

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

13-Jan-22

Run ID GCFID-HP5-B\_220111A

<b>Run Start Date:</b>	1/11/2022
<b>Analyst:</b>	Ann Nebel
<b>Ical:</b>	
<b>Column ID:</b>	
<b>Comments:</b>	ICAL-SW8015C_DRO220111JA.CAL

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL					ICV	11/5/2023
DRO211101A	OTP-4000 ug/mL DCM					OTP-CAL	9/30/2024
DRO211214C	Diesel Fuel #2 50,000 ug/mL in DCM					CCV-CAL	4/30/2023
DRO220102D	ALASKA MARKER-200ug/mL					MARKER	5/31/2022

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist						
14976981	CCV_0111HP50	HC-8015-DRO-	CCV		1/11/2022 8:59:2	1	R373149		0	0							
<b>Analyte</b>		<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
Total Extractable Hydrocarbons		A	mg/L		3.205893		15	0	0	0.0749	0.3	50	21%	80	120	0%	S
o-Terphenyl		S	mg/L		0.1968894		0.2	0	0	0.000429	0.002	0	98%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist						
14976982	CCV_0111HP50	HC-8015-DRO-	CAL1		1/11/2022 10:25:	1	R373149		0	0							
<b>Analyte</b>		<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
o-Terphenyl		S	mg/L		0.00201677		0.002	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						
14976983	CCV_0111HP50	HC-8015-DRO-	CAL2		1/11/2022 11:08:	1	R373149		0	0							
<b>Analyte</b>		<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
o-Terphenyl		S	mg/L		0.0489019		0.05	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					
14976984	CCV_0111HP50	HC-8015-DRO-	CAL3		1/11/2022 11:51:	1	R373149		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.2047389		0.2	0	0	0.000429	0.002	0	102%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14976985	CCV_0111HP50	HC-8015-DRO-	CAL4		1/11/2022 12:34:	1	R373149		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.4884362		0.5	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					
14976986	CCV_0111HP50	HC-8015-DRO-	CAL5		1/11/2022 1:17:0	1	R373149		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		1.013008		1	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					
14976987	CCV_0111HP50	HC-8015-DRO-	CAL1		1/11/2022 1:59:5	1	R373149		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		0.1635249		0.15	0	0	0.0749	0.3	50	109%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14976989	CCV_0111HP51	HC-8015-DRO-	CAL2		1/11/2022 2:42:3	1	R373149		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		3.698293		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					
14976990	CCV_0111HP51	HC-8015-DRO-	CAL3		1/11/2022 3:25:2	1	R373149		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		14.75864		15	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					
14976991	CCV_0111HP51	HC-8015-DRO-	CAL4		1/11/2022 4:08:0	1	R373149		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		36.29137		37.5	0	0	0.0749	0.3	50	97%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14976992	CCV_0111HP51	HC-8015-DRO-	CAL5		1/11/2022 4:51:0	1	R373149		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		48.59718		50	0	0	0.0749	0.3	50	97%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14976993	CCV_0111HP51	HC-8015-DRO-	ICV		1/11/2022 5:34:2	1	R373149		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		14.05379		15	0	0	0.0749	0.3	50	94%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP5\DAT\HP5011122_b\0111HP5.01r	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.02r	CCV_0111HP502r, DRO ;0111HP5 , DRO220102D	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.03r	DCM-Baseline Check-V03	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.04r	CCV_0111HP504r, CAL1 ;0111HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.05r	CCV_0111HP505r, CAL2 ;0111HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.06r	CCV_0111HP506r, CAL3 ;0111HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.07r	CCV_0111HP507r, CAL4 ;0111HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.08r	CCV_0111HP508r, CAL5 ;0111HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.09r	CCV_0111HP509r, CAL1 ;0111HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(14647), then 100 uL of that + 100 uL of DCM (14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.10r	CCV_0111HP510r, CAL2 ;0111HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.11r	CCV_0111HP511r, CAL3 ;0111HP5 , 15000 ug per mL Diesel (300 uL of DRO211214C + 700 uL DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.12r	CCV_0111HP512r, CAL4 ;0111HP5 , 37500ug per mL Diesel (750 uL of DRO211214C + 250 uL DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.13r	CCV_0111HP513r, CAL5 ;0111HP5 , 50000 ug per mL Diesel (200 uL of DRO211214C)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122_b\0111HP5.14r	CCV_0111HP514r, Second Source ;0111HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0

File Name: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL

Version: 12

Creator: AMN 01/13/2022

Description: 8015C-DRO. New ICal Per 0111HP5 (2022)-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

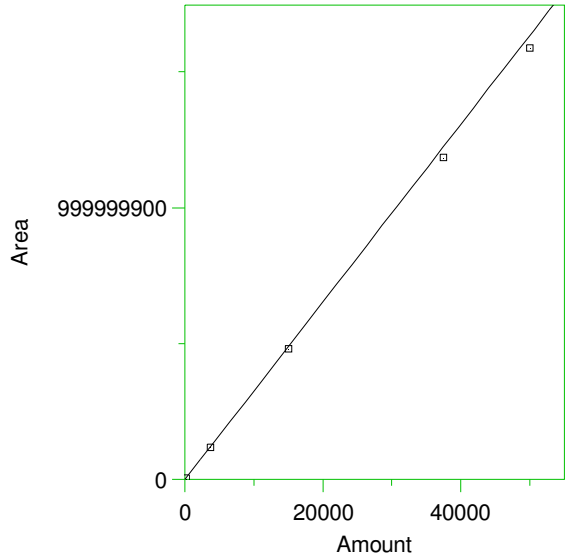
No default component

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: 6.68 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

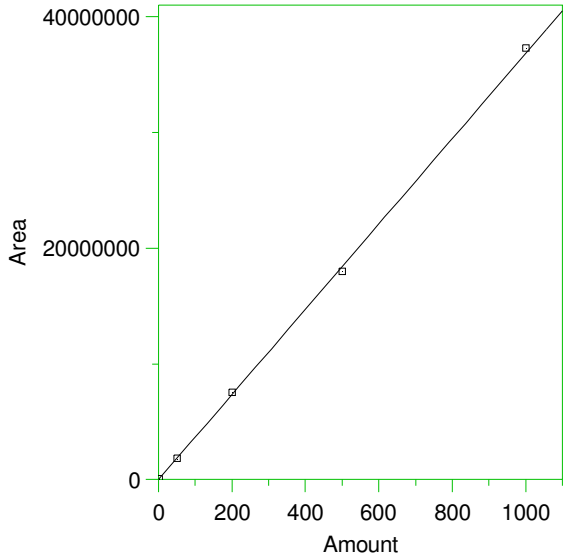
Single peak quantification by area

$Y = 32675.36 X + 0$

Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9980255  
 Average error: 3.607%  
 Average CF: 32675.36  
 RSD: 5.100%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	5343235	35621.57	9.017	Manual	1/13/2022 12:28:36 PM
2	3750	1.20843E+08	32224.8	-1.379	Manual	1/13/2022 12:29:11 PM
3	15000	4.82244E+08	32149.6	-1.609	Manual	1/13/2022 12:29:24 PM
4	37500	1.185834E+09	31622.24	-3.223	Manual	1/13/2022 12:29:37 PM
5	50000	1.58793E+09	31758.6	-2.806	Manual	1/13/2022 12:28:57 PM

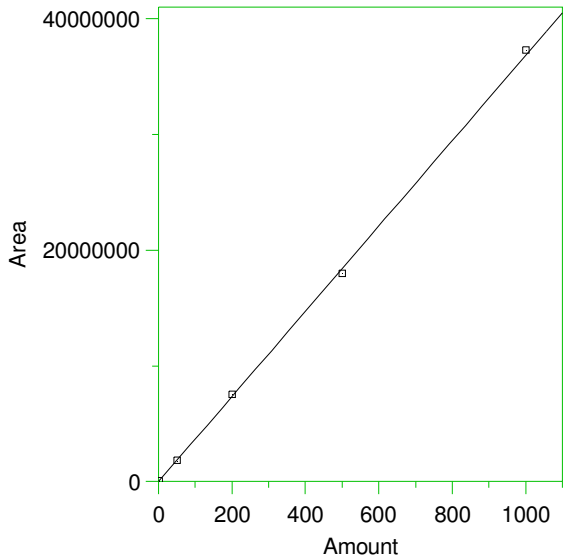
2 \*o-Terphenyl



Expected retention time: 12.35 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  
 $Y = 36857.86 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9995278  
 Average error: 1.804%  
 Average CF: 36857.86  
 RSD: 2.132%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	74333.97	37166.98	0.839	G:\Org\HP5\DAT\HP5011122_b\0111HP5.0004.BND	1/13/2022 12:27:15 PM
2	50	1802420	36048.4	-2.196	G:\Org\HP5\DAT\HP5011122_b\0111HP5.0005.BND	1/13/2022 12:27:23 PM
3	200	7546240	37731.2	2.369	G:\Org\HP5\DAT\HP5011122_b\0111HP5.0006.BND	1/13/2022 12:27:28 PM
4	500	1.800271E+07	36005.42	-2.313	G:\Org\HP5\DAT\HP5011122_b\0111HP5.0007.BND	1/13/2022 12:27:34 PM
5	1000	3.733731E+07	37337.31	1.301	G:\Org\HP5\DAT\HP5011122_b\0111HP5.0008.BND	1/13/2022 12:27:40 PM

3 \*1-Chlorooctadecane



Expected retention time: 13.16 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 = 36857.86 X + 0  
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9995278  
 Average error: 1.804%  
 Average CF: 36857.86  
 RSD: 2.132%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	74333.97	37166.98	0.839	Manual	1/13/2022 12:27:45 PM
2	50	1802420	36048.4	-2.196	Manual	1/13/2022 12:27:47 PM
3	200	7546240	37731.2	2.369	Manual	1/13/2022 12:27:49 PM
4	500	1.800271E+07	36005.42	-2.313	Manual	1/13/2022 12:27:51 PM
5	1000	3.733731E+07	37337.31	1.301	Manual	1/13/2022 12:27:53 PM



Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
		DCM-Baseline Check-V01	G:\Org\HP5-Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integration
		CCV_0111HP502r, DRO ;0111HP5 , DRO220102D	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	No Integration
		DCM-Baseline Check-V03	G:\Org\HP5-Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integration
		CCV_0111HP504r, CAL1 ;0111HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14647)	G:\Org\HP5-Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP505r, CAL2 ;0111HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5-Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP506r, CAL3 ;0111HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14647)	G:\Org\HP5-Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP507r, CAL4 ;0111HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14647)	G:\Org\HP5-Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP508r, CAL5 ;0111HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14647)	G:\Org\HP5-Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP509r, CAL1 ;0111HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(14647), then 100 uL of that + 100 uL of DCM (14647))	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP510r, CAL2 ;0111HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP511r, CAL3 ;0111HP5 , 15000 ug per mL Diesel (300 uL of DRO211214C + 700 uL DCM(14647)	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP512r, CAL4 ;0111HP5 , 37500ug per mL Diesel (750 uL of DRO211214C + 250 uL DCM(14647)	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP513r, CAL5 ;0111HP5 , 50000 ug per mL Diesel (200 uL of DRO211214C)	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP514r, Second Source ;0111HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14647)	G:\Org\HP5-Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.

*Ann Nebel*

Digitally signed by  
Ann Nebel  
Date: 2022.02.11 10:29:19 -07:00

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
		DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integration
		CCV_0111HP502r, DRO ;0111HP5 , DRO220102D	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	No Integration
		DCM-Baseline Check-V03	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integration
		CCV_0111HP504r, CAL1 ;0111HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP505r, CAL2 ;0111HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP506r, CAL3 ;0111HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP507r, CAL4 ;0111HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP508r, CAL5 ;0111HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14647)	G:\Org\HP5\Methods\DS_8015-JA-L#.met	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes.
		CCV_0111HP509r, CAL1 ;0111HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(14647), then 100 uL of that + 100 uL of DCM (14647))	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP510r, CAL2 ;0111HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP511r, CAL3 ;0111HP5 , 15000 ug per mL Diesel (300 uL of DRO211214C + 700 uL DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP512r, CAL4 ;0111HP5 , 37500ug per mL Diesel (750 uL of DRO211214C + 250 uL DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP513r, CAL5 ;0111HP5 , 50000 ug per mL Diesel (200 uL of DRO211214C)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.
		CCV_0111HP514r, Second Source ;0111HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14647)	G:\Org\HP5\Methods\DC_8015-JA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes.

*Ann Nebel*

Digitally signed by  
Ann Nebel  
Date: 2022.02.11 10:29:19 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

14-Jan-22

Run ID GCFID-HP5-B\_220111C

<b>Run Start Date:</b> 1/11/2022
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> ICAL- SW8015C_ORO220111BA.CAL with Triacontane

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO210902A	50,000 ug/mL Oil Std for RRO-In DCM					ICV	9/1/2026
DRO211006A	Triacontane SURR 2000 ug/mL					CAL-SURR	4/6/2026
DRO211118A	50,000 ug/mL Oil Std For AK103 RRO-In DCM					CAL-ORO	10/31/2028

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14977288	CCV_0111HP52	HC-8015-DRO-	CAL1		1/12/2022 3:39:1	1	R373160		0	0						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
n-Triacontane	S	mg/L		0.00190245		0.002	0	0	0.000336	0.002	0	95%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14977289	CCV_0111HP52	HC-8015-DRO-	CAL2		1/12/2022 4:22:1	1	R373160		0	0						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
n-Triacontane	S	mg/L		0.04984459		0.05	0	0	0.000336	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					
14977290	CCV_0111HP53	HC-8015-DRO-	CAL3		1/12/2022 5:05:2	1	R373160		0	0						
<b>Analyte</b>	<b>T</b>	<b>Units</b>	<b>RAW</b>	<b>Final</b>	<b>Text</b>	<b>Spike</b>	<b>SPKref</b>	<b>RPDref</b>	<b>MDL</b>	<b>PQL</b>	<b>UQL</b>	<b>%REC</b>	<b>LOW</b>	<b>HIGH</b>	<b>%RPD</b>	<b>Q</b>
n-Triacontane	S	mg/L		0.2024053		0.2	0	0	0.000336	0.002	0	101%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14977291	CCV_0111HP53	HC-8015-DRO-	CAL4		1/12/2022 5:48:3	1	R373160		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.5035697		0.5	0	0	0.000336	0.002	0	101%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14977292	CCV_0111HP55	HC-8015-DRO-	CAL5		1/12/2022 8:49:5	1	R373160		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		1.032718		1	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					
14977293	CCV_0111HP55	HC-8015-DRO-	CAL1		1/13/2022 3:06:1	1	R373160		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		0.15954587		0.15	0	0	0.0879	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					
14977294	CCV_0111HP55	HC-8015-DRO-	CAL2		1/13/2022 4:31:3	1	R373160		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		1.03294141		1	0	0	0.0879	0.3	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					
14977295	CCV_0111HP55	HC-8015-DRO-	CAL3		1/13/2022 5:57:4	1	R373160		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		4.9326875		5	0	0	0.0879	0.3	0	99%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14977296	CCV_0111HP56	HC-8015-DRO-	CAL4		1/13/2022 7:24:1	1	R373160		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		14.328667		15	0	0	0.0879	0.3	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					
14977297	CCV_0111HP56	HC-8015-DRO-	CAL5		1/13/2022 8:50:3	1	R373160		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		28.7914395		30	0	0	0.0879	0.3	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					
14977298	CCV_0111HP56	HC-8015-DRO-	ICV		1/14/2022 8:18:1	0	R373160		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		5.07699902		5	0	0	0	0.3	0	102%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP5\DAT\HP5011122 b\0111HP5.25r	DCM-Baseline Check-V25	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.26r	Marker_0111HP526r, DRO :0111HP5 , DRO220111A	G:\org\HP5\Methods\CSC210212.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.27r	DCM-Baseline Check-V27	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.28r	CCV_0111HP528r, CAL1 :0111HP5 , 2 ug per mL Triacotane (10 uL of Cal3 + 990 uL DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.29r	CCV_0111HP529r, CAL2 :0111HP5 , 50 ug per mL Triacotane (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.30r	CCV_0111HP530r, CAL3 :0111HP5 , 200 ug per mL Triacotane (100uL of Cal5 + 400 uL DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.31r	CCV_0111HP531r, CAL4 :0111HP5 , 500 ug per mL Triacotane (250uL of Cal5 + 250 uL DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.32r	DCM-Baseline Check-V32	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.50r	CCV_0111HP550r, CAL5 :0111HP5 , 1000 ug per mL Triacotane (DRO211006A)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.51r	DCM-Baseline Check-V51	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.52r	DCM-Baseline Check-V52	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.53r	Marker_0111HP553r, DRO :0111HP5 , DRO220111A	G:\org\HP5\Methods\CSC210212.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.54r	DCM-Baseline Check-V54	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.55r	CCV_0111HP555r, CAL1 :0111HP5 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-55-BA-L%.xls	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.56r	DCM-Baseline Check-V56	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.57r	CCV_0111HP557r, CAL2 :0111HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-57-BA-L%.xls	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.58r	DCM-Baseline Check-V58	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.59r	CCV_0111HP559r, CAL3 :0111HP5 , 5000 ug per mL Oil (100 uL of DRO211118A + 900 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-59-BA-L%.xls	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.60r	DCM-Baseline Check-V60	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.61r	CCV_0111HP561r, CAL4 :0111HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-61-BA-L%.xls	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.62r	DCM-Baseline Check-V62	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.63r	CCV_0111HP563r, CAL5 :0111HP5 , 30000 ug per mL Oil (600 uL of DRO211118A + 400 uL of DCM)	G:\Org\HP5\Methods\DC_ORO-BA-L%.xls	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.64r	DCM-Baseline Check-V64	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.65r	DCM-Baseline Check-V65	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.66r	DCM-Baseline Check-V66	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.68r	DCM-Baseline Check-V68	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0
	G:\org\HP5\DAT\HP5011122 b\0111HP5.69r	CCV_0111HP567r, Second Source :0111HP5 , 5000 ug per mL (100uL of DRO210902A + 900uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-59-BA-L%.xls	1	1	1	1	0

File Name: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL

Version: 11

Creator: AMN

Description: 8015C-Oil Range with Triacontane. New ICal Per 0111HP5,(2022)-2 uL Inj.;

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

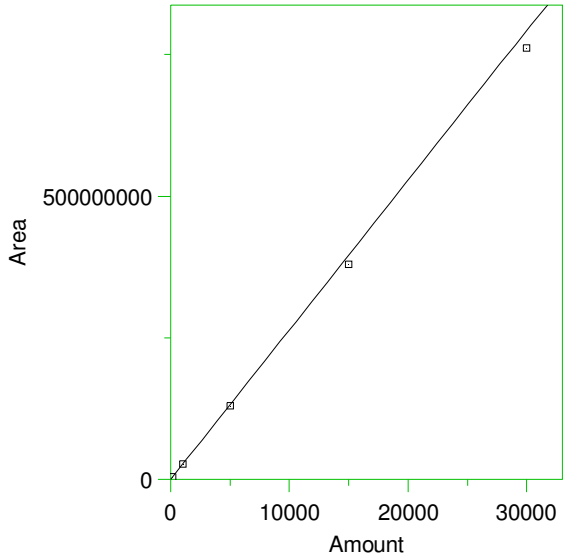
No default component

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

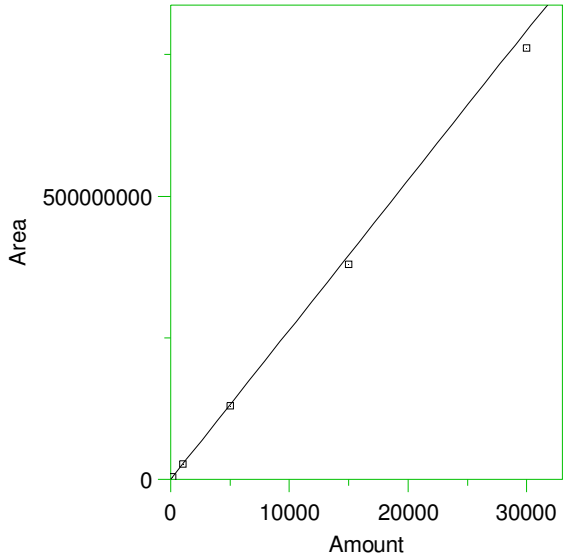
$Y = 26424.55 X + 0$

Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9969108  
 Average error: 3.495%  
 Average CF: 26424.55  
 RSD: 4.293%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	4177025	27846.83	5.382	Manual	1/14/2022 7:51:42 AM
2	1000	2.73111E+07	27311.1	3.355	Manual	1/14/2022 8:05:40 AM
3	5000	1.313247E+08	26264.94	-0.604	Manual	1/14/2022 8:05:24 AM
4	15000	3.796282E+08	25308.55	-4.223	Manual	1/14/2022 8:05:07 AM
5	30000	7.617404E+08	25391.35	-3.910	Manual	1/14/2022 8:04:35 AM



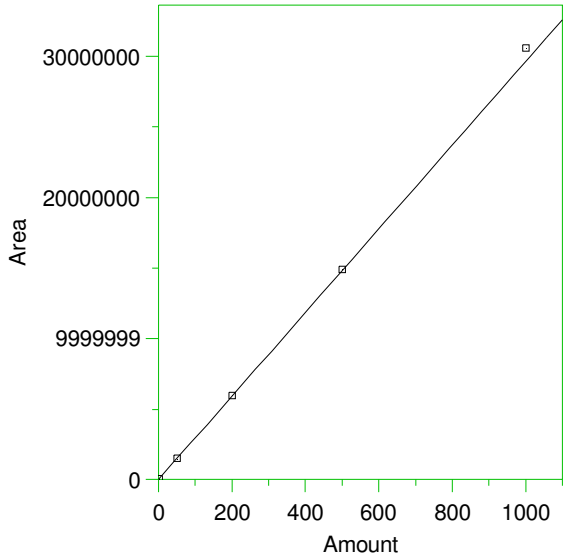
2 #C20



Expected retention time: 12.56 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 = 26424.55 X + 0  
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9969108  
 Average error: 3.495%  
 Average CF: 26424.55  
 RSD: 4.293%

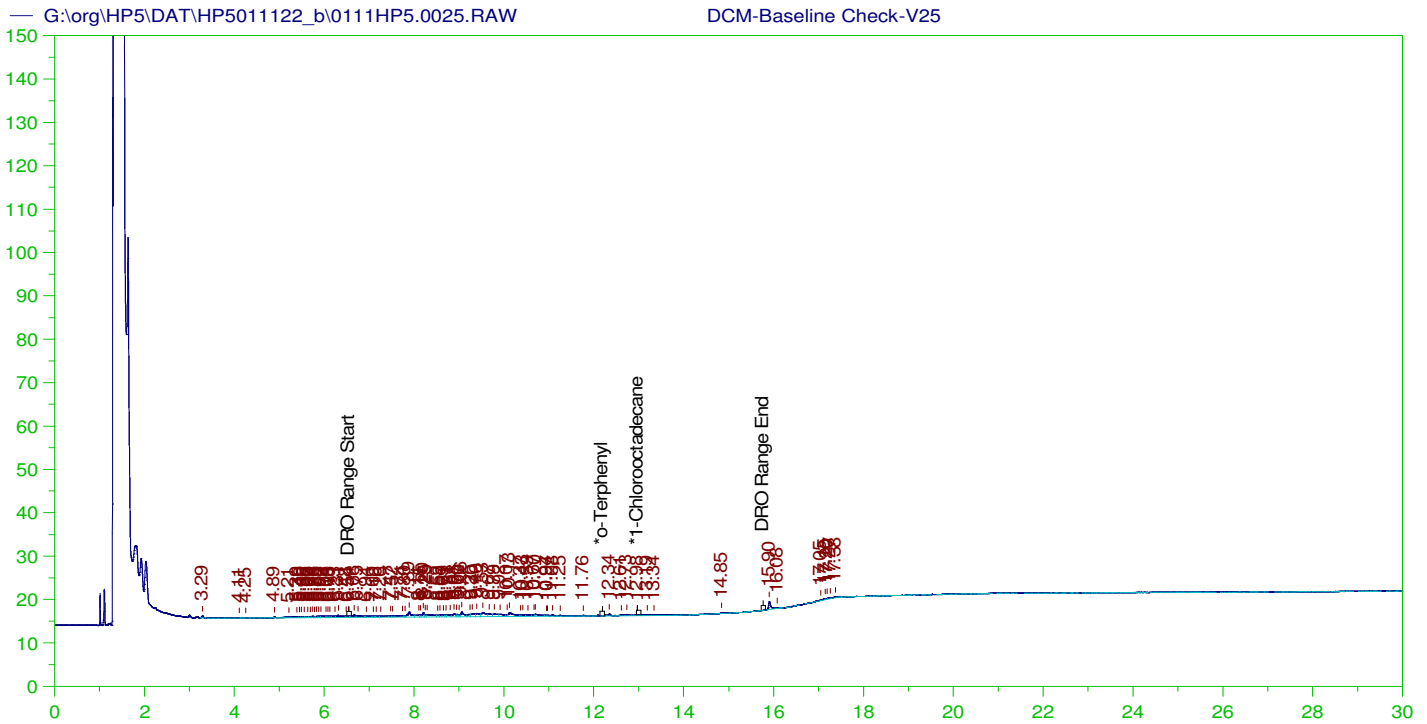
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	4177025	27846.83	5.382	Manual	1/14/2022 8:06:03 AM
2	1000	2.73111E+07	27311.1	3.355	Manual	1/14/2022 8:06:05 AM
3	5000	1.313247E+08	26264.94	-0.604	Manual	1/14/2022 8:06:06 AM
4	15000	3.796282E+08	25308.55	-4.223	Manual	1/14/2022 8:06:11 AM
5	30000	7.617404E+08	25391.35	-3.910	Manual	1/14/2022 8:06:13 AM

3 \*#Triacontane



Expected retention time: 16.44 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 = 29636.1 X + 0  
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9984925  
 Average error: 2.075%  
 Average CF: 29636.1  
 RSD: 3.023%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	56381.2	28190.6	-4.878	Manual	1/13/2022 12:38:47 PM
2	50	1477199	29543.98	-0.311	Manual	1/13/2022 12:38:50 PM
3	200	5998503	29992.52	1.203	Manual	1/13/2022 12:38:53 PM
4	500	1.492384E+07	29847.68	0.714	Manual	1/13/2022 12:38:56 PM
5	1000	3.060573E+07	30605.73	3.272	Manual	1/13/2022 12:39:03 PM



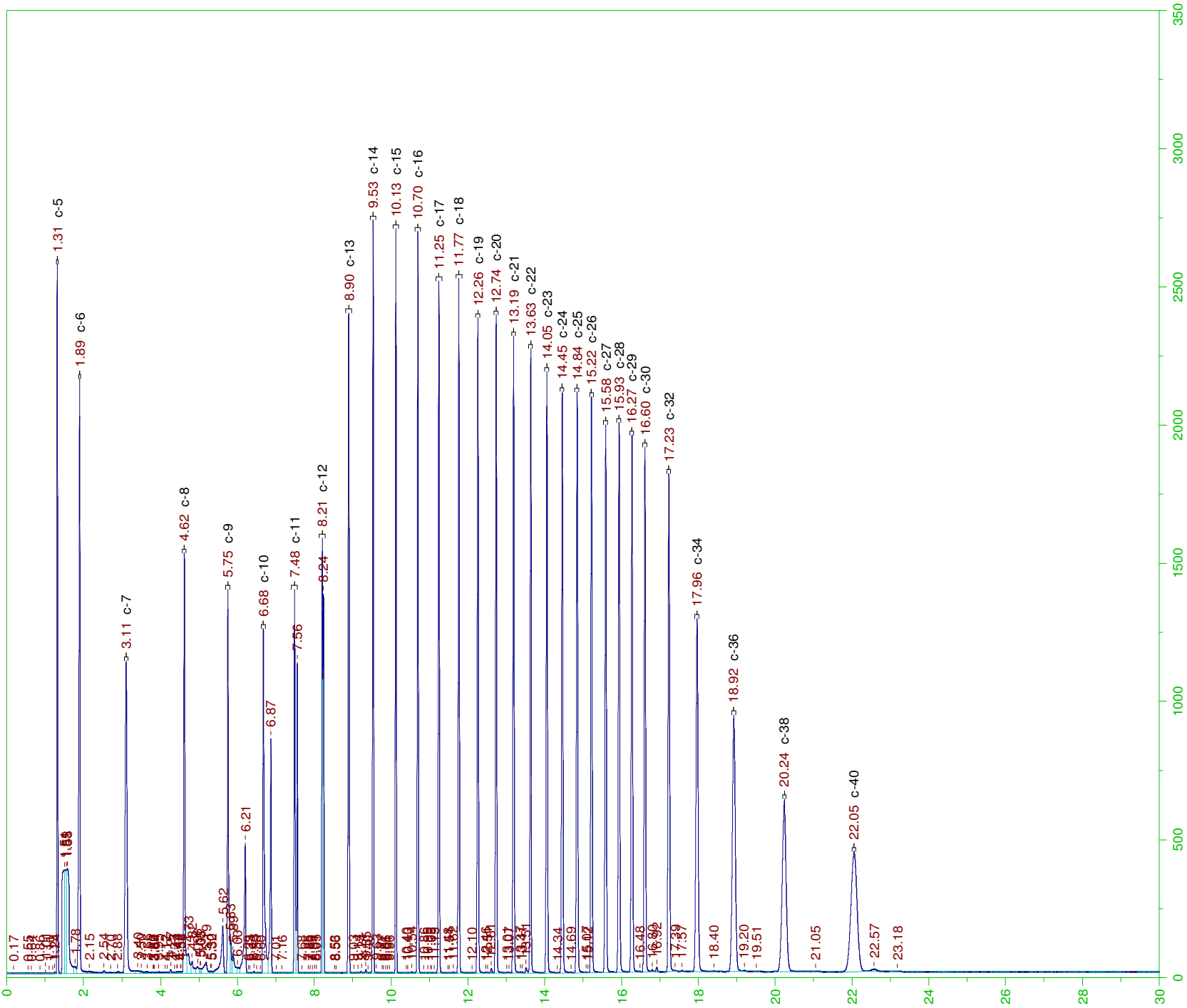
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

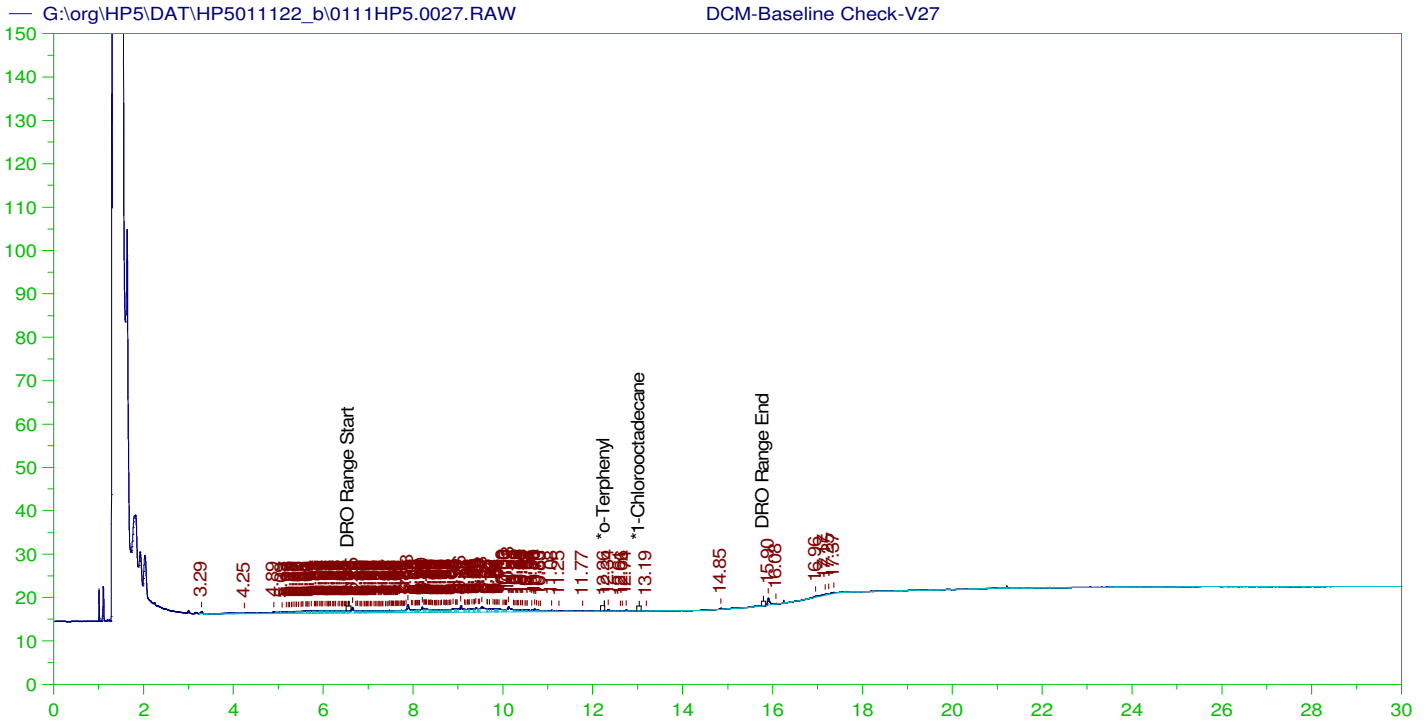
Sample Name: DCM-Baseline Check-V25  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0025.RAW  
 Date & Time Acquired: 1/12/2022 1:29:46 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-IC-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	29.899	200.	.	-
*1-Chlorooctadecane	12.975	200.	.017	.01

DRO Area:132028.6 DRO Amount: 4.211011  
 TEH Area:186308.4 TEH Amount: 5.942247





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V27  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0027.RAW  
 Date & Time Acquired: 1/12/2022 2:56:04 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HS-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108Hs.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

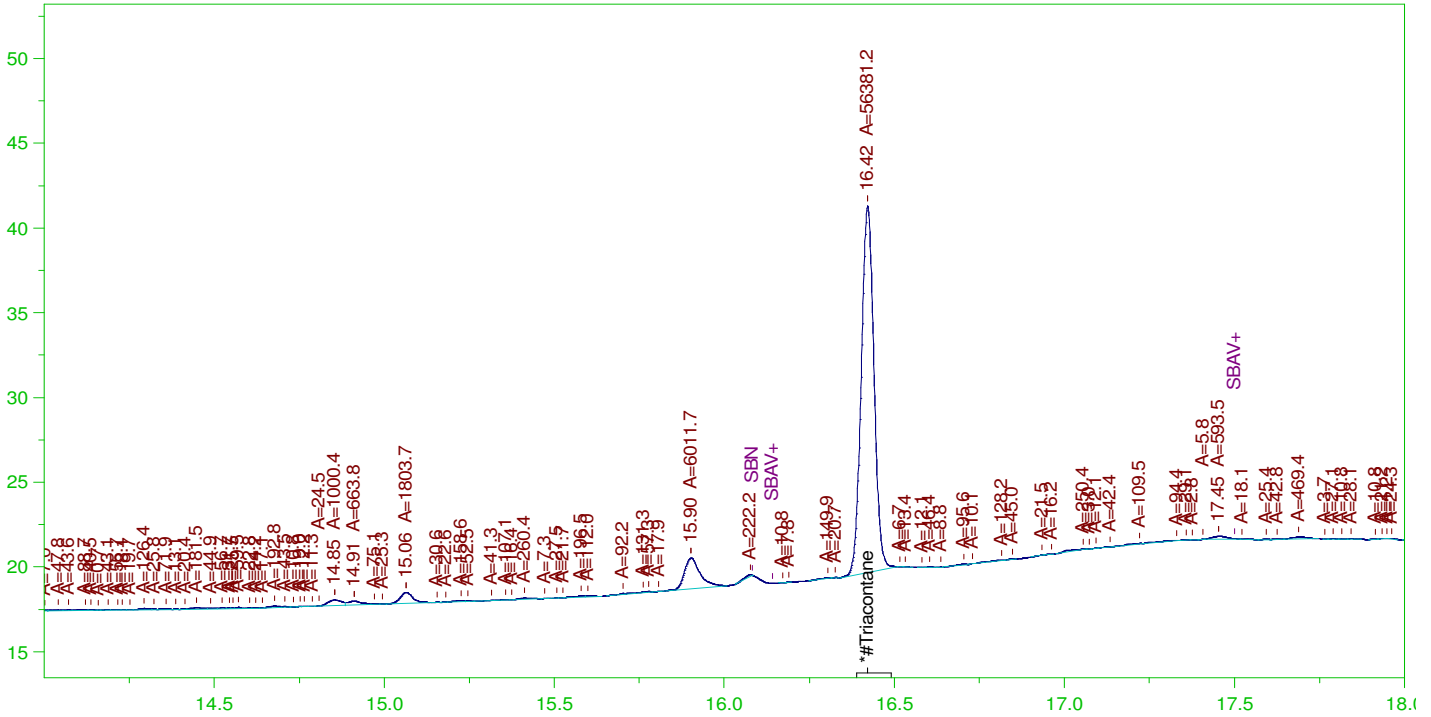
Mean RF for TEH: 29457.33  
 Rt range for Diesel Range Organics: 6.51 to 15.85

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.261	200.	.017	.01
*1-Chlorooctadecane	29.983	200.	.	.

DRO Area:193795.7 DRO Amount: 6.578862  
 TEH Area:272770 TEH Amount: 9.259835

G:\Org\HP5\DAT\HP5011122\_b\0111HP5.0028.RAW

CCV\_0111HP528r, CAL1 ;0111HP5 , 2 ug per mL Triacontane



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP528r, CAL1 ;0111HP5 , 2 ug per mL Triacontane  
 Raw File: G:\Org\HP5\DAT\HP5011122\_b\0111HP5.0028.RAW  
 Date & Time Acquired: 1/12/2022 3:39:11 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111ba.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	16.421	500.	1.902	.38

RRO Area:11465.21 RRO AMOUNT: 0.4016902

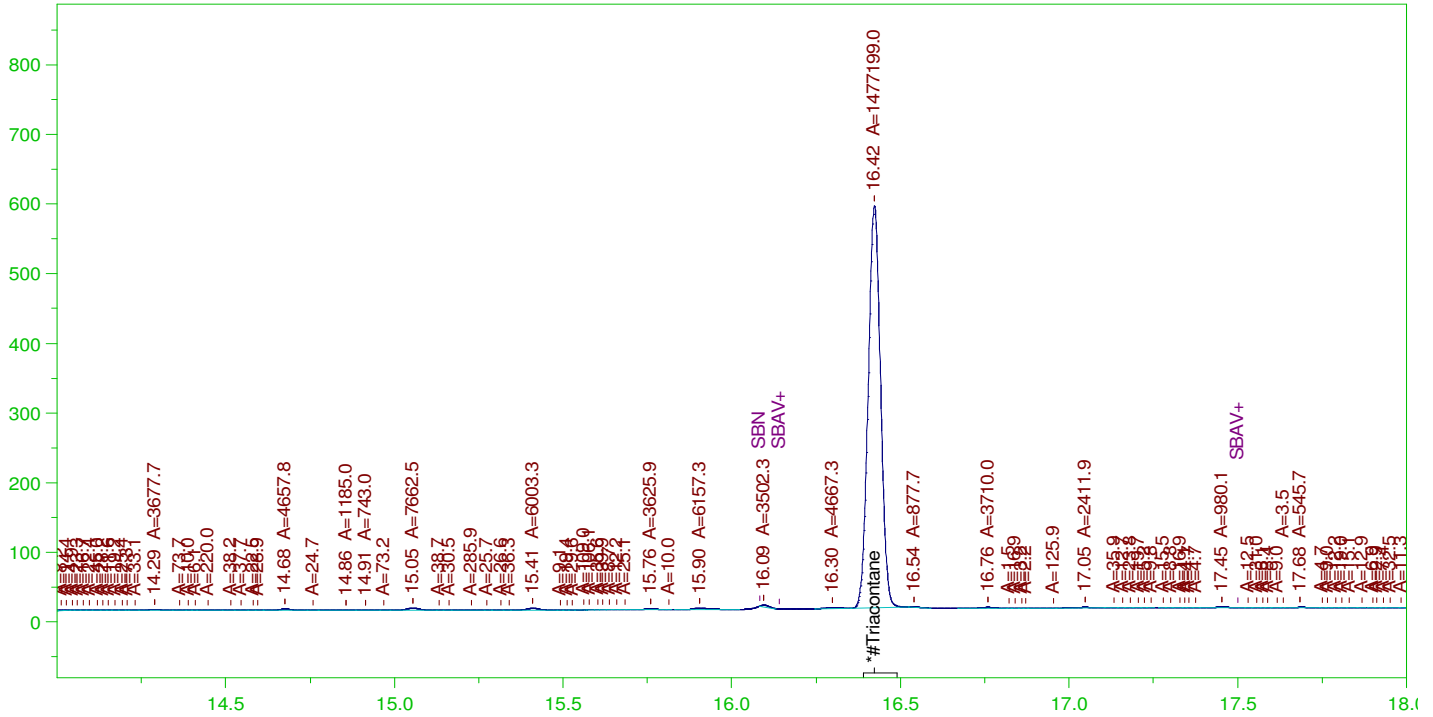
CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5011122\_b\0111HP5.0028.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.056	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.421	200.	1.902	.95	75-125

G:\org\HP5\DAT\HP5011122\_b\0111HP5.0029.RAW

CCV\_0111HP529r, CAL2 ;0111HP5 , 50 ug per mL Triacontane



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP529r, CAL2 ;0111HP5 , 50 ug per mL Triacontane  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0029.RAW  
 Date & Time Acquired: 1/12/2022 4:22:15 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111ba.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

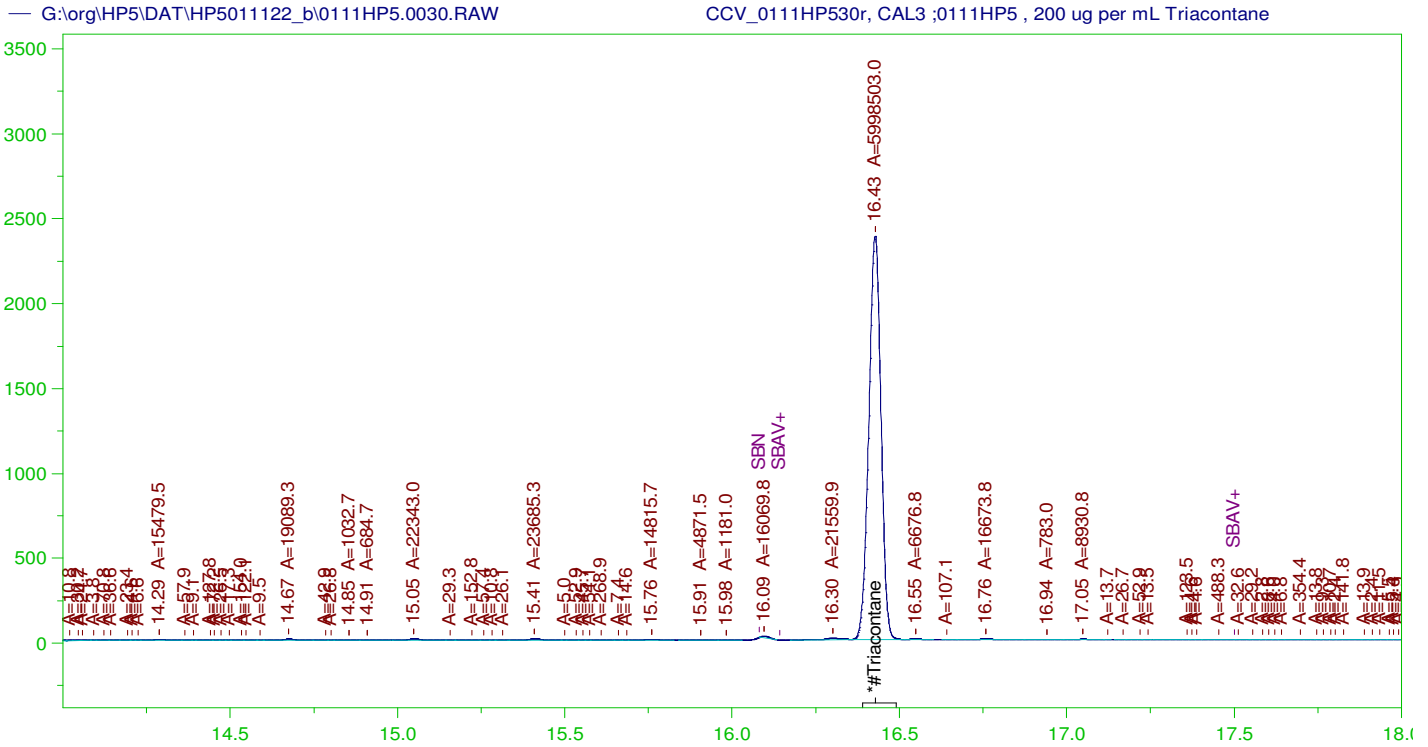
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.423	500.	49.845	9.97	-

RRO Area:60154.51 RRO AMOUNT: 2.107548

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0029.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.423	200.	49.845	24.92	75-125



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP530r, CAL3 ;0111HP5 , 200 ug per mL Triacontane  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0030.RAW  
 Date & Time Acquired: 1/12/2022 5:05:25 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111ba.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	16.427	500.	202.405	40.48	-

RRO Area:200104.8 RRO AMOUNT: 7.01079

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0030.RAW

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

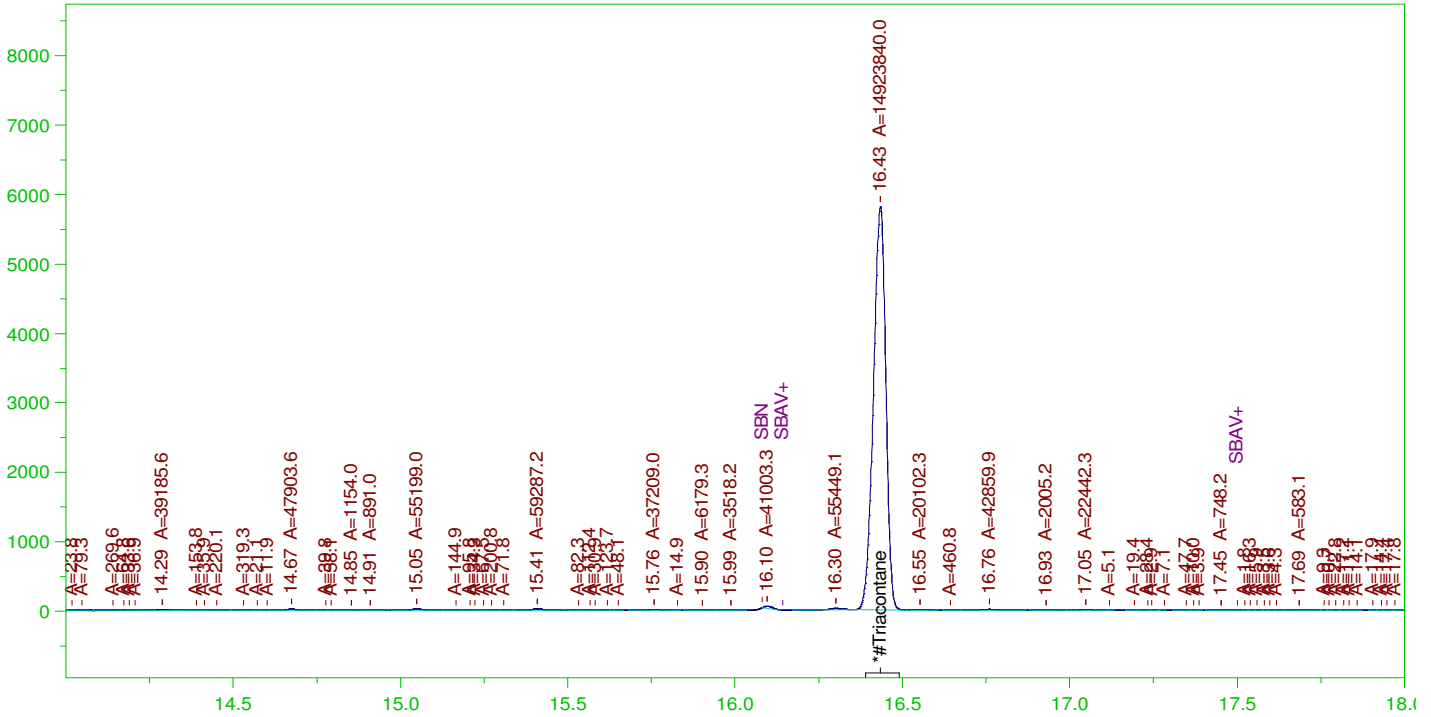
  

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.427	200.	202.405	101.2	75-125



G:\org\HP5\DAT\HP5011122\_b\0111HP5.0031.RAW

CCV\_0111HP531r, CAL4 ;0111HP5 , 500 ug per mL Triacontane



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP531r, CAL4 ;0111HP5 , 500 ug per mL Triacontane  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0031.RAW  
 Date & Time Acquired: 1/12/2022 5:48:34 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111ba.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

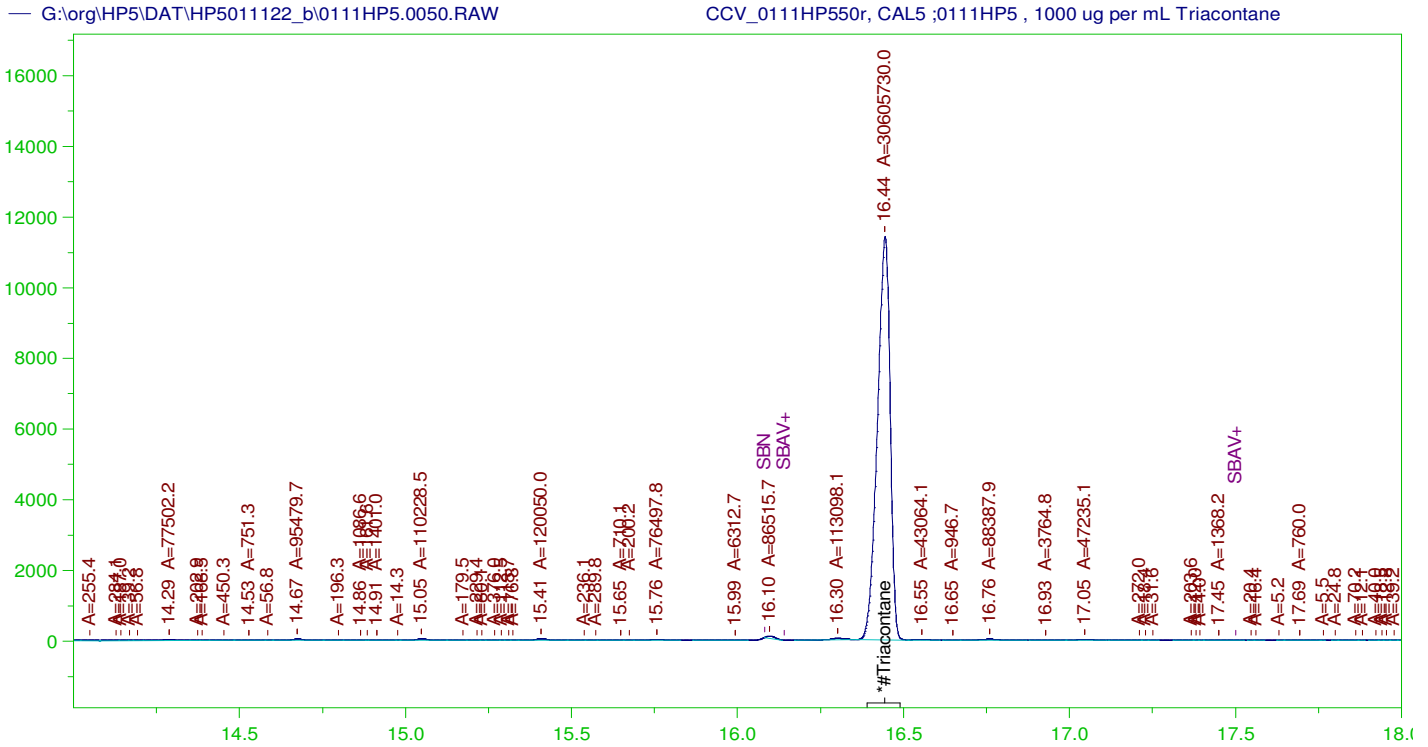
Mean RF for for Residual Range Organics Calculations: 28542.41  
 Rt range for Residual Range Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.434	500.	503.57	100.71	-

RRO Area:497882.9 RRO AMOUNT: 17.44362

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0031.RAW  
 COMPOUND ACTUAL (NG) MEASURED (NG) %RECOVERY LIMITS  
 \*30-40 Motor Oil 5000. . . 75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.434	200.	503.57	251.78	75-125



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP550r, CAL5 ;0111HP5 , 1000 ug per mL Triacontane  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0050.RAW  
 Date & Time Acquired: 1/12/2022 8:49:58 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111ba.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

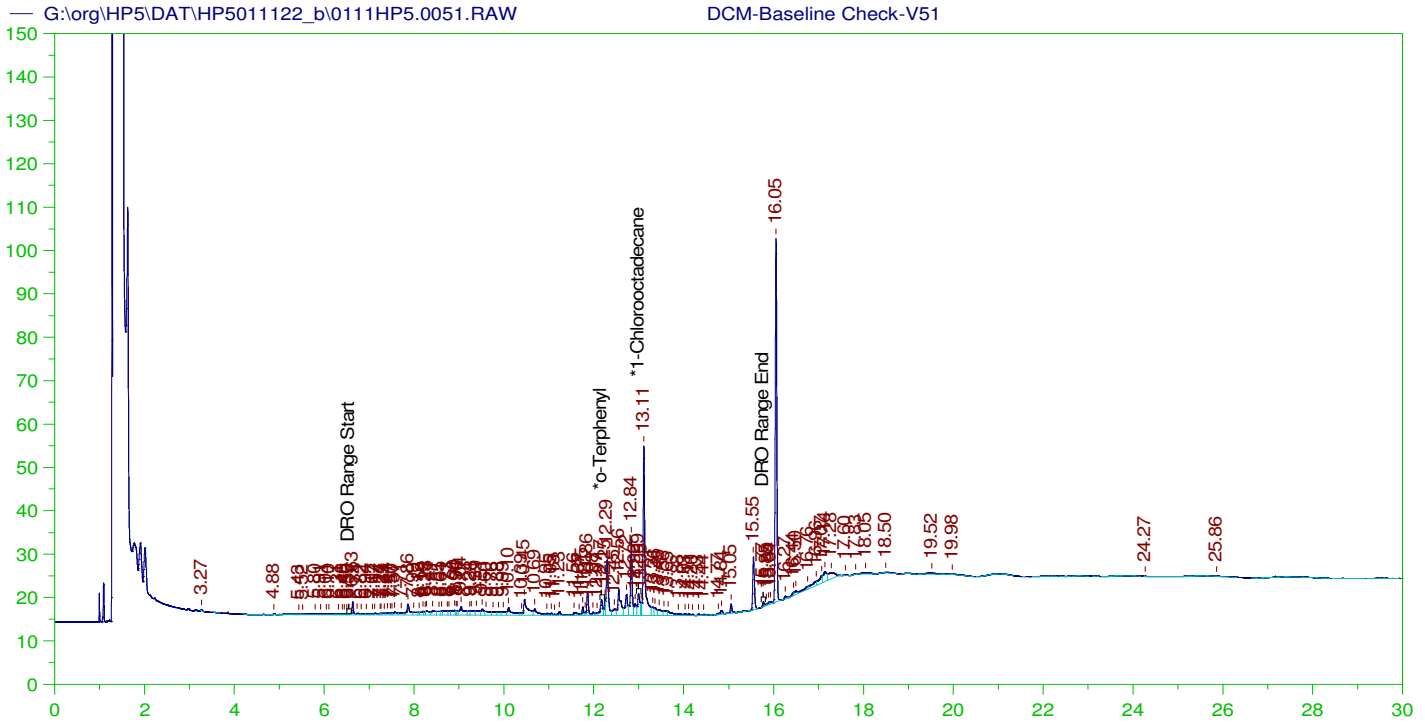
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.444	500.	1032.718	206.54

RRO Area:993904.8 RRO AMOUNT: 34.82203

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0050.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.444	200.	1032.718	516.36	75-125



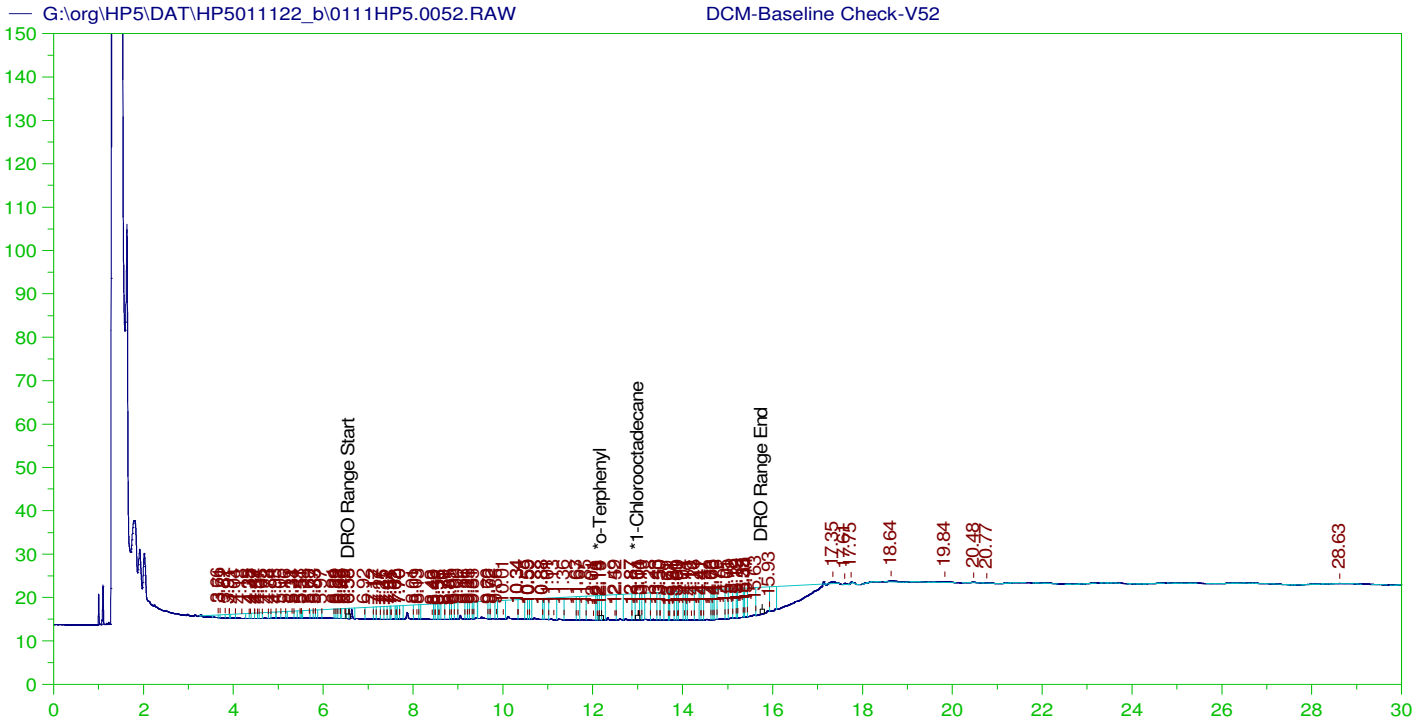
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V51  
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 Date & Time Acquired: 1/13/2022 12:15:29 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	12.166	200.	.369	.18	-
*1-Chlorooctadecane	12.994	200.	.464	.23	-

DRO Area: 587062.5 DRO Amount: 18.72417  
 TEH Area: 891448.4 TEH Amount: 28.43246



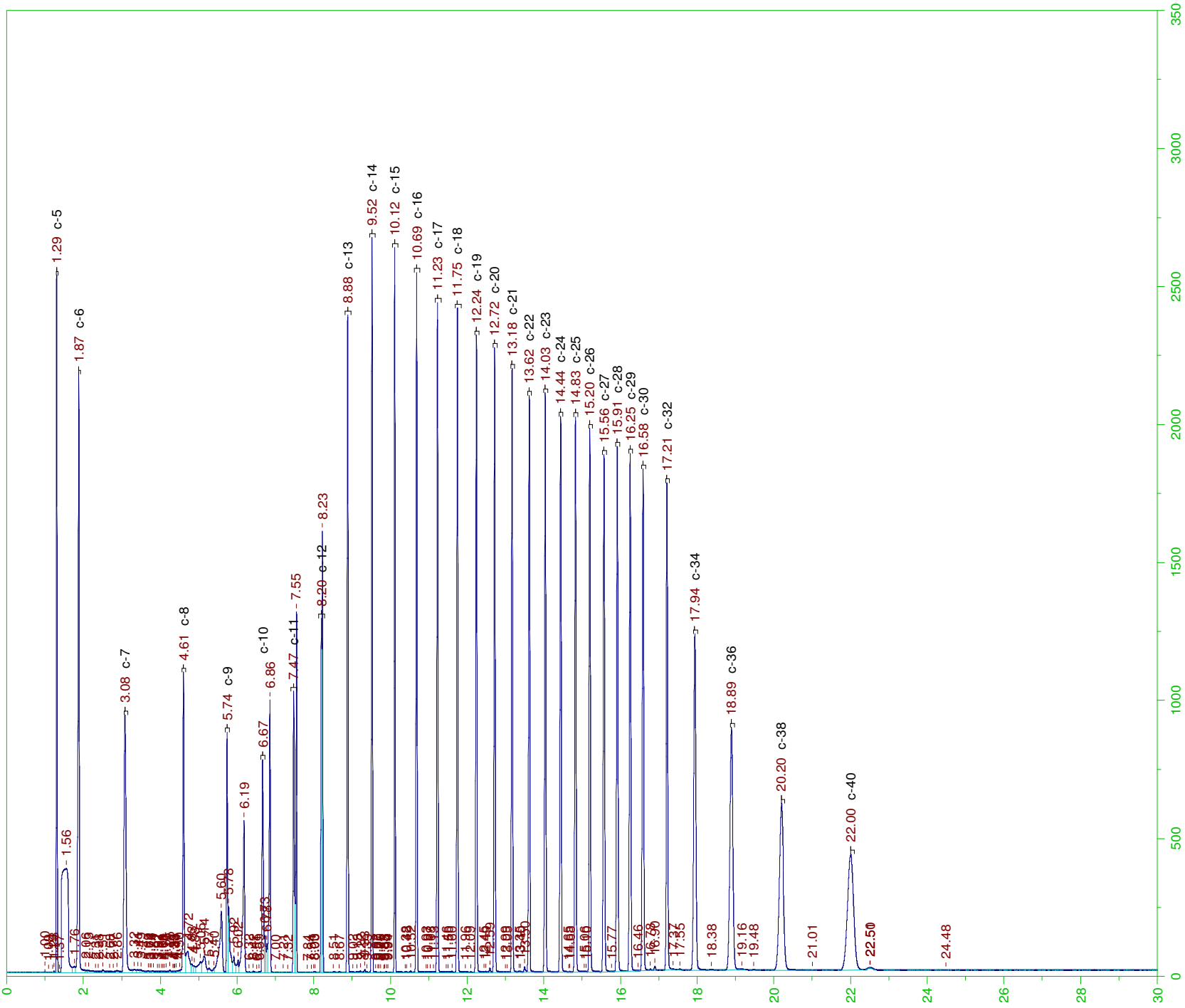
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

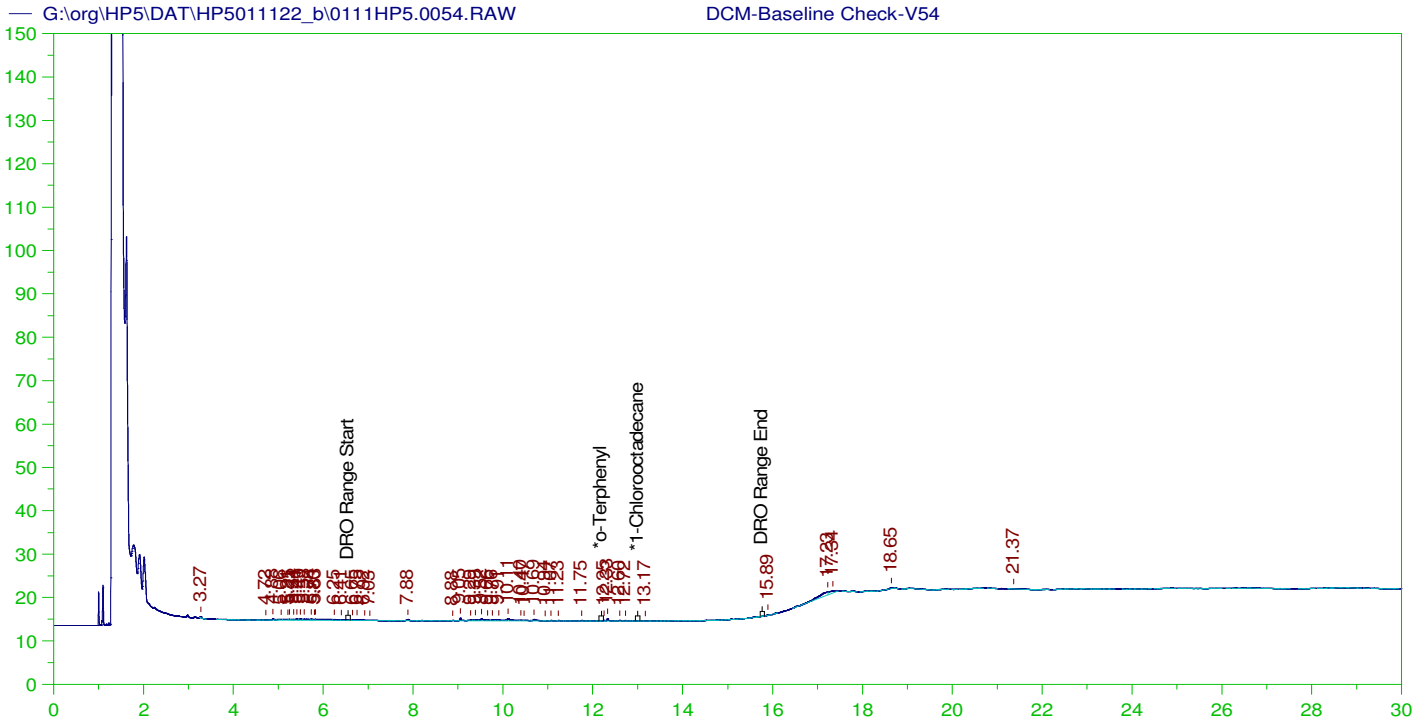
Sample Name: DCM-Baseline Check-V52  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0052.RAW  
 Date & Time Acquired: 1/13/2022 12:58:31 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-IC-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO211102IC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.192	200.	.855	.43	-
*1-Chlorooctadecane	13.007	200.	.955	.48	-

DRO Area:2710300 DRO Amount: 86.44414  
 TEH Area:2842315 TEH Amount: 90.65472





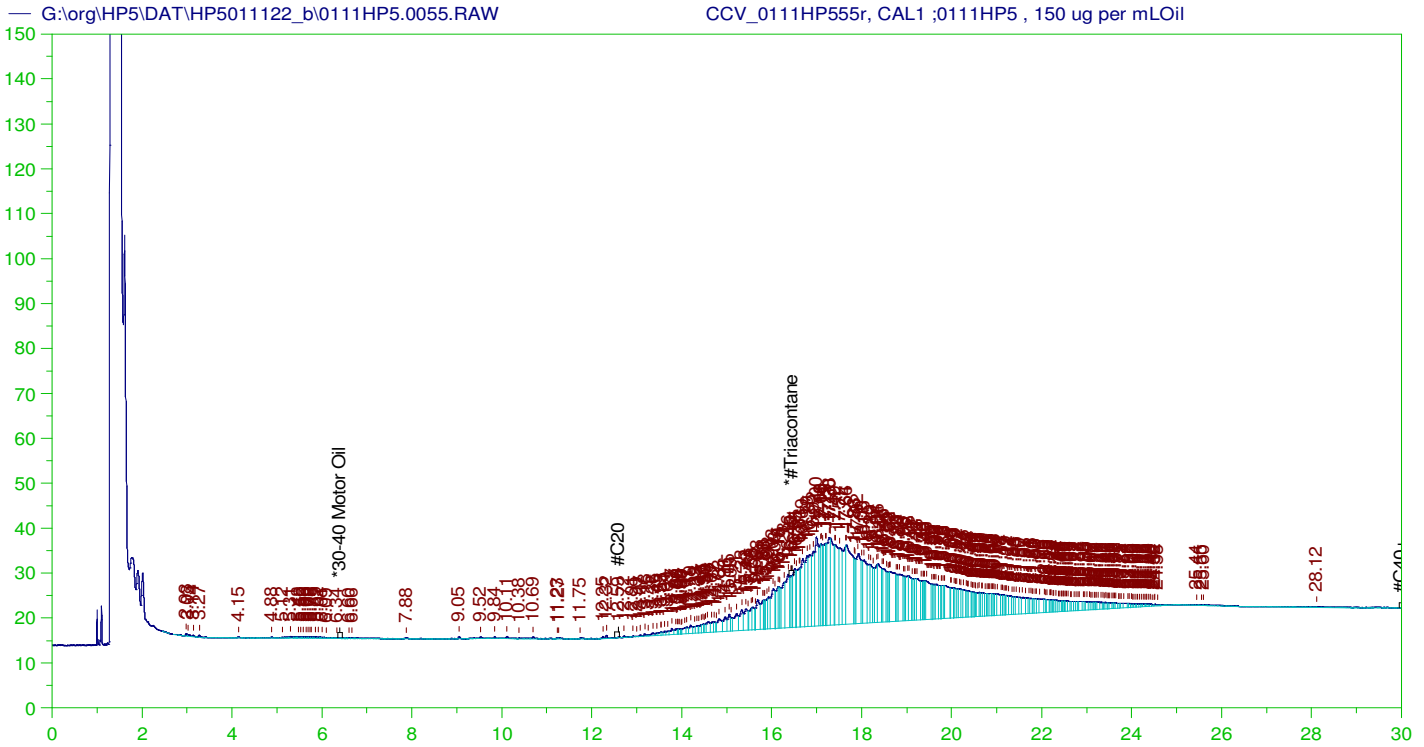
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V54  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0054.RAW  
 Date & Time Acquired: 1/13/2022 2:23:42 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	29.882	200.	.	-
*1-Chlorooctadecane	29.882	200.	.	-

DRO Area:44798.44 DRO Amount: 1.428832  
 TEH Area:97771.24 TEH Amount: 3.118382



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP555r, CAL1 ;0111HP5 , 150 ug per mL Oil  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0055.RAW  
 Date & Time Acquired: 1/13/2022 3:06:11 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-55-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.51 to 30.05

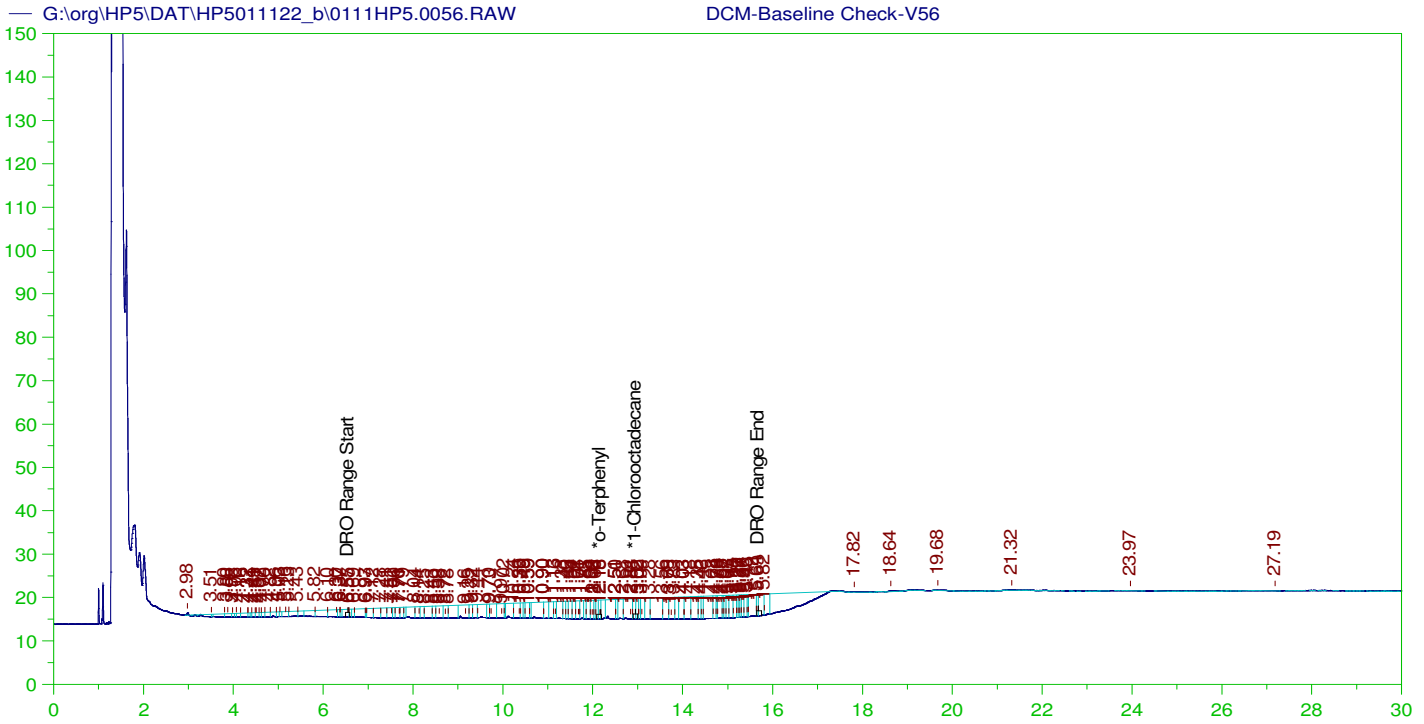
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.447	500.	.47	.09	-

RRO Area: 4215928 RRO AMOUNT: 159.5459

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0055.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.447	200.	.47	.23	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V56  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0056.RAW  
 Date & Time Acquired: 1/13/2022 3:48:53 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

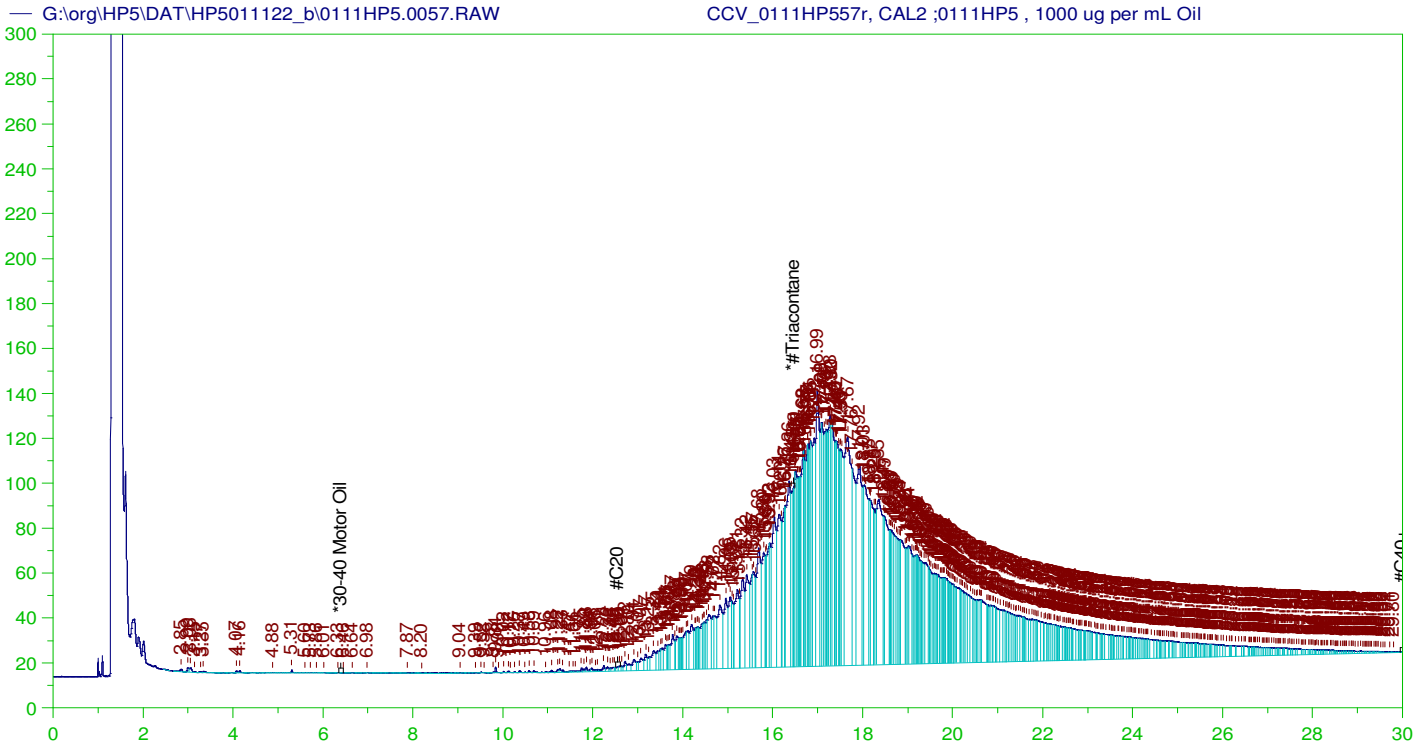
Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.162	200.	.406	.2
*1-Chlorooctadecane	29.946	200.	.	.

DRO Area:2125703 DRO Amount: 72.16209  
 TEH Area:2146824 TEH Amount: 72.8791





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP557r, CAL2 ;0111HP5 , 1000 ug per mL Oil  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0057.RAW  
 Date & Time Acquired: 1/13/2022 4:31:31 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-57-BA-L\MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.454	500.	3.058	.61

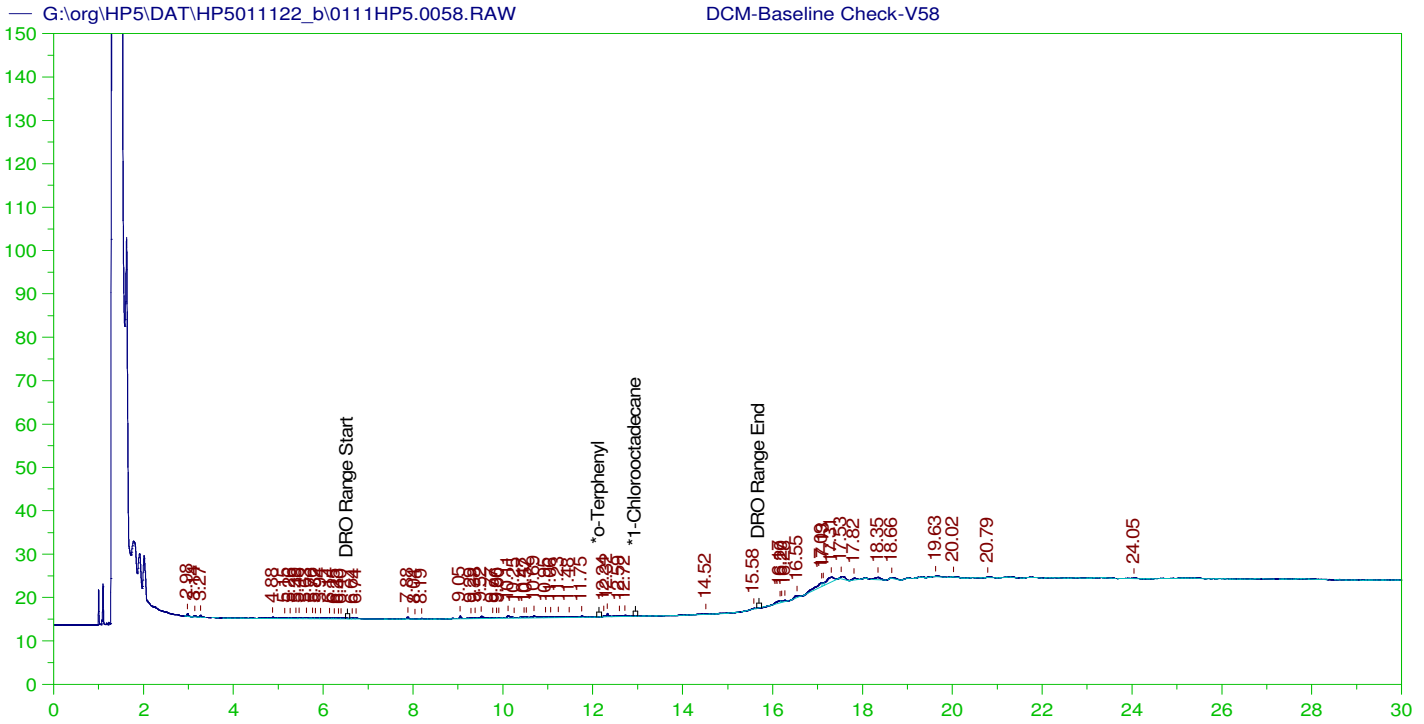
RRO Area: 2.729502E+07 RRO AMOUNT: 1032.941

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0057.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.454	200.	3.058	1.53	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

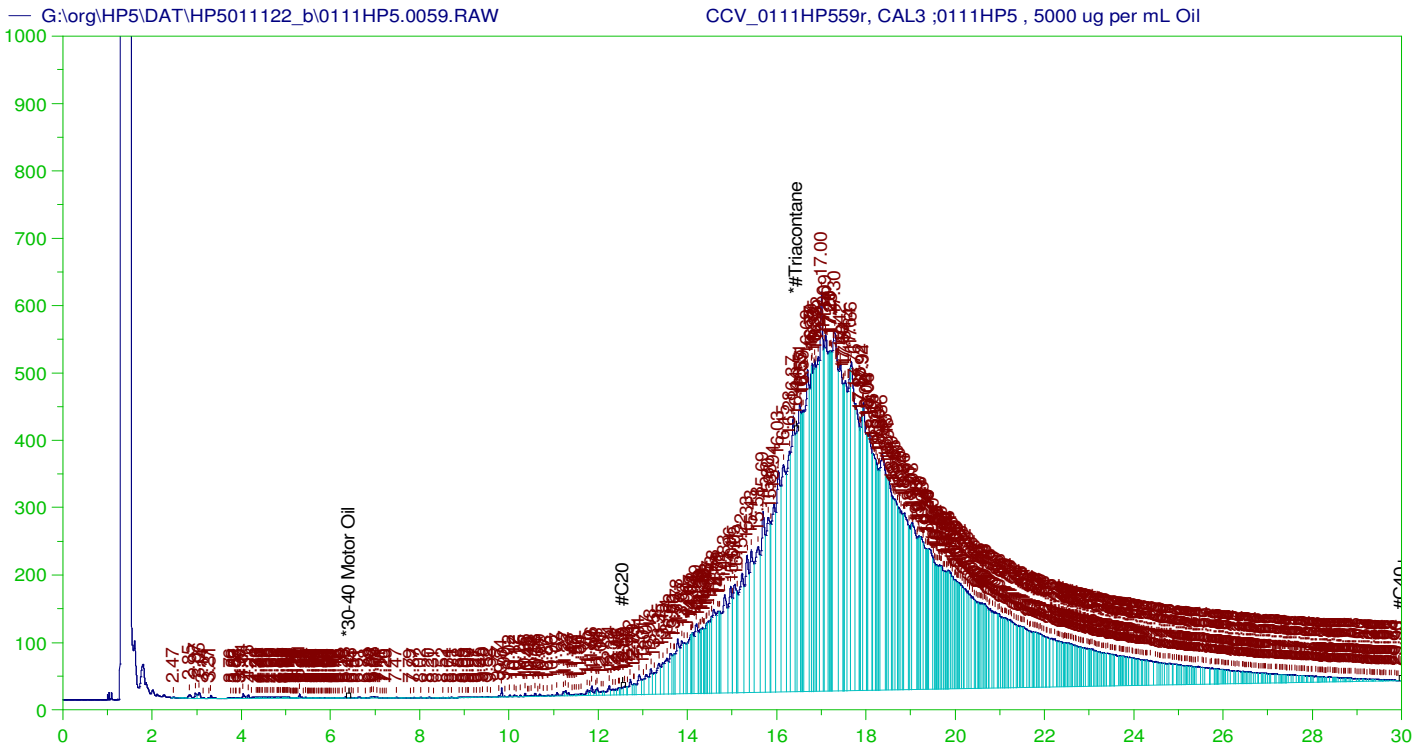
Sample Name: DCM-Baseline Check-V58  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0058.RAW  
 Date & Time Acquired: 1/13/2022 5:14:45 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	29.94	200.	.	-
*1-Chlorooctadecane	29.94	200.	.	-

DRO Area:48306.73 DRO Amount: 1.639888  
 TEH Area:141285.5 TEH Amount: 4.796276



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP559r, CAL3 ;0111HP5 , 5000 ug per mL Oil  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0059.RAW  
 Date & Time Acquired: 1/13/2022 5:57:48 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-59-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.51 to 30.05

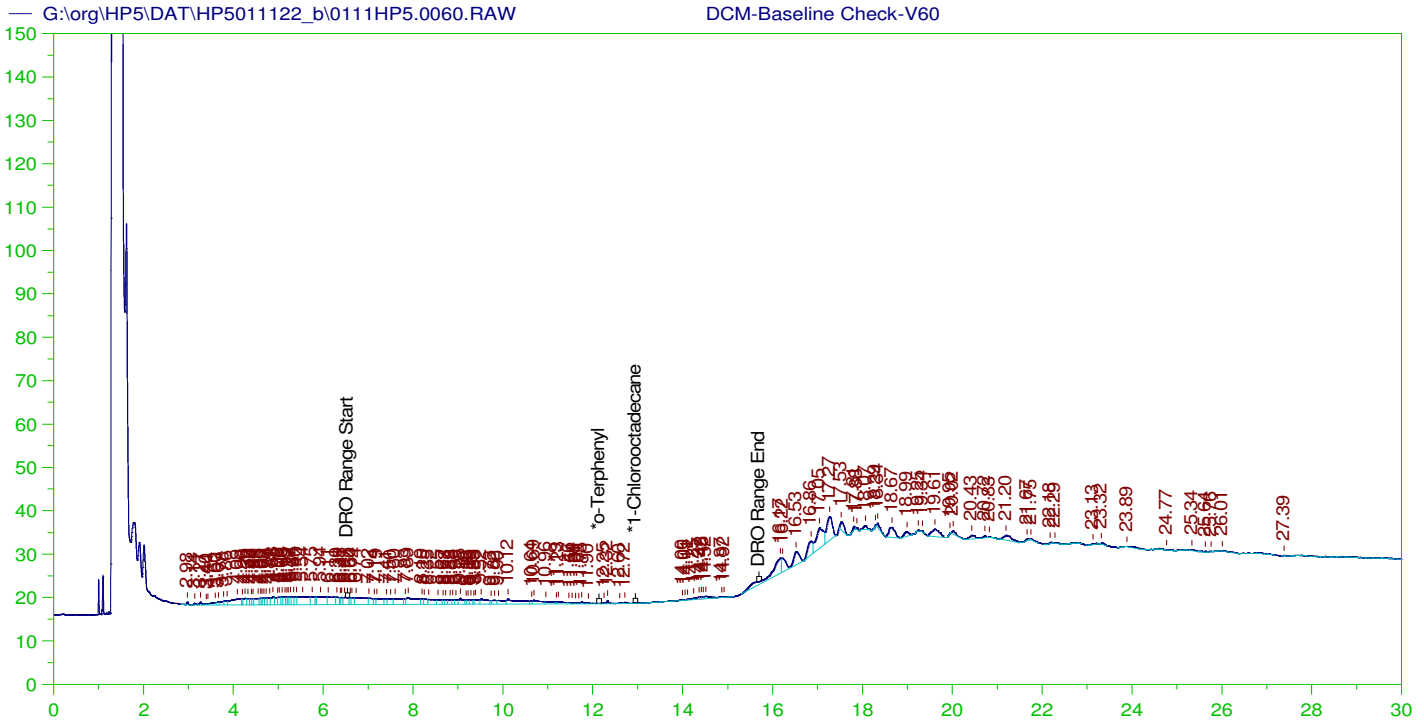
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.442	500.	33.09	6.62	-

RRO Area:1.303441E+08 RRO AMOUNT: 4932.688

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0059.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.037	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.442	200.	33.09	16.54	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

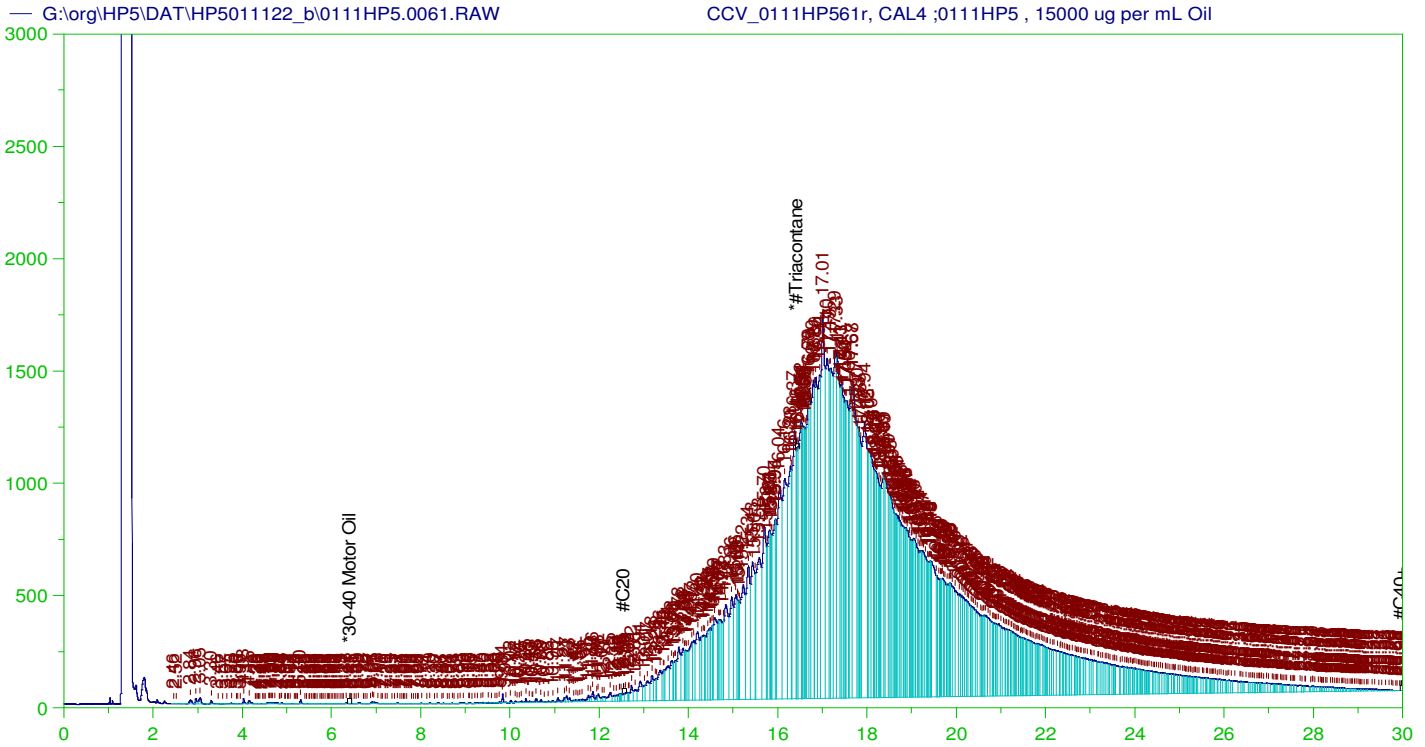
Sample Name: DCM-Baseline Check-V60  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0060.RAW  
 Date & Time Acquired: 1/13/2022 6:41:03 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	29.911	200.	.	-
*1-Chlorooctadecane	29.911	200.	.	-

DRO Area:316779.5 DRO Amount: 10.75384  
 TEH Area:980005.5 TEH Amount: 33.26864



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP561r, CAL4 ;0111HP5 , 15000 ug per mL Oil  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0061.RAW  
 Date & Time Acquired: 1/13/2022 7:24:16 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-61-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.429	500.	33.728	6.75	-

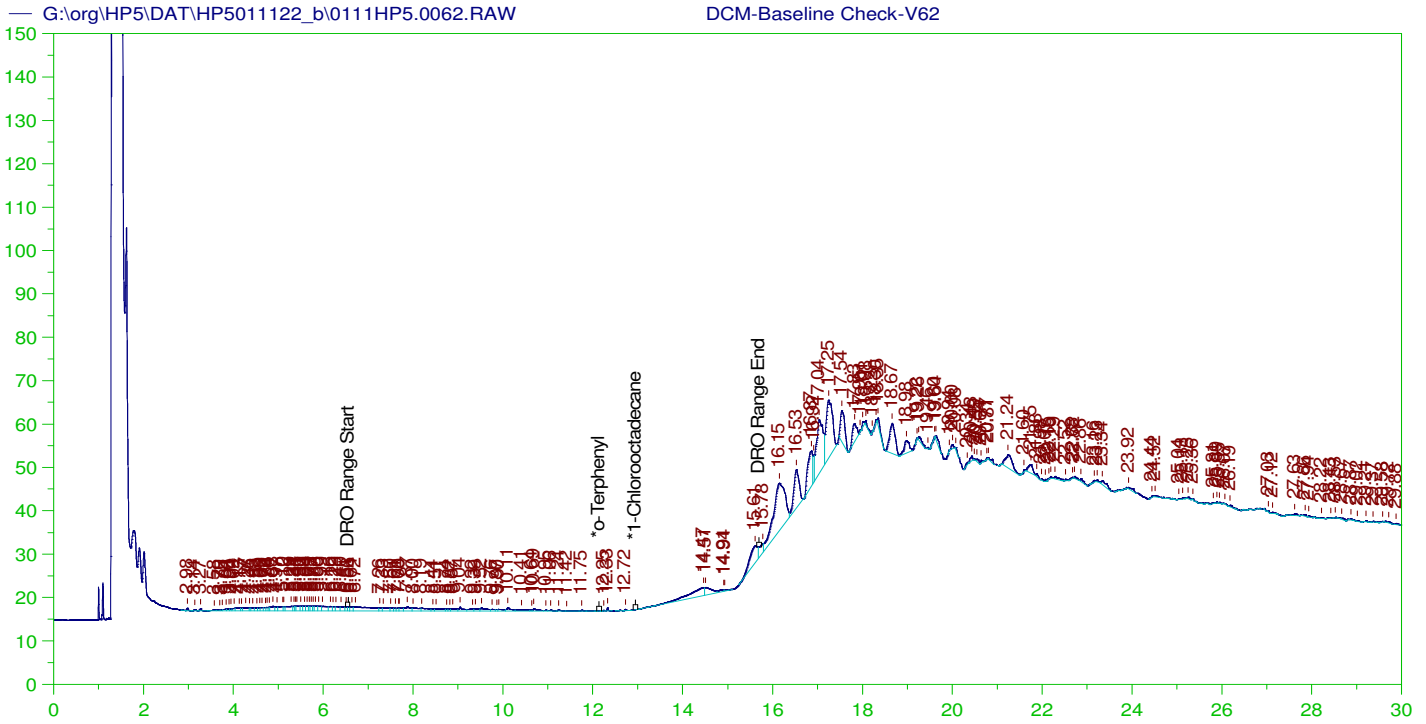
RRO Area:3.786286E+08 RRO AMOUNT: 14328.67

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0061.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.086	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.429	200.	33.728	16.86	75-125



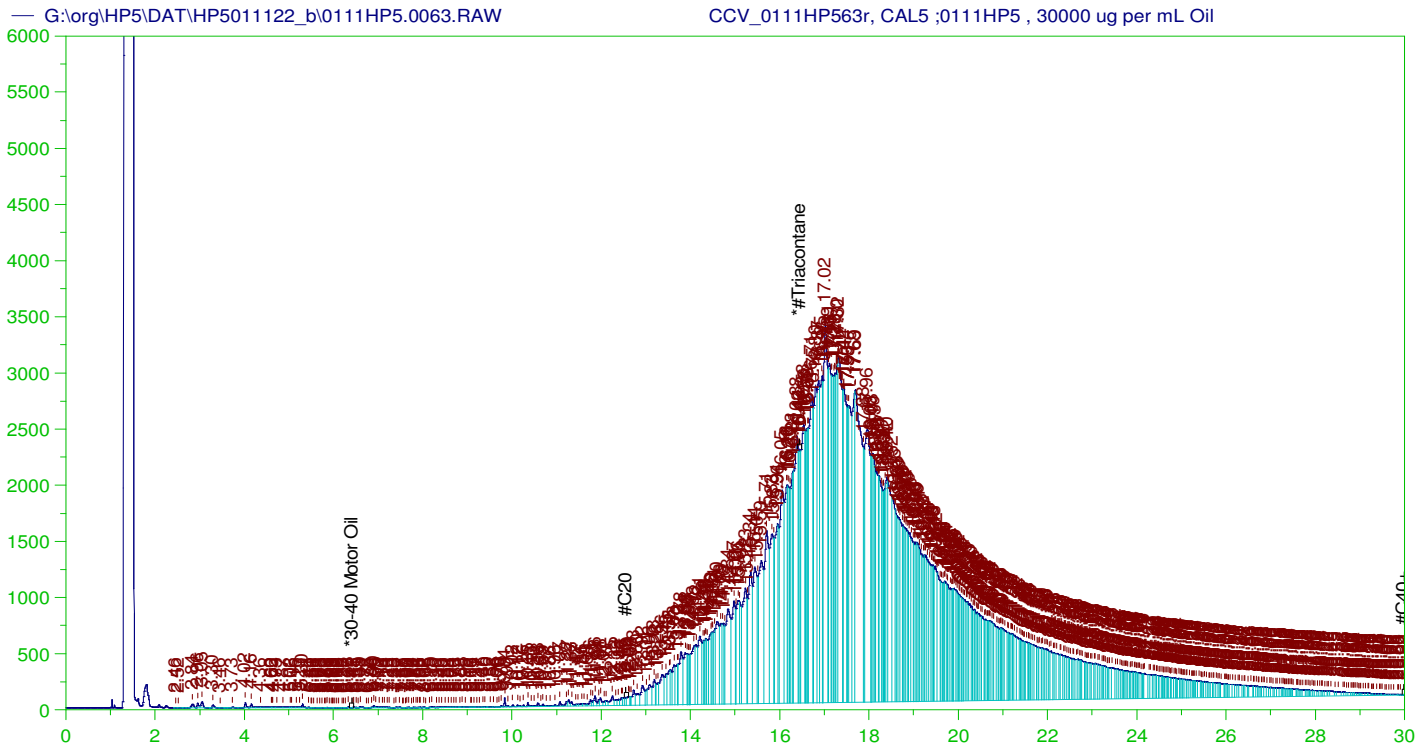
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V62  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0062.RAW  
 Date & Time Acquired: 1/13/2022 8:07:28 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	29.883	200.	.	.
*1-Chlorooctadecane	29.883	200.	.	.

DRO Area: 289041.4 DRO Amount: 9.812207  
 TEH Area: 1408450 TEH Amount: 47.81323



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP563r, CAL5 ;0111HP5 , 30000 ug per mL Oil  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0063.RAW  
 Date & Time Acquired: 1/13/2022 8:50:32 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.51 to 30.05

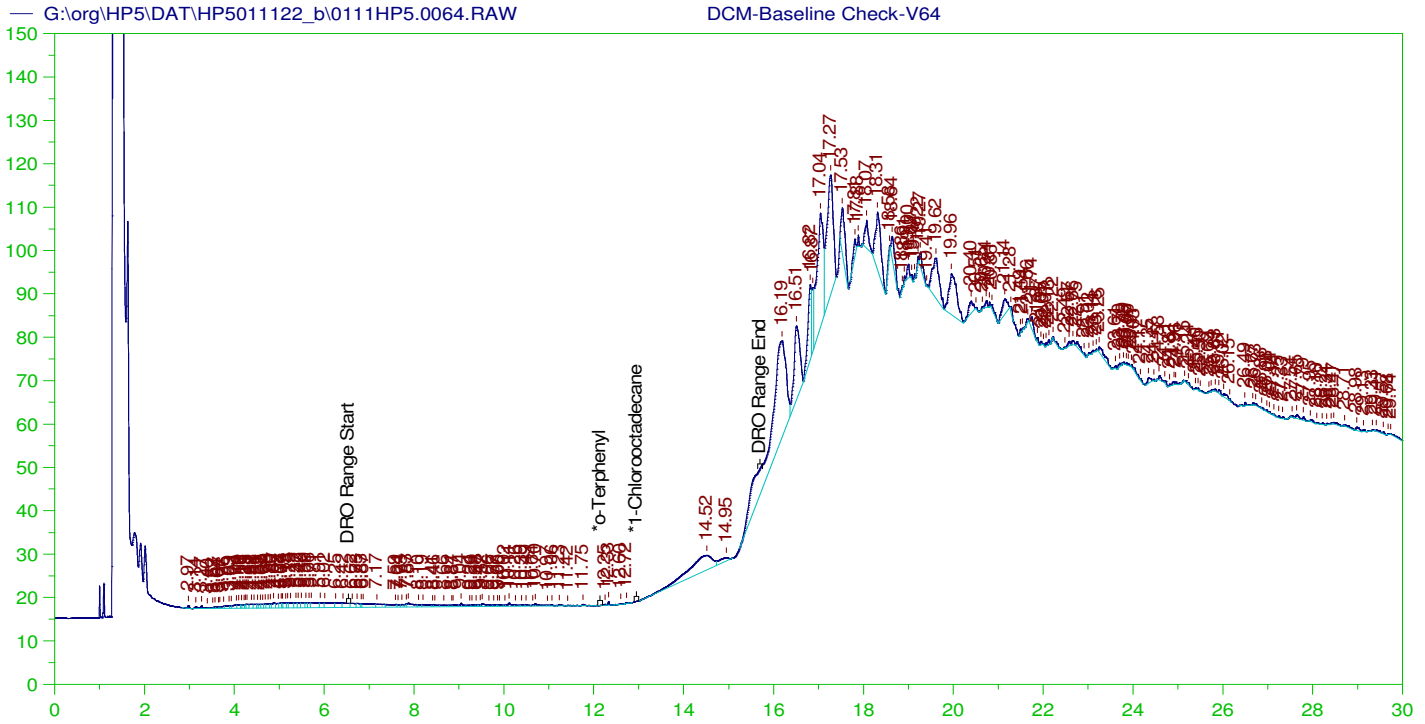
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.44	500.	102.625	20.52	-

RRO Area: 7.608009E+08 RRO AMOUNT: 28791.44

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0063.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.102	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.44	200.	102.625	51.31	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

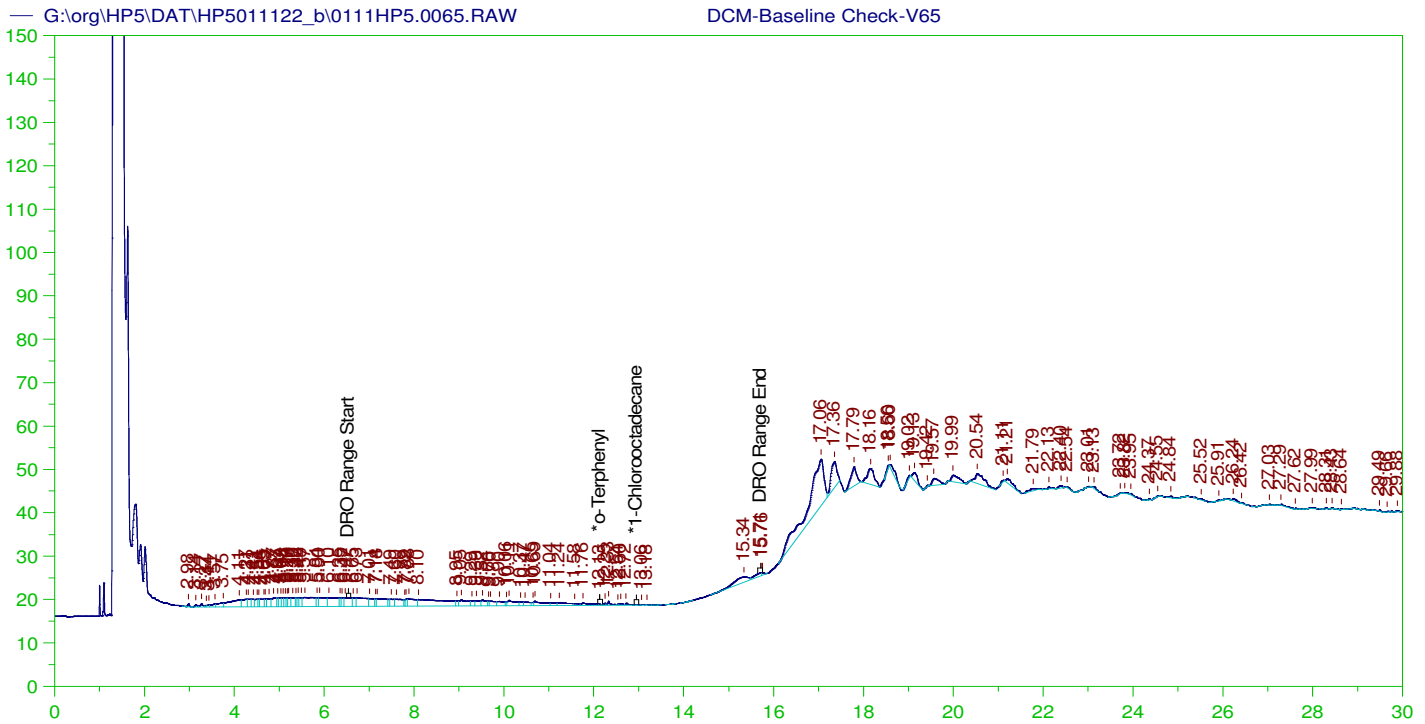
Sample Name: DCM-Baseline Check-V64  
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 Date & Time Acquired: 1/13/2022 9:33:32 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	29.741	200.	.	.
*1-Chlorooctadecane	29.741	200.	.	.

DRO Area:282237.4 DRO Amount: 9.581227  
 TEH Area:2669631 TEH Amount: 90.62704





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

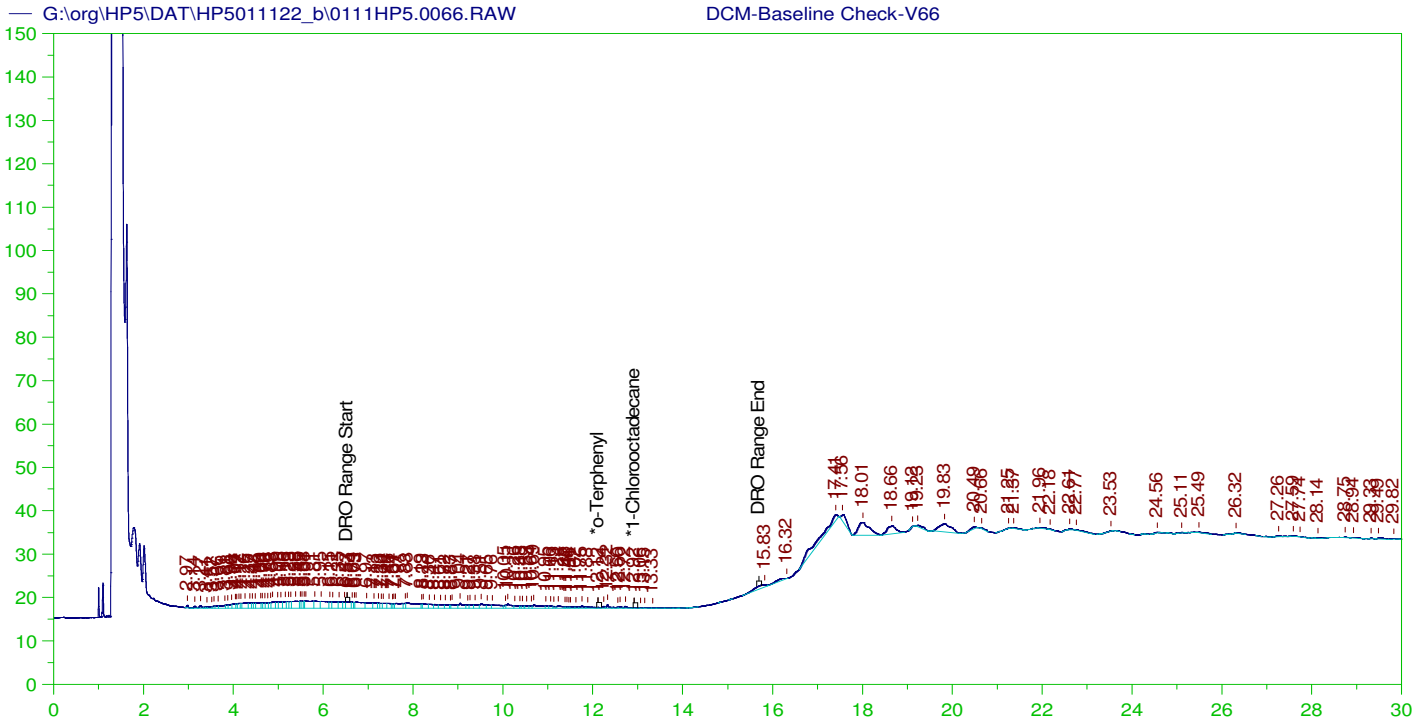
Sample Name: DCM-Baseline Check-V65  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0065.RAW  
 Date & Time Acquired: 1/13/2022 10:16:33 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.129	200.	.021	.01
*1-Chlorooctadecane	29.884	200.	.	.

DRO Area:397141.5 DRO Amount: 13.48192  
 TEH Area:1310457 TEH Amount: 44.48662



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

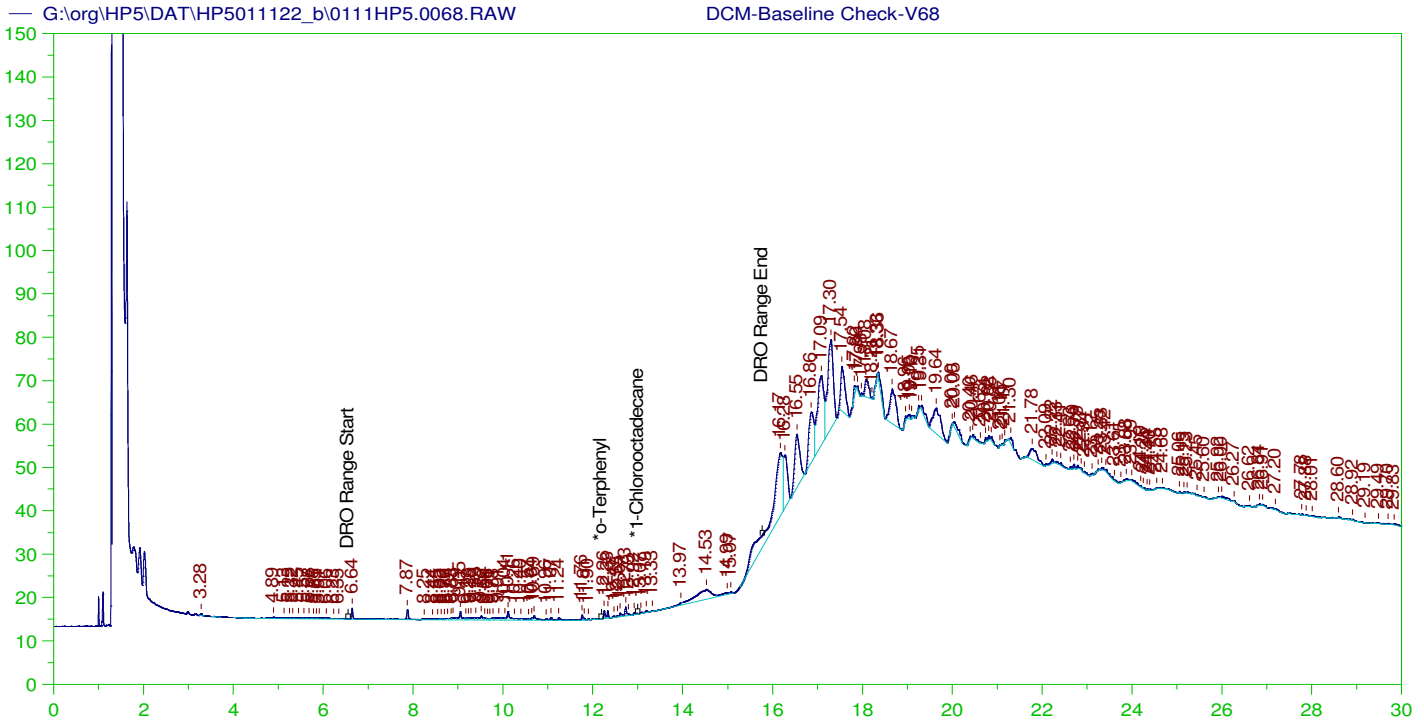
Sample Name: DCM-Baseline Check-V66  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0066.RAW  
 Date & Time Acquired: 1/13/2022 10:59:39 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-HE-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO210108HE.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

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	12.12	200.	.025	.01
*1-Chlorooctadecane	12.922	200.	.037	.02

DRO Area: 278500.4 DRO Amount: 9.454367  
 TEH Area: 757930.2 TEH Amount: 25.72976



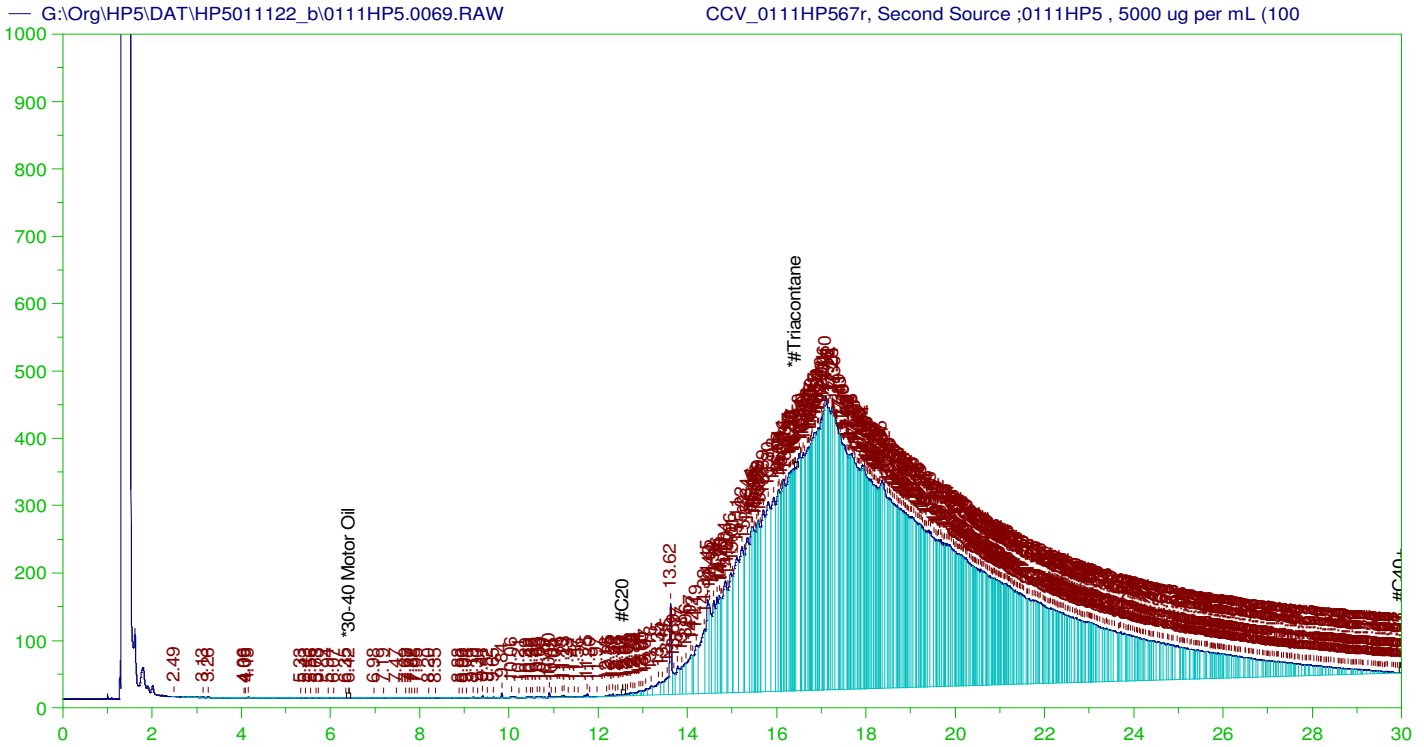
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V68  
 Raw File: G:\org\HP5\DAT\HP5011122\_b\0111HP5.0068.RAW  
 Date & Time Acquired: 1/14/2022 7:35:26 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	29.833	200.	.	-
*1-Chlorooctadecane	29.833	200.	.	-

DRO Area:178261.1 DRO Amount: 5.685582  
 TEH Area:1513925 TEH Amount: 48.28614



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0111HP567r, Second Source ;0111HP5 , 5000 ug per mL (100  
 Raw File: G:\Org\HP5\DAT\HP5011122\_b\0111HP5.0069.RAW  
 Date & Time Acquired: 1/14/2022 8:18:14 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-59-BA-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.51 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.408	500.	23.958	4.79	-

RRO Area:1.341574E+08 RRO AMOUNT: 5076.999

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5011122\_b\0111HP5.0069.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil_____	5000.	.033	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane_____	16.408	200.	23.958	11.98	75-125

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.25r	DCM-Baseline Check-V25	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.26r	Marker_0111HP526r_DRO_0111HP5 , DRO220111A	G:\org\HP5\Methods\CSC210212.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.27r	DCM-Baseline Check-V27	G:\Org\HP5\Methods\DR_8015-HS-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.28r	CCV_0111HP528r, CAL1 :0111HP5 , 2 ug per mL Triacotane (10 uL of Cal3 + 990 uL DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.29r	CCV_0111HP529r, CAL2 :0111HP5 , 50 ug per mL Triacotane (100 uL Cal4 + 900 uL of DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.30r	CCV_0111HP530r, CAL3 :0111HP5 , 200 ug per mL Triacotane (100uL of Cal5 + 400 uL DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.31r	CCV_0111HP531r, CAL4 :0111HP5 , 500 ug per mL Triacotane (250uL of Cal5 + 250 uL DCM(14647)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.32r	DCM-Baseline Check-V33	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.50r	CCV_0111HP550r, CAL5 :0111HP5 , 1000 ug per mL Triacotane (DRO211006A)	G:\Org\HP5\Methods\DS_ORO-BA-L#.MET	1	1	1	1	0	Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.51r	DCM-Baseline Check-V51	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.52r	DCM-Baseline Check-V52	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.53r	Marker_0111HP553r_DRO_0111HP5 , DRO220111A	G:\org\HP5\Methods\CSC210212.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.54r	DCM-Baseline Check-V54	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.55r	CCV_0111HP555r, CAL1 :0111HP5 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-55-BA-L%.xls	1	1	1	1	0	The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Assigned Set Baseline Now at 25 minutes. Y-Scale adjusted.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.56r	DCM-Baseline Check-V56	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.57r	CCV_0111HP557r, CAL2 :0111HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-57-BA-L%.xls	1	1	1	1	0	The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.58r	DCM-Baseline Check-V58	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.59r	CCV_0111HP559r, CAL3 :0111HP5 , 5000 ug per mL Oil (100 uL of DRO211118A + 900 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-59-BA-L%.xls	1	1	1	1	0	The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.60r	DCM-Baseline Check-V60	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.61r	CCV_0111HP561r, CAL4 :0111HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-61-BA-L%.xls	1	1	1	1	0	The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.62r	DCM-Baseline Check-V62	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.63r	CCV_0111HP563r, CAL5 :0111HP5 , 30000 ug per mL Oil (600 uL of DRO211118A + 400 uL of DCM)	G:\Org\HP5\Methods\DC_ORO-BA-L%.xls	1	1	1	1	0	The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted.
	G:\org\HP5\DAT\HP5011122_b\0111HP5.64r	DCM-Baseline Check-V64	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.65r	DCM-Baseline Check-V65	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.66r	DCM-Baseline Check-V66	G:\Org\HP5\Methods\DR_8015-HE-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.68r	DCM-Baseline Check-V68	G:\Org\HP5\Methods\DR_8015-IC-LEXP.met	1	1	1	1	0	No Integrations
	G:\org\HP5\DAT\HP5011122_b\0111HP5.69r	CCV_0111HP567r, Second Source :0111HP5 , 5000 ug per mL (100uL of DRO210902A + 900uL DCM(14647)	G:\Org\HP5\Methods\DC_ORO-59-BA-L%.xls	1	1	1	1	0	The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted.

*Ann Nebel*

Digitally signed by  
Ann Nebel  
Date: 2022.02.11 10:29:31 -07:00

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO**  
 Prep Batch **163074** Prep Temp **NA °C**

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

Prep Start Date: **1/19/2022 4:29:51 PM**  
 Prep End Date: **1/21/2022 4:59:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
MB-163074			1000	0	0	1.00	0.001		1/19/2022	1/21/2022
Start time: 4:16 PM, 1/19/2022. End time: 01/20/2022 at 10:16 AM. SGT by ALN on remainder of sample on 1/24/2022.										
LCS-163074			1000	0	0	1.00	0.001		1/19/2022	1/21/2022
All bottles were completely used, defaced and disposed of on 1/19/2022. S SGT by ALN on remainder of sample on 1/24/2022.										
LCS-163074-RRO			1000	0	0	1.00	0.001		1/19/2022	1/21/2022
SGT by ALN on remainder of sample on 1/24/2022.										
MBN2-163074			1000	0	0	1.00	0.001		1/19/2022	1/21/2022
SGT by ALN on remainder of sample on 1/24/2022.										
MDL2-163074			1000	0	0	1.00	0.001		1/19/2022	1/21/2022
SGT by ALN on remainder of sample on 1/24/2022.										
B22011136-001D	Ground Water	2	1010	0	0	1.00	0.00099		1/19/2022	1/21/2022
Bottle 1/6. Clear, orange sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011136-001DMS	Ground Water	2	1010	0	0	1.00	0.00099		1/19/2022	1/21/2022
Bottle 2/6. Clear, orange sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011136-001DMSD	Ground Water	2	1010	0	0	1.00	0.00099		1/19/2022	1/21/2022
Bottle 3/6. Clear, orange sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011136-001DMS-RRO	Ground Water	2	1000	0	0	1.00	0.001		1/19/2022	1/21/2022
Bottle 4/6. Clear, orange sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011136-001DMSD-RRO	Ground Water	2	1030	0	0	1.00	0.000971		1/19/2022	1/21/2022
Bottle 5/6. Clear, orange sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011124-001D	Ground Water	2	1000	0	0	1.00	0.001		1/19/2022	1/21/2022
Bottle 1/2. Clear.										
B22011125-001D	Ground Water	2	990	0	0	1.00	0.00101		1/19/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
B22011126-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/19/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
B22011127-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/19/2022	1/21/2022
Bottle 1/2. Clear.										

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
14719	4ML, Amber Vial, 20220104	1/4/2027
14747	Dichloromethane EC849	11/1/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP220113 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 01/18/22 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO220119A	Triacontane SURR 1000 ug/mL	All except LCS, L	100 uL	4/6/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO220106C	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS,	100 uL	11/5/2023
DRO220112A	50,000 ug/mL Oil Std for RRO-In D	LCS-RRO, LCSD	100 uL	9/1/2026
DRO211121C	MDL Diesel SPK 3000 ug/mL in Acet	MDL	50 uL	11/5/2023
DRO220117A	OTPolny SURR 20 ug/mL	MDL	100 uL	9/30/2024

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO**  
 Prep Batch **163074** Prep Temp **NA °C**

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

Prep Start Date: **1/19/2022 4:29:51 PM**  
 Prep End Date: **1/21/2022 4:59:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
B22011128-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/19/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
B22011129-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/19/2022	1/21/2022
Bottle 1/2. Turbid, light sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011130-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/19/2022	1/21/2022
Bottle 1/2. Clear.										
B22011131-001D	Ground Water	2	1050	0	0	1.00	0.000952		1/19/2022	1/21/2022
Bottle 1/2. Clear.										
B22011132-001D	Ground Water	2	1010	0	0	1.00	0.00099		1/19/2022	1/21/2022
Bottle 1/2. Clear, light sediment.										
B22011133-001D	Ground Water	2	970	0	0	1.00	0.00103		1/19/2022	1/21/2022
Bottle 1/2. Clear.										
B22011134-001D	Ground Water	2	1000	0	0	1.00	0.001		1/19/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
B22011134-002B	Ground Water	2	990	0	0	1.00	0.00101		1/19/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
B22011135-001D	Ground Water	2	990	0	0	1.00	0.00101		1/19/2022	1/21/2022
Bottle 1/2. Clear, light sediment. SGT by ALN on remainder of sample on 1/24/2022.										
B22011137-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/19/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
MDL1-163074-RRO			1000	0	0	1.00	0.001		1/20/2022	1/21/2022
Lines 25-28 Start time: 1:12 PM, 1/20/2022. End time: 01/21/2022 at 7:52 AM. SGT by ALN on remainder of sample on 1/24/2022.										
LOD-163074-RRO			1000	0	0	1.00	0.001		1/20/2022	1/21/2022
SGT by ALN on remainder of sample on 1/24/2022.										
B22011214-001D	Ground Water	2	1000	0	0	1.00	0.001		1/20/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										
B22011227-001D	Ground Water	2	990	0	0	1.00	0.00101		1/20/2022	1/21/2022
Bottle 1/2. Clear. SGT by ALN on remainder of sample on 1/24/2022.										

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
14719	4ML, Amber Vial, 20220104	1/4/2027
14747	Dichloromethane EC849	11/1/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP220113 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 01/18/22 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO220119A	Triacontane SURR 1000 ug/mL	All except LCS, L	100 uL	4/6/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO220106C	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS,	100 uL	11/5/2023
DRO220112A	50,000 ug/mL Oil Std for RRO-In D	LCS-RRO, LCSD	100 uL	9/1/2026
DRO211121C	MDL Diesel SPK 3000 ug/mL in Acet	MDL	50 uL	11/5/2023
DRO220117A	OTPolny SURR 20 ug/mL	MDL	100 uL	9/30/2024

# PREP BATCH REPORT

Prep Code: **HC-3520-DRO**  
 Prep Batch **163074** Prep Temp **NA °C**

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

Prep Start Date: **1/19/2022 4:29:51 PM**  
 Prep End Date: **1/21/2022 4:59:00 PM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
B22011228-001D	Ground Water	2	1020	0	0	1.00	0.00098		1/20/2022	1/21/2022
Bottle 1/2. Clear. Start time: 2:18 PM, 1/20/2022. End time: 01/21/2022 at 8:20 AM. SGT by ALN on remainder of sample on 1/24/2022.										

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
14719	4ML, Amber Vial, 20220104	1/4/2027
14747	Dichloromethane EC849	11/1/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP220113 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
Sulfate 01/18/22 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO220119A	Triacontane SURR 1000 ug/mL	All except LCS, L	100 uL	4/6/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO220106C	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS,	100 uL	11/5/2023
DRO220112A	50,000 ug/mL Oil Std for RRO-In D	LCS-RRO, LCSD	100 uL	9/1/2026
DRO211121C	MDL Diesel SPK 3000 ug/mL in Acet	MDL	50 uL	11/5/2023
DRO220117A	OTPonly SURR 20 ug/mL	MDL	100 uL	9/30/2024



# Energy Laboratories Inc

# ANALYTICAL RUN Summary

25-Jan-22

Run ID GCFID-HP5-B\_220122A

<b>Run Start Date:</b> 1/22/2022
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> DRO-8015-ICAL information is in Index GCFID-HP5-B_220111A 8015C OIL range calibration GCFID-HP5-B_220111C

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO220111A	Carbon Scan STD-Marker					MARKER	7/13/2026
DRO220114A	8015 CCV-15,000ug/mL + 200 OTP					CCV-DRO	4/30/2023
DRO220118A	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					
14993838	CCV_0122HP50	HC-8015-DRO-	CCV		1/22/2022 12:23:	1	R373590		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		4.58725049		5	0	0	0.0879	0.3	0	92%	80	120	0%	
n-Triacontane	S	mg/L		0.2082392		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					
14993839	CCV_0122HP50	HC-8015-DRO-	CCV		1/22/2022 1:05:5	1	R373590		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.31278		15	0	0	0.0389	0.3	0	95%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.83332		15	0	0	0.0749	0.3	50	99%	80	120	0%	
o-Terphenyl	S	mg/L		0.2057624		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					
14993840	LCS-163074	HC-8015-DRO-	LCS-DOD		1/22/2022 3:13:4	1	163074	1/19/2022 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					
14993840	LCS-163074	HC-8015-DRO-	LCS-DOD		1/22/2022 3:13:4	1	163074	1/19/2022 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		12.4444		15	0	0	0.0389	0.3	0	83%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		13.27563		15	0	0	0.0749	0.3	50	89%	60	132	0%	
o-Terphenyl	S	mg/L		0.19445		0.2	0	0	0.000429	0.002	0	97%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993841	MB-163074	HC-8015-DRO-	MBLK		1/22/2022 3:56:2	1	163074	1/19/2022 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		0.099		0.1	0	0	0.000336	0.002	0	99%	50	150	0%	
o-Terphenyl	S	mg/L		0.1900033		0.2	0	0	0.000429	0.002	0	95%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993842	B22011133-001	HC-8015-DRO-	SAMP		1/22/2022 4:38:5	1	163074	1/19/2022 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		0.104		0.103	0	0	0.0003461	0.00206	0	101%	50	150	0%	
o-Terphenyl	S	mg/L		0.2001346		0.206	0	0	0.0004419	0.00206	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					
14993843	B22011130-001	HC-8015-DRO-	SAMP		1/22/2022 5:21:4	1	163074	1/19/2022 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		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		0.093		0.0952	0	0	0.0003199	0.001904	0	98%	50	150	0%	
o-Terphenyl	S	mg/L		0.1795577		0.1904	0	0	0.0004084	0.002	0	94%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993844	B22011127-001	HC-8015-DRO-	SAMP		1/22/2022 6:04:4	1	163074	1/19/2022 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		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		0.093		0.0952	0	0	0.0003199	0.001904	0	98%	50	150	0%	
o-Terphenyl	S	mg/L		0.1770193		0.1904	0	0	0.0004084	0.002	0	93%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993845	B22011124-001	HC-8015-DRO-	SAMP		1/22/2022 7:30:3	1	163074	1/19/2022 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	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.0749	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.098		0.1	0	0	0.000336	0.002	0	98%	50	150	0%	
o-Terphenyl	S	mg/L		0.1868575		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					
14993846	B22011136-001	HC-8015-DRO-	SAMP		1/22/2022 8:13:2	1	163074	1/19/2022 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		0.04119858		0	0	0	0.038511	0.3	0	0%	0	0	0%	J
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		0.133291		0	0	0	0.074151	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.098		0.099	0	0	0.0003326	0.00198	0	99%	50	150	0%	
o-Terphenyl	S	mg/L		0.1798325		0.198	0	0	0.0004247	0.002	0	91%	56	125	0%	
TEH(Oil Range)	X	mg/L		0.12946054		0	0	0	0.087021	0.3	0	0%	0	0	0%	J
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993847	B22011136-001	HC-8015-DRO-	MS-DOD		1/22/2022 8:56:2	1	163074	1/19/2022 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		12.01359		14.85	0.0411986	0	0.038511	0.3	0	81%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		12.84102		14.85	0.133291	0	0.074151	0.3	50	86%	60	132	0%	
o-Terphenyl	S	mg/L		0.1797402		0.198	0	0	0.0004247	0.002	0	91%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993848	B22011136-001	HC-8015-DRO-	MSD-DOD		1/22/2022 9:39:2	1	163074	1/19/2022 4:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		12.86723		14.85	0.0411986	12.01359	0.038511	0.3	0	86%	36	132	7%	
Total Extractable Hydrocarbons	A	mg/L		13.80055		14.85	0.133291	12.84102	0.074151	0.3	50	92%	60	132	7%	
o-Terphenyl	S	mg/L		0.1917537		0.198	0	0	0.0004247	0.002	0	97%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993849	CCV_0122HP51	HC-8015-DRO-	CCV		1/22/2022 11:05:	1	R373590			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		4.6328252		5	0	0	0.0879	0.3	0	93%	80	120	0%	
n-Triacontane	S	mg/L		0.2100352		0.2	0	0	0.000336	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					
14993850	CCV_0122HP52	HC-8015-DRO-	CCV		1/22/2022 11:47:	1	R373590			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		15.16167		15	0	0	0.0389	0.3	0	101%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.67054		15	0	0	0.0749	0.3	50	104%	80	120	0%	
o-Terphenyl	S	mg/L		0.21784		0.2	0	0	0.000429	0.002	0	109%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993851	B22011131-001	HC-8015-DRO-	SAMP		1/23/2022 1:56:3	1	163074	1/19/2022 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		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		0.096		0.0952	0	0	0.0003199	0.001904	0	101%	50	150	0%	
o-Terphenyl	S	mg/L		0.1823359		0.1904	0	0	0.0004084	0.002	0	96%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993852	B22011137-001	HC-8015-DRO-	SAMP		1/23/2022 2:39:2	1	163074	1/19/2022 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					
14993852	B22011137-001	HC-8015-DRO-	SAMP		1/23/2022 2:39:2	1	163074	1/19/2022 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		5.152228		0	0	0	0.0377719	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.42649785		0	0	0	0.0853509	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		5.573177		0	0	0	0.0727279	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.094		0.0971	0	0	0.0003263	0.001942	0	97%	50	150	0%	
o-Terphenyl	S	mg/L		0.1442989		0.1942	0	0	0.0004166	0.002	0	74%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993853	B22011132-001	HC-8015-DRO-	SAMP		1/23/2022 4:05:0	1	163074	1/19/2022 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		0.097		0.099	0	0	0.0003326	0.00198	0	98%	50	150	0%	
o-Terphenyl	S	mg/L		0.1822185		0.198	0	0	0.0004247	0.002	0	92%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993854	B22011134-001	HC-8015-DRO-	SAMP		1/23/2022 4:48:0	1	163074	1/19/2022 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		0.1591228		0	0	0	0.0389	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0879	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0.1883437		0	0	0	0.0749	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.097		0.1	0	0	0.000336	0.002	0	97%	50	150	0%	
o-Terphenyl	S	mg/L		0.1194513		0.2	0	0	0.000429	0.002	0	60%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993855	B22011134-002	HC-8015-DRO-	SAMP		1/23/2022 5:30:4	1	163074	1/19/2022 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		0.2807122		0	0	0	0.039289	0.303	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.23253545		0	0	0	0.088779	0.303	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.5500479		0	0	0	0.075649	0.303	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.106		0.101	0	0	0.0003394	0.00202	0	105%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993855	B22011134-002	HC-8015-DRO-	SAMP		1/23/2022 5:30:4	1	163074	1/19/2022 4:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.2003157		0.202	0	0	0.0004333	0.00202	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					
14993856	B22011126-001	HC-8015-DRO-	SAMP		1/23/2022 6:56:2	1	163074	1/19/2022 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		0.1177243		0	0	0	0.0370328	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.24069065		0	0	0	0.0836808	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.3627226		0	0	0	0.0713048	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.087		0.0952	0	0	0.0003199	0.001904	0	91%	50	150	0%	
o-Terphenyl	S	mg/L		0.1628372		0.1904	0	0	0.0004084	0.002	0	86%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993857	B22011128-001	HC-8015-DRO-	SAMP		1/23/2022 7:38:5	1	163074	1/19/2022 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		0.1783622		0	0	0	0.0377719	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.40822896		0	0	0	0.0853509	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.6003284		0	0	0	0.0727279	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.097		0.0971	0	0	0.0003263	0.001942	0	100%	50	150	0%	
o-Terphenyl	S	mg/L		0.1865468		0.1942	0	0	0.0004166	0.002	0	96%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993858	B22011125-001	HC-8015-DRO-	SAMP		1/23/2022 8:21:3	1	163074	1/19/2022 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		0.05833516		0	0	0	0.039289	0.303	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.24068913		0	0	0	0.088779	0.303	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.3083444		0	0	0	0.075649	0.303	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.103		0.101	0	0	0.0003394	0.00202	0	102%	50	150	0%	
o-Terphenyl	S	mg/L		0.1957013		0.202	0	0	0.0004333	0.00202	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					
14993859	CCV_0122HP53	HC-8015-DRO-	CCV		1/23/2022 9:46:5	1	R373590			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		4.44504004		5	0	0	0.0879	0.3	0	89%	80	120	0%	
n-Triacontane	S	mg/L		0.2019936		0.2	0	0	0.000336	0.002	0	101%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993860	CCV_0122HP53	HC-8015-DRO-	CCV		1/23/2022 10:29:	1	R373590			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.80116		15	0	0	0.0389	0.3	0	92%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.29655		15	0	0	0.0749	0.3	50	95%	80	120	0%	
o-Terphenyl	S	mg/L		0.1996613		0.2	0	0	0.000429	0.002	0	100%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993861	LCS-163074-RR	HC-8015-DRO-	LCS-DOD		1/23/2022 4:52:4	1	163074	1/19/2022 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		4.99422026		5	0	0	0.0879	0.3	0	100%	41	113	0%	
n-Triacontane	S	mg/L		0.098		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					
14993862	B22011136-001	HC-8015-DRO-	MS-DOD		1/23/2022 6:18:4	1	163074	1/19/2022 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		4.77760887		5	0.1294605	0	0.0879	0.3	0	93%	41	113	0%	
n-Triacontane	S	mg/L		0.094		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					
14993863	B22011136-001	HC-8015-DRO-	MSD-DOD		1/23/2022 7:01:4	1	163074	1/19/2022 4:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		4.87107563		4.855	0.1294605	4.7776089	0.0853509	0.3	0	98%	41	113	2%	
n-Triacontane	S	mg/L		0.088		0.0971	0	0	0.0003263	0.002	0	91%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14993864	CCV_0122HP54	HC-8015-DRO-	CCV		1/23/2022 8:27:3	1	R373590		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	4.44444043			5	0	0	0.0879	0.3	0	89%	80	120	0%	
n-Triacontane	S	mg/L	0.1929698			0.2	0	0	0.000336	0.002	0	96%	80	120	0%	



# Energy Laboratories Inc

# ANALYTICAL RUN Summary

25-Jan-22

Run ID GCFID-HP5-B\_220124A

<b>Run Start Date:</b> 1/24/2022
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> DRO-8015-ICAL information is in Index GCFID-HP5-B_220111A 8015C OIL range calibration GCFID-HP5-B_220111C

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO220111A	Carbon Scan STD-Marker					MARKER	7/13/2026
DRO220114A	8015 CCV-15,000ug/mL + 200 OTP					CCV-DRO	4/30/2023
DRO220118A	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					
14997025	CCV_0124HP50	HC-8015-DRO-	CCV		1/24/2022 9:37:0	1	R373655		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.39205		15	0	0	0.0389	0.3	0	96%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.90563		15	0	0	0.0749	0.3	50	99%	80	120	0%	
o-Terphenyl	S	mg/L		0.2062031		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					
14997026	CCV_0124HP50	HC-8015-DRO-	CCV		1/24/2022 10:43:	1	R373655		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		4.52936621		5	0	0	0.0879	0.3	0	91%	80	120	0%	
n-Triacontane	S	mg/L		0.2041319		0.2	0	0	0.000336	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					
14997027	B22011227-001	HC-8015-DRO-	SAMP		1/24/2022 12:50:	1	163074	1/20/2022 1:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14997027	B22011227-001	HC-8015-DRO-	SAMP		1/24/2022 12:50:	1	163074	1/20/2022 1:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.039289	0.303	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L	0.08959737			0	0	0	0.088779	0.303	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L	0.1248949			0	0	0	0.075649	0.303	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.104		0.101	0	0	0.0003394	0.00202	0	103%	50	150	0%	
o-Terphenyl	S	mg/L	0.2010817			0.202	0	0	0.0004333	0.00202	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					
14997028	B22011214-001	HC-8015-DRO-	SAMP		1/24/2022 1:33:1	1	163074	1/20/2022 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	0.06739876			0	0	0	0.0389	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L	0.15814121			0	0	0	0.0879	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L	0.2345351			0	0	0	0.0749	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.099		0.1	0	0	0.000336	0.002	0	99%	50	150	0%	
o-Terphenyl	S	mg/L	0.1755822			0.2	0	0	0.000429	0.002	0	88%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14997029	B22011228-001	HC-8015-DRO-	SAMP		1/24/2022 2:15:4	1	163074	1/20/2022 2:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L	0.1016414			0	0	0	0.038122	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L	0.20358017			0	0	0	0.086142	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L	0.3135355			0	0	0	0.073402	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1		0.098	0	0	0.0003293	0.00196	0	102%	50	150	0%	
o-Terphenyl	S	mg/L	0.1893192			0.196	0	0	0.0004204	0.002	0	97%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14997030	B22011135-001	HC-8015-DRO-	SAMP		1/24/2022 2:58:1	1	163074	1/19/2022 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	0.3593759			0	0	0	0.039289	0.303	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L	0.54547250			0	0	0	0.088779	0.303	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L	0.9182599			0	0	0	0.075649	0.303	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.097		0.101	0	0	0.0003394	0.00202	0	96%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14997030	B22011135-001	HC-8015-DRO-	SAMP		1/24/2022 2:58:1	1	163074	1/19/2022 4:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1849527		0.202	0	0	0.0004333	0.00202	0	92%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14997031	B22011129-001	HC-8015-DRO-	SAMP		1/24/2022 3:40:5	1	163074	1/19/2022 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		0.3300634		0	0	0	0.0370328	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.54697472		0	0	0	0.0836808	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.9091387		0	0	0	0.0713048	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.092		0.0952	0	0	0.0003199	0.001904	0	97%	50	150	0%	
o-Terphenyl	S	mg/L		0.1616092		0.1904	0	0	0.0004084	0.002	0	85%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14997032	CCV_0124HP51	HC-8015-DRO-	CCV		1/24/2022 5:06:2	1	R373655				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		4.74737939		5	0	0	0.0879	0.3	0	95%	80	120	0%	
n-Triacontane	S	mg/L		0.2055034		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					
14997033	CCV_0124HP51	HC-8015-DRO-	CCV		1/24/2022 5:49:0	1	R373655				0	0				
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.48981		15	0	0	0.0389	0.3	0	97%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.00926		15	0	0	0.0749	0.3	50	100%	80	120	0%	
o-Terphenyl	S	mg/L		0.2110525		0.2	0	0	0.000429	0.002	0	106%	80	120	0%	

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

26-Jan-22

Run ID GCFID-HP5-B\_220124B

<b>Run Start Date:</b> 1/24/2022
<b>Analyst:</b> Ann Nebel
<b>Ical:</b>
<b>Column ID:</b>
<b>Comments:</b> DRO-8015-ICAL information is in Index GCFID-HP5-B_220111A 8015C OIL range calibration GCFID-HP5-B_220111C

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO220111A	Carbon Scan STD-Marker					MARKER	7/13/2026
DRO220114A	8015 CCV-15,000ug/mL + 200 OTP					CCV-DRO	4/30/2023
DRO220118A	5,000 ug/mL RRO CCV 200 ug/mL Triacontane					CCV-RRO	4/6/2026
DRO220124A	8015 CCV-15,000ug/mL + 200 OTP					CCV-DRO	4/30/2023

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998281	CCV_0124HP51	HC-8015-DRO-	CCV		1/24/2022 5:06:2	1	R373703			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		4.74737939		5	0	0	0.0879	0.3	0	95%	80	120	0%	
n-Triacontane	S	mg/L		0.2055034		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					
14998282	CCV_0124HP51	HC-8015-DRO-	CCV		1/24/2022 5:49:0	1	R373703			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.48981		15	0	0	0.0389	0.3	0	97%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.00926		15	0	0	0.0749	0.3	50	100%	80	120	0%	
o-Terphenyl	S	mg/L		0.2110525		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					
14998283	LCS-163074	HC-8015-DRO-	LCS-DOD		1/24/2022 7:57:0	1	163074	1/19/2022 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		11.74684		15	0	0	0.0389	0.3	0	78%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		12.45343		15	0	0	0.0329	0.3	0	83%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.1863207		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					
14998284	B22011125-001	HC-8015-DRO-	SAMP		1/24/2022 9:22:2	1	163074	1/19/2022 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	0.039289	0.303	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.088779	0.303	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.033229	0.303	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.092		0.101	0	0	0.0003394	0.00202	0	91%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1867532		0.202	0	0	0.0004333	0.00202	0	92%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998285	B22011136-001	HC-8015-DRO-	MS-DOD		1/24/2022 10:47:	1	163074	1/19/2022 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		10.55109		14.85	0	0	0.038511	0.3	0	71%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		11.29288		14.85	0	0	0.032571	0.3	0	76%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.1618573		0.198	0	0	0.0004247	0.002	0	82%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998286	B22011136-001	HC-8015-DRO-	MSD-DOD		1/24/2022 11:30:	1	163074	1/19/2022 4:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		11.38712		14.85	0	10.55109	0.038511	0.3	0	77%	36	132	8%	
Total Extractable Hydrocarbons (SGT	A	mg/L		12.13289		14.85	0	11.29288	0.032571	0.3	0	82%	60	132	7%	
o-Terphenyl (SGT)	S	mg/L		0.1742236		0.198	0	0	0.0004247	0.002	0	88%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998287	B22011136-001	HC-8015-DRO-	MS-DOD		1/25/2022 12:13:	1	163074	1/19/2022 4:	1E+07	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998287	B22011136-001	HC-8015-DRO-	MS-DOD		1/25/2022 12:13:	1	163074	1/19/2022 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		4.82225037		5	0	0	0.0879	0.3	0	96%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.088		0.1	0	0	0.000336	0.002	0	88%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998288	B22011136-001	HC-8015-DRO-	MSD-DOD		1/25/2022 1:38:2	1	163074	1/19/2022 4:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH (SGT-Oil Range)	A	mg/L		5.3156724		4.855	0	4.8222504	0.0853509	0.3	0	109%	41	113	10%	
n-Triacontane (SGT)	S	mg/L		0.096		0.0971	0	0	0.0003263	0.002	0	99%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998289	LCS-163074-RR	HC-8015-DRO-	LCS-DOD		1/25/2022 3:03:4	1	163074	1/19/2022 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		4.77240181		5	0	0	0.0879	0.3	0	95%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.089		0.1	0	0	0.000336	0.002	0	89%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998290	CCV_0124HP52	HC-8015-DRO-	CCV		1/25/2022 4:29:1	1	R373703			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		4.53375		5	0	0	0.0879	0.3	0	91%	80	120	0%	
n-Triacontane	S	mg/L		0.2028499		0.2	0	0	0.000336	0.002	0	101%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998291	CCV_0124HP53	HC-8015-DRO-	CCV		1/25/2022 5:11:4	1	R373703			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.37785		15	0	0	0.0389	0.3	0	89%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		13.8535		15	0	0	0.0749	0.3	50	92%	80	120	0%	
o-Terphenyl	S	mg/L		0.1837787		0.2	0	0	0.000429	0.002	0	92%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998292	B22011126-001	HC-8015-DRO-	SAMP		1/25/2022 7:19:3	1	163074	1/19/2022 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		0	0	0	0.0313208	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.087		0.0952	0	0	0.0003199	0.001904	0	91%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1775254		0.1904	0	0	0.0004084	0.001904	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					
14998293	MB-163074	HC-8015-DRO-	MBLK		1/25/2022 8:02:0	1	163074	1/19/2022 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		0.077		0.1	0	0	0.000336	0.002	0	77%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1580736		0.2	0	0	0.000429	0.002	0	79%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998294	B22011136-001	HC-8015-DRO-	SAMP		1/25/2022 8:44:1	1	163074	1/19/2022 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		0.081		0.099	0	0	0.0003326	0.00198	0	82%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1549775		0.198	0	0	0.0004247	0.00198	0	78%	56	125	0%	
TEH (SGT-Oil Range)	X	mg/L		0		0	0	0	0.087021	0.297	0	0%	0	0	0%	U
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998295	B22011134-001	HC-8015-DRO-	SAMP		1/25/2022 9:26:4	1	163074	1/19/2022 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			0.04410544		0	0	0	0.0329	0.3	0	0%	0	0	0%	J

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998295	B22011134-001	HC-8015-DRO-	SAMP		1/25/2022 9:26:4	1	163074	1/19/2022 4:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane (SGT)	S	mg/L		0.088		0.1	0	0	0.000336	0.002	0	88%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1201836		0.2	0	0	0.000429	0.002	0	60%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998296	B22011134-002	HC-8015-DRO-	SAMP		1/25/2022 10:09:	1	163074	1/19/2022 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		0.04540747			0	0	0	0.039289	0.303	0	0%	0	0	0%	J
Oil Range Hydrocarbons (SGT-C24 t A	mg/L		0			0	0	0	0.088779	0.303	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L		0.05270827			0	0	0	0.033229	0.303	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.093		0.101	0	0	0.0003394	0.00202	0	92%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1963597		0.202	0	0	0.0004333	0.00202	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					
14998297	B22011135-001	HC-8015-DRO-	SAMP		1/25/2022 11:34:	1	163074	1/19/2022 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	0.039289	0.303	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L		0			0	0	0	0.088779	0.303	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L		0			0	0	0	0.033229	0.303	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.079		0.101	0	0	0.0003394	0.00202	0	78%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1663615		0.202	0	0	0.0004333	0.00202	0	82%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998298	B22011137-001	HC-8015-DRO-	SAMP		1/25/2022 12:16:	1	163074	1/19/2022 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		0.413486			0	0	0	0.0377719	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t A	mg/L		0			0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L		0.4255574			0	0	0	0.0319459	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.083		0.0971	0	0	0.0003263	0.001942	0	85%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1409088		0.1942	0	0	0.0004166	0.001942	0	73%	56	125	0%	



Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998299	B22011214-001	HC-8015-DRO-	SAMP		1/25/2022 12:59:	1	163074	1/20/2022 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		0.076		0.1	0	0	0.000336	0.002	0	76%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1490388		0.2	0	0	0.000429	0.002	0	75%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998300	CCV_0124HP54	HC-8015-DRO-	CCV		1/25/2022 2:24:4	1	R373703			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		4.45913672		5	0	0	0.0879	0.3	0	89%	80	120	0%	
n-Triacontane	S	mg/L		0.1997785		0.2	0	0	0.000336	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					
14998301	CCV_0124HP54	HC-8015-DRO-	CCV		1/25/2022 3:07:0	1	R373703			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.33436		15	0	0	0.0389	0.3	0	89%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		13.78568		15	0	0	0.0749	0.3	50	92%	80	120	0%	
o-Terphenyl	S	mg/L		0.1832087		0.2	0	0	0.000429	0.002	0	92%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998302	B22011227-001	HC-8015-DRO-	SAMP		1/25/2022 5:14:4	1	163074	1/20/2022 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	0.039289	0.303	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.088779	0.303	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.033229	0.303	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.074		0.101	0	0	0.0003394	0.00202	0	73%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1580607		0.202	0	0	0.0004333	0.00202	0	78%	56	125	0%	

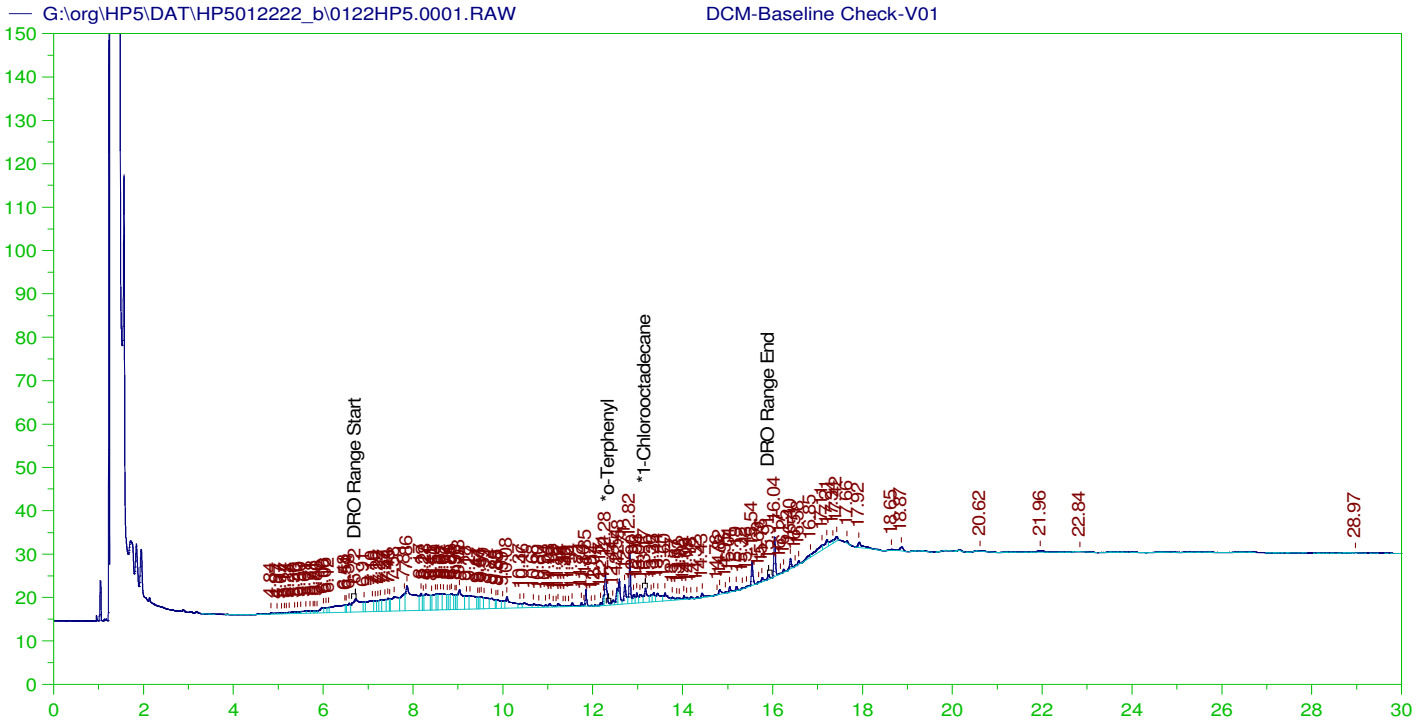
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998303	B22011228-001	HC-8015-DRO-	SAMP		1/25/2022 5:57:4	1	163074	1/20/2022 2:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			0		0	0	0	0.038122	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.086142	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0		0	0	0	0.032242	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.08		0.098	0	0	0.0003293	0.00196	0	82%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.166846		0.196	0	0	0.0004204	0.00196	0	85%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998304	B22011128-001	HC-8015-DRO-	SAMP		1/25/2022 7:23:3	1	163074	1/19/2022 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	0.0377719	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.0853509	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0		0	0	0	0.0319459	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.082		0.0971	0	0	0.0003263	0.001942	0	84%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1735847		0.1942	0	0	0.0004166	0.001942	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					
14998305	B22011129-001	HC-8015-DRO-	SAMP		1/25/2022 8:06:2	1	163074	1/19/2022 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		0	0	0	0.0313208	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.07		0.0952	0	0	0.0003199	0.001904	0	74%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1341837		0.1904	0	0	0.0004084	0.001904	0	70%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998306	CCV_0124HP55	HC-8015-DRO-	CCV		1/25/2022 9:31:5	1	R373703		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		4.42076123		5	0	0	0.0879	0.3	0	88%	80	120	0%	
n-Triacontane	S	mg/L		0.1980869		0.2	0	0	0.000336	0.002	0	99%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14998307	CCV_0124HP55	HC-8015-DRO-	CCV		1/25/2022 10:14:	1	R373703		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.14187		15	0	0	0.0389	0.3	0	88%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		13.5927		15	0	0	0.0749	0.3	50	91%	80	120	0%	
o-Terphenyl	S	mg/L		0.1800096		0.2	0	0	0.000429	0.002	0	90%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\org\HP5\DAT\HP5012222_b0122HP5.01	DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.02	DCM-Baseline Check-V02	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.03	MARKER_0122HP503r, DRO :0122HP5 , DRO220111A	G:\Org\HP5\Methods\CSC220120.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.04	CCV_0122HP504r, RRO :0122HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.05	CCV_0122HP505r, DRO :0122HP5 , DRO220114A	G:\Org\HP5\Methods\DC_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.06	DCM-Baseline Check-V06	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.07	DCM-Baseline Check-V07	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.08	LCS-163074 :0122HP5 ,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.09	MB-163074 :0122HP5 ,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.10	B22011133-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	970	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.11	B22011130-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1050	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.12	B22011127-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1050	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.13	DCM-Baseline Check-V13	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.14	B22011124-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.15	B22011136-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1010	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.16	B22011136-001DMS :0122HP5 ,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1010	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.17	B22011136-001DMSD :0122HP5 ,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1010	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.18	MARKER_0122HP518r, DRO :0122HP5 , DRO220111A	G:\Org\HP5\Methods\CSC220120.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.19	CCV_0122HP519r, RRO :0122HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.20	CCV_0122HP520r, DRO :0122HP5 , DRO220114A	G:\Org\HP5\Methods\DC_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.21	DCM-Baseline Check-V21	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.22	DCM-Baseline Check-V22	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.23	B22011131-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1050	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.24	B22011137-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1030	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.25	DCM-Baseline Check-V25	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.26	B22011132-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1010	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.27	B22011134-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.28	B22011134-002B :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	990	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.29	DCM-Baseline Check-V29	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.30	B22011126-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1050	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.31	B22011128-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_OROS-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1030	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.32	B22011125-001D :0122HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DS_8015-012232-JB-L%.met G:\Org\HP5\Methods\DS_OROS-012232-BBb-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	990	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.33	MARKER_0122HP533r, DRO :0122HP5 , DRO220111A	G:\Org\HP5\Methods\CSC220120.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.34	CCV_0122HP534r, RRO :0122HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.35	CCV_0122HP535r, DRO :0122HP5 , DRO220114A	G:\Org\HP5\Methods\DC_8015-C24-JB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JB-L%.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.36	DCM-Baseline Check-V36	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.37	DCM-Baseline Check-V37	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.38	B22011228-001D :0122HP5 , \$HC-8015-DRO-W, Needs Rerun due to ending CVV not poking	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1020	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.39	B22011135-001D :0122HP5 , \$HC-8015-DRO-W, Needs Rerun due to ending CVV not poking	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	990	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.40	B22011129-001D :0122HP5 , \$HC-8015-DRO-W, Needs Rerun due to ending CVV not poking	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1050	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.41	DCM-Baseline Check-V41	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.42	B22011214-001D :0122HP5 , \$HC-8015-DRO-W, Needs rr due to baseline	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.43	B22011227-001D :0122HP5 , \$HC-8015-DRO-W, Needs rr due to baseline	G:\Org\HP5\Methods\DR_8015-C24-JB-L%.met	990	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.44	LCS-163074-RRO :0122HP5 ,	G:\Org\HP5\Methods\DS_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.45	DCM-Baseline Check-V45	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.46	B22011136-001DMS-RRO :0122HP5 ,	G:\Org\HP5\Methods\DS_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1000	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.47	B22011136-001DMSD-RRO :0122HP5 ,	G:\Org\HP5\Methods\DS_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1030	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.48	MARKER_0122HP548r, DRO :0122HP5 , DRO220111A	G:\Org\HP5\Methods\CSC220120.met	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.49	CCV_0122HP549r, RRO :0122HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\DS_ORO-BB-L%.MET	1	1	1	1	0	
G:\org\HP5\DAT\HP5012222_b0122HP5.50	CCV_0122HP550r, DRO :0122HP5 , DRO220114A-lost communication with acquisition did not poke any vial just ran	G:\Org\HP5\Methods\DC_8015-C24-JB-L0.met	1	1	1	1	0	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\org\HP5\DATA\HP5012422_b0124HP5.01r		DCM-Baseline Check-V01	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.02r		MARKER_0124HP502r, DRO_0124HP5 , DRO220111A	G:\org\HP5\Methods\I\CS220124.met	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.03r		CCV_0124HP503r, DRO_0124HP5 , DRO220114A	G:\Org\HP5\Methods\DC_8015-C24-JC-L%.met G:\Org\HP5\Methods\DS_8015-C24-JC-L#.met	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.04r		CCV_0124HP504r, RRO_0124HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BC-L%.MET G:\Org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.05r		DCM-Baseline Check-V05	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.06r		DCM-Baseline Check-V06	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.07r		B22011227-001D_0124HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\DR_8015-012407-JC-L%.met G:\Org\HP5\Methods\DR_OROS-012407-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	990	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.08r		B22011214-001D_0124HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-JC-L%.met G:\Org\HP5\Methods\D3_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	1000	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.09r		B22011228-001D_0124HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-012409-JC-L%.met G:\Org\HP5\Methods\D3_OROS-012409-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	1020	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.10r		B22011135-001D_0124HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-012410-JC-L%.met G:\Org\HP5\Methods\D3_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	990	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.11r		B22011129-001D_0124HP5 , \$HC-8015-DRO-W,	G:\Org\HP5\Methods\D3_8015-C24T-JC-L%.met G:\Org\HP5\Methods\D3_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	1050	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.12r		MARKER_0124HP512r, DRO_0124HP5 , DRO220111A	G:\org\HP5\Methods\I\CS220124.met	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.13r		CCV_0124HP513r, RRO_0124HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BC-L%.MET G:\Org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	0
G:\org\HP5\DATA\HP5012422_b0124HP5.14r		CCV_0124HP514r, DRO_0124HP5 , DRO220114A	G:\Org\HP5\Methods\DC_8015-C24-JC-L%.met G:\Org\HP5\Methods\DS_8015-C24-JC-L#.met	1	1	1	1	0

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj	IS	Cal ID
		Insert Entries(Have the first cell for entries select)						
G:\org\HP5\DAT\HP5012422_b\0124HP5.12r	MARKER_0124HP512r_DRO_0124HP5_DRO220111A	MARKER_0124HP512r_DRO_0124HP5_DRO220111A	G:\org\HP5\Methods\CSC220124.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.13r	CCV_0124HP513r_RRO_0124HP5_DRO220118A	CCV_0124HP513r_RRO_0124HP5_DRO220118A	G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.14r	CCV_0124HP514r_DRO_0124HP5_DRO220114A	CCV_0124HP514r_DRO_0124HP5_DRO220114A	G:\org\HP5\Methods\DC_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.15r	DCM-Baseline Check-V15	DCM-Baseline Check-V15	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.16r	DCM-Baseline Check-V16	DCM-Baseline Check-V16	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.17r	LCS-163074_0124HP5_SGT	LCS-163074_0124HP5_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.18r	MB-163074_0124HP5_SGT-Needs rerun due to baseline rise	MB-163074_0124HP5_SGT-Needs rerun due to baseline rise	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.19r	B22011125-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011125-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET	990	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.20r	B22011136-001D_0124HP5_SHC-8015-DRO-W_SGT-Needs rerun due to baseline rise	B22011136-001D_0124HP5_SHC-8015-DRO-W_SGT-Needs rerun due to baseline rise	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met	1010	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.21r	B22011136-001DMS_0124HP5_SGT	B22011136-001DMS_0124HP5_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1010	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.22r	B22011136-001DMSD_0124HP5_SGT	B22011136-001DMSD_0124HP5_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1010	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.23r	B22011136-001DMS-RRO_0124HP5_SGT	B22011136-001DMS-RRO_0124HP5_SGT	G:\org\HP5\Methods\DR_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.24r	DCM-Baseline Check-V24	DCM-Baseline Check-V24	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.25r	B22011136-001DMSD-RRO_0124HP5_SGT	B22011136-001DMSD-RRO_0124HP5_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1030	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.26r	DCM-Baseline Check-V26	DCM-Baseline Check-V26	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.27r	LCS-163074-RRO_0124HP5_SGT	LCS-163074-RRO_0124HP5_SGT	G:\org\HP5\Methods\DR_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.28r	MARKER_0124HP528r_DRO_0124HP5_DRO220111A	MARKER_0124HP528r_DRO_0124HP5_DRO220111A	G:\org\HP5\Methods\CSC220124.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.29r	CCV_0124HP529r_RRO_0124HP5_DRO220118A	CCV_0124HP529r_RRO_0124HP5_DRO220118A	G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.30r	CCV_0124HP530r_DRO_0124HP5_DRO220124A	CCV_0124HP530r_DRO_0124HP5_DRO220124A	G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.31r	DCM-Baseline Check-V31	DCM-Baseline Check-V31	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.32r	DCM-Baseline Check-V32	DCM-Baseline Check-V32	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.33r	B22011126-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011126-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.34r	MB-163074_0124HP5_RR-SGT	MB-163074_0124HP5_RR-SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.35r	B22011136-001D_0124HP5_SHC-8015-DRO-W_RR-SGT	B22011136-001D_0124HP5_SHC-8015-DRO-W_RR-SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET	1010	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.36r	B22011134-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011134-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.37r	B22011134-002B_0124HP5_SHC-8015-DRO-W_SGT	B22011134-002B_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	990	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.38r	DCM-Baseline Check-V38	DCM-Baseline Check-V38	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.39r	B22011135-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011135-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	990	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.40r	B22011137-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011137-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET	1030	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.41r	B22011214-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011214-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1000	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.42r	MARKER_0124HP542r_DRO_0124HP5_DRO220111A	MARKER_0124HP542r_DRO_0124HP5_DRO220111A	G:\org\HP5\Methods\CSC220124.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.43r	CCV_0124HP543r_RRO_0124HP5_DRO220118A	CCV_0124HP543r_RRO_0124HP5_DRO220118A	G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.44r	CCV_0124HP544r_DRO_0124HP5_DRO220124A	CCV_0124HP544r_DRO_0124HP5_DRO220124A	G:\org\HP5\Methods\DC_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.45r	DCM-Baseline Check-V45	DCM-Baseline Check-V45	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.46r	DCM-Baseline Check-V46	DCM-Baseline Check-V46	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.47r	B22011227-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011227-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	990	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.48r	B22011228-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011228-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1020	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.49r	DCM-Baseline Check-V49	DCM-Baseline Check-V49	G:\org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.50r	B22011128-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011128-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1030	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.51r	B22011129-001D_0124HP5_SHC-8015-DRO-W_SGT	B22011129-001D_0124HP5_SHC-8015-DRO-W_SGT	G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1050	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.52r	MARKER_0124HP552r_DRO_0124HP5_DRO220111A	MARKER_0124HP552r_DRO_0124HP5_DRO220111A	G:\org\HP5\Methods\CSC220124.met	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.53r	CCV_0124HP553r_RRO_0124HP5_DRO220118A	CCV_0124HP553r_RRO_0124HP5_DRO220118A	G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	0
G:\org\HP5\DAT\HP5012422_b\0124HP5.54r	CCV_0124HP554r_DRO_0124HP5_DRO220124A	CCV_0124HP554r_DRO_0124HP5_DRO220124A	G:\org\HP5\Methods\DC_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	0



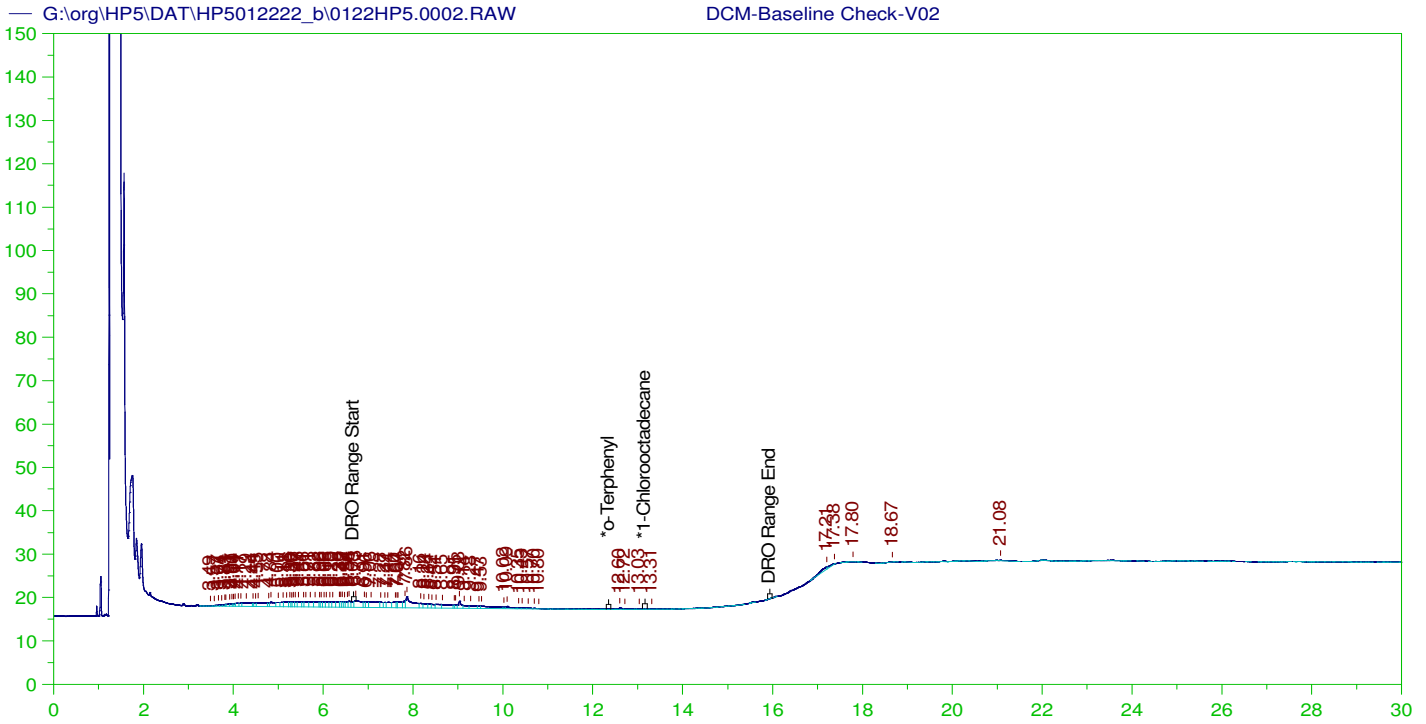
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V01  
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 Date & Time Acquired: 1/22/2022 10:15:51 AM  
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 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.971	200.	.	-
*1-Chlorooctadecane	13.166	200.	.441	.22

DRO Area: 909998 DRO Amount: 27.84967  
 TEH Area: 1102300 TEH Amount: 33.7349



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V02  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0002.RAW  
 Date & Time Acquired: 1/22/2022 10:58:13 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

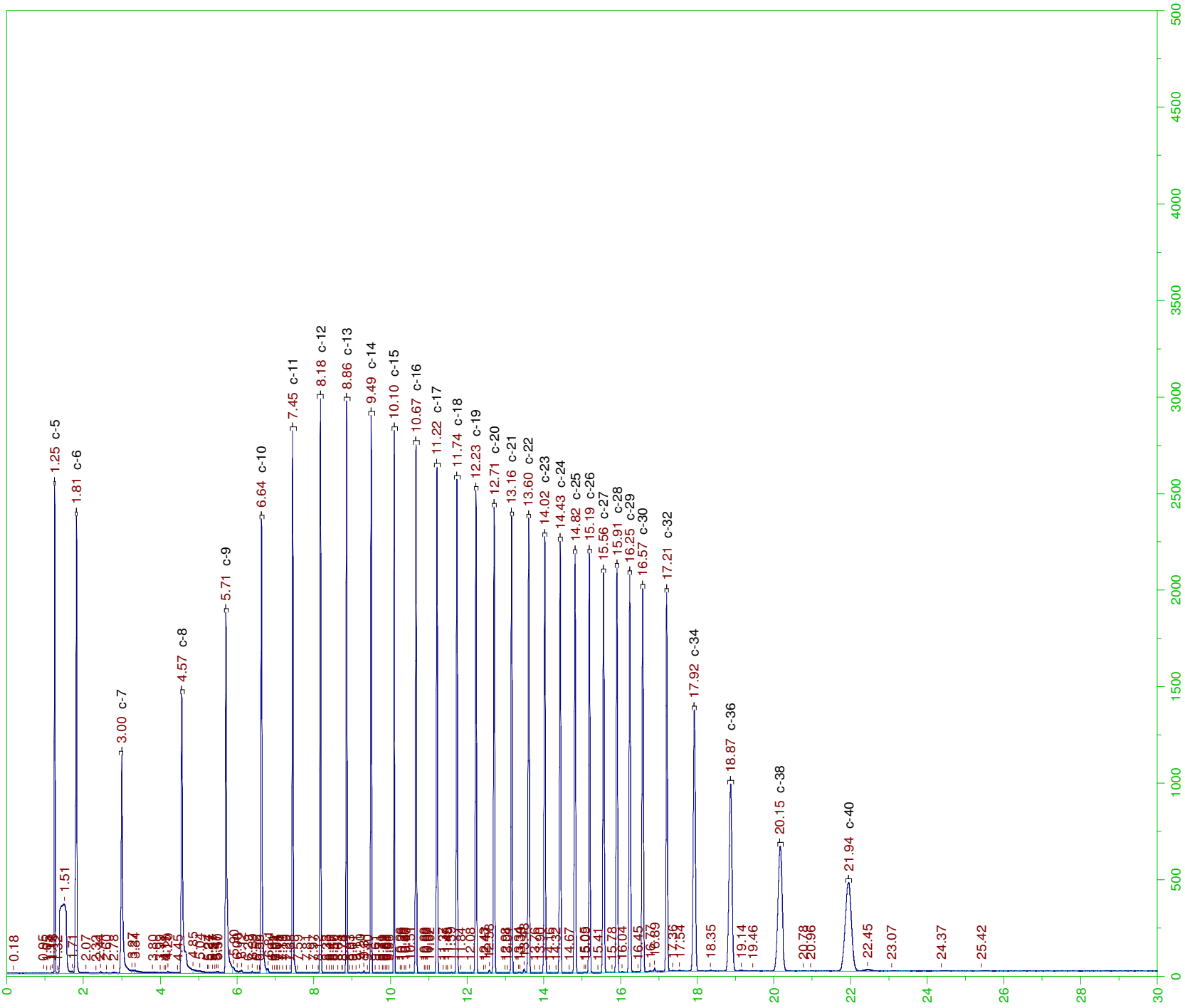
Mean RF for TEH: 32675.36

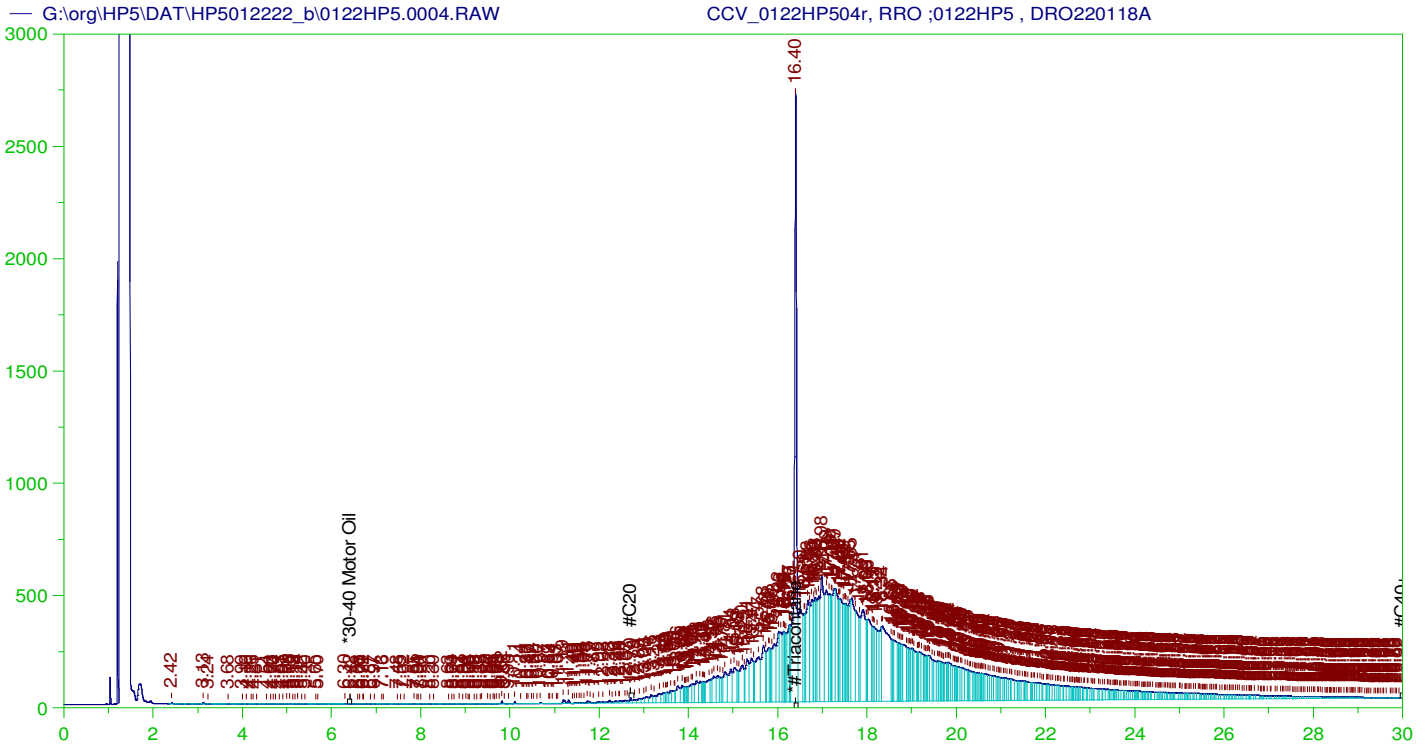
Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.985	200.	.	-
*1-Chlorooctadecane	29.985	200.	.	-

DRO Area:216019.8 DRO Amount: 6.611093  
 TEH Area:418614 TEH Amount: 12.81131







**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP504r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0004.RAW  
 Date & Time Acquired: 1/22/2022 12:23:23 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.399	500.	326.875	65.37	-

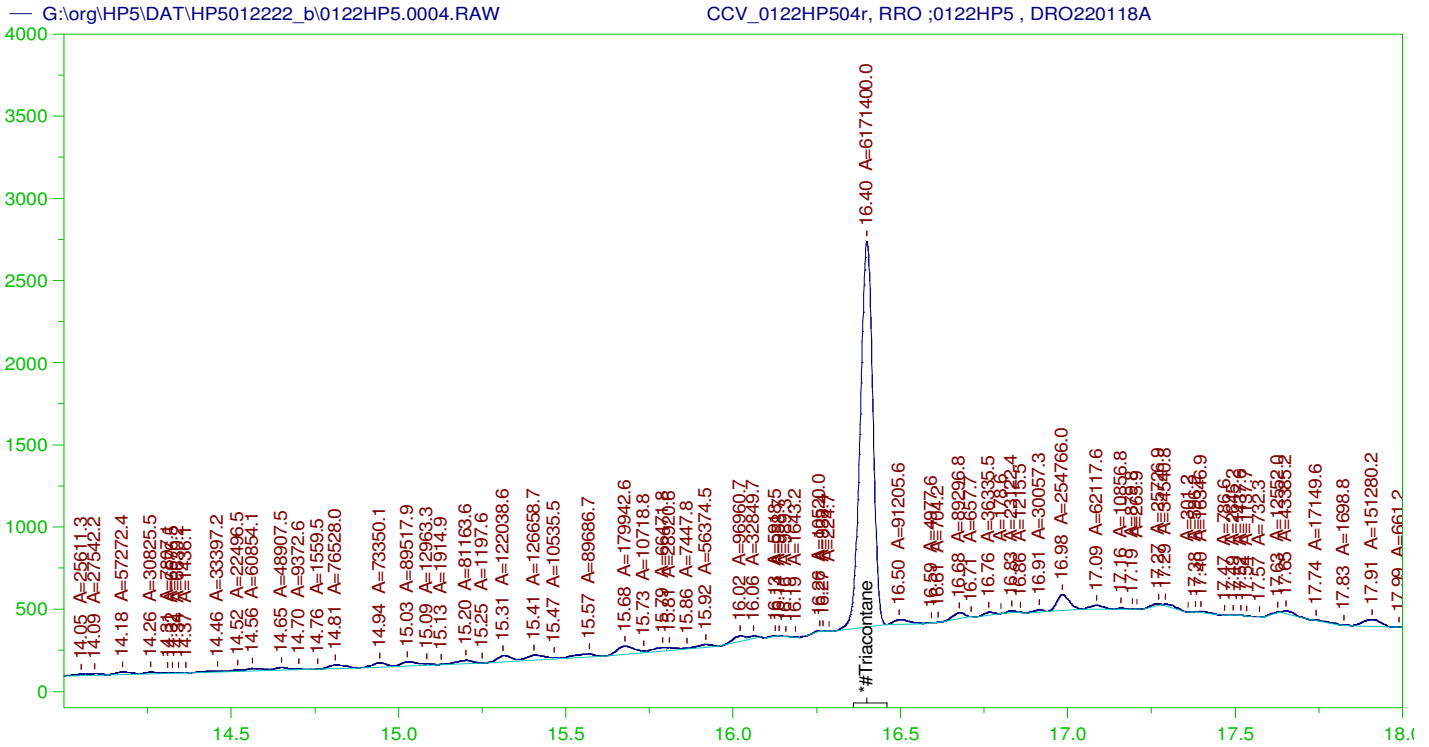
RRO TEH(Oil Range) Area:1.21216E+08 RRO TEH(Oil Range) AMOUNT: 4587.25

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0004.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.399	200.	326.875	163.44	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP504r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0004.RAW  
 Date & Time Acquired: 1/22/2022 12:23:23 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.67 to 30.05

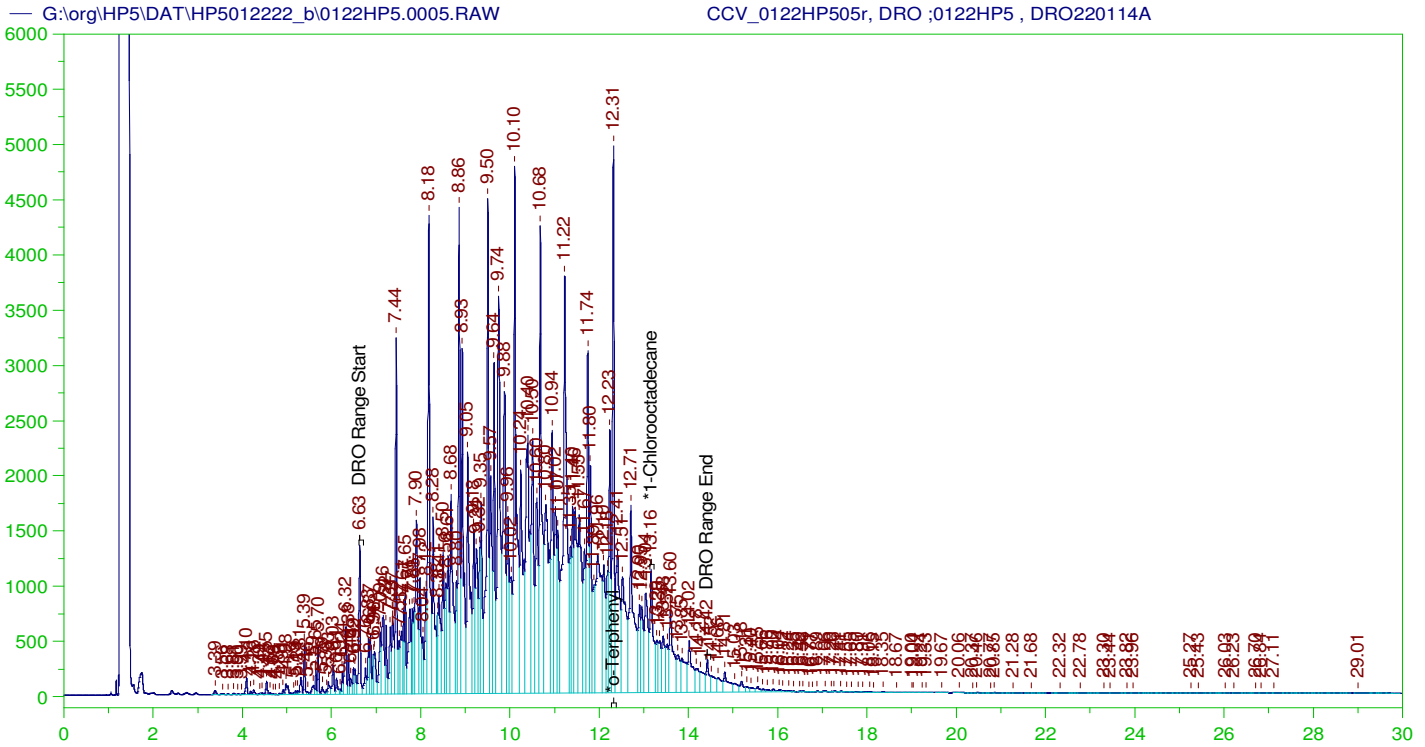
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.399	500.	208.239	41.65	-

RRO Area:3046862 RRO AMOUNT: 115.3042

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0004.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.399	200.	208.239	104.12	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP505r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0005.RAW  
 Date & Time Acquired: 1/22/2022 1:05:51 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JB-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.314	200.	330.973	165.49
*1-Chlorooctadecane	13.16	200.	154.387	77.19

DRO Area: 4.676752E+08 DRO Amount: 14312.78  
 TEH Area: 4.846842E+08 TEH Amount: 14833.32

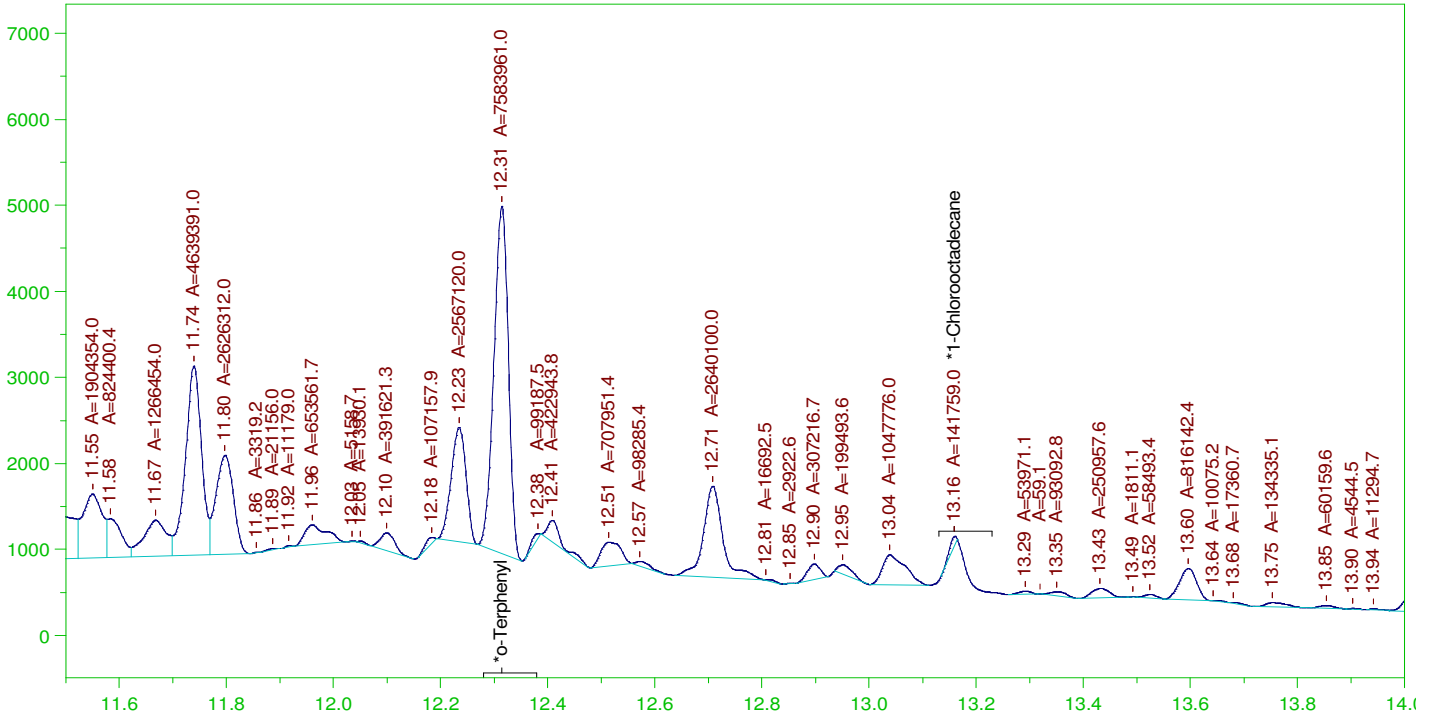
**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0005.RAW**

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14833.32	98.89	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.314	200.	330.973	165.49	85-115
*1-Chlorooctadecane	13.16	200.	154.387	77.19	85-115

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0005.RAW

CCV\_0122HP505r, DRO ;0122HP5 , DRO220114A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP505r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0005.RAW  
 Date & Time Acquired: 1/22/2022 1:05:51 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JB-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

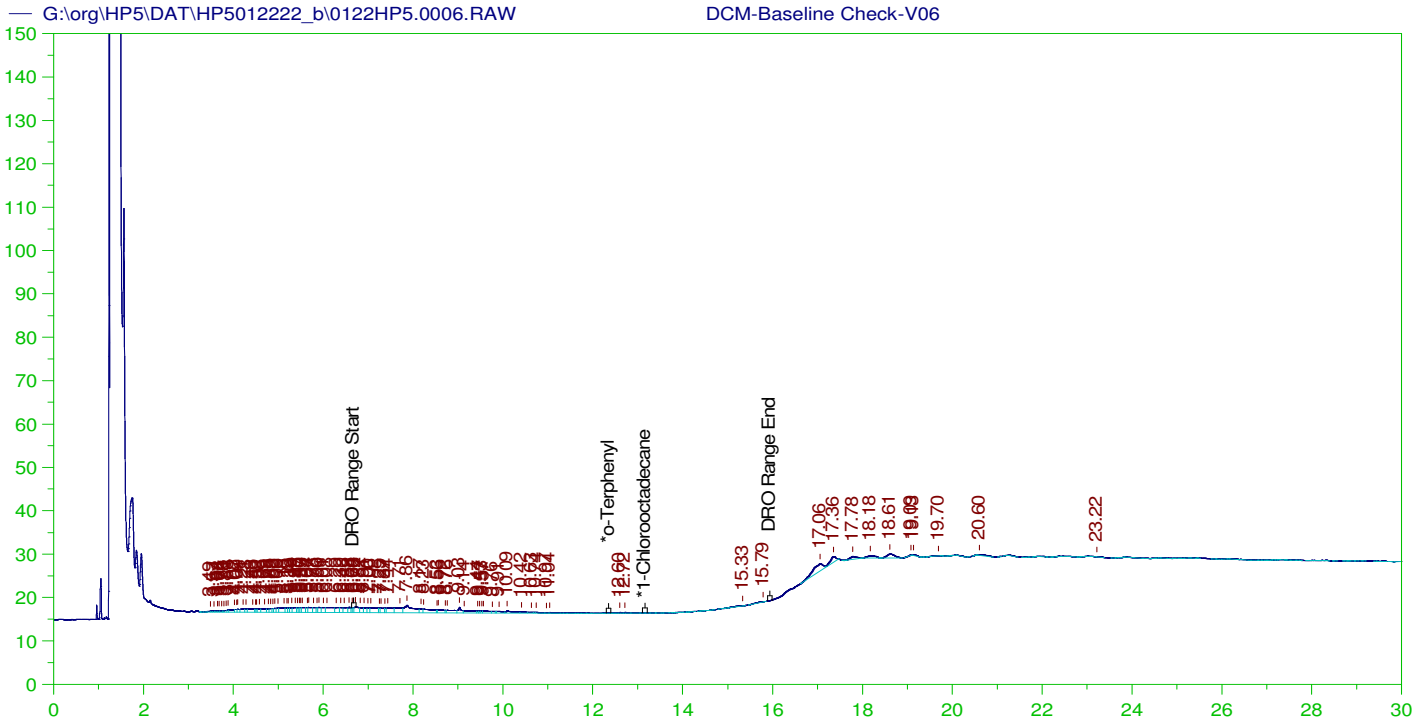
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.314	200.	205.762	102.88
*1-Chlorooctadecane	13.16	200.	3.846	1.92

DRO Area: 2.416375E+08 DRO Amount: 7395.099  
 TEH Area: 2.523883E+08 TEH Amount: 7724.116

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0005.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7724.12	51.49	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.314	200.	205.762	102.88	85-115
*1-Chlorooctadecane	13.16	200.	3.846	1.92	85-115



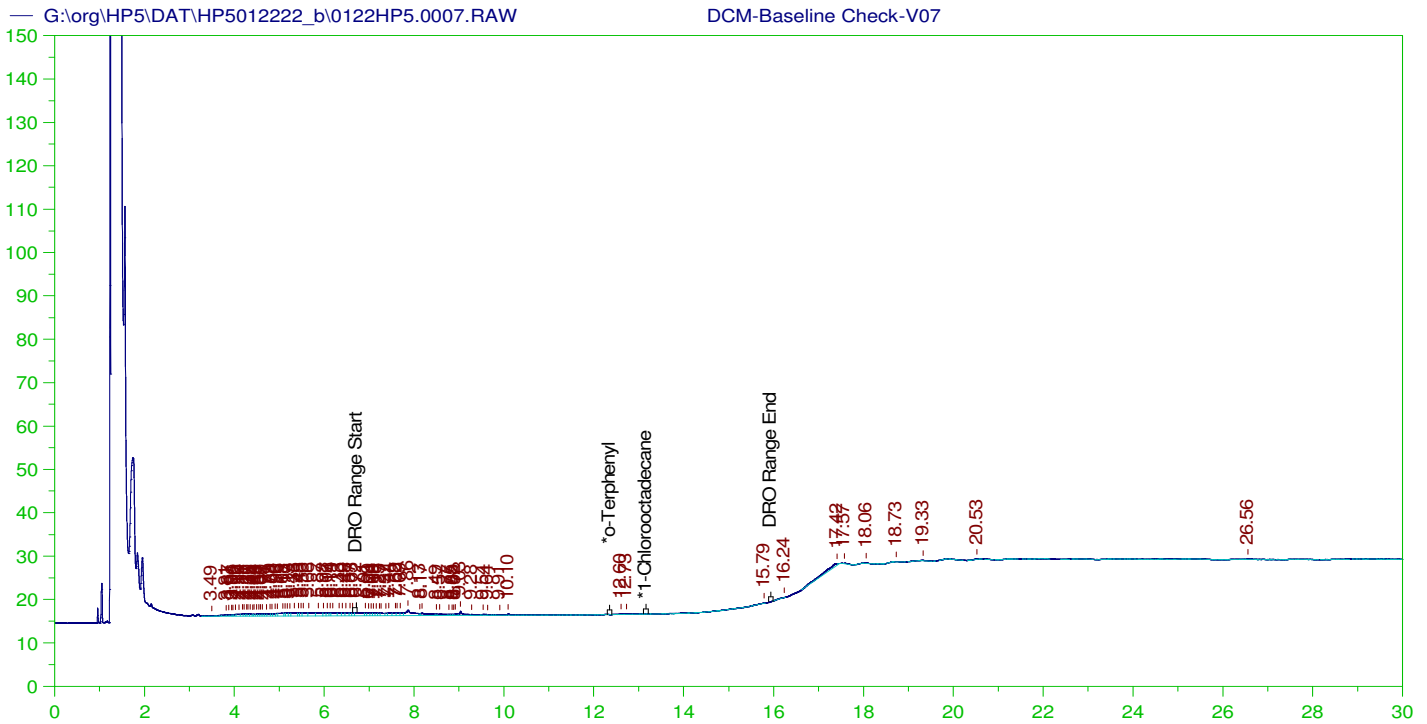
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V06  
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 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.963	200.	.	-
*1-Chlorooctadecane	29.963	200.	.	-

DRO Area:182864 DRO Amount: 5.59639  
 TEH Area:432282.7 TEH Amount: 13.22962



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V07  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0007.RAW  
 Date & Time Acquired: 1/22/2022 2:31:08 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

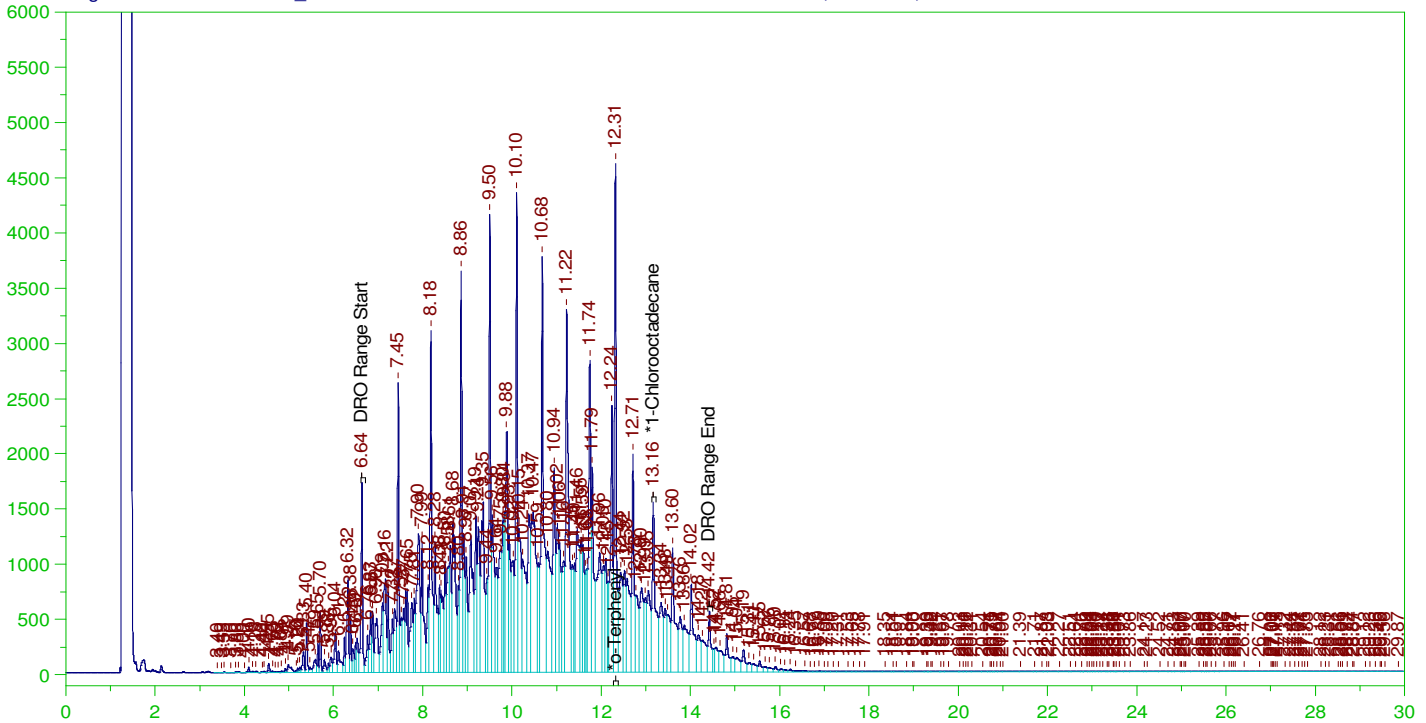
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.915	200.	.	-
*1-Chlorooctadecane	29.915	200.	.	-

DRO Area:92756.09 DRO Amount: 2.838717  
 TEH Area:220008.3 TEH Amount: 6.733156

Batch ID: 163074

LCS-163074 ;0122HP5 ,

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0008.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-163074 ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0008.RAW  
 Date & Time Acquired: 1/22/2022 3:13:41 PM  
 Method File: G:\Org\HP5\Methods\D3\_8015-C24-JB-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.314	.2	.339	169.56	-
*1-Chlorooctadecane	13.164	.2	.199	99.55	-

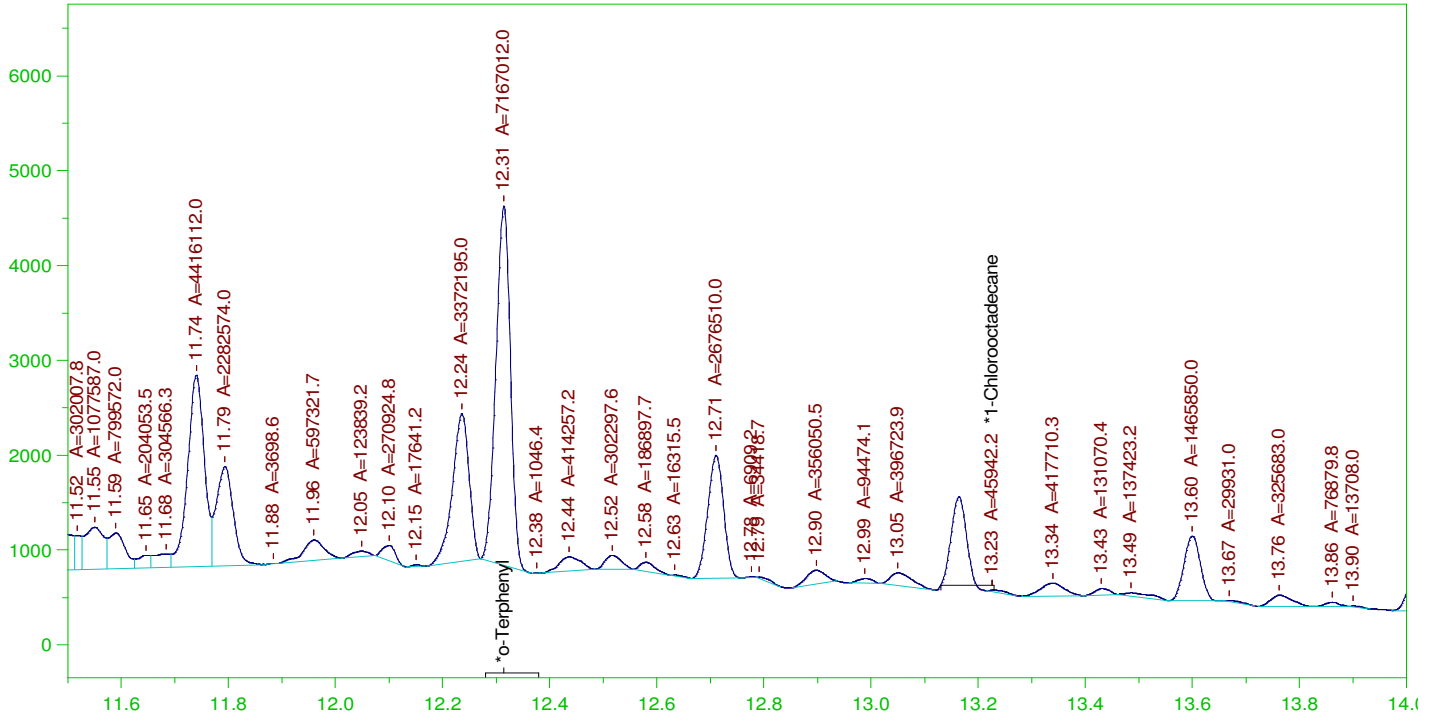
DRO Area: 4.066252E+08 DRO Amount: 12.4444  
 TEH Area: 4.337861E+08 TEH Amount: 13.27563



Batch ID: 163074

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LCS-163074 ;0122HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

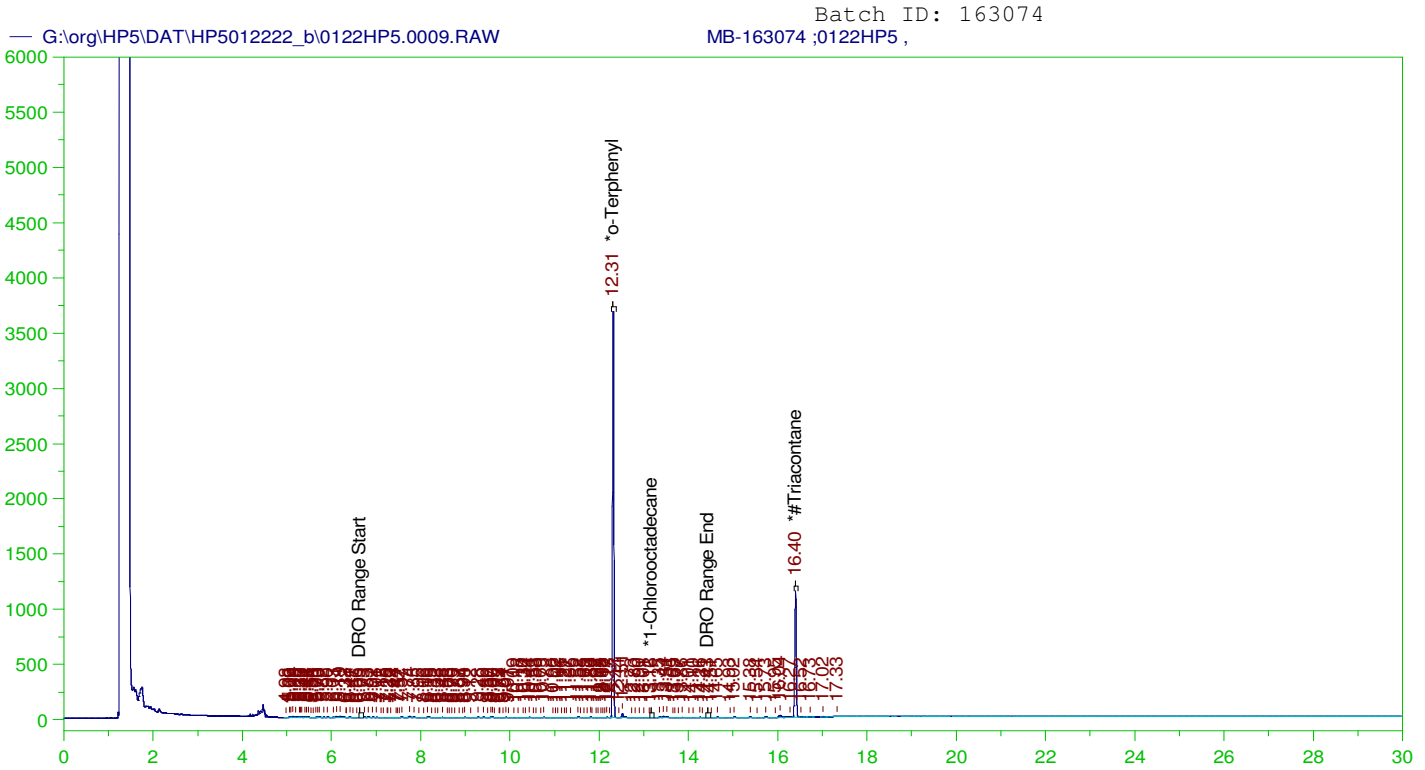
Sample Name: LCS-163074 ;0122HP5 ,  
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 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.314	.2	.194	97.23
*1-Chlorooctadecane	13.226	.2	.001	.62

DRO Area: 1.903552E+08 DRO Amount: 5.82565  
 TEH Area: 2.03395E+08 TEH Amount: 6.224721



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-163074 ;0122HP5 ,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0009.RAW  
Date & Time Acquired: 1/22/2022 3:56:20 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

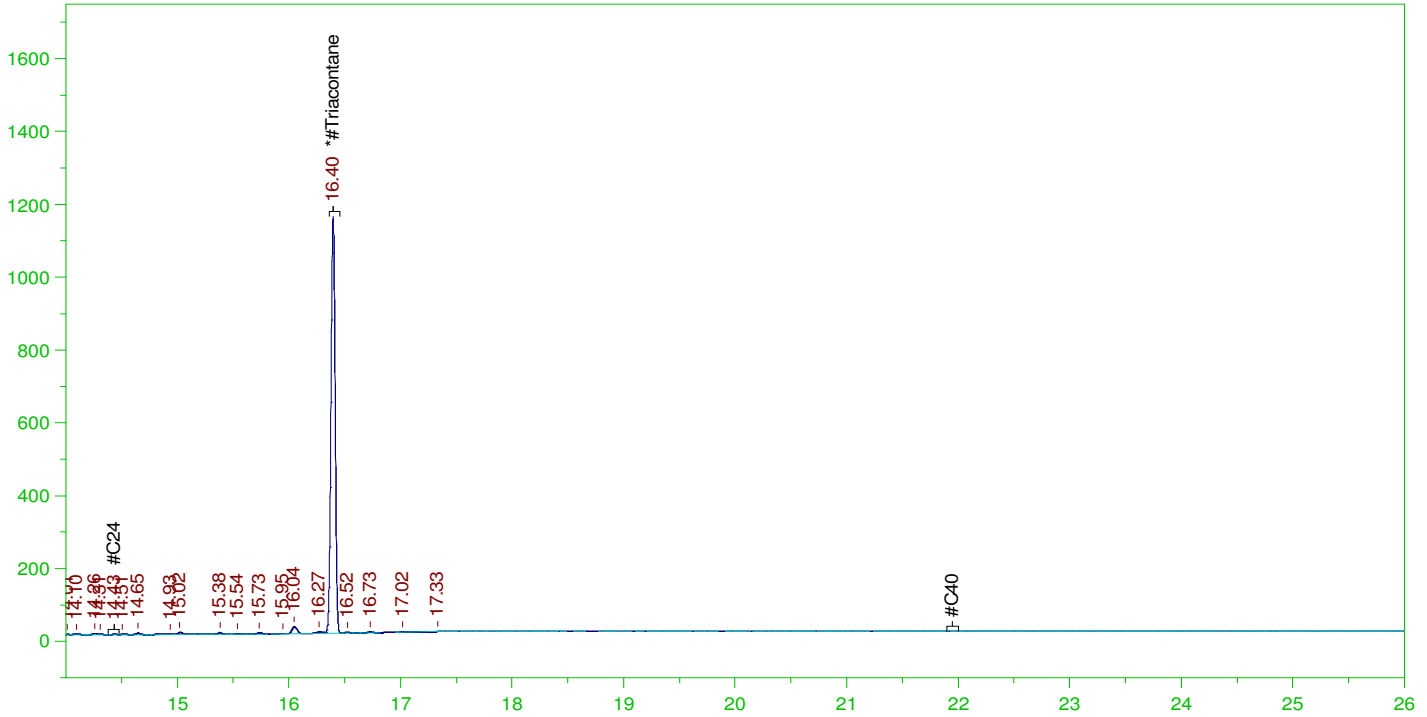
Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.31	.2	.19	95.08 -
*1-Chlorooctadecane	13.164	.2	.03	-
*#Triacontane	16.396	.2	.1	49.86 -

DRO Area: 601706.3 DRO Amount: 1.841468E-02  
TEH Area: 972402.9 TEH Amount: 2.975952E-02

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0009.RAW

MB-163074 ;0122HP5 ,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-163074 ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0009.RAW  
 Date & Time Acquired: 1/22/2022 3:56:20 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.38 to 22

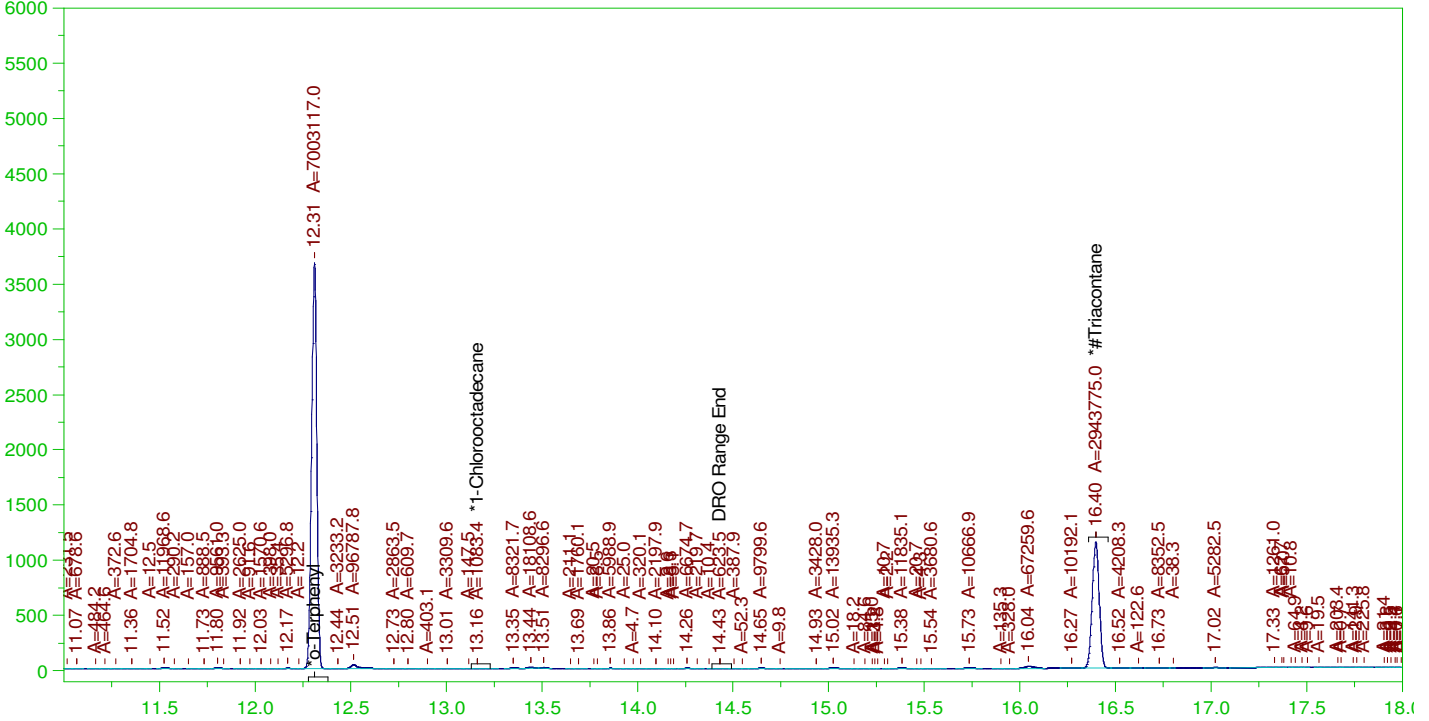
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.396	.5	.1	19.94 -

RRO Area:170165.5 RRO AMOUNT: 6.439672E-03

Batch ID: 163074

MB-163074 ;0122HP5 ,

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0009.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-163074 ;0122HP5 ,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0009.RAW  
Date & Time Acquired: 1/22/2022 3:56:20 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.31	.2	.19	95.
*1-Chlorooctadecane	13.164	.2	.01	-
*#Triacontane	16.396	.2	.099	49.67

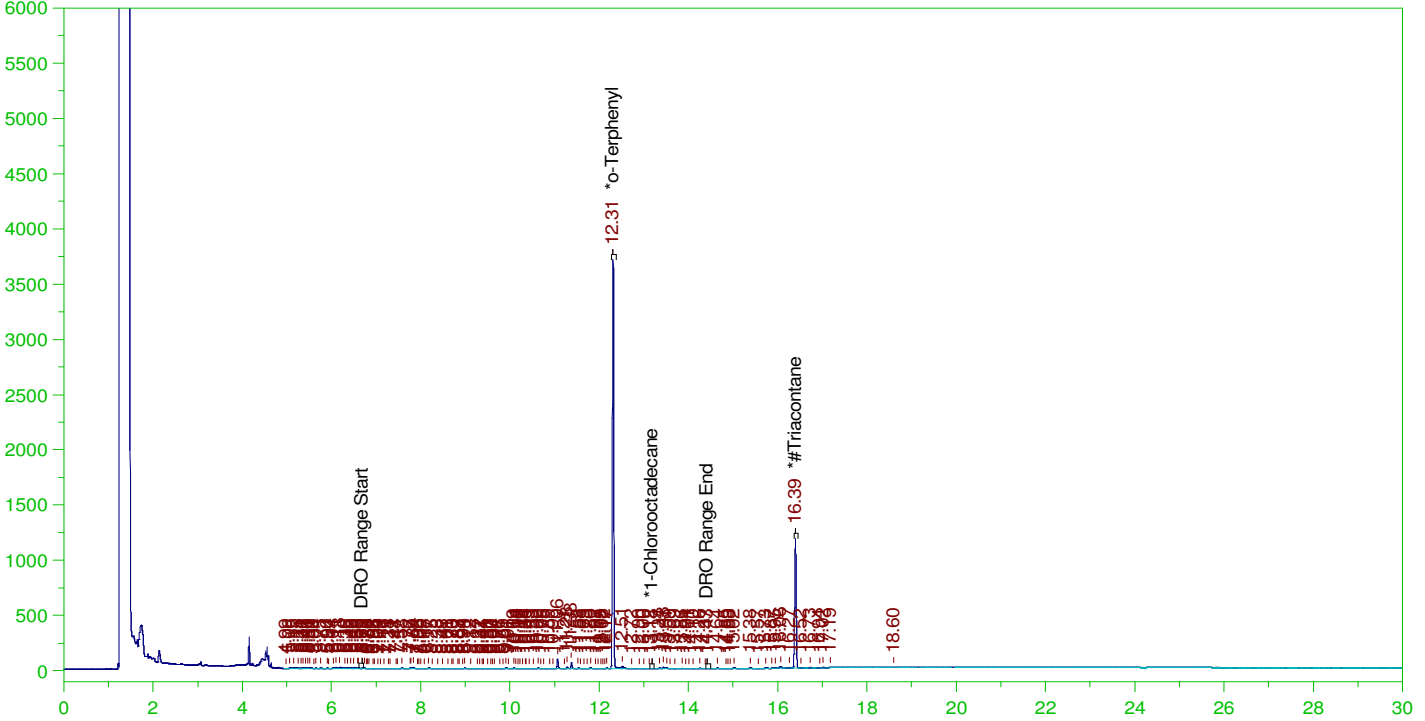
DRO Area:470968.8 DRO Amount: 1.441358E-02  
TEH Area:1767367 TEH Amount: 5.408867E-02

ERH2444 (OWDFMW01)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0010.RAW

B22011133-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011133-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0010.RAW  
Date & Time Acquired: 1/22/2022 4:38:57 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 970 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.206	.201	97.31	-
*1-Chlorooctadecane	13.177	.206	.	.07	-
*#Triacontane	16.393	.206	.104	50.61	-

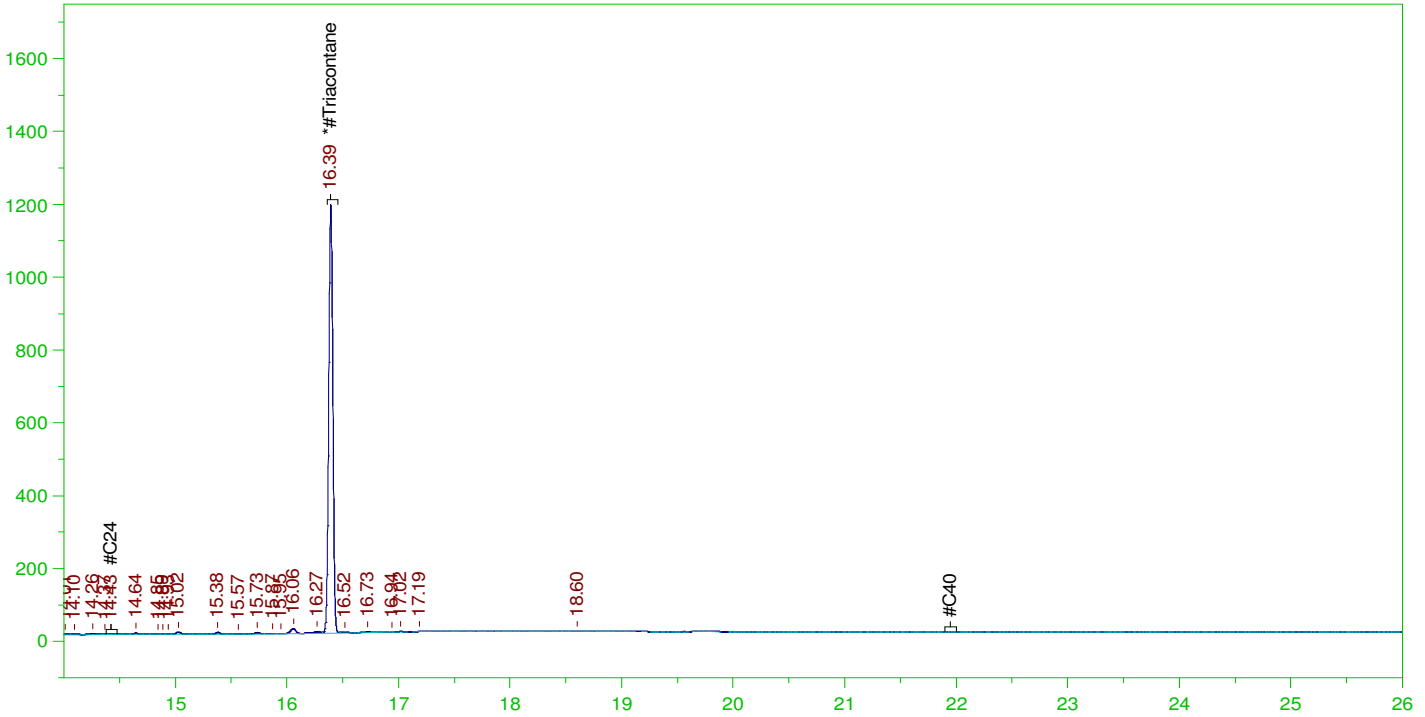
DRO Area:796086.2 DRO Amount: 2.511701E-02  
TEH Area:1185946 TEH Amount: 3.741732E-02

ERH2444 (OWDFMW01)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0010.RAW

B22011133-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011133-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0010.RAW  
Date & Time Acquired: 1/22/2022 4:38:57 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 970 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.393	.515	.104	20.24

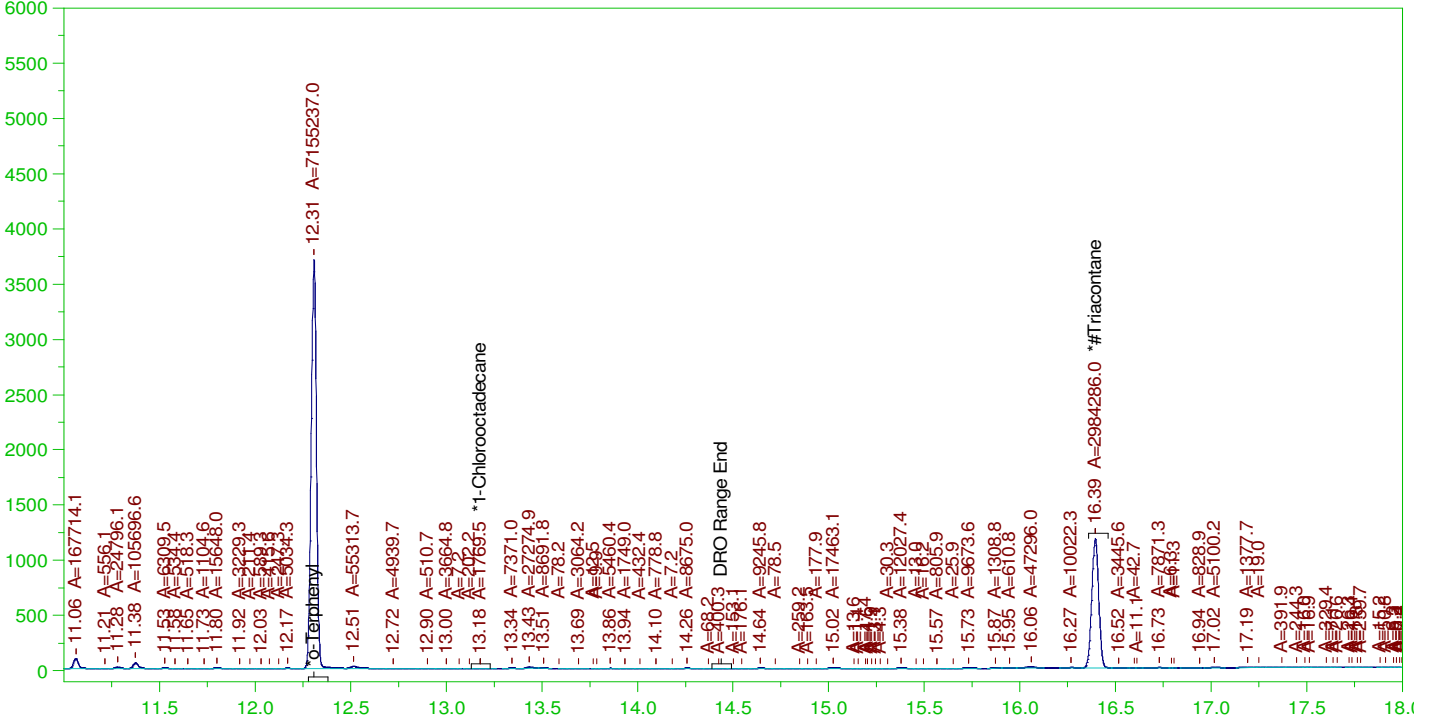
RRO Area:151454.3 RRO AMOUNT: 5.908842E-03

ERH2444 (OWDFMW01)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0010.RAW

B22011133-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011133-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0010.RAW  
Date & Time Acquired: 1/22/2022 4:38:57 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 970 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.206	.2	97.07	-
*1-Chlorooctadecane	13.177	.206	.	.02	-
*#Triacontane	16.393	.206	.104	50.35	-

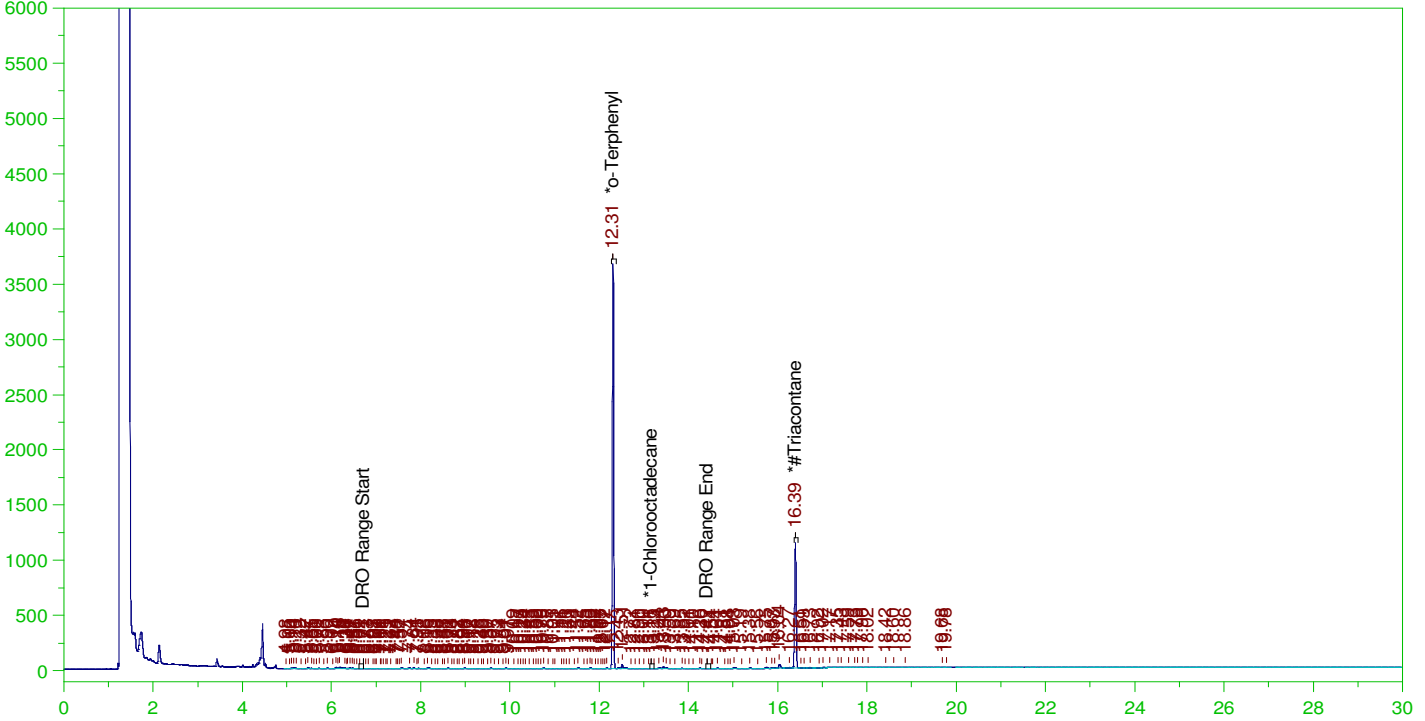
DRO Area:691580.6 DRO Amount: 2.181979E-02  
TEH Area:3448091 TEH Amount: 0.1087894

ERH2458 (RHMW16)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0011.RAW

B22011130-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011130-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0011.RAW  
Date & Time Acquired: 1/22/2022 5:21:49 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.19	.18	94.44	-
*1-Chlorooctadecane	13.162	.19	.	.06	-
*#Triacontane	16.392	.19	.094	49.15	-

DRO Area:696204.8

DRO Amount: 2.029211E-02

TEH Area:1196130

TEH Amount: 3.486333E-02

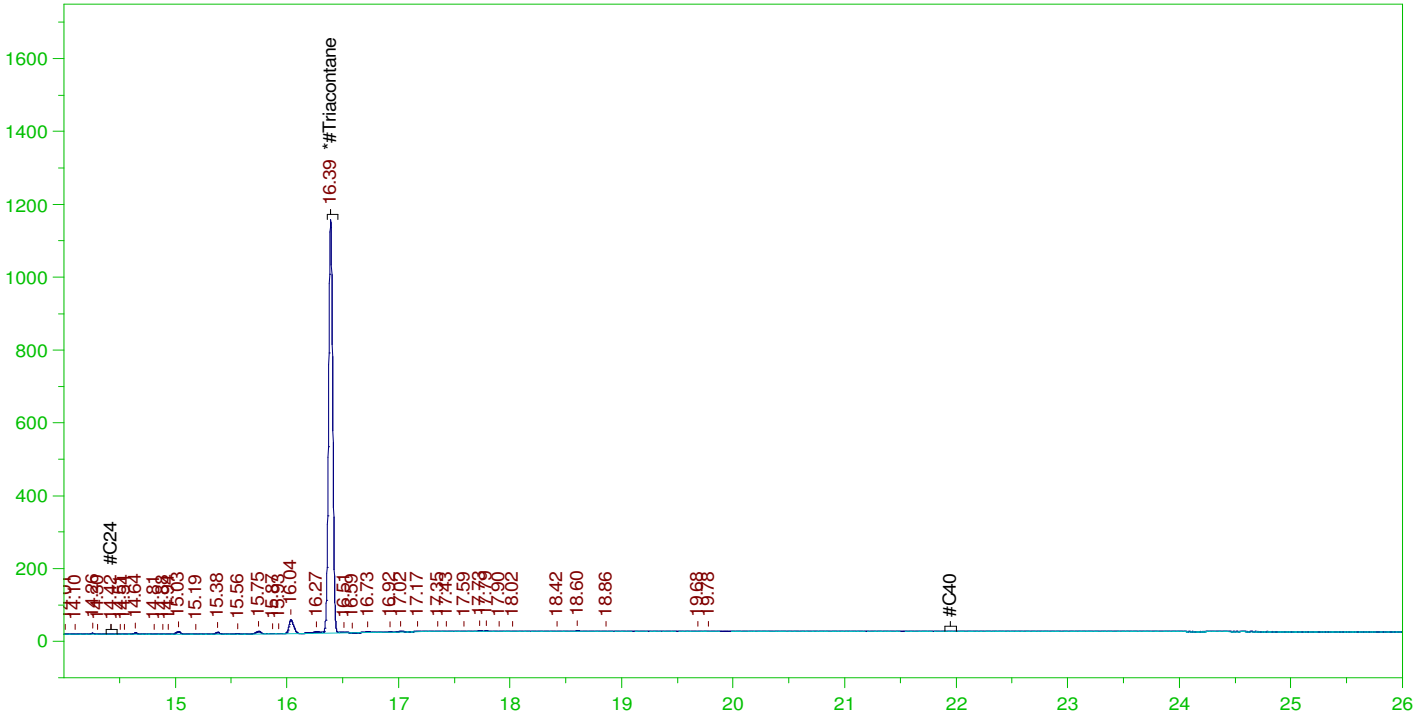


ERH2458 (RHMW16)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0011.RAW

B22011130-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011130-001D ;0122HP5 , \$HC-8015-DRO-W,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0011.RAW  
 Date & Time Acquired: 1/22/2022 5:21:49 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.392	.476	.094	19.66

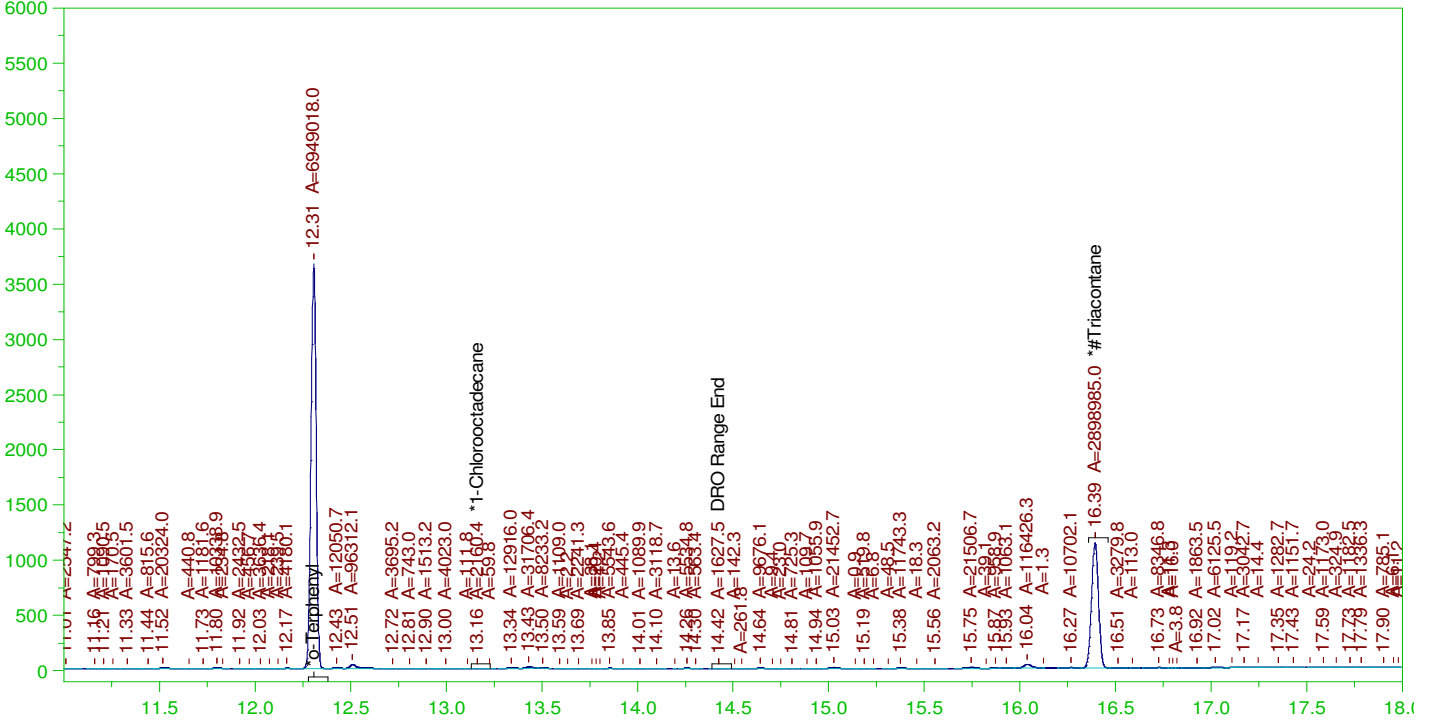
RRO Area:272393.1 RRO AMOUNT: 9.817461E-03

ERH2458 (RHMW16)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0011.RAW

B22011130-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011130-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0011.RAW  
Date & Time Acquired: 1/22/2022 5:21:49 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	.19	.18	94.27
*1-Chlorooctadecane	13.162	.19	.	.03
*#Triacontane	16.392	.19	.093	48.91

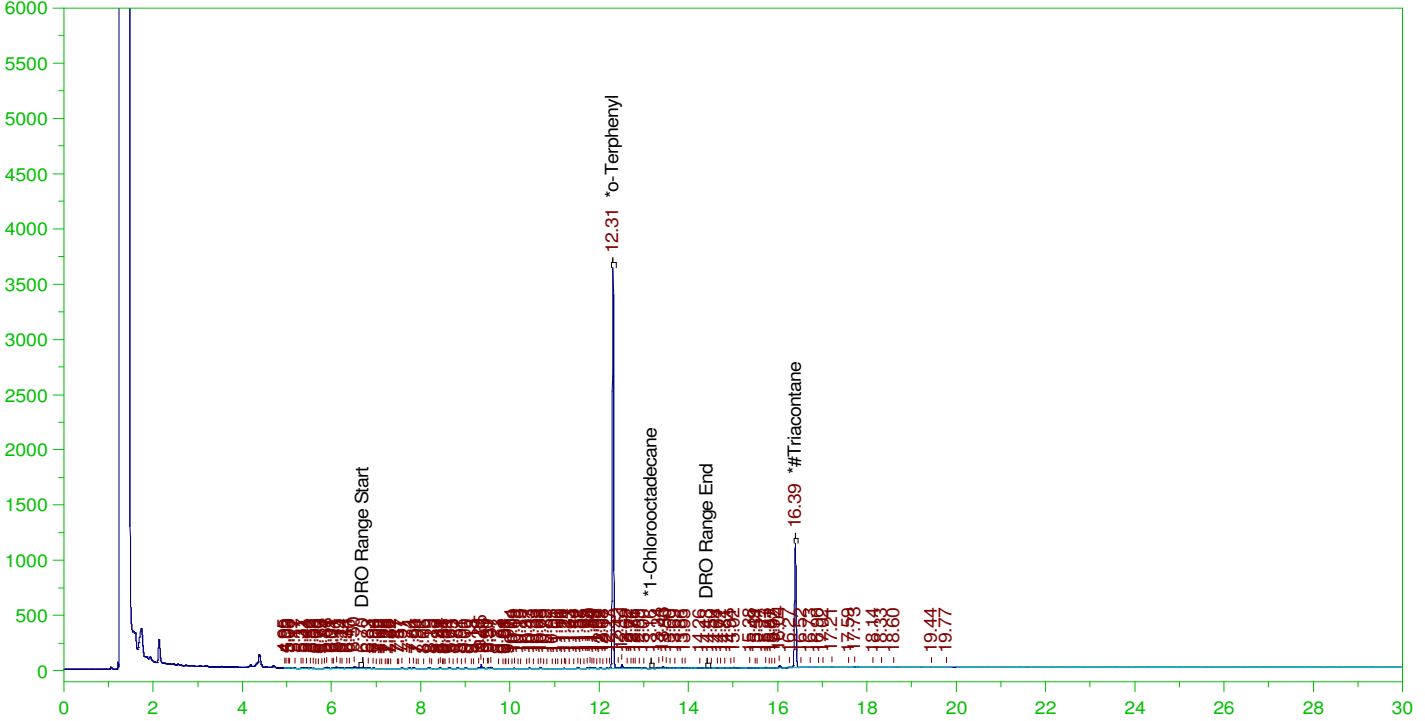
DRO Area:533968.3 DRO Amount: 1.556345E-02  
TEH Area:2906831 TEH Amount: 0.0847247

ERH2454 (OWDFMW08A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0012.RAW

B22011127-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011127-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0012.RAW  
Date & Time Acquired: 1/22/2022 6:04:41 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.19	.177	93.09	-
*1-Chlorooctadecane	13.162	.19	.	.02	-
*#Triacontane	16.391	.19	.093	48.86	-

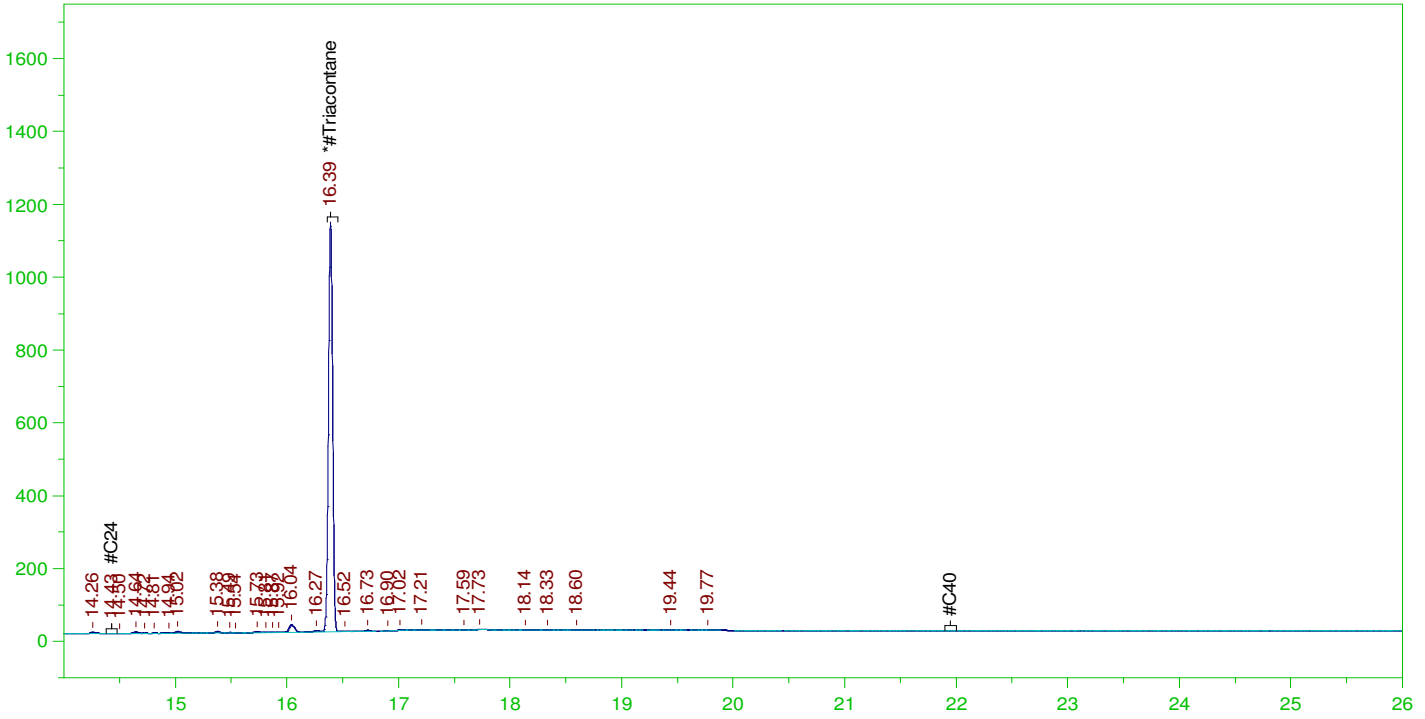
DRO Area:761408.3 DRO Amount: 2.219259E-02  
TEH Area:1251325 TEH Amount: 3.647208E-02

ERH2454 (OWDFMW08A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0012.RAW

B22011127-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011127-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0012.RAW  
Date & Time Acquired: 1/22/2022 6:04:41 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.476	.093	19.54

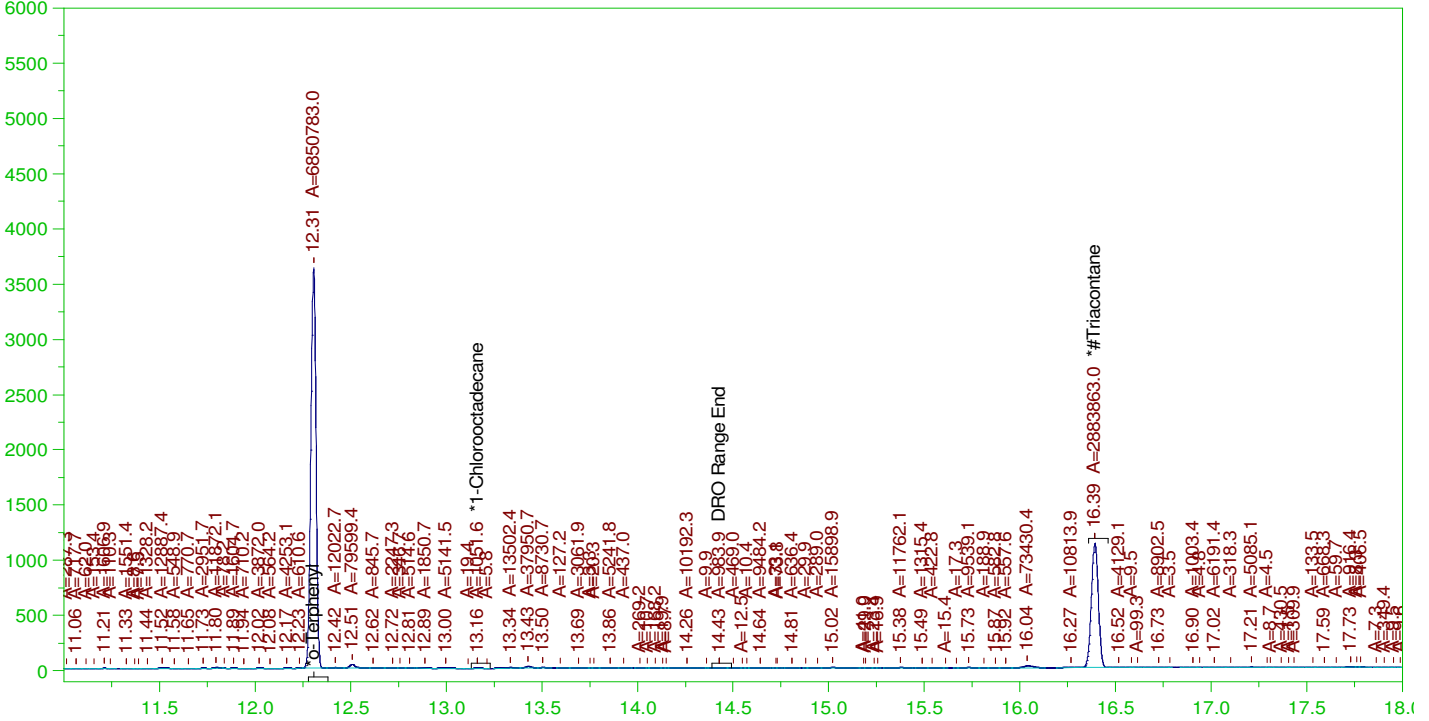
RRO Area:200455.3 RRO AMOUNT: 7.224711E-03

ERH2454 (OWDFMW08A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0012.RAW

B22011127-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

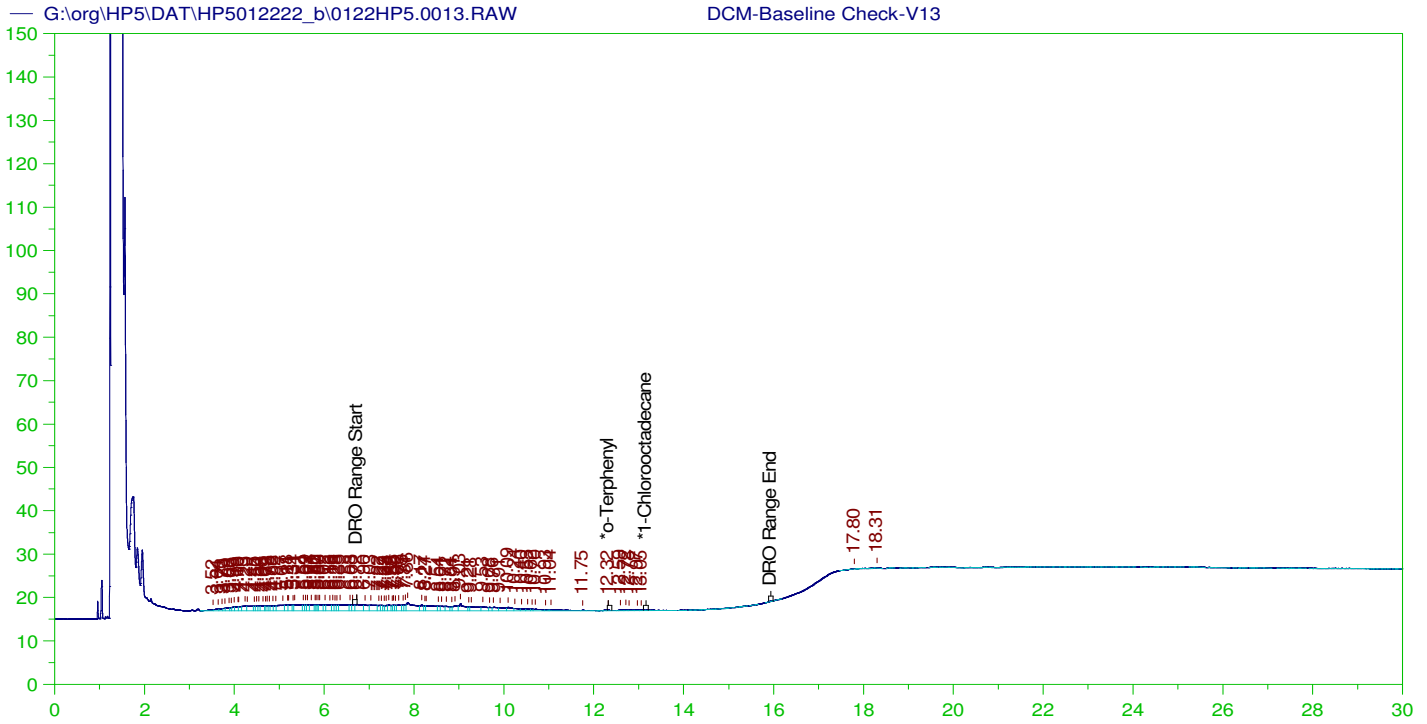
Sample Name: B22011127-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0012.RAW  
Date & Time Acquired: 1/22/2022 6:04:41 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.19	.177	92.94	-
*1-Chlorooctadecane	13.162	.19	.	.01	-
*#Triacontane	16.391	.19	.093	48.65	-

DRO Area:647737.5 DRO Amount: 1.887945E-02  
TEH Area:2172185 TEH Amount: 6.331217E-02



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V13  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0013.RAW  
 Date & Time Acquired: 1/22/2022 6:47:38 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.322	200.	.027	.01
*1-Chlorooctadecane	29.97	200.	.	.

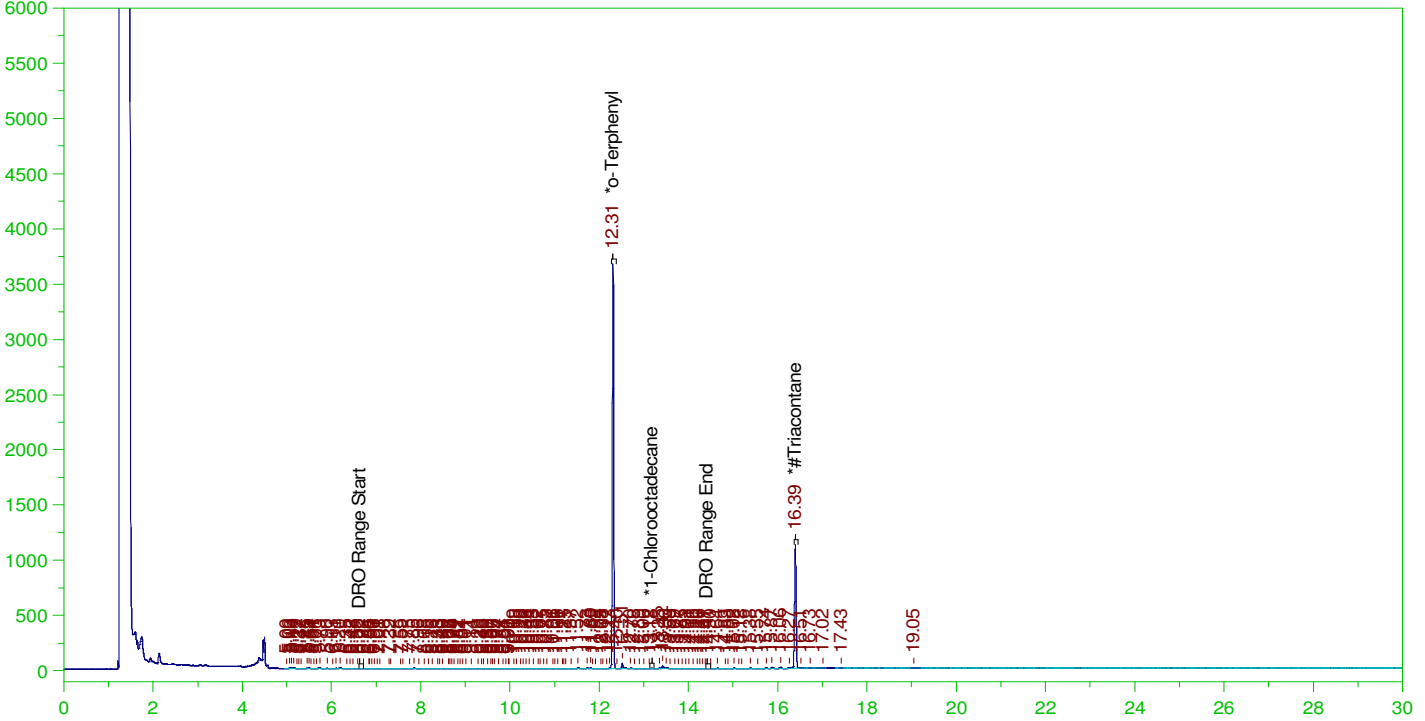
DRO Area: 245628.8 DRO Amount: 7.517249  
 TEH Area: 464553 TEH Amount: 14.21723

ERH2446 (RHMW15 zone5)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0014.RAW

B22011124-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011124-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0014.RAW  
Date & Time Acquired: 1/22/2022 7:30:31 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.2	.187	93.57	-
*1-Chlorooctadecane	13.177	.2	.	.13	-
*#Triacontane	16.391	.2	.098	49.12	-

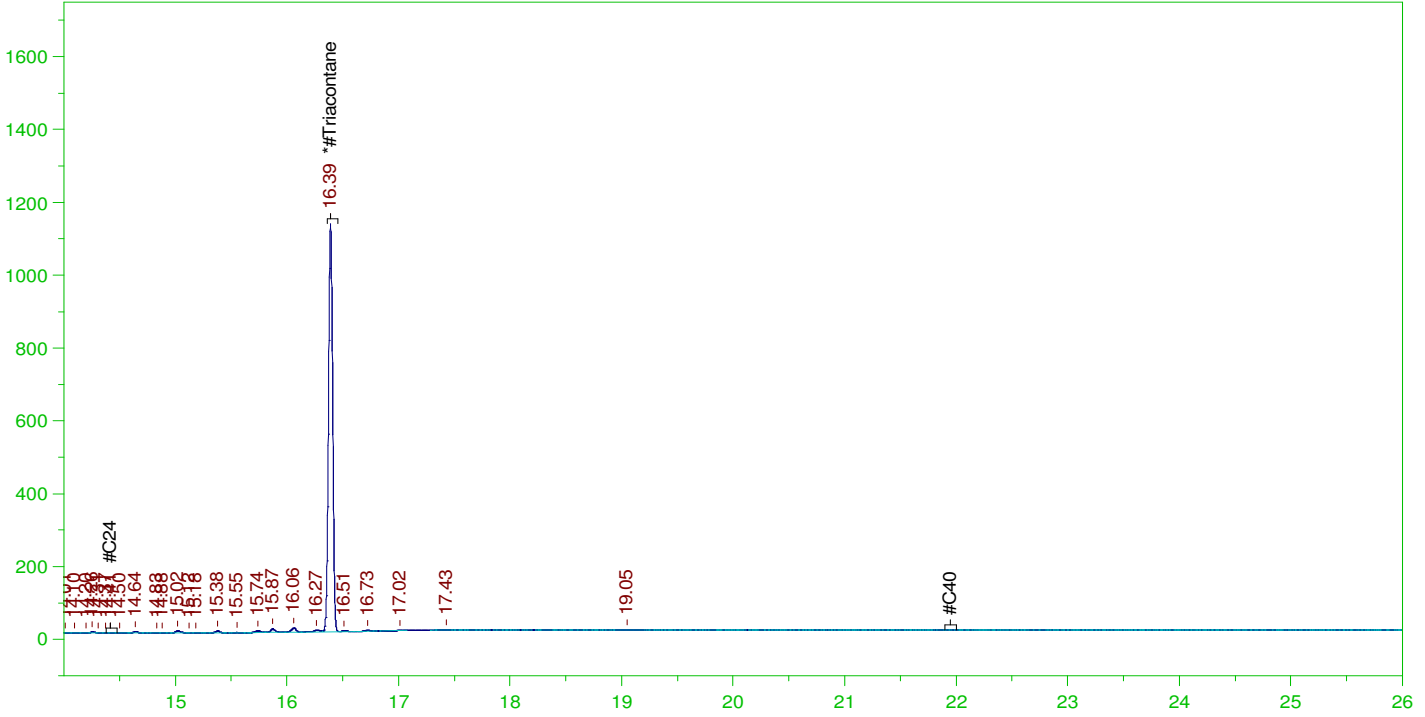
DRO Area:625003.7 DRO Amount: 1.912768E-02  
TEH Area:963934.3 TEH Amount: 2.950034E-02

ERH2446 (RHMW15 zone5)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0014.RAW

B22011124-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011124-001D ;0122HP5 , \$HC-8015-DRO-W,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0014.RAW  
 Date & Time Acquired: 1/22/2022 7:30:31 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.5	.098	19.65

RRO Area:174585 RRO AMOUNT: 6.606924E-03

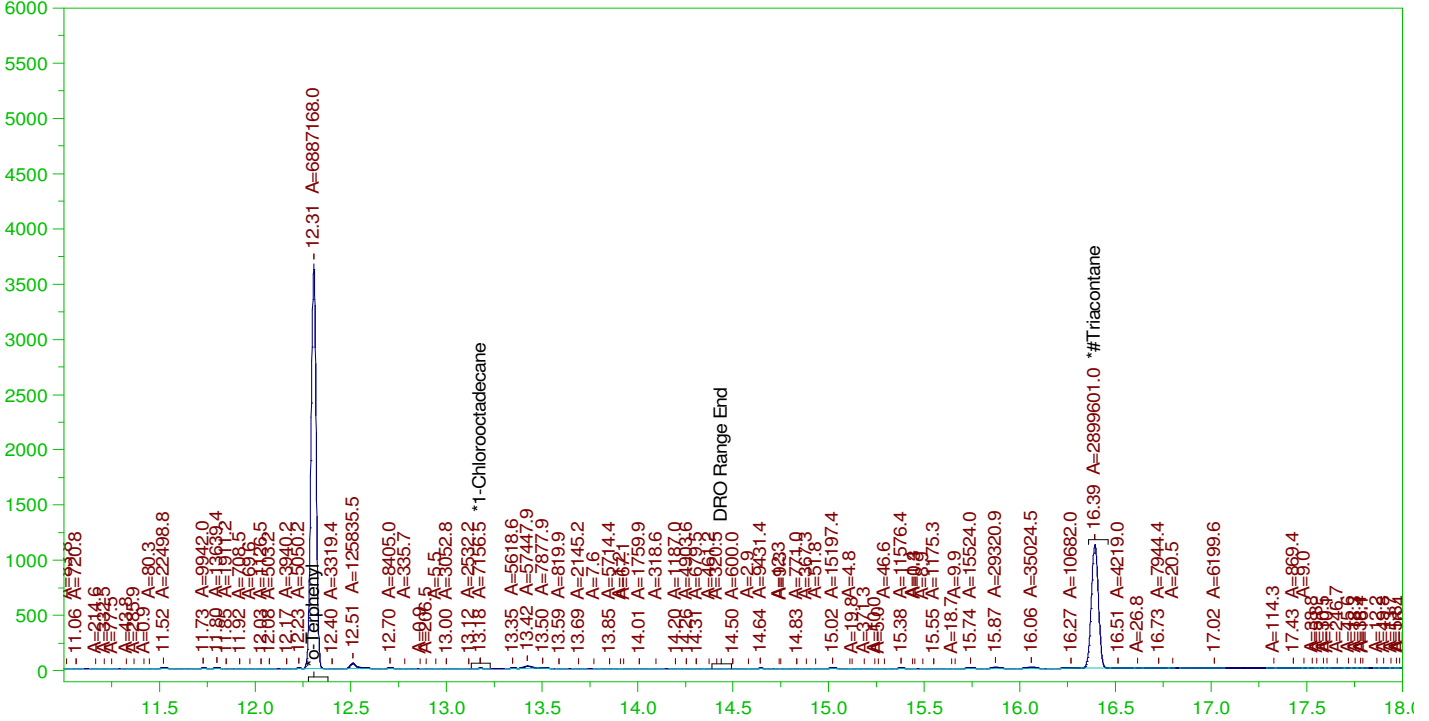


ERH2446 (RHMW15 zone5)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0014.RAW

B22011124-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011124-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0014.RAW  
Date & Time Acquired: 1/22/2022 7:30:31 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

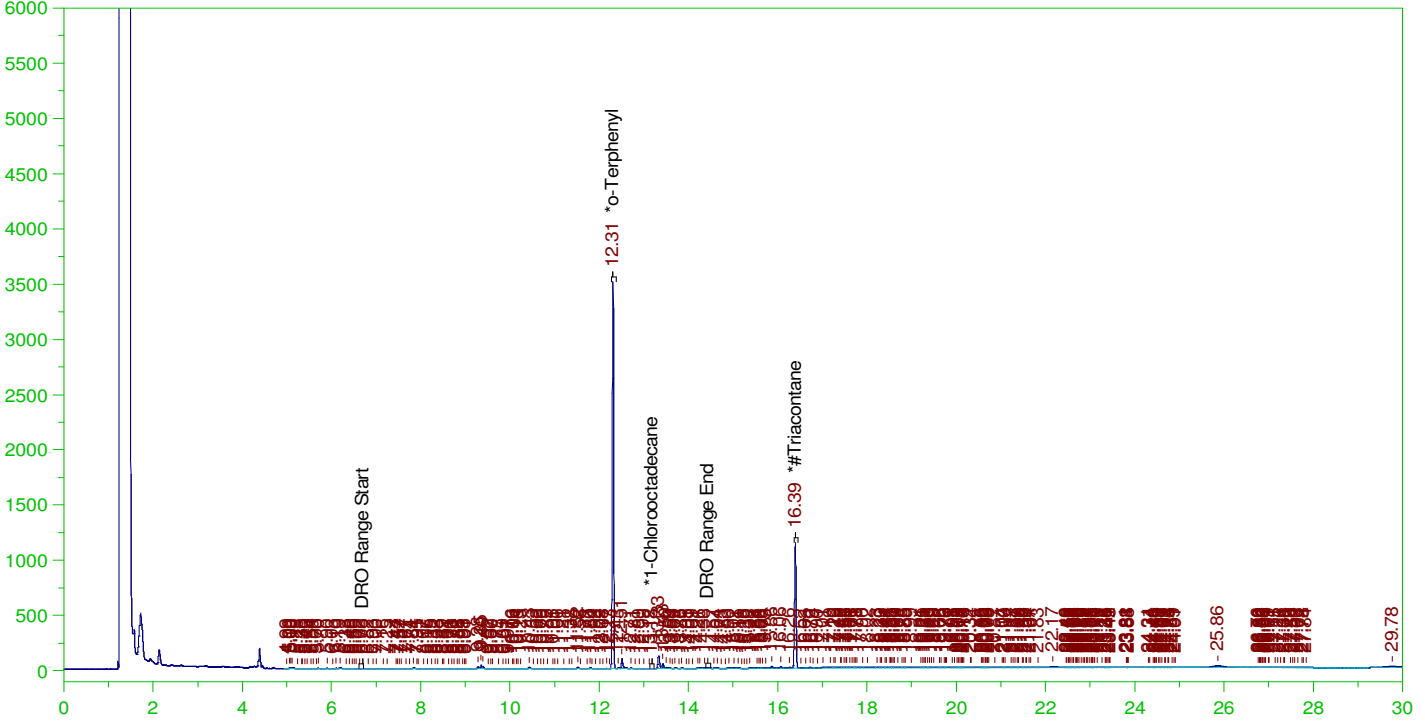
Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	.2	.187	93.43
*1-Chlorooctadecane	13.177	.2	.1	-
*#Triacontane	16.391	.2	.098	48.92

DRO Area:456479.3 DRO Amount: 1.397014E-02  
TEH Area:2940520 TEH Amount: 8.999197E-02

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012222\_b\0122HP5.0015.RAW

Batch ID: 163074  
B22011136-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0015.RAW  
Date & Time Acquired: 1/22/2022 8:13:28 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-012215-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

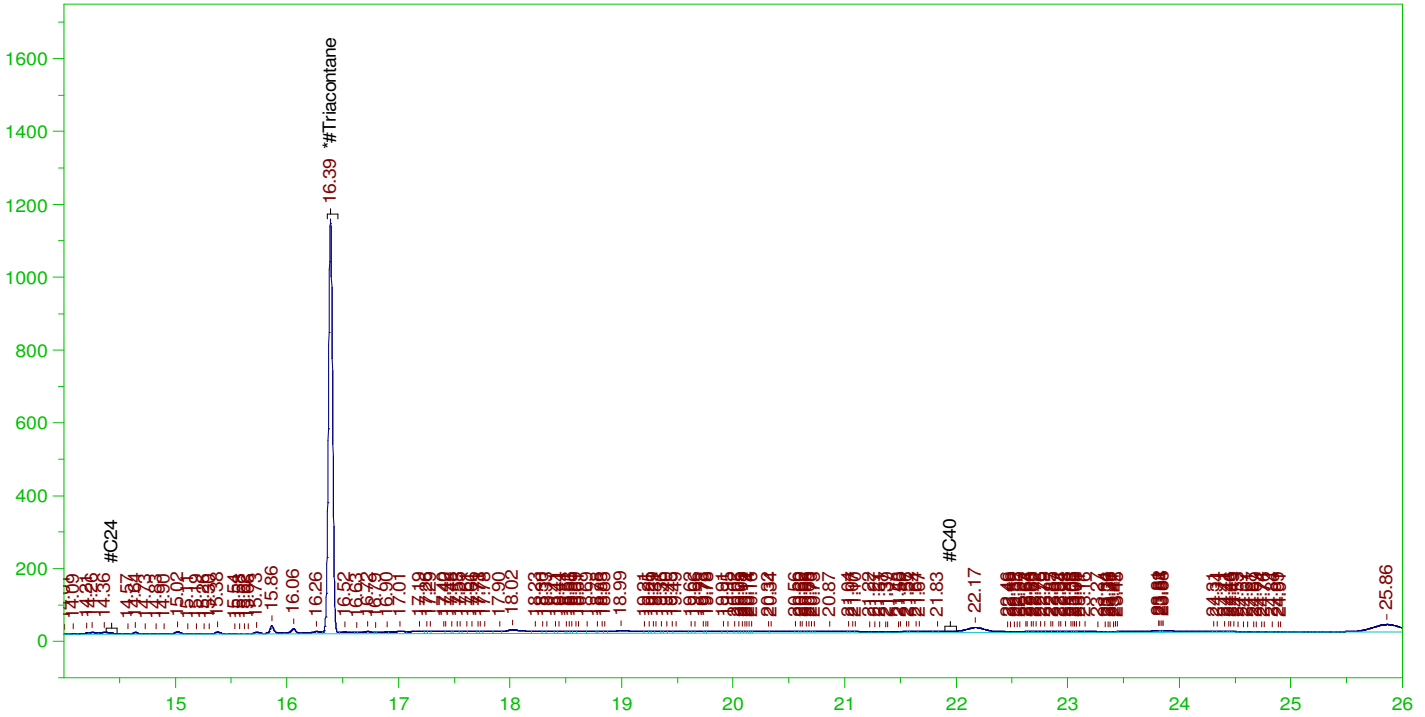
Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.198	.18	90.97	-
*1-Chlorooctadecane	13.178	.198	.	.13	-
*#Triacontane	16.391	.198	.099	49.88	-

DRO Area:1359640 DRO Amount: 4.119858E-02  
TEH Area:4398886 TEH Amount: 0.133291

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012222\_b\0122HP5.0015.RAW

Batch ID: 163074  
B22011136-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011136-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0015.RAW  
Date & Time Acquired: 1/22/2022 8:13:28 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-012215-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

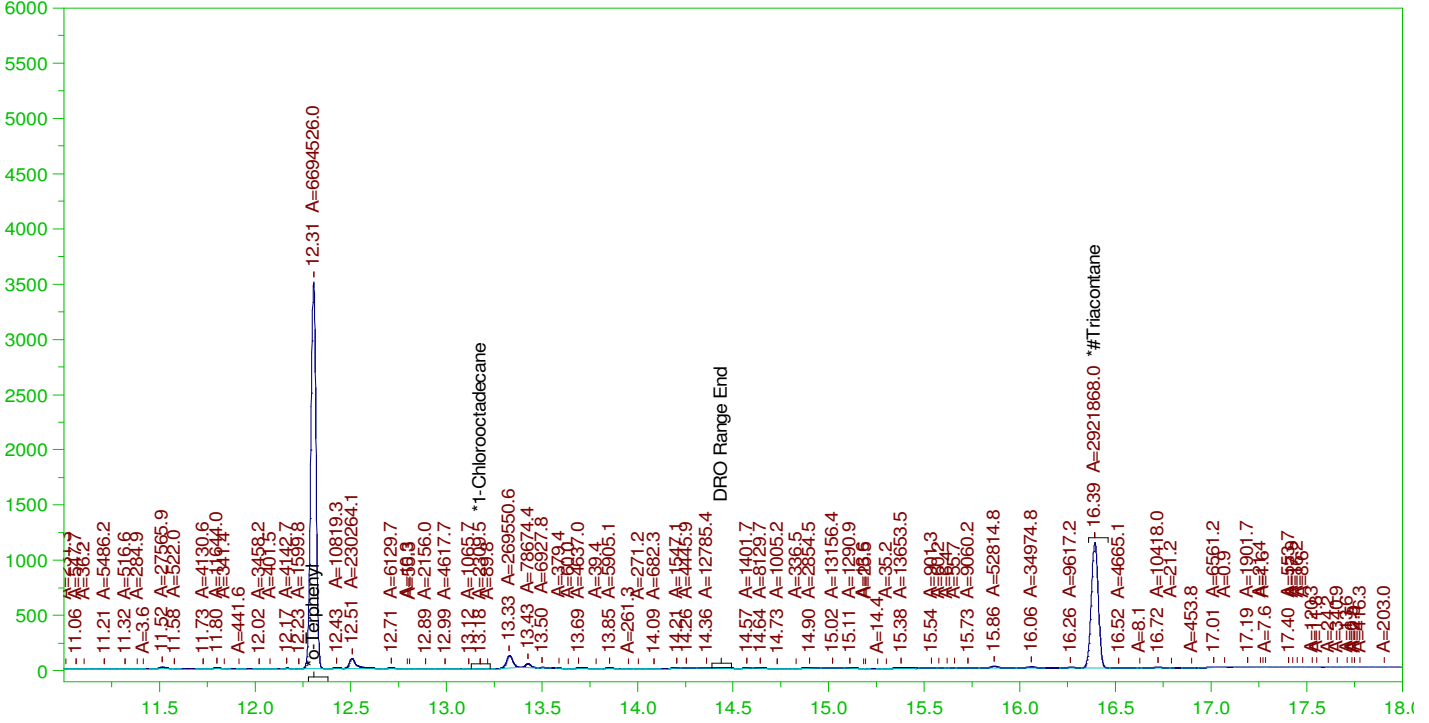
Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.495	.099	19.95

RRO Area:1814018 RRO AMOUNT: 6.796927E-02

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012222\_b\0122HP5.0015.RAW

Batch ID: 163074  
B22011136-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0015.RAW  
Date & Time Acquired: 1/22/2022 8:13:28 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

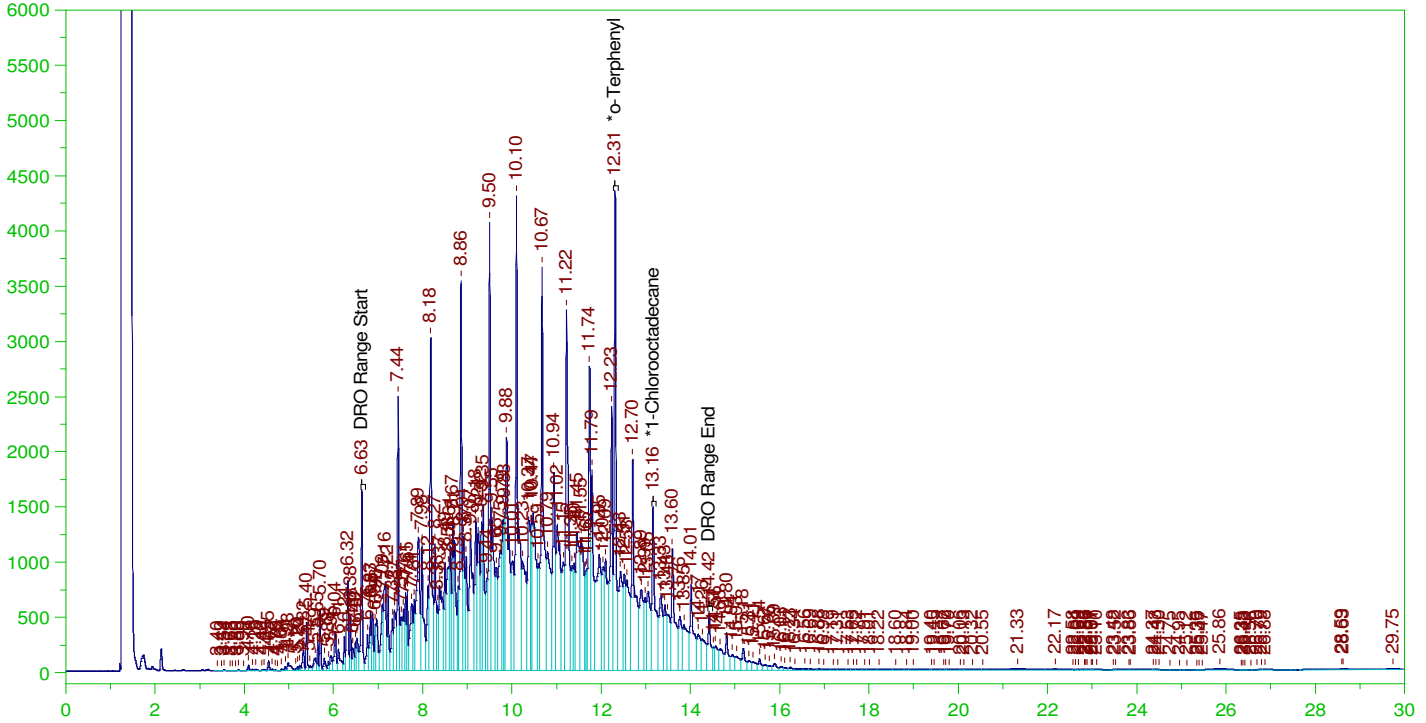
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.198	.18	90.82	-
*1-Chlorooctadecane	13.178	.198	.	.03	-
*#Triacontane	16.391	.198	.098	49.3	-

DRO Area:1069270 DRO Amount: 3.240005E-02  
TEH Area:2962380 TEH Amount: 8.976335E-02

Batch ID: 163074

B22011136-001DMS ;0122HP5 ,

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0016.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001DMS ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0016.RAW  
 Date & Time Acquired: 1/22/2022 8:56:24 PM  
 Method File: G:\Org\HP5\Methods\D3\_8015-C24-JB-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

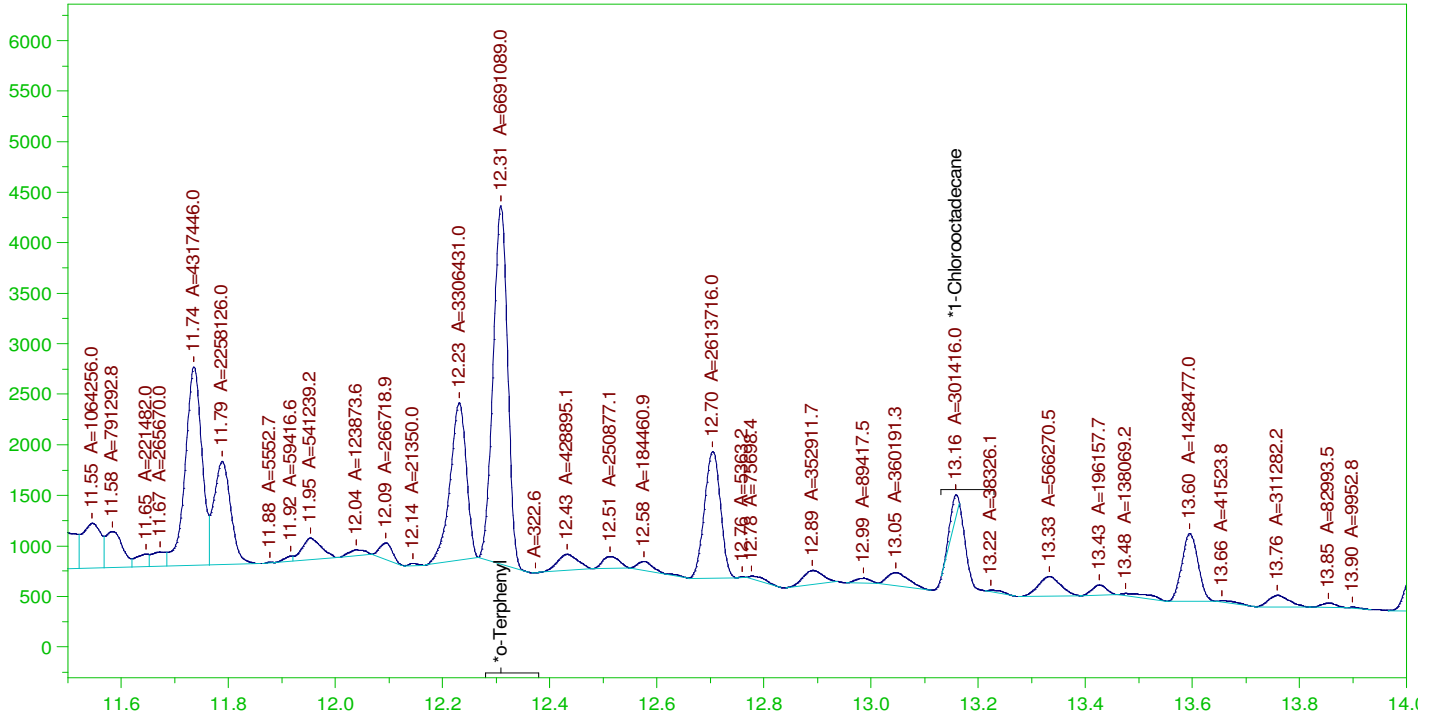
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.198	.306	154.42	-
*1-Chlorooctadecane	13.159	.198	.191	96.66	-

DRO Area: 3.964739E+08 DRO Amount: 12.01359  
 TEH Area: 4.237807E+08 TEH Amount: 12.84102

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0016.RAW

B22011136-001DMS ;0122HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001DMS ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0016.RAW  
 Date & Time Acquired: 1/22/2022 8:56:24 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JB-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

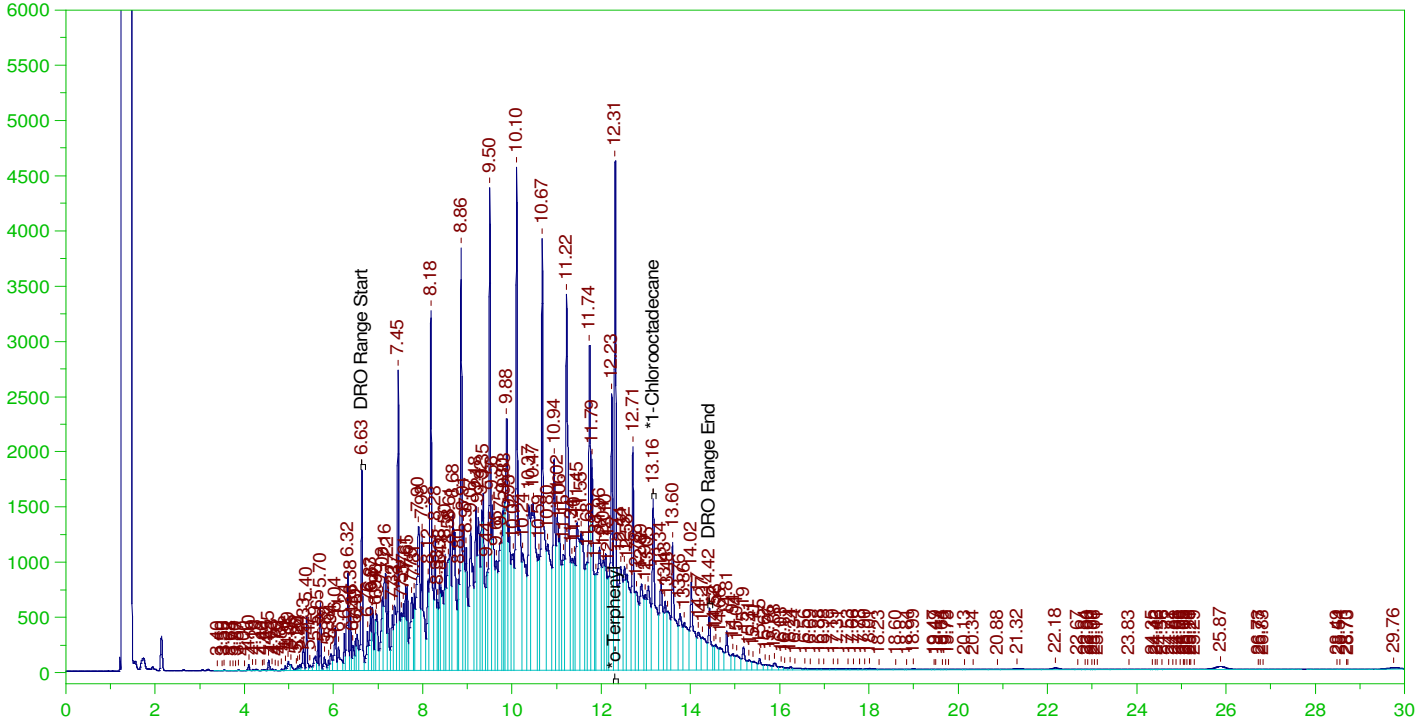
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.198	.18	90.77	-
*1-Chlorooctadecane	13.159	.198	.008	4.09	-

DRO Area:1.858293E+08 DRO Amount: 5.63083  
 TEH Area:1.986222E+08 TEH Amount: 6.018469

Batch ID: 163074

B22011136-001DMSD ;0122HP5 ,

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0017.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001DMSD ;0122HP5 ,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0017.RAW  
Date & Time Acquired: 1/22/2022 9:39:20 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

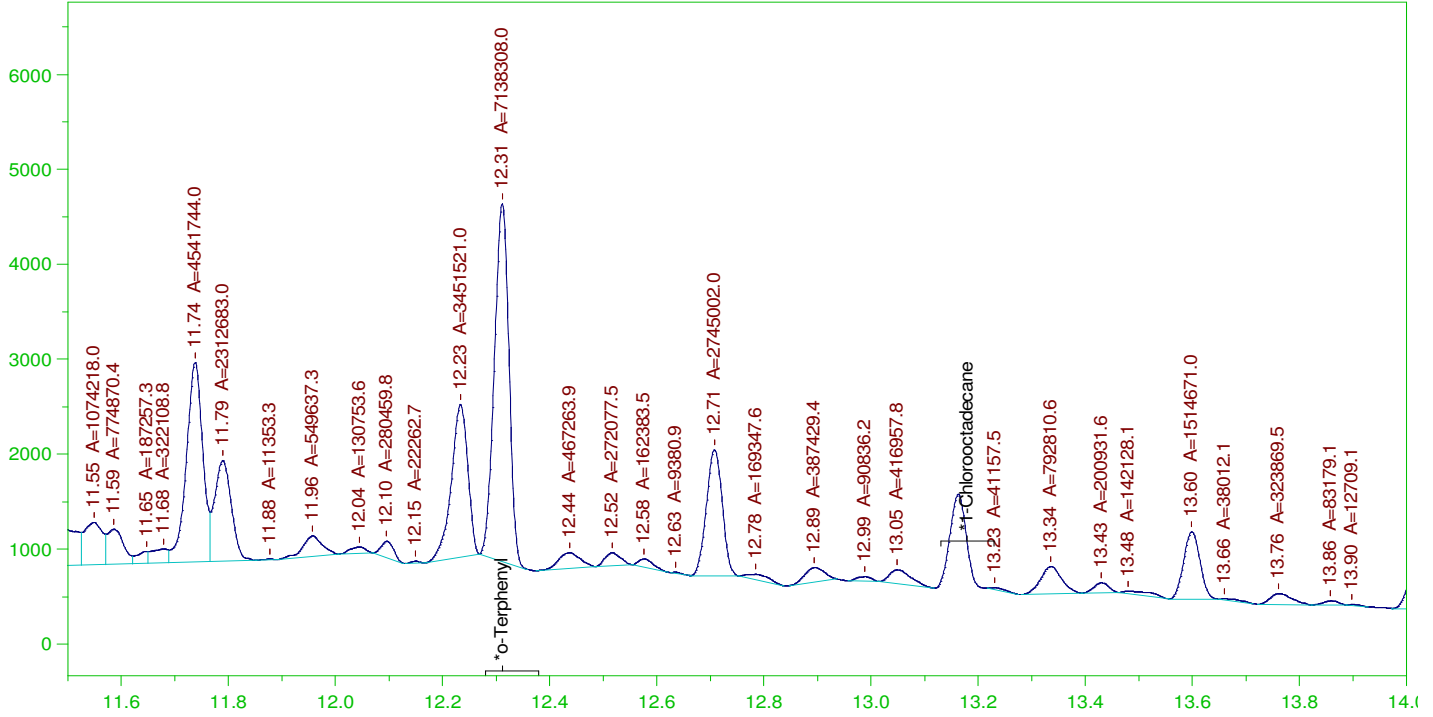
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.311	.198	.333	167.99
*1-Chlorooctadecane	13.163	.198	.202	101.8

DRO Area: 4.246459E+08 DRO Amount: 12.86723  
TEH Area: 4.554472E+08 TEH Amount: 13.80055

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0017.RAW

B22011136-001DMSD ;0122HP5 ,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001DMSD ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0017.RAW  
 Date & Time Acquired: 1/22/2022 9:39:20 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JB-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

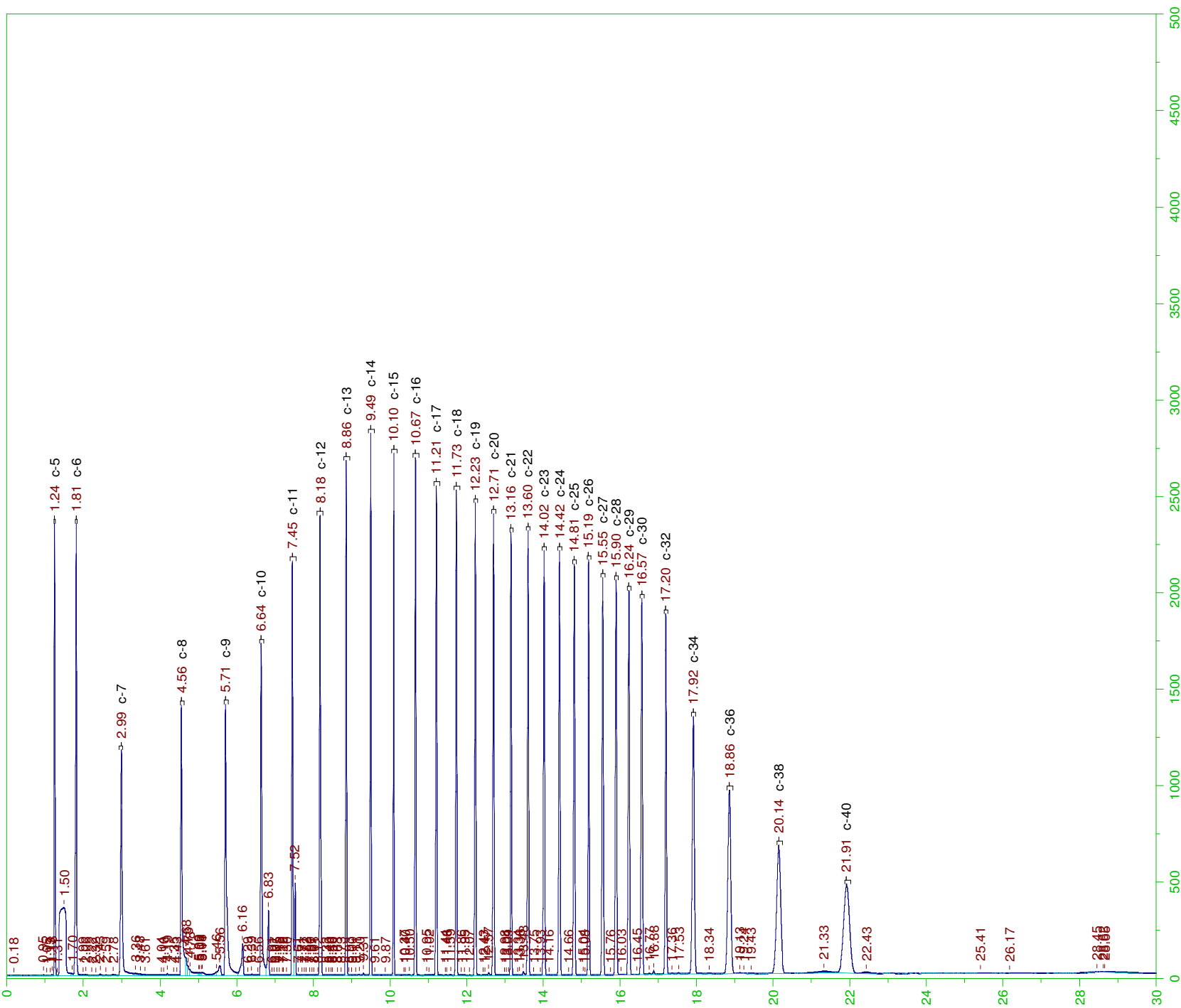
Mean RF for TEH: 32675.36

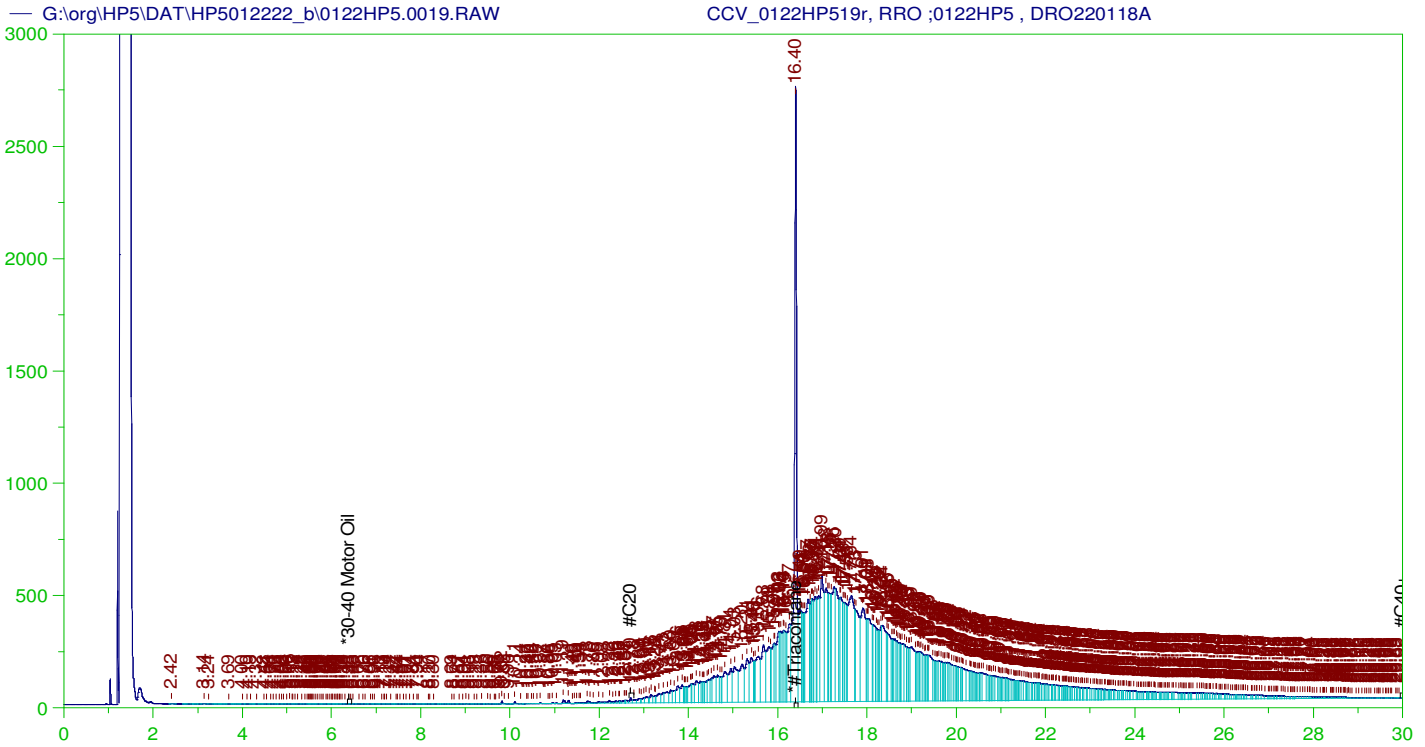
Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.311	.198	.192	96.84
*1-Chlorooctadecane	15.761	.198	.	-

DRO Area: 1.99379E+08 DRO Amount: 6.041402  
 TEH Area: 2.136257E+08 TEH Amount: 6.473092







**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP519r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0019.RAW  
 Date & Time Acquired: 1/22/2022 11:05:03 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.4	500.	333.51	66.7	-

RRO TEH(Oil Range) Area:1.224203E+08 RRO TEH(Oil Range) AMOUNT: 4632.825

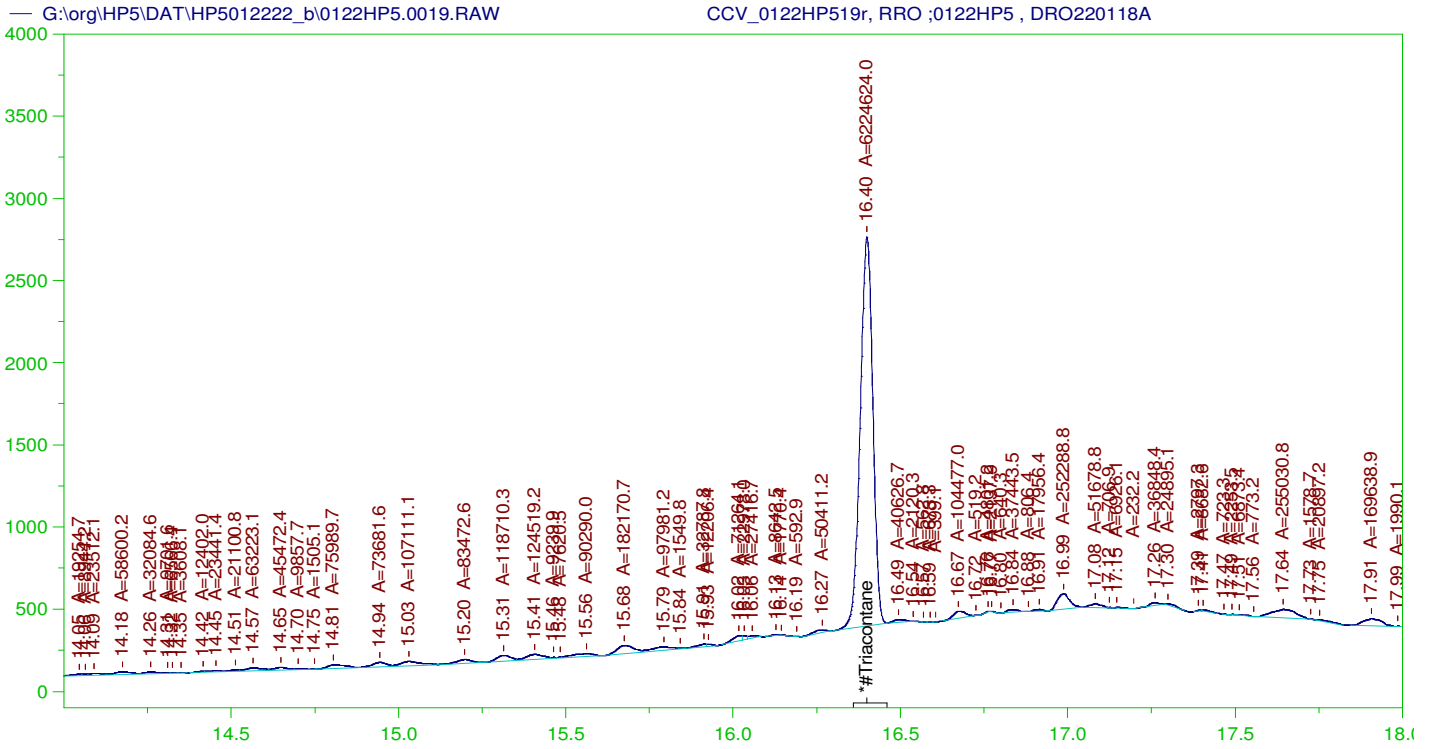
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0019.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.024	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.4	200.	333.51	166.75	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP519r, RRO ;0122HP5 , DRO220118A  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0019.RAW  
Date & Time Acquired: 1/22/2022 11:05:03 PM  
Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 12.67 to 30.05

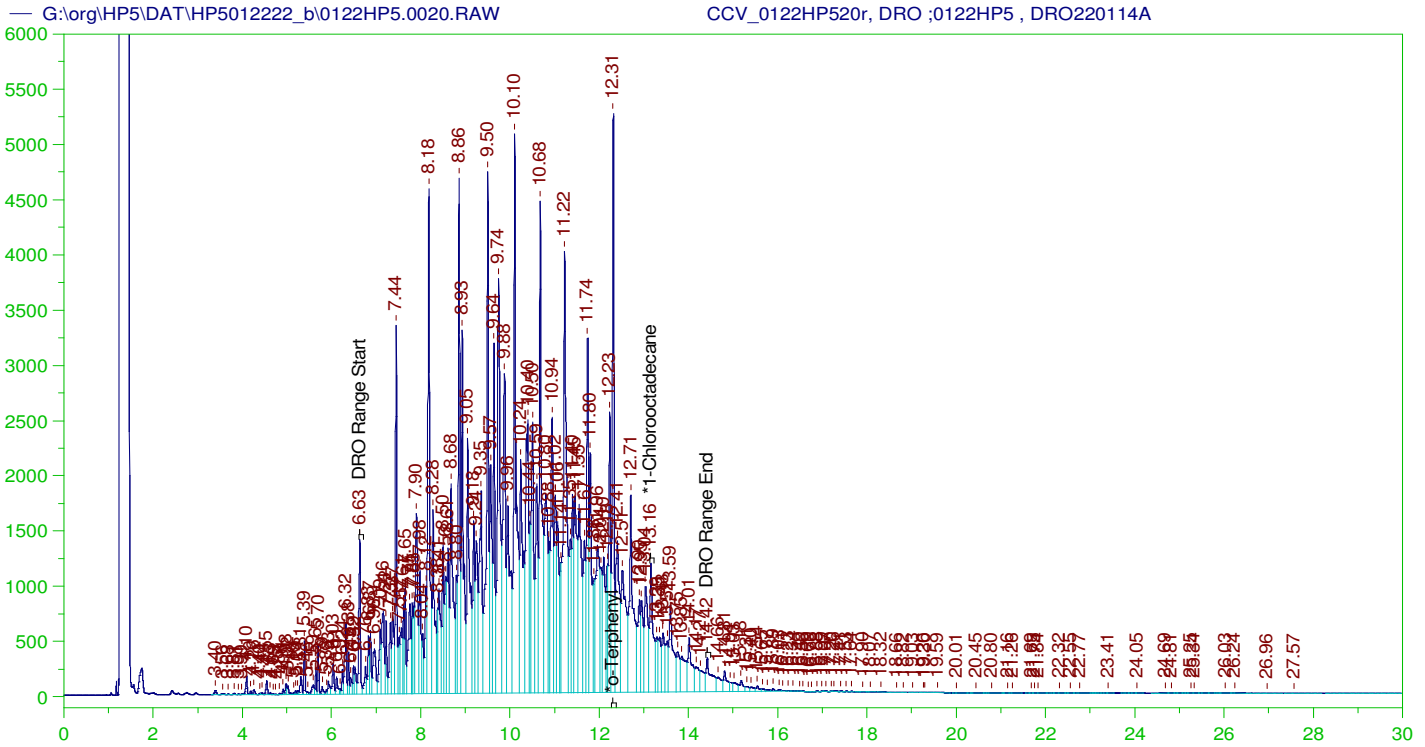
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.4	500.	210.035	42.01	-

RRO Area:3252572 RRO AMOUNT: 123.089

**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0019.RAW**

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.024	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.4	200.	210.035	105.02	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP520r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0020.RAW  
 Date & Time Acquired: 1/22/2022 11:47:55 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JB-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.312	200.	350.301	175.15
*1-Chlorooctadecane	13.158	200.	164.571	82.29

DRO Area: 4.954132E+08 DRO Amount: 15161.67  
 TEH Area: 5.120406E+08 TEH Amount: 15670.54

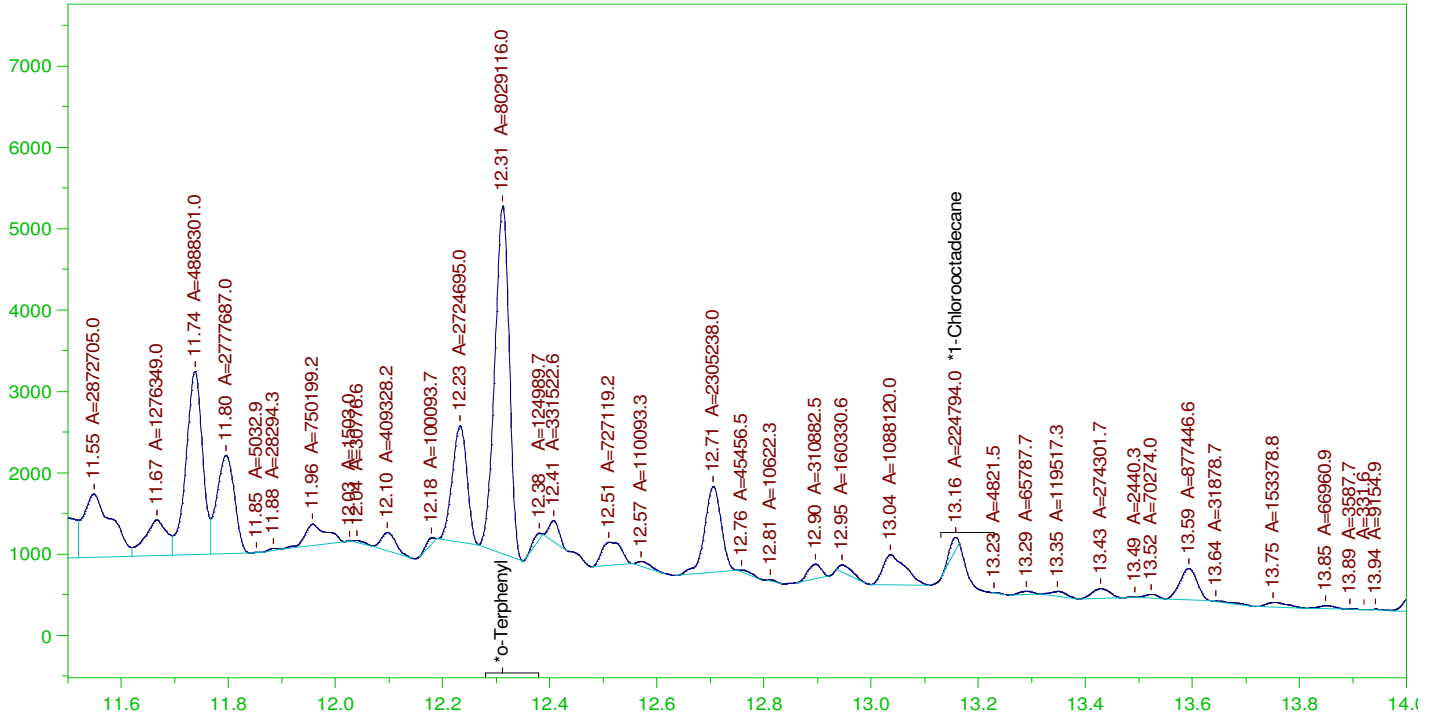
**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0020.RAW**

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15670.54	104.47	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.312	200.	350.301	175.15	85-115
*1-Chlorooctadecane	13.158	200.	164.571	82.29	85-115

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0020.RAW

CCV\_0122HP520r, DRO ;0122HP5 , DRO220114A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP520r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0020.RAW  
 Date & Time Acquired: 1/22/2022 11:47:55 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JB-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

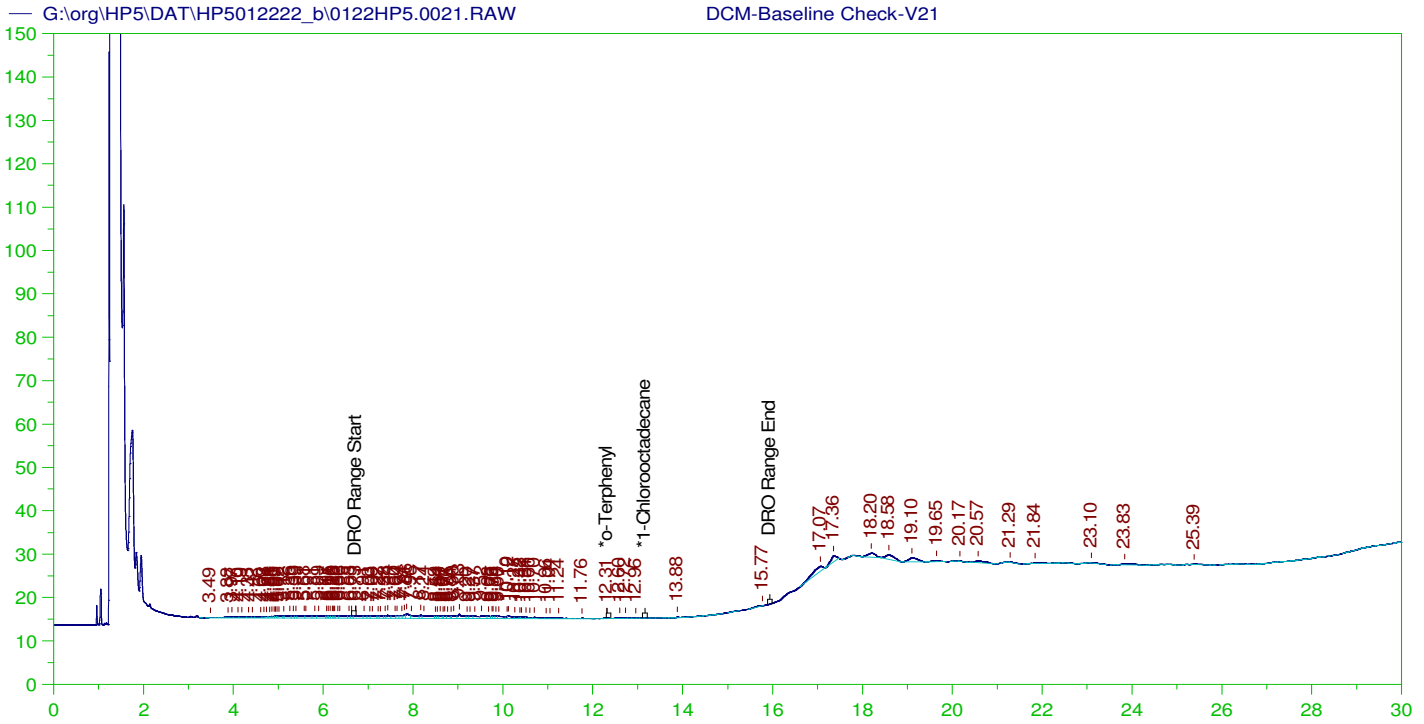
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.312	200.	217.84	108.92
*1-Chlorooctadecane	13.158	200.	6.099	3.05

DRO Area: 2.539744E+08 DRO Amount: 7772.658  
 TEH Area: 2.651958E+08 TEH Amount: 8116.079

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0020.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	8116.08	54.11	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.312	200.	217.84	108.92	85-115
*1-Chlorooctadecane	13.158	200.	6.099	3.05	85-115



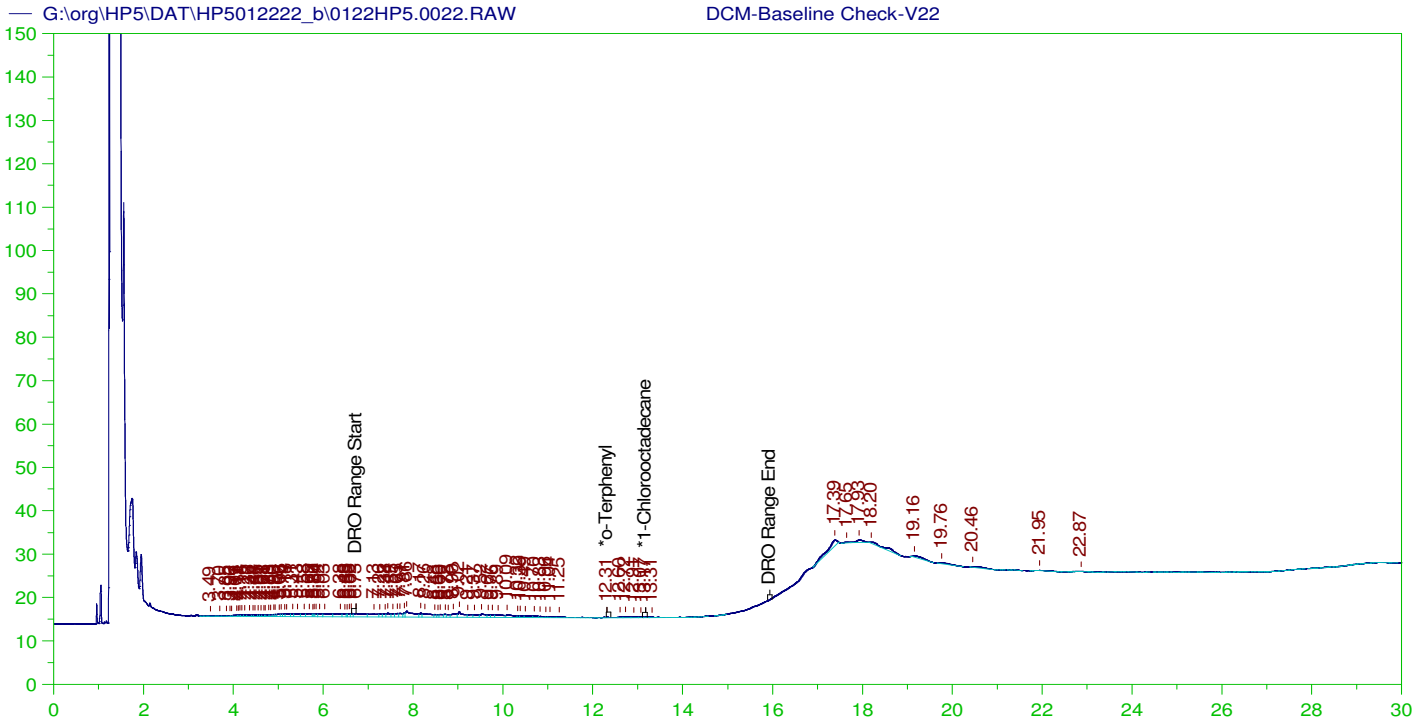
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V21  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0021.RAW  
 Date & Time Acquired: 1/23/2022 12:30:51 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.31	200.	.014	.01 -
*1-Chlorooctadecane	29.975	200.	.	. -

DRO Area:137493.4 DRO Amount: 4.207861  
 TEH Area:305057.9 TEH Amount: 9.336024



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V22  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0022.RAW  
 Date & Time Acquired: 1/23/2022 1:13:40 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.31	200.	.03	.02	-
*1-Chlorooctadecane	13.175	200.	.021	.01	-

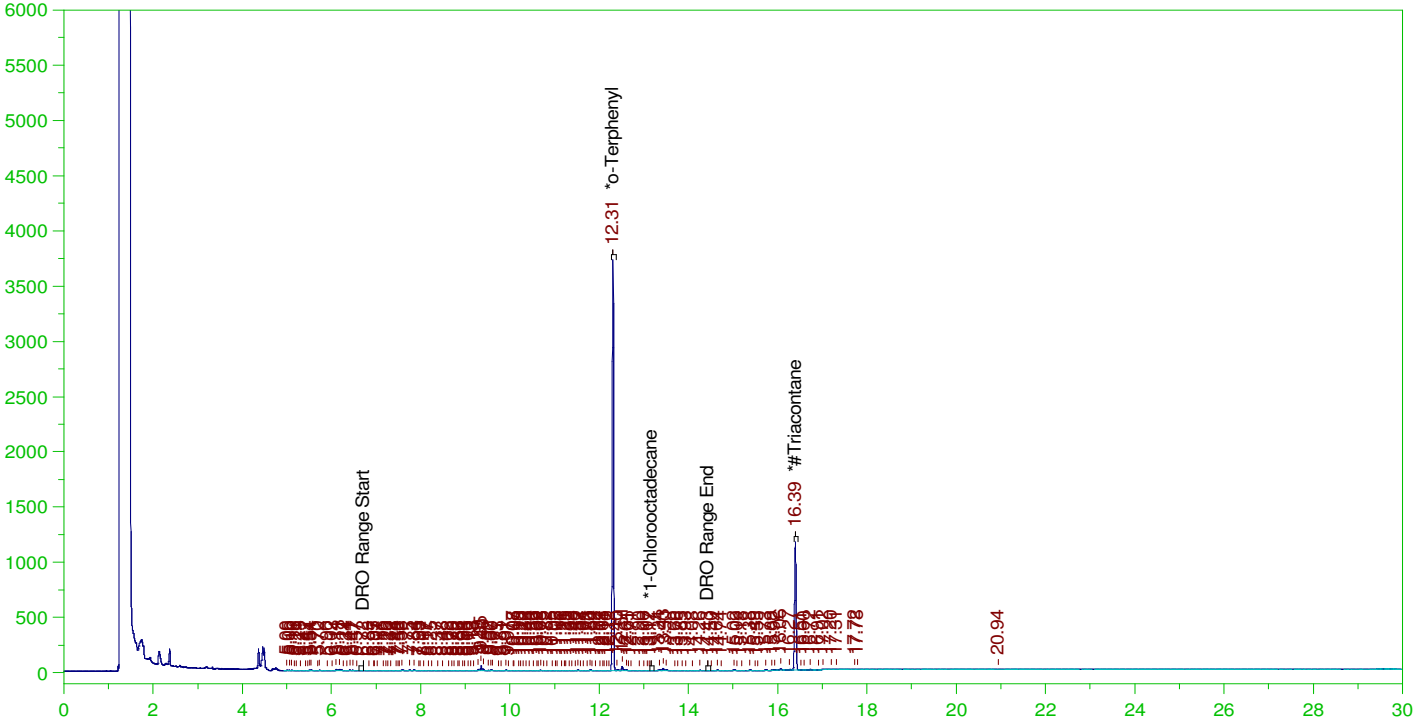
DRO Area:174763 DRO Amount: 5.348466  
 TEH Area:336703.6 TEH Amount: 10.30451

ERH2460 (RHMW12A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0023.RAW

B22011131-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011131-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0023.RAW  
Date & Time Acquired: 1/23/2022 1:56:33 AM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.19	.183	95.87	-
*1-Chlorooctadecane	13.172	.19	.	.03	-
*#Triacontane	16.392	.19	.096	50.6	-

DRO Area:838382.9 DRO Amount: 2.443615E-02  
TEH Area:1264552 TEH Amount: 3.685759E-02

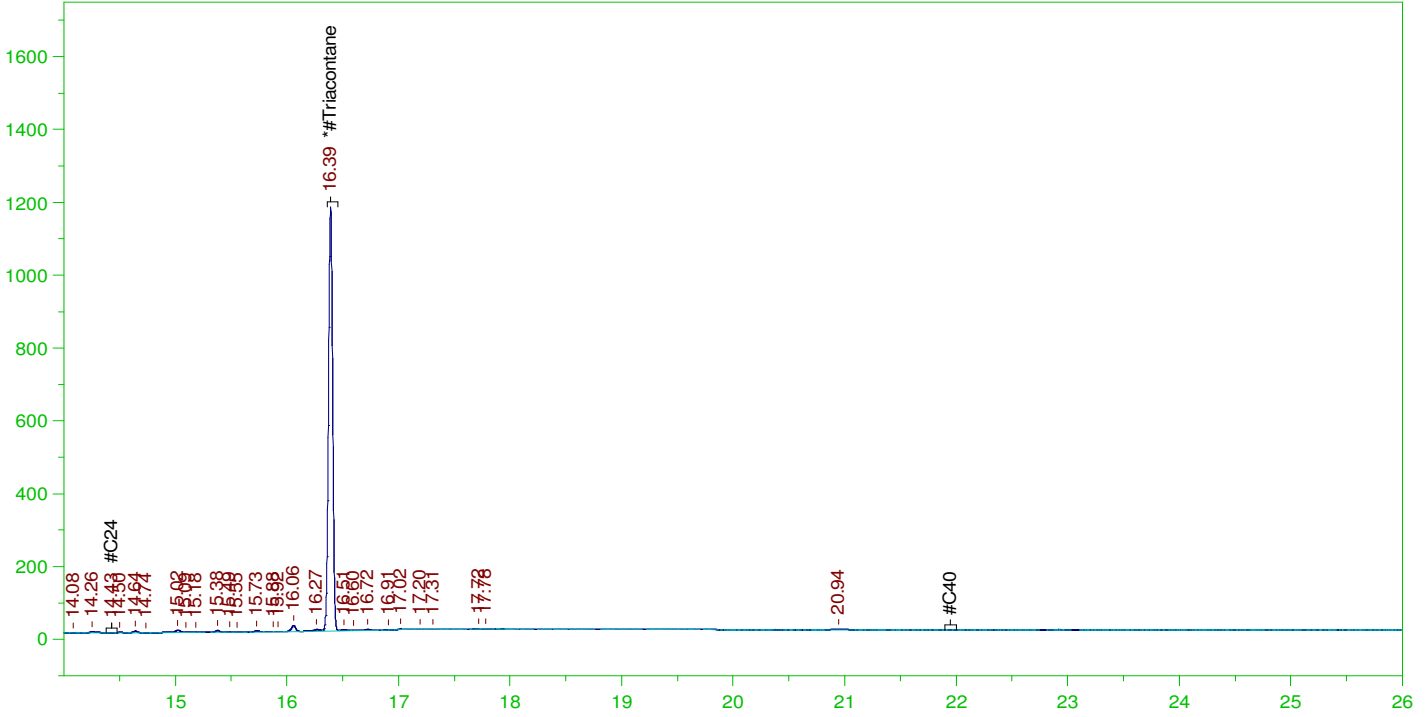


ERH2460 (RHMW12A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0023.RAW

B22011131-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011131-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0023.RAW  
Date & Time Acquired: 1/23/2022 1:56:33 AM  
Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.392	.476	.096	20.24

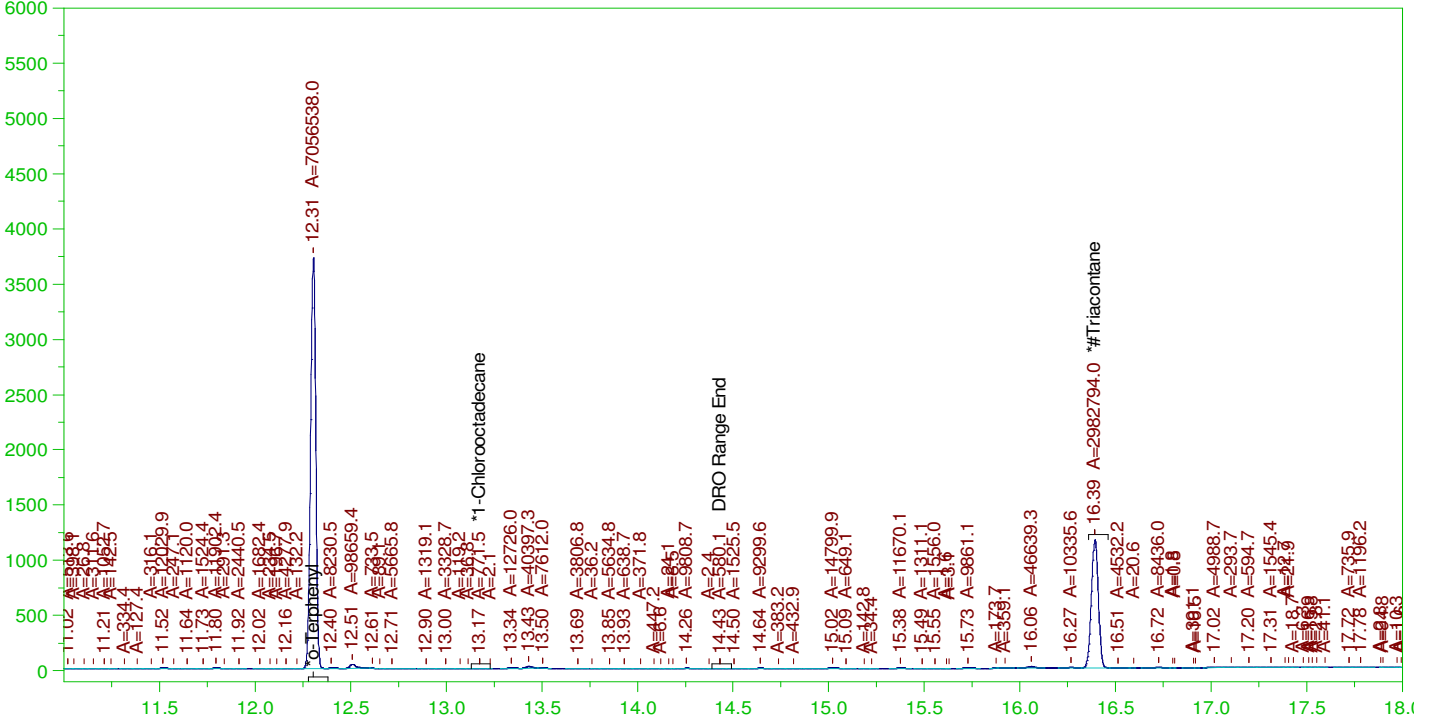
RRO Area:177800.6 RRO AMOUNT: 6.408204E-03

ERH2460 (RHMW12A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0023.RAW

B22011131-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011131-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0023.RAW  
Date & Time Acquired: 1/23/2022 1:56:33 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.19	.182	95.73	-
*1-Chlorooctadecane	13.172	.19	.	.01	-
*#Triacontane	16.392	.19	.096	50.32	-

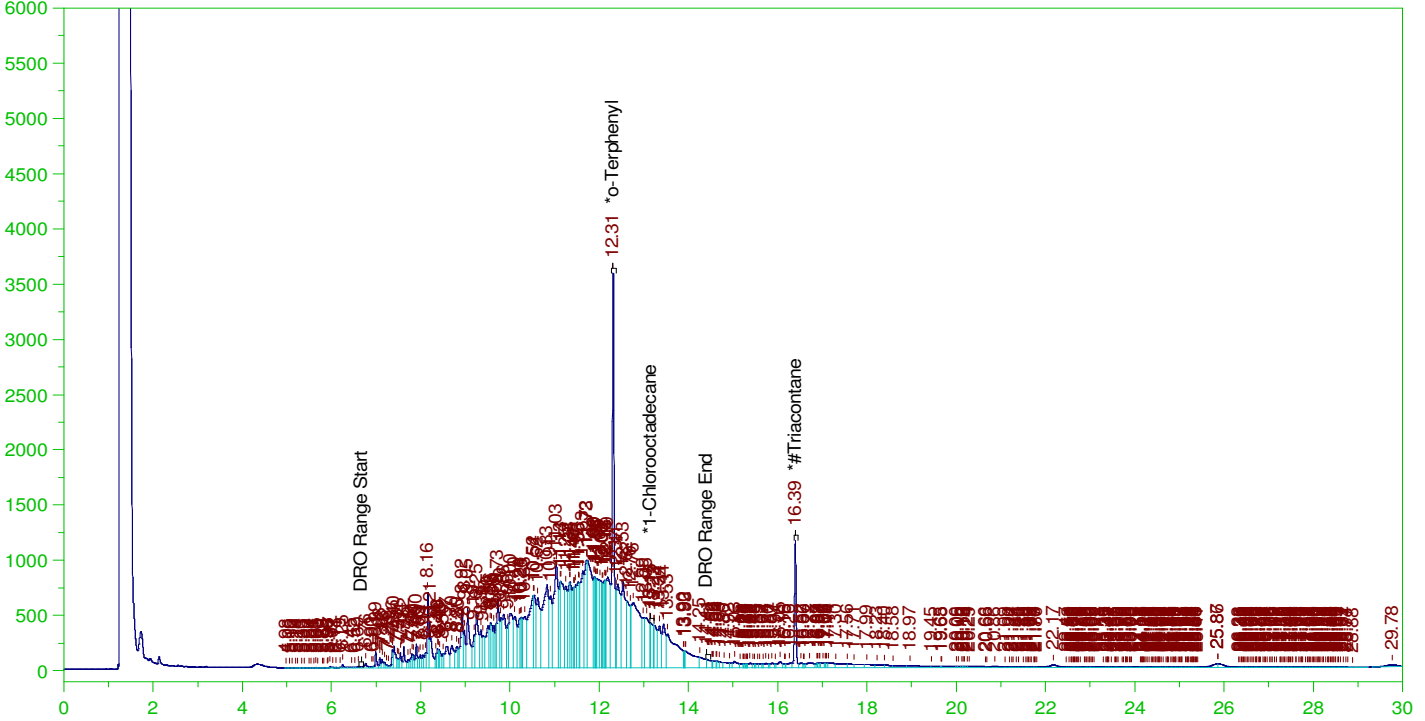
DRO Area:655314 DRO Amount: 1.910028E-02  
TEH Area:2780181 TEH Amount: 8.103328E-02

ERH2429 (RHMW02)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0024.RAW

B22011137-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011137-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0024.RAW  
Date & Time Acquired: 1/23/2022 2:39:24 AM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.31	.194	.282	145.12	-
*1-Chlorooctadecane	13.154	.194	.036	18.29	-
*#Triacontane	16.39	.194	.106	54.41	-

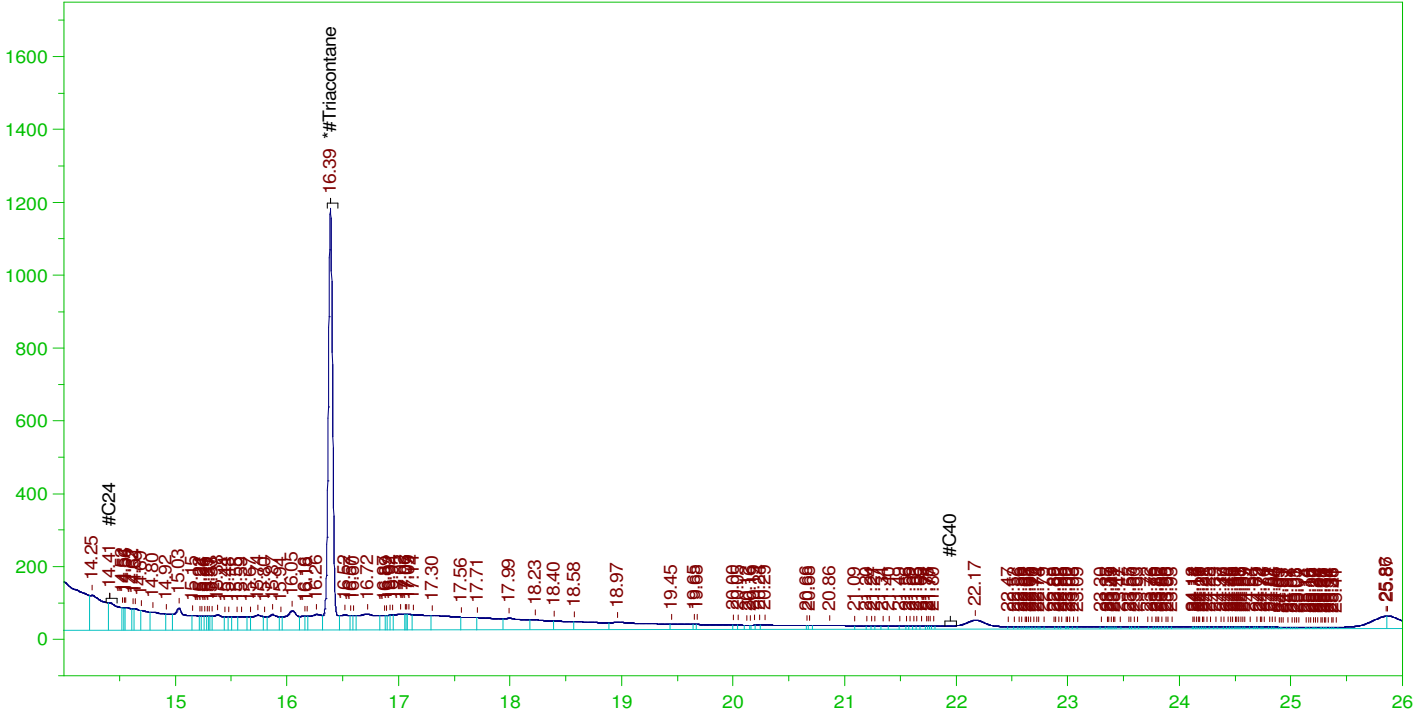
DRO Area:1.734014E+08 DRO Amount: 5.152228  
TEH Area:1.875687E+08 TEH Amount: 5.573177

ERH2429 (RHMW02)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0024.RAW

B22011137-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011137-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0024.RAW  
Date & Time Acquired: 1/23/2022 2:39:24 AM  
Method File: G:\Org\HP5\Methods\D3\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.39	.485	.106	21.76

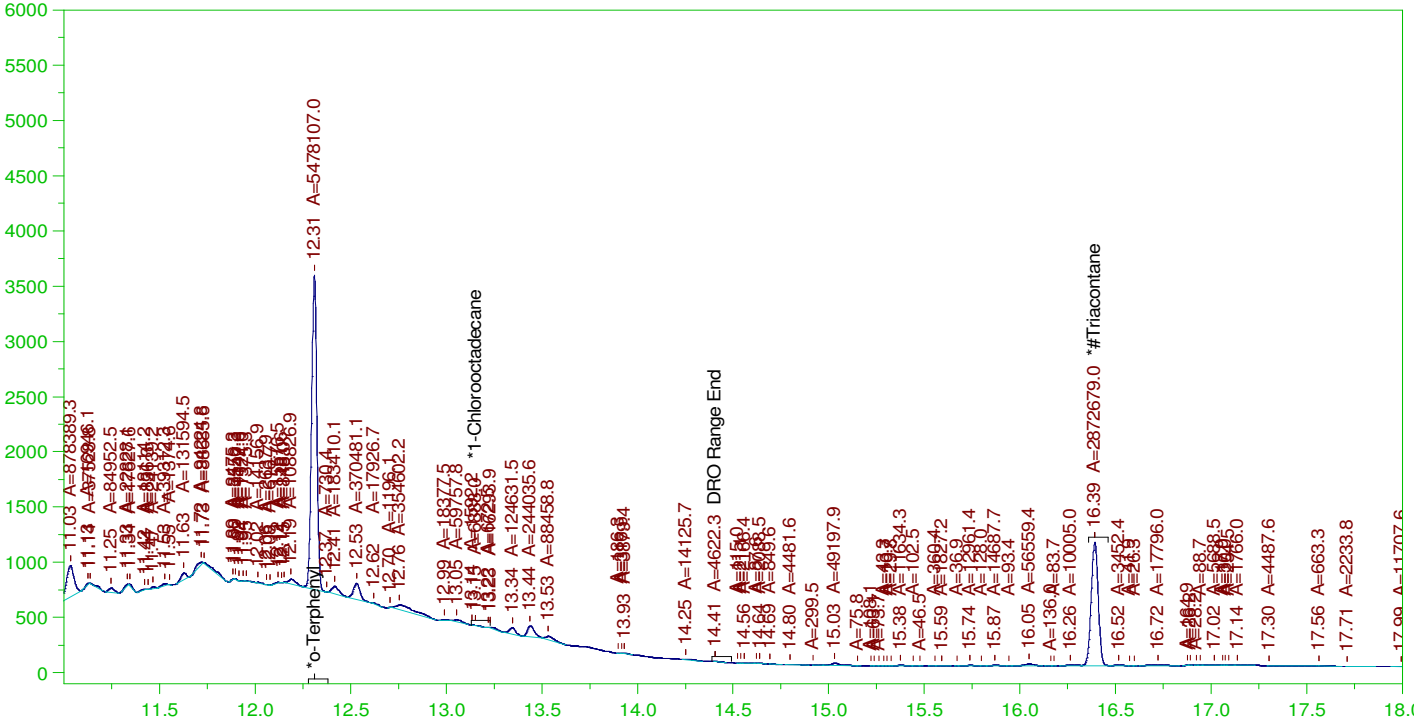
RRO Area:1.160812E+07 RRO AMOUNT: 0.4264978

ERH2429 (RHMW02)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0024.RAW

B22011137-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

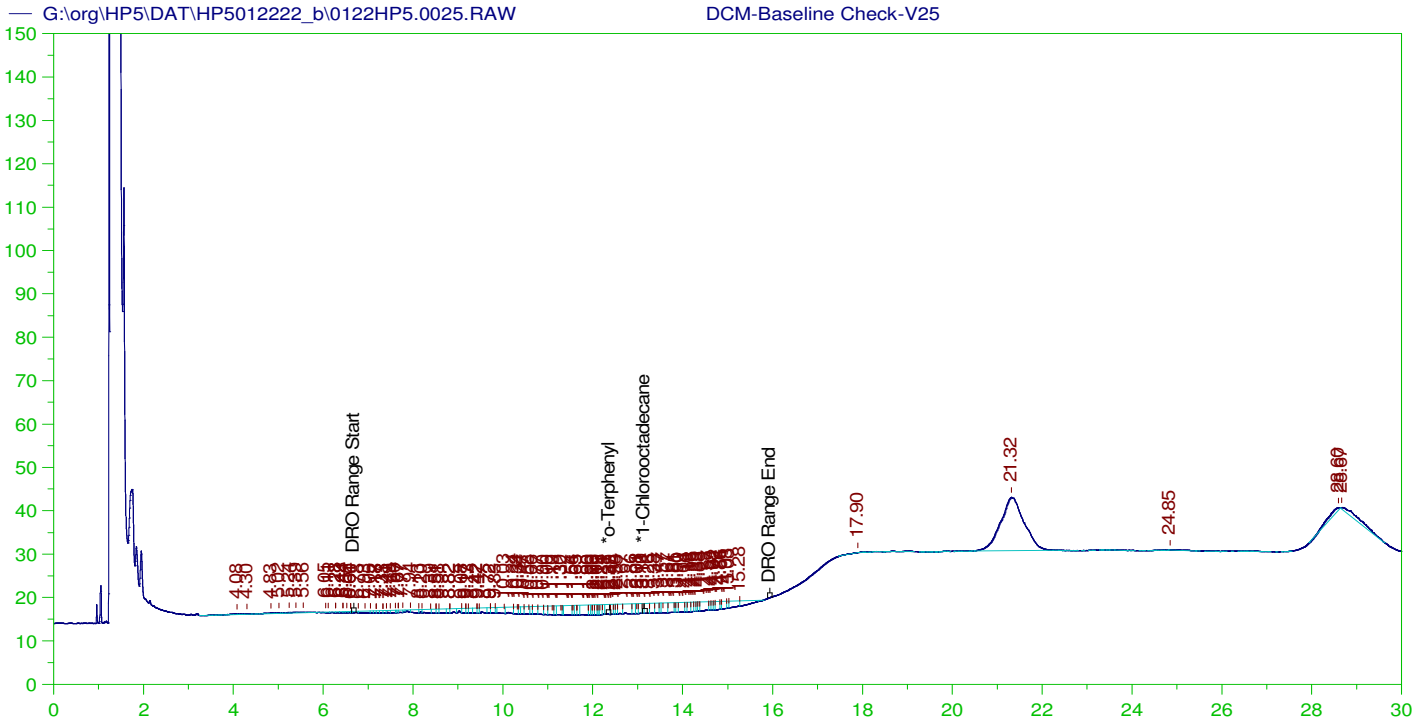
Sample Name: B22011137-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0024.RAW  
Date & Time Acquired: 1/23/2022 2:39:24 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.31	.194	.144	74.31	-
*1-Chlorooctadecane	13.154	.194	.	.09	-
*#Triacontane	16.39	.194	.094	48.47	-

DRO Area: 2.254794E+07 DRO Amount: 0.6699606  
TEH Area: 2.434994E+07 TEH Amount: 0.7235029



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V25  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0025.RAW  
 Date & Time Acquired: 1/23/2022 3:22:17 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.371	200.	.457	.23	-
*1-Chlorooctadecane	13.142	200.	.452	.23	-

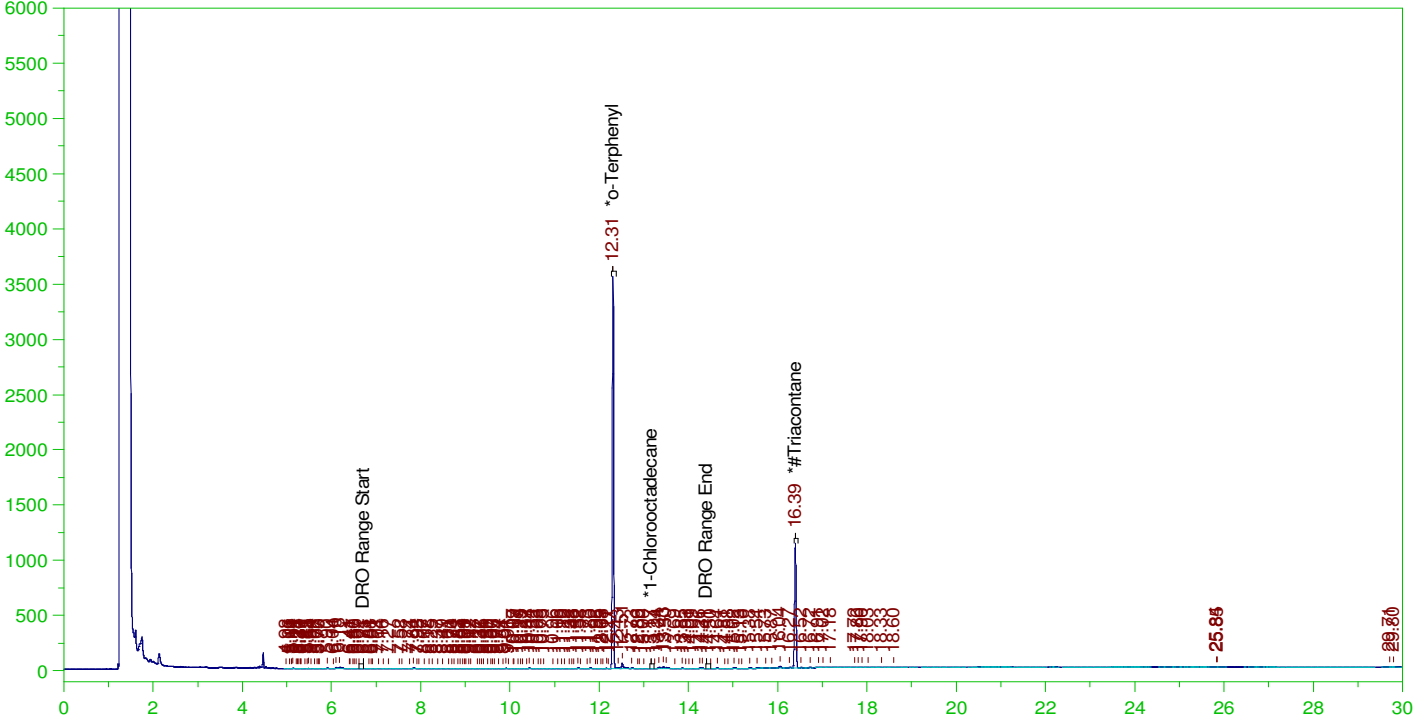
DRO Area: 799684.3 DRO Amount: 24.47362  
 TEH Area: 1332747 TEH Amount: 40.78753

ERH2466 (RHMW09)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0026.RAW

B22011132-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011132-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0026.RAW  
Date & Time Acquired: 1/23/2022 4:05:09 AM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.198	.183	92.21	-
*1-Chlorooctadecane	13.167	.198	.	.01	-
*#Triacontane	16.391	.198	.097	49.16	-

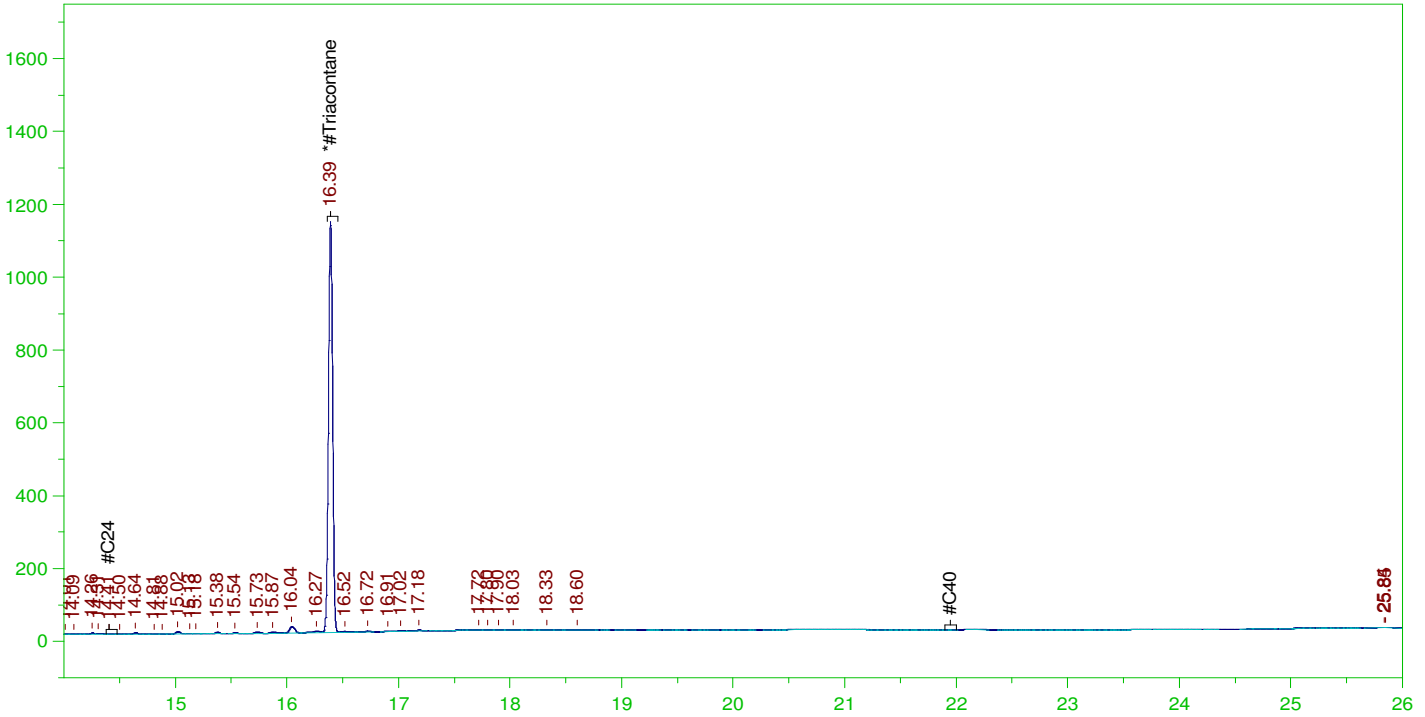
DRO Area:611390.4 DRO Amount: 1.852579E-02  
TEH Area:990232.6 TEH Amount: 3.000513E-02

ERH2466 (RHMW09)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0026.RAW

B22011132-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011132-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0026.RAW  
Date & Time Acquired: 1/23/2022 4:05:09 AM  
Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.495	.097	19.66

RRO Area:199769

RRO AMOUNT: 7.485125E-03

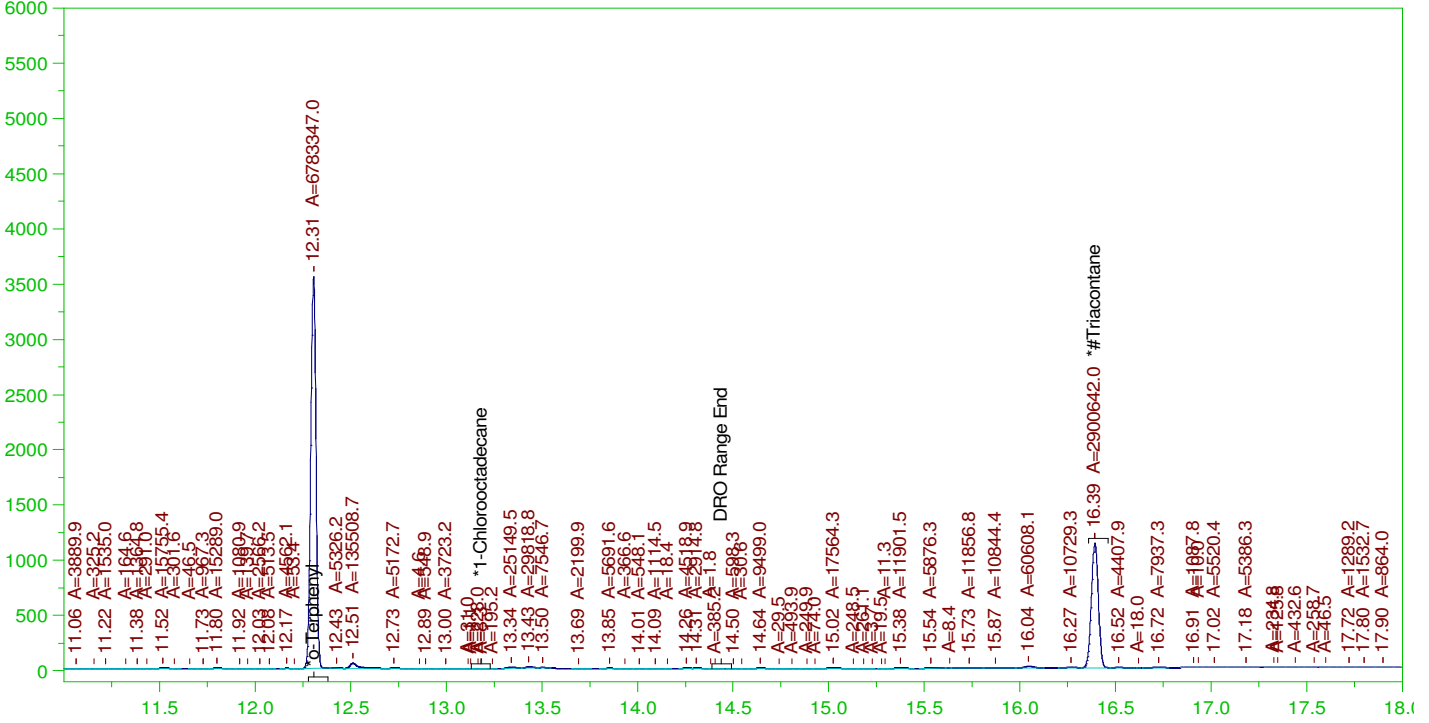


ERH2466 (RHMW09)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0026.RAW

B22011132-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011132-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0026.RAW  
Date & Time Acquired: 1/23/2022 4:05:09 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.198	.182	92.02	-
*1-Chlorooctadecane	29.805	.198	.		-
*#Triacontane	16.391	.198	.097	48.94	-

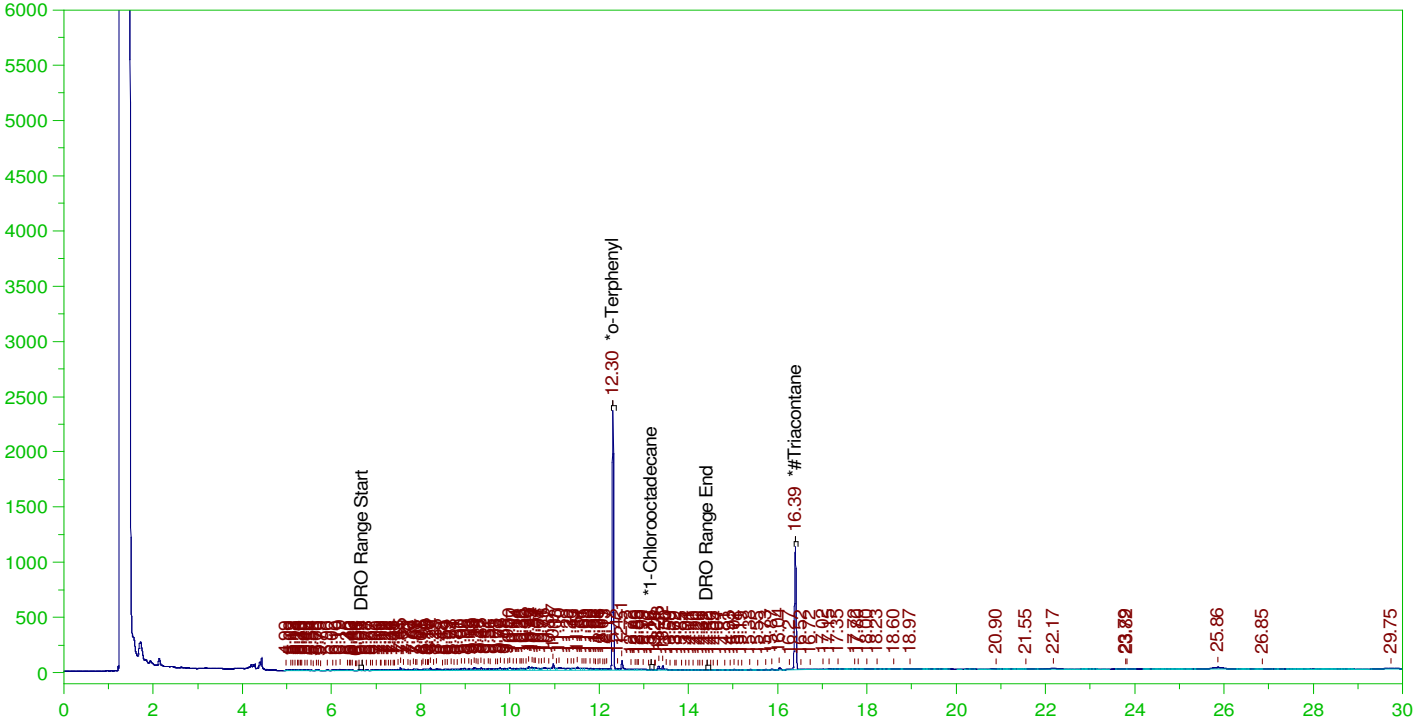
DRO Area:434290.4 DRO Amount: 1.315947E-02  
TEH Area:1266974 TEH Amount: 3.839068E-02

ERH2426 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0027.RAW

B22011134-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011134-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0027.RAW  
Date & Time Acquired: 1/23/2022 4:48:00 AM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.2	.122	61.09	-
*1-Chlorooctadecane	13.164	.2	.001	.37	-
*#Triacontane	16.392	.2	.097	48.57	-

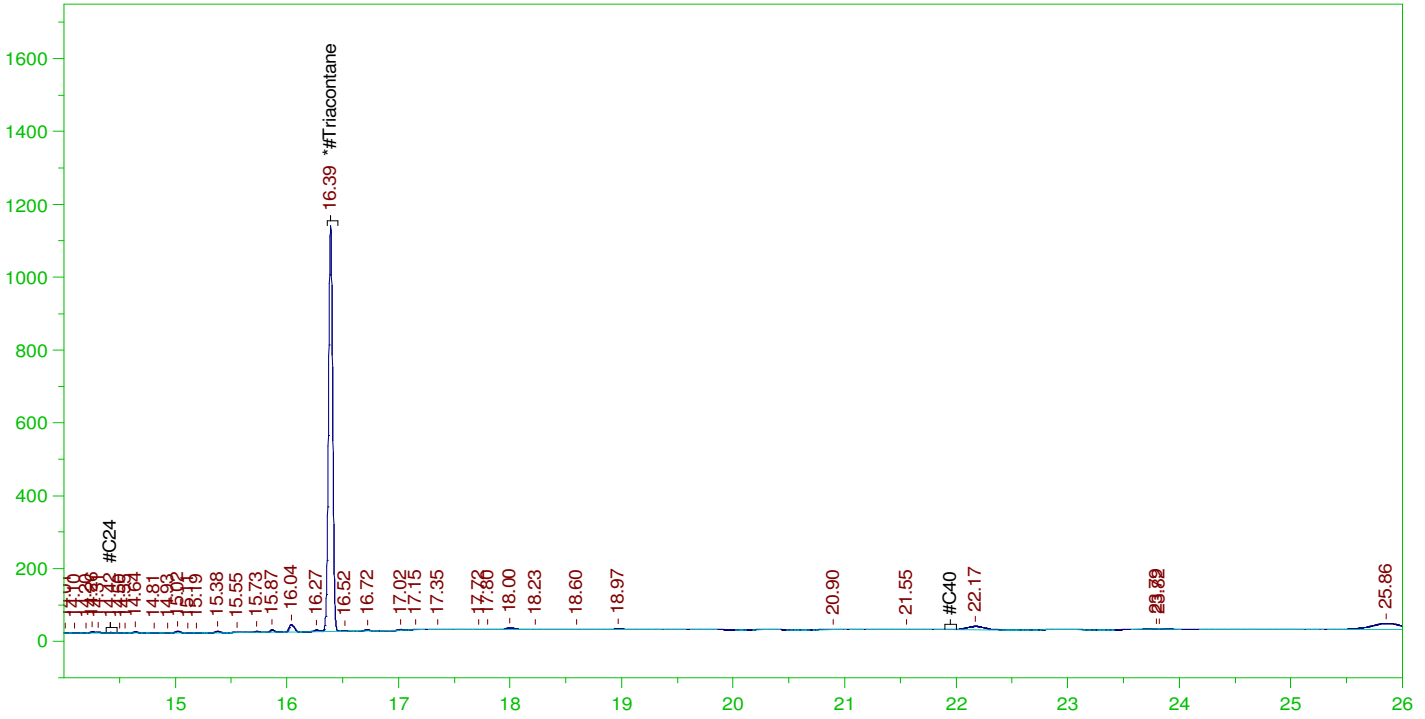
DRO Area:5199394 DRO Amount: 0.1591228  
TEH Area:6154199 TEH Amount: 0.1883437

ERH2426 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0027.RAW

B22011134-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011134-001D ;0122HP5 , \$HC-8015-DRO-W,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0027.RAW  
 Date & Time Acquired: 1/23/2022 4:48:00 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BBb-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.392	.5	.097	19.43

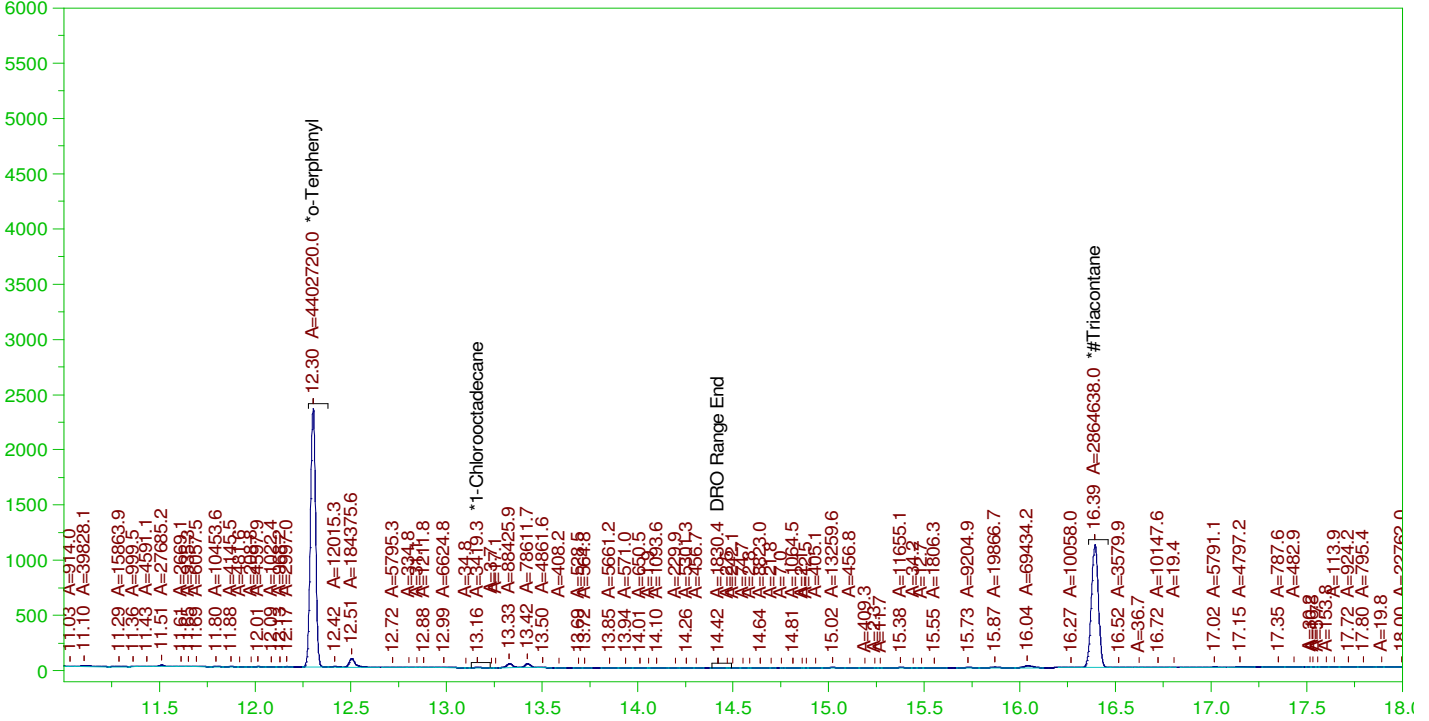
RRO Area:254600.5 RRO AMOUNT: 9.634999E-03

ERH2426 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0027.RAW

B22011134-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011134-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0027.RAW  
Date & Time Acquired: 1/23/2022 4:48:00 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.2	.119	59.73	-
*1-Chlorooctadecane	13.164	.2	.05		-
*#Triacontane	16.392	.2	.097	48.33	-

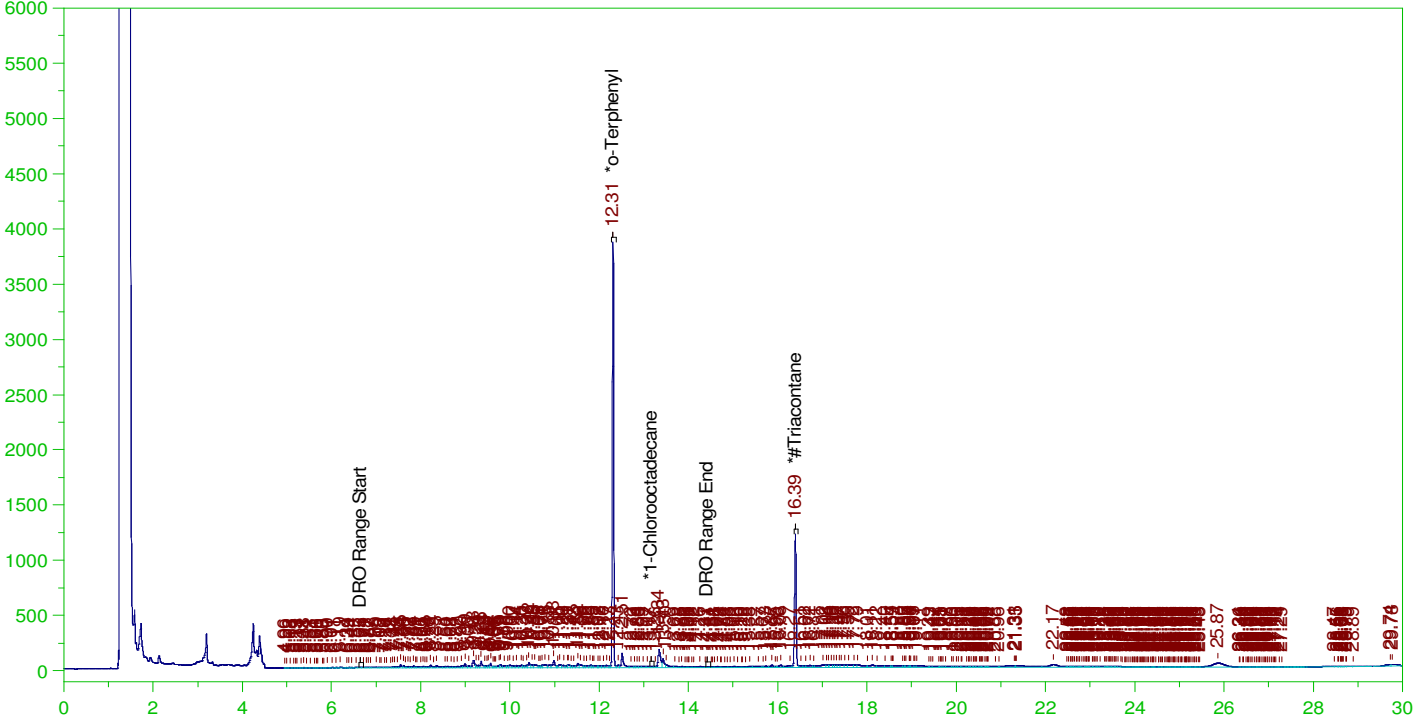
DRO Area:1726446 DRO Amount: 5.283631E-02  
TEH Area:3833031 TEH Amount: 0.1173065

ERH2427 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0028.RAW

B22011134-002B ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011134-002B ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0028.RAW  
Date & Time Acquired: 1/23/2022 5:30:48 AM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.202	.204	101.13	-
*1-Chlorooctadecane	13.173	.202	.001	.71	-
*#Triacontane	16.392	.202	.111	55.03	-

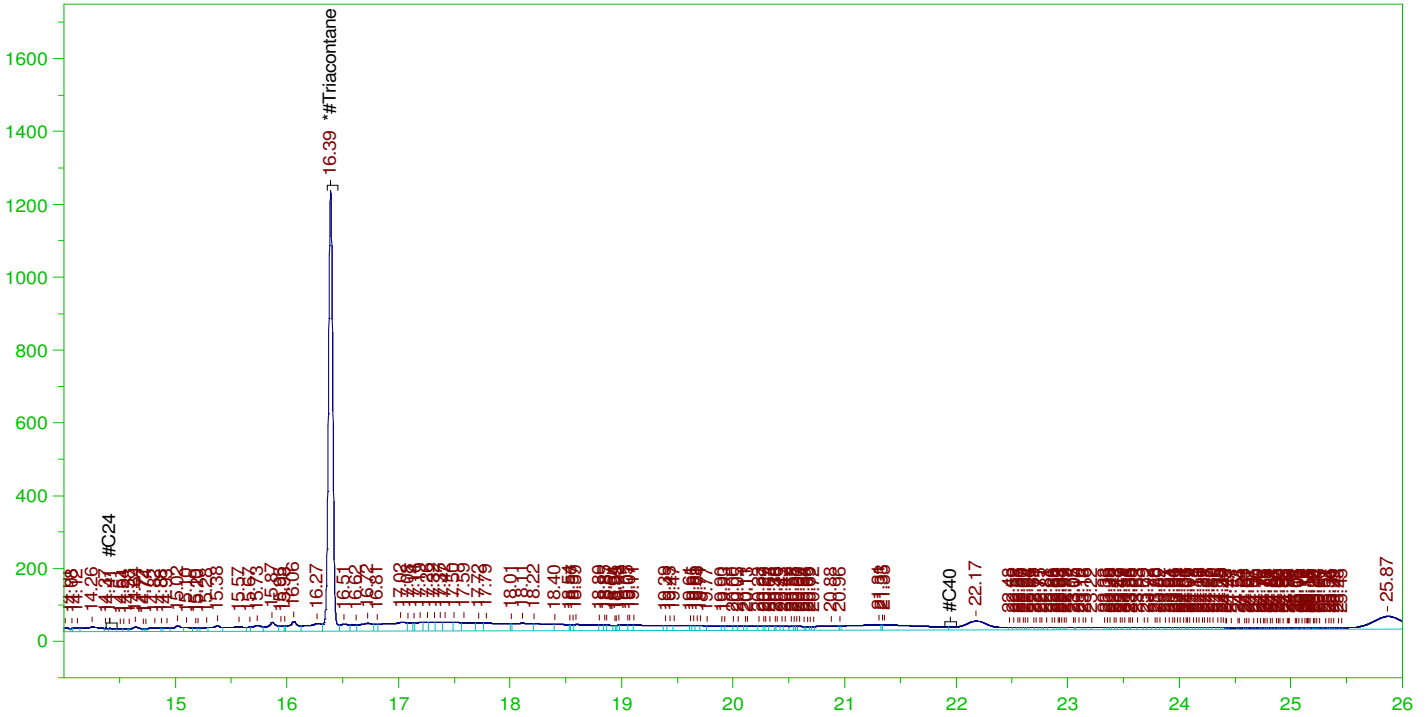
DRO Area:9080650 DRO Amount: 0.2807122  
TEH Area:1.779328E+07 TEH Amount: 0.5500479

ERH2427 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0028.RAW

B22011134-002B ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011134-002B ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0028.RAW  
Date & Time Acquired: 1/23/2022 5:30:48 AM  
Method File: G:\Org\HP5\Methods\D3\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.392	.505	.111	22.01

RRO Area:6083199 RRO AMOUNT: 0.2325355

ERH2427 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0028.RAW

B22011134-002B ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

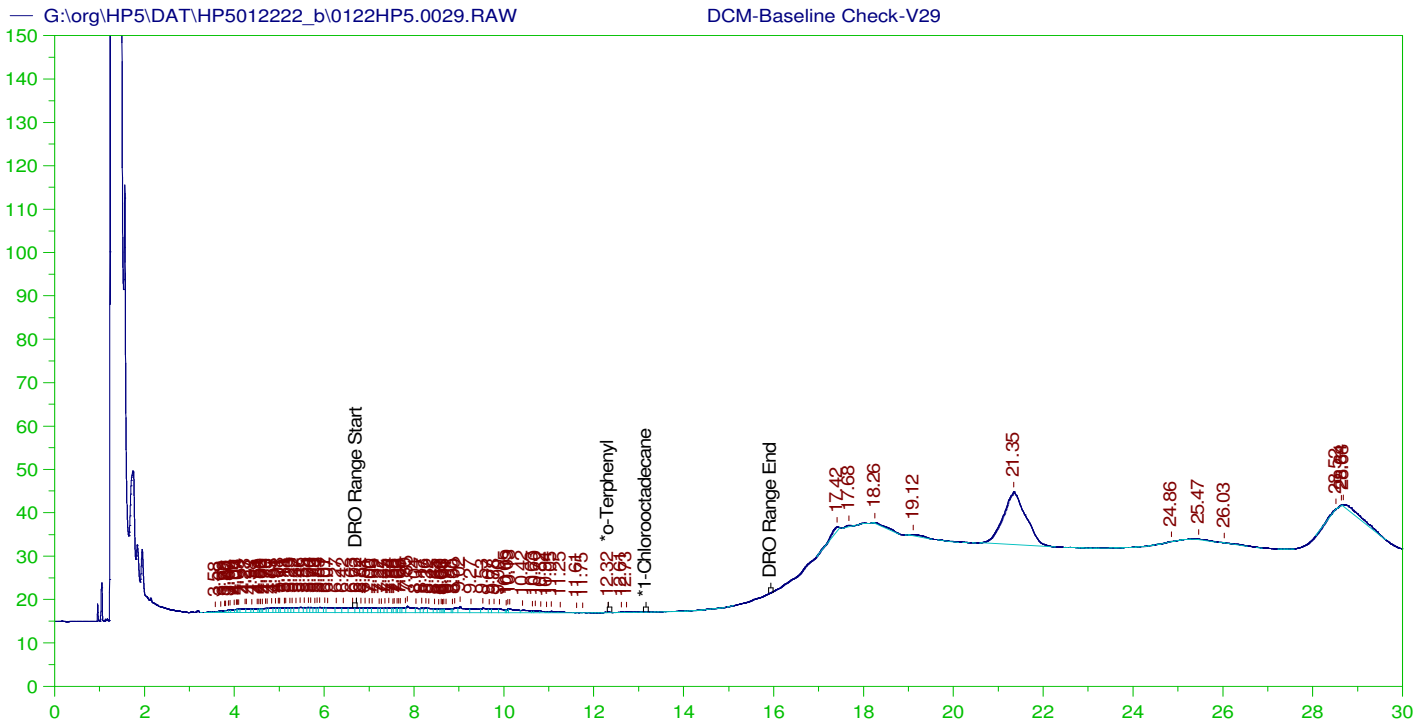
Sample Name: B22011134-002B ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0028.RAW  
Date & Time Acquired: 1/23/2022 5:30:48 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.202	.2	99.16	-
*1-Chlorooctadecane	13.173	.202	.	.02	-
*#Triacontane	16.392	.202	.106	52.44	-

DRO Area:2870056 DRO Amount: 8.872272E-02  
TEH Area:7762694 TEH Amount: 0.23997



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V29  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0029.RAW  
 Date & Time Acquired: 1/23/2022 6:13:37 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.318	200.	.023	.01
*1-Chlorooctadecane	28.681	200.	.	.

DRO Area:227191.7 DRO Amount: 6.952997  
 TEH Area:903688.1 TEH Amount: 27.65656

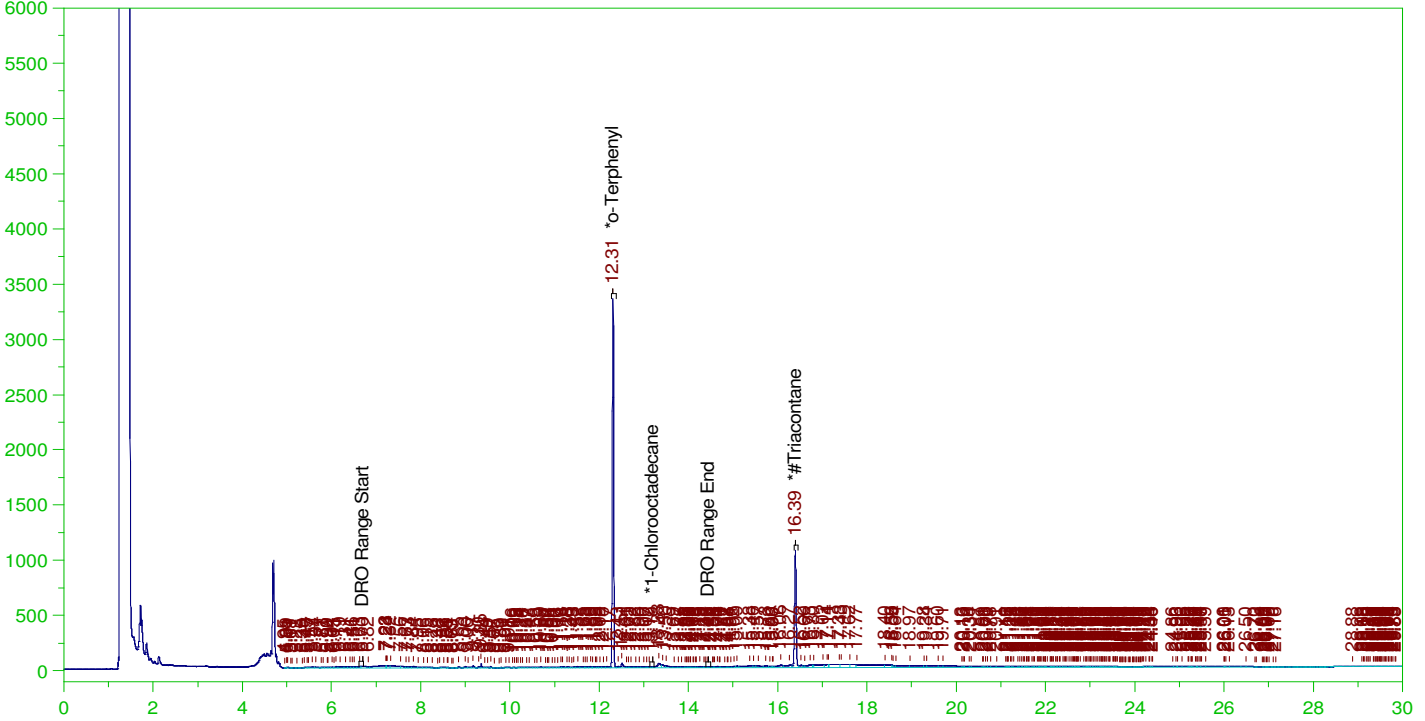


ERH2450 (OWDFMW05A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0030.RAW

B22011126-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011126-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0030.RAW  
Date & Time Acquired: 1/23/2022 6:56:23 AM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.19	.165	86.52	-
*1-Chlorooctadecane	13.189	.19	.001	.36	-
*#Triacontane	16.391	.19	.092	48.33	-

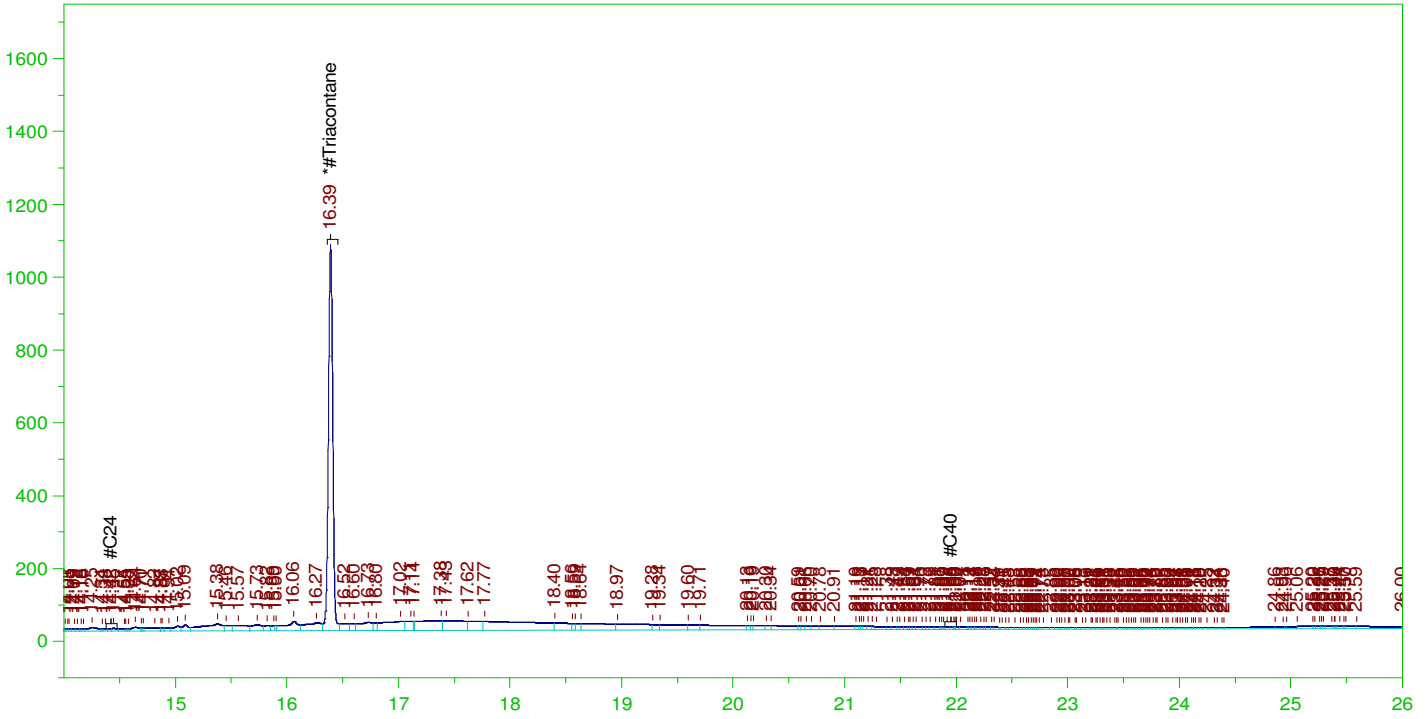
DRO Area:4039019 DRO Amount: 0.1177243  
TEH Area:1.24447E+07 TEH Amount: 0.3627226

ERH2450 (OWDFMW05A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0030.RAW

B22011126-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011126-001D ;0122HP5 , \$HC-8015-DRO-W,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0030.RAW  
 Date & Time Acquired: 1/23/2022 6:56:23 AM  
 Method File: G:\Org\HP5\Methods\D3\_OROS-BBb-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.476	.092	19.33

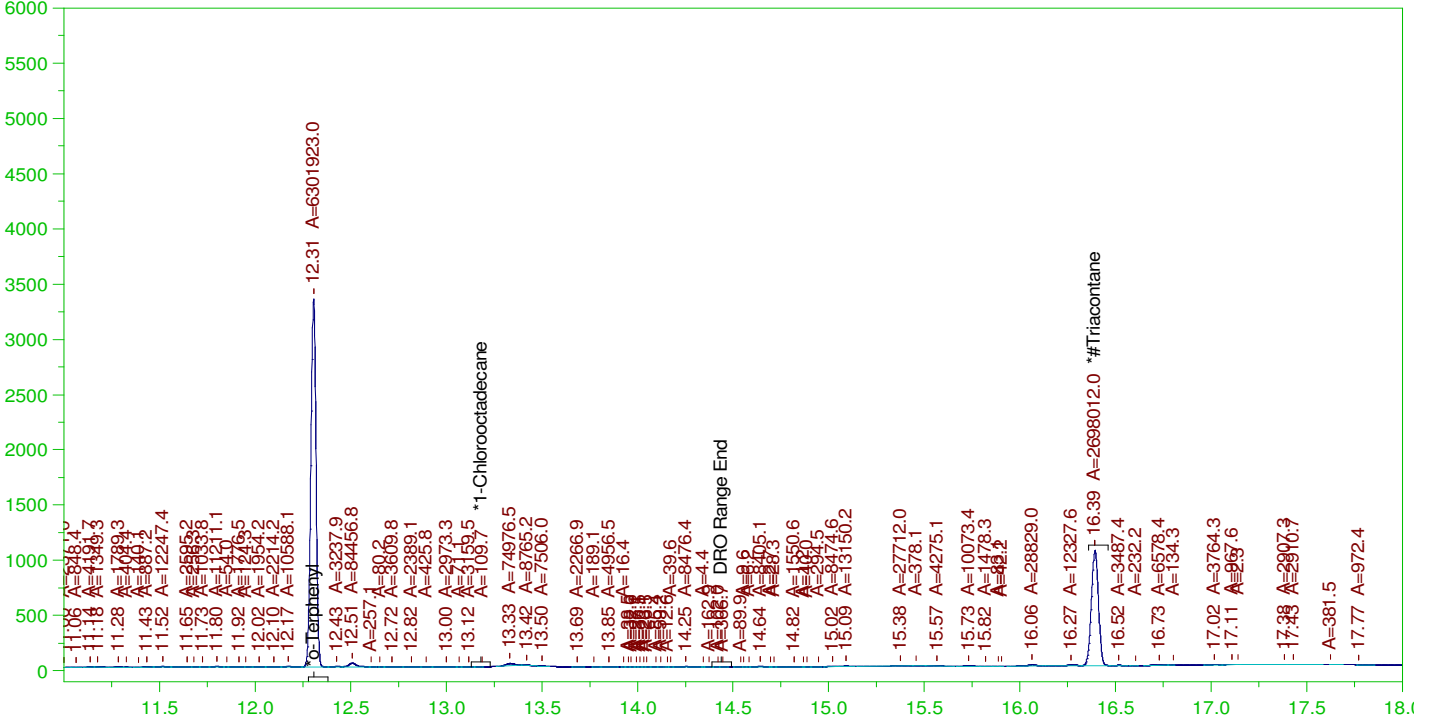
RRO Area:6678150 RRO AMOUNT: 0.2406906

ERH2450 (OWDFM05A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0030.RAW

B22011126-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011126-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0030.RAW  
Date & Time Acquired: 1/23/2022 6:56:23 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.19	.163	85.49	-
*1-Chlorooctadecane	29.988	.19	.		-
*#Triacontane	16.391	.19	.087	45.52	-

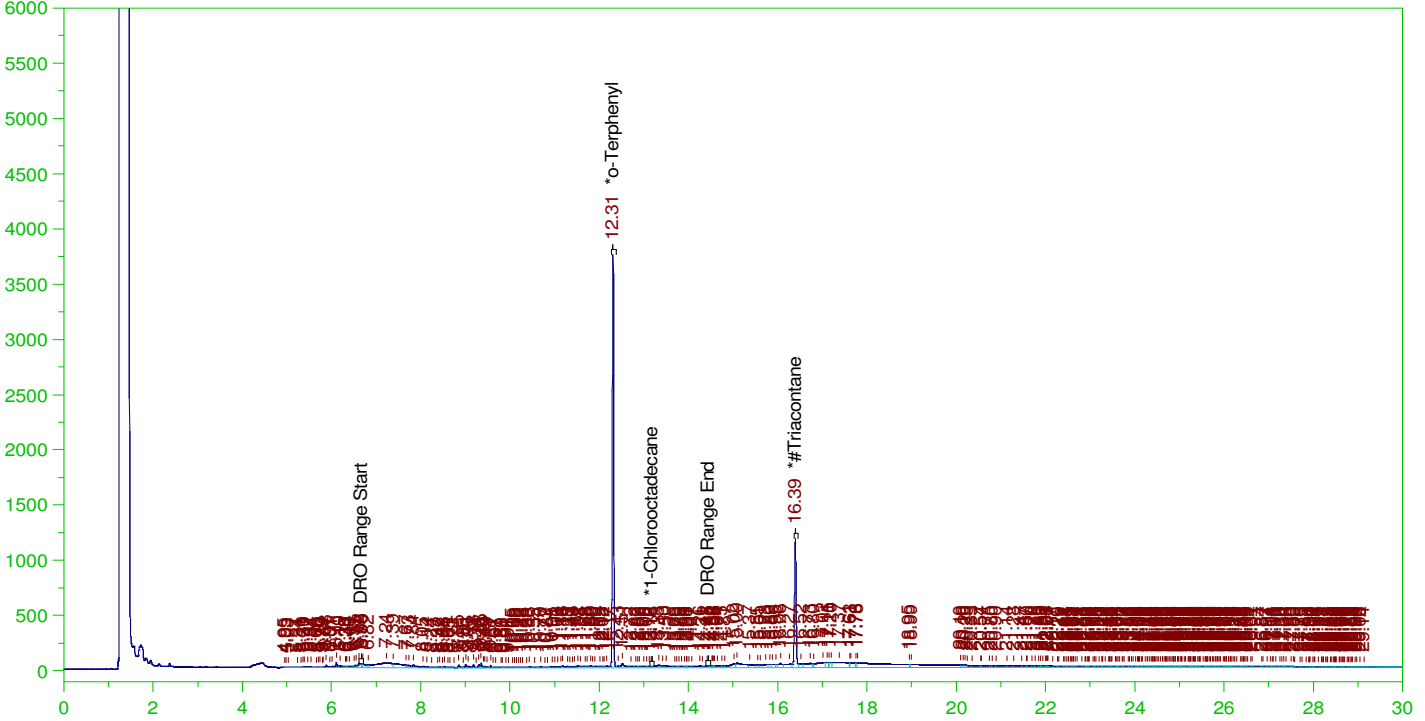
DRO Area:2163584 DRO Amount: 6.306146E-02  
TEH Area:8371480 TEH Amount: 0.2440015

ERH2448 (OWDFMW04A)

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0031.RAW

Batch ID: 163074

B22011128-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011128-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0031.RAW  
Date & Time Acquired: 1/23/2022 7:38:54 AM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.194	.189	97.56	-
*1-Chlorooctadecane	13.179	.194	.	.21	-
*#Triacontane	16.391	.194	.105	54.28	-

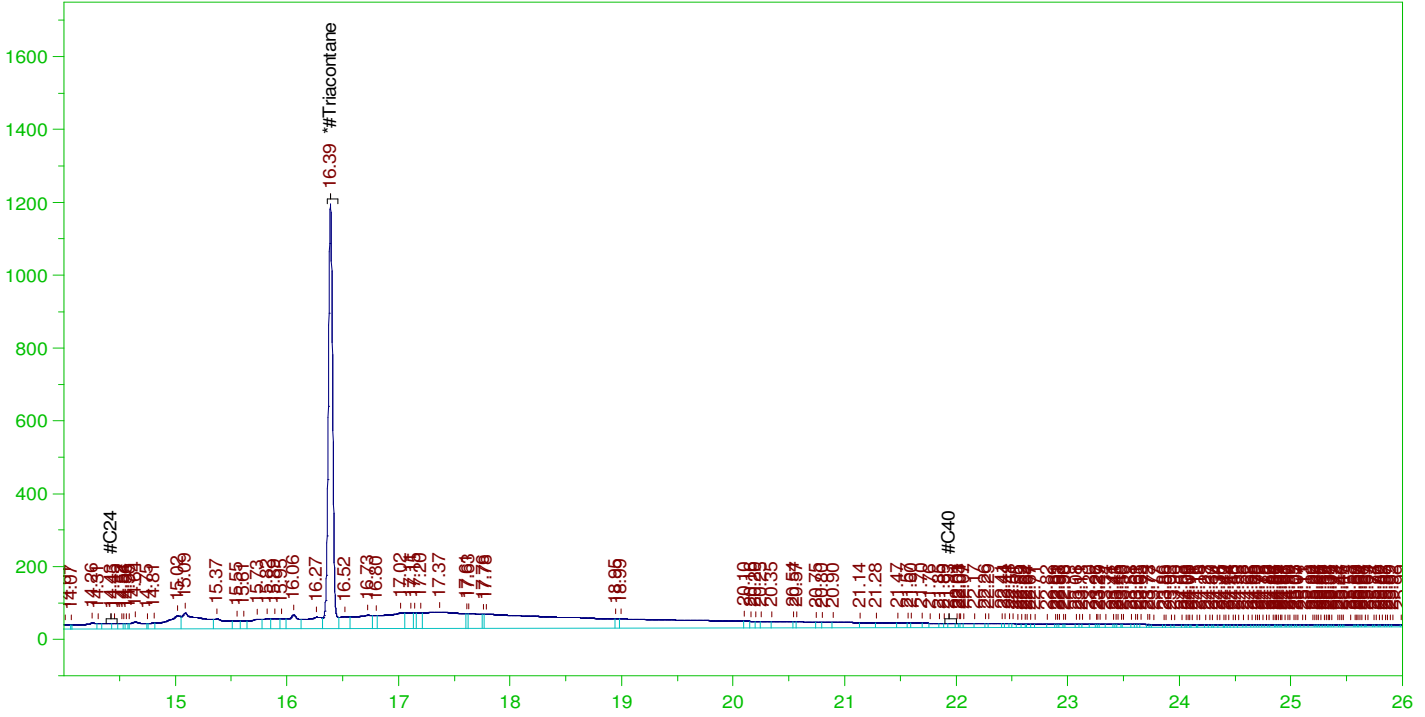
DRO Area:6002891 DRO Amount: 0.1783622  
TEH Area:2.020443E+07 TEH Amount: 0.6003284

ERH2448 (OWDFMW04A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0031.RAW

B22011128-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011128-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0031.RAW  
Date & Time Acquired: 1/23/2022 7:38:54 AM  
Method File: G:\Org\HP5\Methods\D3\_OROS-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.485	.105	21.71

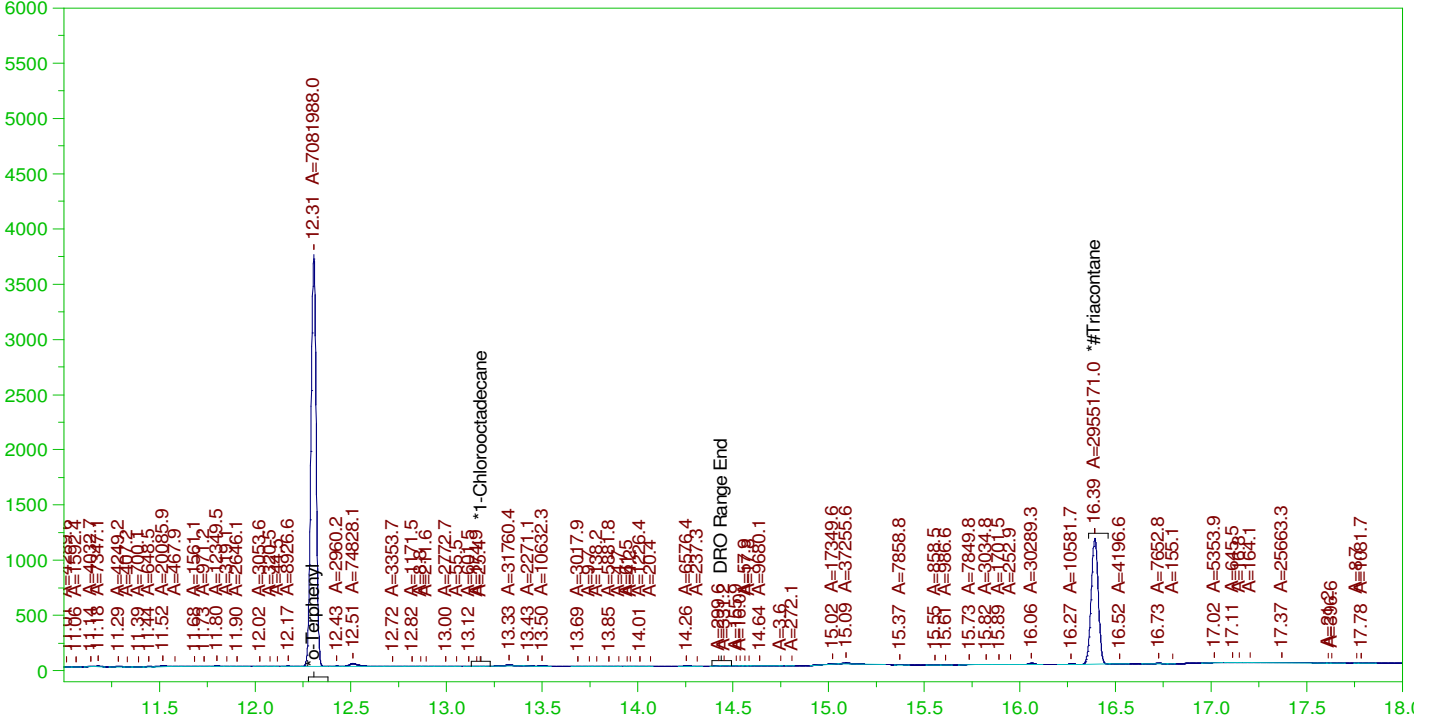
RRO Area:1.111089E+07 RRO AMOUNT: 0.408229

ERH2448 (OWDFMW04A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0031.RAW

B22011128-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011128-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0031.RAW  
Date & Time Acquired: 1/23/2022 7:38:54 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	.194	.187	96.07
*1-Chlorooctadecane	29.983	.194	.	-
*#Triacontane	16.391	.194	.097	49.86

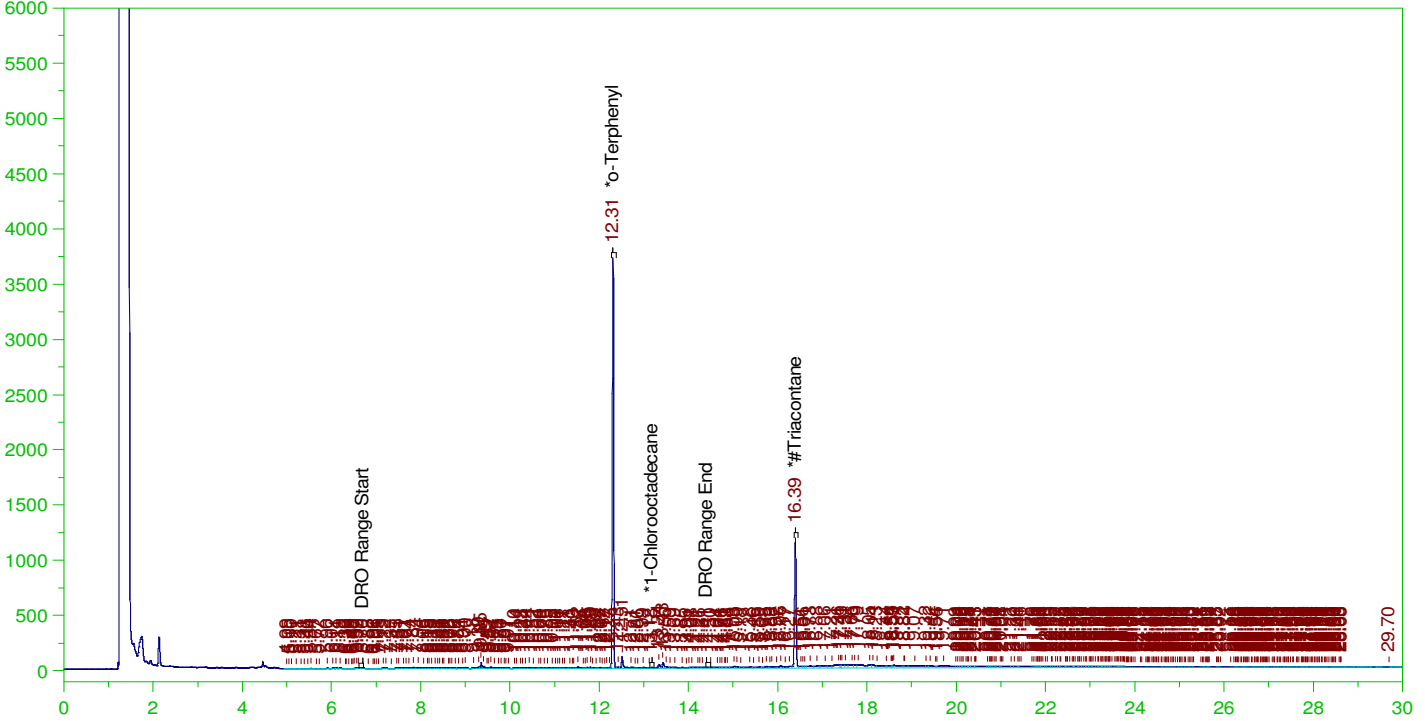
DRO Area:3455137 DRO Amount: 0.1026615  
TEH Area:5686573 TEH Amount: 0.1689635

ERH2472 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0032.RAW

B22011125-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011125-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0032.RAW  
Date & Time Acquired: 1/23/2022 8:21:33 AM  
Method File: G:\Org\HP5\Methods\D3\_8015-012232-JB-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.202	.197	97.28	-
*1-Chlorooctadecane	13.175	.202	.001	.32	-
*#Triacontane	16.391	.202	.108	53.28	-

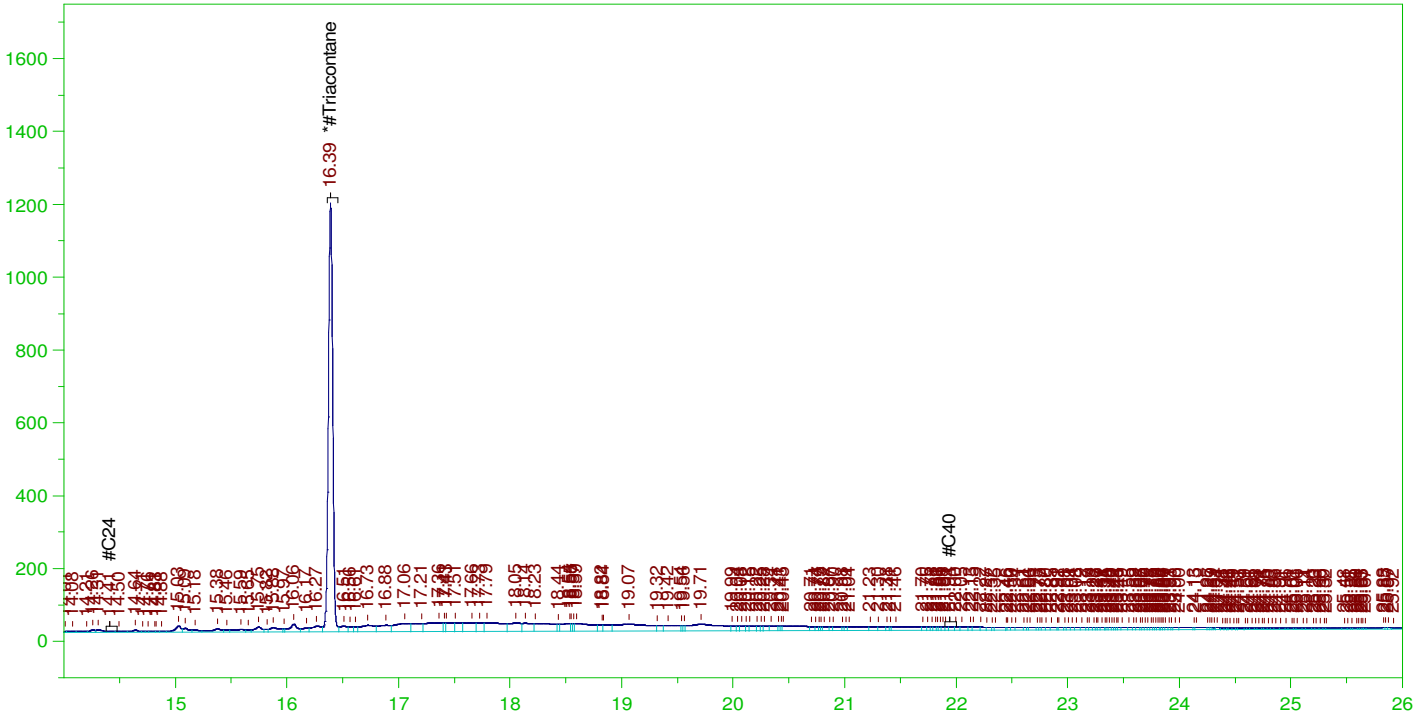
DRO Area:1887061 DRO Amount: 5.833516E-02  
TEH Area:9974510 TEH Amount: 0.3083444

ERH2472 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0032.RAW

B22011125-001D ;0122HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011125-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0032.RAW  
Date & Time Acquired: 1/23/2022 8:21:33 AM  
Method File: G:\Org\HP5\Methods\D3\_OROS-012232-BBb-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BBb\_SAMP.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.38 to 22

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.505	.108	21.31

RRO Area:6296502 RRO AMOUNT: 0.2406891

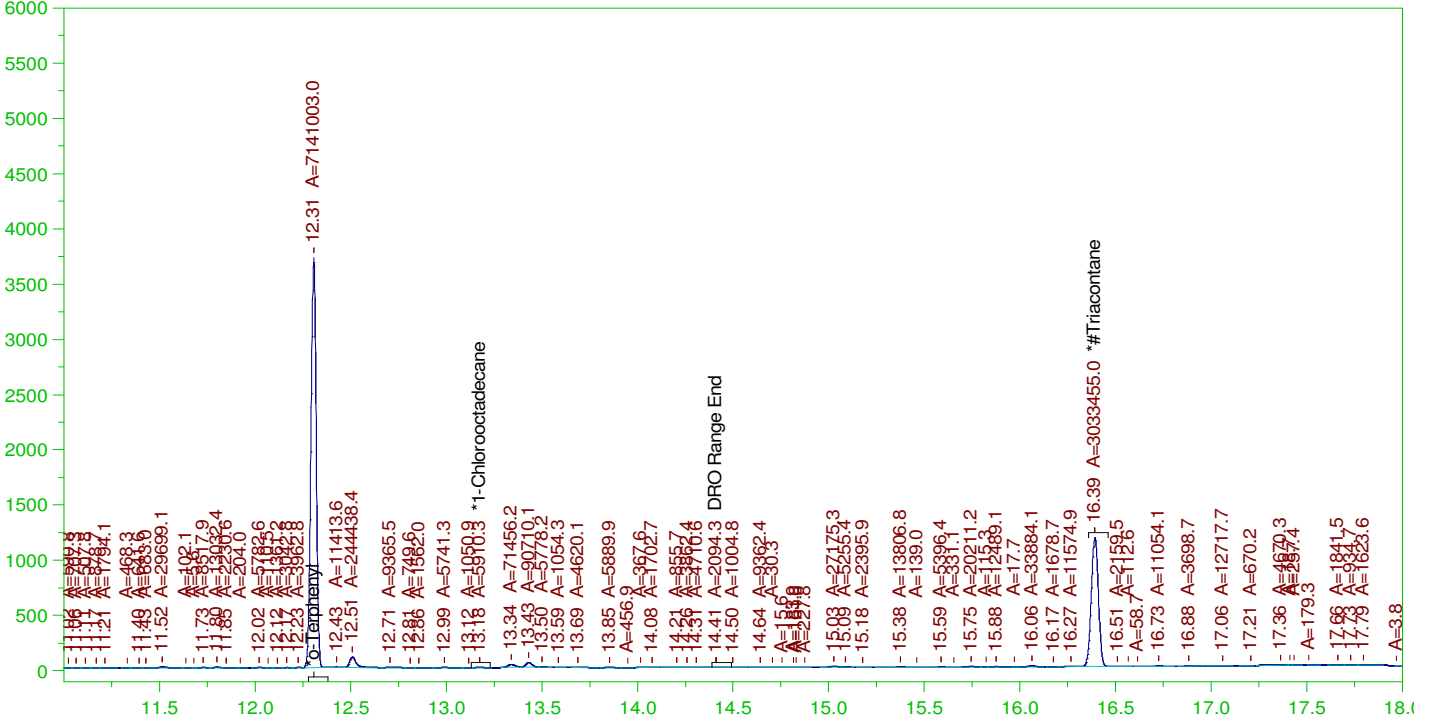


ERH2472 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0032.RAW

B22011125-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

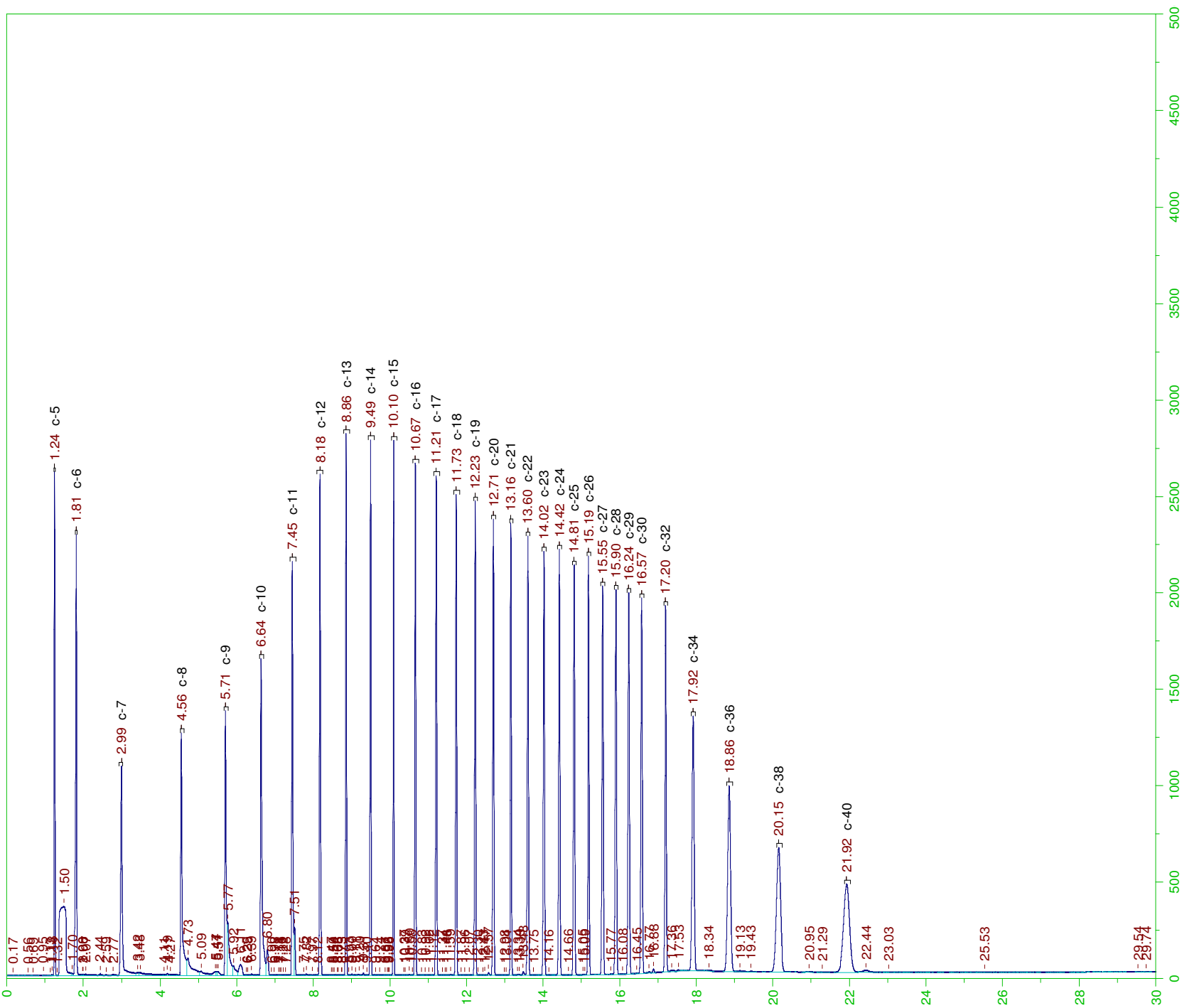
Sample Name: B22011125-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0032.RAW  
Date & Time Acquired: 1/23/2022 8:21:33 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-BB-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

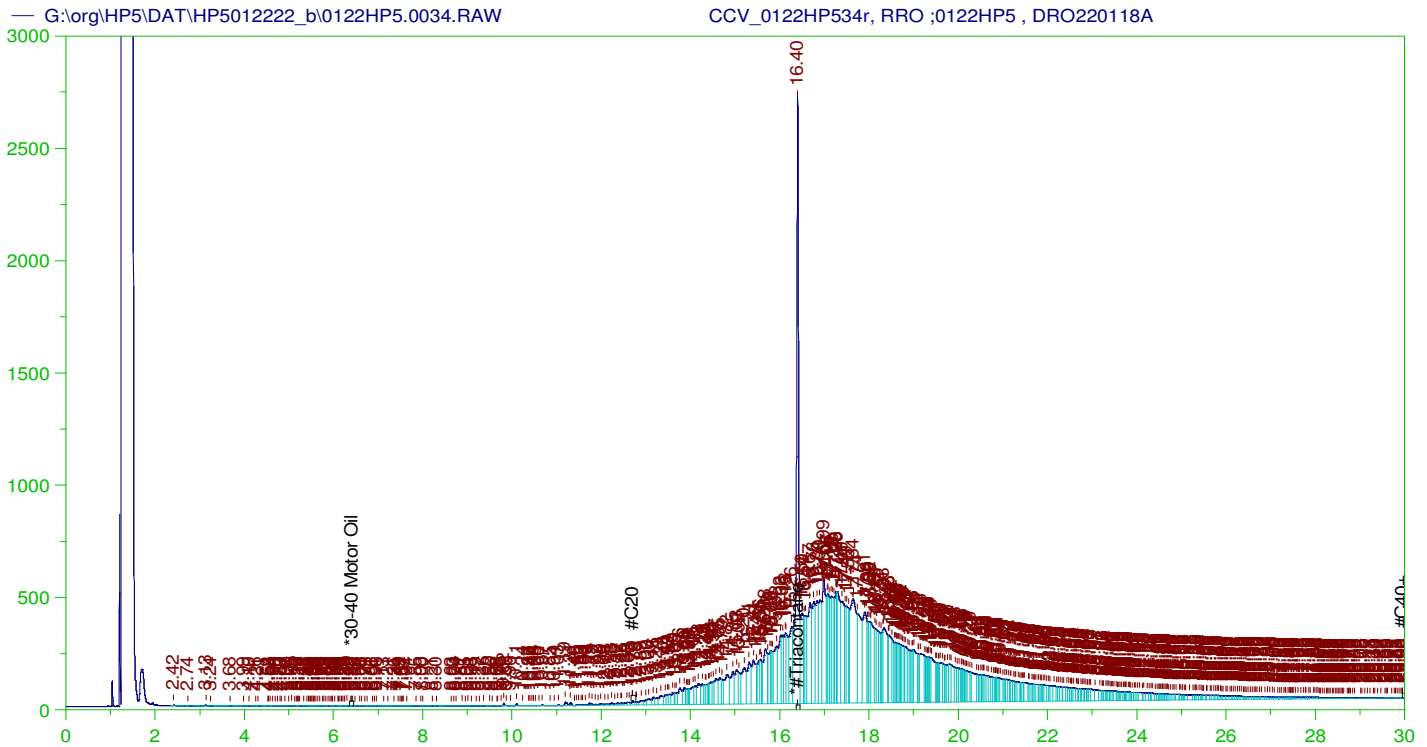
Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.202	.196	96.87	-
*1-Chlorooctadecane	13.175	.202	.	.08	-
*#Triacontane	16.391	.202	.103	51.18	-

DRO Area:1231728 DRO Amount: 3.807671E-02  
TEH Area:2086401 TEH Amount: 6.449739E-02





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP534r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0034.RAW  
 Date & Time Acquired: 1/23/2022 9:46:55 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.398	500.	324.005	64.8	-

RRO TEH(Oil Range) Area:1.174582E+08 RRO TEH(Oil Range) AMOUNT: 4445.04

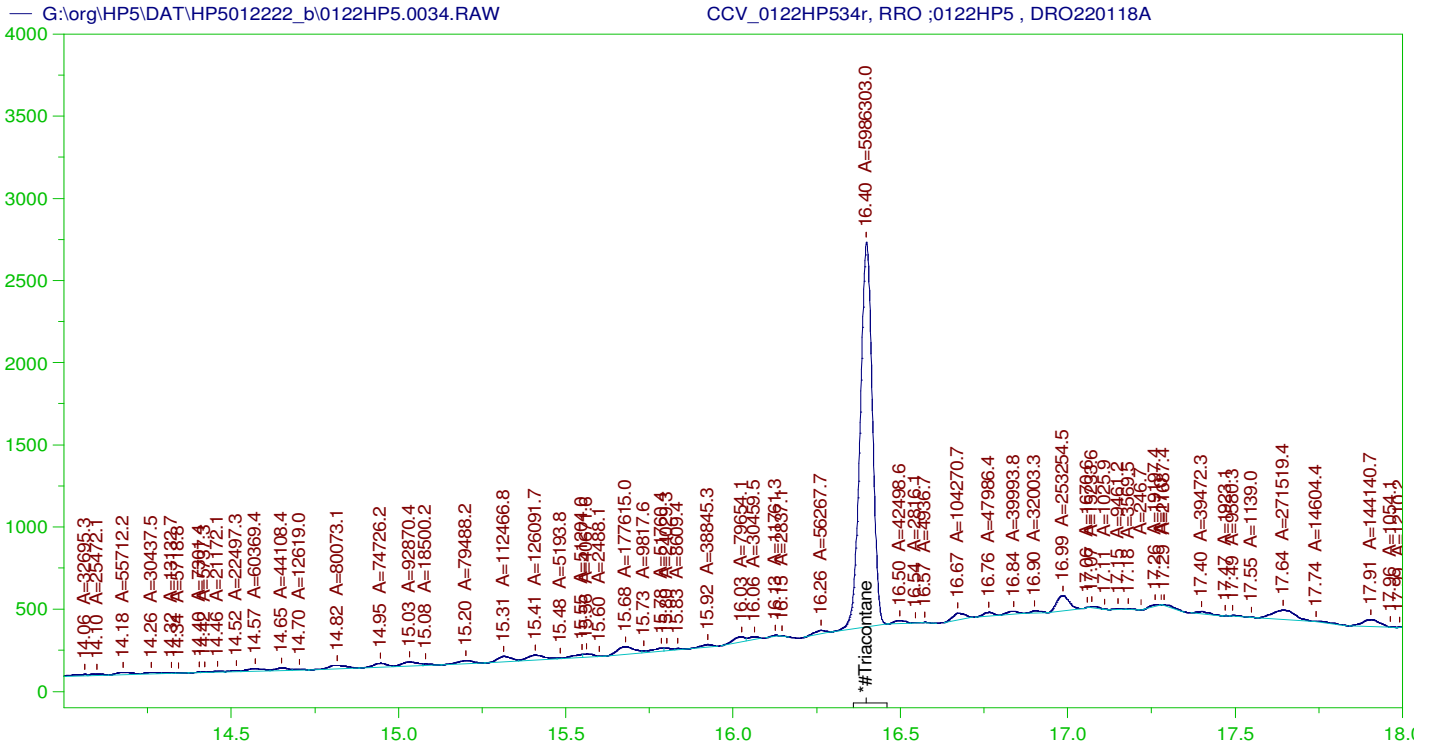
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0034.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.096	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.398	200.	324.005	162.	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP534r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0034.RAW  
 Date & Time Acquired: 1/23/2022 9:46:55 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.67 to 30.05

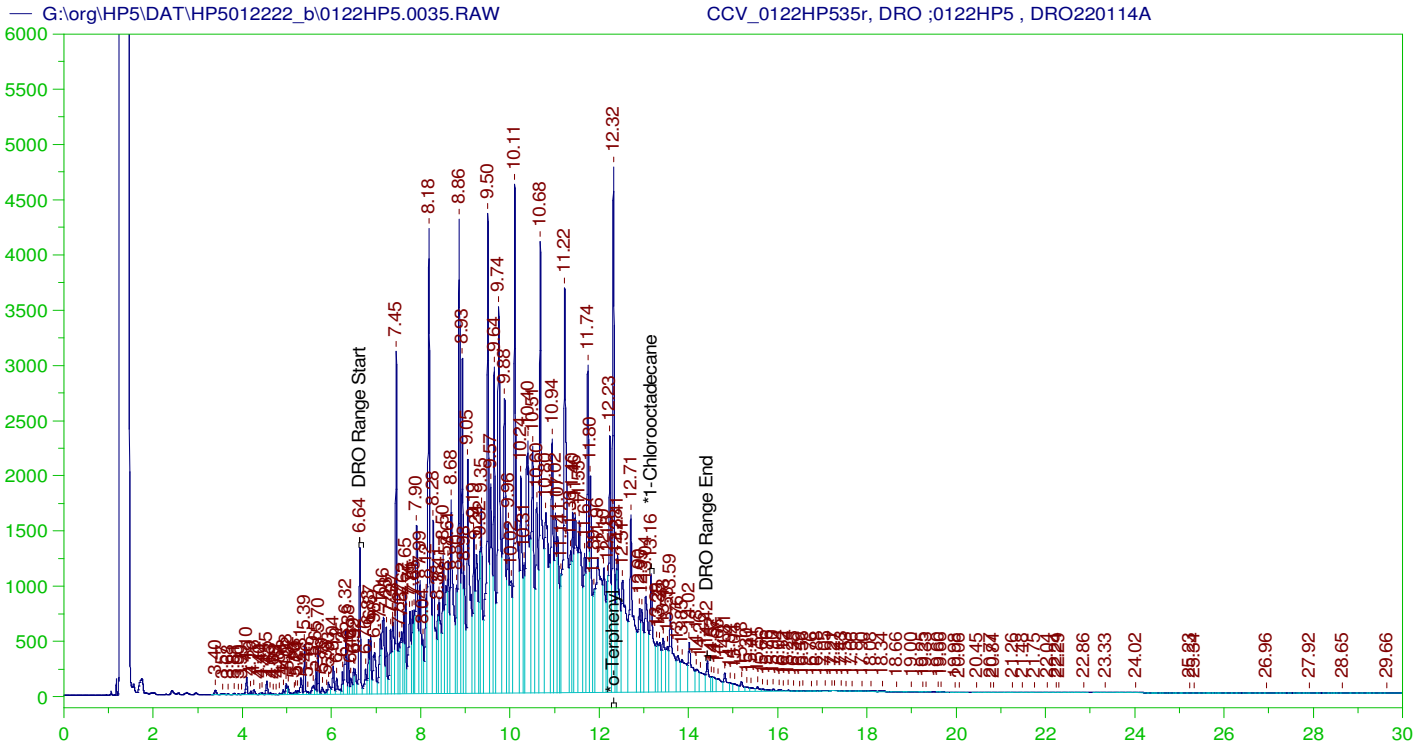
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.398	500.	201.994	40.4

RRO Area:3237772 RRO AMOUNT: 122.5289

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0034.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.096	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.398	200.	201.994	101.	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP535r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0035.RAW  
 Date & Time Acquired: 1/23/2022 10:29:33 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JB-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

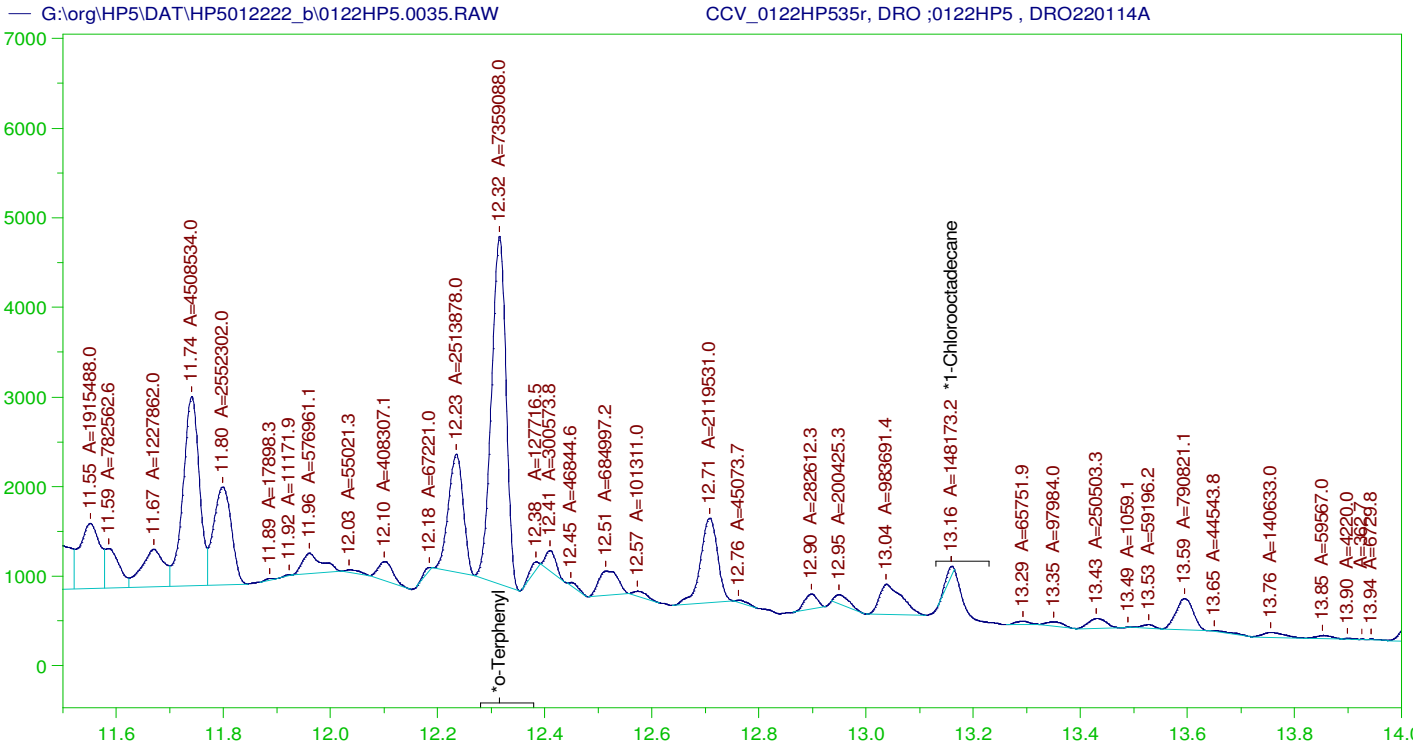
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.315	200.	320.323	160.16
*1-Chlorooctadecane	13.16	200.	150.577	75.29

DRO Area: 4.509578E+08 DRO Amount: 13801.16  
 TEH Area: 4.671448E+08 TEH Amount: 14296.55

**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0035.RAW**

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14296.55	95.31	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.315	200.	320.323	160.16	85-115
*1-Chlorooctadecane	13.16	200.	150.577	75.29	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP535r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0035.RAW  
 Date & Time Acquired: 1/23/2022 10:29:33 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JB-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

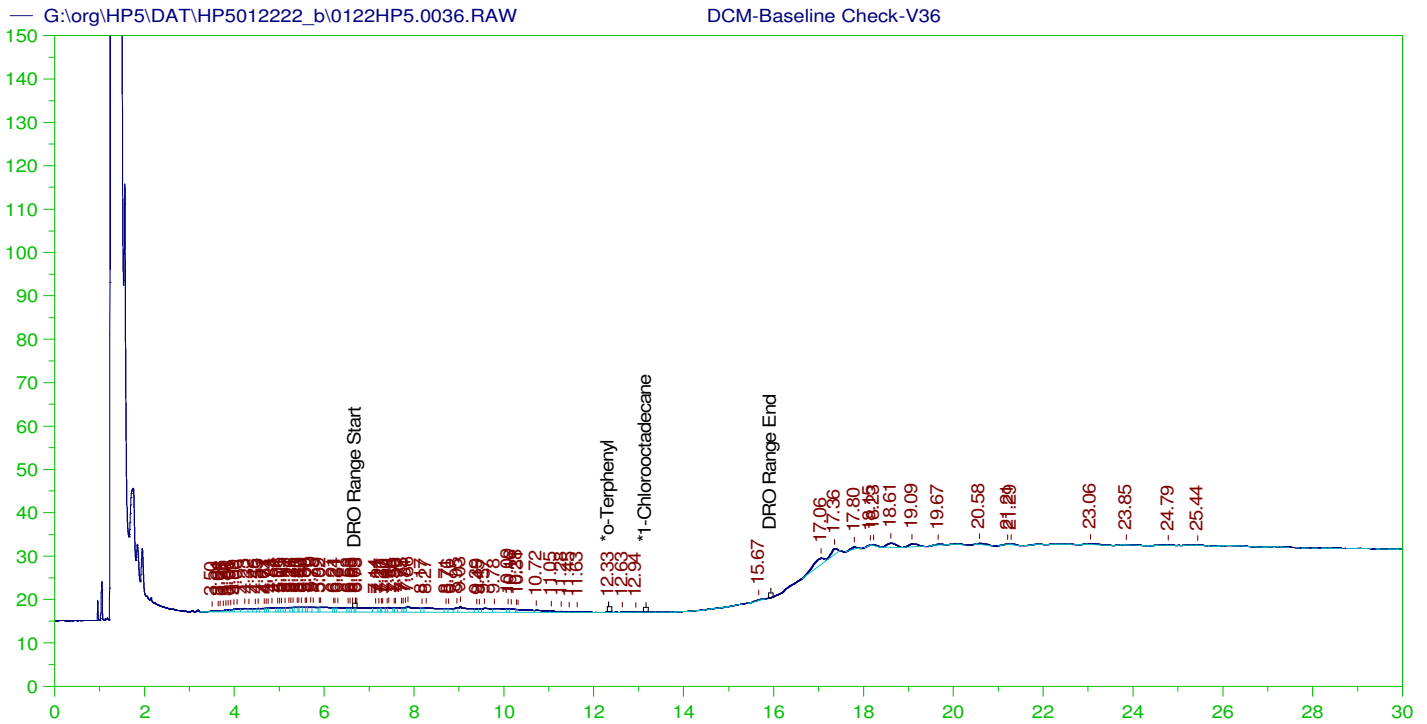
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.315	200.	199.661	99.83
*1-Chlorooctadecane	13.16	200.	4.02	2.01

DRO Area: 2.342497E+08 DRO Amount: 7169.001  
 TEH Area: 2.446785E+08 TEH Amount: 7488.165

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0035.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7488.17	49.92	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.315	200.	199.661	99.83	85-115
*1-Chlorooctadecane	13.16	200.	4.02	2.01	85-115



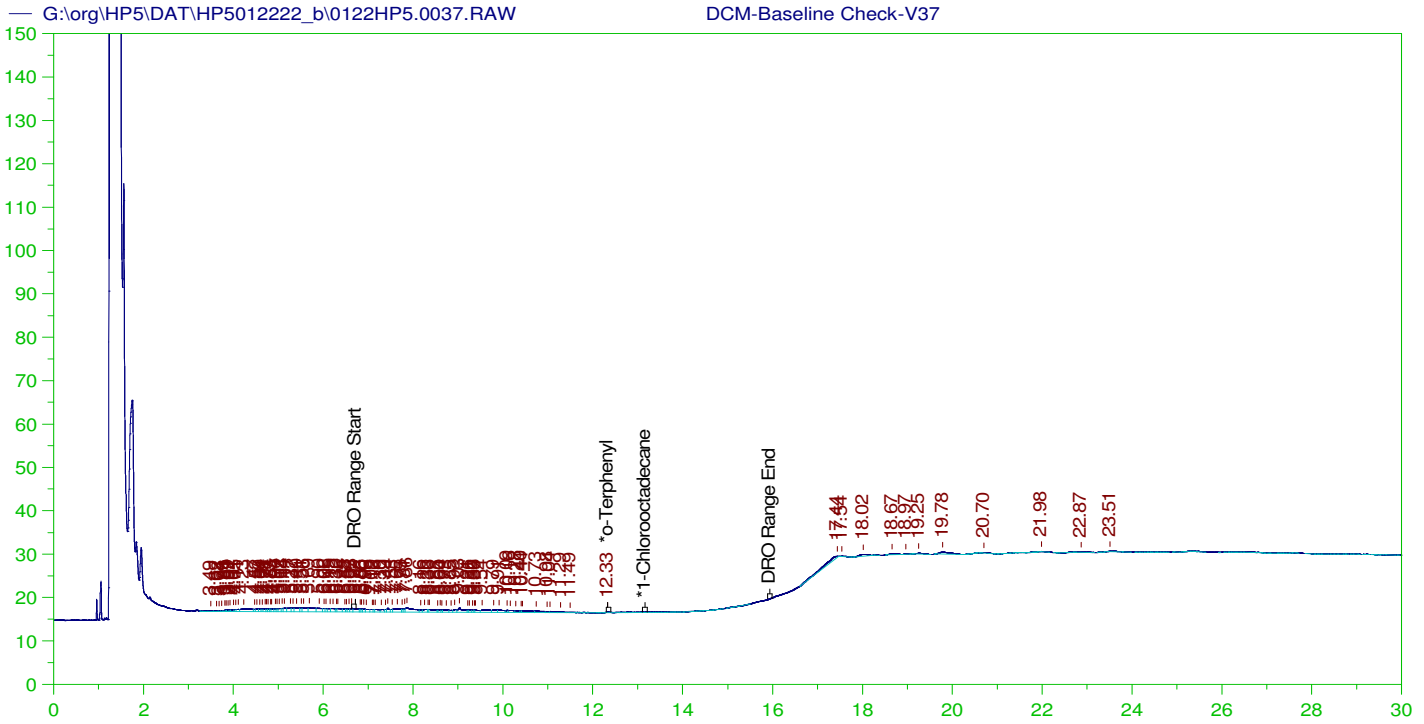
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V36  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0036.RAW  
 Date & Time Acquired: 1/23/2022 11:12:03 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.329	200.	.023	.01
*1-Chlorooctadecane	29.916	200.	.	.

DRO Area:224679.8 DRO Amount: 6.876124  
 TEH Area:475304.3 TEH Amount: 14.54626



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V37  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0037.RAW  
 Date & Time Acquired: 1/23/2022 11:54:43 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.326	200.	.031	.02 -
*1-Chlorooctadecane	29.916	200.	.	. -

DRO Area:154802.9 DRO Amount: 4.737605  
 TEH Area:324343.8 TEH Amount: 9.92625

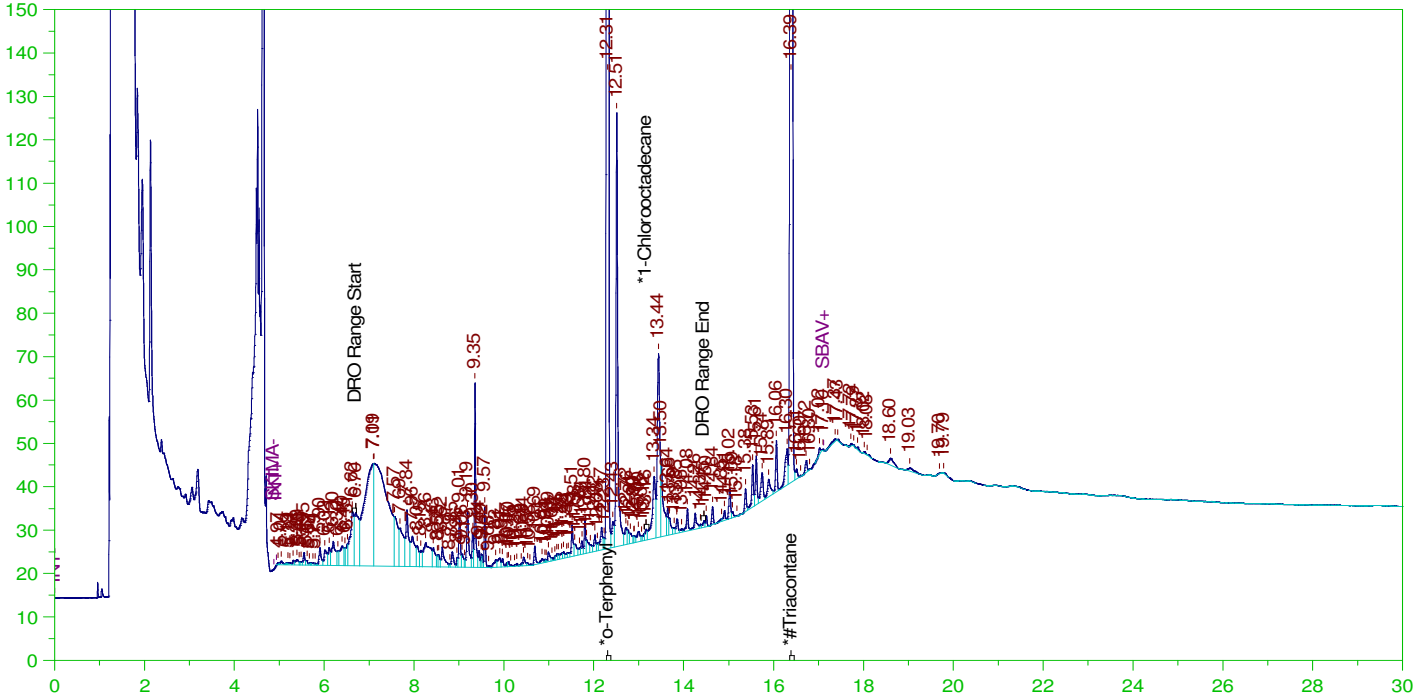


ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0038.RAW

B22011228-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011228-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0038.RAW  
Date & Time Acquired: 1/23/2022 12:37:26 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.196	.188	95.9	-
*1-Chlorooctadecane	13.16	.196	.	.11	-
*#Triacontane	16.39	.196	.1	51.06	-

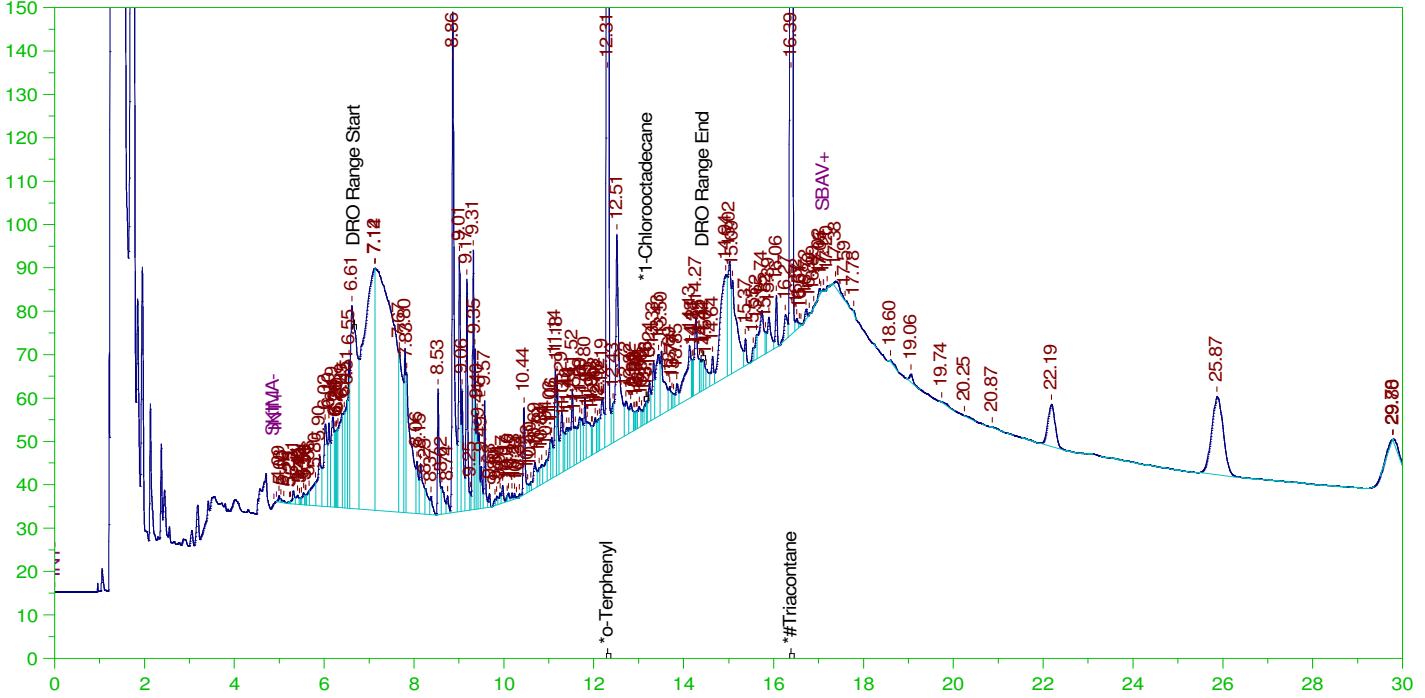
DRO Area:2580882 DRO Amount: 7.743684E-02  
TEH Area:3053680 TEH Amount: 9.162269E-02

ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0039.RAW

B22011135-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011135-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0039.RAW  
Date & Time Acquired: 1/23/2022 1:20:00 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.202	.186	91.89	-
*1-Chlorooctadecane	13.178	.202	.	.08	-
*#Triacontane	16.391	.202	.097	48.25	-

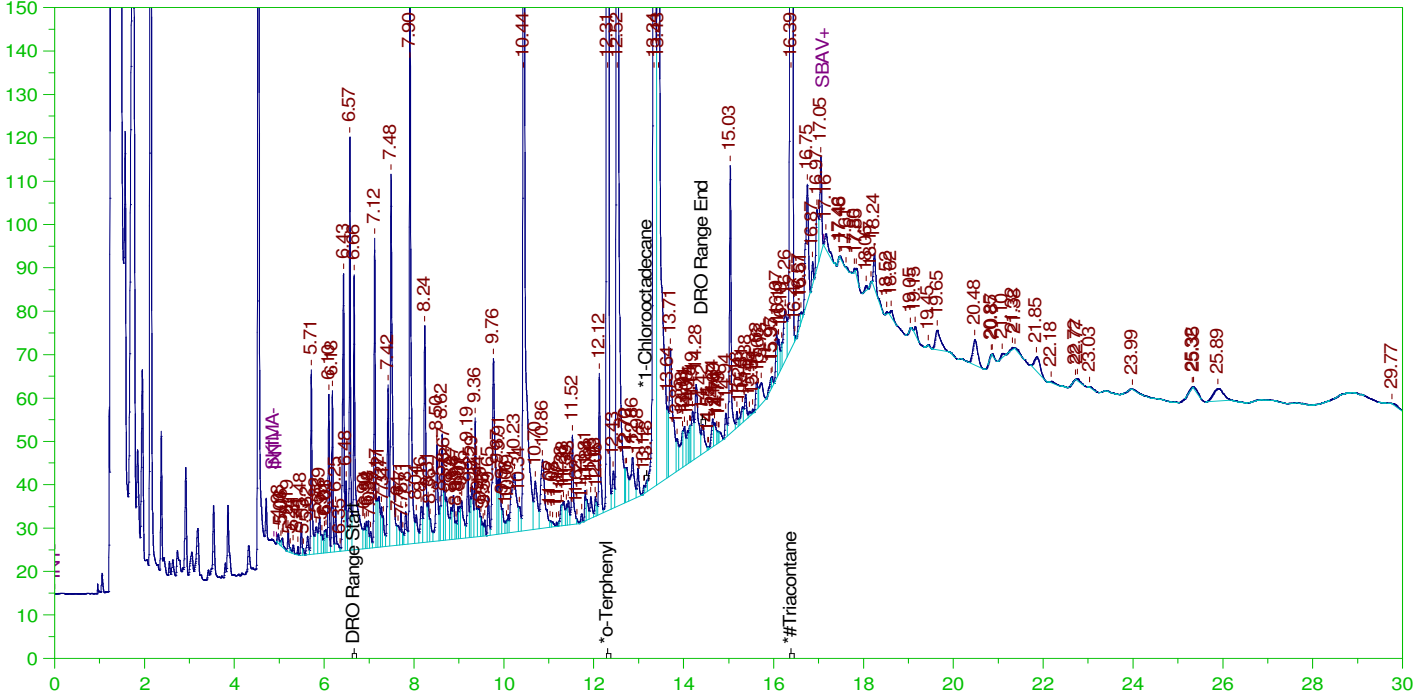
DRO Area:6437470 DRO Amount: 0.199003  
TEH Area:9164600 TEH Amount: 0.2833074

ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0040.RAW

B22011129-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

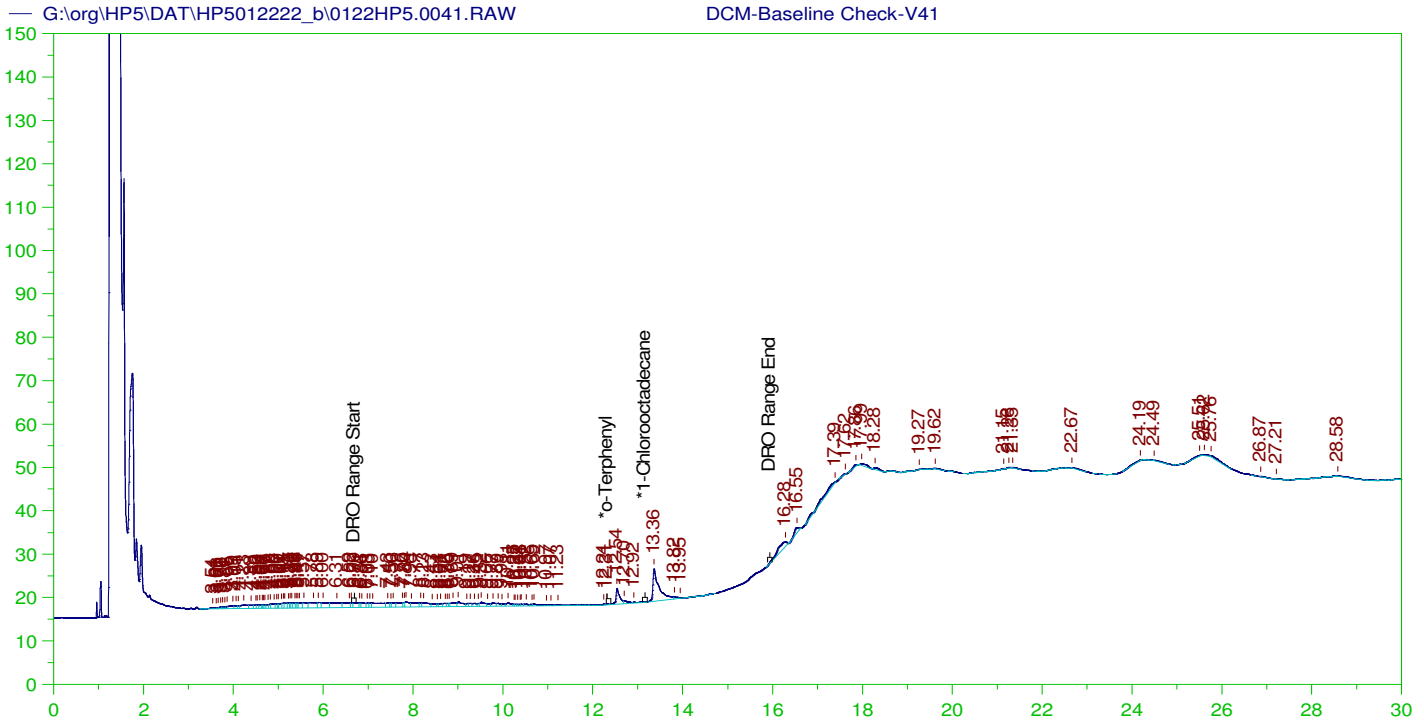
Sample Name: B22011129-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0040.RAW  
Date & Time Acquired: 1/23/2022 2:02:33 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.19	.158	83.18	-
*1-Chlorooctadecane	13.176	.19	.	.1	-
*#Triacontane	16.392	.19	.092	48.13	-

DRO Area: 9540176 DRO Amount: 0.2780652  
TEH Area: 1.136886E+07 TEH Amount: 0.3313655



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V41  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0041.RAW  
 Date & Time Acquired: 1/23/2022 2:45:17 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.312	200.	.02	.01
*1-Chlorooctadecane	29.947	200.	.	.

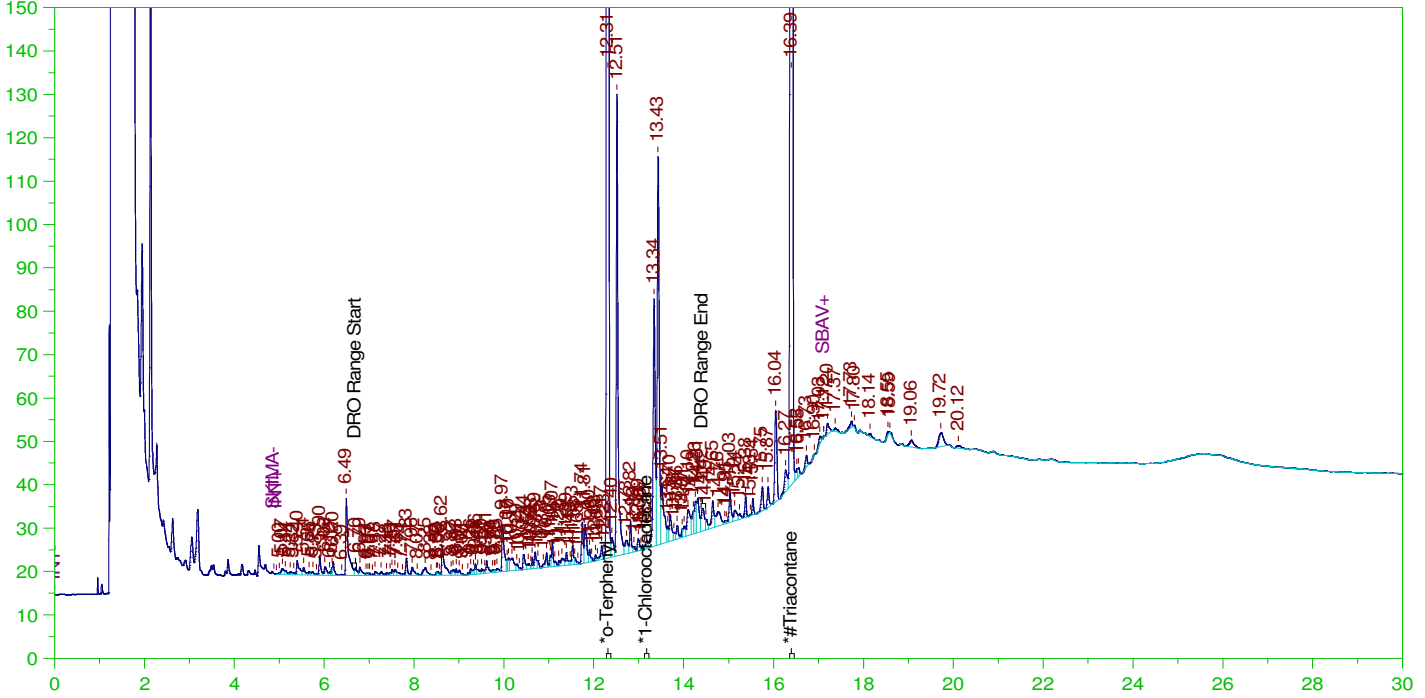
DRO Area:290940.1 DRO Amount: 8.90396  
 TEH Area:565844.9 TEH Amount: 17.31717

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0042.RAW

B22011214-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011214-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0042.RAW  
Date & Time Acquired: 1/23/2022 3:27:46 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.31	.2	.17	84.89
*1-Chlorooctadecane	13.173	.2	.08	-
*#Triacontane	16.395	.2	.097	48.37

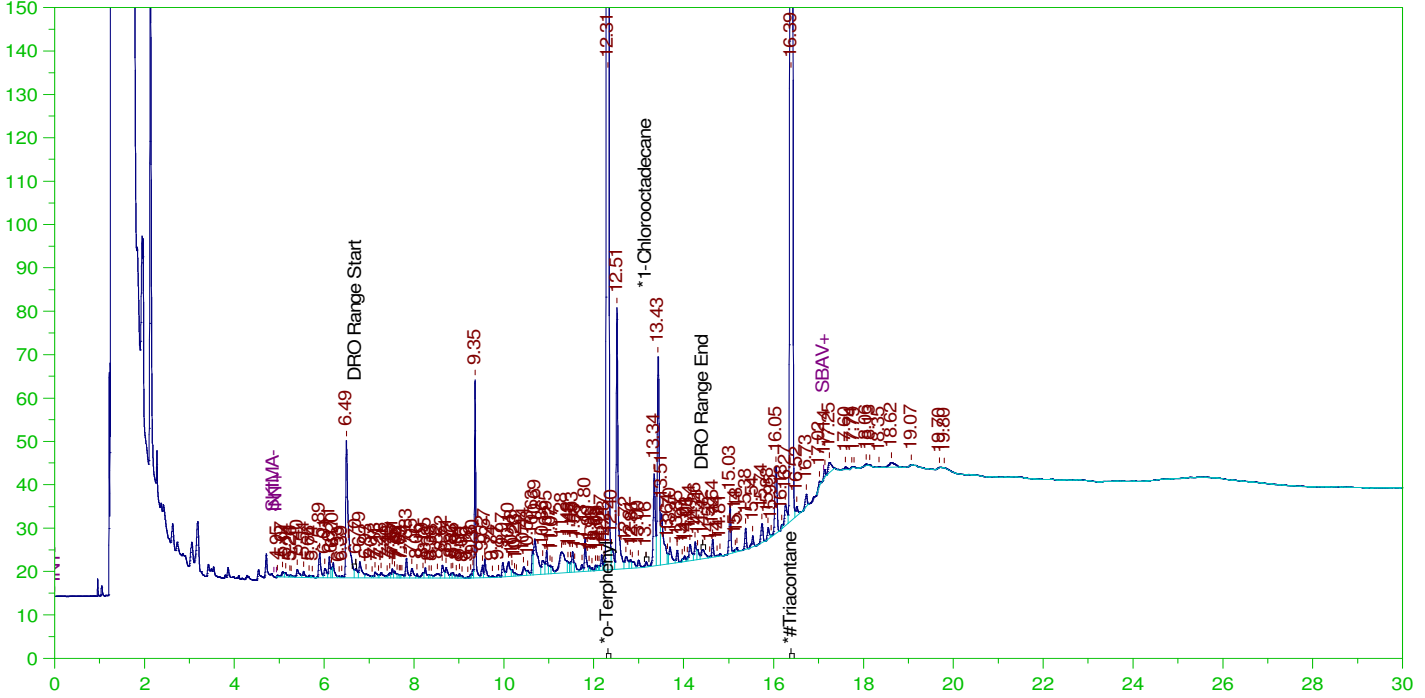
DRO Area:1485269 DRO Amount: 4.545531E-02  
TEH Area:1991736 TEH Amount: 0.0609553

ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012222\_b\0122HP5.0043.RAW

B22011227-001D ;0122HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

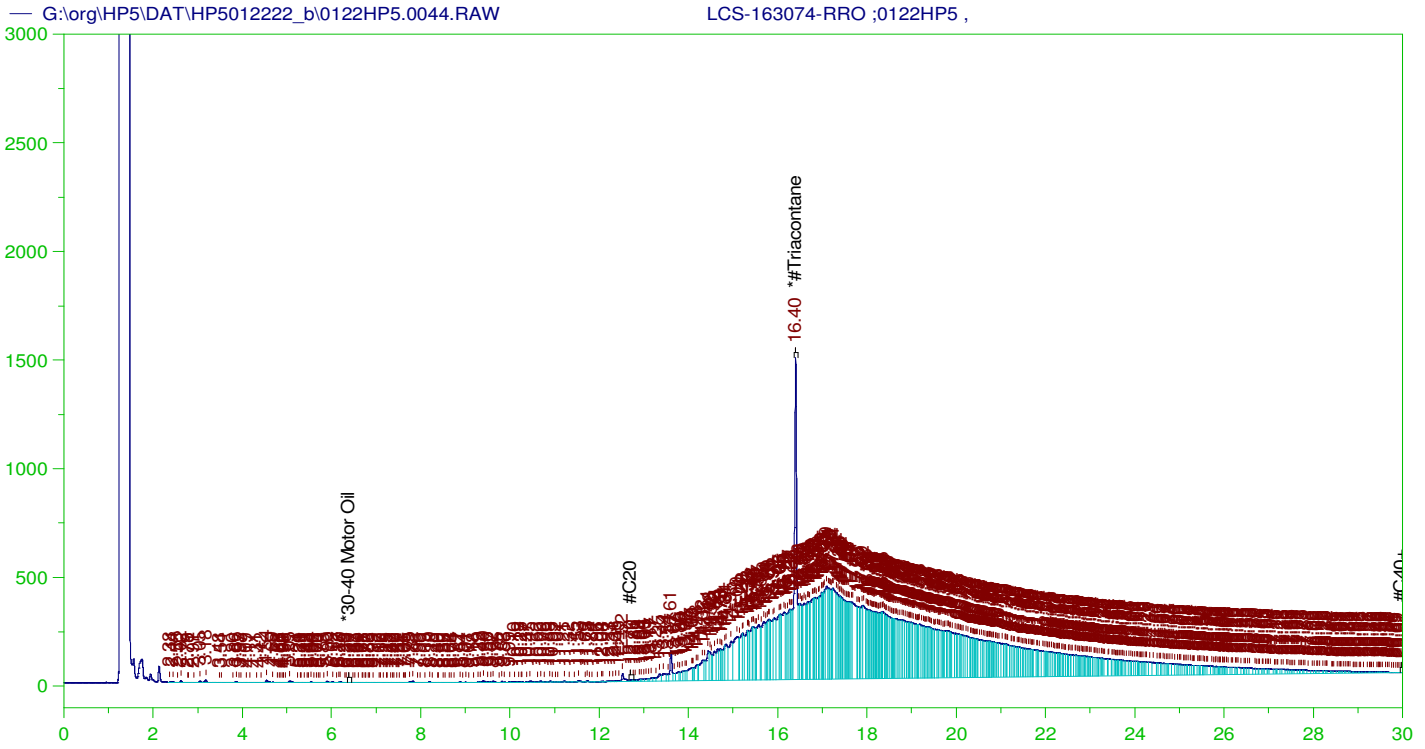
Sample Name: B22011227-001D ;0122HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0043.RAW  
Date & Time Acquired: 1/23/2022 4:10:20 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.309	.202	.197	97.37	-
*1-Chlorooctadecane	13.162	.202	.	.05	-
*#Triacontane	16.393	.202	.104	51.26	-

DRO Area:1120403 DRO Amount: 3.463528E-02  
TEH Area:1578742 TEH Amount: 4.880403E-02



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

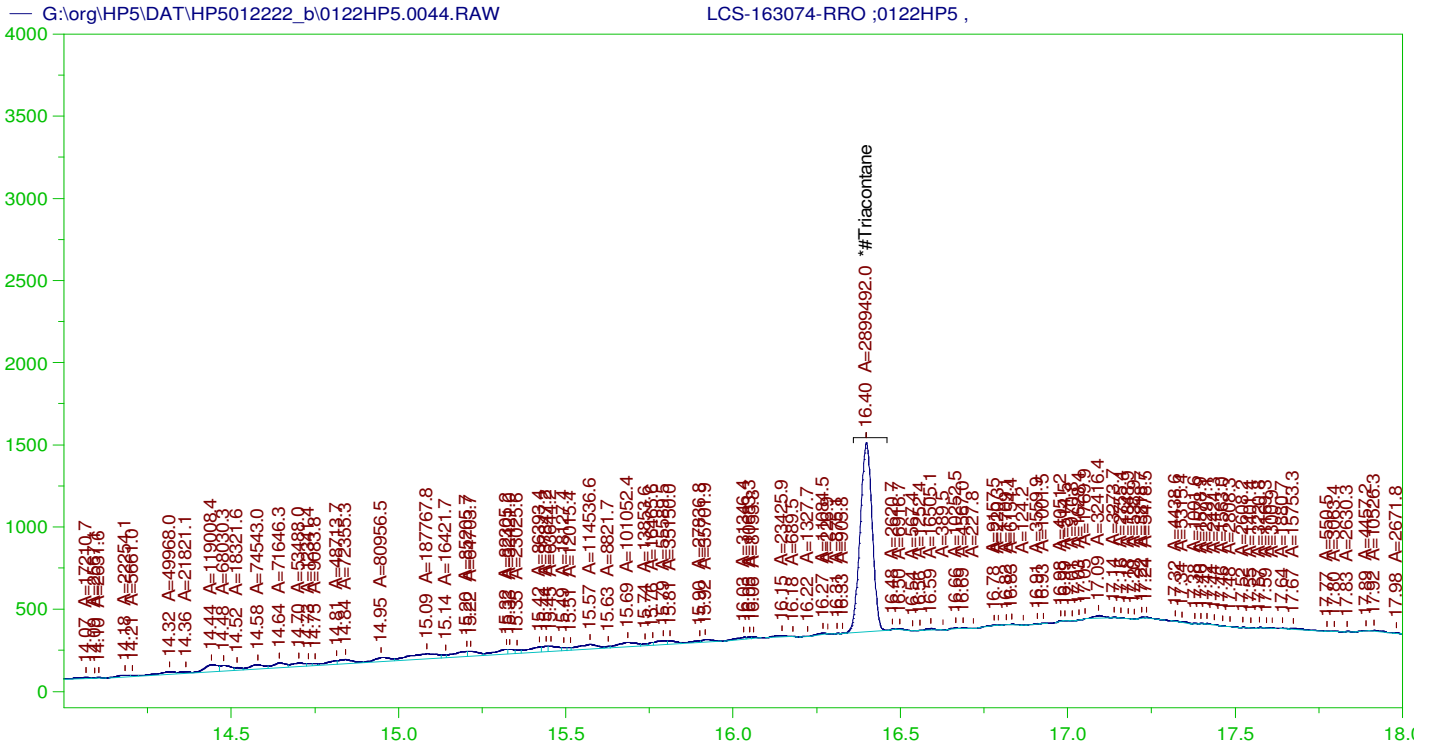
Sample Name: LCS-163074-RRO ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0044.RAW  
 Date & Time Acquired: 1/23/2022 4:52:48 PM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.398	.5	.183	36.65

RRO TEH(Oil Range) Area:1.3197E+08 RRO TEH(Oil Range) AMOUNT: 4.99422

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

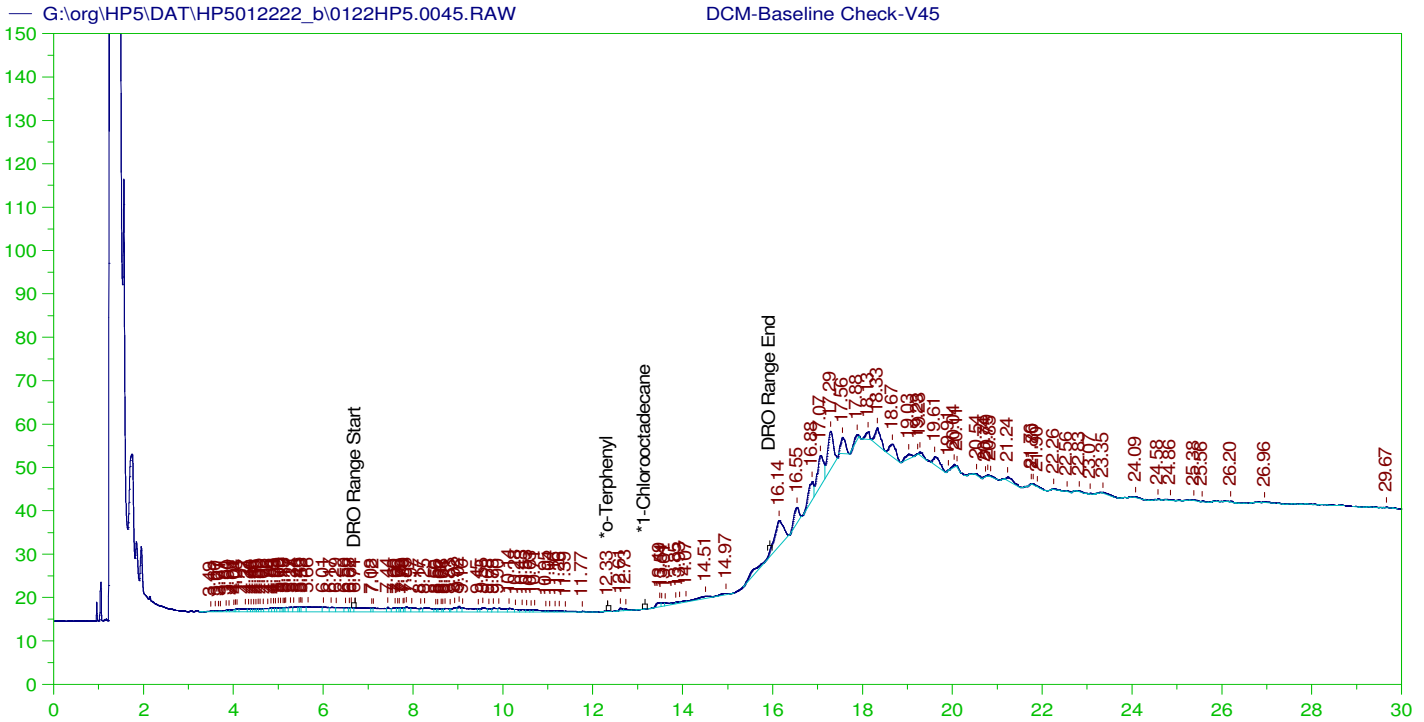
Sample Name: LCS-163074-RRO ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0044.RAW  
 Date & Time Acquired: 1/23/2022 4:52:48 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.398	.5	.098	19.57

RRO Area:2881369 RRO AMOUNT: 0.1090413





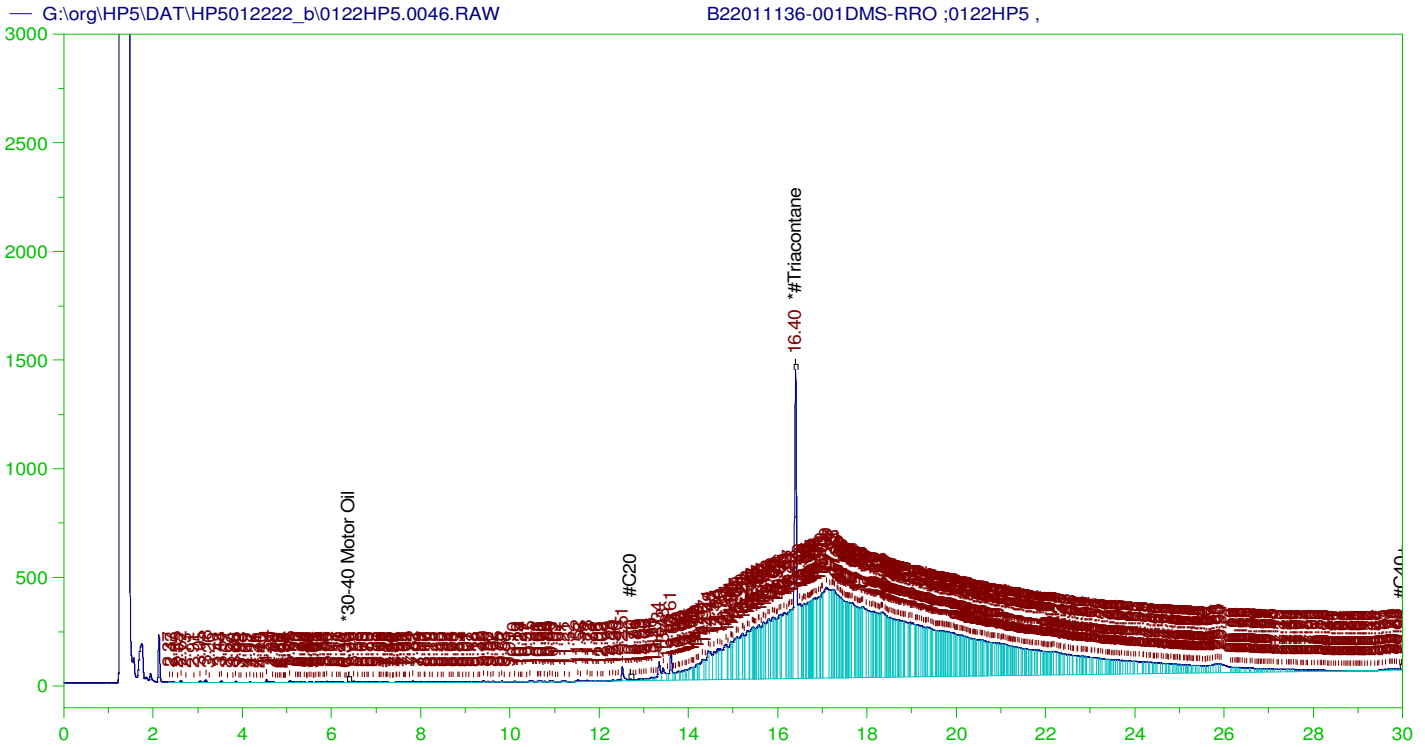
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V45  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0045.RAW  
 Date & Time Acquired: 1/23/2022 5:35:47 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.326	200.	.027	.01
*1-Chlorooctadecane	29.838	200.	.	.

DRO Area: 247334.5 DRO Amount: 7.569449  
 TEH Area: 930788.8 TEH Amount: 28.48595



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

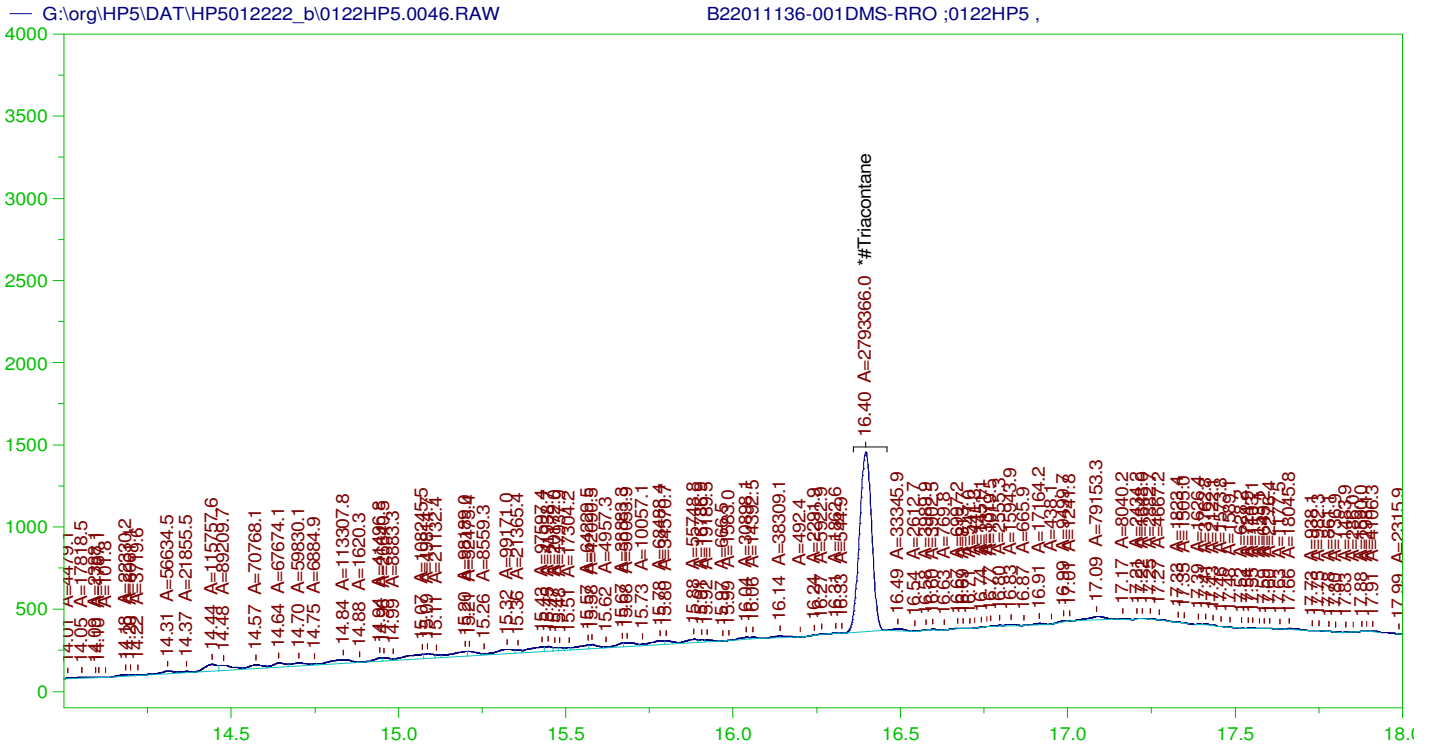
Sample Name: B22011136-001DMS-RRO ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0046.RAW  
 Date & Time Acquired: 1/23/2022 6:18:45 PM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.396	.5	.173	34.54

~~RRO~~ TEH(Oil Range) Area:1.262462E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4.777609

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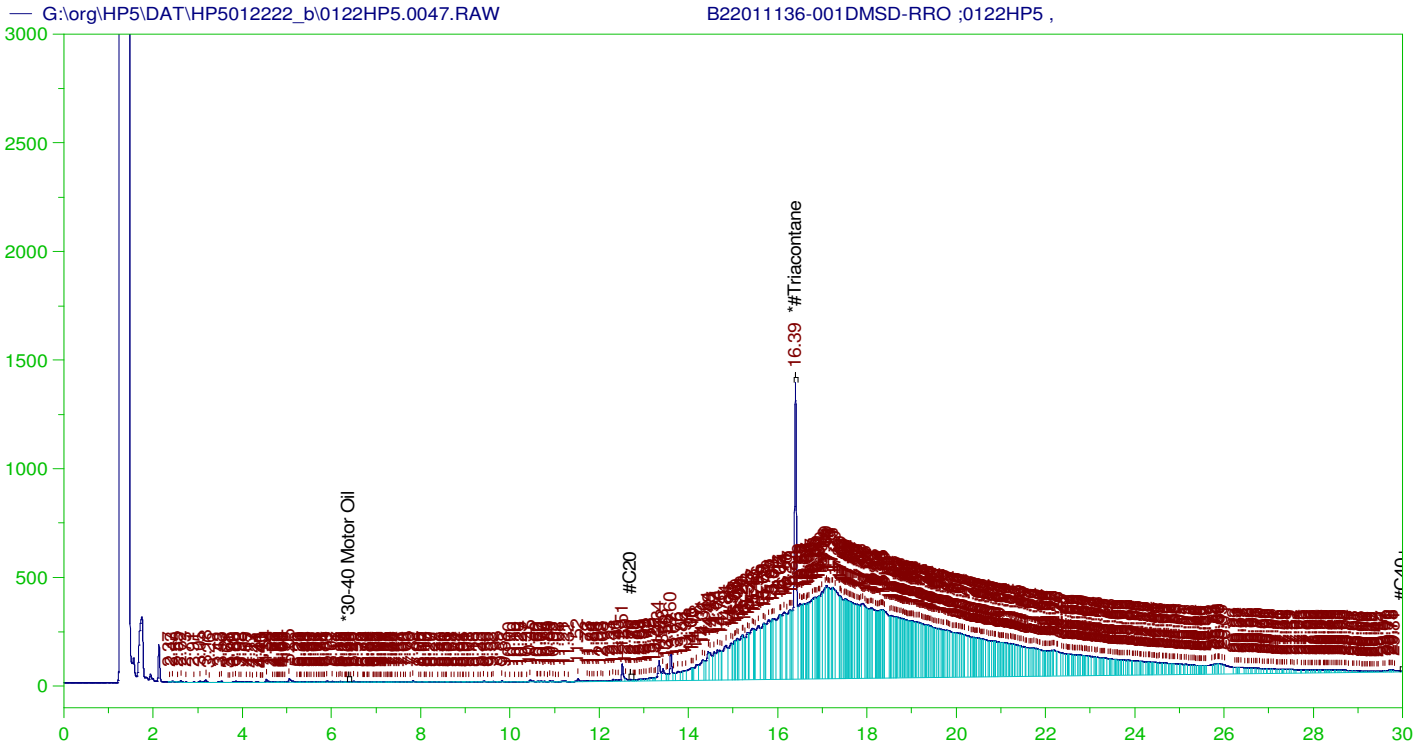
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011136-001DMS-RRO ;0122HP5 ,  
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 Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.396	.5	.094	18.85 -

RRO Area:3150566 RRO AMOUNT: 0.1192287



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

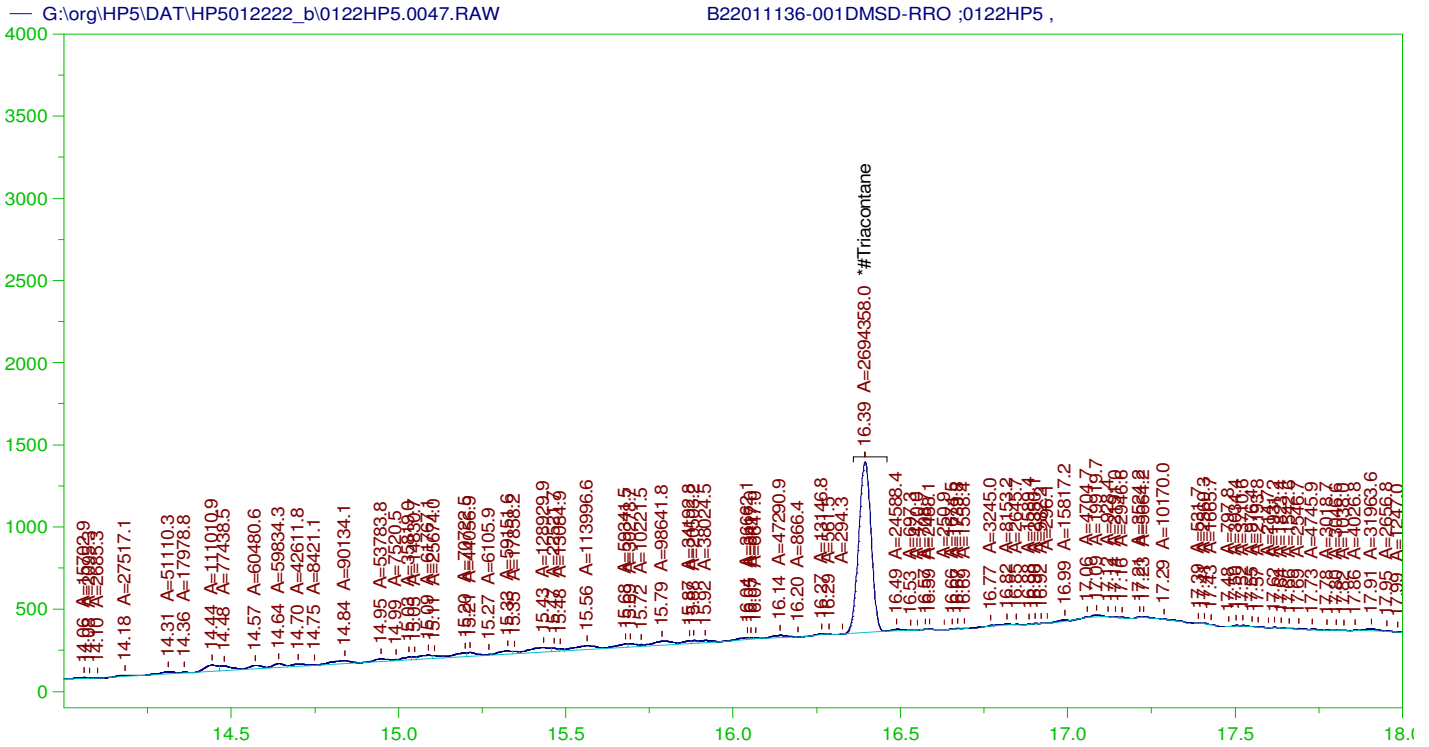
Sample Name: B22011136-001DMSD-RRO ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0047.RAW  
 Date & Time Acquired: 1/23/2022 7:01:41 PM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.394	.485	.166	34.15	-

~~RRO~~ TEH(Oil Range) Area:1.325775E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4.871076

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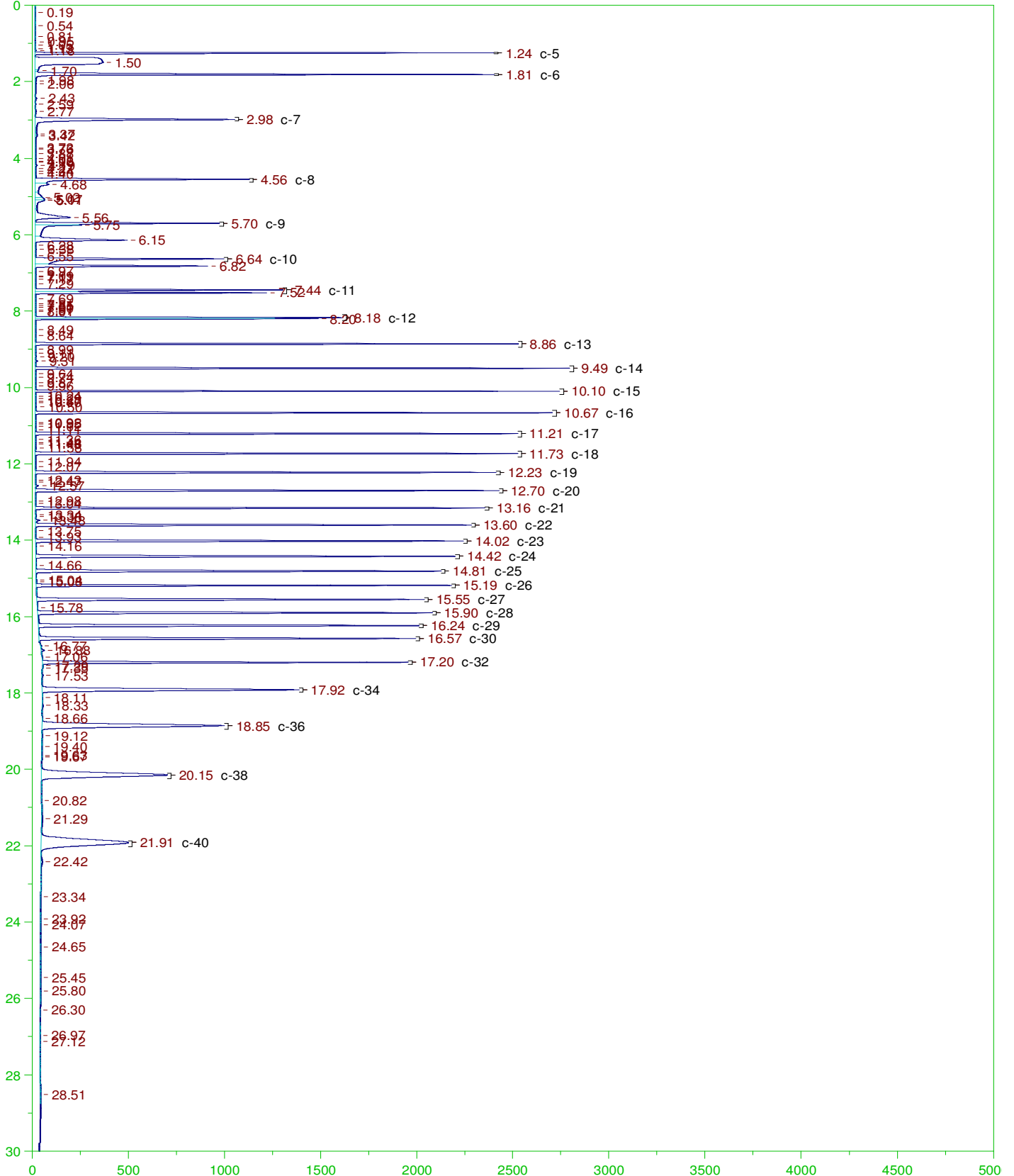
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

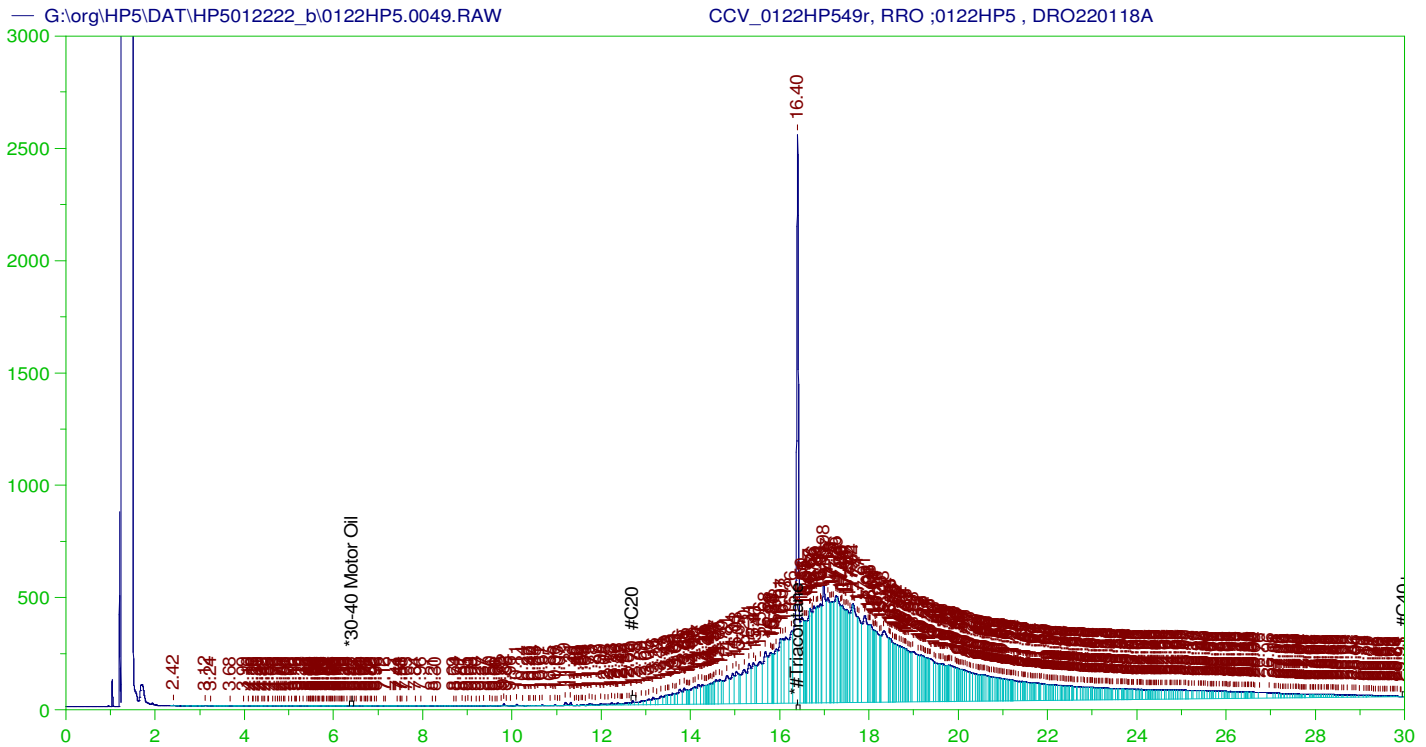
Sample Name: B22011136-001DMSD-RRO ;0122HP5 ,  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0047.RAW  
 Date & Time Acquired: 1/23/2022 7:01:41 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.394	.485	.088	18.18

RRO Area:2774162 RRO AMOUNT: 0.1019264





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP549r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0049.RAW  
 Date & Time Acquired: 1/23/2022 8:27:34 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.397	500.	305.407	61.08	-

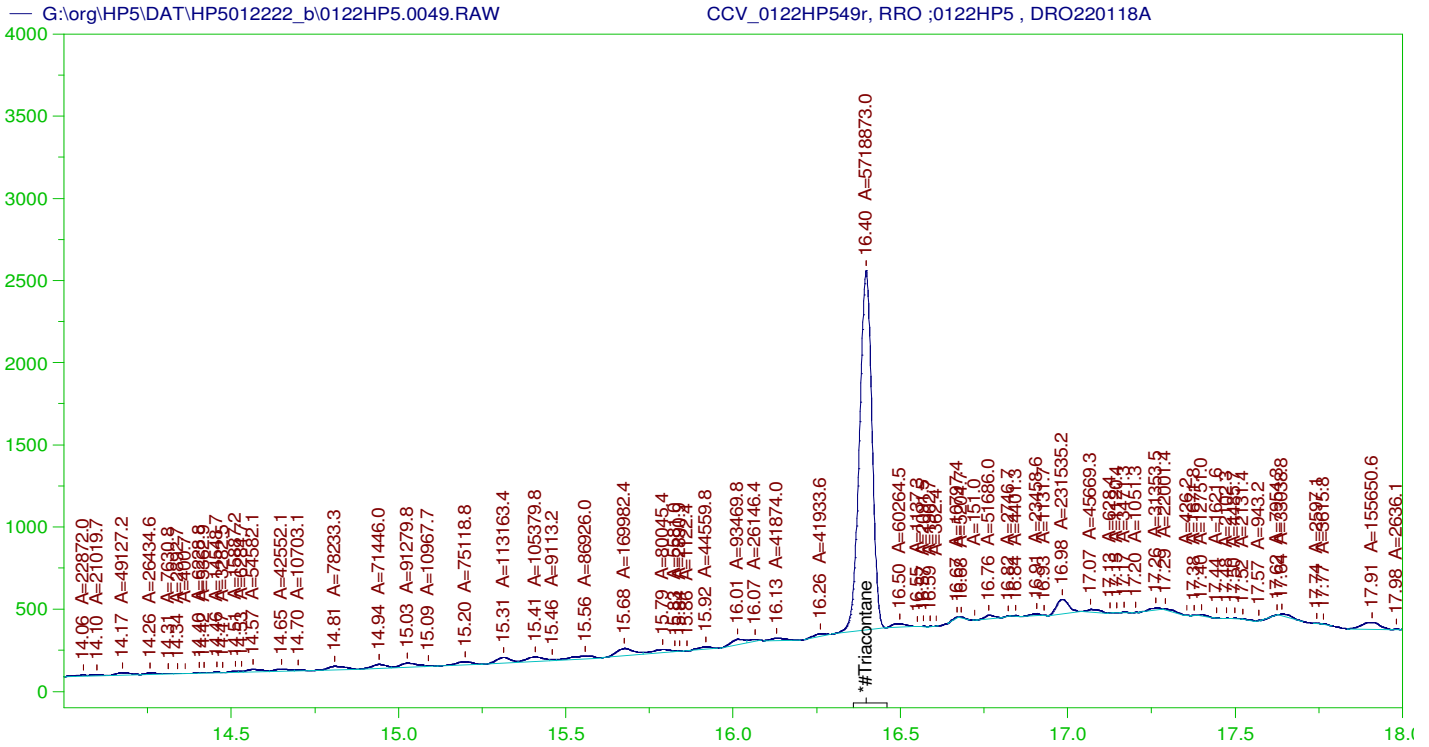
RRO TEH(Oil Range) Area:1.174424E+08 RRO TEH(Oil Range) AMOUNT: 4444.44

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0049.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.107	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.397	200.	305.407	152.7	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0122HP549r, RRO ;0122HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0049.RAW  
 Date & Time Acquired: 1/23/2022 8:27:34 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BB-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.67 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.397	500.	192.97	38.59	-

RRO Area:2841696 RRO AMOUNT: 107.54

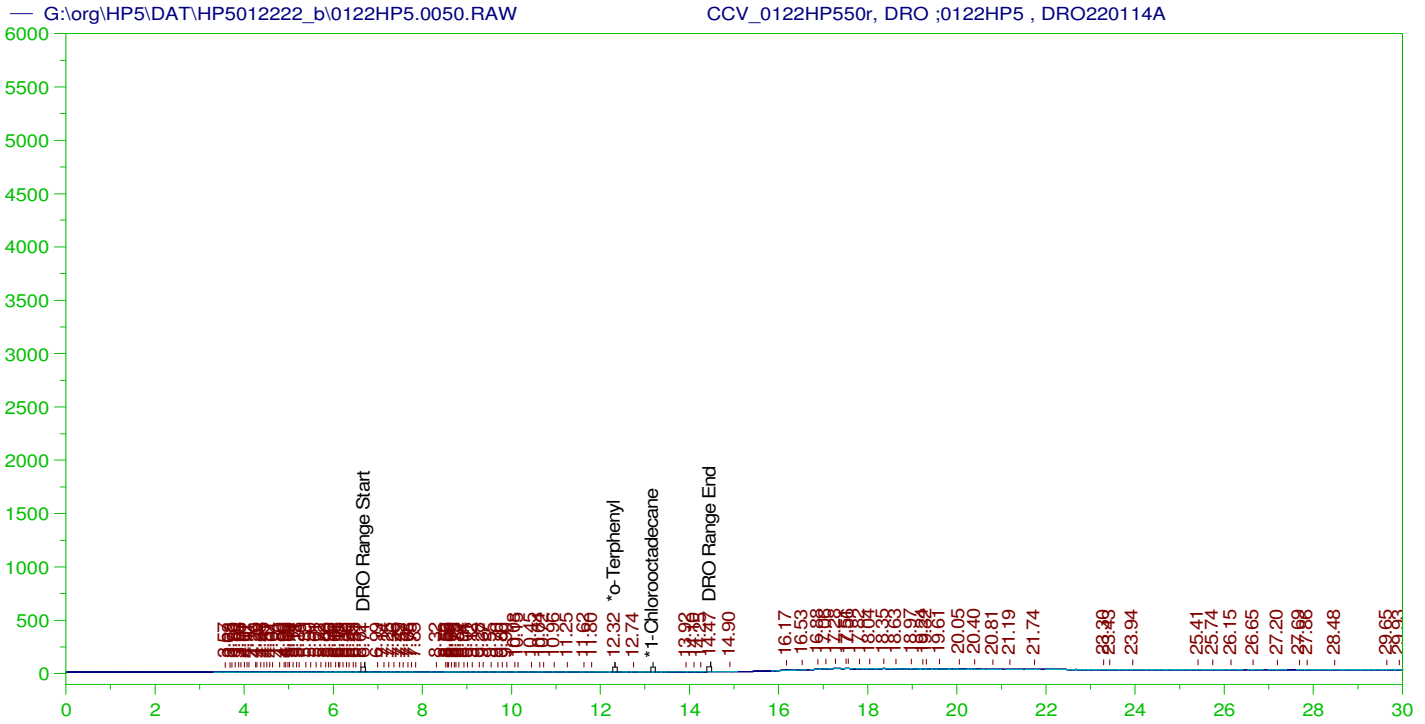
**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0049.RAW**

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.107	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.397	200.	192.97	96.48	75-125





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0122HP550r, DRO ;0122HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0050.RAW  
 Date & Time Acquired: 1/23/2022 9:09:23 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JB-L0.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

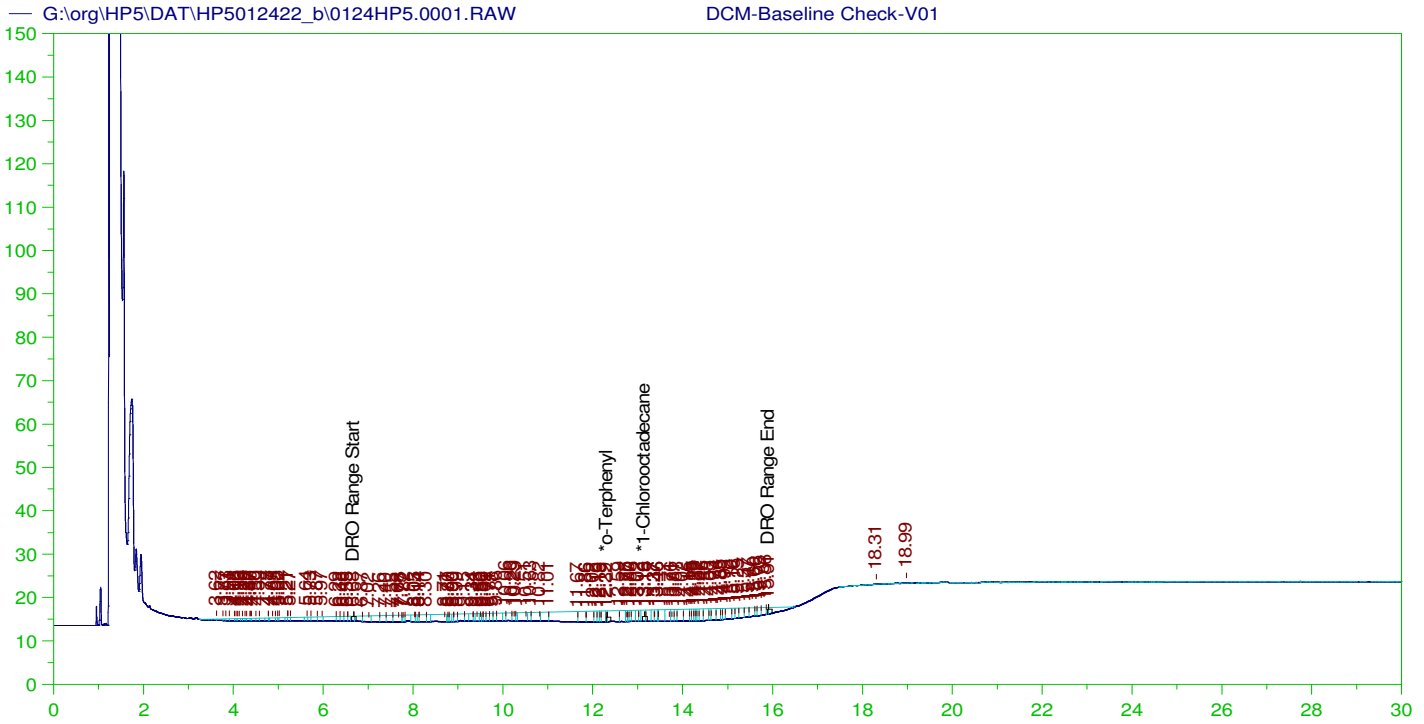
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.32	200.	.028	.01
*1-Chlorooctadecane	29.931	200.	.	.

DRO Area:188614.5 DRO Amount: 5.772377  
 TEH Area:500723.3 TEH Amount: 15.32419

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012222\_b\0122HP5.0050.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.32	200.	.028	.01	85-115
*1-Chlorooctadecane	29.931	200.	.	.	85-115



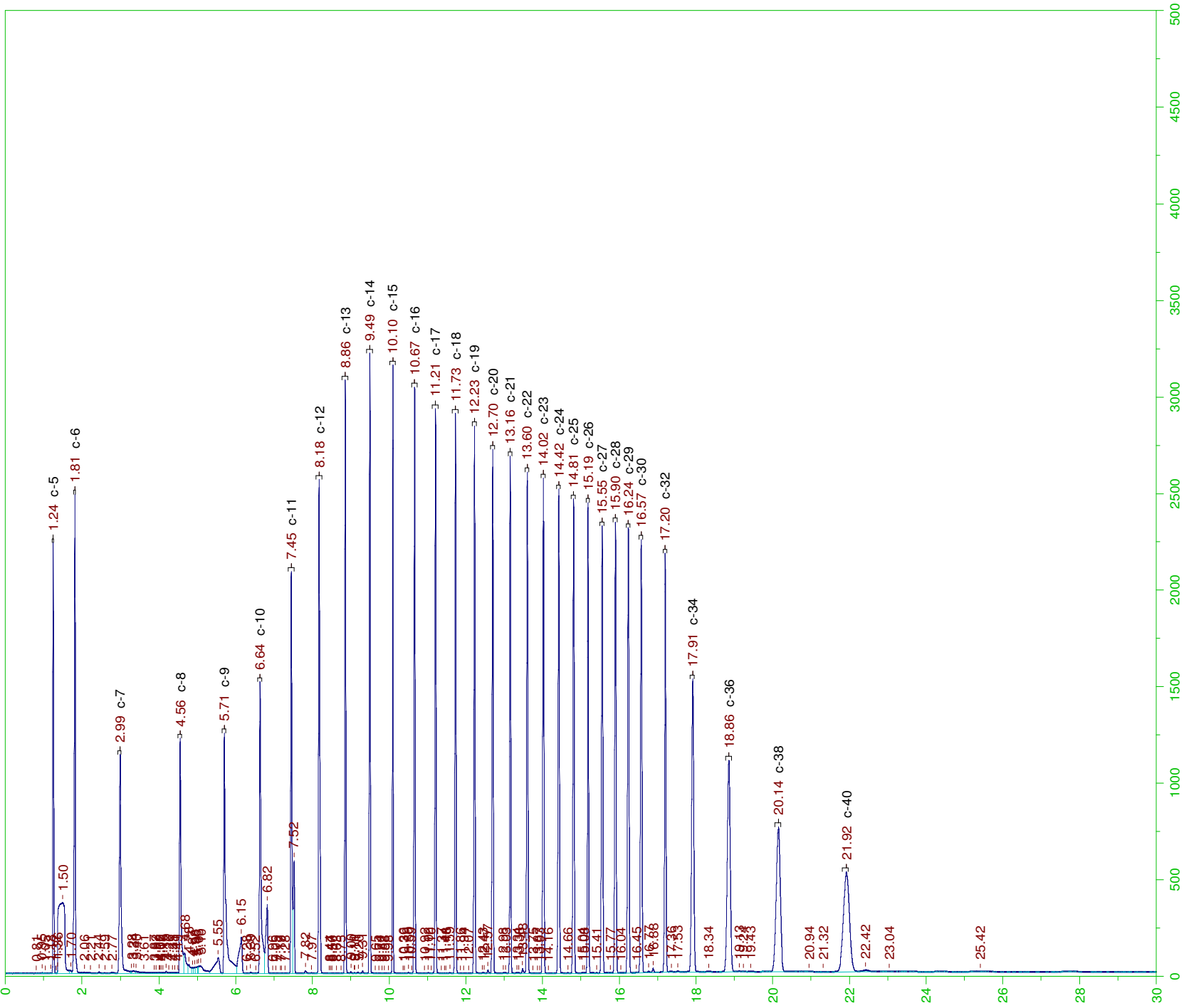
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

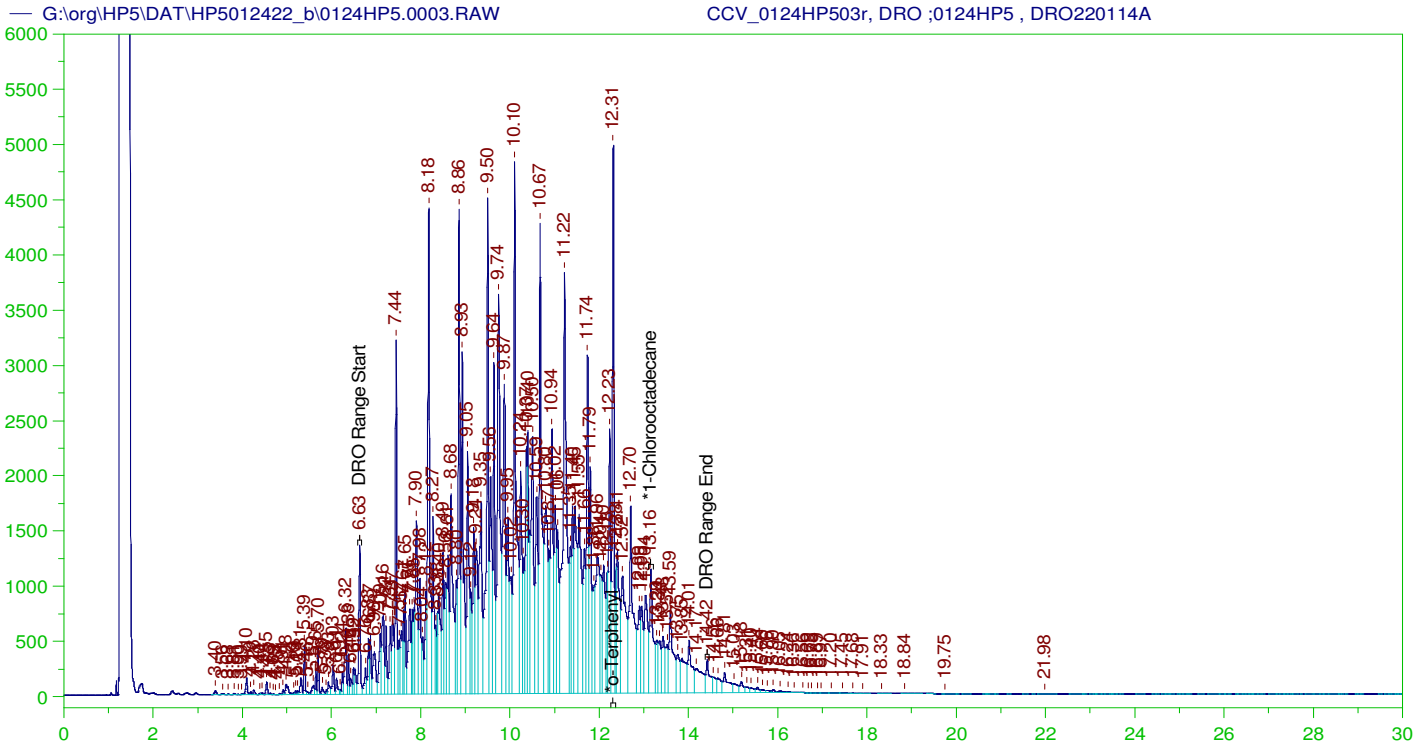
Sample Name: DCM-Baseline Check-V01  
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 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.323	200.	1.084	.54	-
*1-Chlorooctadecane	13.155	200.	.448	.22	-

DRO Area:1124437 DRO Amount: 34.41237  
 TEH Area:1260756 TEH Amount: 38.58432





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP503r, DRO ;0124HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0003.RAW  
 Date & Time Acquired: 1/24/2022 9:37:08 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.312	200.	331.191	165.6	-
*1-Chlorooctadecane	13.157	200.	154.816	77.41	-

DRO Area: 4.702654E+08 DRO Amount: 14392.05  
 TEH Area: 4.870467E+08 TEH Amount: 14905.63

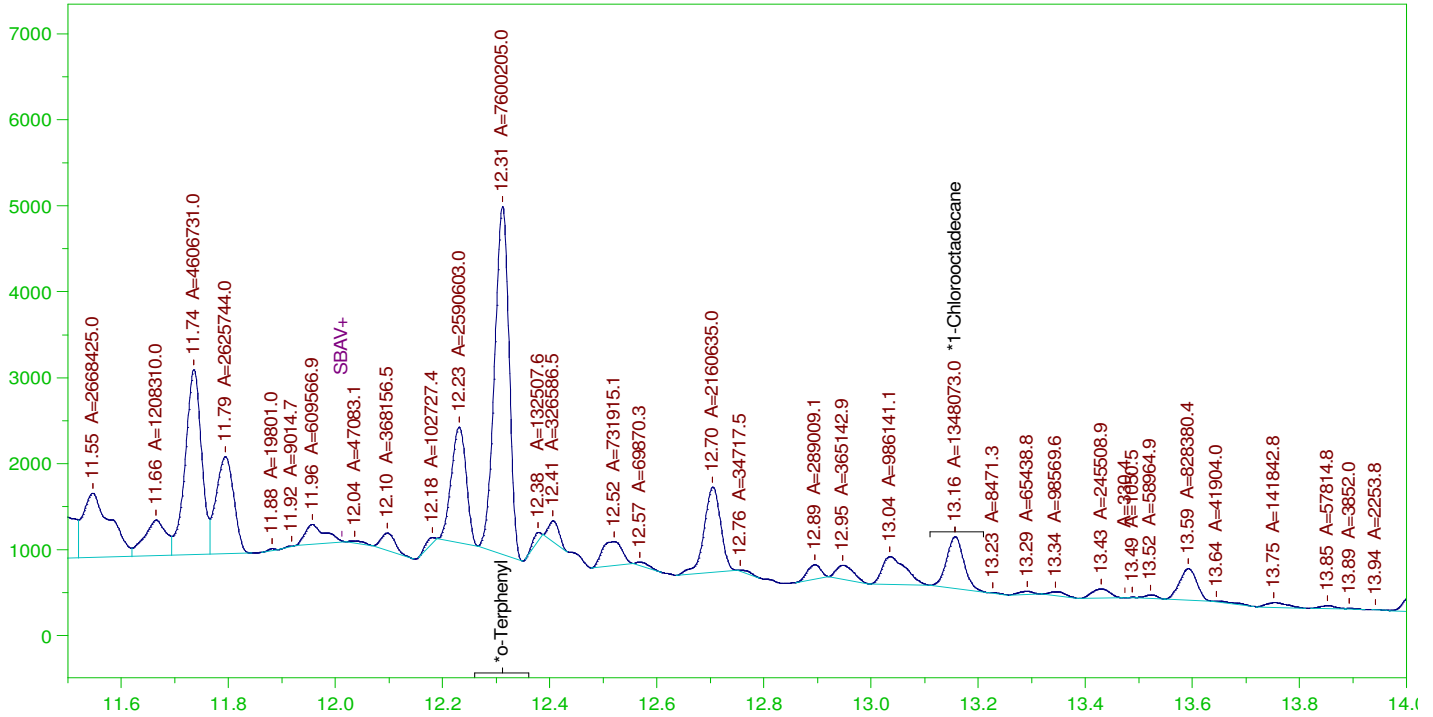
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14905.63	99.37	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.312	200.	331.191	165.6	85-115
*1-Chlorooctadecane	13.157	200.	154.816	77.41	85-115

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0003.RAW

CCV\_0124HP503r, DRO ;0124HP5 , DRO220114A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP503r, DRO ;0124HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0003.RAW  
 Date & Time Acquired: 1/24/2022 9:37:08 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

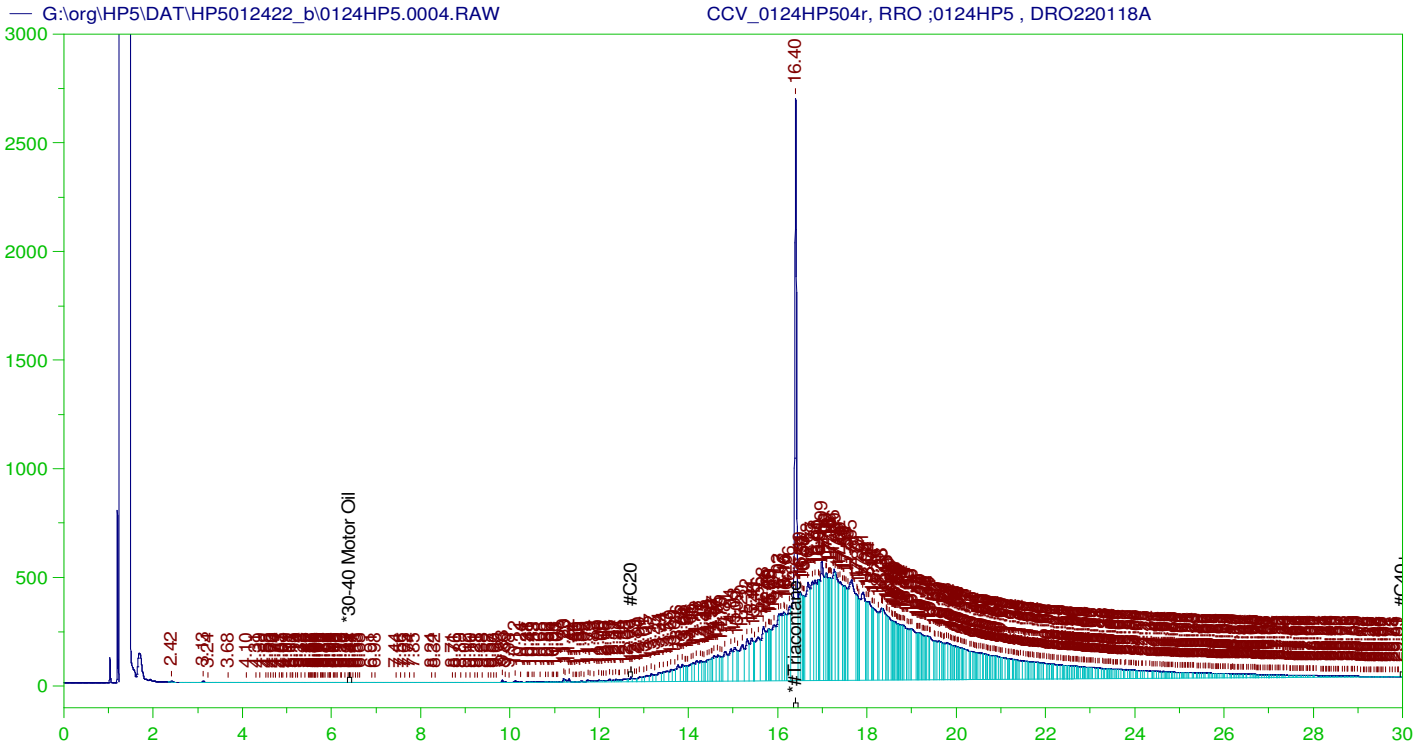
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.312	200.	206.203	103.1
*1-Chlorooctadecane	13.157	200.	36.575	18.29

DRO Area: 2.406319E+08 DRO Amount: 7364.323  
 TEH Area: 2.512761E+08 TEH Amount: 7690.08

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7690.08	51.27	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.312	200.	206.203	103.1	85-115
*1-Chlorooctadecane	13.157	200.	36.575	18.29	85-115



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP504r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0004.RAW  
 Date & Time Acquired: 1/24/2022 10:43:02 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.4	500.	323.626	64.73	-

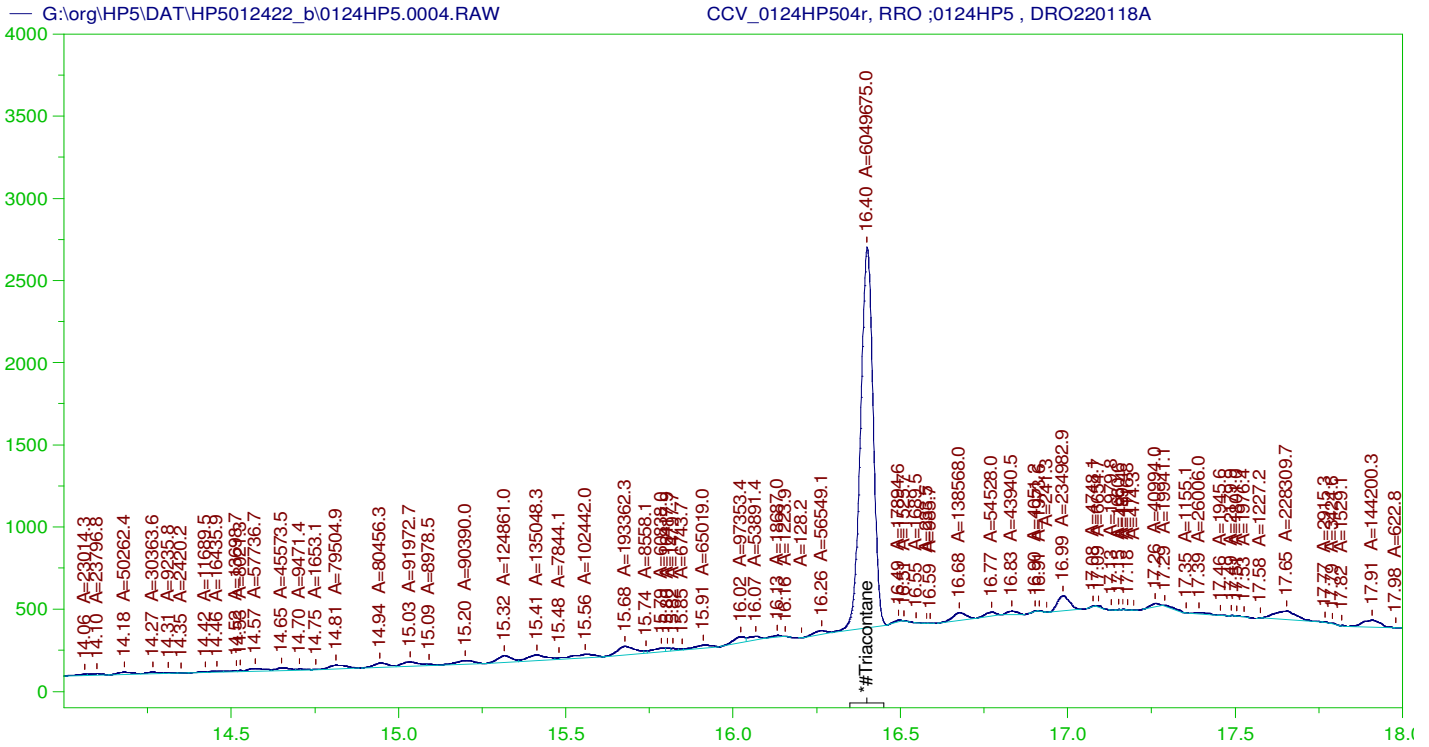
~~RRO~~ TEH(Oil Range) Area:1.196865E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4529.366

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0004.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.033	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.4	200.	323.626	161.81	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP504r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0004.RAW  
 Date & Time Acquired: 1/24/2022 10:43:02 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

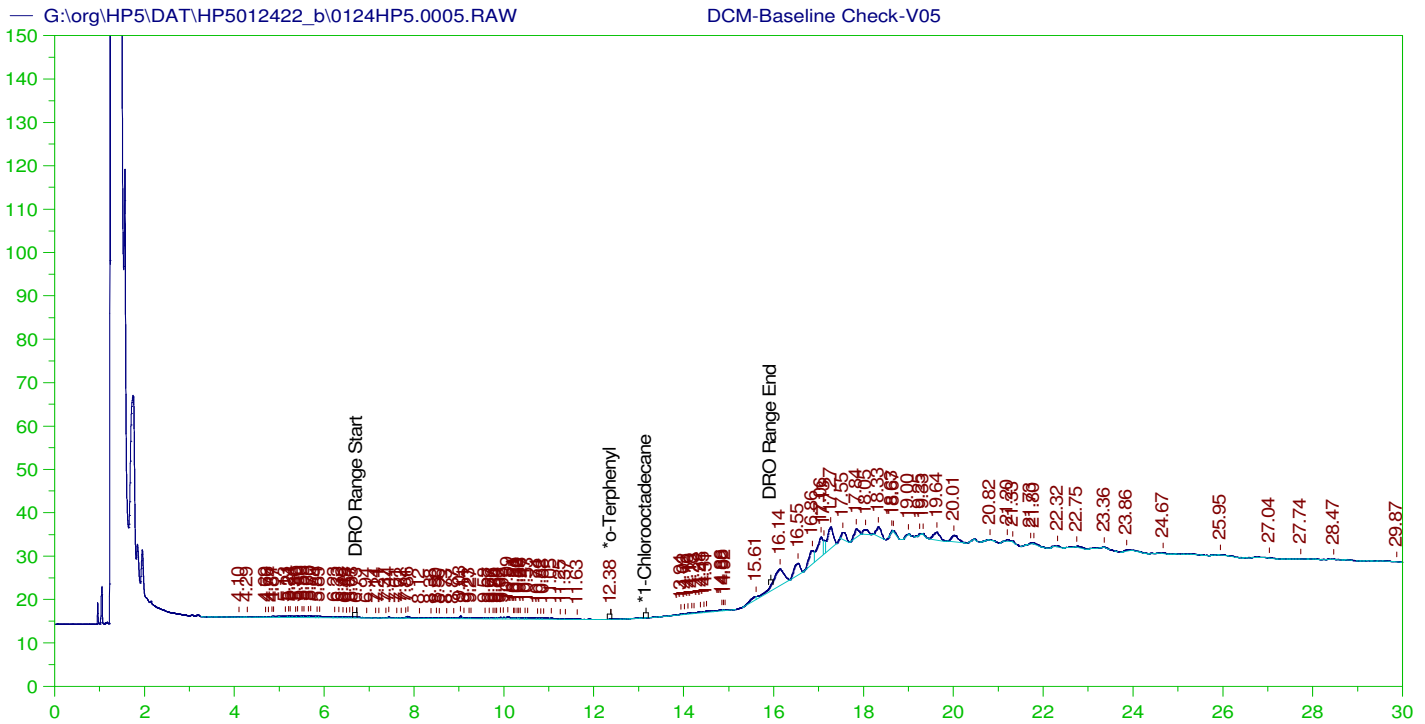
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.4	500.	204.132	40.83	-

RRO Area:3180140 RRO AMOUNT: 120.3479

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0004.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.033	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.4	200.	204.132	102.07	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V05  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0005.RAW  
 Date & Time Acquired: 1/24/2022 11:25:24 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

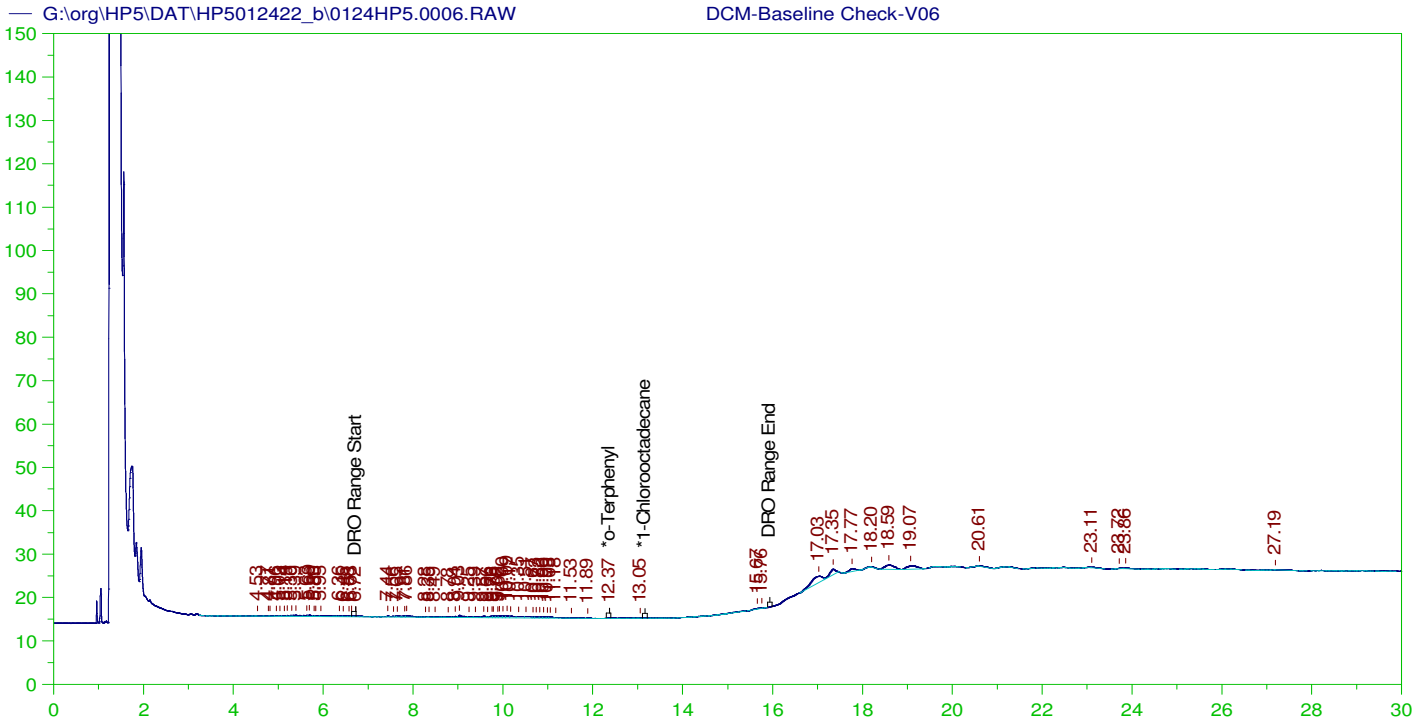
Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.382	200.	.03	.01
*1-Chlorooctadecane	29.988	200.	.	.

DRO Area: 84608.67 DRO Amount: 2.589372  
 TEH Area: 468487 TEH Amount: 14.33762





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V06  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0006.RAW  
 Date & Time Acquired: 1/24/2022 12:08:05 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.375	200.	.028	.01
*1-Chlorooctadecane	29.764	200.	.	.

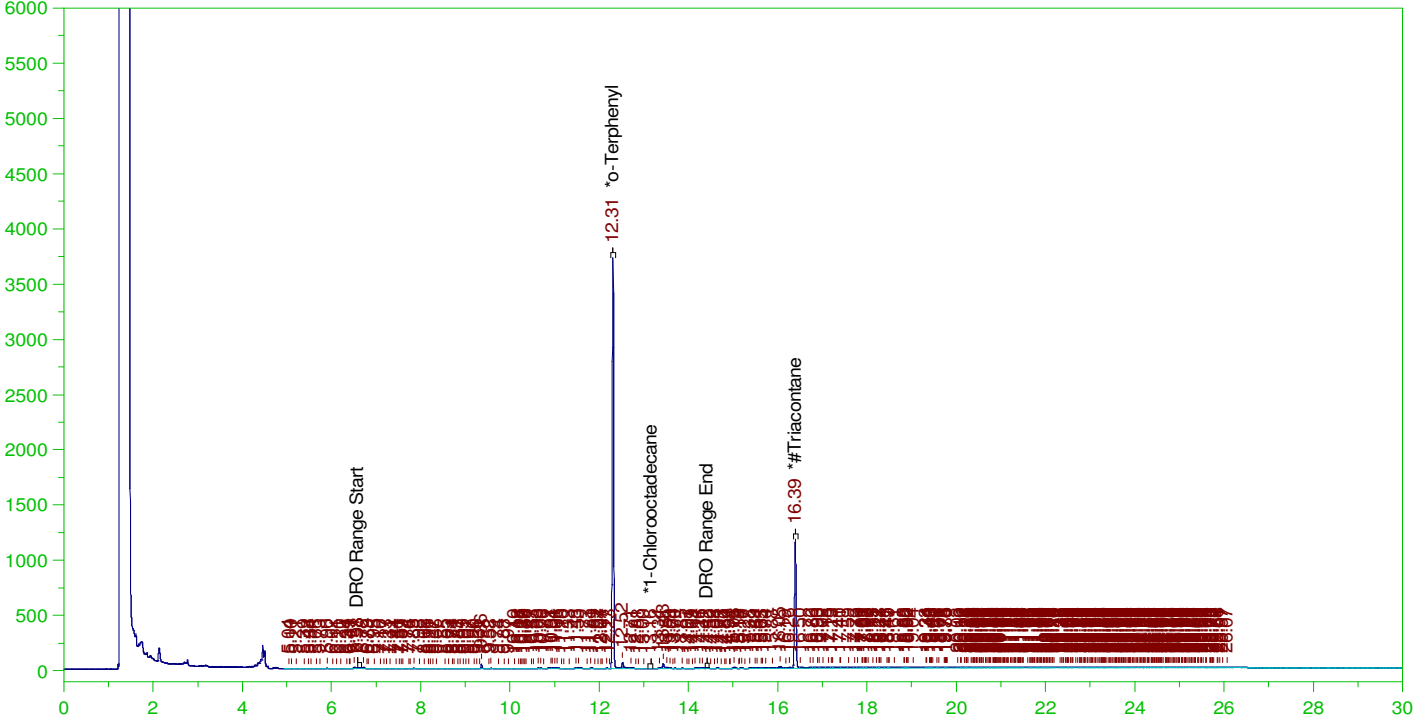
DRO Area: 62993.47 DRO Amount: 1.927858  
 TEH Area: 182321.9 TEH Amount: 5.579799

ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0007.RAW

B22011227-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011227-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0007.RAW  
Date & Time Acquired: 1/24/2022 12:50:43 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-012407-JC-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.202	.202	99.89	-
*1-Chlorooctadecane	13.164	.202	.	.08	-
*#Triacontane	16.39	.202	.106	52.62	-

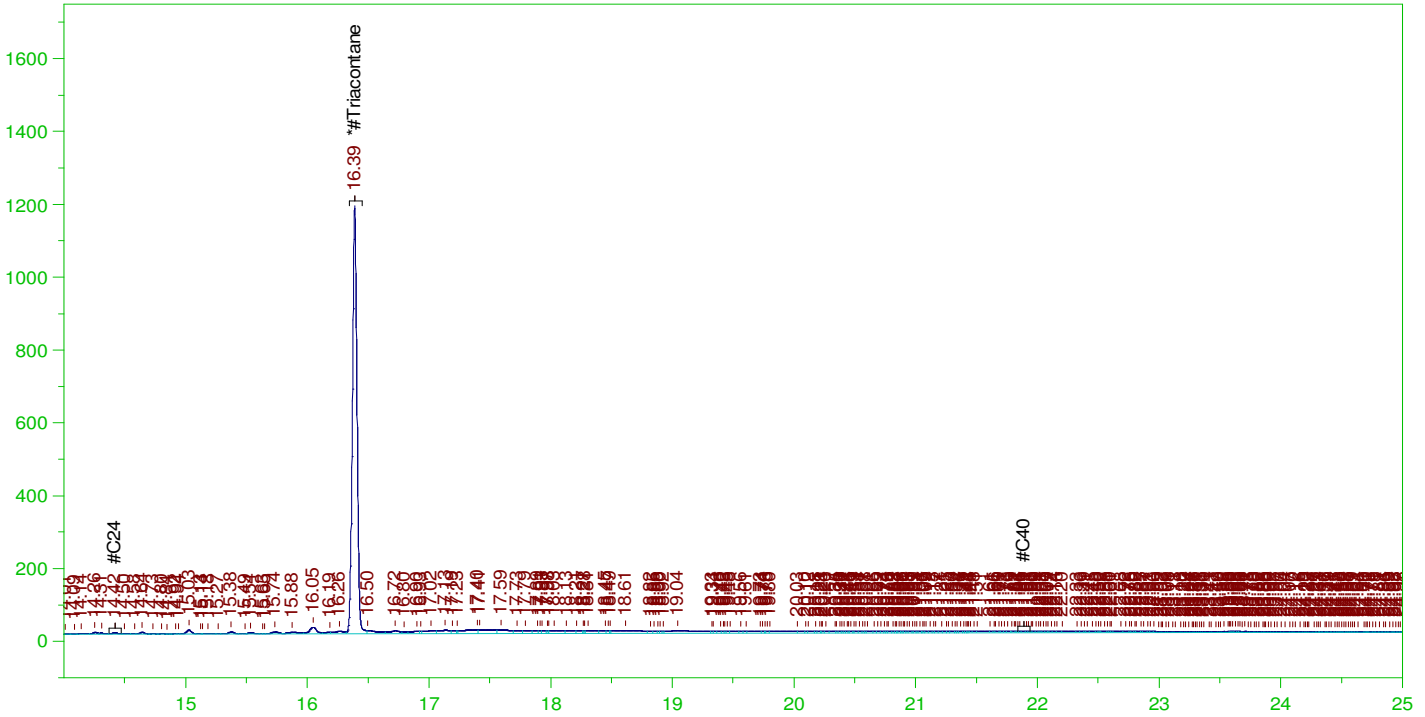
DRO Area:1141547 DRO Amount: 0.0352889  
TEH Area:4040177 TEH Amount: 0.1248949

ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0007.RAW

B22011227-001D ;0124HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011227-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0007.RAW  
Date & Time Acquired: 1/24/2022 12:50:43 PM  
Method File: G:\Org\HP5\Methods\DR\_OROS-012407-BC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.39	.505	.106	21.05

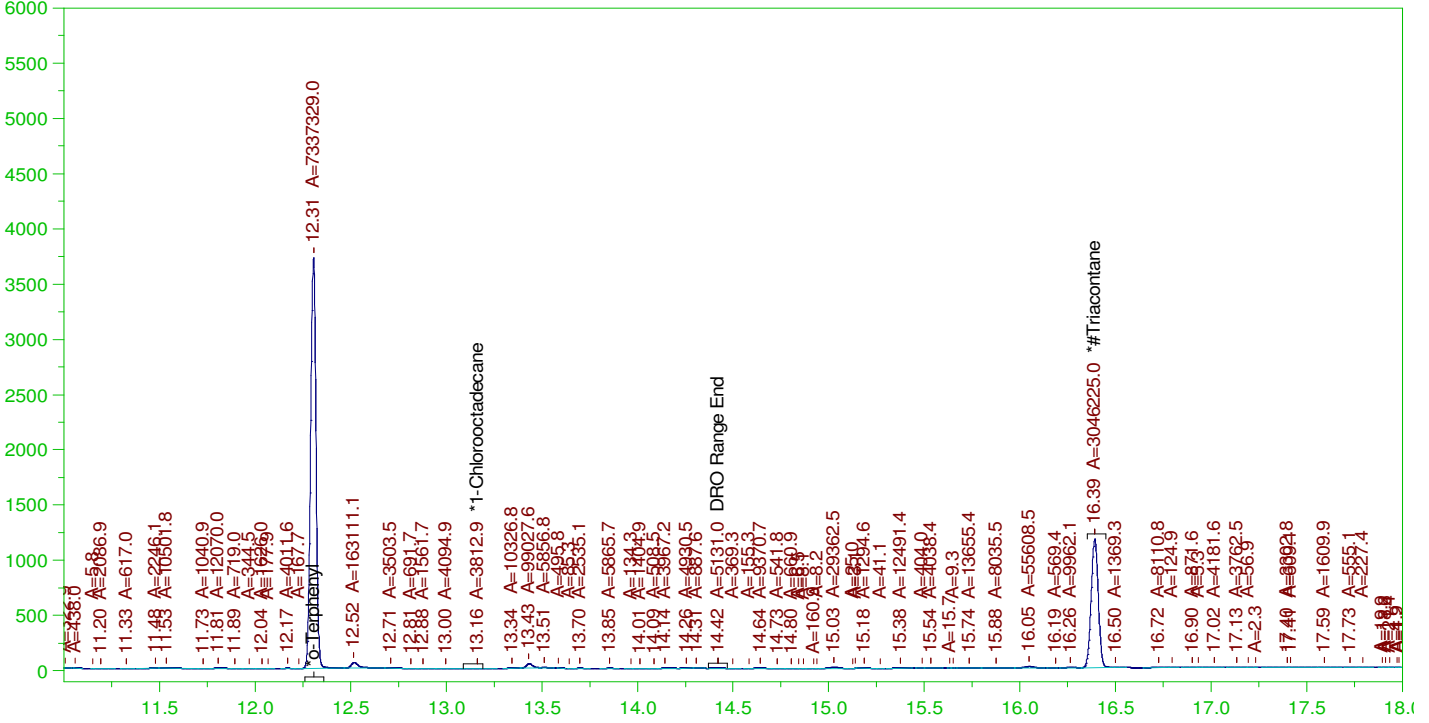
RRO Area:2343895 RRO AMOUNT: 8.959737E-02

ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0007.RAW

B22011227-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011227-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0007.RAW  
Date & Time Acquired: 1/24/2022 12:50:43 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.202	.201	99.54	-
*1-Chlorooctadecane	13.164	.202	.	.05	-
*#Triacontane	16.39	.202	.104	51.39	-

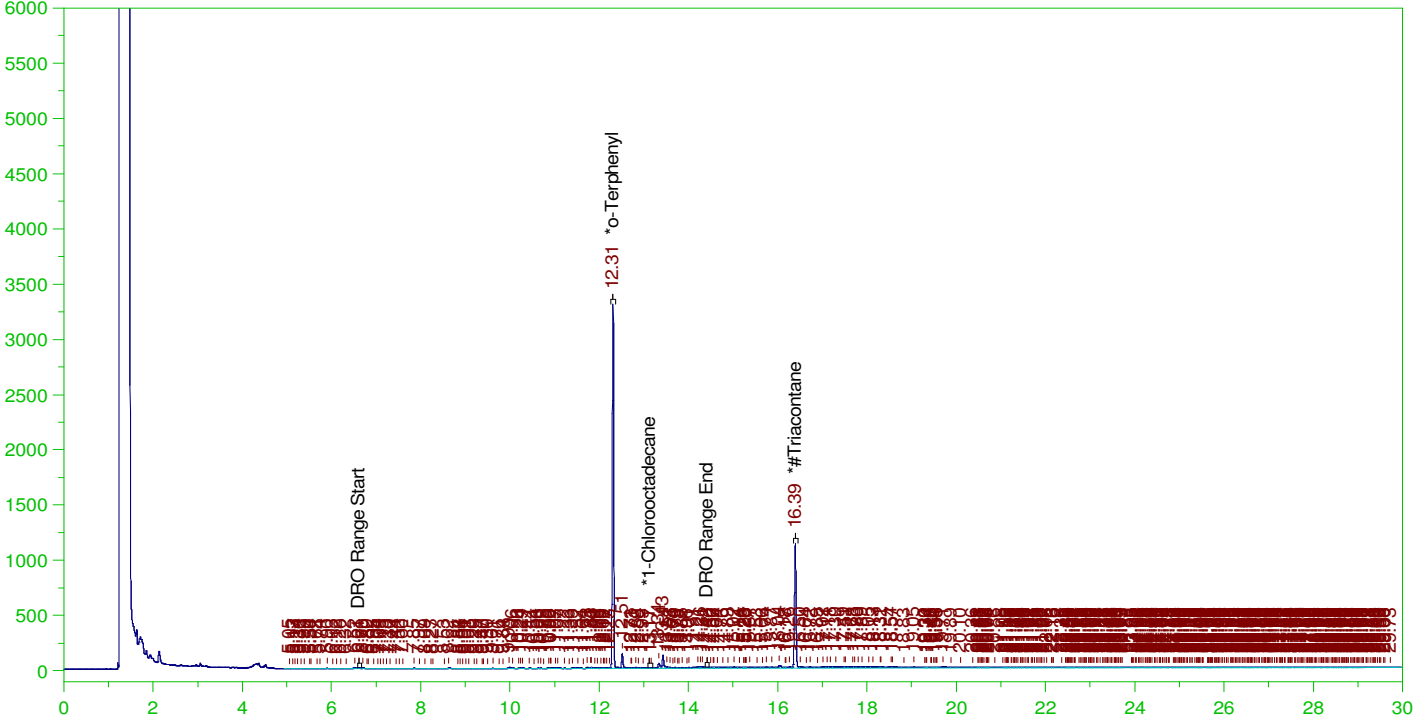
DRO Area:707894.6 DRO Amount: 2.188331E-02  
TEH Area:2638916 TEH Amount: 8.157741E-02

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0008.RAW

B22011214-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011214-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0008.RAW  
Date & Time Acquired: 1/24/2022 1:33:13 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-JC-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	.2	.177	88.55
*1-Chlorooctadecane	13.114	.2	.2	-
*#Triacontane	16.39	.2	.102	51.22

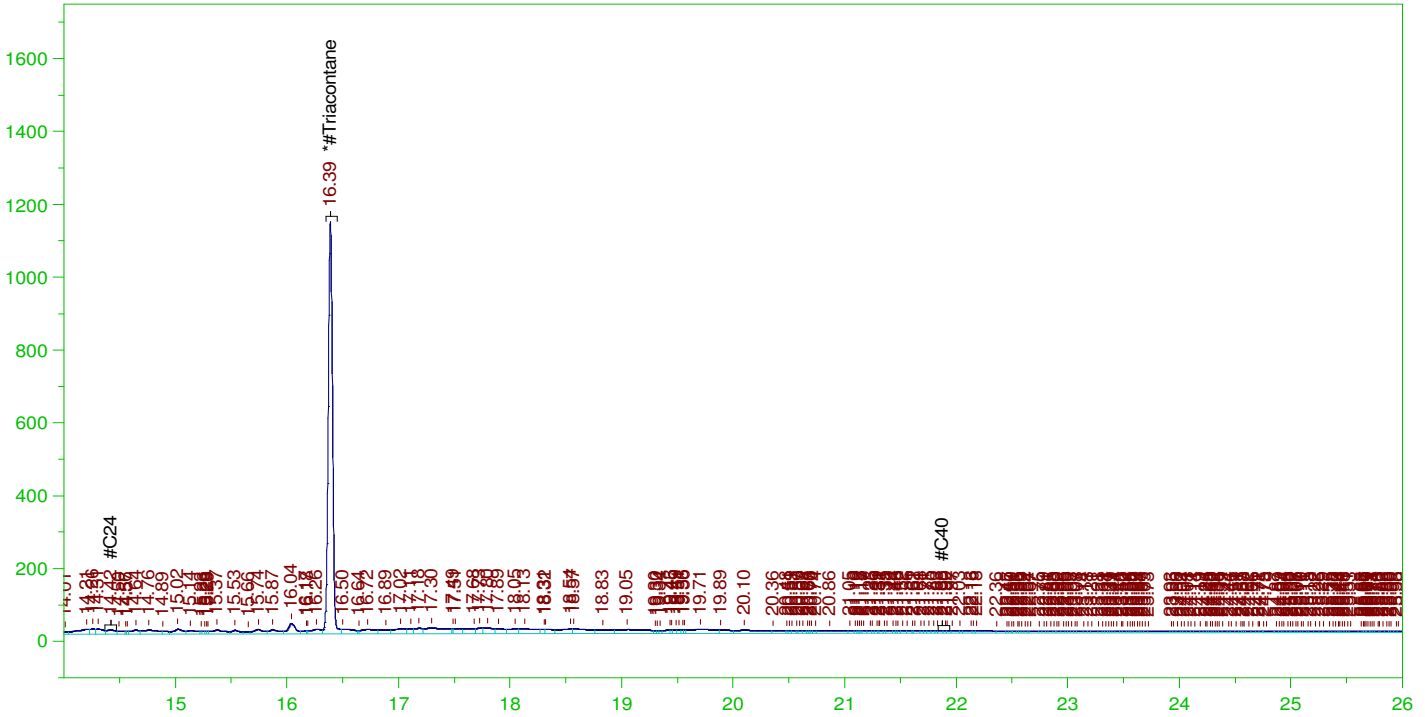
DRO Area:2202279 DRO Amount: 6.739876E-02  
TEH Area:7663518 TEH Amount: 0.2345351

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0008.RAW

B22011214-001D ;0124HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011214-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0008.RAW  
Date & Time Acquired: 1/24/2022 1:33:13 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-BC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.39	.5	.102	20.49

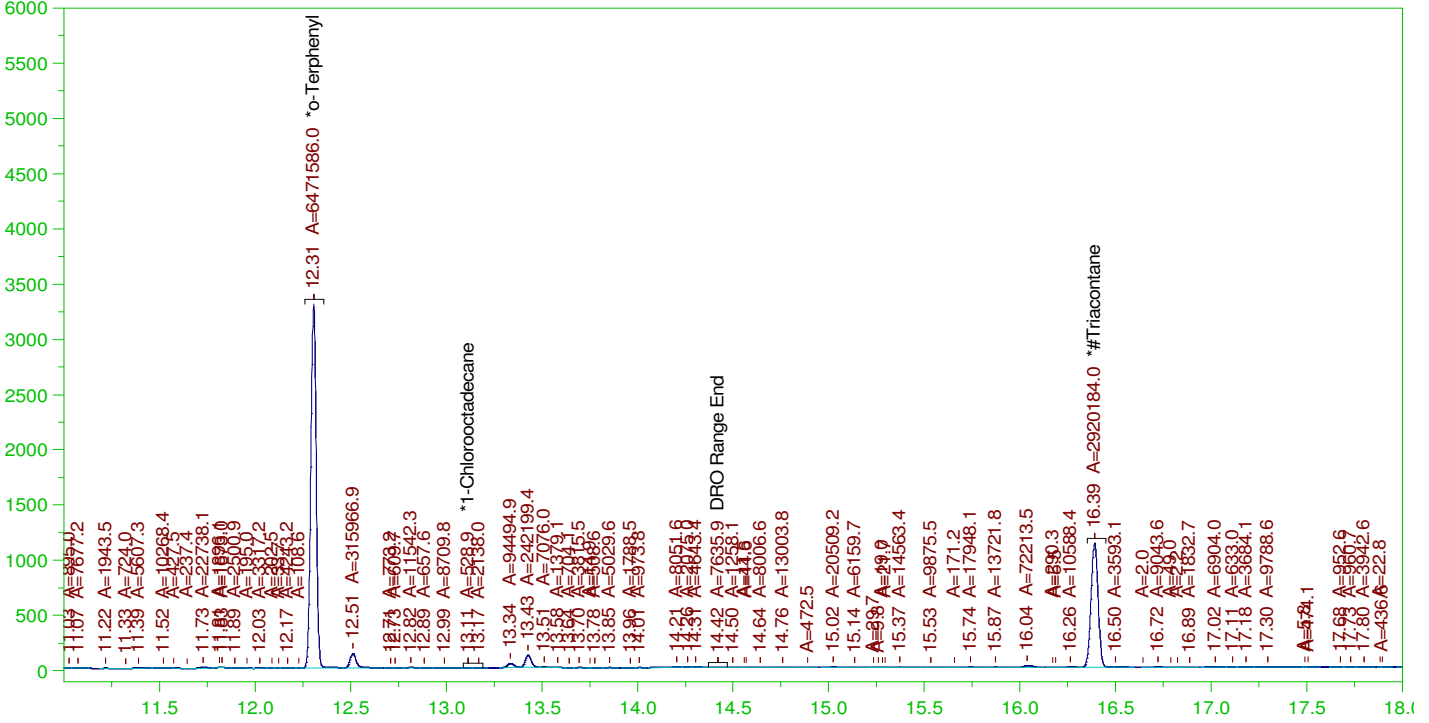
RRO Area:4178811 RRO AMOUNT: 0.1581412

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0008.RAW

B22011214-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011214-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0008.RAW  
Date & Time Acquired: 1/24/2022 1:33:13 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	.2	.176	87.79
*1-Chlorooctadecane	13.114	.2	.01	-
*#Triacontane	16.39	.2	.099	49.27

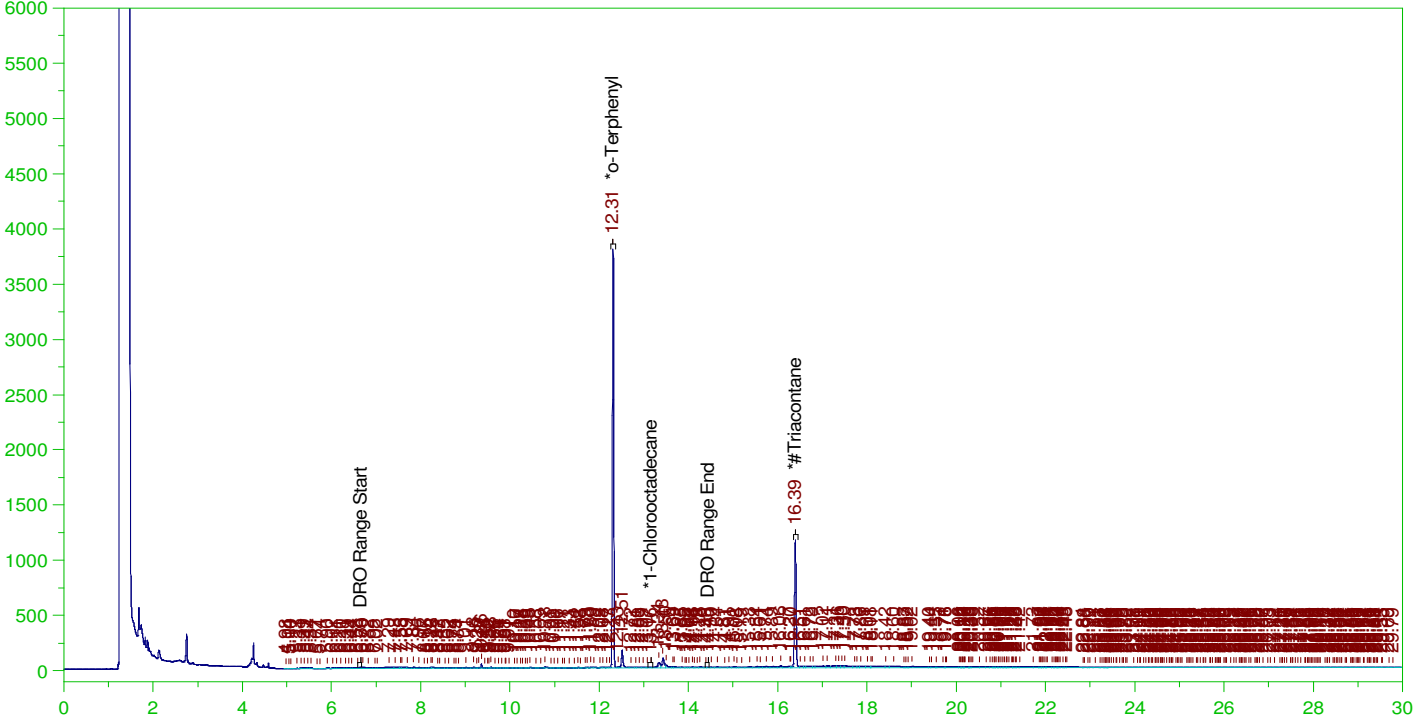
DRO Area:1077470 DRO Amount: 3.297499E-02  
TEH Area:2158743 TEH Amount: 6.606639E-02

ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0009.RAW

B22011228-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011228-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0009.RAW  
Date & Time Acquired: 1/24/2022 2:15:47 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-012409-JC-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.196	.191	97.43	-
*1-Chlorooctadecane	13.162	.196	.001	.69	-
*#Triacontane	16.39	.196	.105	53.65	-

DRO Area:3387593 DRO Amount: 0.1016414  
TEH Area:1.044978E+07 TEH Amount: 0.3135355

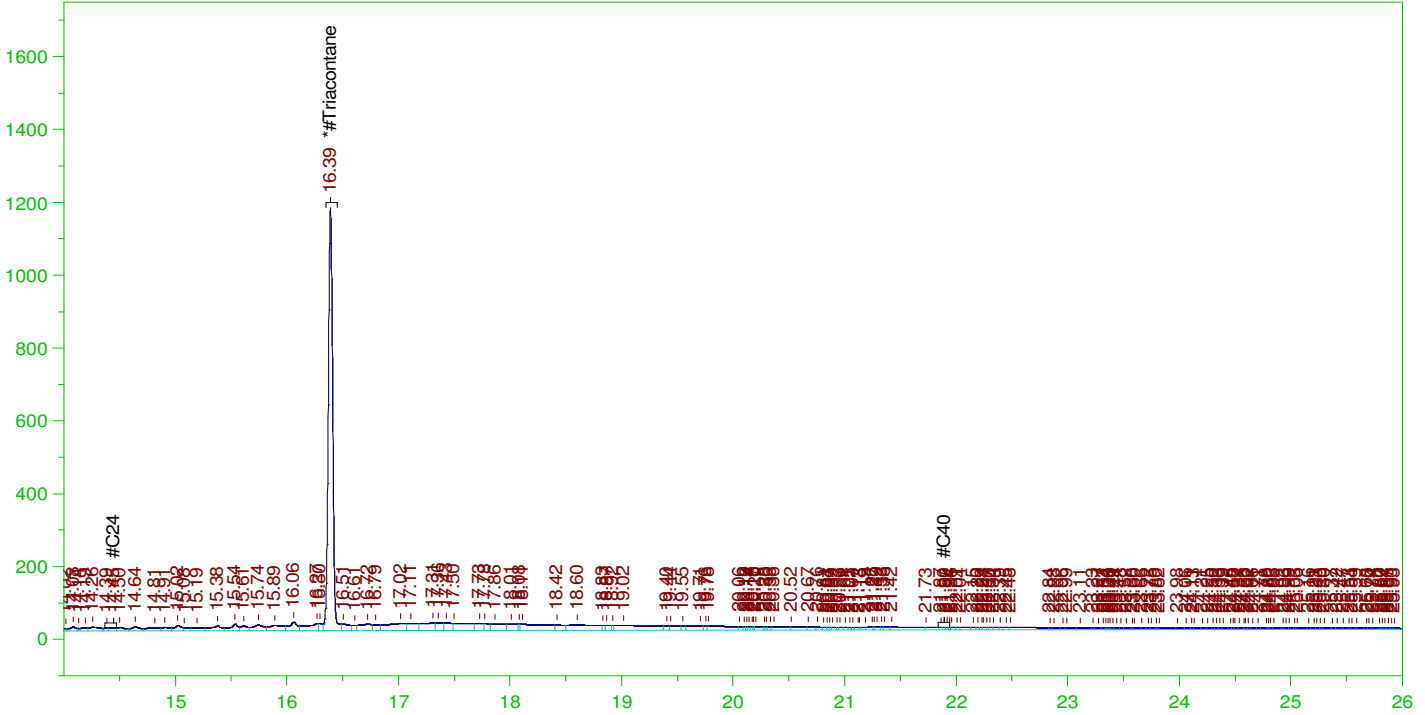


ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0009.RAW

B22011228-001D ;0124HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011228-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0009.RAW  
Date & Time Acquired: 1/24/2022 2:15:47 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-012409-BC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.39	.49	.105	21.46

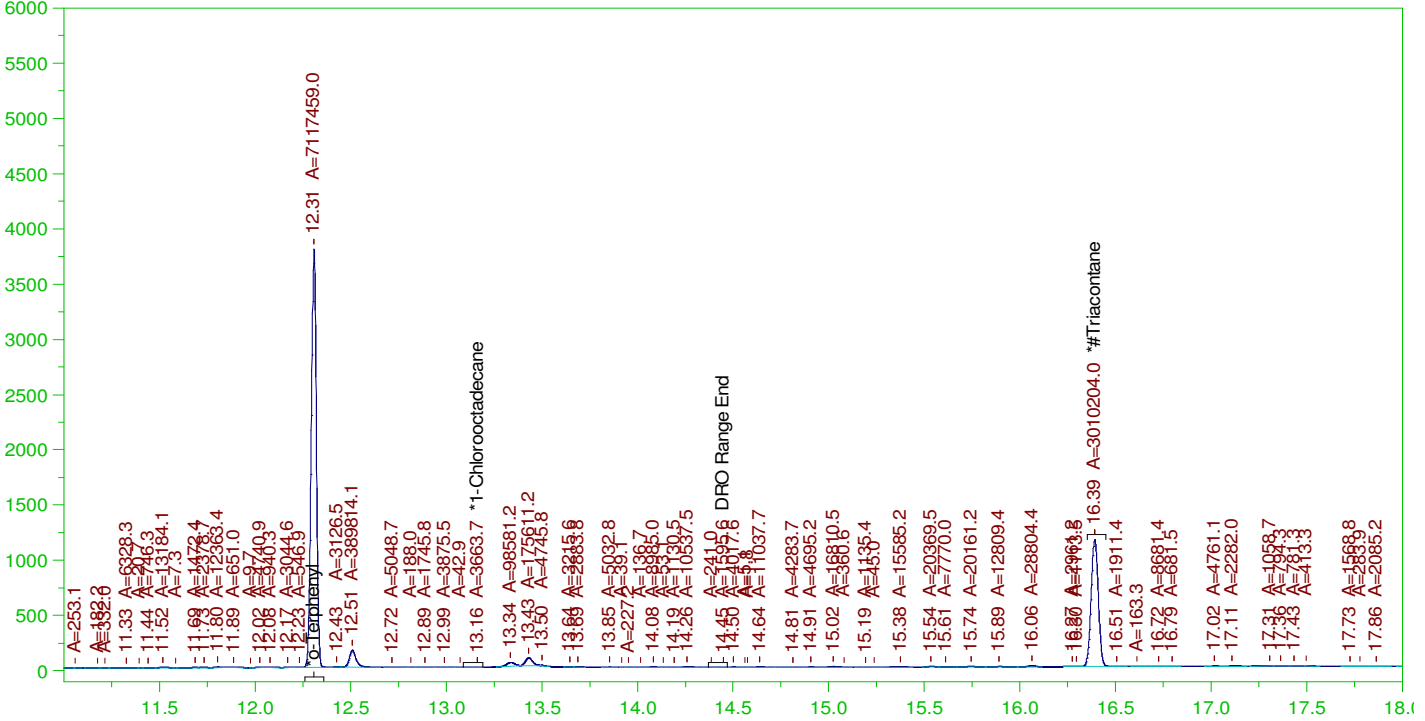
RRO Area:5487106 RRO AMOUNT: 0.2035802

ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0009.RAW

B22011228-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011228-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0009.RAW  
Date & Time Acquired: 1/24/2022 2:15:47 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.196	.189	96.55	-
*1-Chlorooctadecane	13.162	.196	.	.05	-
*#Triacontane	16.39	.196	.1	50.79	-

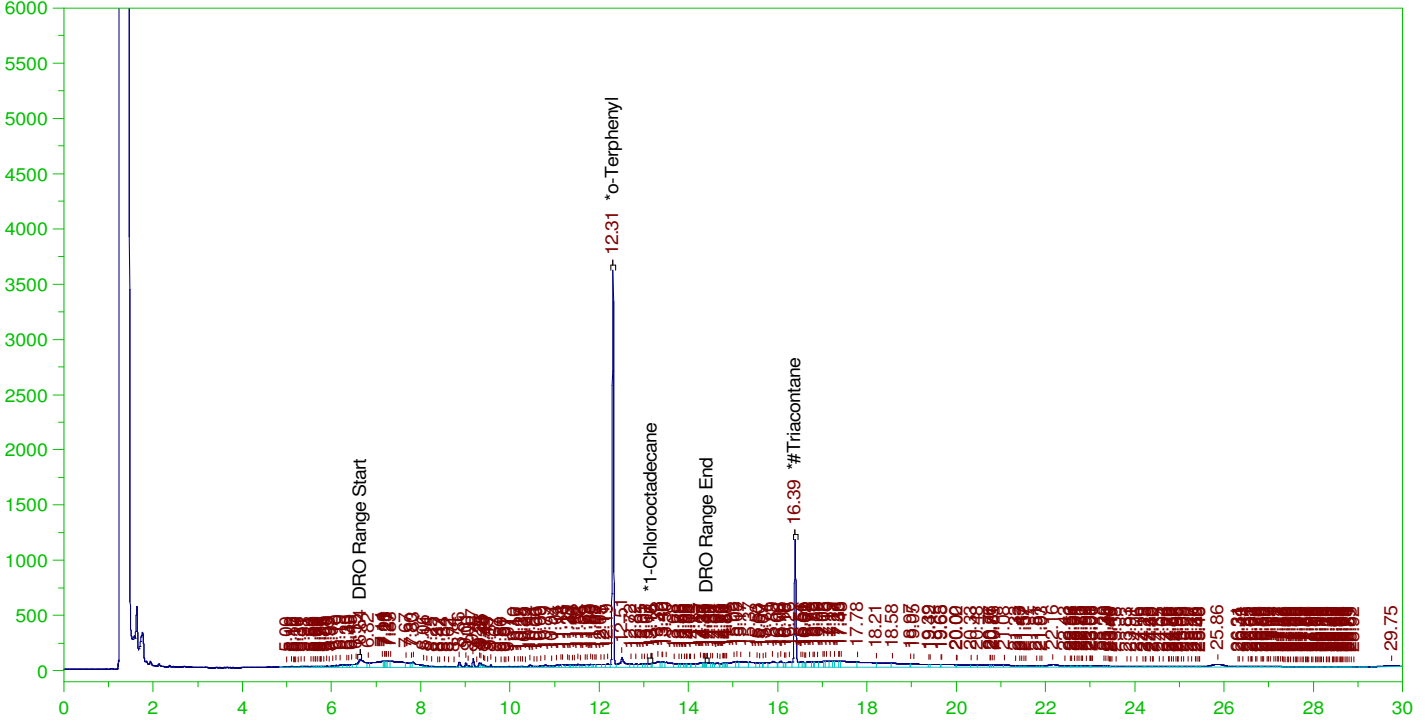
DRO Area:1844840 DRO Amount: 5.535262E-02  
TEH Area:3332278 TEH Amount: 9.998173E-02

ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0010.RAW

B22011135-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011135-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0010.RAW  
Date & Time Acquired: 1/24/2022 2:58:15 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-012410-JC-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.202	.191	94.59	-
*1-Chlorooctadecane	13.162	.202	.005	2.45	-
*#Triacontane	16.387	.202	.11	54.32	-

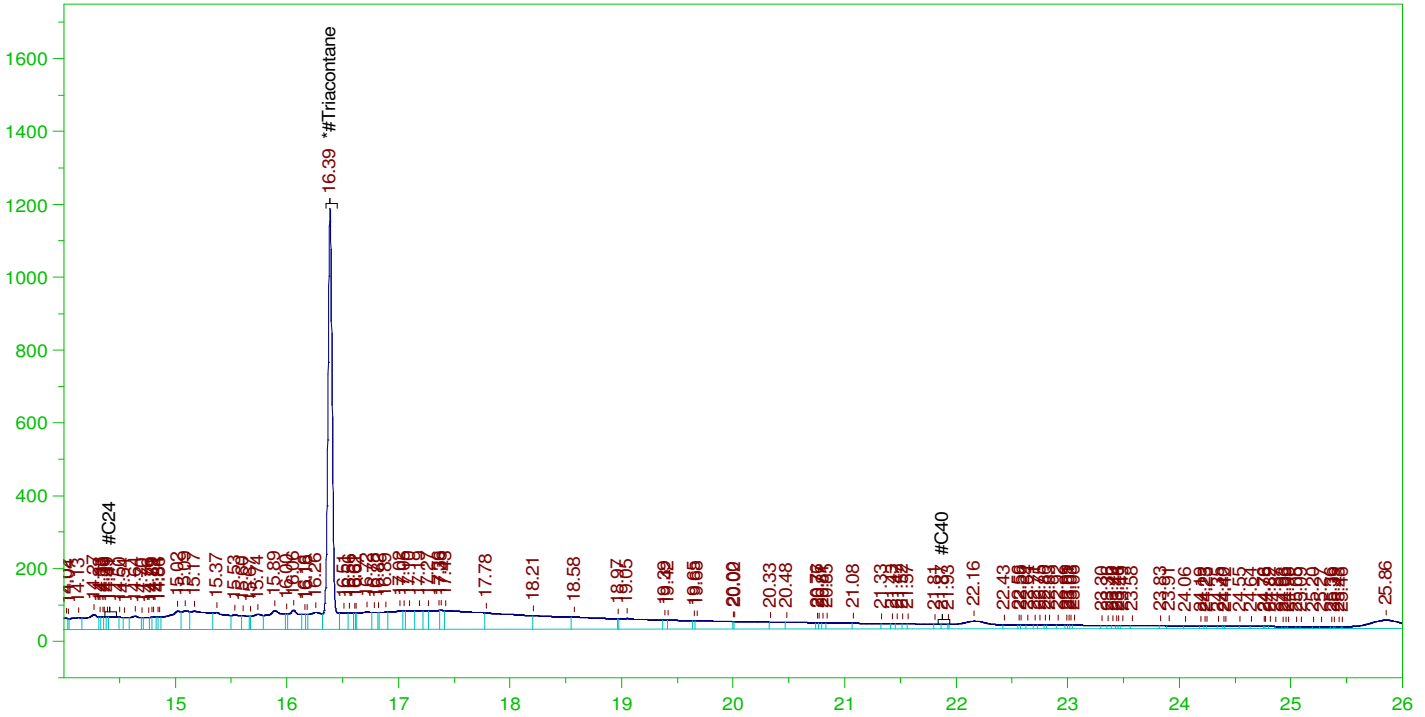
DRO Area:1.162531E+07 DRO Amount: 0.3593759  
TEH Area:2.970443E+07 TEH Amount: 0.9182599

ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0010.RAW

B22011135-001D ;0124HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011135-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0010.RAW  
Date & Time Acquired: 1/24/2022 2:58:15 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-BC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.387	.505	.11	21.73

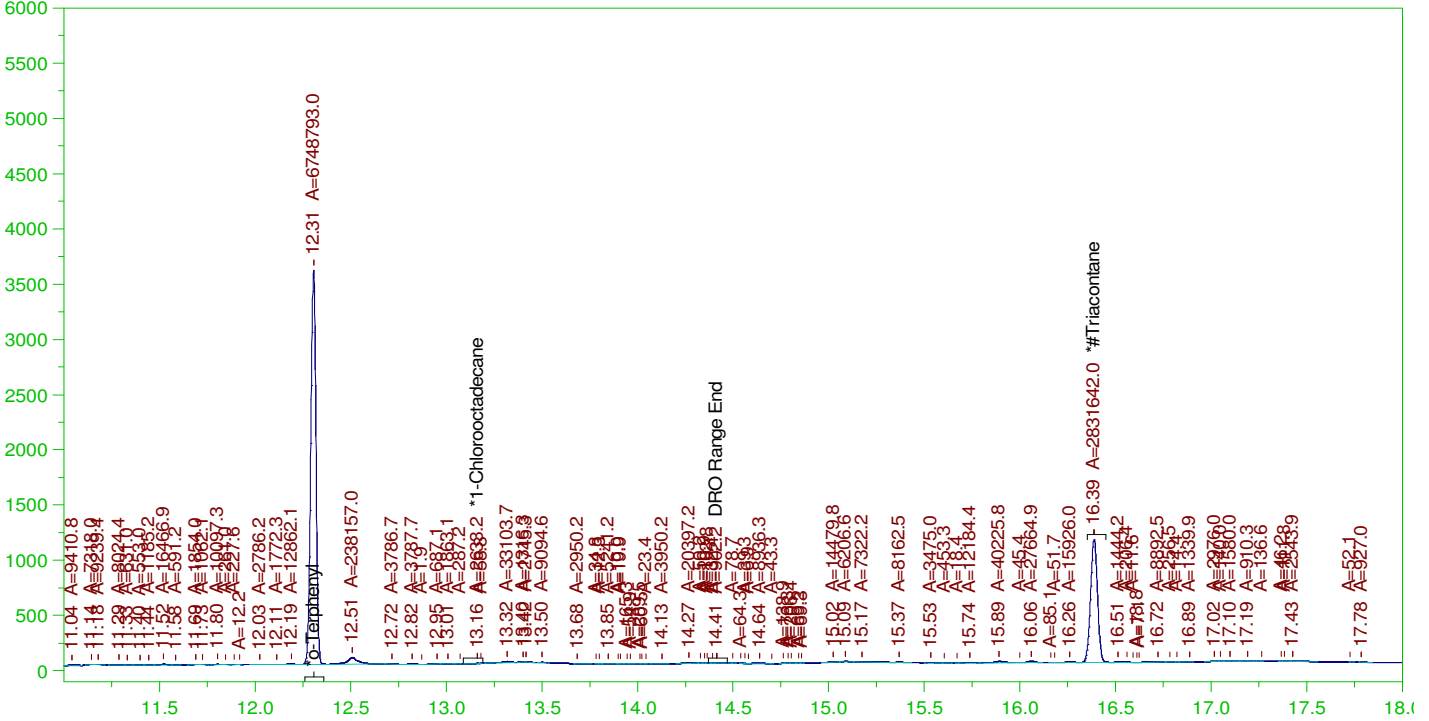
RRO Area:1.426973E+07 RRO AMOUNT: 0.5454725

ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0010.RAW

B22011135-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011135-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0010.RAW  
Date & Time Acquired: 1/24/2022 2:58:15 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.306	.202	.185	91.55
*1-Chlorooctadecane	13.162	.202	.04	-
*#Triacontane	16.387	.202	.097	47.77

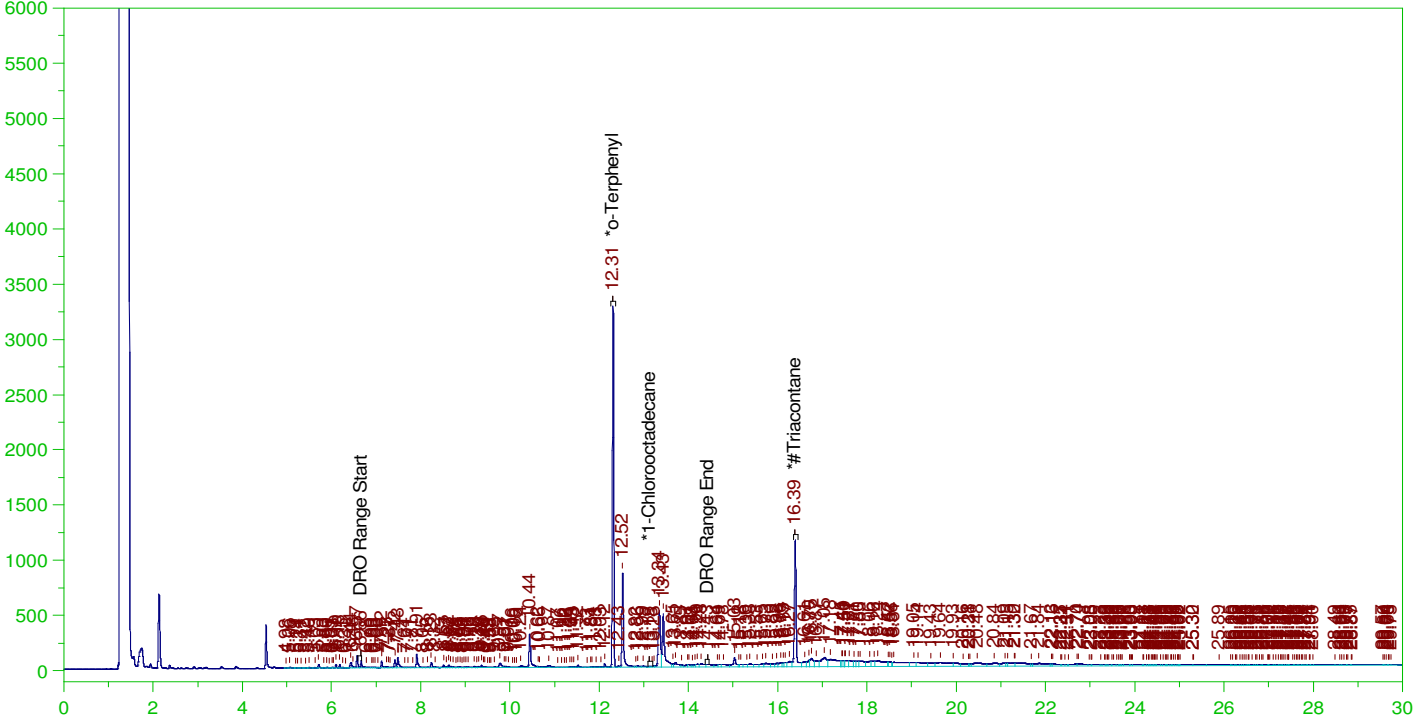
DRO Area:5732940 DRO Amount: 0.1772237  
TEH Area:8278990 TEH Amount: 0.2559303

ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0011.RAW

B22011129-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011129-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0011.RAW  
Date & Time Acquired: 1/24/2022 3:40:51 PM  
Method File: G:\Org\HP5\Methods\D3\_8015-C24T-JC-L%.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.19	.163	85.49	-
*1-Chlorooctadecane	13.118	.19	.001	.35	-
*#Triacontane	16.389	.19	.109	57.21	-

DRO Area:1.132419E+07 DRO Amount: 0.3300634

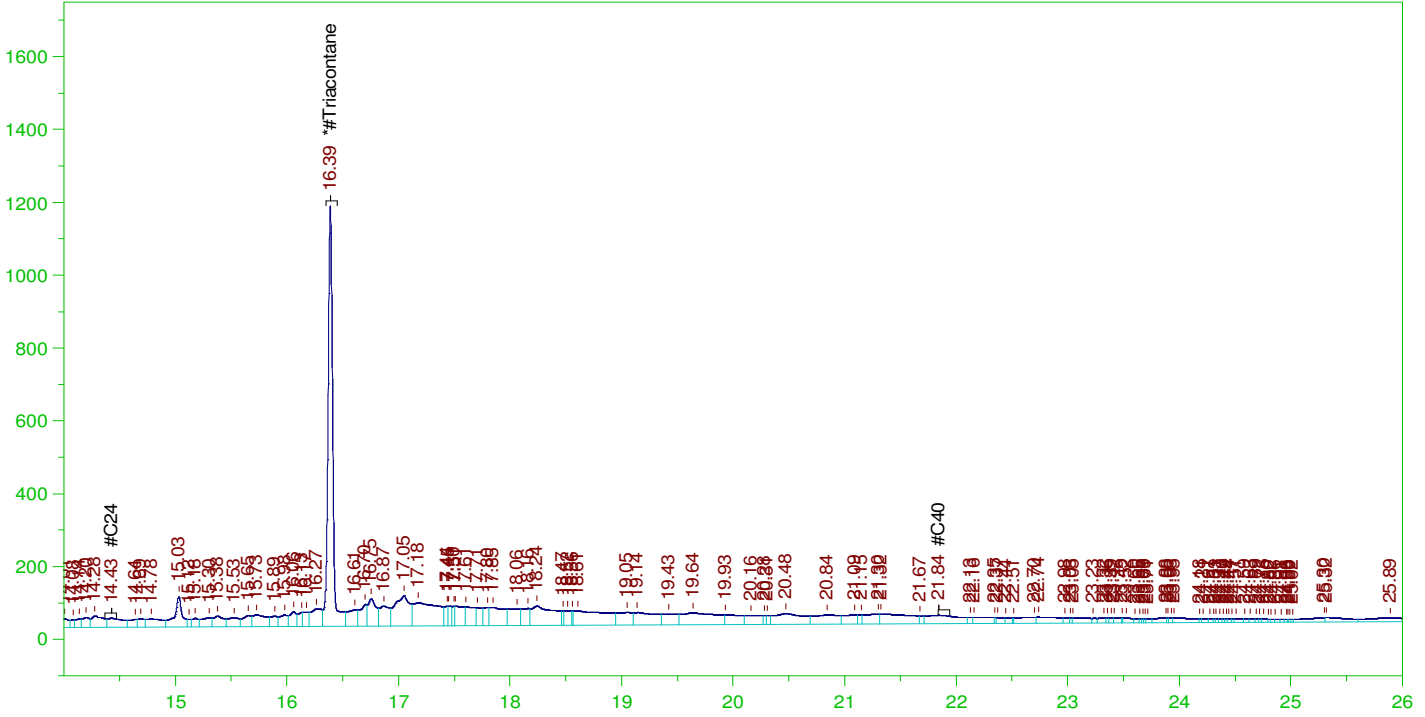
TEH Area:3.119176E+07 TEH Amount: 0.9091387

ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0011.RAW

B22011129-001D ;0124HP5 , \$HC-8015-DRO-W,



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011129-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0011.RAW  
Date & Time Acquired: 1/24/2022 3:40:51 PM  
Method File: G:\Org\HP5\Methods\D3\_OROS-BC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*Triacontane_____	16.389	.476	.109	22.88

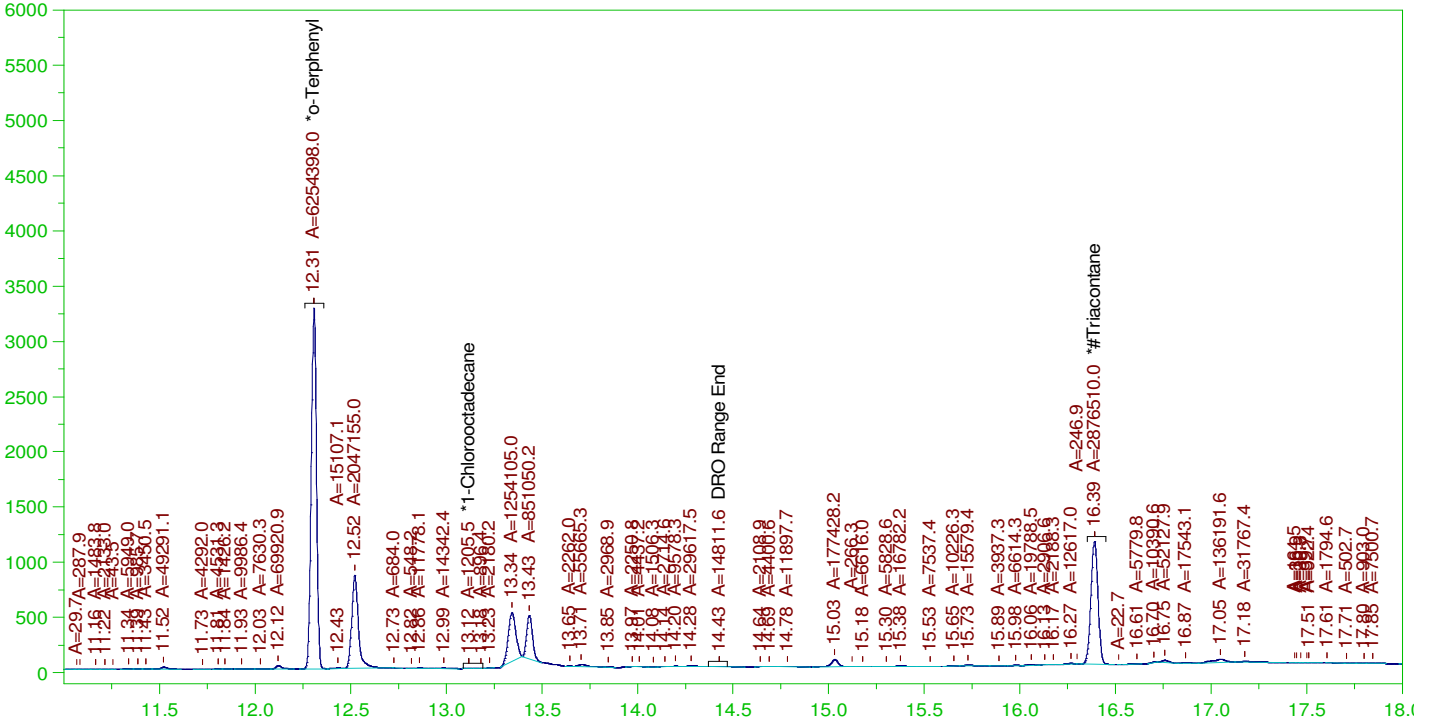
RRO Area:1.517624E+07 RRO AMOUNT: 0.5469747

ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0011.RAW

B22011129-001D ;0124HP5 , \$HC-8015-DRO-W,



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011129-001D ;0124HP5 , \$HC-8015-DRO-W,  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0011.RAW  
Date & Time Acquired: 1/24/2022 3:40:51 PM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1050 Dilution: 1 S.A.: 1

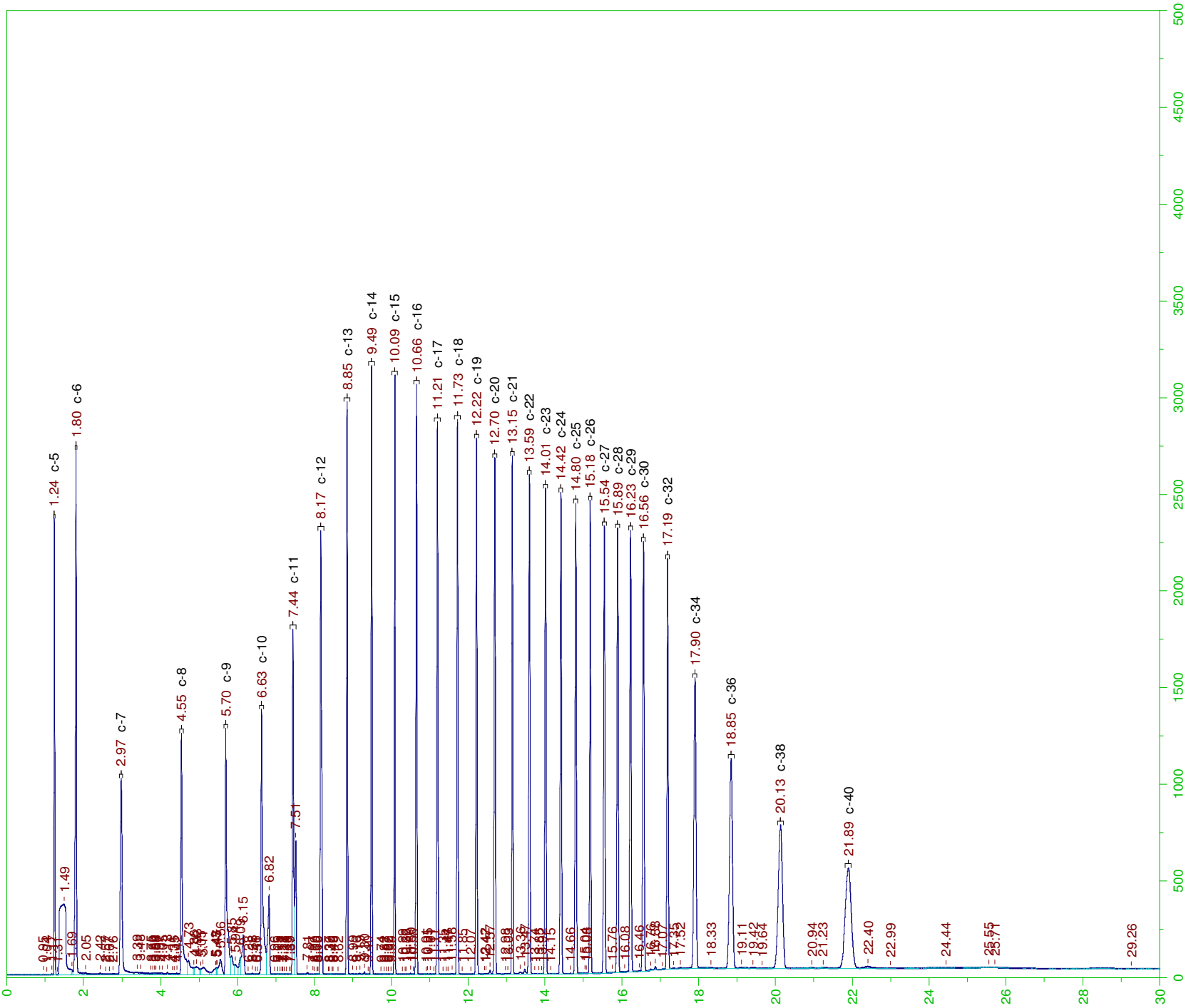
Mean RF for TEH: 32675.36

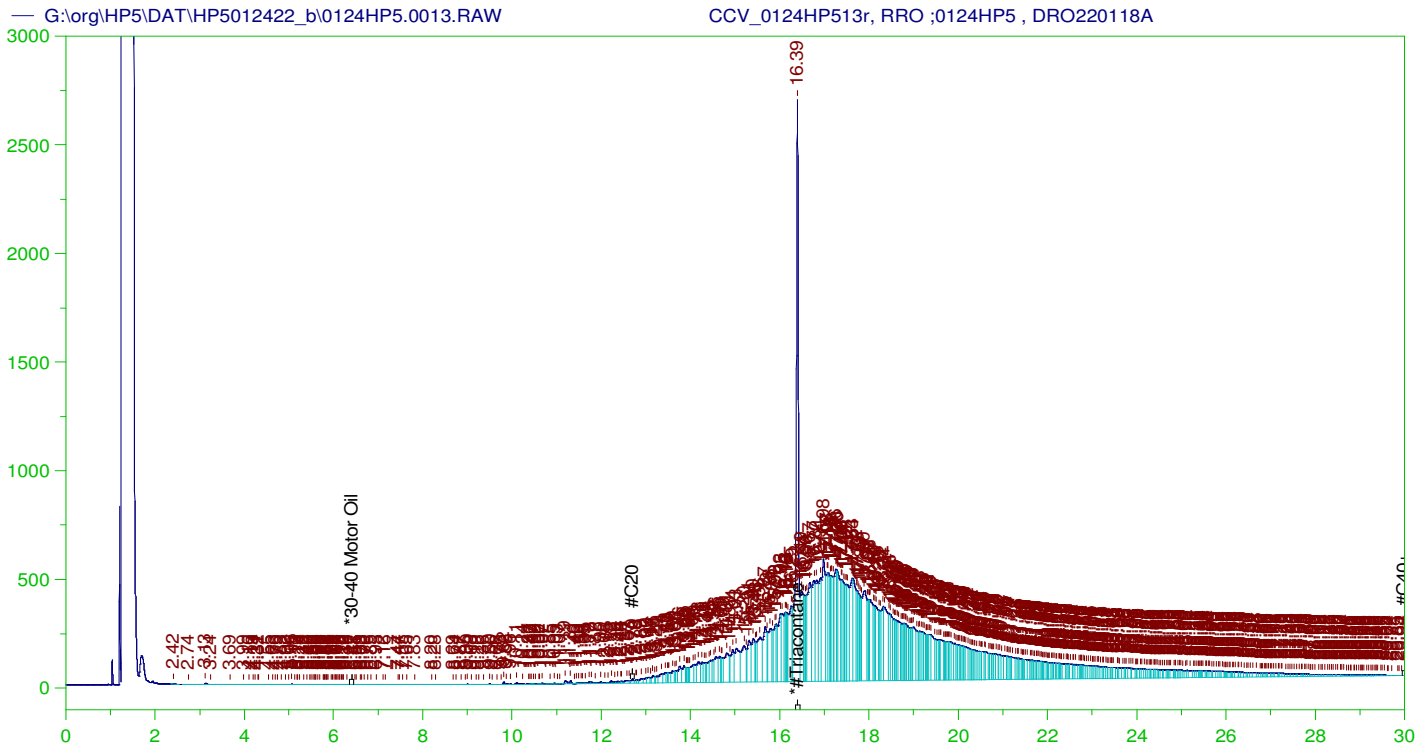
Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.308	.19	.162	84.84	-
*1-Chlorooctadecane	13.118	.19	.	.02	-
*#Triacontane	16.389	.19	.092	48.53	-

DRO Area:8040703 DRO Amount: 0.2343605  
TEH Area:1.107507E+07 TEH Amount: 0.3228024







**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP513r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW  
 Date & Time Acquired: 1/24/2022 5:06:20 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.393	500.	319.904	63.98	-

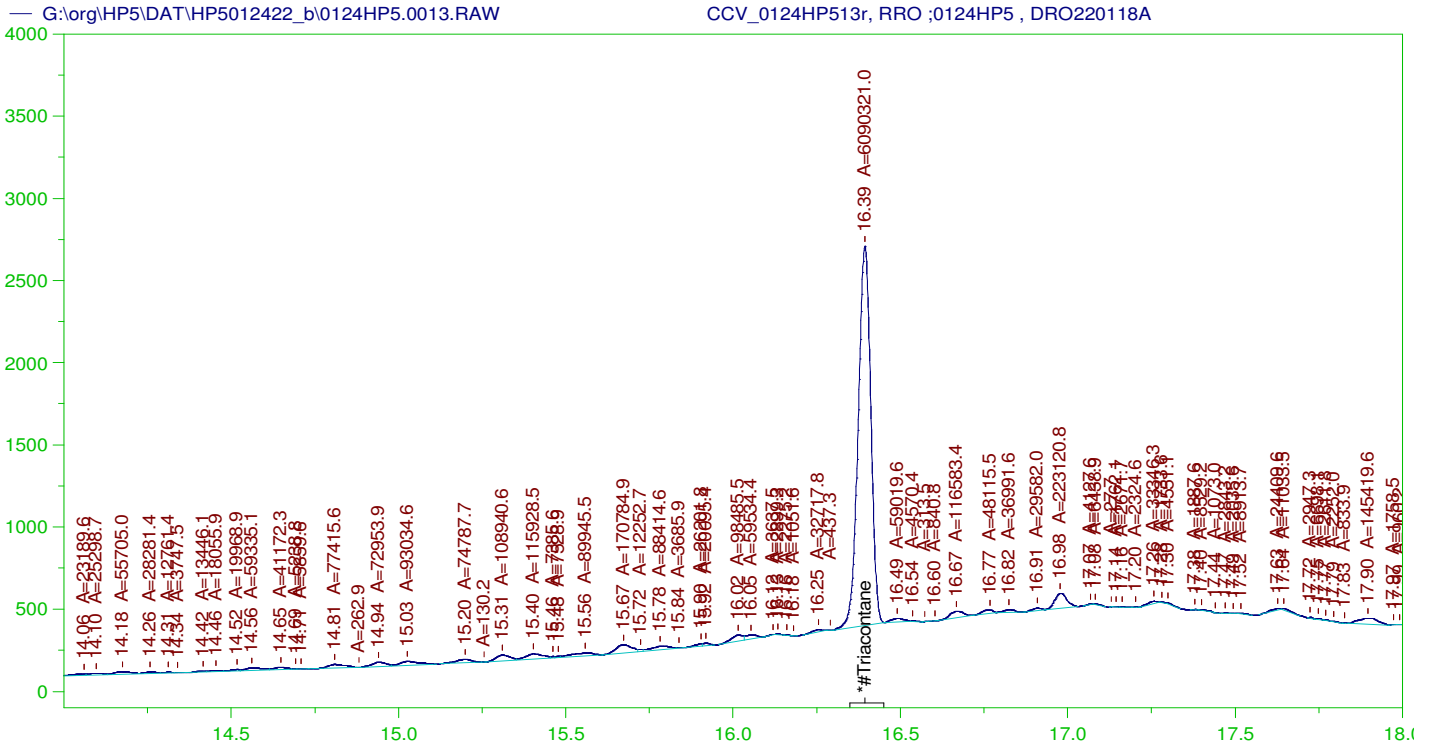
~~RRO~~ TEH(Oil Range) Area:1.254474E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4747.379

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.126	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.393	200.	319.904	159.95	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP513r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW  
 Date & Time Acquired: 1/24/2022 5:06:20 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.393	500.	205.503	41.1	-

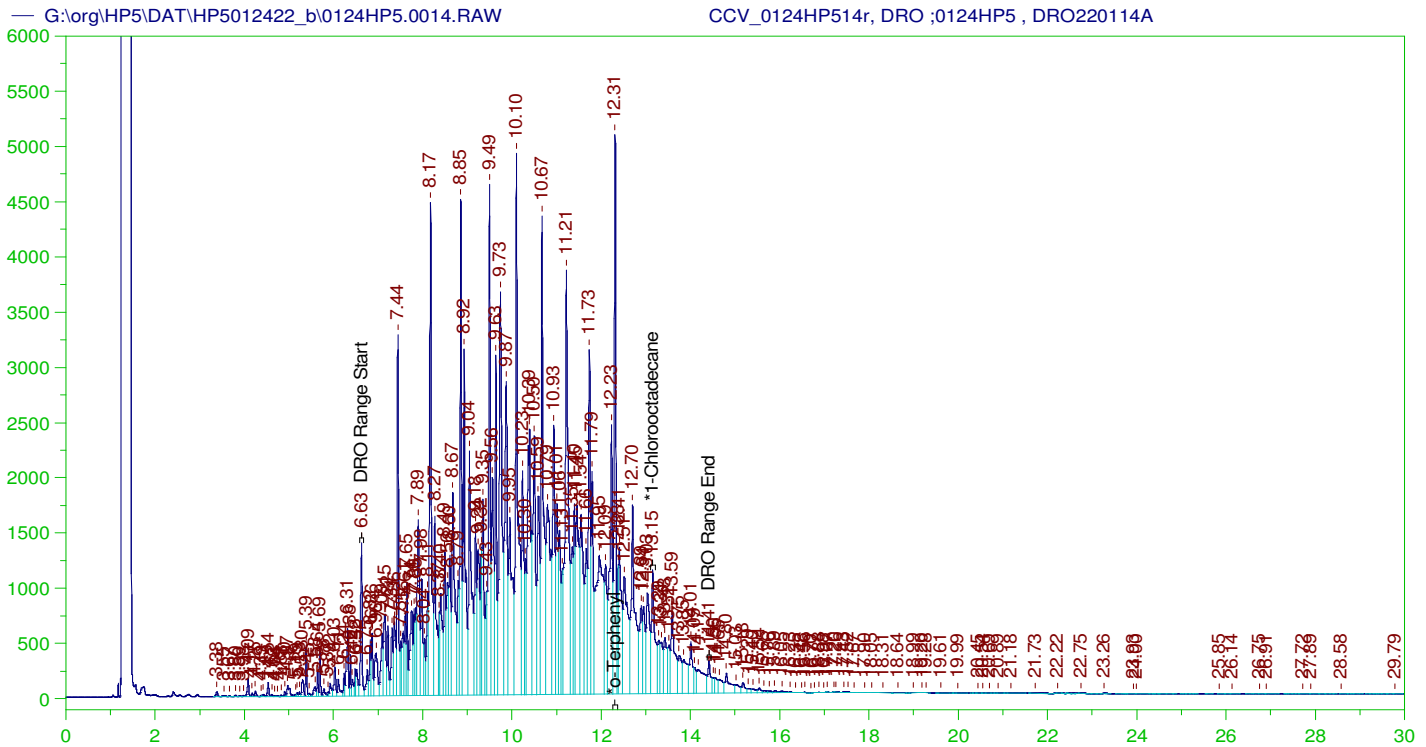
RRO Area:2892912 RRO AMOUNT: 109.4782

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.126	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.393	200.	205.503	102.75	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP514r, DRO ;0124HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW  
 Date & Time Acquired: 1/24/2022 5:49:02 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.309	200.	338.358	169.18
*1-Chlorooctadecane	13.152	200.	155.373	77.69

DRO Area: 4.734599E+08 DRO Amount: 14489.81  
 TEH Area: 4.904331E+08 TEH Amount: 15009.26

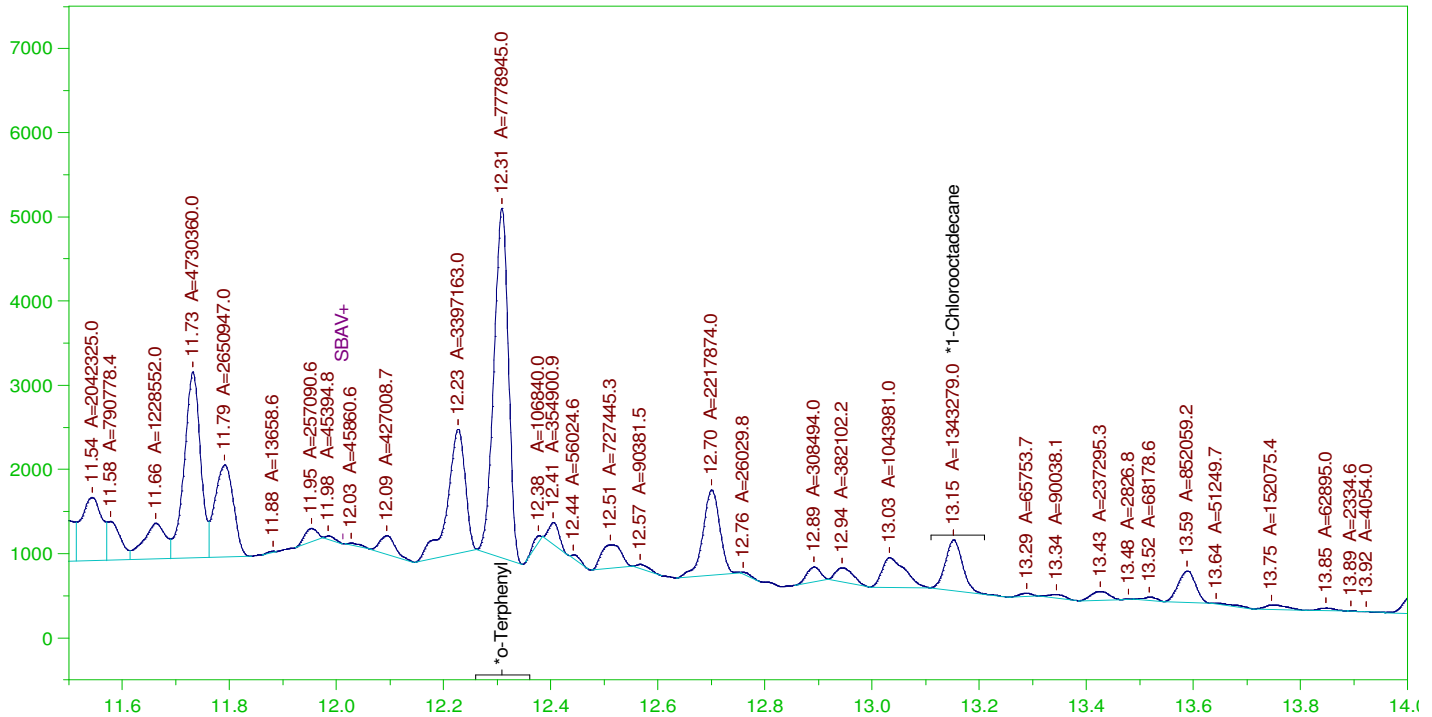
**CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW**

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15009.26	100.06	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.309	200.	338.358	169.18	85-115
*1-Chlorooctadecane	13.152	200.	155.373	77.69	85-115

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW

CCV\_0124HP514r, DRO ;0124HP5 , DRO220114A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP514r, DRO ;0124HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW  
 Date & Time Acquired: 1/24/2022 5:49:02 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

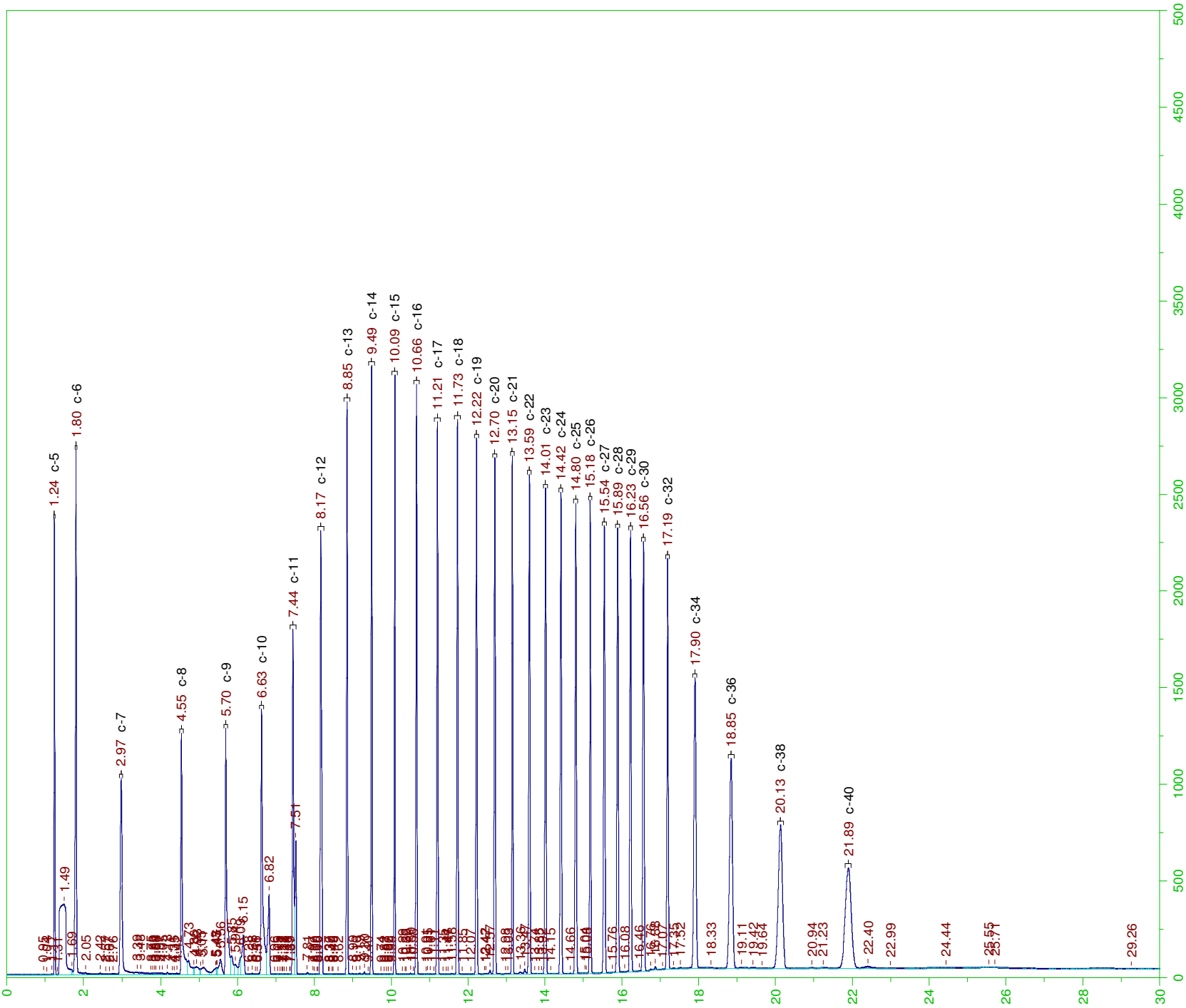
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.309	200.	211.053	105.53
*1-Chlorooctadecane	13.152	200.	36.445	18.22

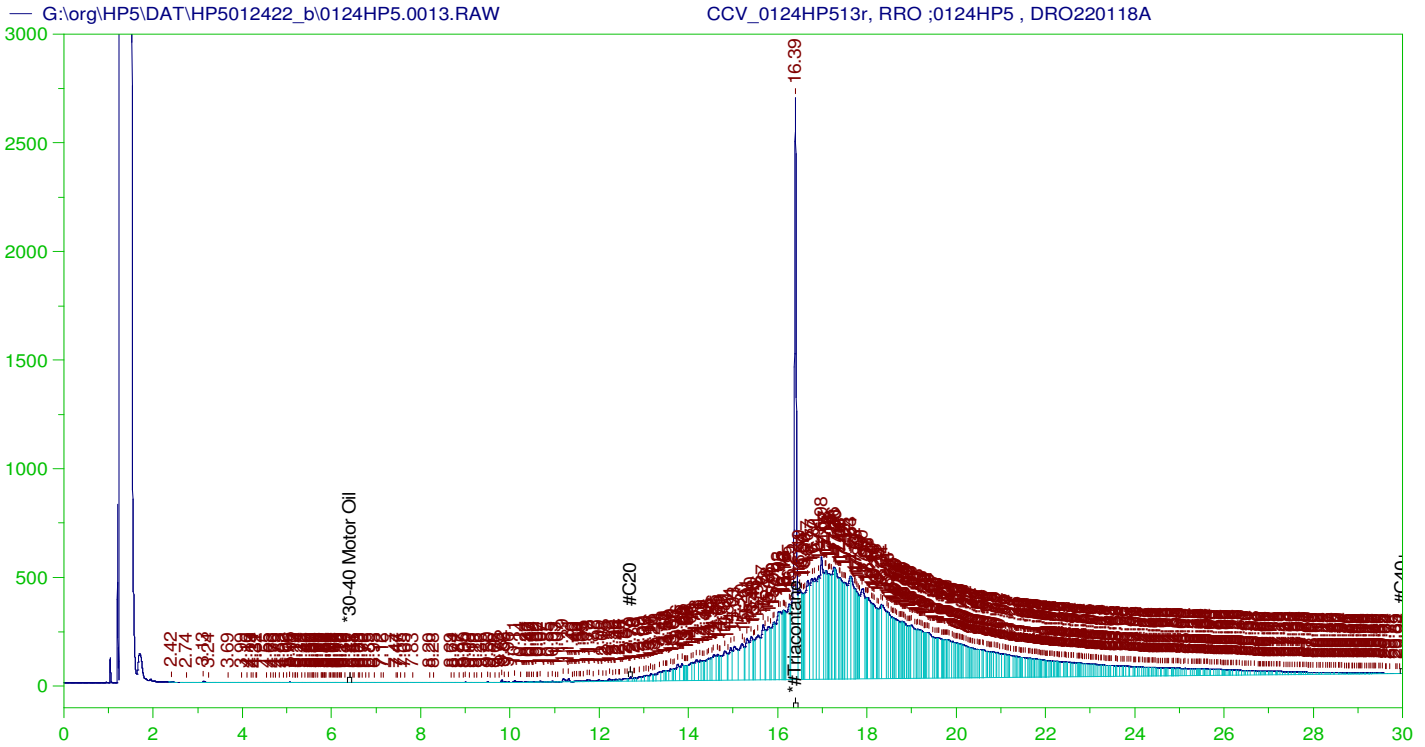
DRO Area: 2.448323E+08 DRO Amount: 7492.872  
 TEH Area: 2.556175E+08 TEH Amount: 7822.942

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7822.94	52.15	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.309	200.	211.053	105.53	85-115
*1-Chlorooctadecane	13.152	200.	36.445	18.22	85-115





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP513r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW  
 Date & Time Acquired: 1/24/2022 5:06:20 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.393	500.	319.904	63.98	-

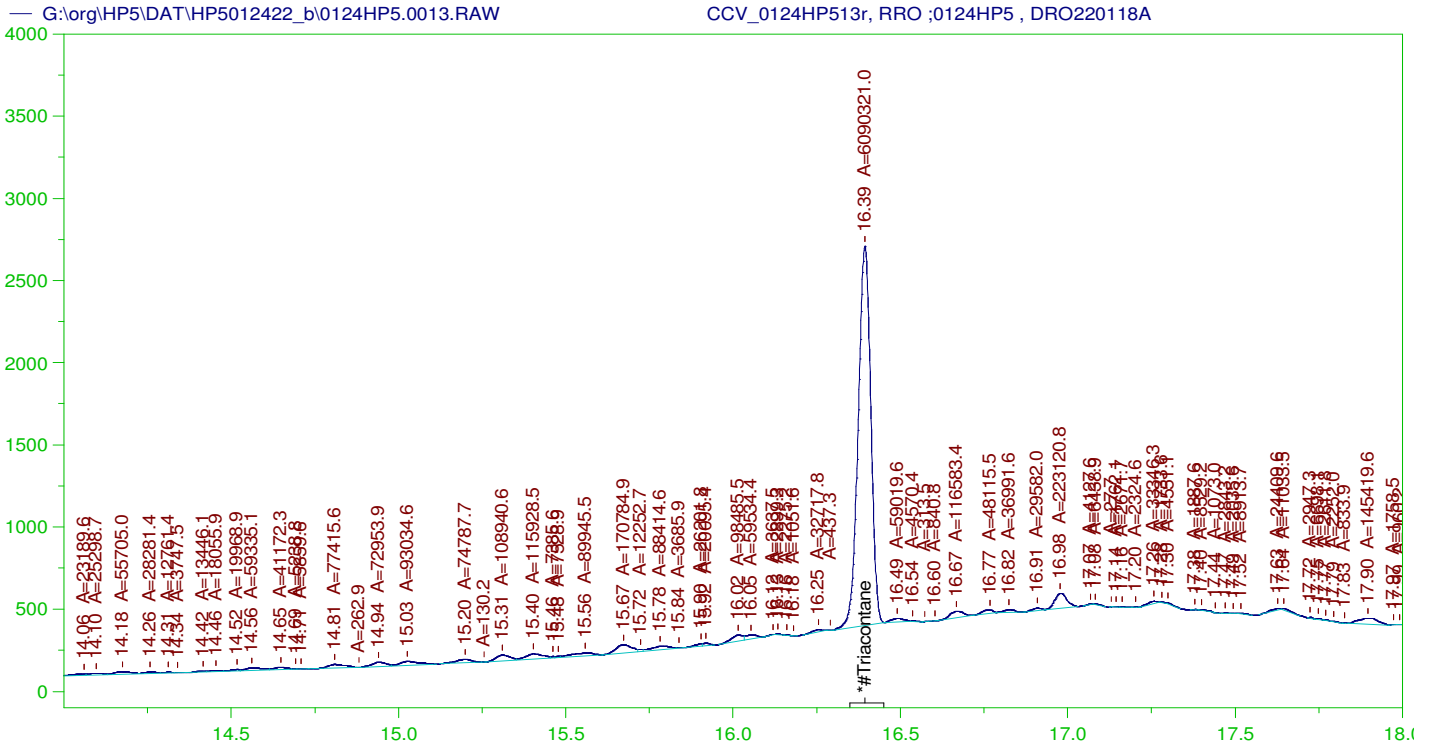
~~RRO~~ TEH(Oil Range) Area:1.254474E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4747.379

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.126	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.393	200.	319.904	159.95	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP513r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW  
 Date & Time Acquired: 1/24/2022 5:06:20 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.393	500.	205.503	41.1	-

RRO Area:2892912 RRO AMOUNT: 109.4782

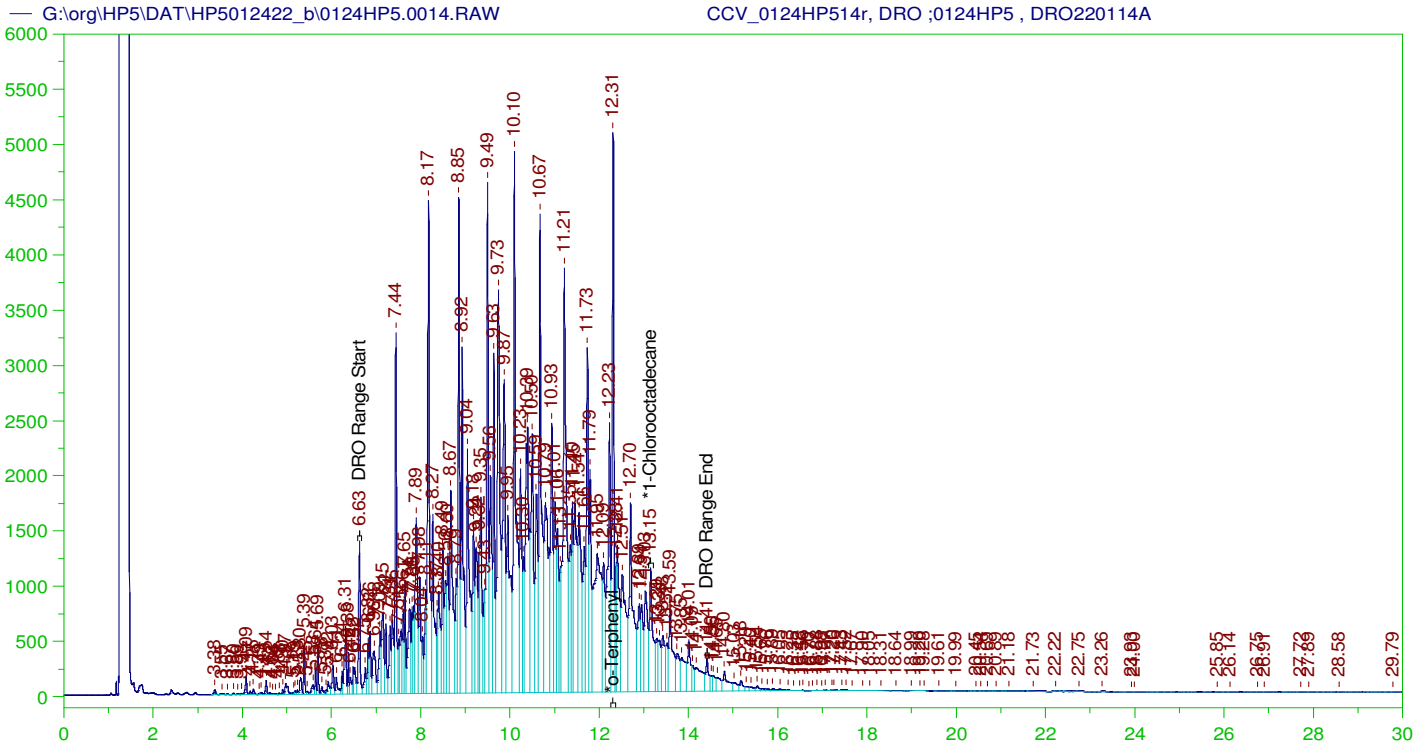
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.126	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.393	200.	205.503	102.75	75-125





**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP514r, DRO ;0124HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW  
 Date & Time Acquired: 1/24/2022 5:49:02 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.309	200.	338.358	169.18
*1-Chlorooctadecane	13.152	200.	155.373	77.69

DRO Area: 4.734599E+08 DRO Amount: 14489.81  
 TEH Area: 4.904331E+08 TEH Amount: 15009.26

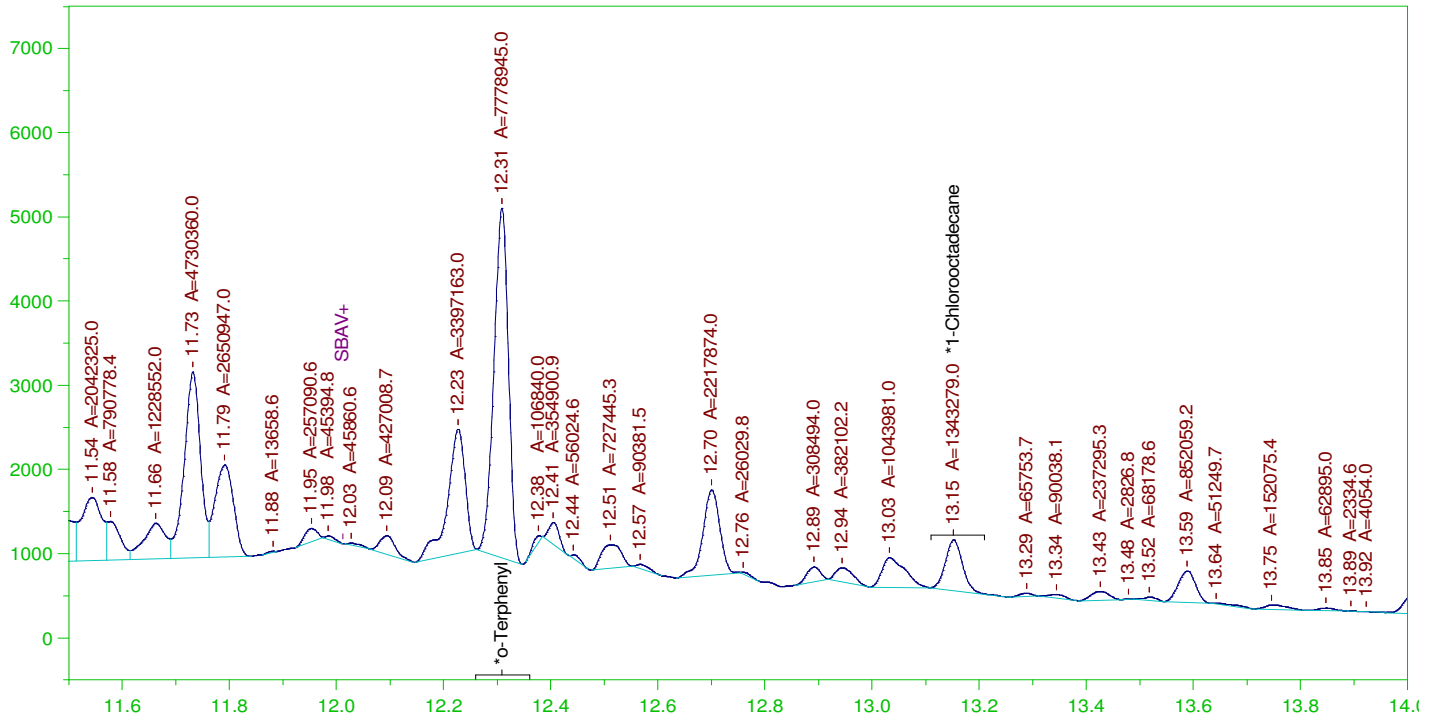
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15009.26	100.06	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.309	200.	338.358	169.18	85-115
*1-Chlorooctadecane	13.152	200.	155.373	77.69	85-115

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW

CCV\_0124HP514r, DRO ;0124HP5 , DRO220114A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP514r, DRO ;0124HP5 , DRO220114A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW  
 Date & Time Acquired: 1/24/2022 5:49:02 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

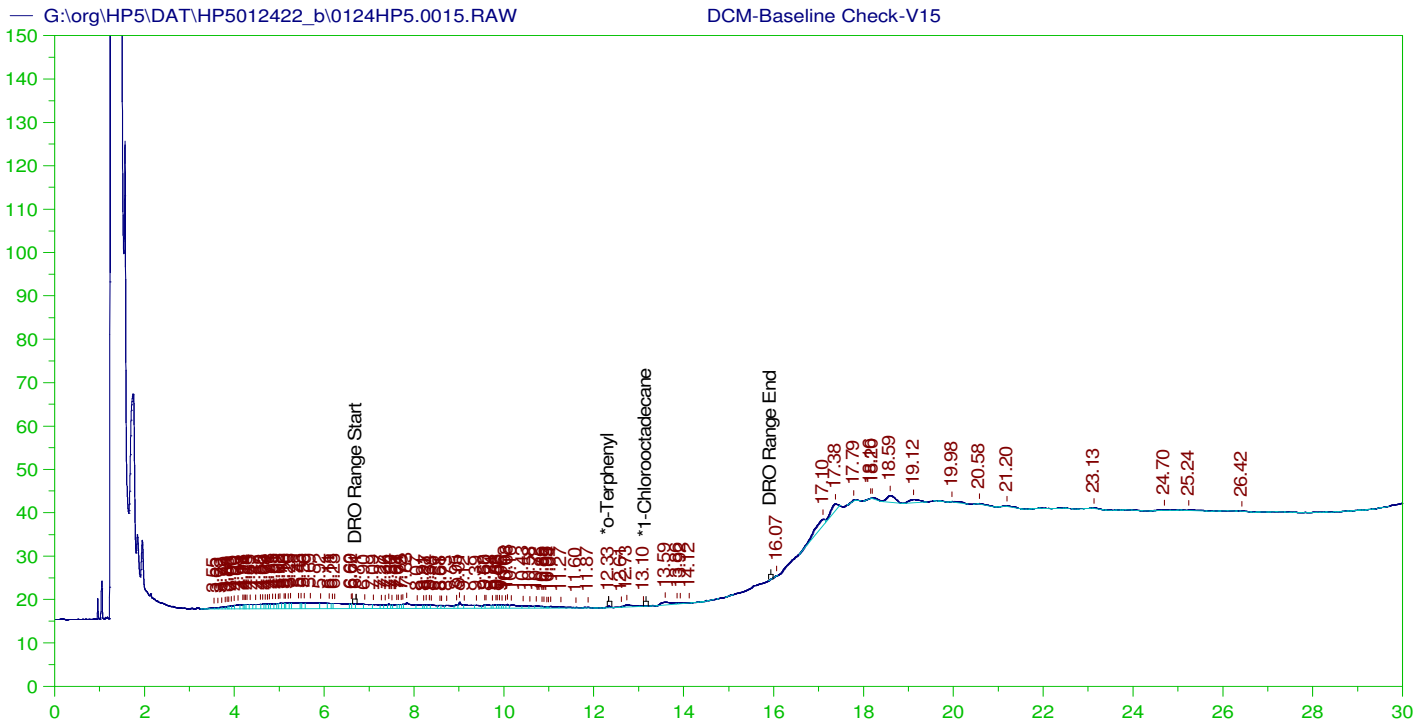
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.309	200.	211.053	105.53
*1-Chlorooctadecane	13.152	200.	36.445	18.22

DRO Area: 2.448323E+08 DRO Amount: 7492.872  
 TEH Area: 2.556175E+08 TEH Amount: 7822.942

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0014.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7822.94	52.15	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.309	200.	211.053	105.53	85-115
*1-Chlorooctadecane	13.152	200.	36.445	18.22	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

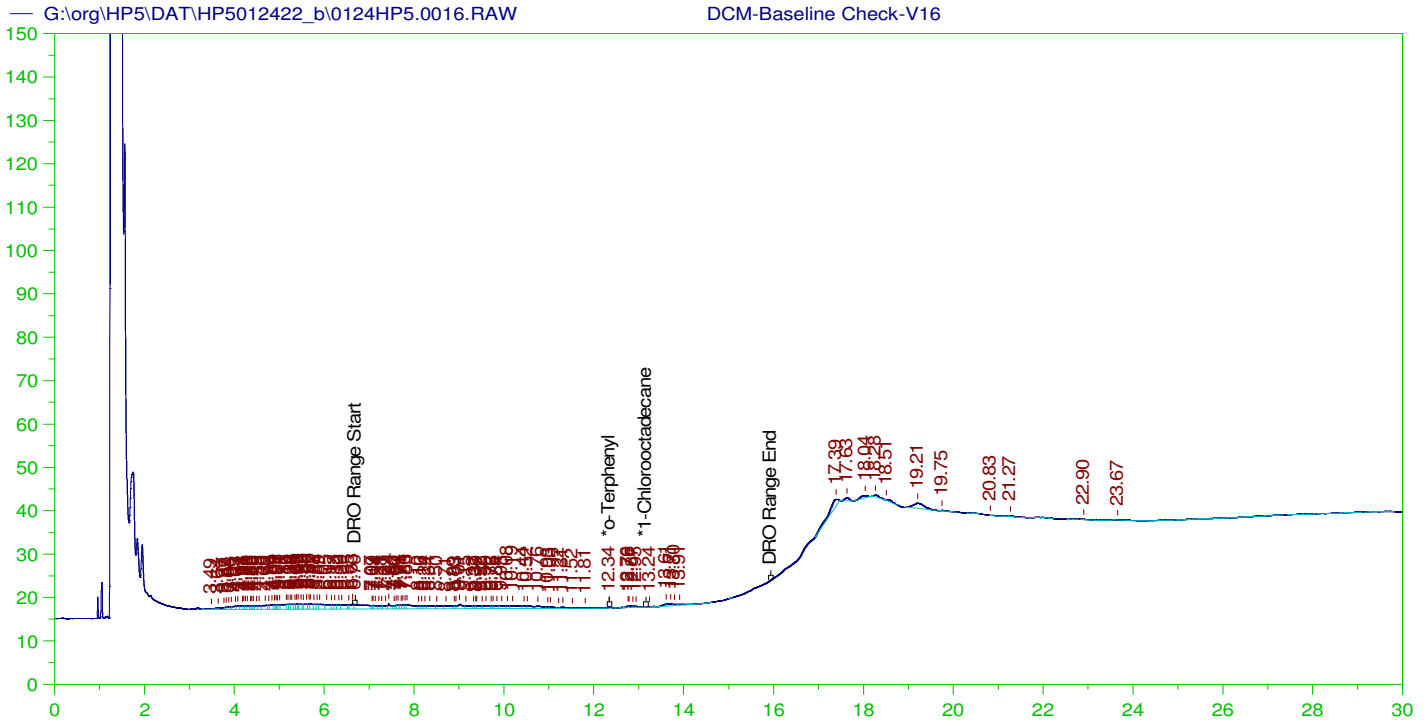
Sample Name: DCM-Baseline Check-V15  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0015.RAW  
 Date & Time Acquired: 1/24/2022 6:31:47 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.328	200.	.041	.02 -
*1-Chlorooctadecane	29.667	200.	.	. -

DRO Area:215758 DRO Amount: 6.60308  
 TEH Area:528333.5 TEH Amount: 16.16917



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

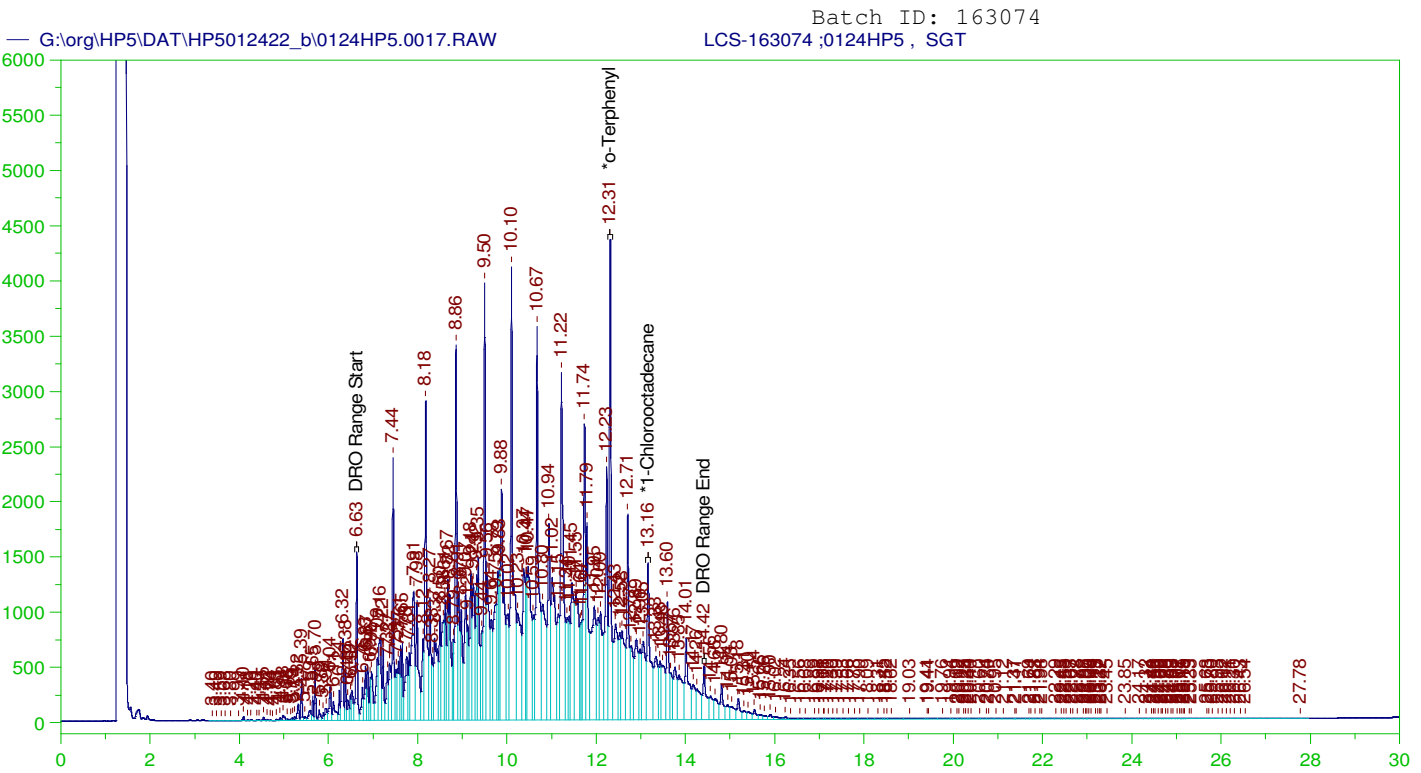
Sample Name: DCM-Baseline Check-V16  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0016.RAW  
 Date & Time Acquired: 1/24/2022 7:14:24 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.338	200.	.039	.02 -
*1-Chlorooctadecane	29.768	200.	.	. -

DRO Area:201317 DRO Amount: 6.161127  
 TEH Area:447597.1 TEH Amount: 13.69831



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS-163074 ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0017.RAW  
 Date & Time Acquired: 1/24/2022 7:57:08 PM  
 Method File: G:\Org\HP5\Methods\D3\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111Jc-C24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

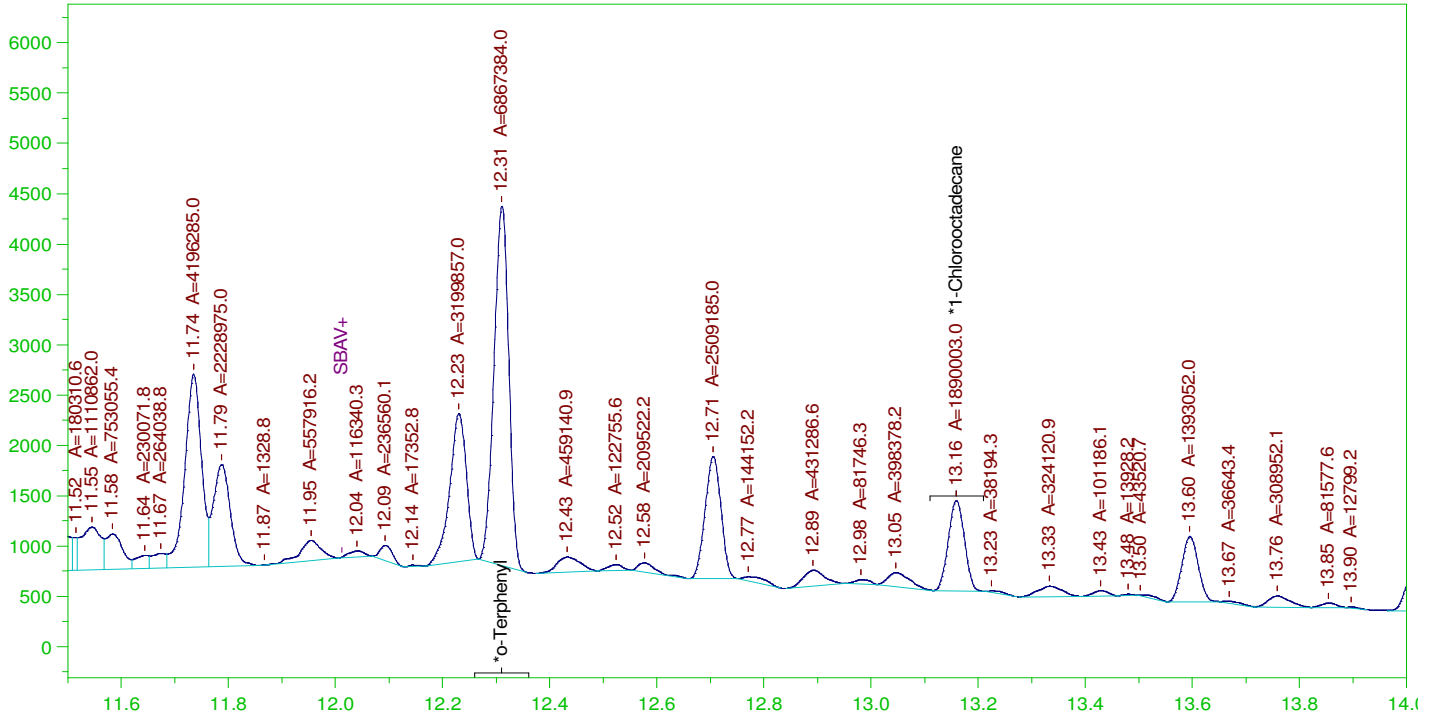
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.311	.2	.319	159.29	-
*1-Chlorooctadecane	13.159	.2	.187	93.34	-

DRO Area: 3.838322E+08 DRO Amount: 11.74684  
 TEH Area: 4.069204E+08 TEH Amount: 12.45343

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0017.RAW

LCS-163074 ;0124HP5 , SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

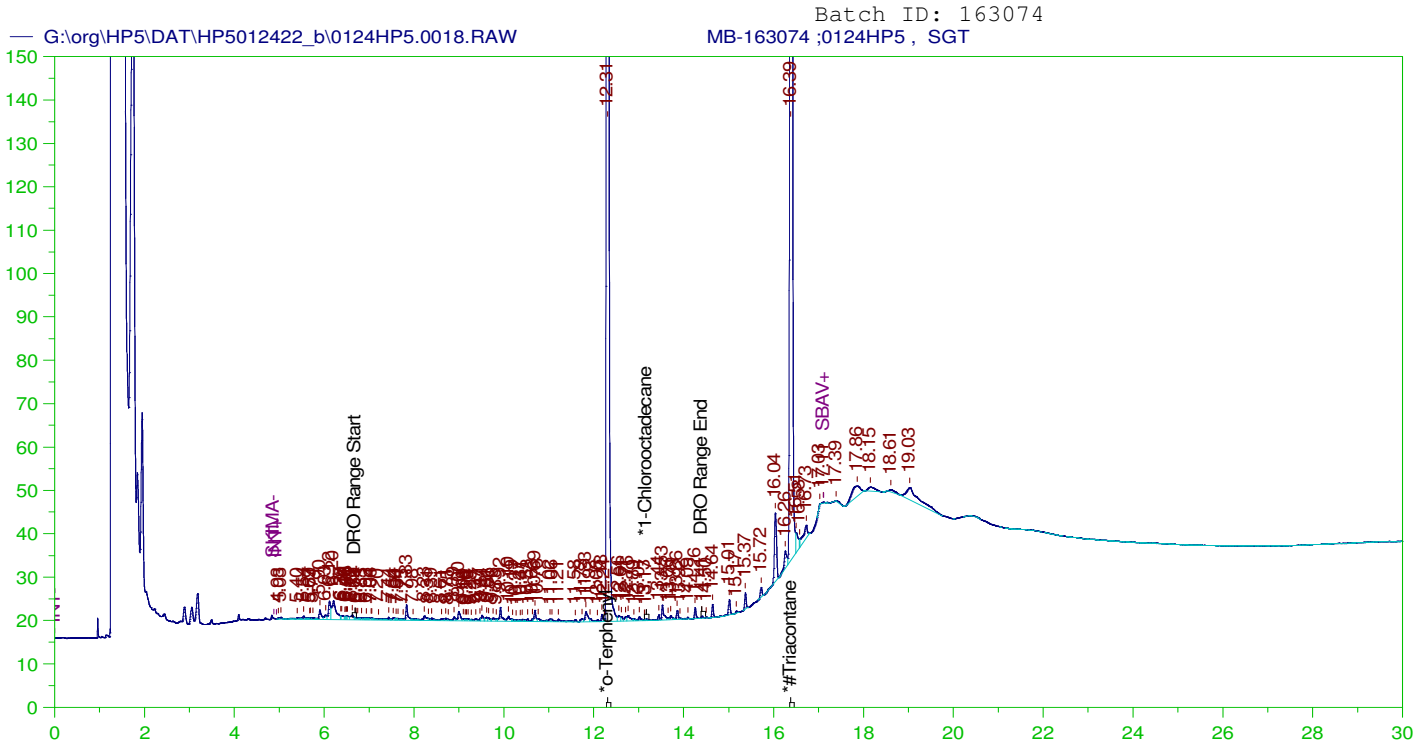
Sample Name: LCS-163074 ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0017.RAW  
 Date & Time Acquired: 1/24/2022 7:57:08 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.311	.2	.186	93.16
*1-Chlorooctadecane	13.159	.2	.051	25.64

DRO Area:1.789397E+08 DRO Amount: 5.476289  
 TEH Area:1.896358E+08 TEH Amount: 5.803633



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-163074 ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0018.RAW  
 Date & Time Acquired: 1/24/2022 8:39:48 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.62 to 14.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.2	.164	81.85	-
*1-Chlorooctadecane	13.168	.2	.01		-
*#Triacontane	16.387	.2	.081	40.32	-

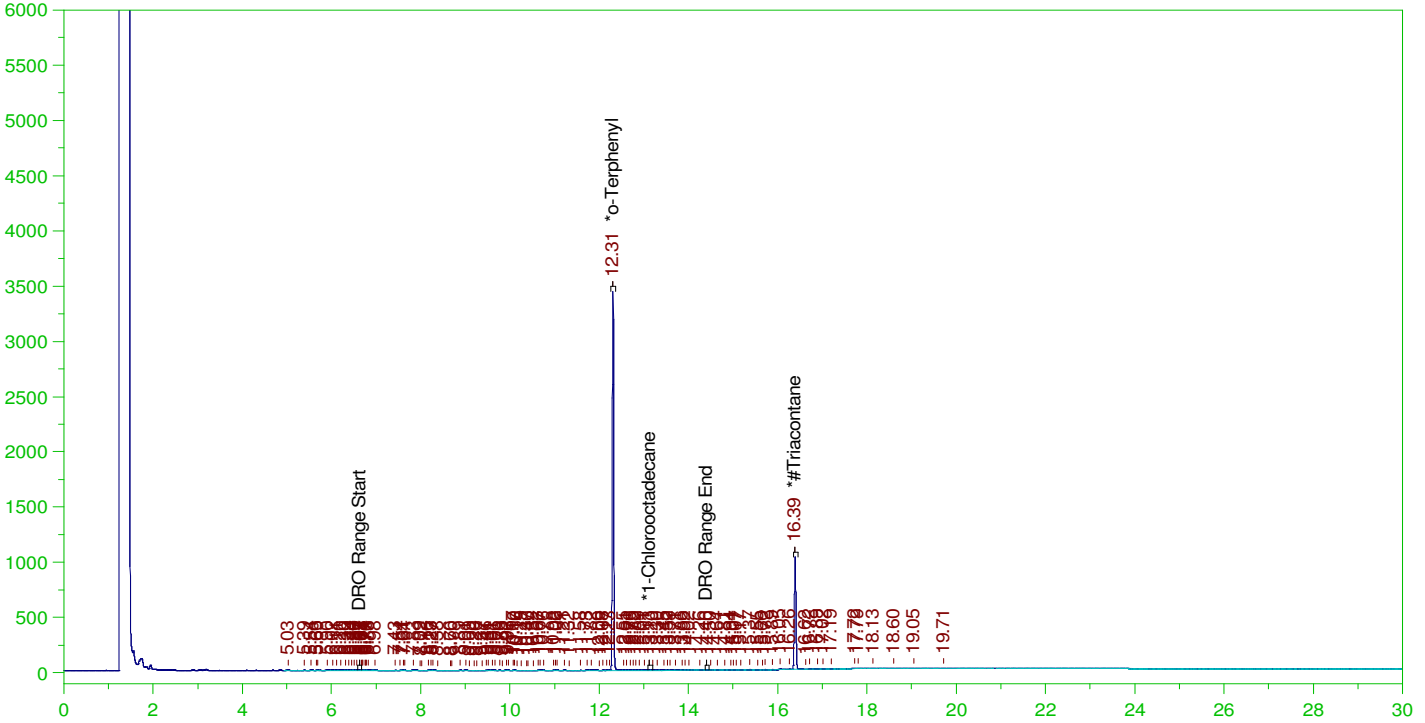
DRO Area:212750.3 DRO Amount: 6.51103E-03  
 TEH Area:545010.6 TEH Amount: 1.667956E-02

ERH2472 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0019.RAW

B22011125-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011125-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0019.RAW  
 Date & Time Acquired: 1/24/2022 9:22:28 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.202	.188	92.82	-
*1-Chlorooctadecane	13.127	.202	.	.03	-
*#Triacontane	16.387	.202	.093	45.95	-

DRO Area:269101.2 DRO Amount: 8.318787E-03  
 TEH Area:539507.1 TEH Amount: 1.667791E-02

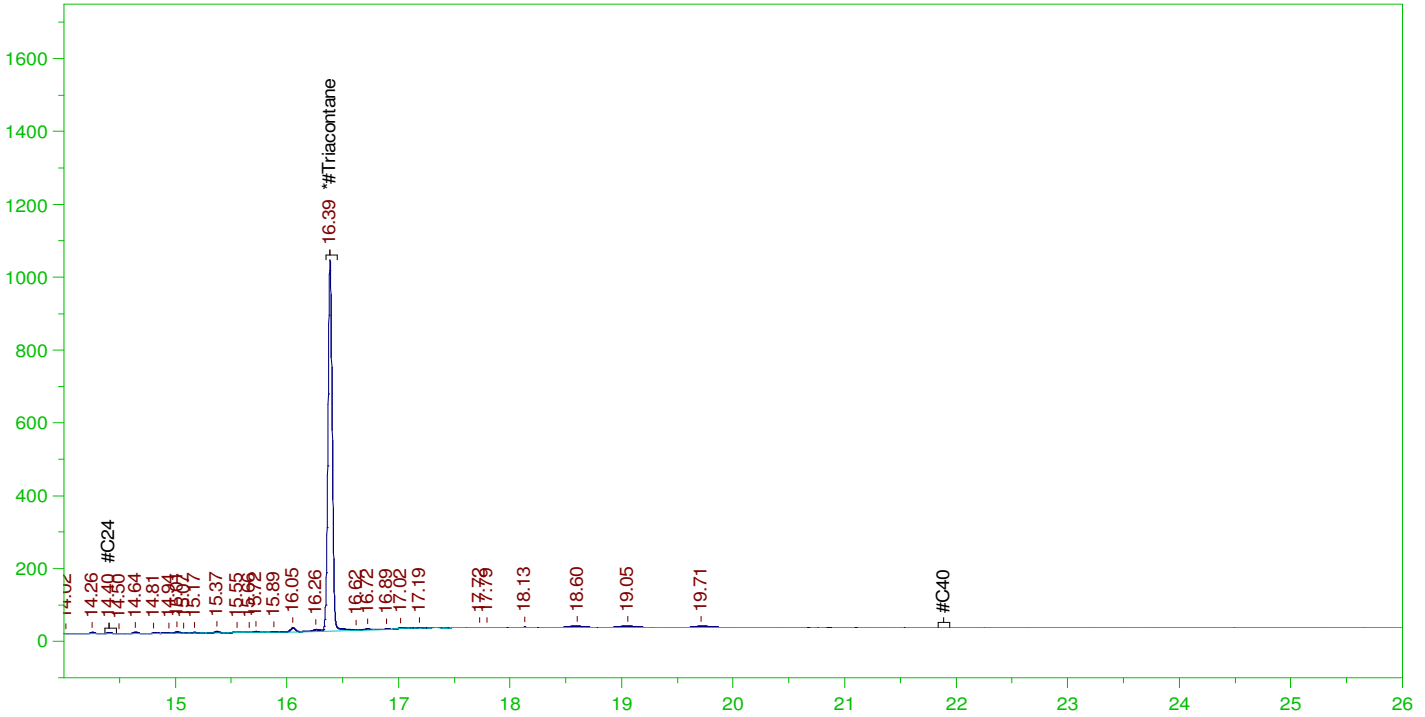


ERH2472 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0019.RAW

B22011125-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011125-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0019.RAW  
 Date & Time Acquired: 1/24/2022 9:22:28 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.387	.505	.093	18.38

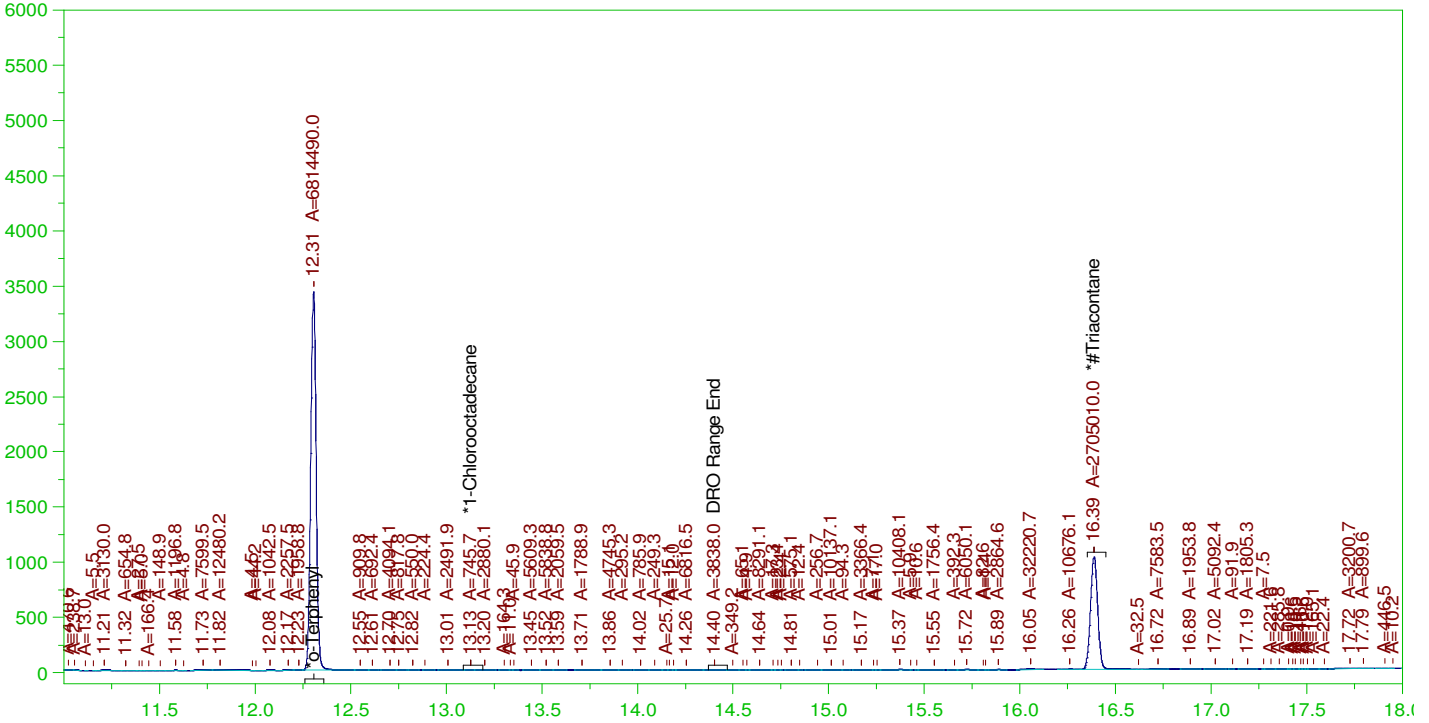
RRO Area:212110.6 RRO AMOUNT: 8.108108E-03

ERH2472 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0019.RAW

B22011125-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011125-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0019.RAW  
 Date & Time Acquired: 1/24/2022 9:22:28 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

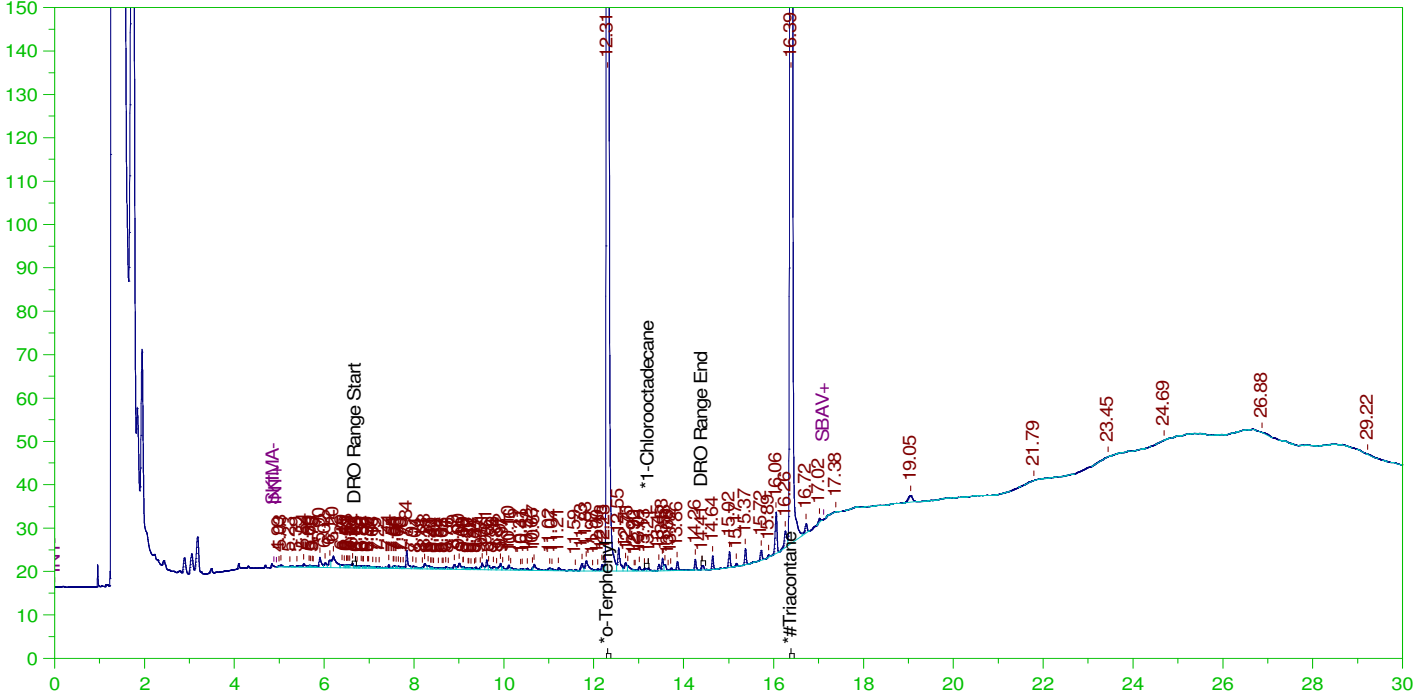
Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.202	.187	92.44	-
*1-Chlorooctadecane	13.127	.202	.	.01	-
*#Triacontane	16.387	.202	.092	45.64	-

DRO Area:270006.3 DRO Amount: 8.346767E-03  
 TEH Area:683944.4 TEH Amount: 2.114293E-02

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012422\_b\0124HP5.0020.RAW

Batch ID: 163074  
B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0020.RAW  
Date & Time Acquired: 1/24/2022 10:05:12 PM  
Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JB-L0.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JB-C24-T.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.62 to 14.49

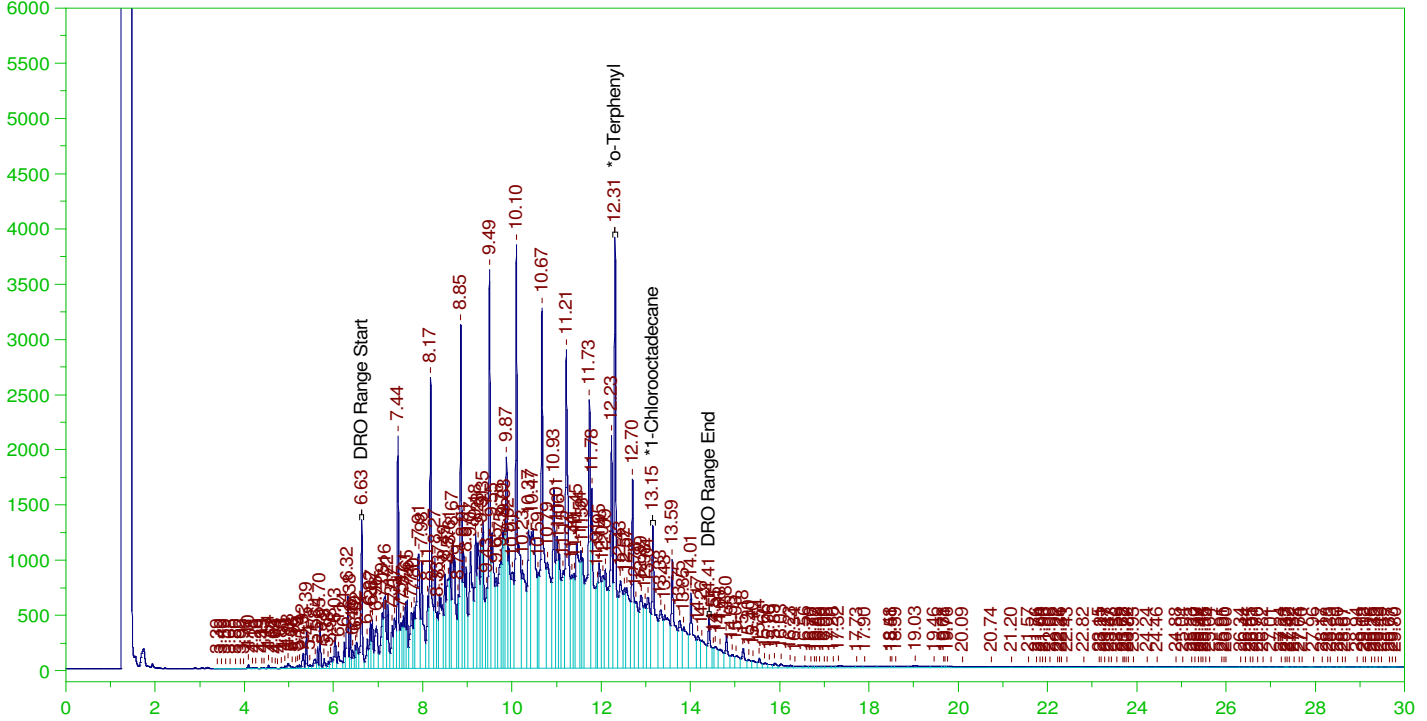
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.198	.152	76.62	-
*1-Chlorooctadecane	13.212	.198	.	.03	-
*#Triacontane	16.389	.198	.08	40.61	-

DRO Area:245882.4 DRO Amount: 7.450504E-03  
TEH Area:427576.2 TEH Amount: 1.295602E-02

Batch ID: 163074

B22011136-001DMS ;0124HP5 , SGT

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0021.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001DMS ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0021.RAW  
 Date & Time Acquired: 1/24/2022 10:47:53 PM  
 Method File: G:\Org\HP5\Methods\D3\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111Jc-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

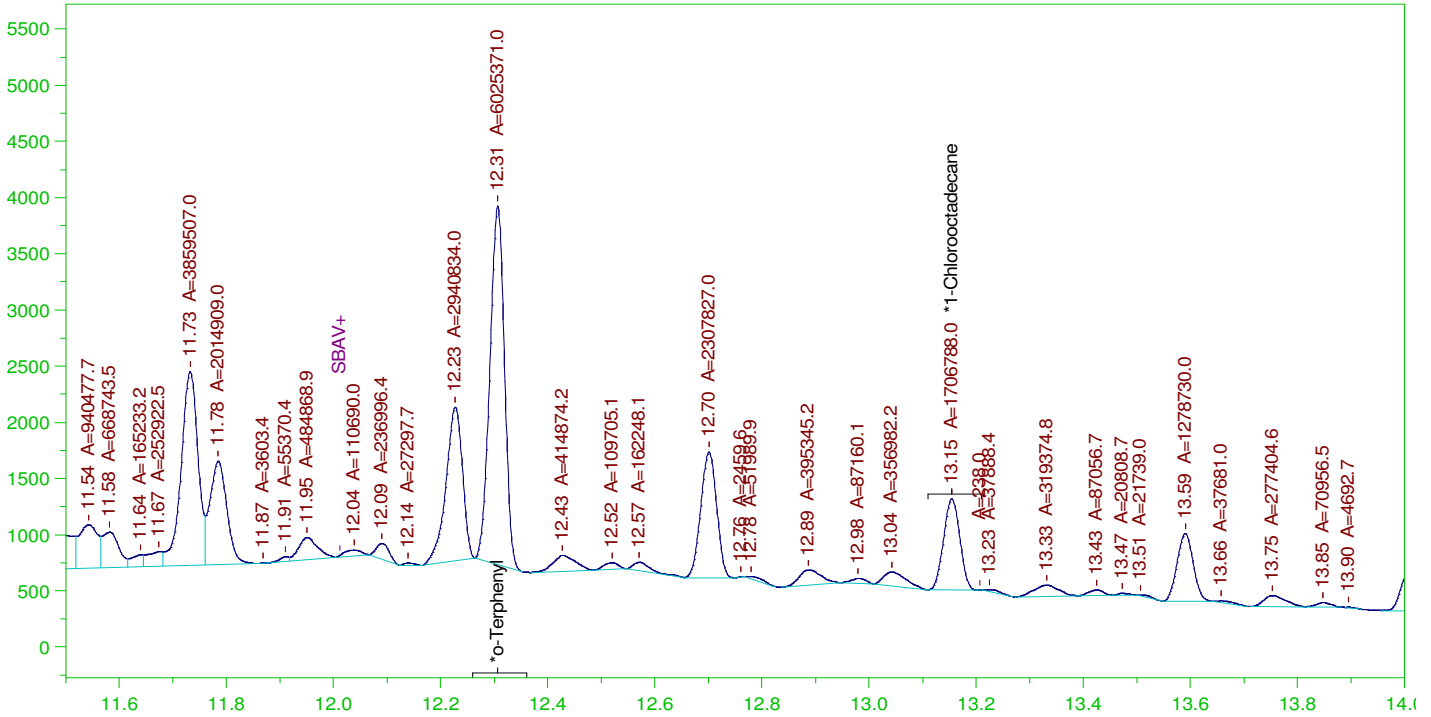
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.306	.198	.279	140.95	-
*1-Chlorooctadecane	13.154	.198	.171	86.3	-

DRO Area: 3.482082E+08 DRO Amount: 10.55109  
 TEH Area: 3.726887E+08 TEH Amount: 11.29288

Batch ID: 163074

B22011136-001DMS ;0124HP5 , SGT

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0021.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001DMS ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0021.RAW  
 Date & Time Acquired: 1/24/2022 10:47:53 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

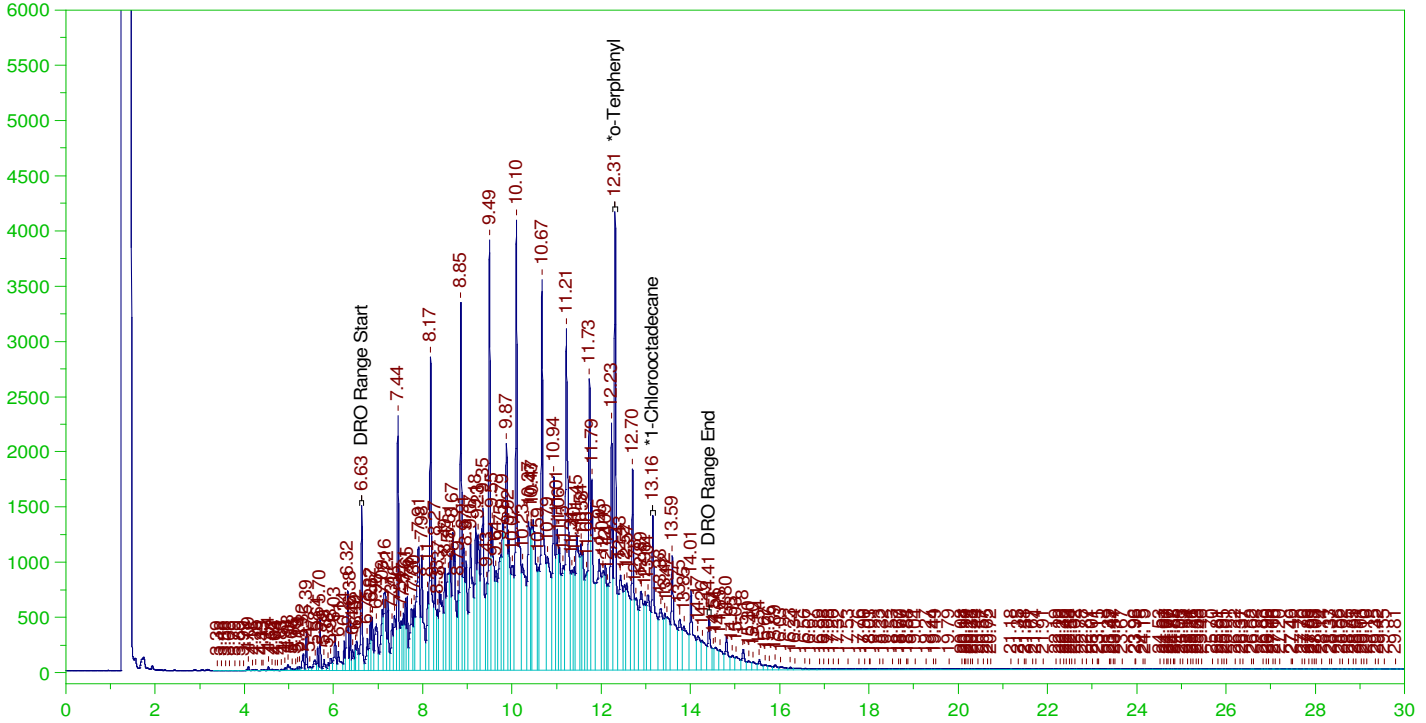
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.306	.198	.162	81.74
*1-Chlorooctadecane	13.154	.198	.046	23.15

DRO Area: 1.618862E+08 DRO Amount: 4.905327  
 TEH Area: 1.714913E+08 TEH Amount: 5.196373

Batch ID: 163074

B22011136-001DMSD ;0124HP5 , SGT

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0022.RAW



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

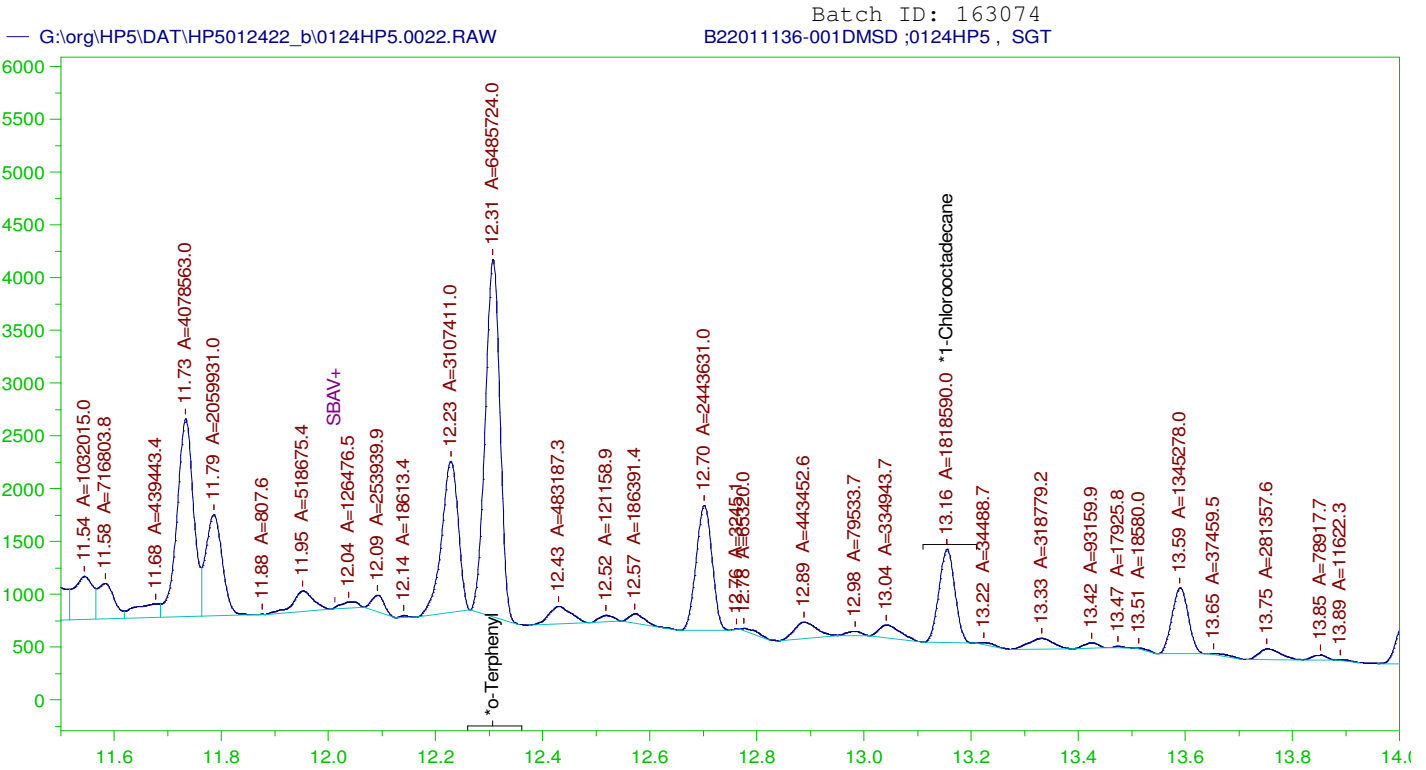
Sample Name: B22011136-001DMSD ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0022.RAW  
 Date & Time Acquired: 1/24/2022 11:30:31 PM  
 Method File: G:\Org\HP5\Methods\D3\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111Jc-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.307	.198	.304	153.38	-
*1-Chlorooctadecane	13.155	.198	.18	90.87	-

DRO Area: 3.757989E+08 DRO Amount: 11.38712  
 TEH Area: 4.004109E+08 TEH Amount: 12.13289



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

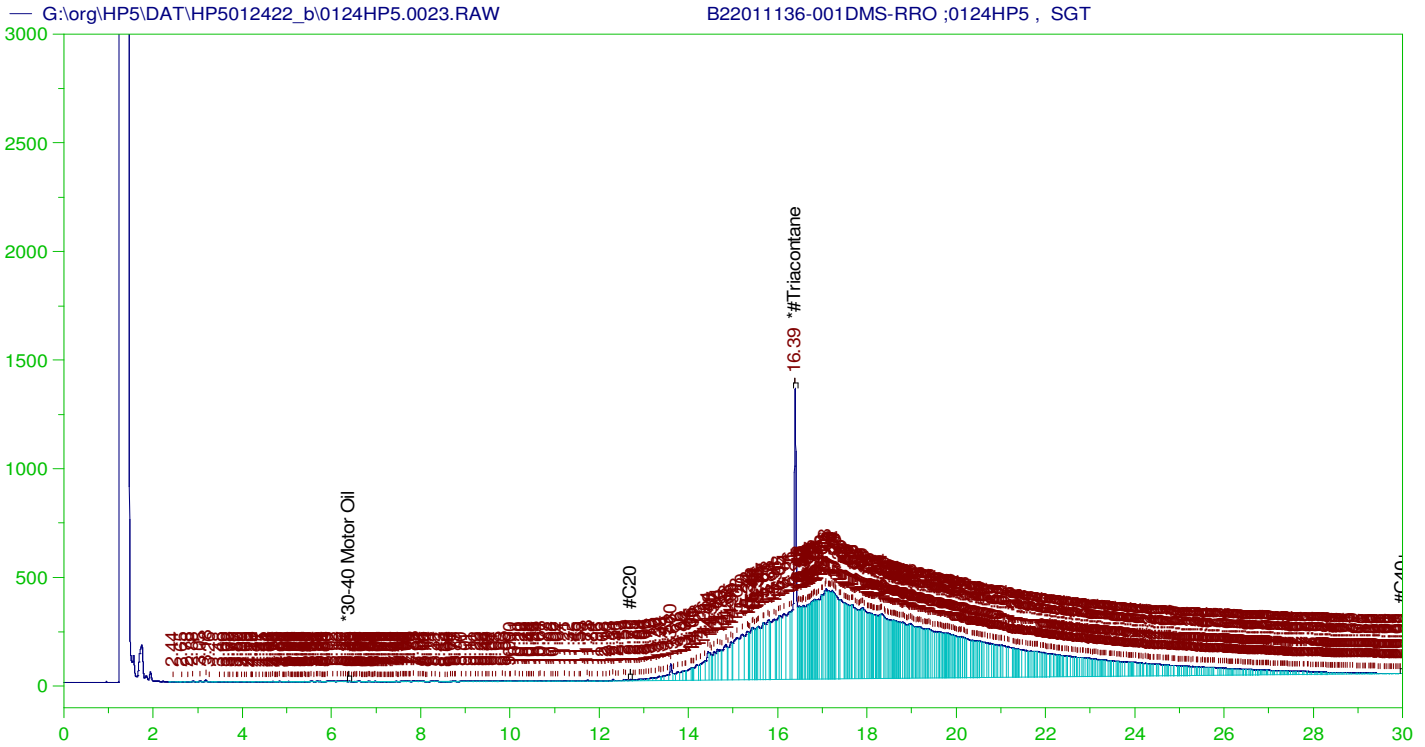
Sample Name: B22011136-001DMSD ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0022.RAW  
 Date & Time Acquired: 1/24/2022 11:30:31 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	.198	.174	87.98
*1-Chlorooctadecane	13.155	.198	.049	24.67

DRO Area: 1.74125E+08 DRO Amount: 5.276177  
 TEH Area: 1.84695E+08 TEH Amount: 5.59646



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011136-001DMS-RRO ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0023.RAW  
 Date & Time Acquired: 1/25/2022 12:13:12 AM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111Bc.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

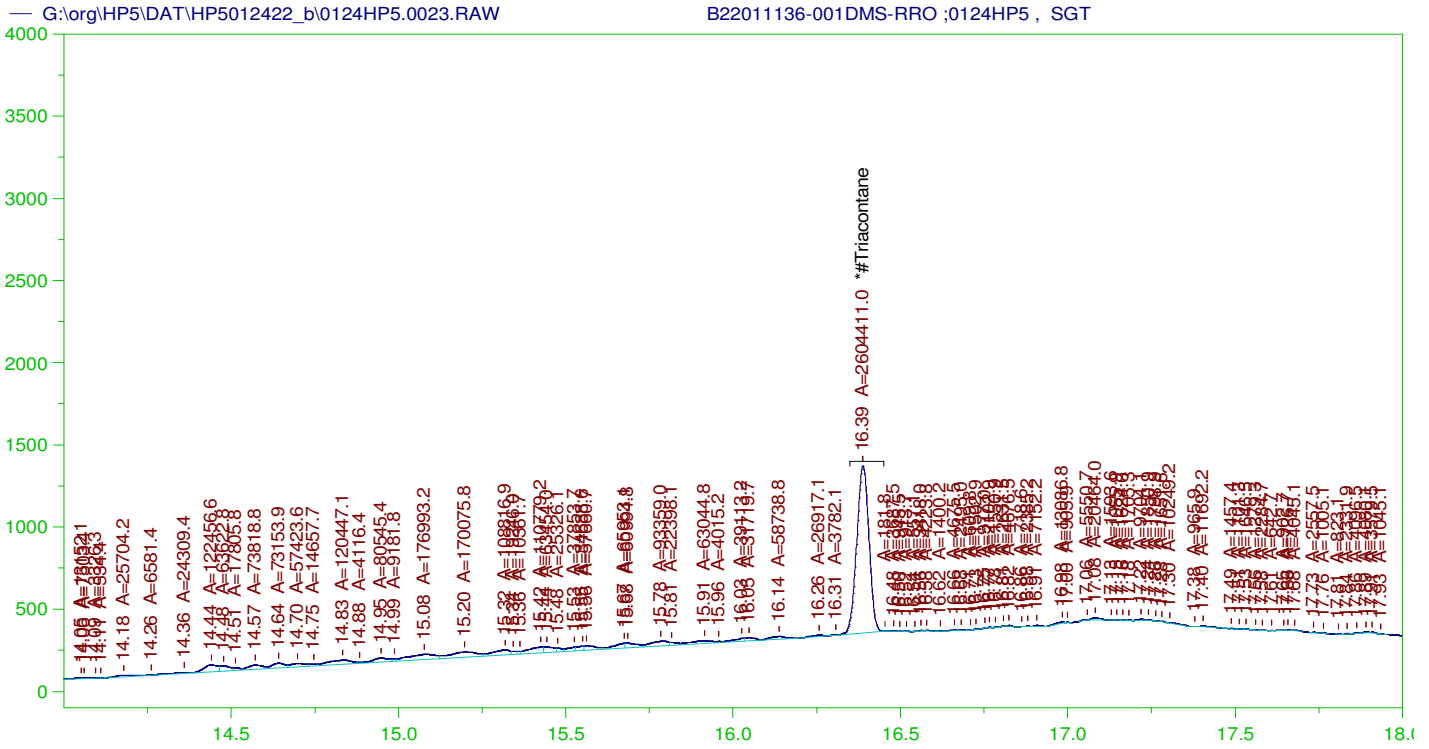
Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.388	.5	.175	34.99

~~RRO~~ TEH(Oil Range) Area:1.274258E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4.82225

AMN 02/15/2022





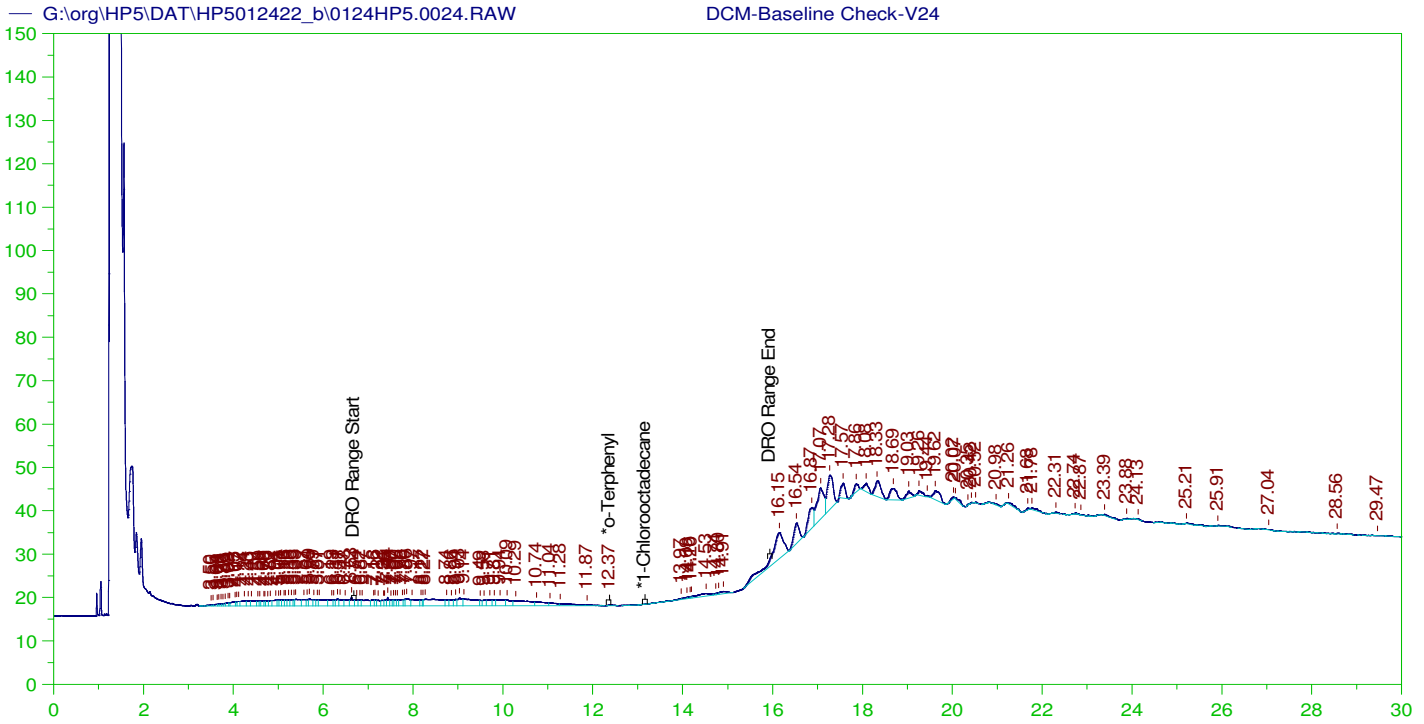
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011136-001DMS-RRO ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0023.RAW  
 Date & Time Acquired: 1/25/2022 12:13:12 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.388	.5	.088	17.58 -

RRO Area:2773525 RRO AMOUNT: 0.1049601



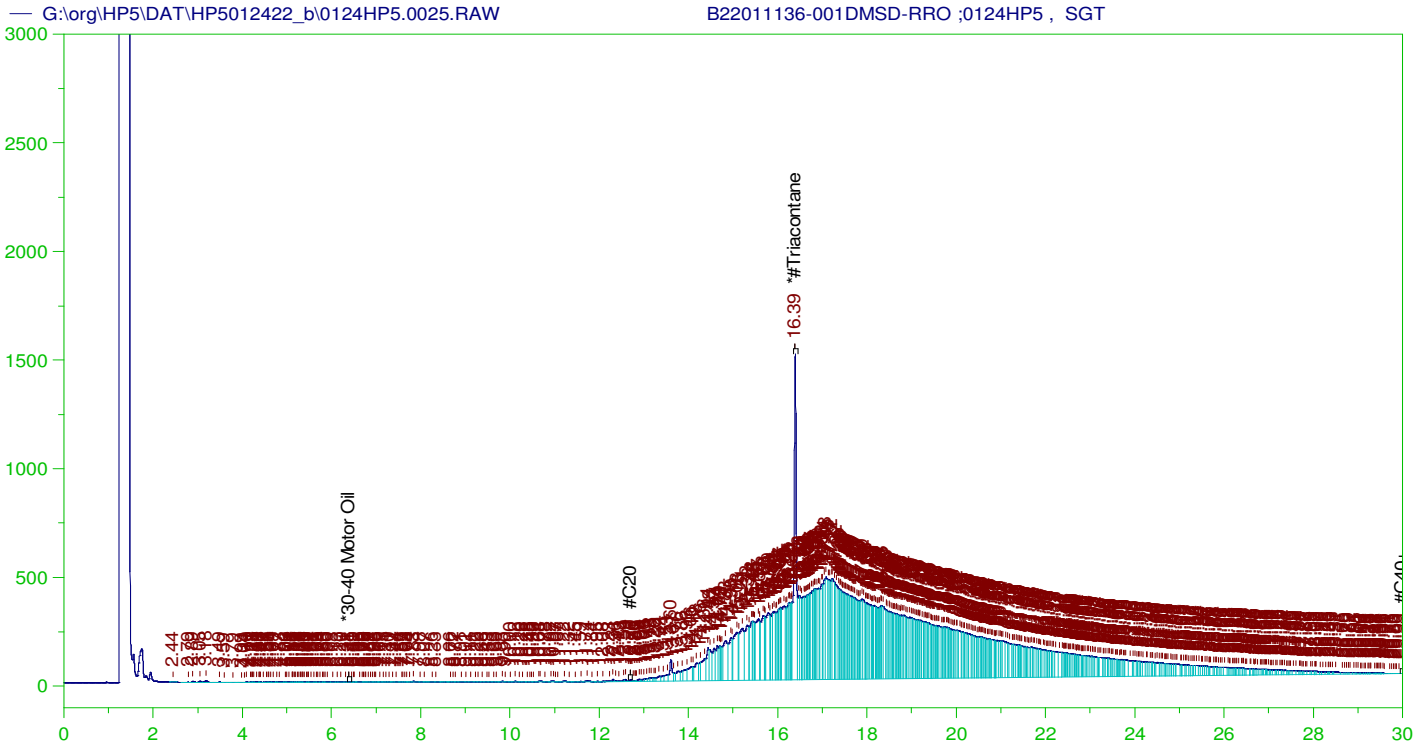
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V24  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0024.RAW  
 Date & Time Acquired: 1/25/2022 12:55:48 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.375	200.	.033	.02
*1-Chlorooctadecane	29.931	200.	.	.

DRO Area:379591.3 DRO Amount: 11.61705  
 TEH Area:1160877 TEH Amount: 35.52759



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

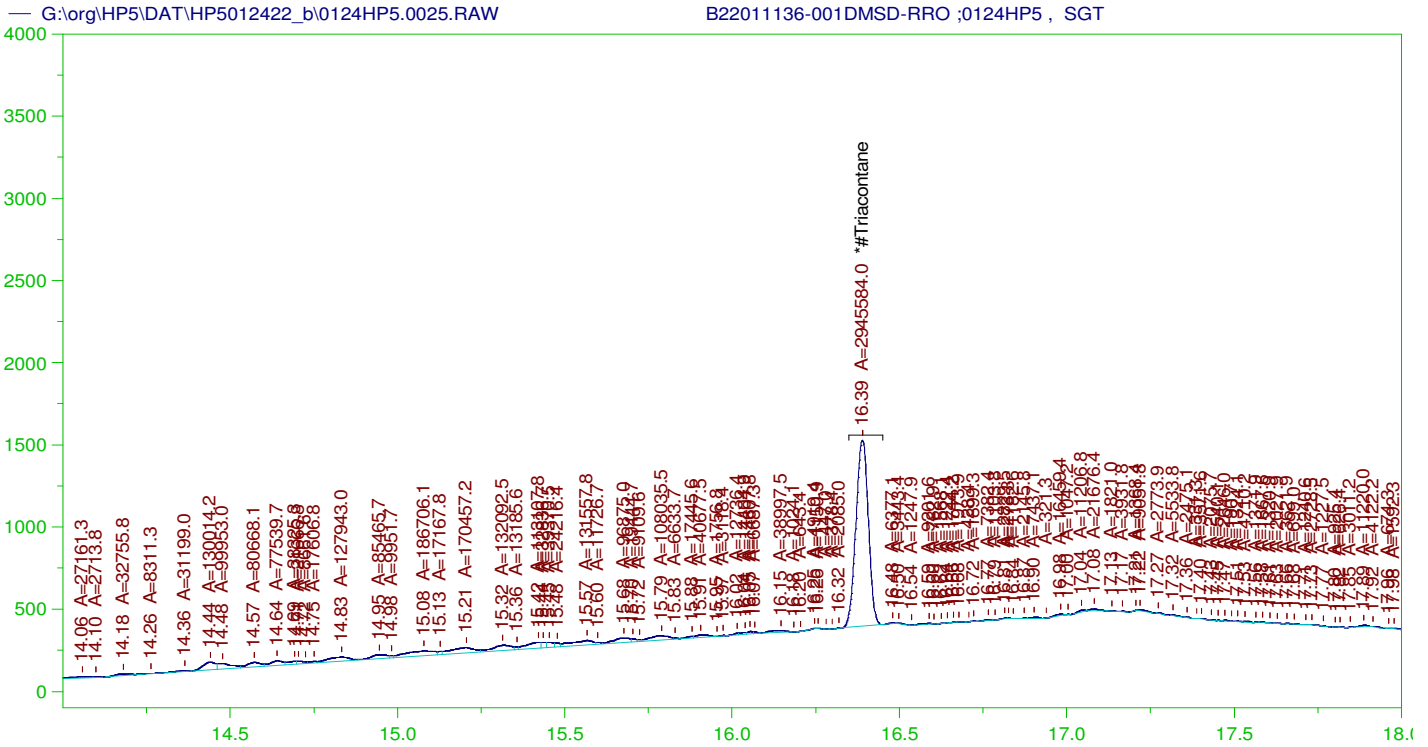
Sample Name: B22011136-001DMSD-RRO ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0025.RAW  
 Date & Time Acquired: 1/25/2022 1:38:29 AM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111Bc.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.389	.485	.183	37.66	-

~~RRO~~ TEH(Oil Range) Area:1.446782E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 5.315672

AMN 02/15/2022



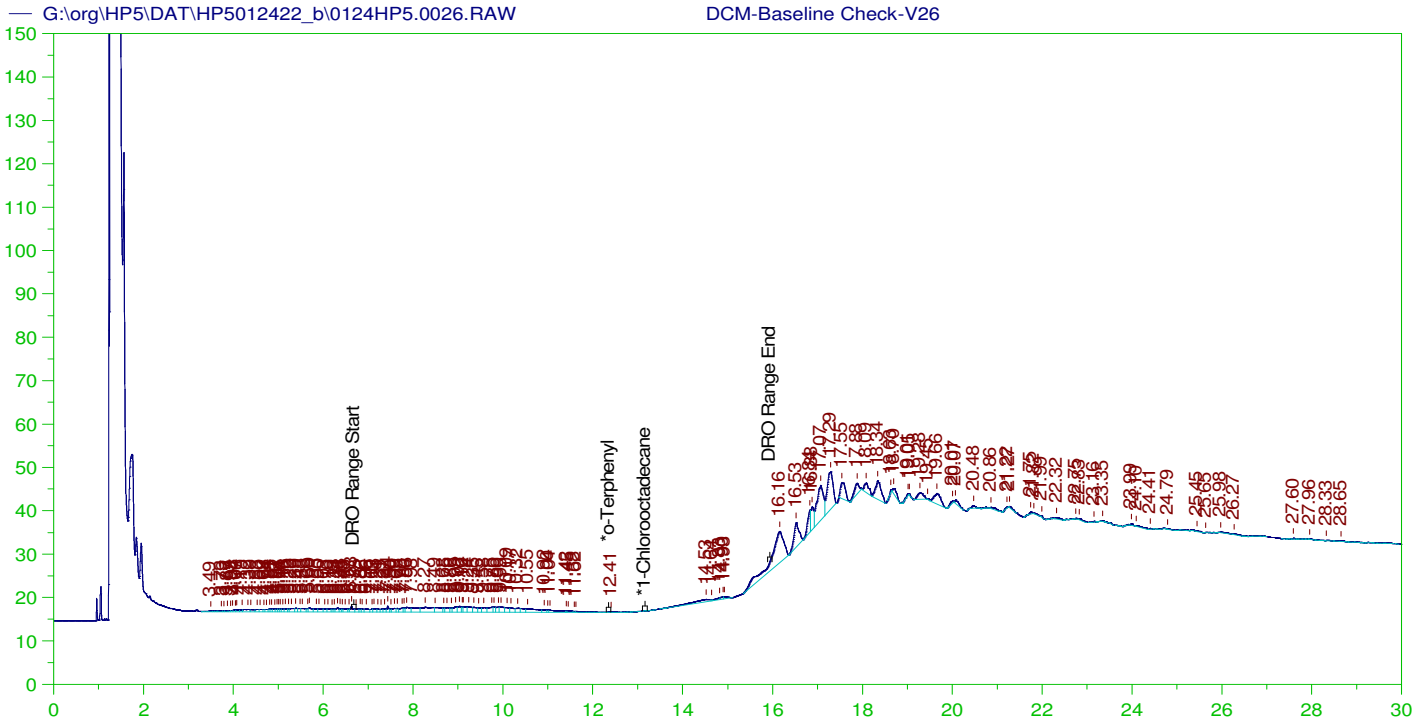
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011136-001DMSD-RRO ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0025.RAW  
 Date & Time Acquired: 1/25/2022 1:38:29 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.389	.485	.096	19.88

RRO Area:2910224 RRO AMOUNT: 0.1069256



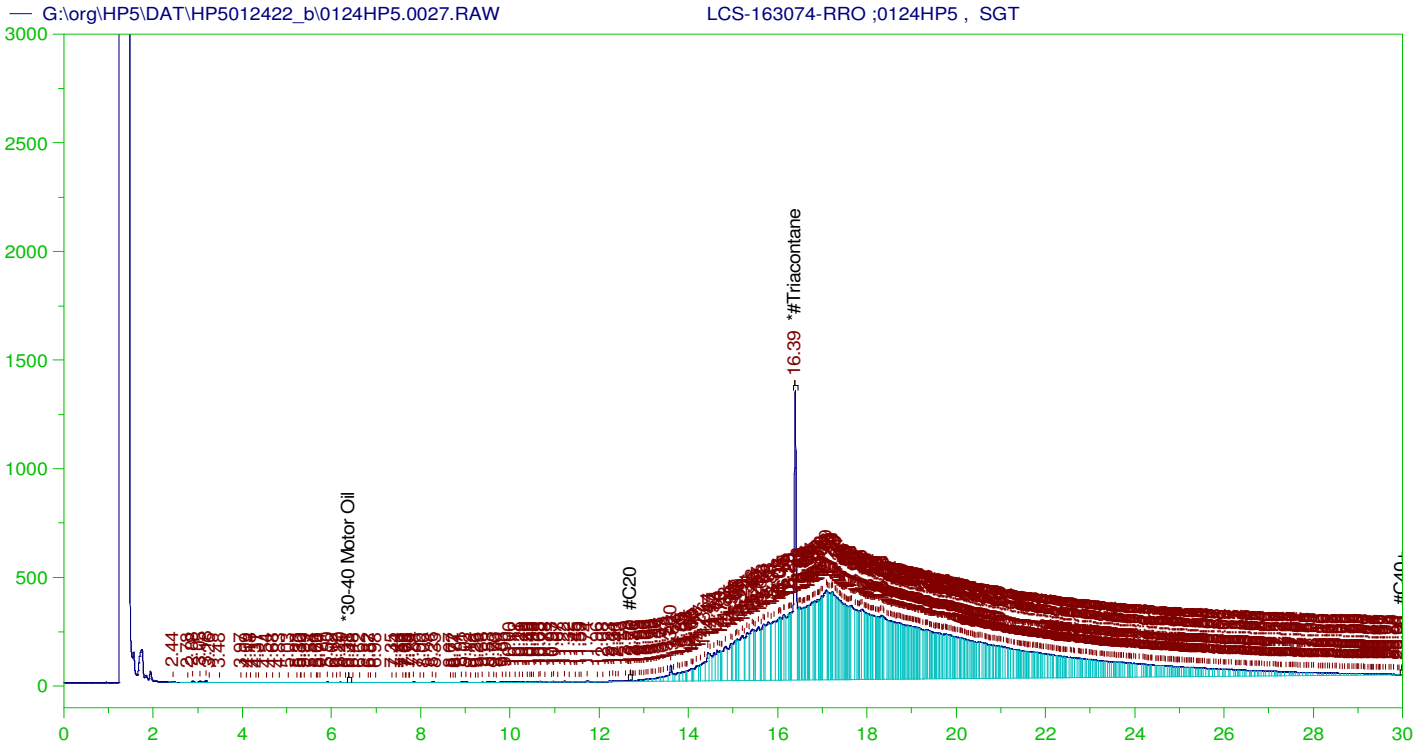
**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V26  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0026.RAW  
 Date & Time Acquired: 1/25/2022 2:21:09 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.882	200.	.	-
*1-Chlorooctadecane	29.882	200.	.	-

DRO Area:271141 DRO Amount: 8.298026  
 TEH Area:1006405 TEH Amount: 30.80013



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

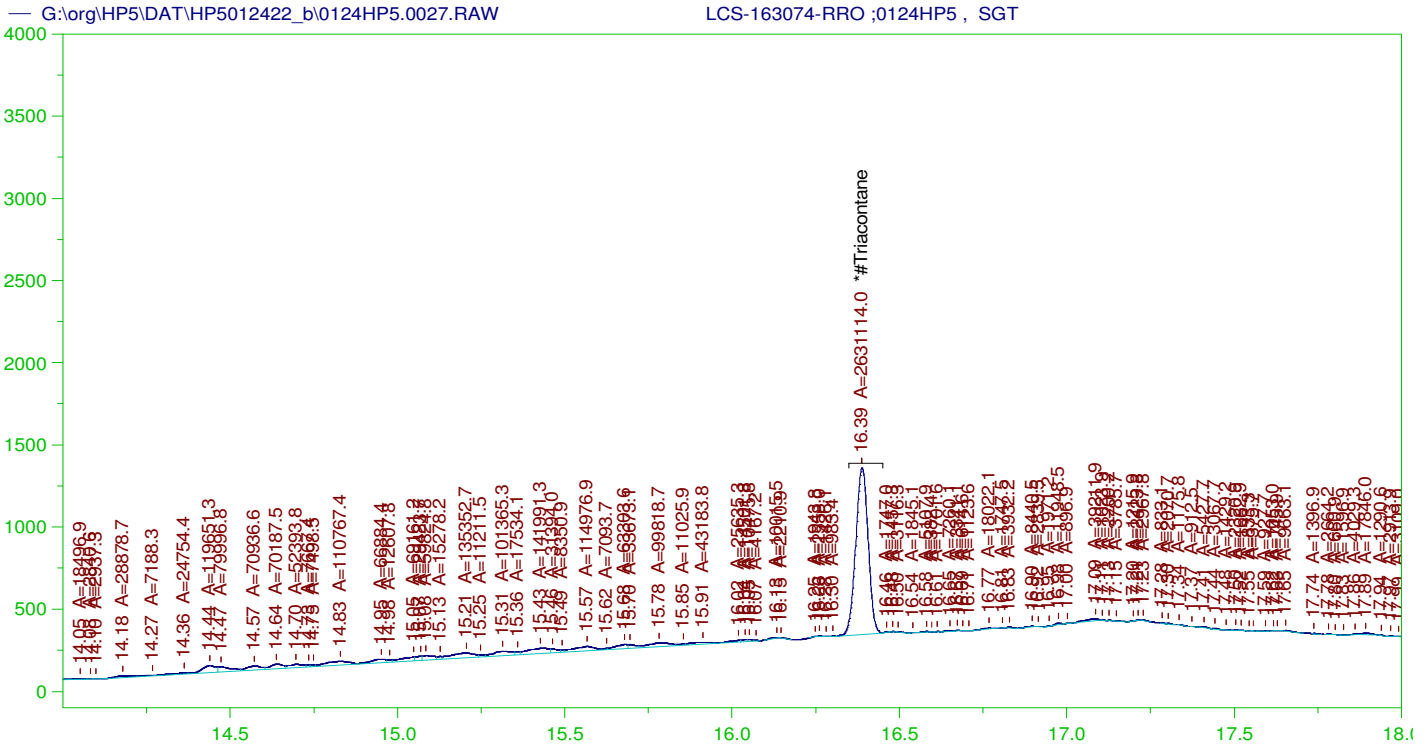
Sample Name: LCS-163074-RRO ;0124HP5 , SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0027.RAW  
 Date & Time Acquired: 1/25/2022 3:03:49 AM  
 Method File: G:\Org\HP5\Methods\D3\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111Bc.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.388	.5	.176	35.24

RRO TEH(Oil Range) Area:1.261086E+08 RRO TEH(Oil Range) AMOUNT: 4.772402

AMN 02/15/2022



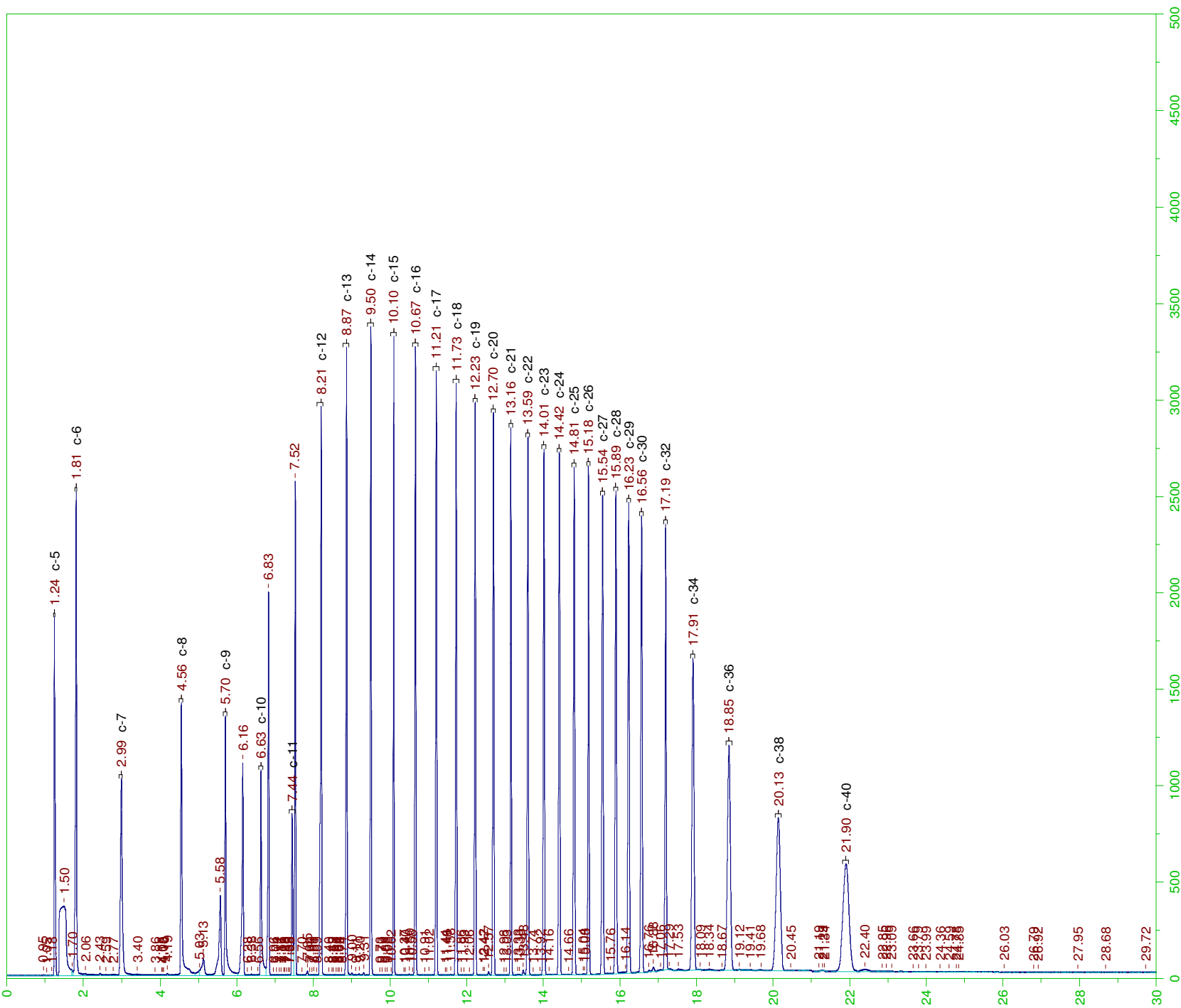
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: LCS-163074-RRO ;0124HP5 , SGT  
 Raw File: G:\Org\HP5\DAT\HP5012422\_b\0124HP5.0027.RAW  
 Date & Time Acquired: 1/25/2022 3:03:49 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

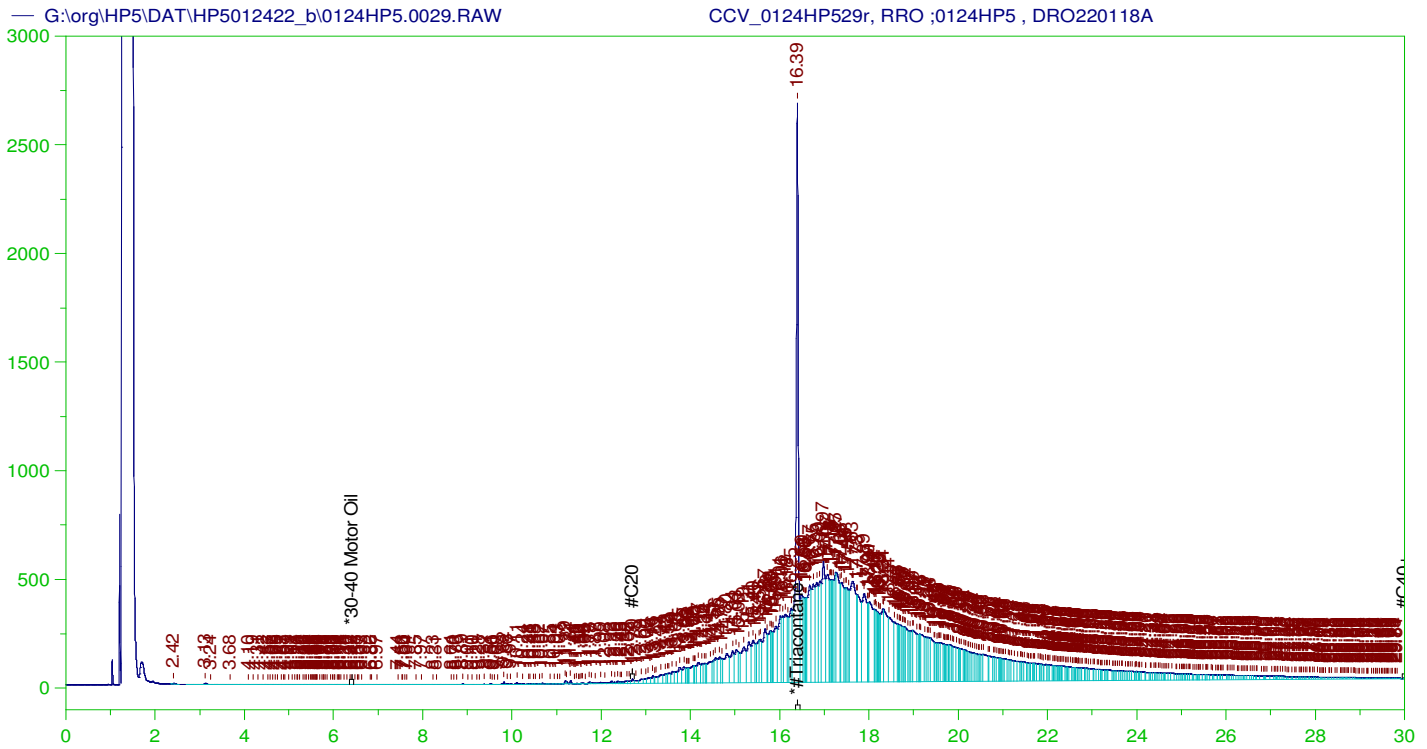
Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.388	.5	.089	17.76 -

RRO Area:2501881 RRO AMOUNT: 9.468018E-02







**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP529r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0029.RAW  
 Date & Time Acquired: 1/25/2022 4:29:10 AM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.391	500.	325.82	65.16	-

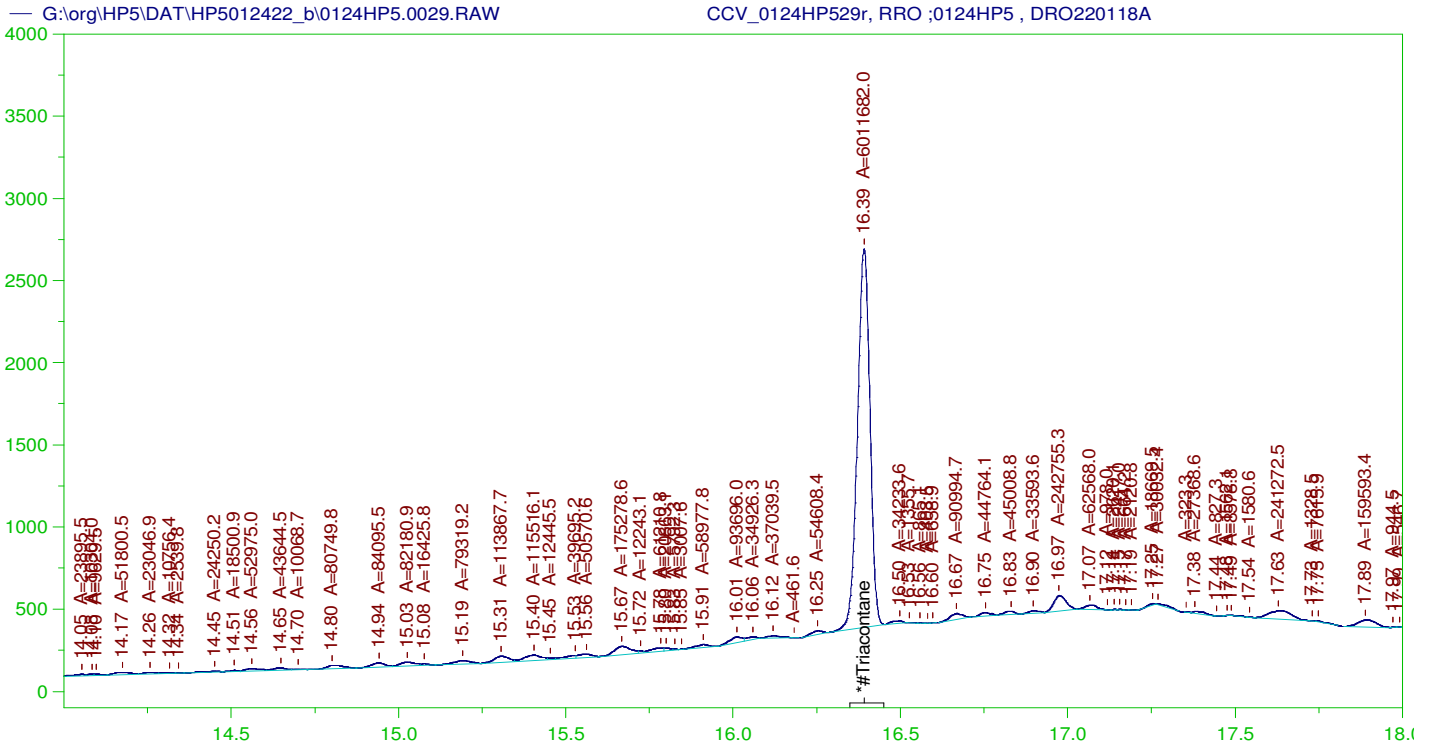
~~RRO~~ TEH(Oil Range) Area:1.198023E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4533.75

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0029.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.037	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.391	200.	325.82	162.91	75-125

AMN 02/15/202



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP529r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0029.RAW  
 Date & Time Acquired: 1/25/2022 4:29:10 AM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.391	500.	202.85	40.57	-

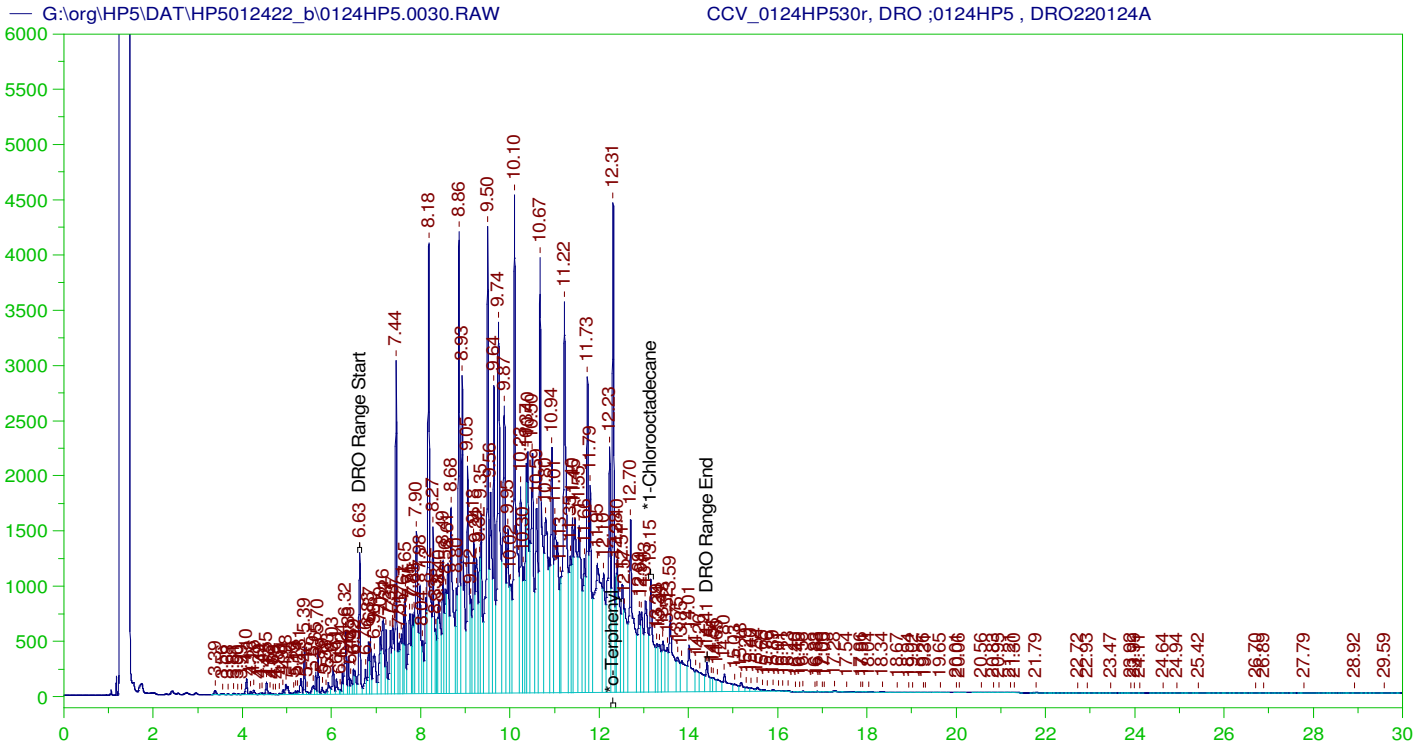
RRO Area:3206721 RRO AMOUNT: 121.3538

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0029.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.037	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.391	200.	202.85	101.43	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP530r, DRO ;0124HP5 , DRO220124A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0030.RAW  
 Date & Time Acquired: 1/25/2022 5:11:45 AM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

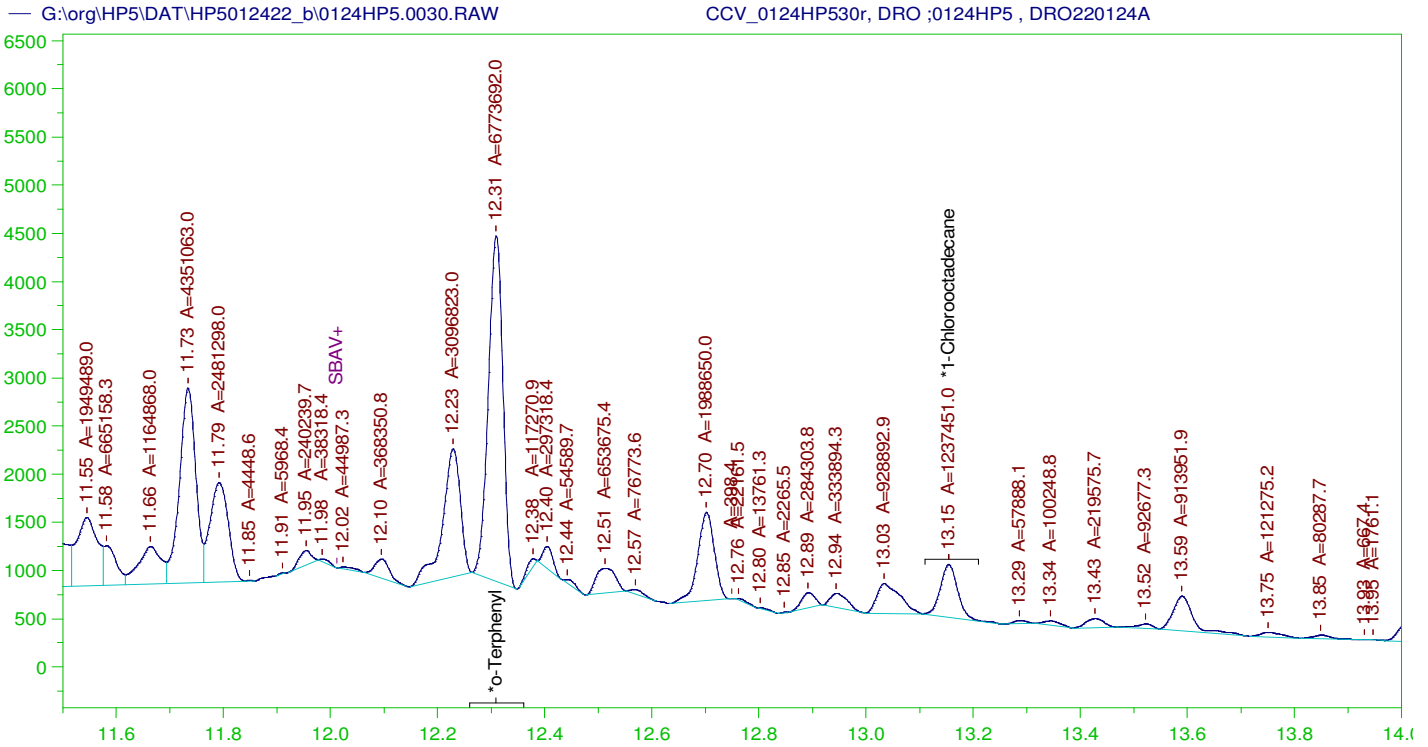
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.309	200.	299.58	149.79
*1-Chlorooctadecane	13.154	200.	142.564	71.28

DRO Area: 4.37126E+08 DRO Amount: 13377.85  
 TEH Area: 4.52668E+08 TEH Amount: 13853.5

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0030.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	13853.5	92.36	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.309	200.	299.58	149.79	85-115
*1-Chlorooctadecane	13.154	200.	142.564	71.28	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP530r, DRO ;0124HP5 , DRO220124A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0030.RAW  
 Date & Time Acquired: 1/25/2022 5:11:45 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

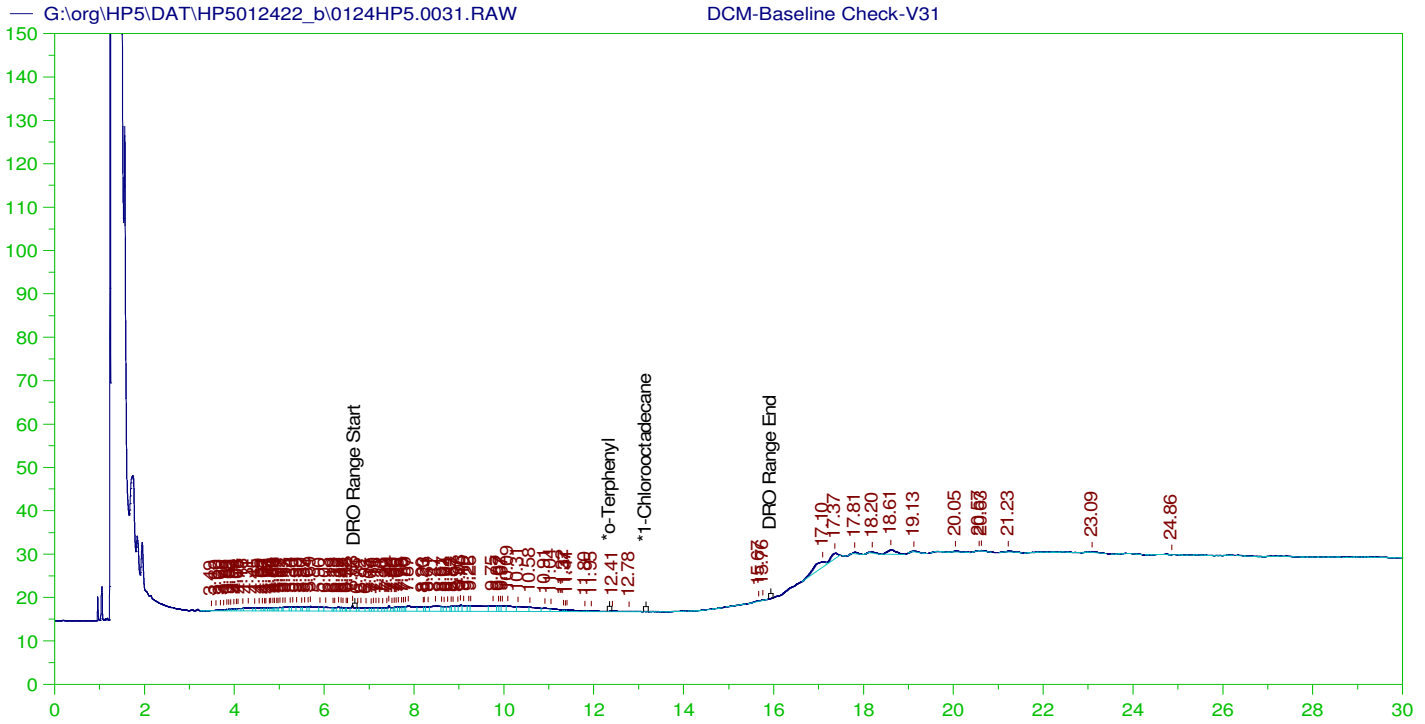
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.309	200.	183.779	91.89	-
*1-Chlorooctadecane	13.154	200.	33.574	16.79	-

DRO Area: 2.269329E+08 DRO Amount: 6945.078  
 TEH Area: 2.369588E+08 TEH Amount: 7251.911

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0030.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7251.91	48.35	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.309	200.	183.779	91.89	85-115
*1-Chlorooctadecane	13.154	200.	33.574	16.79	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

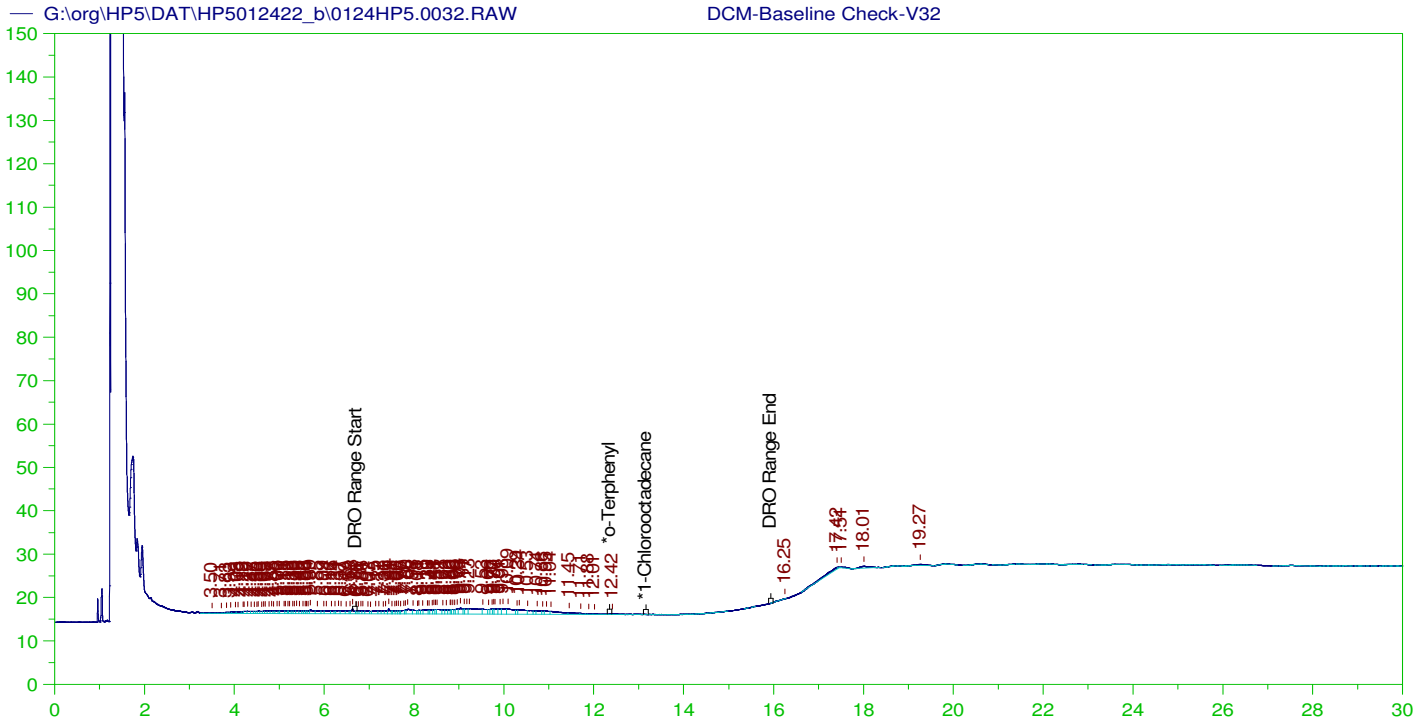
Sample Name: DCM-Baseline Check-V31  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0031.RAW  
 Date & Time Acquired: 1/25/2022 5:54:25 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.96	200.	.	-
*1-Chlorooctadecane	29.96	200.	.	-

DRO Area: 297589 DRO Amount: 9.107445  
 TEH Area: 516095.7 TEH Amount: 15.79464



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V32  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0032.RAW  
 Date & Time Acquired: 1/25/2022 6:37:01 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.63 to 15.99

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

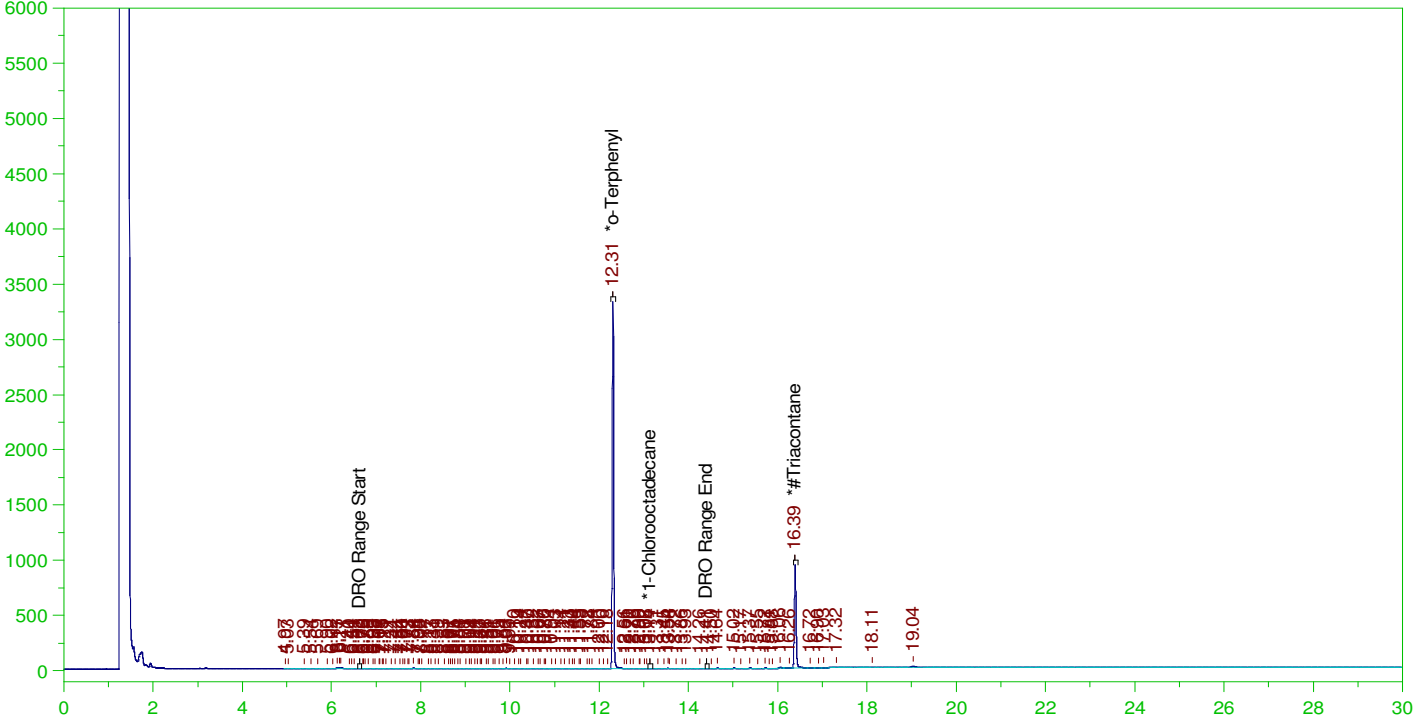
DRO Area:256509.5 DRO Amount: 7.850244  
 TEH Area:390082.3 TEH Amount: 11.93812

ERH2450 (OWDFMW05A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0033.RAW

B22011126-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011126-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0033.RAW  
 Date & Time Acquired: 1/25/2022 7:19:39 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.19	.178	93.59	-
*1-Chlorooctadecane	13.136	.19	.	.1	-
*#Triacontane	16.387	.19	.088	46.29	-

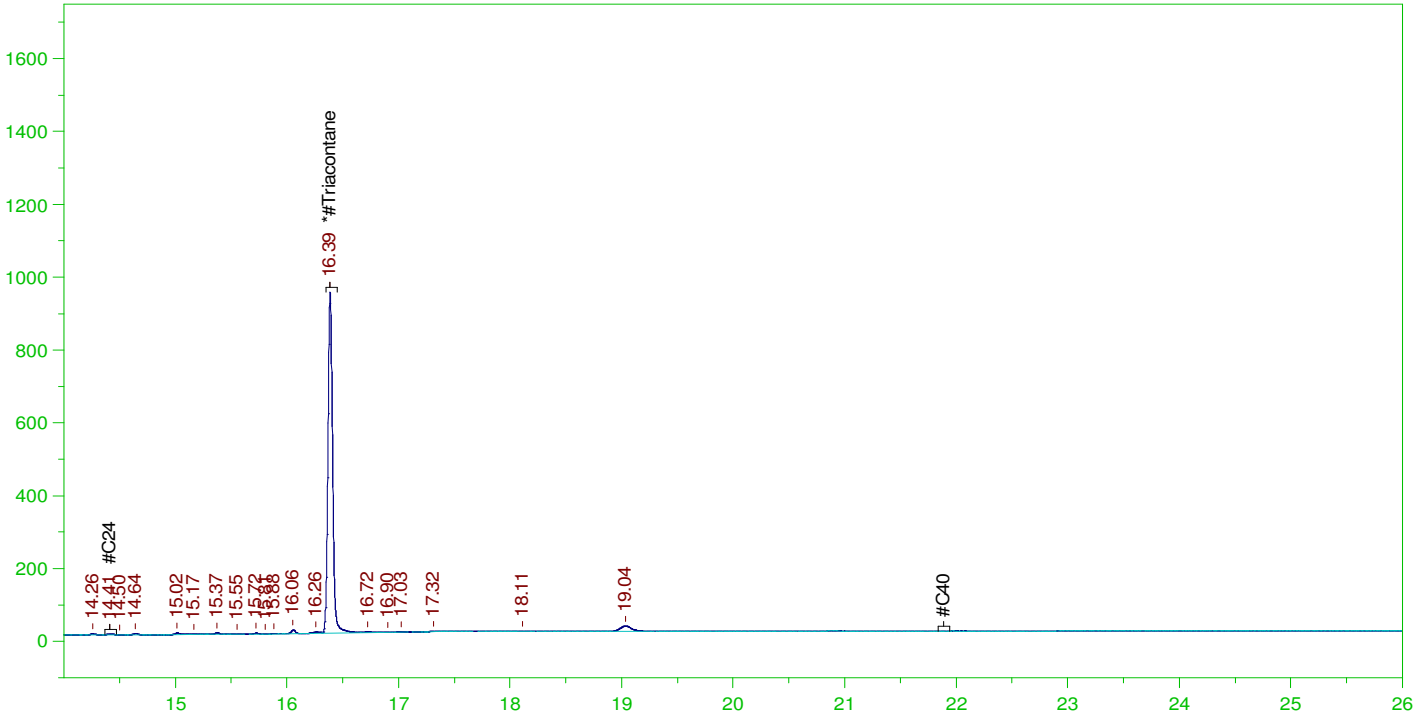
DRO Area: 396949 DRO Amount: 1.156978E-02  
 TEH Area: 721458.3 TEH Amount: 2.102817E-02

ERH2450 (OWDFMW05A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0033.RAW

B22011126-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011126-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0033.RAW  
 Date & Time Acquired: 1/25/2022 7:19:39 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.387	.476	.088	18.51

RRO Area:214743.8 RRO AMOUNT: 7.739694E-03

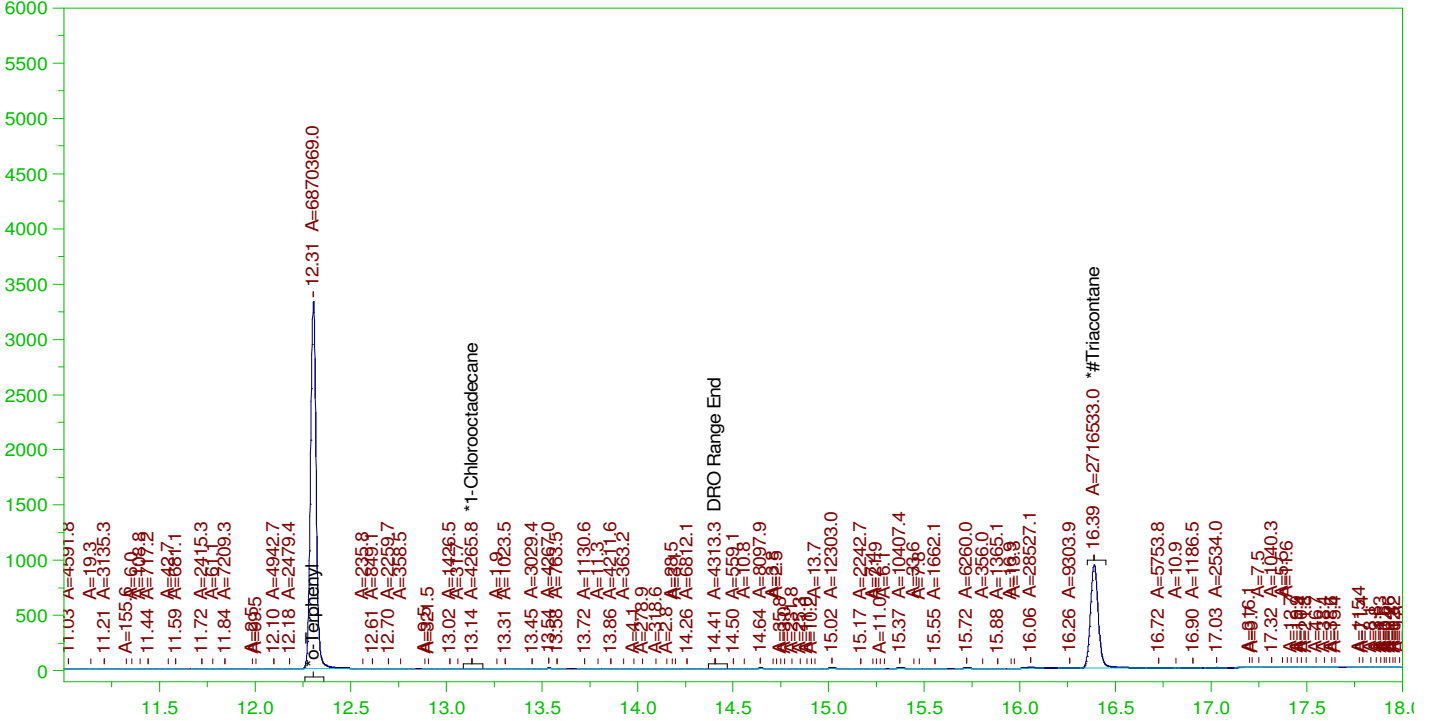


ERH2450 (OWDFMW05A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0033.RAW

B22011126-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

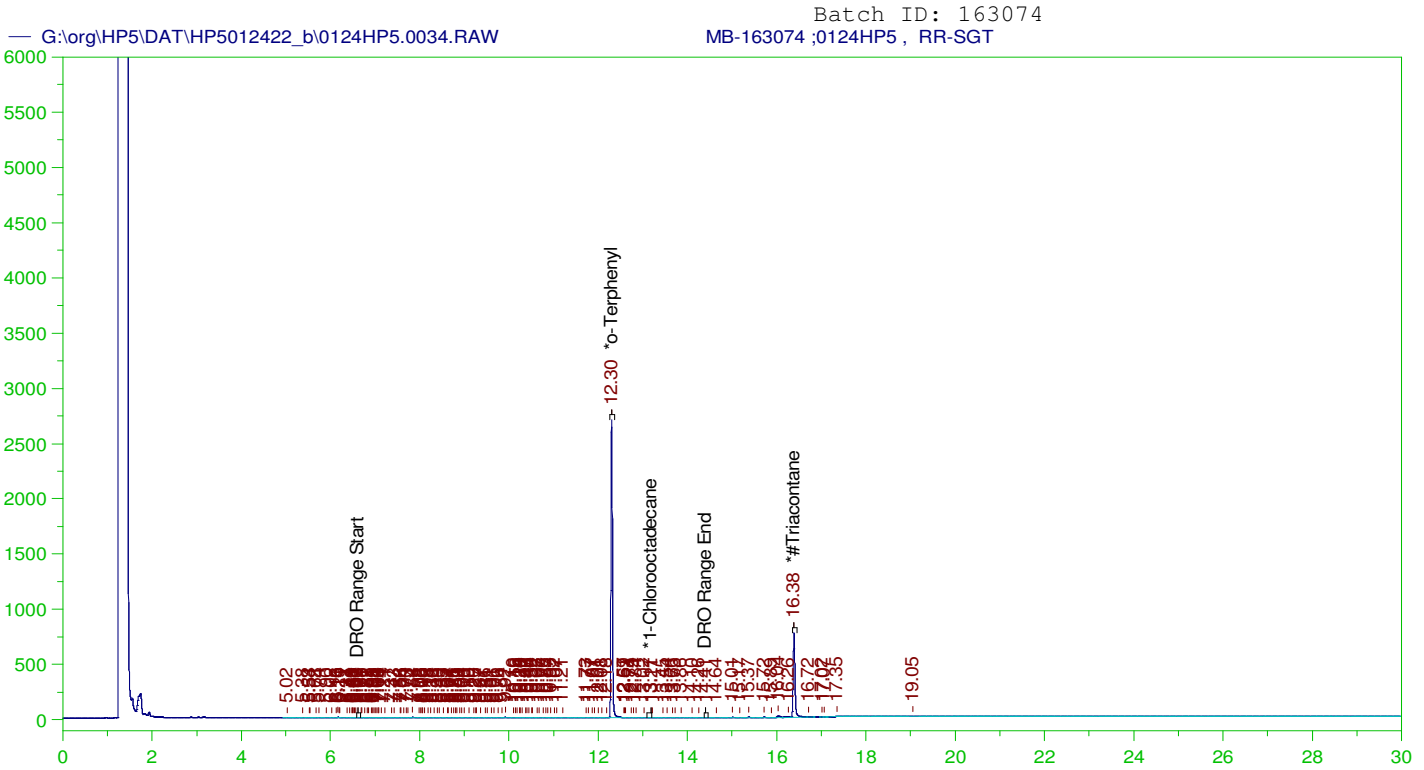
Sample Name: B22011126-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0033.RAW  
 Date & Time Acquired: 1/25/2022 7:19:39 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO2201111JC-C24-T.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.19	.178	93.2	-
*1-Chlorooctadecane	13.136	.19	.	.06	-
*#Triacontane	16.387	.19	.087	45.83	-

DRO Area:255910.1 DRO Amount: 7.458952E-03  
 TEH Area:587674.6 TEH Amount: 1.712881E-02



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-163074 ;0124HP5 , RR-SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0034.RAW  
 Date & Time Acquired: 1/25/2022 8:02:01 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

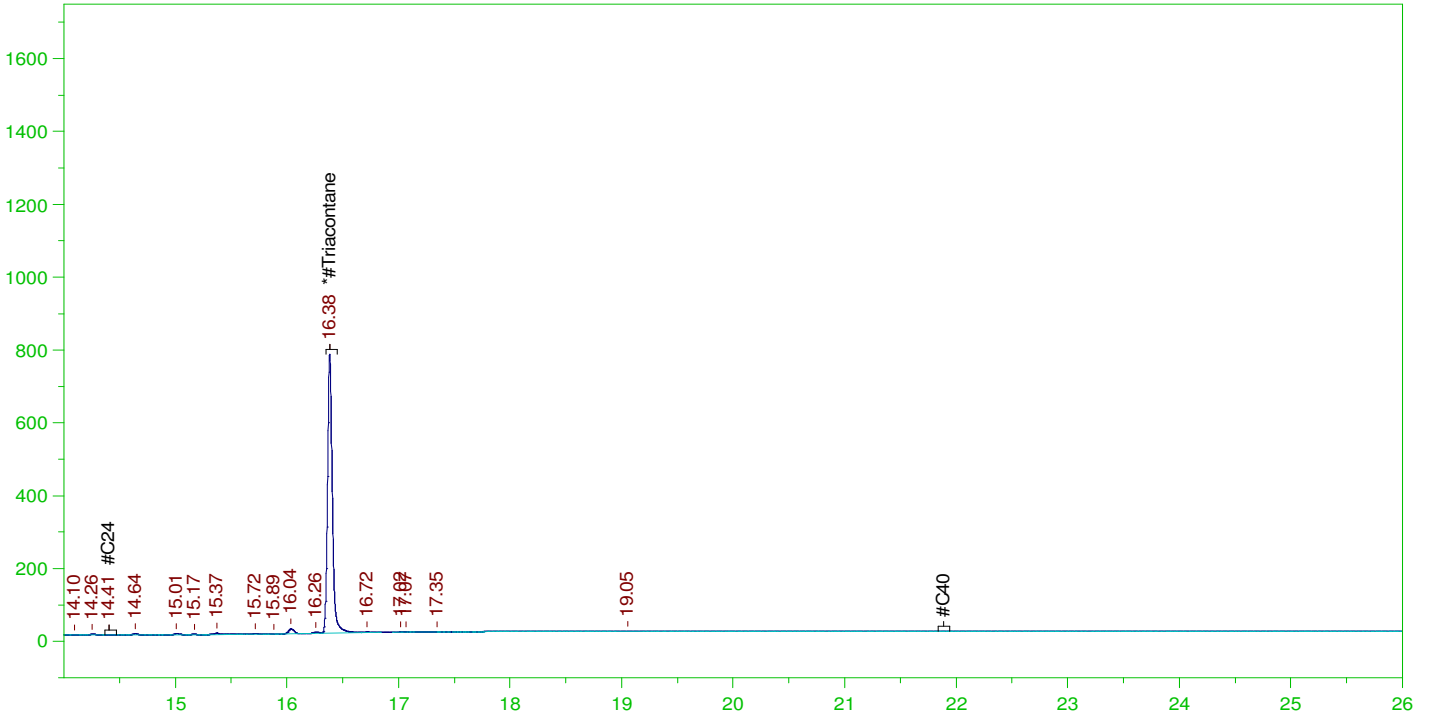
Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.299	.2	.159	79.33	-
*1-Chlorooctadecane	13.175	.2	.01		-
*#Triacontane	16.383	.2	.078	39.05	-

DRO Area: 269204.4 DRO Amount: 8.238759E-03  
 TEH Area: 453819.4 TEH Amount: 1.388874E-02

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0034.RAW

MB-163074 ;0124HP5 , RR-SGT



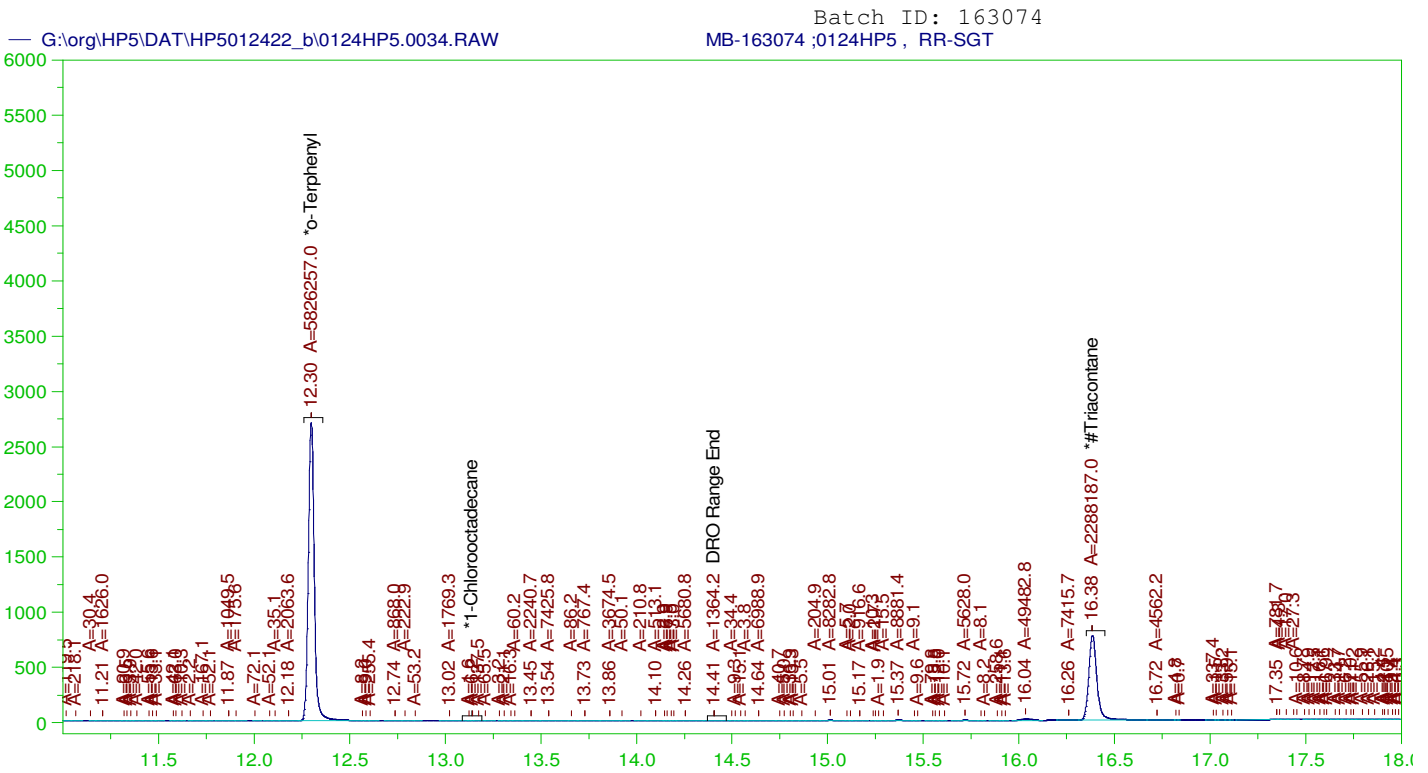
**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: MB-163074 ;0124HP5 , RR-SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0034.RAW  
 Date & Time Acquired: 1/25/2022 8:02:01 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.383	.5	.078	15.62

RRO Area:118338.4 RRO AMOUNT: 4.478352E-03



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MB-163074 ;0124HP5 , RR-SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0034.RAW  
 Date & Time Acquired: 1/25/2022 8:02:01 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

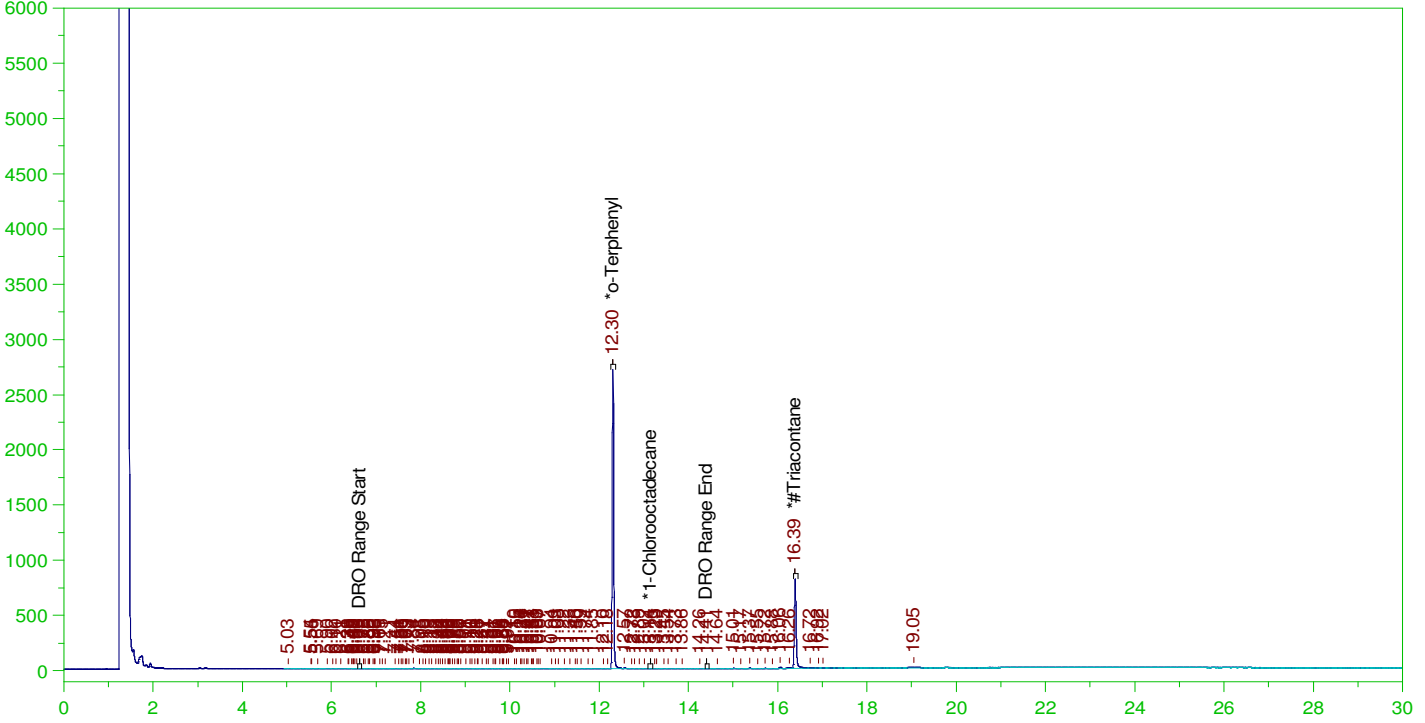
Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.299	.2	.158	79.04
*1-Chlorooctadecane	29.964	.2	.	-
*#Triacontane	16.383	.2	.077	38.6

DRO Area:214237.3 DRO Amount: 6.55654E-03  
 TEH Area:481108 TEH Amount: 1.472388E-02

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012422\_b\0124HP5.0035.RAW

Batch ID: 163074  
B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, RR-SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, RR-SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0035.RAW  
 Date & Time Acquired: 1/25/2022 8:44:19 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

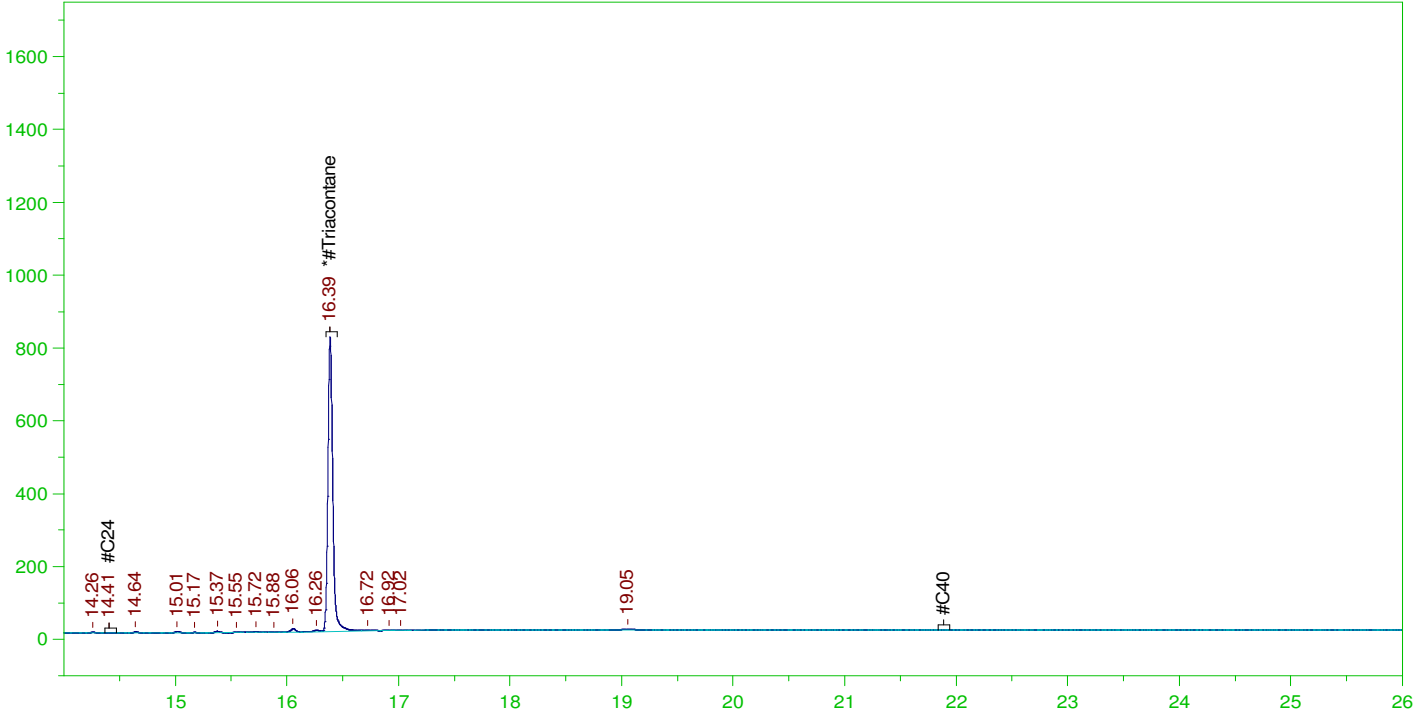
Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.304	.198	.156	78.69	-
*1-Chlorooctadecane	13.145	.198	.	.04	-
*#Triacontane	16.387	.198	.082	41.49	-

DRO Area:307471.8 DRO Amount: 9.316731E-03  
 TEH Area:468380.3 TEH Amount: 1.419243E-02

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012422\_b\0124HP5.0035.RAW

Batch ID: 163074  
B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, RR-SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, RR-SGT  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0035.RAW  
Date & Time Acquired: 1/25/2022 8:44:19 AM  
Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

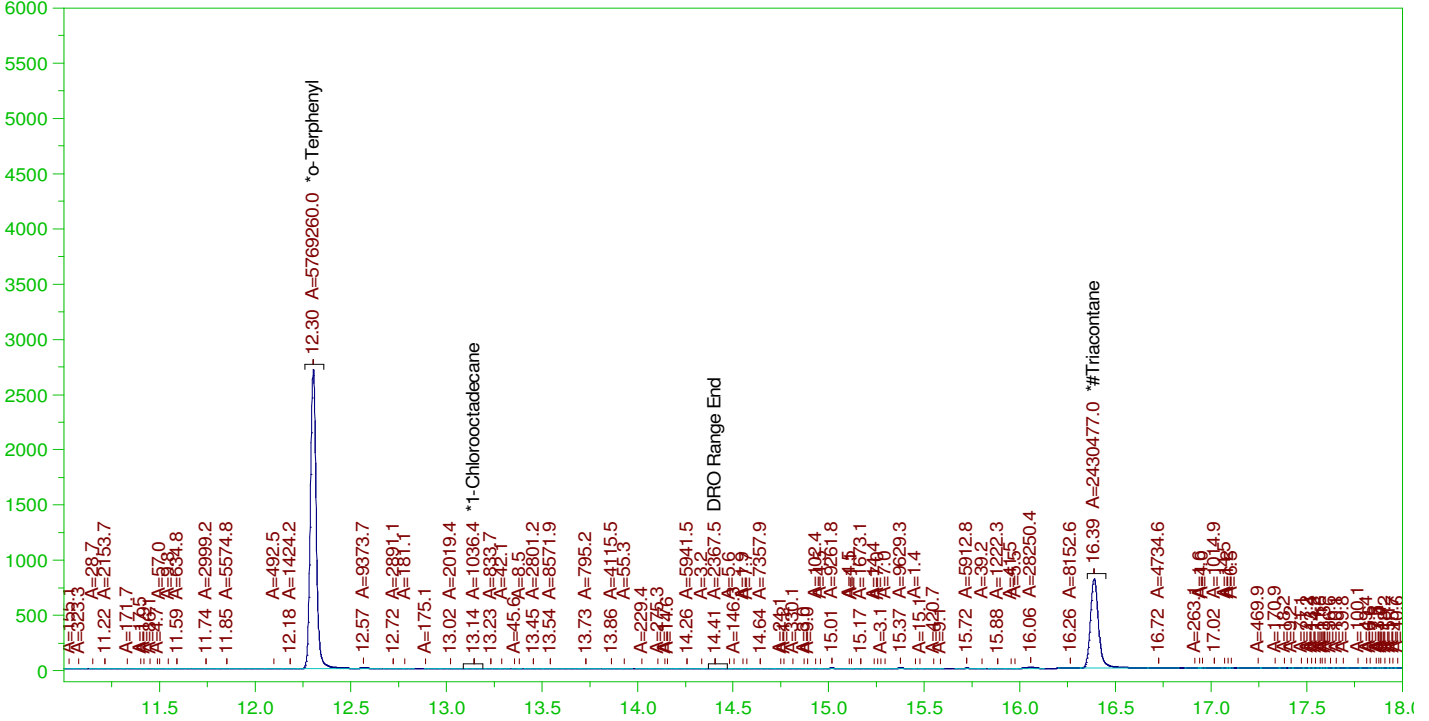
Mean RF for for Residual Range Organics Calculations: 26424.55  
Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.387	.495	.082	16.6	-

RRO Area:110285.3 RRO AMOUNT: 4.132268E-03

ERH2433 (RHMW05 w/MS/MSD volumes)  
G:\org\HP5\DAT\HP5012422\_b\0124HP5.0035.RAW

Batch ID: 163074  
B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, RR-SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011136-001D ;0124HP5 , \$HC-8015-DRO-W, RR-SGT  
Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0035.RAW  
Date & Time Acquired: 1/25/2022 8:44:19 AM  
Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
Sample Weight: 1010 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.304	.198	.155	78.26	-
*1-Chlorooctadecane	13.145	.198	.	.01	-
*#Triacontane	16.387	.198	.081	41.01	-

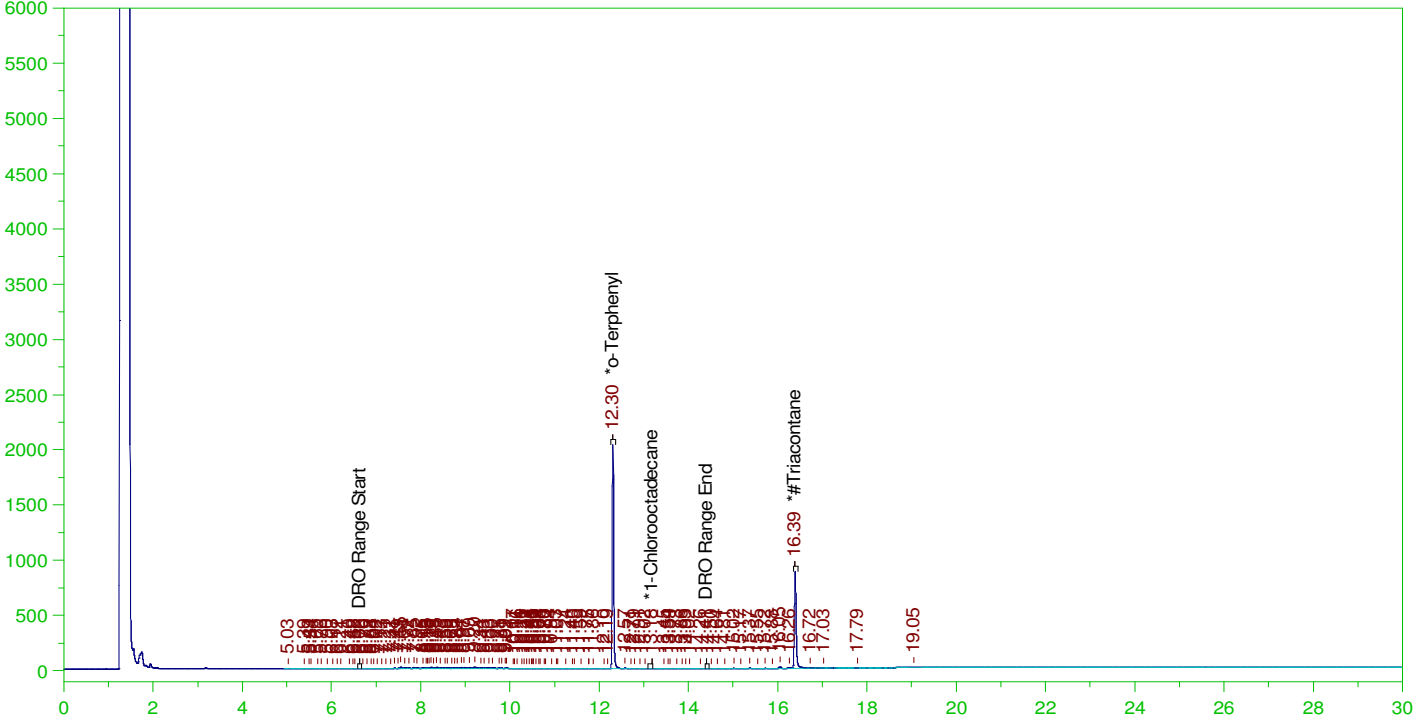
DRO Area:218720.9 DRO Amount: 6.627481E-03  
TEH Area:435732.8 TEH Amount: 1.320318E-02

ERH2426 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0036.RAW

B22011134-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011134-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0036.RAW  
 Date & Time Acquired: 1/25/2022 9:26:43 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.304	.2	.121	60.36	-
*1-Chlorooctadecane	13.178	.2	.	.03	-
*#Triacontane	16.388	.2	.089	44.55	-

DRO Area:1233015 DRO Amount: 3.773531E-02  
 TEH Area:1441161 TEH Amount: 4.410544E-02

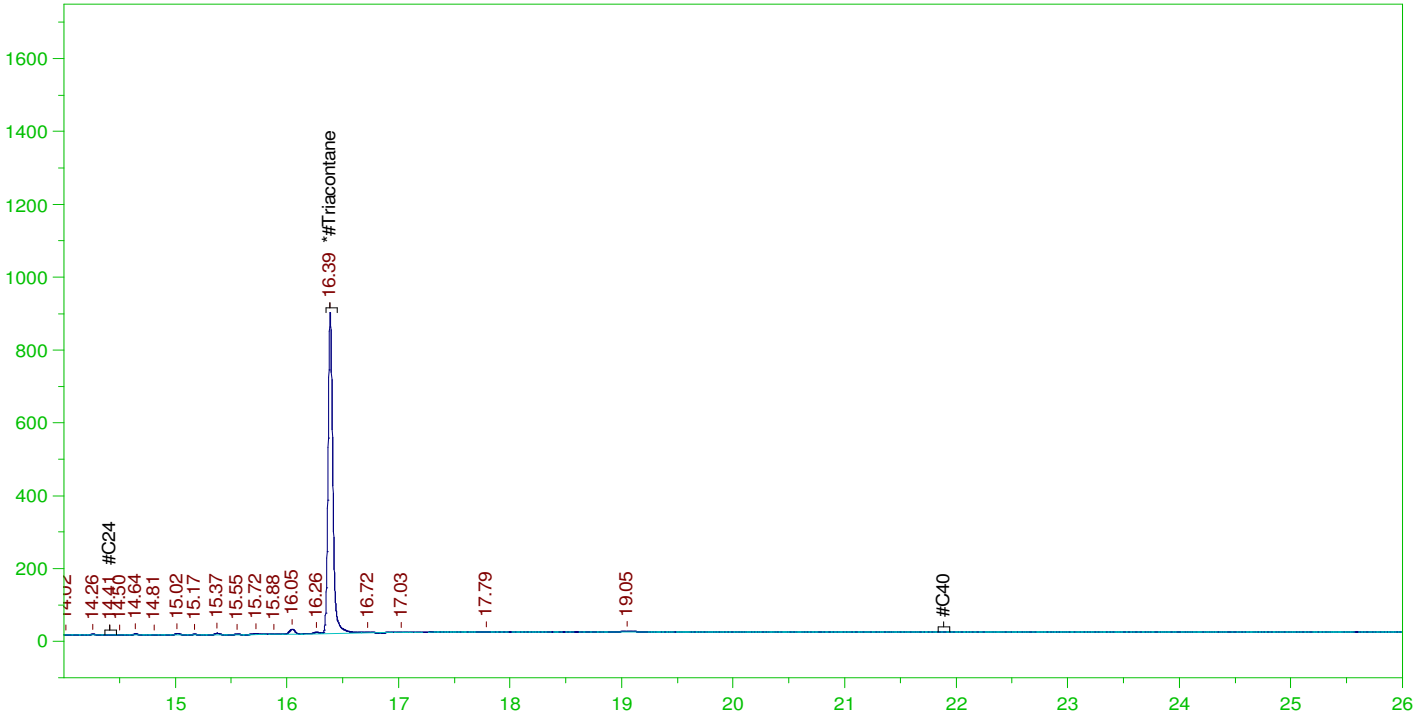


ERH2426 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0036.RAW

B22011134-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011134-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0036.RAW  
 Date & Time Acquired: 1/25/2022 9:26:43 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.388	.5	.089	17.82

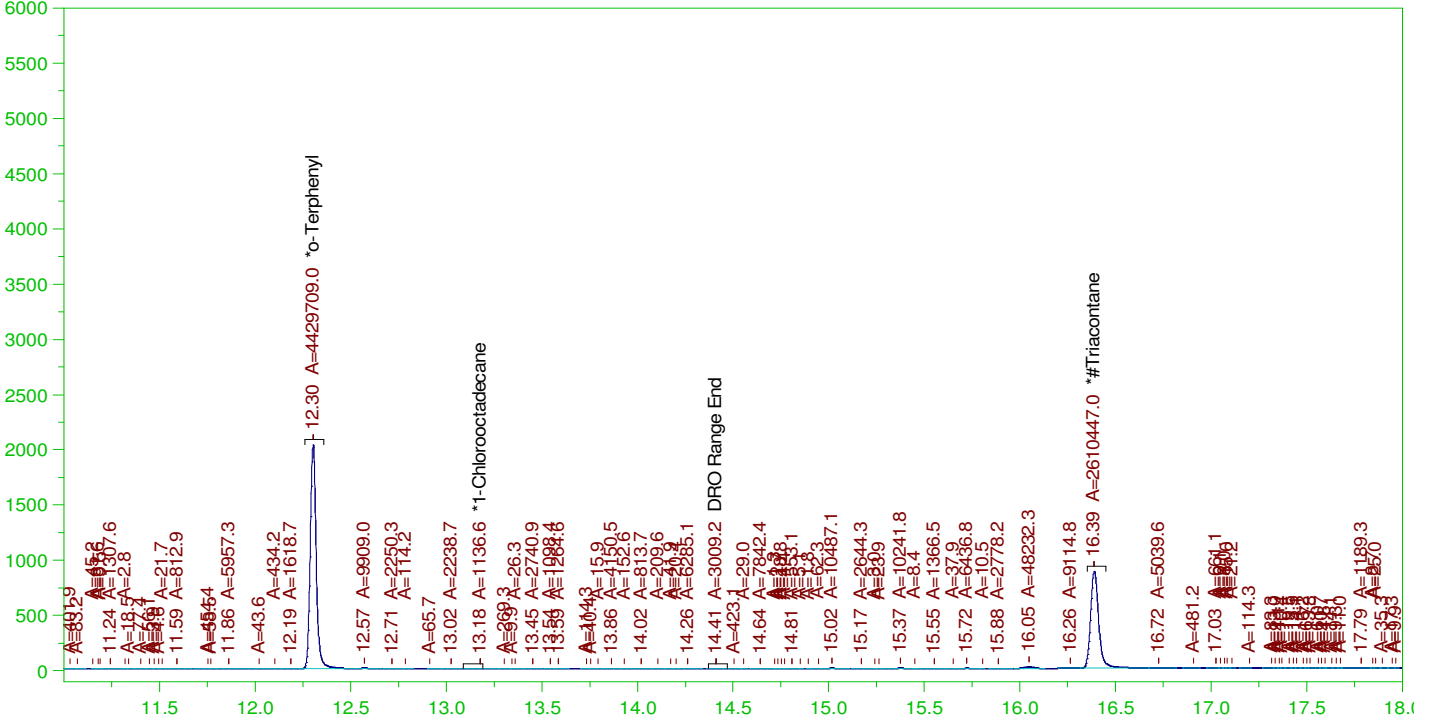
RRO Area:138503.6 RRO AMOUNT: 5.241474E-03

ERH2426 (RHMW01R)

Batch ID: 163074

G:\Org\HP5\DAT\HP5012422\_b\0124HP5.0036.RAW

B22011134-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011134-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\Org\HP5\DAT\HP5012422\_b\0124HP5.0036.RAW  
 Date & Time Acquired: 1/25/2022 9:26:43 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.304	.2	.12	60.09
*1-Chlorooctadecane	13.178	.2	.02	-
*#Triacontane	16.388	.2	.088	44.04

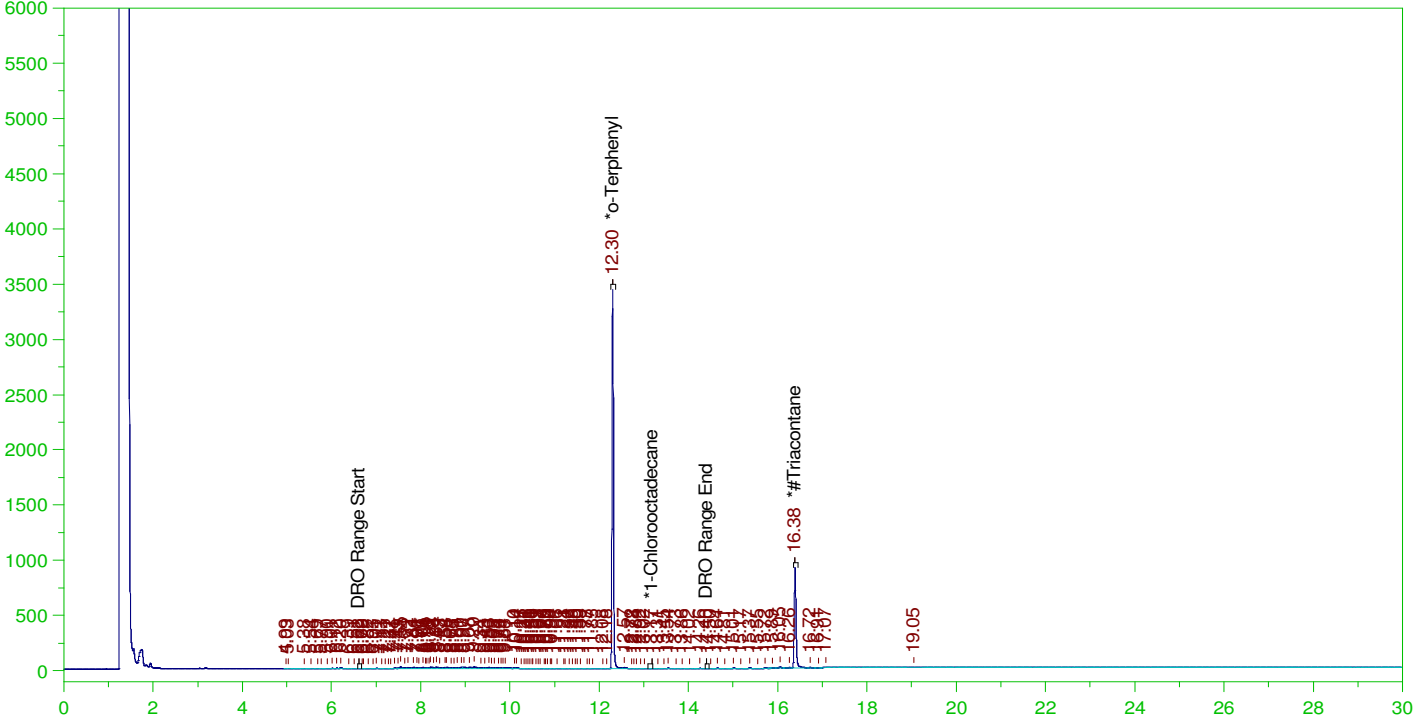
DRO Area:1056512 DRO Amount: 3.233361E-02  
 TEH Area:1268238 TEH Amount: 3.881327E-02

ERH2427 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0037.RAW

B22011134-002B ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011134-002B ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0037.RAW  
 Date & Time Acquired: 1/25/2022 10:09:08 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.3	.202	.197	97.56	-
*1-Chlorooctadecane	13.174	.202	.	.03	-
*#Triacontane	16.385	.202	.094	46.6	-

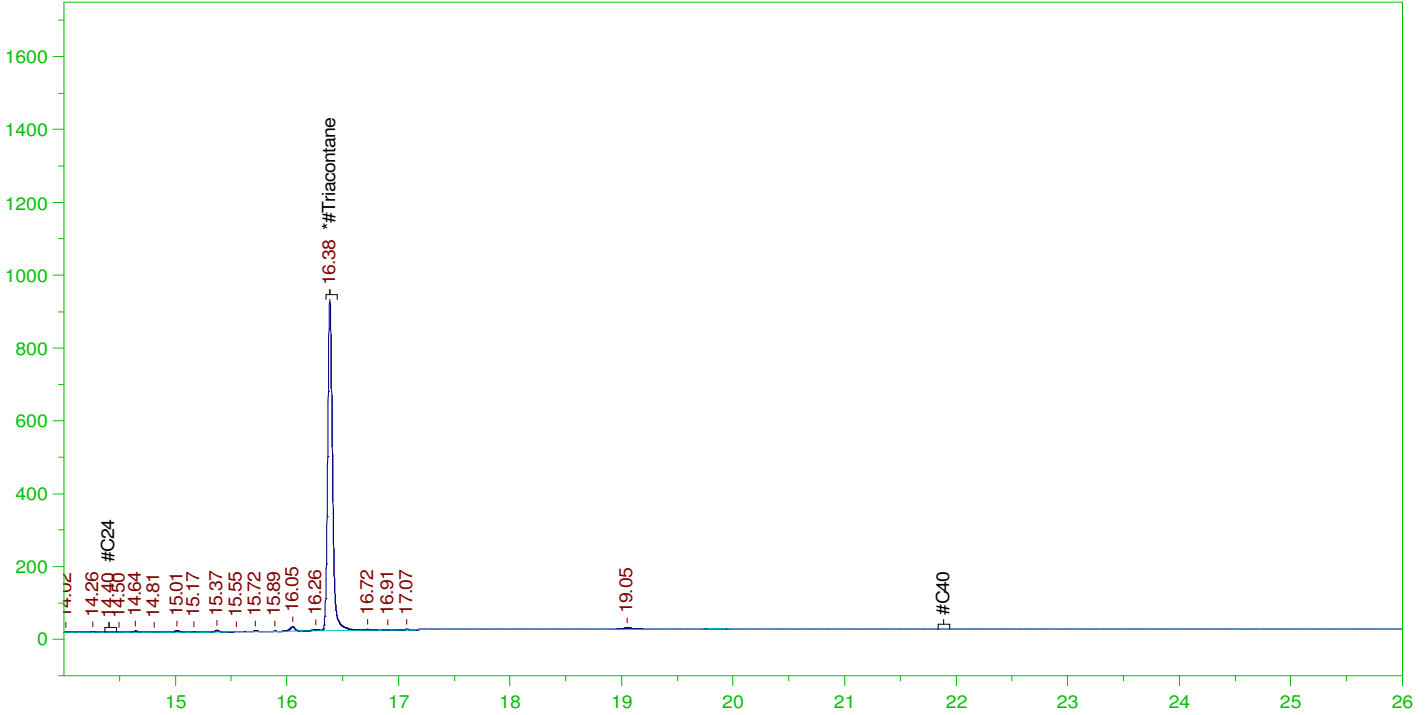
DRO Area:1468868 DRO Amount: 4.540747E-02  
 TEH Area:1705039 TEH Amount: 5.270827E-02

ERH2427 (RHMW01R)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0037.RAW

B22011134-002B ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011134-002B ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0037.RAW  
 Date & Time Acquired: 1/25/2022 10:09:08 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.385	.505	.094	18.64

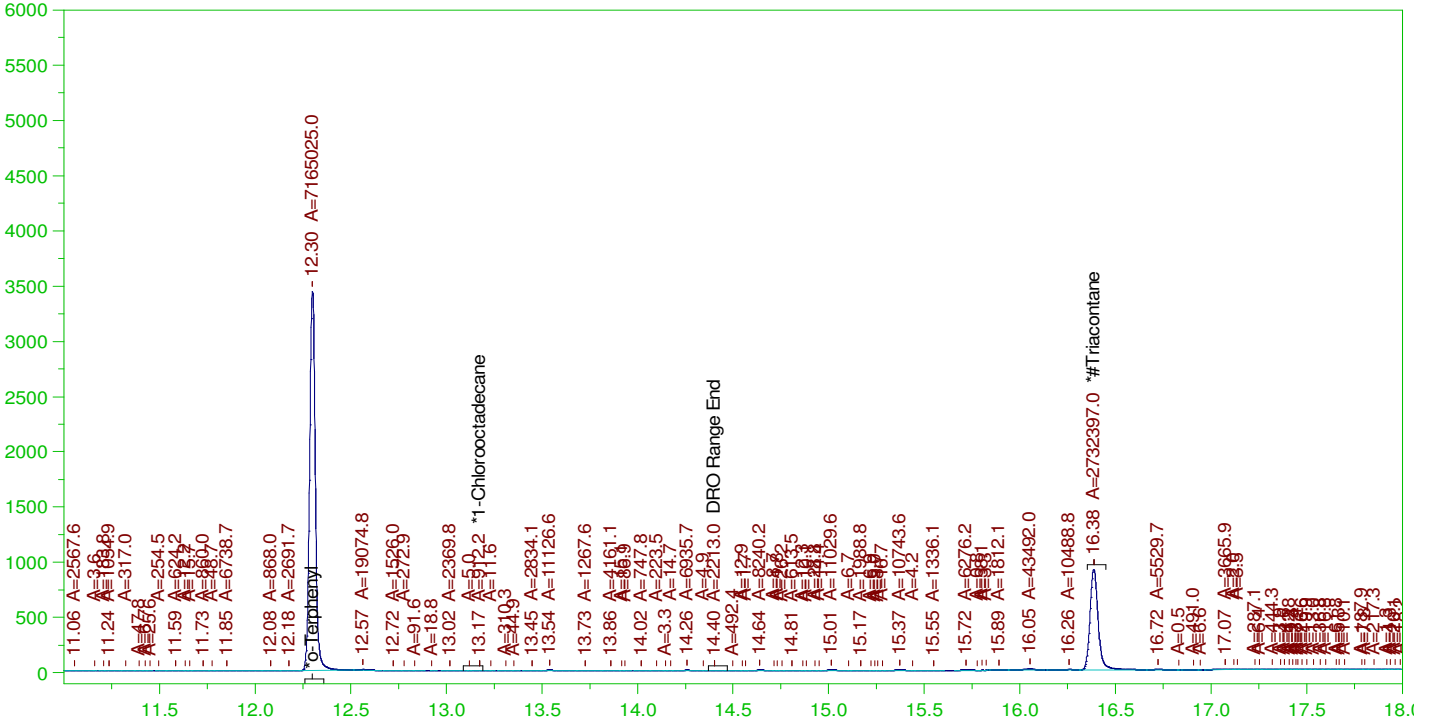
RRO Area:148624.2 RRO AMOUNT: 5.681286E-03

ERH2427 (RHMW01R)

Batch ID: 163074

G:\Org\HP5\DAT\HP5012422\_b\0124HP5.0037.RAW

B22011134-002B ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

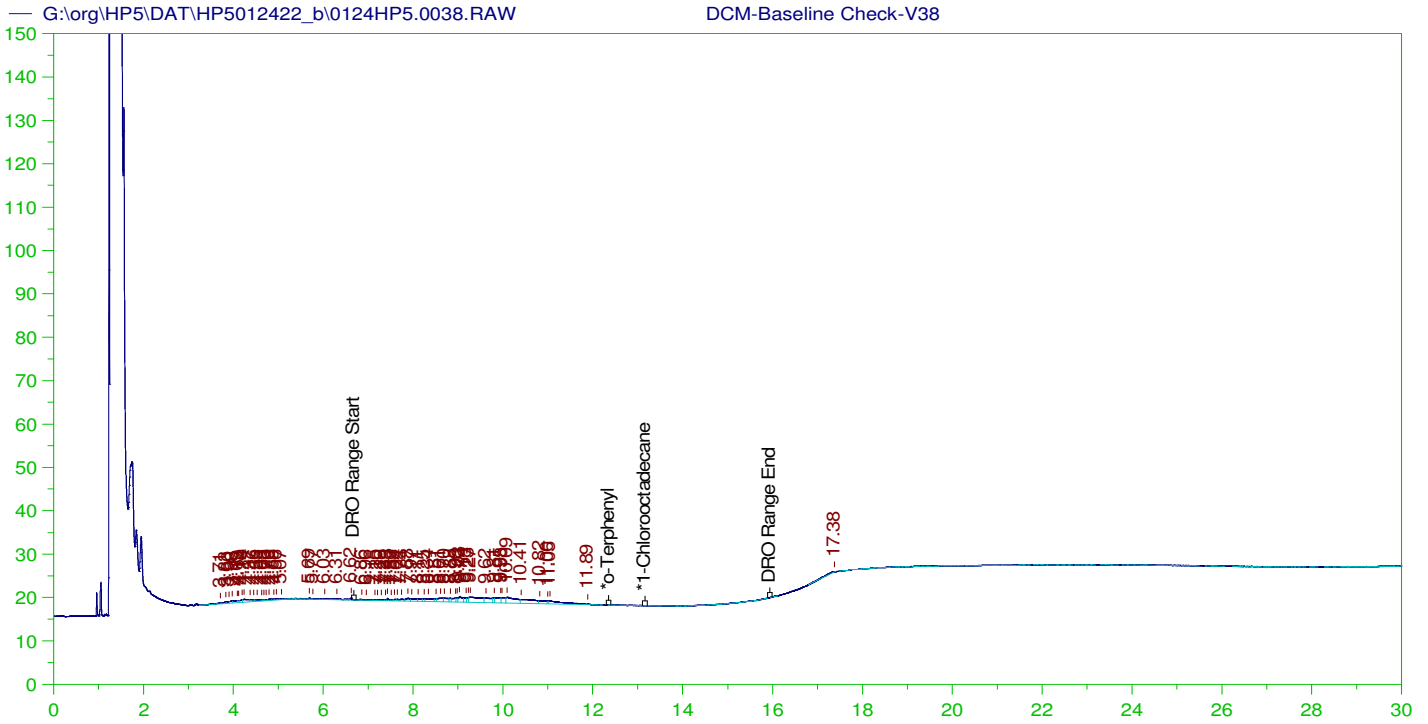
Sample Name: B22011134-002B ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\Org\HP5\DAT\HP5012422\_b\0124HP5.0037.RAW  
 Date & Time Acquired: 1/25/2022 10:09:08 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.3	.202	.196	97.2	-
*1-Chlorooctadecane	13.174	.202	.	.01	-
*#Triacontane	16.385	.202	.093	46.1	-

DRO Area:1274476 DRO Amount: 3.939817E-02  
 TEH Area:1520852 TEH Amount: 4.701444E-02



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V38  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0038.RAW  
 Date & Time Acquired: 1/25/2022 10:51:39 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.968	200.	.	-
*1-Chlorooctadecane	29.968	200.	.	-

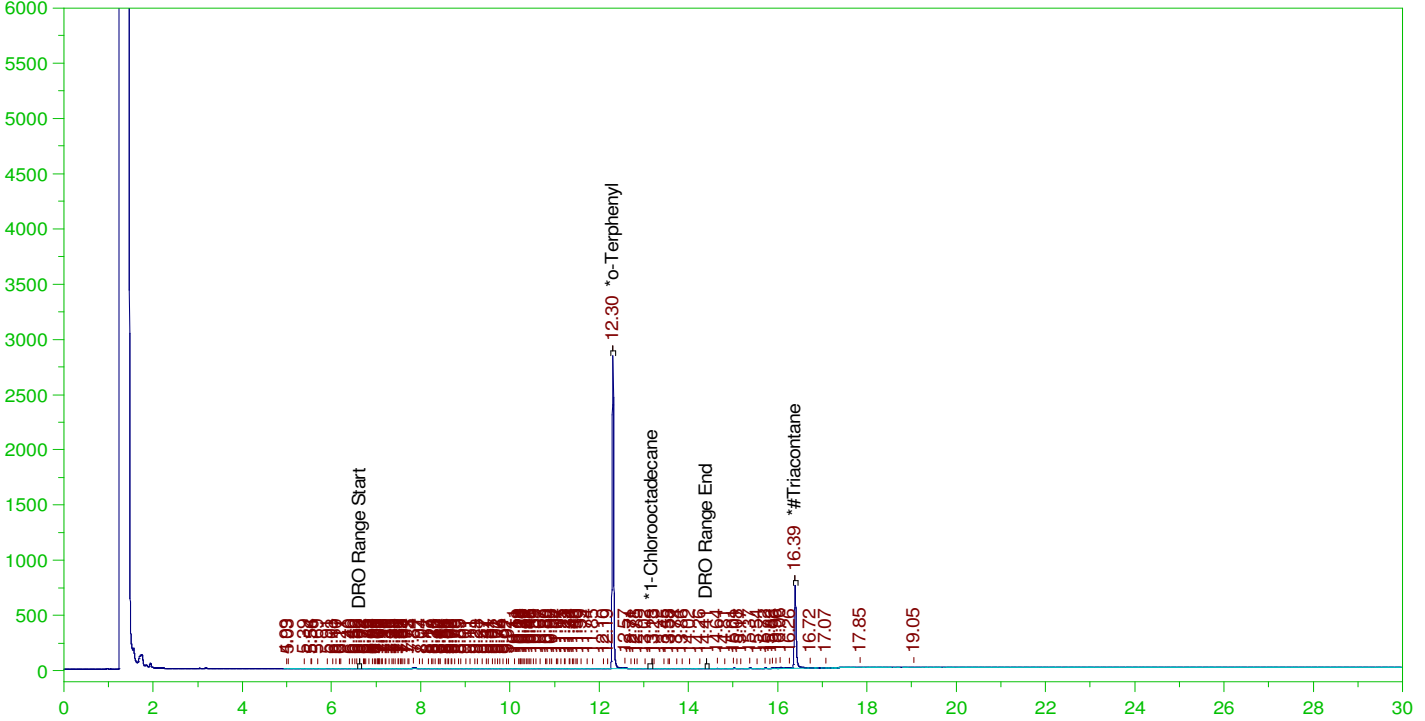
DRO Area:195860 DRO Amount: 5.994118  
 TEH Area:246660.8 TEH Amount: 7.548833

ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0039.RAW

B22011135-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011135-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0039.RAW  
 Date & Time Acquired: 1/25/2022 11:34:16 AM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.304	.202	.167	82.75	-
*1-Chlorooctadecane	13.177	.202	.	.04	-
*#Triacontane	16.386	.202	.08	39.39	-

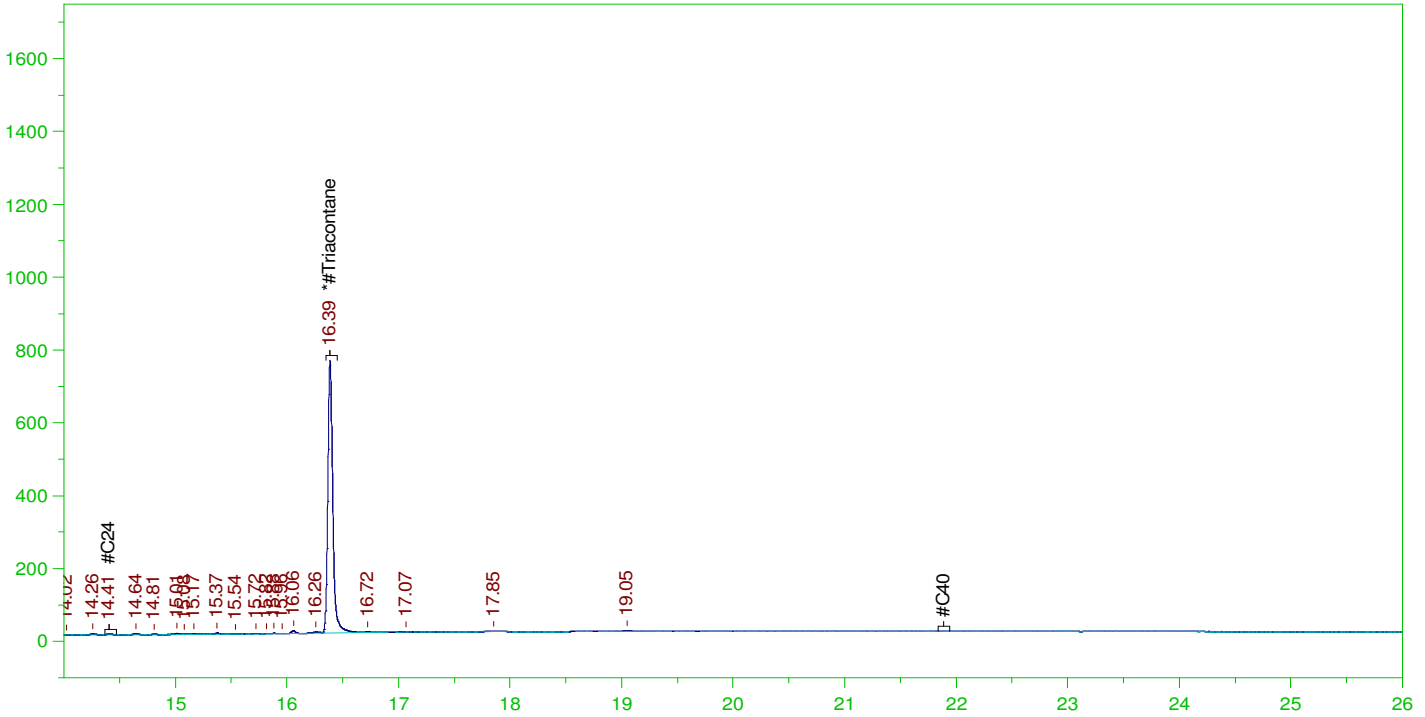
DRO Area:432821.4 DRO Amount: 1.337991E-02  
 TEH Area:610219.1 TEH Amount: 1.886385E-02

ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0039.RAW

B22011135-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011135-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0039.RAW  
 Date & Time Acquired: 1/25/2022 11:34:16 AM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.386	.505	.08	15.75	-

RRO Area:118067.4 RRO AMOUNT: 4.513226E-03

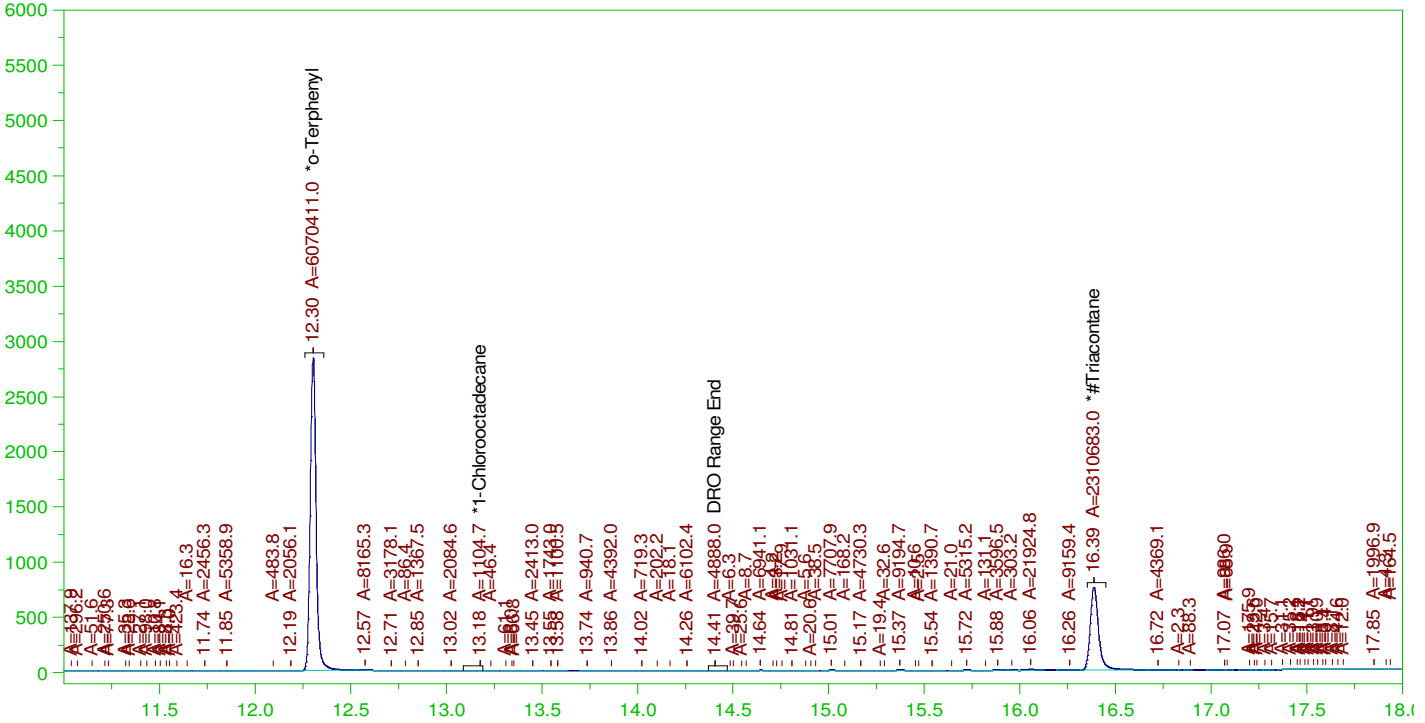


ERH2431 (RHMW03)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0039.RAW

B22011135-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011135-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0039.RAW  
 Date & Time Acquired: 1/25/2022 11:34:16 AM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.304	.202	.166	82.35	-
*1-Chlorooctadecane	13.177	.202	.	.01	-
*Triacontane	16.386	.202	.079	38.98	-

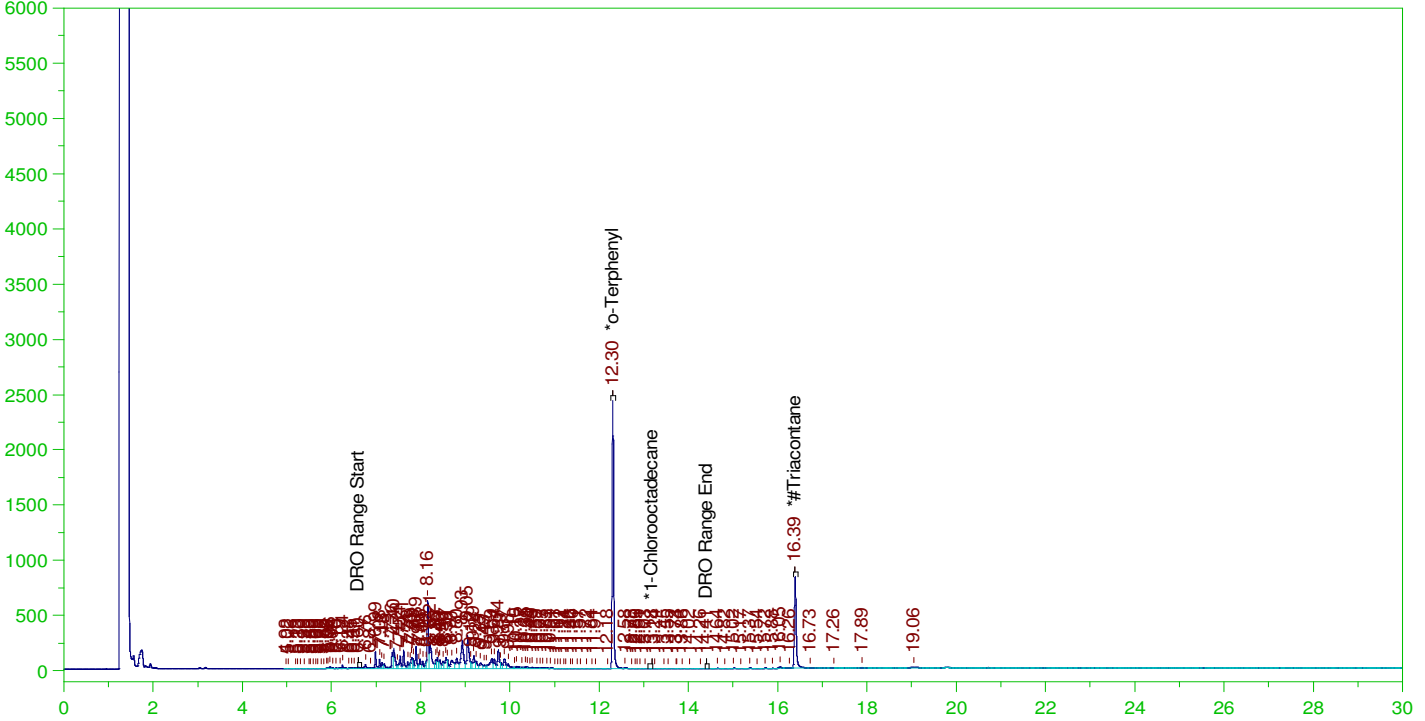
DRO Area:268892.1 DRO Amount: 8.312325E-03  
 TEH Area:522240.3 TEH Amount: 1.614414E-02

ERH2429 (RHMW02)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0040.RAW

B22011137-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011137-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0040.RAW  
 Date & Time Acquired: 1/25/2022 12:16:51 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.194	.142	72.89	-
*1-Chlorooctadecane	13.18	.194	.	.02	-
*#Triacontane	16.388	.194	.084	43.48	-

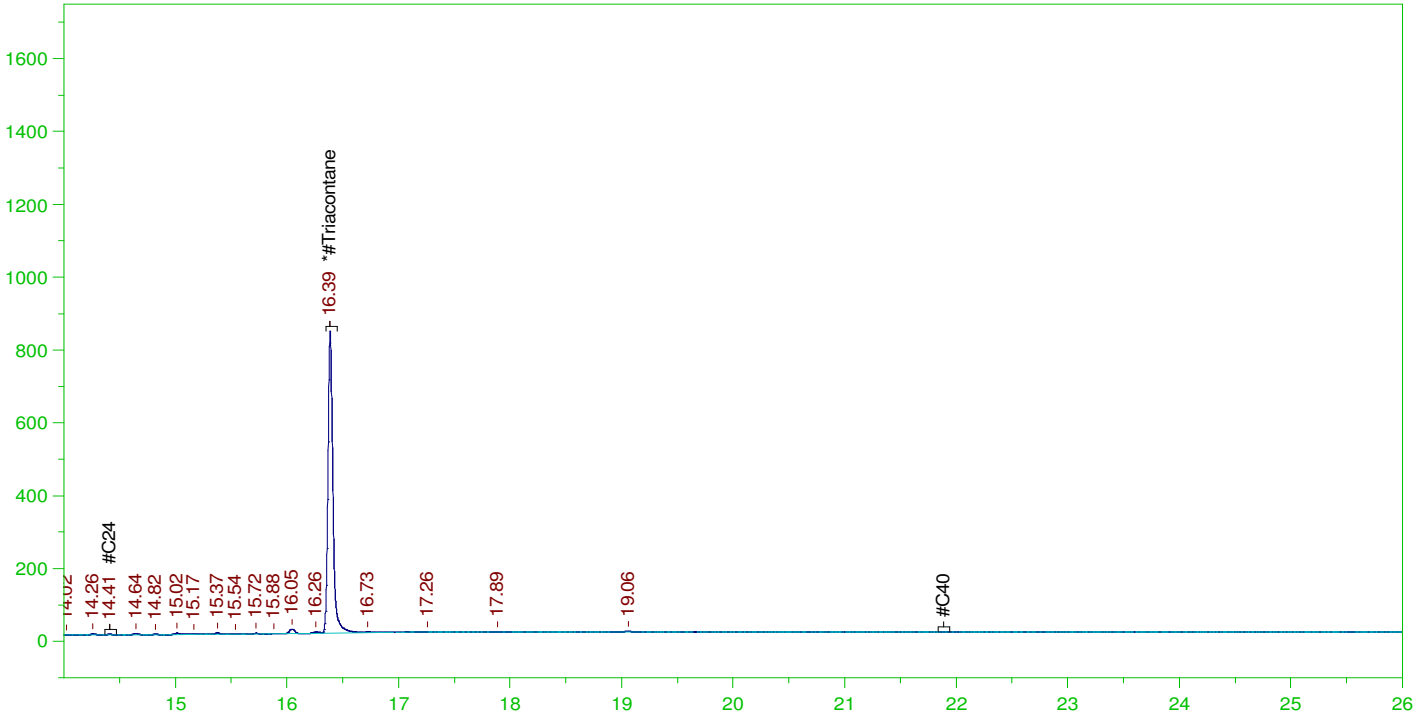
DRO Area:1.391613E+07 DRO Amount: 0.413486  
 TEH Area:1.43224E+07 TEH Amount: 0.4255574

ERH2429 (RHMW02)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0040.RAW

B22011137-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011137-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0040.RAW  
 Date & Time Acquired: 1/25/2022 12:16:51 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.388	.485	.084	17.39

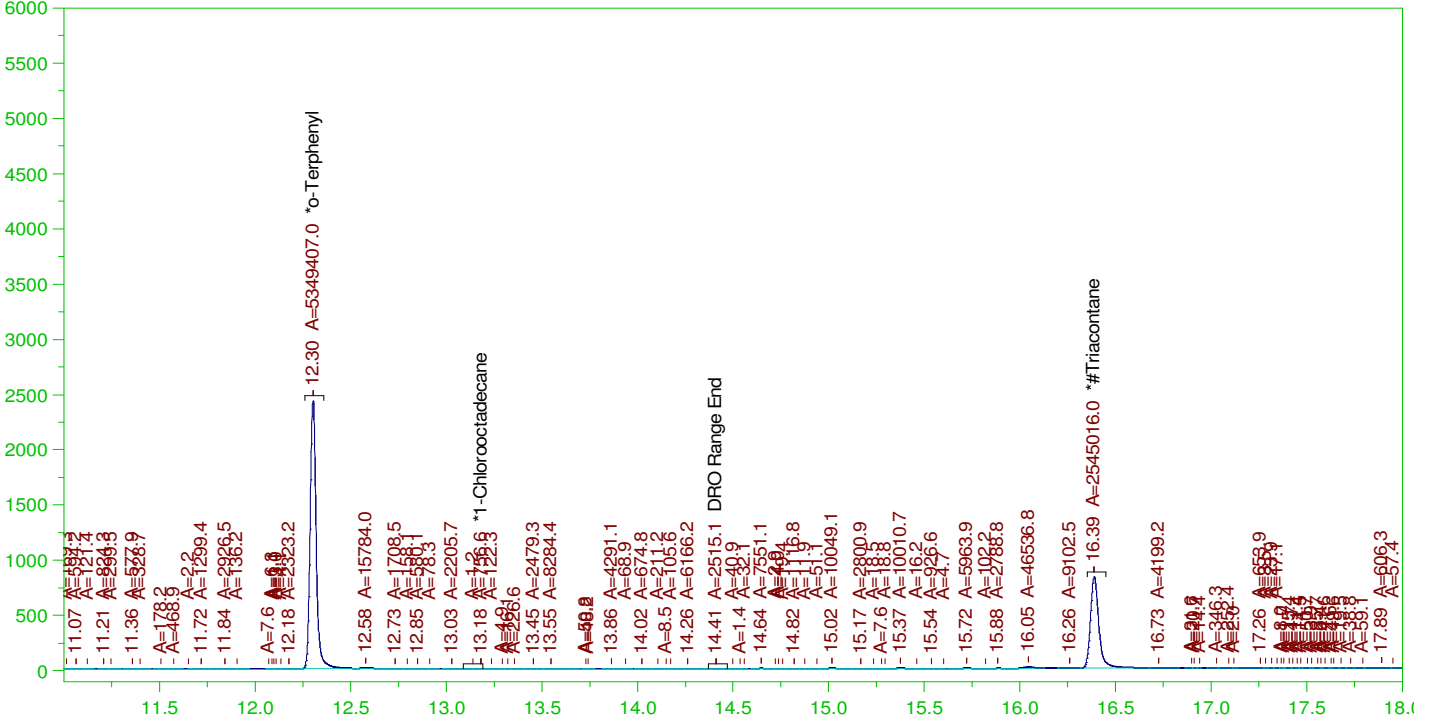
RRO Area:130214.7 RRO AMOUNT: 4.784264E-03

ERH2429 (RHMW02)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0040.RAW

B22011137-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011137-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0040.RAW  
 Date & Time Acquired: 1/25/2022 12:16:51 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.194	.141	72.57	-
*1-Chlorooctadecane	13.18	.194	.	.01	-
*#Triacontane	16.388	.194	.083	42.94	-

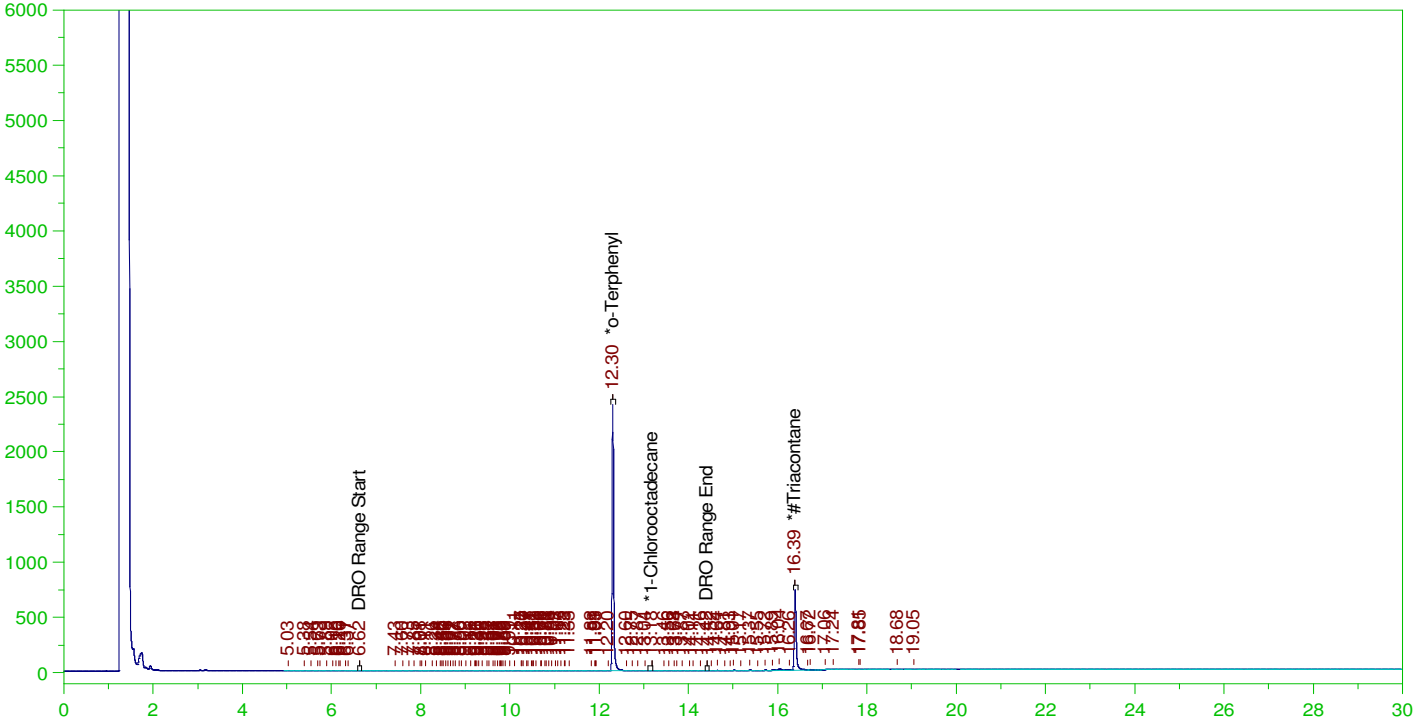
DRO Area:1.306614E+07 DRO Amount: 0.3882307  
 TEH Area:1.342918E+07 TEH Amount: 0.3990173

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0041.RAW

B22011214-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011214-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0041.RAW  
 Date & Time Acquired: 1/25/2022 12:59:33 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.303	.2	.15	74.89
*1-Chlorooctadecane	13.184	.2	.04	-
*#Triacontane	16.387	.2	.077	38.7

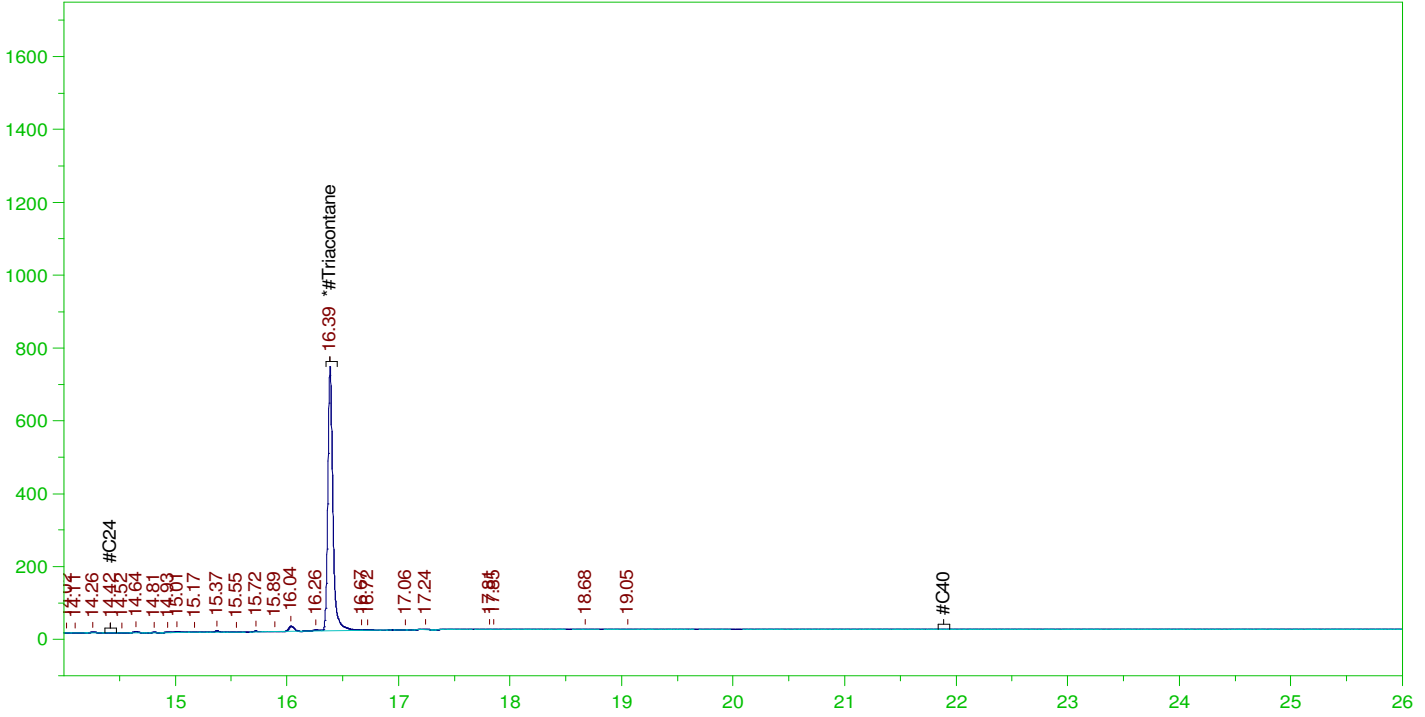
DRO Area:229862.8 DRO Amount: 7.034743E-03  
 TEH Area:390879.8 TEH Amount: 1.196252E-02

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0041.RAW

B22011214-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011214-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0041.RAW  
 Date & Time Acquired: 1/25/2022 12:59:33 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.387	.5	.077	15.48	-

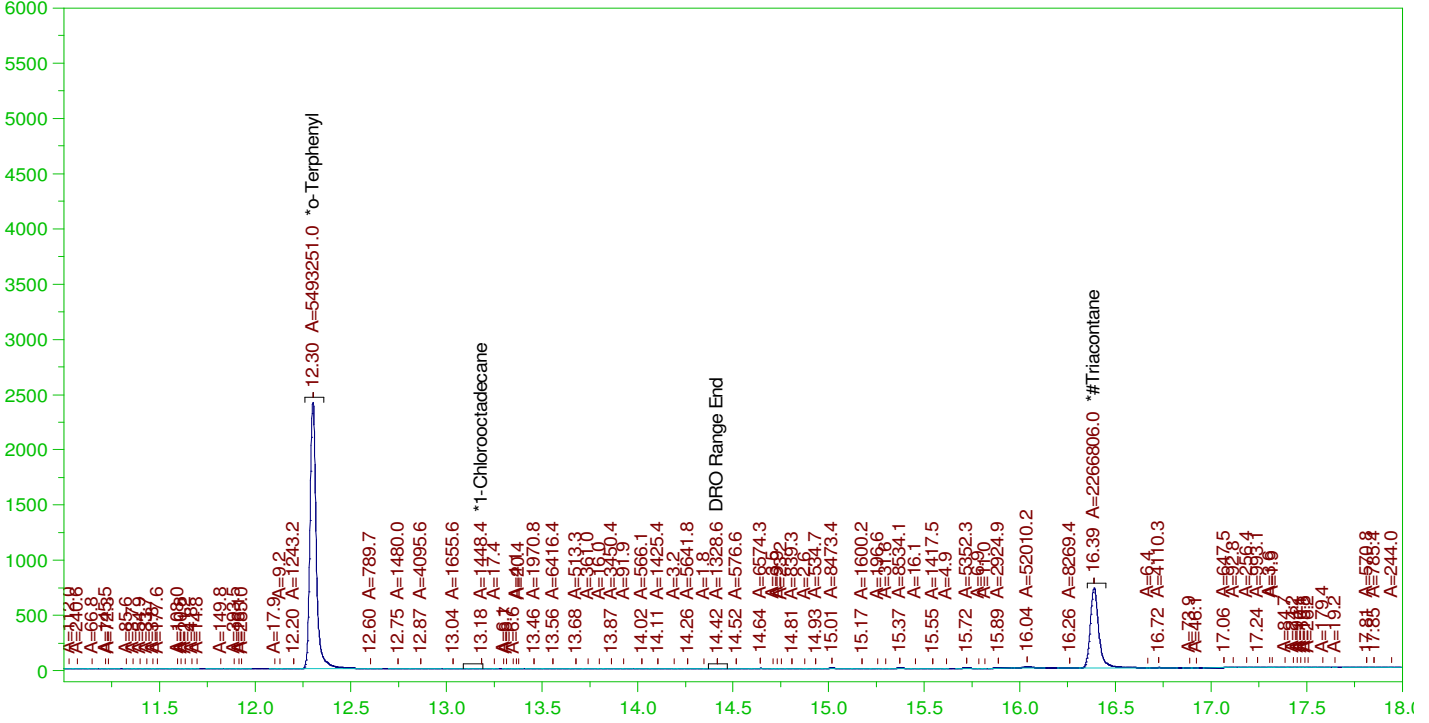
RRO Area:127586.6 RRO AMOUNT: 4.828334E-03

ERH2464 (RHMW08)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0041.RAW

B22011214-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

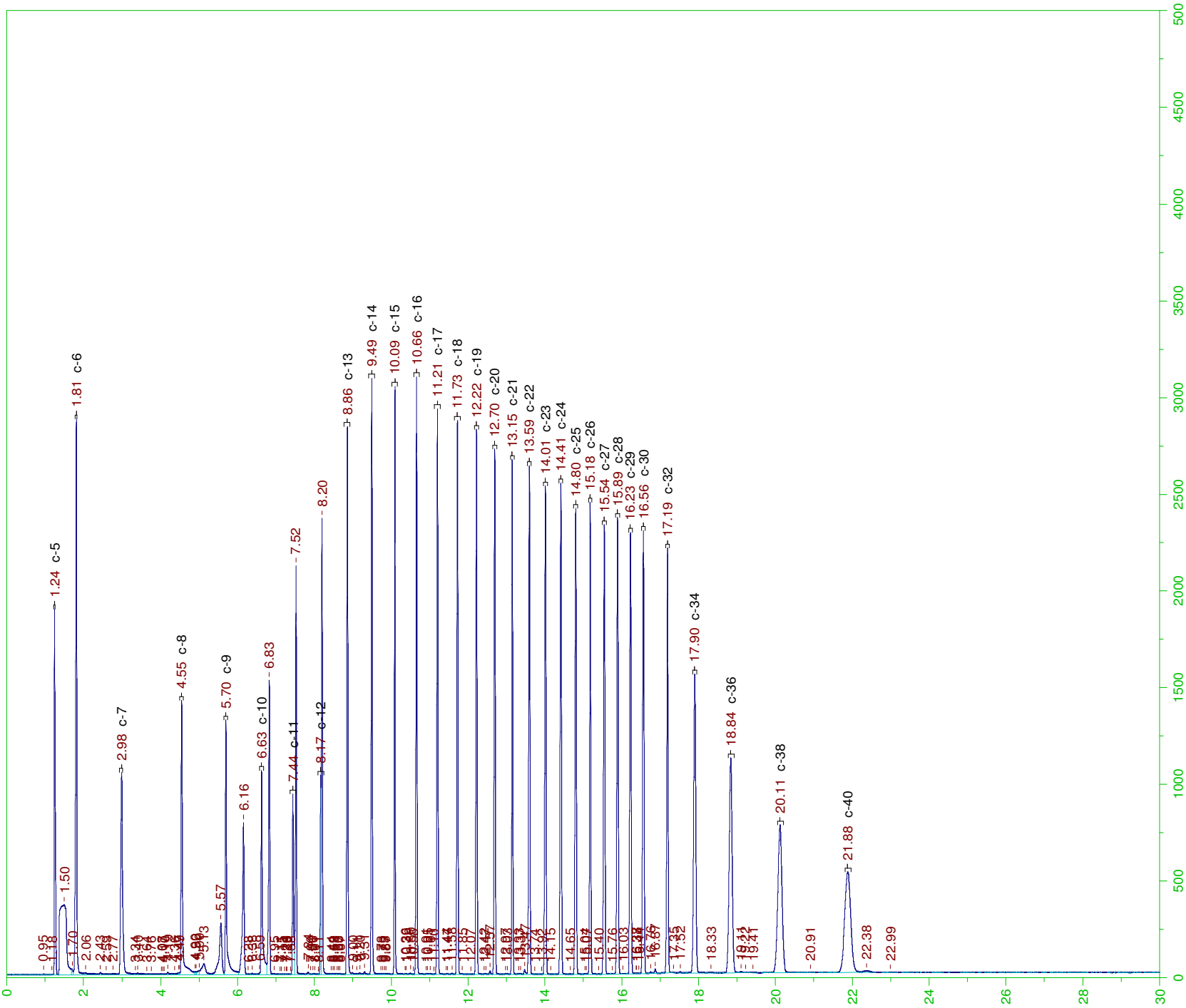
Sample Name: B22011214-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0041.RAW  
 Date & Time Acquired: 1/25/2022 12:59:33 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

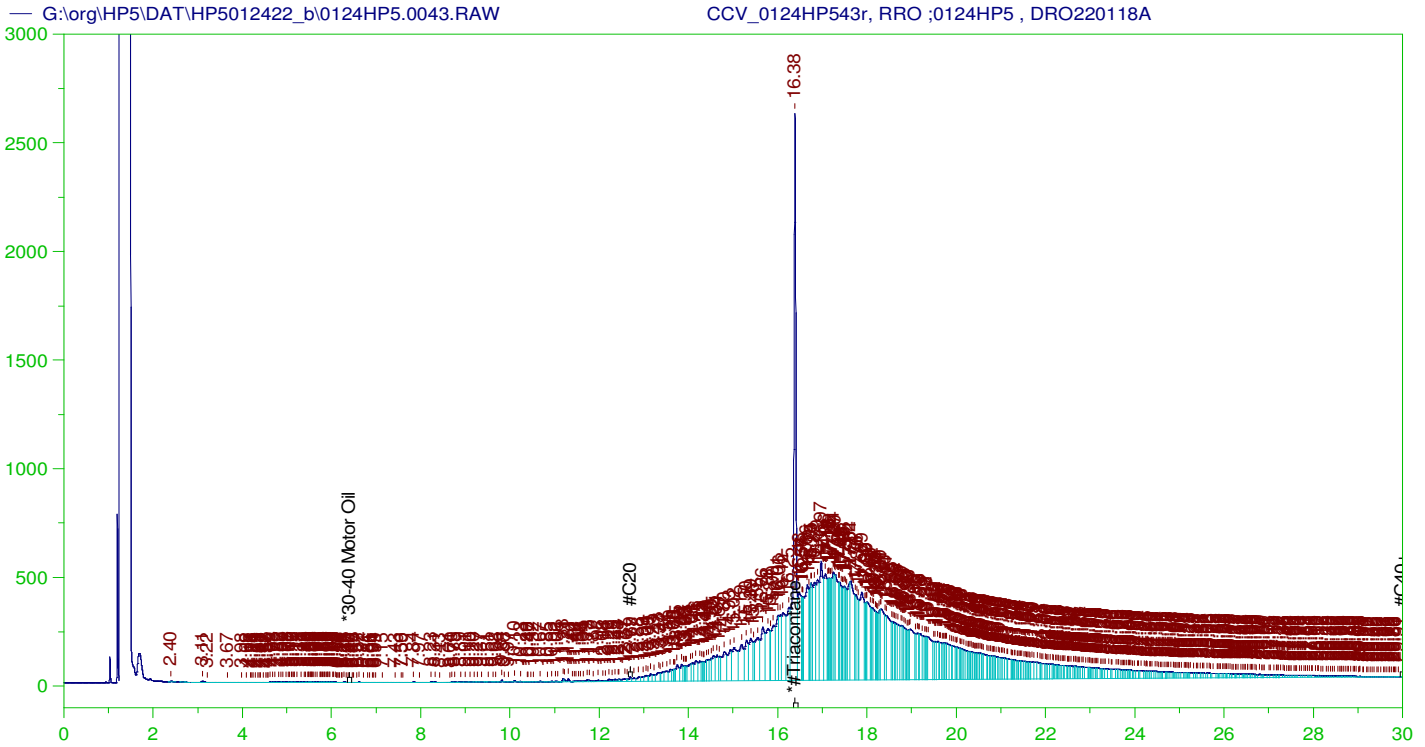
Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.2	.149	74.52	-
*1-Chlorooctadecane	13.184	.2	.	.02	-
*Triacontane	16.387	.2	.076	38.24	-

DRO Area:117049.6 DRO Amount: 3.582198E-03  
 TEH Area:305516.1 TEH Amount: 9.350046E-03







**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP543r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0043.RAW  
 Date & Time Acquired: 1/25/2022 2:24:48 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.384	500.	320.432	64.09	-

RRO TEH(Oil Range) Area: 1.178307E+08 RRO TEH(Oil Range) AMOUNT: 4459.137

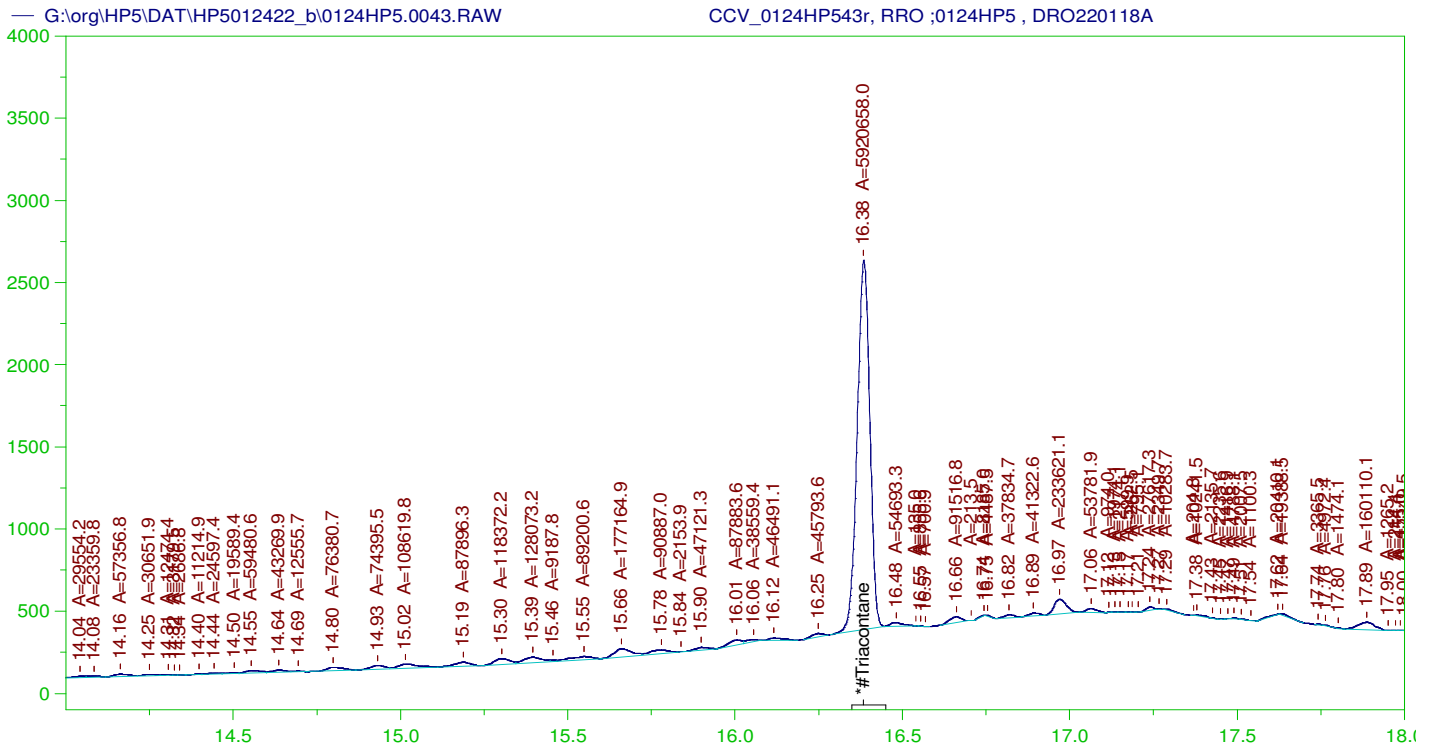
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0043.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.054	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.384	200.	320.432	160.22	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP543r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0043.RAW  
 Date & Time Acquired: 1/25/2022 2:24:48 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

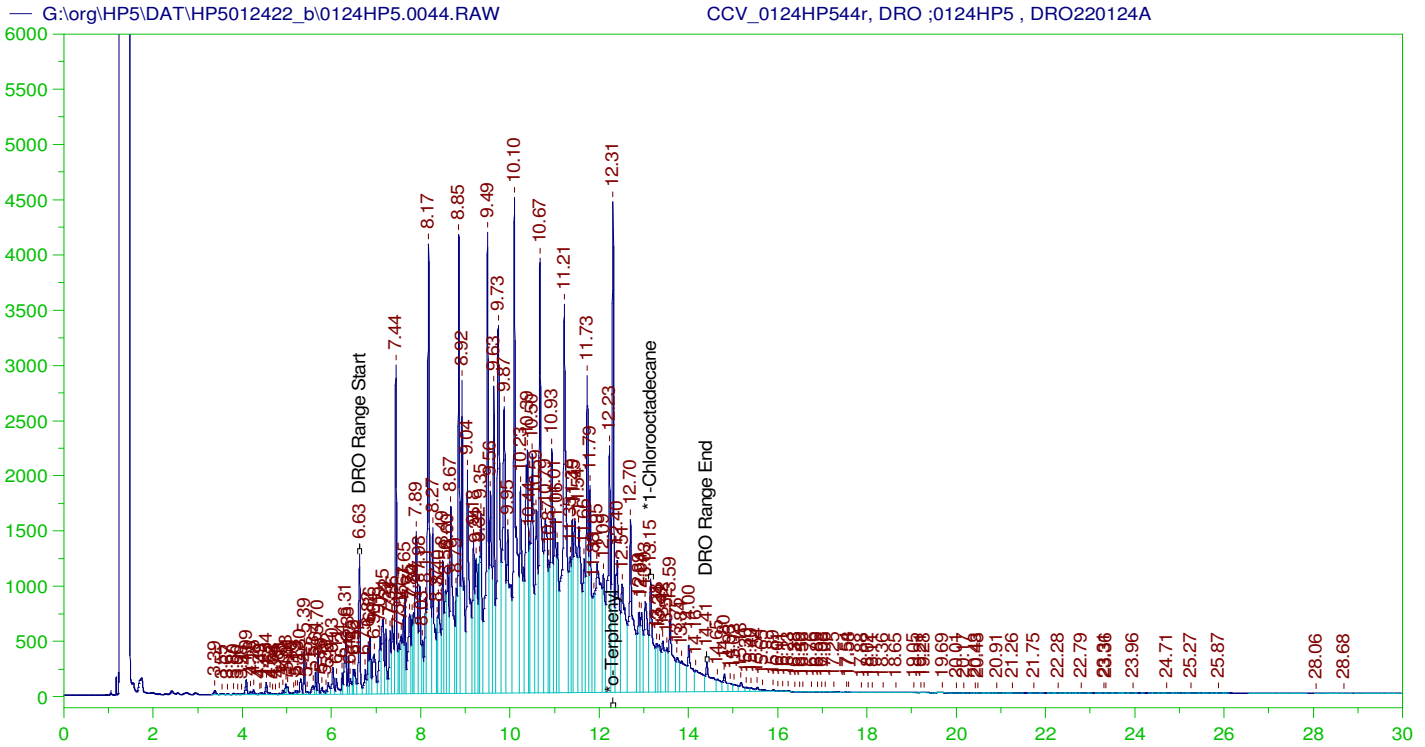
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.384	500.	199.779	39.96	-

RRO Area:2974228 RRO AMOUNT: 112.5555

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0043.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.054	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.384	200.	199.779	99.89	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP544r, DRO ;0124HP5 , DRO220124A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0044.RAW  
 Date & Time Acquired: 1/25/2022 3:07:07 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.305	200.	297.872	148.94
*1-Chlorooctadecane	13.151	200.	141.158	70.58

DRO Area: 4.360069E+08 DRO Amount: 13343.6  
 TEH Area: 4.504521E+08 TEH Amount: 13785.68

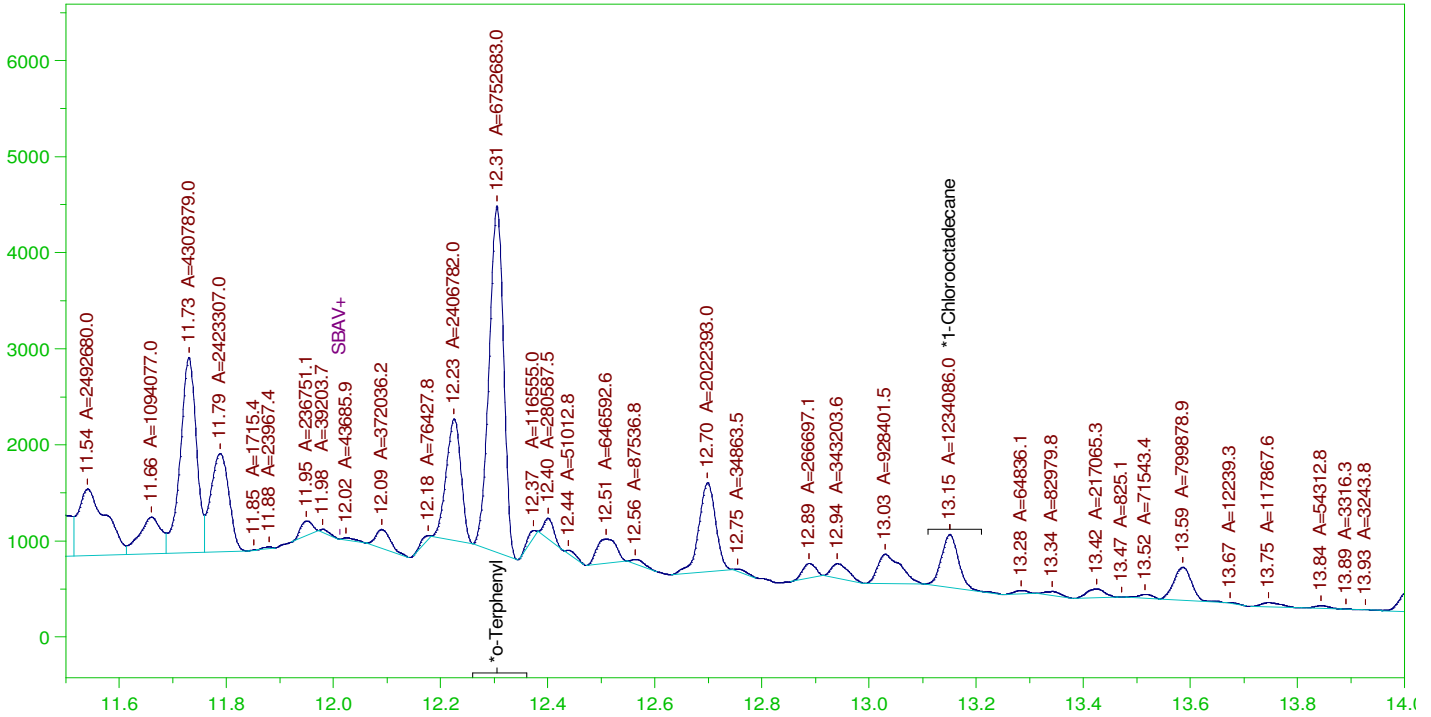
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0044.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	13785.68	91.9	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.305	200.	297.872	148.94	85-115
*1-Chlorooctadecane	13.151	200.	141.158	70.58	85-115

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0044.RAW

CCV\_0124HP544r, DRO ;0124HP5 , DRO220124A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP544r, DRO ;0124HP5 , DRO220124A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0044.RAW  
 Date & Time Acquired: 1/25/2022 3:07:07 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

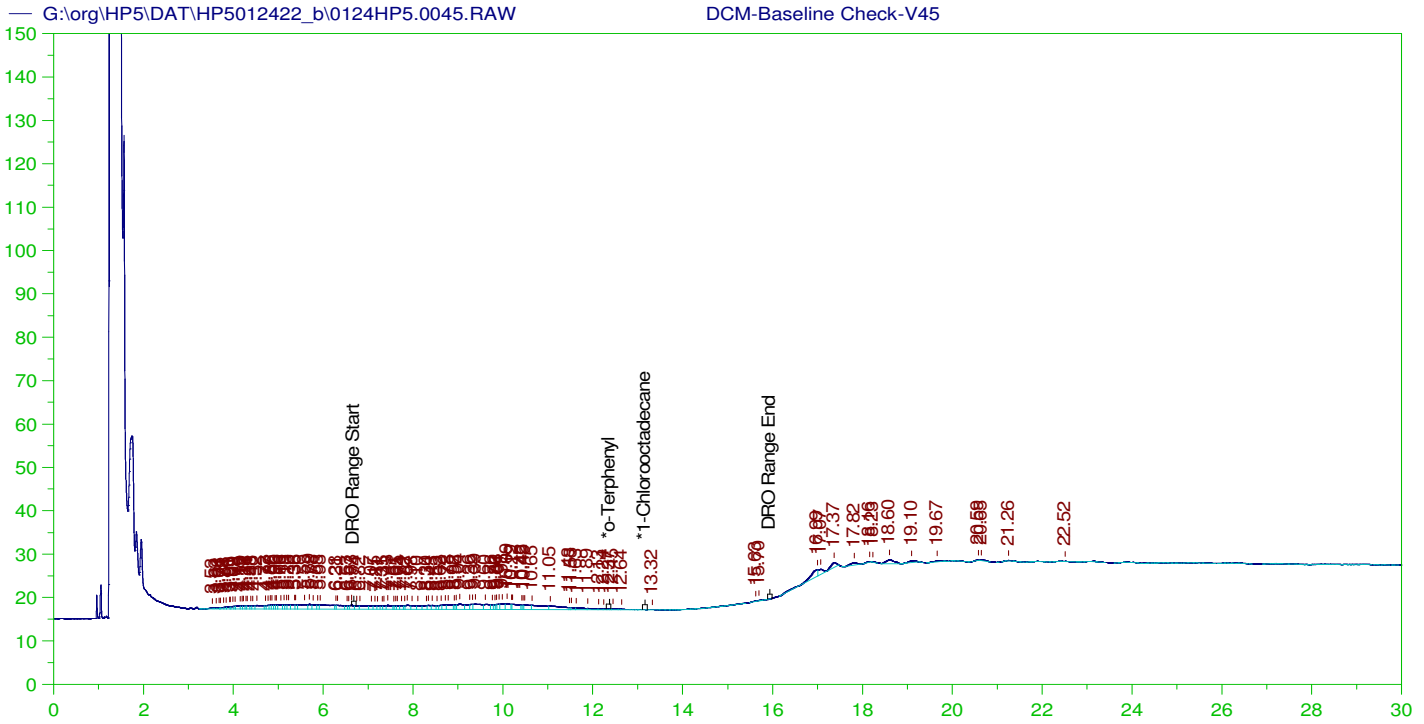
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.305	200.	183.209	91.6
*1-Chlorooctadecane	13.151	200.	33.482	16.74

DRO Area: 2.236244E+08 DRO Amount: 6843.823  
 TEH Area: 2.335689E+08 TEH Amount: 7148.167

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0044.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7148.17	47.65	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.305	200.	183.209	91.6	85-115
*1-Chlorooctadecane	13.151	200.	33.482	16.74	85-115



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

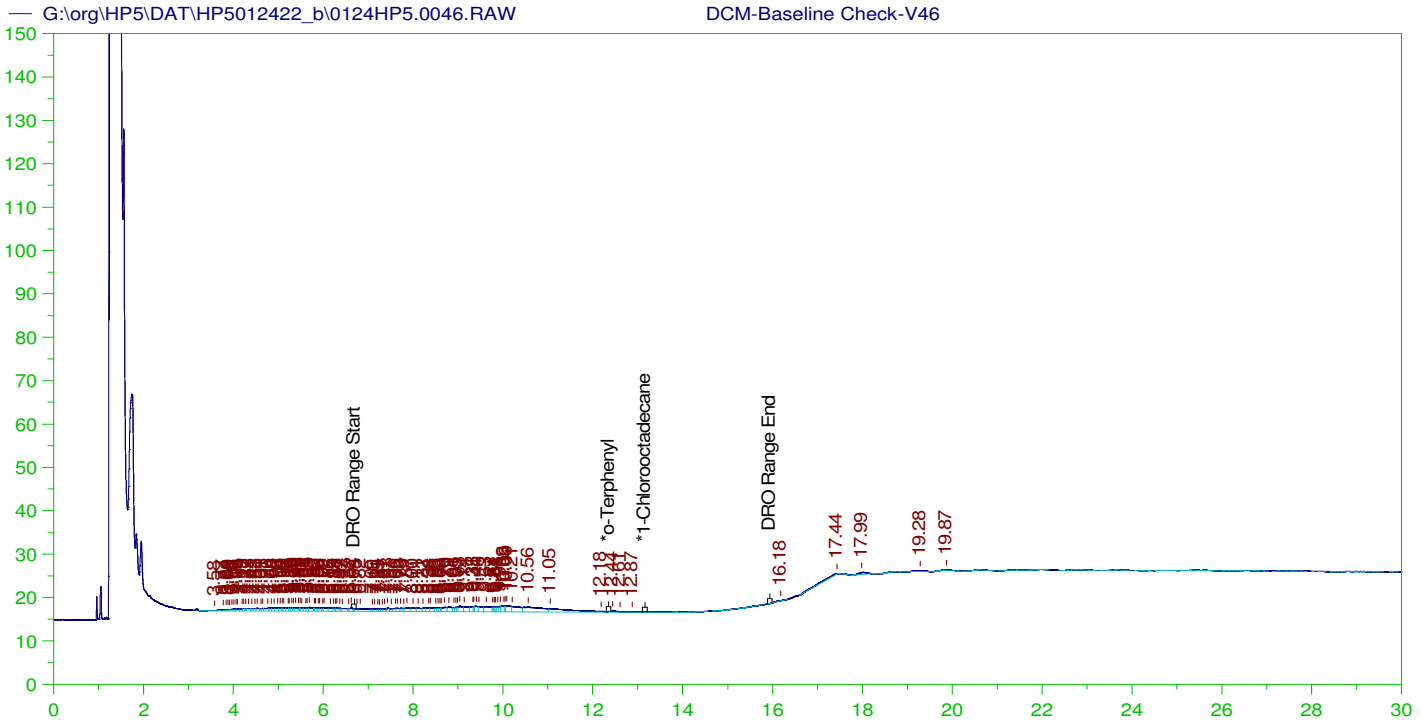
Sample Name: DCM-Baseline Check-V45  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0045.RAW  
 Date & Time Acquired: 1/25/2022 3:49:26 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.373	200.	.016	.01
*1-Chlorooctadecane	29.851	200.	.	.

DRO Area: 289801.3 DRO Amount: 8.869109  
 TEH Area: 532191.8 TEH Amount: 16.28725



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V46  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0046.RAW  
 Date & Time Acquired: 1/25/2022 4:31:45 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.815	200.	.	-
*1-Chlorooctadecane	29.815	200.	.	-

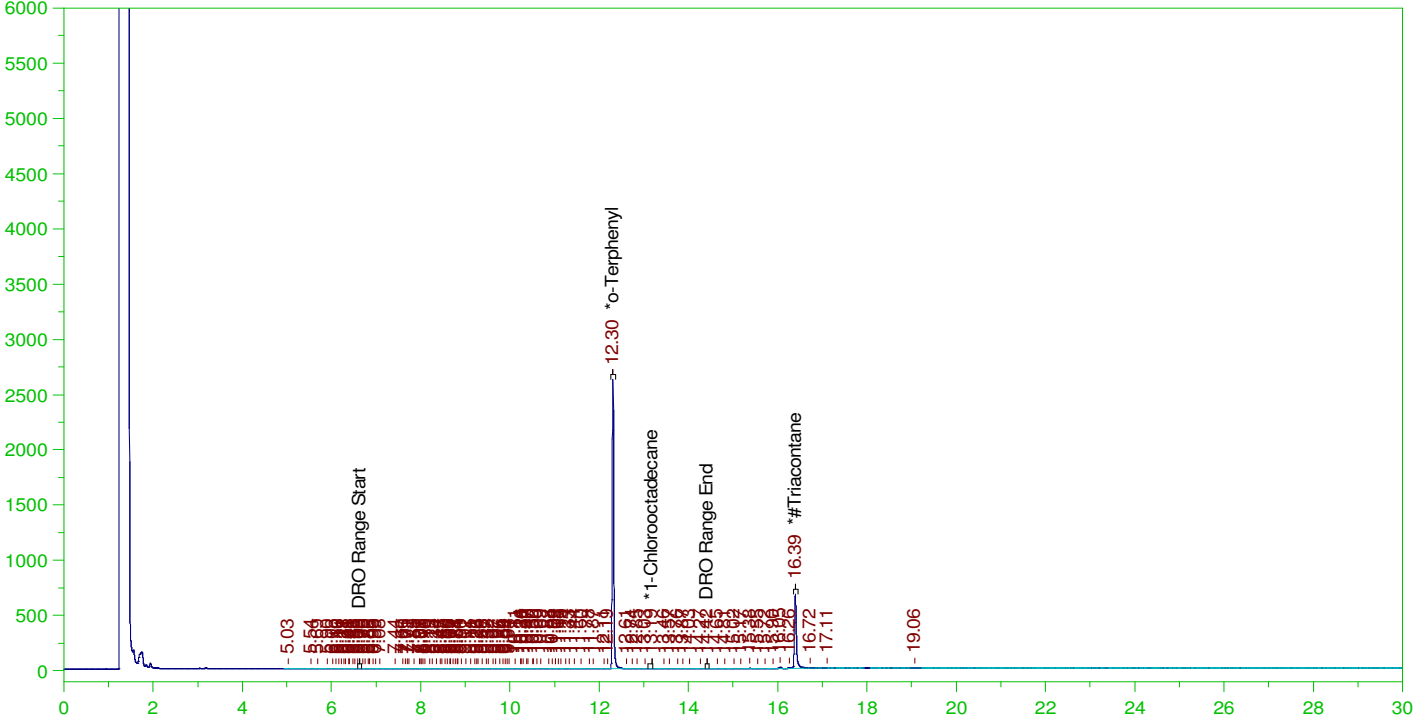
DRO Area: 265474 DRO Amount: 8.124592  
 TEH Area: 403350.3 TEH Amount: 12.34417

ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0047.RAW

B22011227-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011227-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0047.RAW  
 Date & Time Acquired: 1/25/2022 5:14:47 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.202	.159	78.61	-
*1-Chlorooctadecane	13.187	.202	.	.03	-
*#Triacontane	16.39	.202	.075	37.17	-

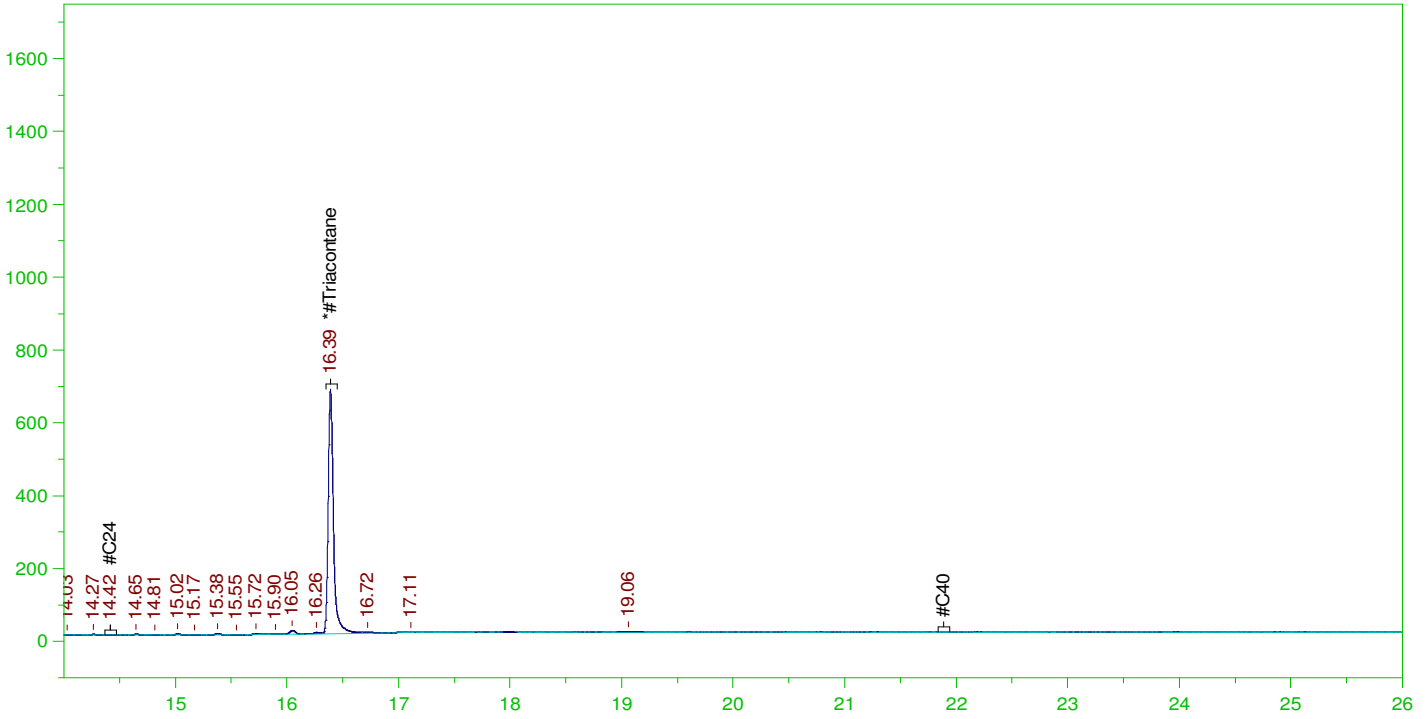
DRO Area:248792.1 DRO Amount: 7.690968E-03  
 TEH Area:397073.6 TEH Amount: 1.227483E-02

ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0047.RAW

B22011227-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011227-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0047.RAW  
 Date & Time Acquired: 1/25/2022 5:14:47 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.39	.505	.075	14.87

RRO Area:111531.1 RRO AMOUNT: 4.263371E-03

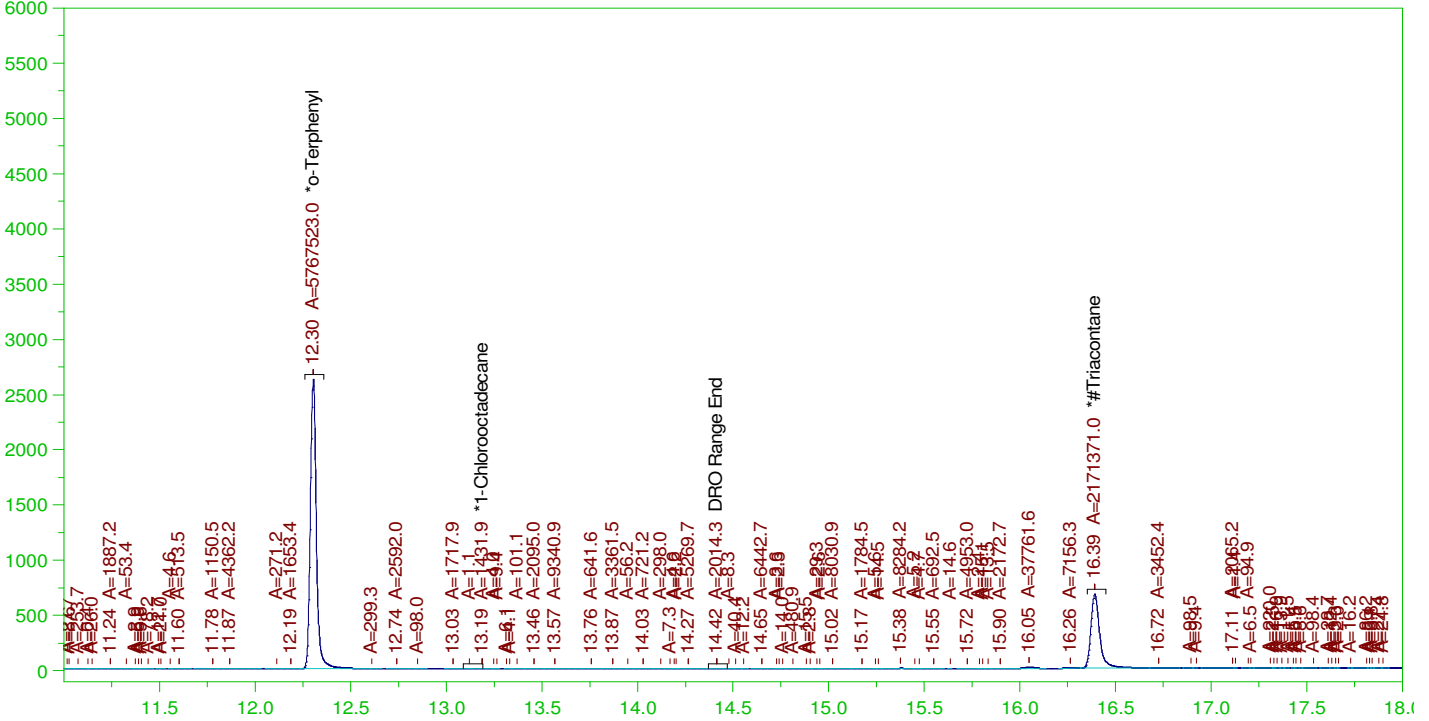


ERH2468 (RHMW06)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0047.RAW

B22011227-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011227-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0047.RAW  
 Date & Time Acquired: 1/25/2022 5:14:47 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.202	.158	78.24	-
*1-Chlorooctadecane	13.187	.202	.	.02	-
*#Triacontane	16.39	.202	.074	36.63	-

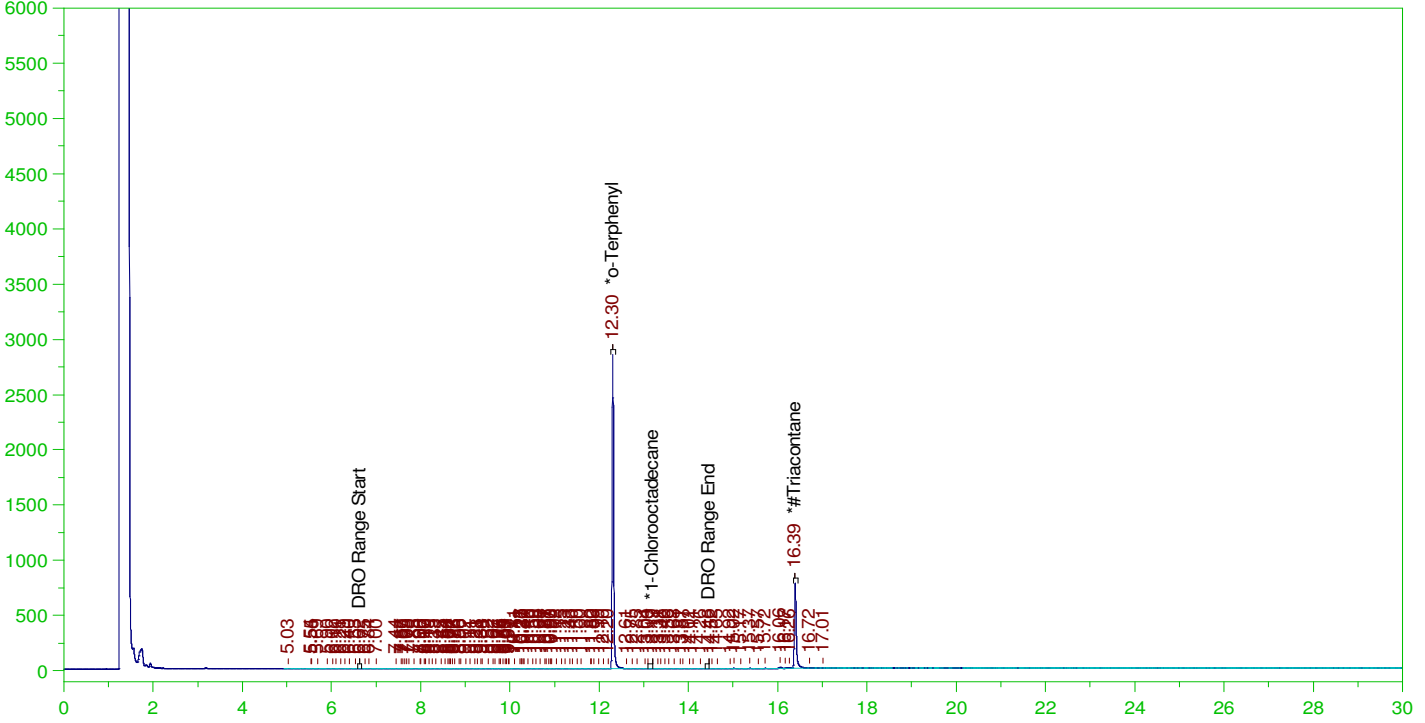
DRO Area:143958.7 DRO Amount: 4.450229E-03  
 TEH Area:310877.6 TEH Amount: 9.610233E-03

ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0048.RAW

B22011228-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011228-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0048.RAW  
 Date & Time Acquired: 1/25/2022 5:57:47 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.196	.168	85.52	-
*1-Chlorooctadecane	13.189	.196	.	.05	-
*#Triacontane	16.388	.196	.081	41.52	-

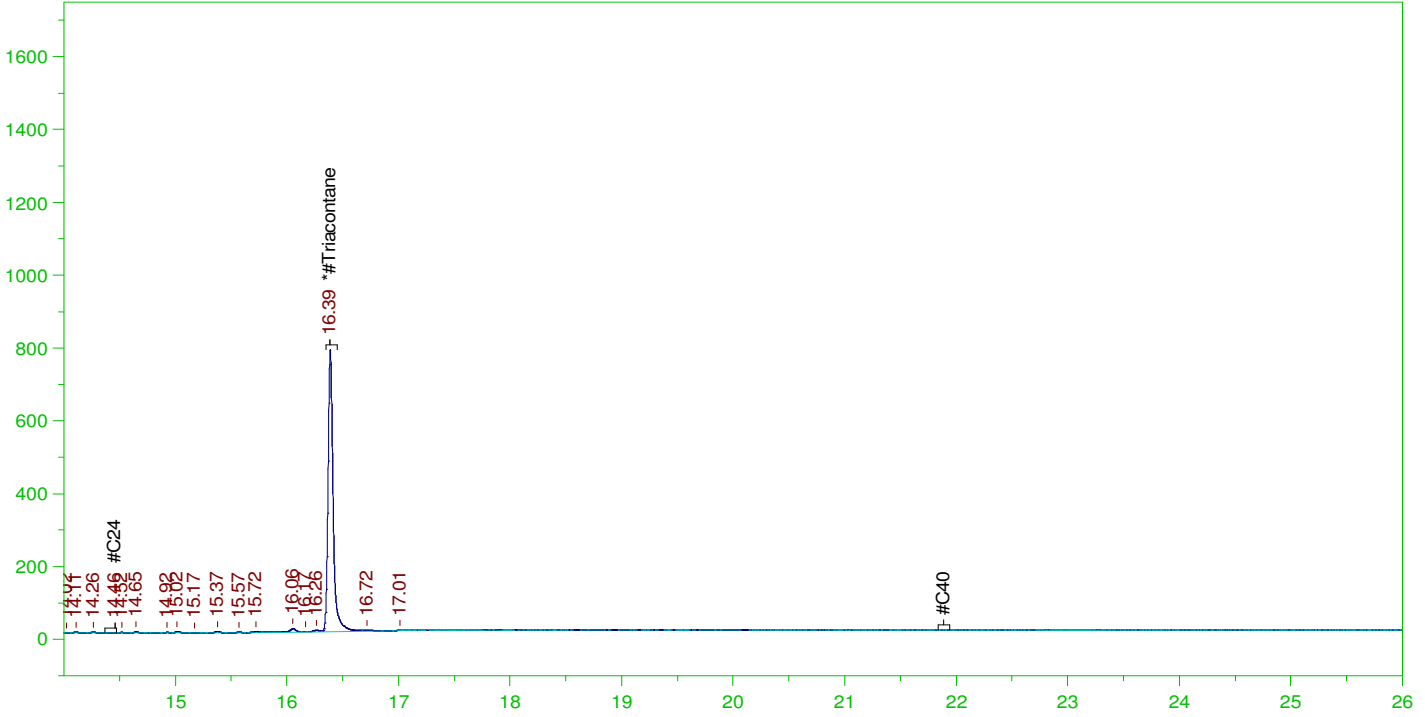
DRO Area:293337.1 DRO Amount: 8.801291E-03  
 TEH Area:452147 TEH Amount: 1.356623E-02

ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0048.RAW

B22011228-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011228-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0048.RAW  
 Date & Time Acquired: 1/25/2022 5:57:47 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.388	.49	.081	16.61	-

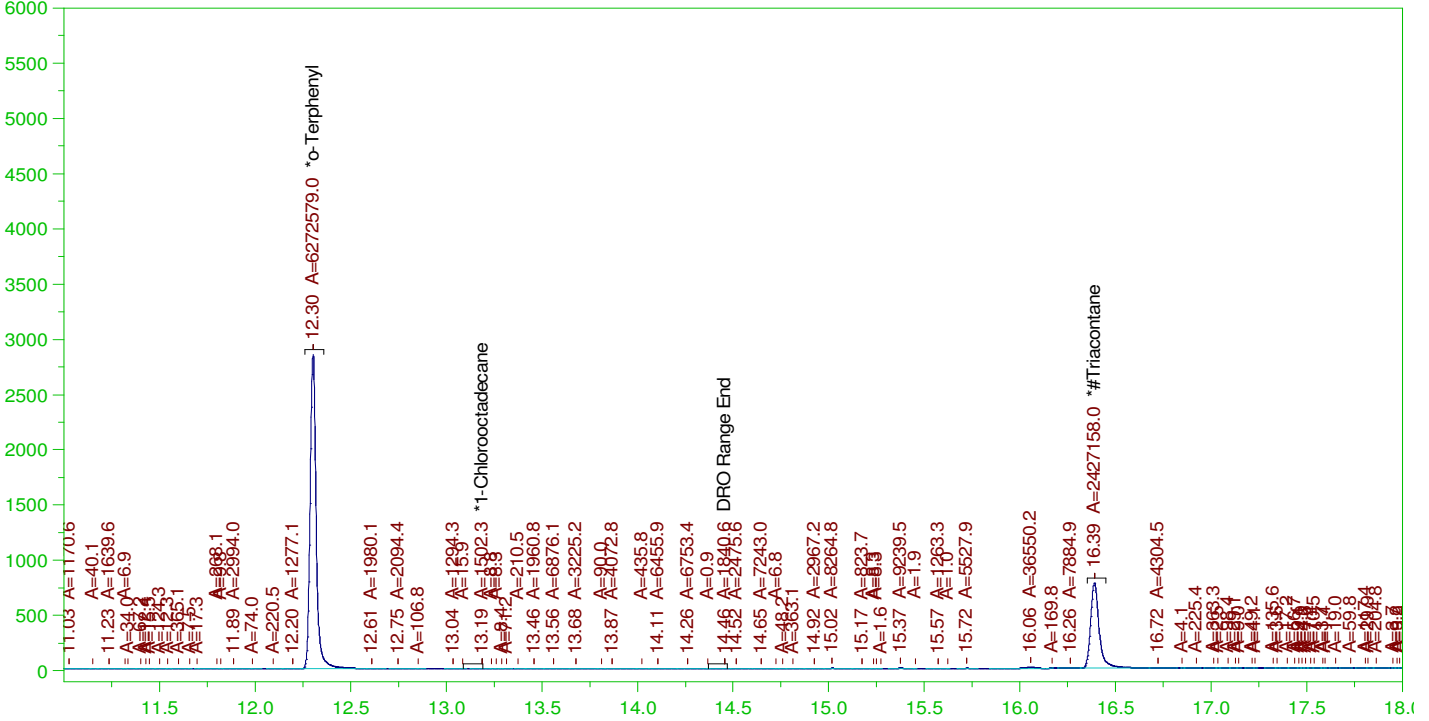
RRO Area:120801.1 RRO AMOUNT: 4.48191E-03

ERH2424 (RHMW14 Zone3)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0048.RAW

B22011228-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

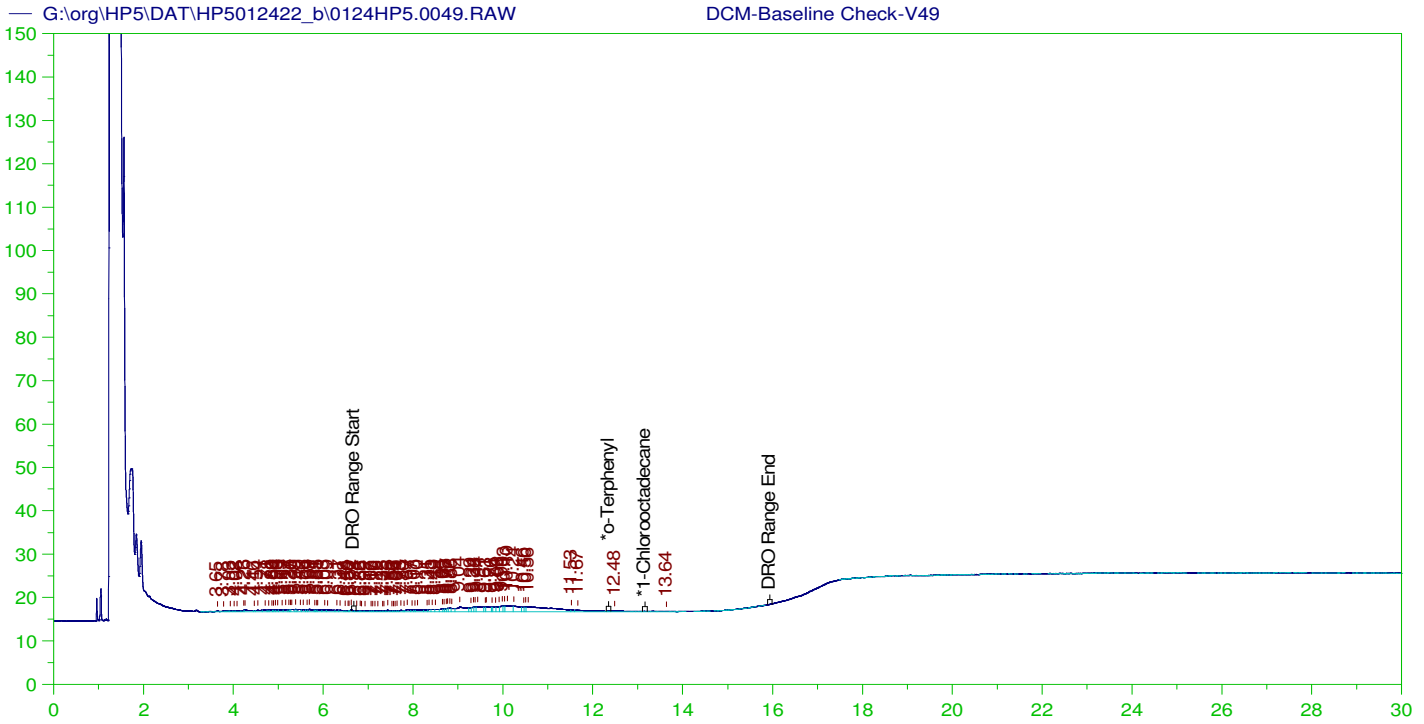
Sample Name: B22011228-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0048.RAW  
 Date & Time Acquired: 1/25/2022 5:57:47 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.196	.167	85.09	-
*1-Chlorooctadecane	13.189	.196	.	.02	-
*#Triacontane	16.388	.196	.08	40.95	-

DRO Area:150899.1 DRO Amount: 4.52758E-03  
 TEH Area:308559.6 TEH Amount: 9.258028E-03



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: DCM-Baseline Check-V49  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0049.RAW  
 Date & Time Acquired: 1/25/2022 6:40:41 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-JA-LEXP.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JA.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.937	200.	.	-
*1-Chlorooctadecane	29.937	200.	.	-

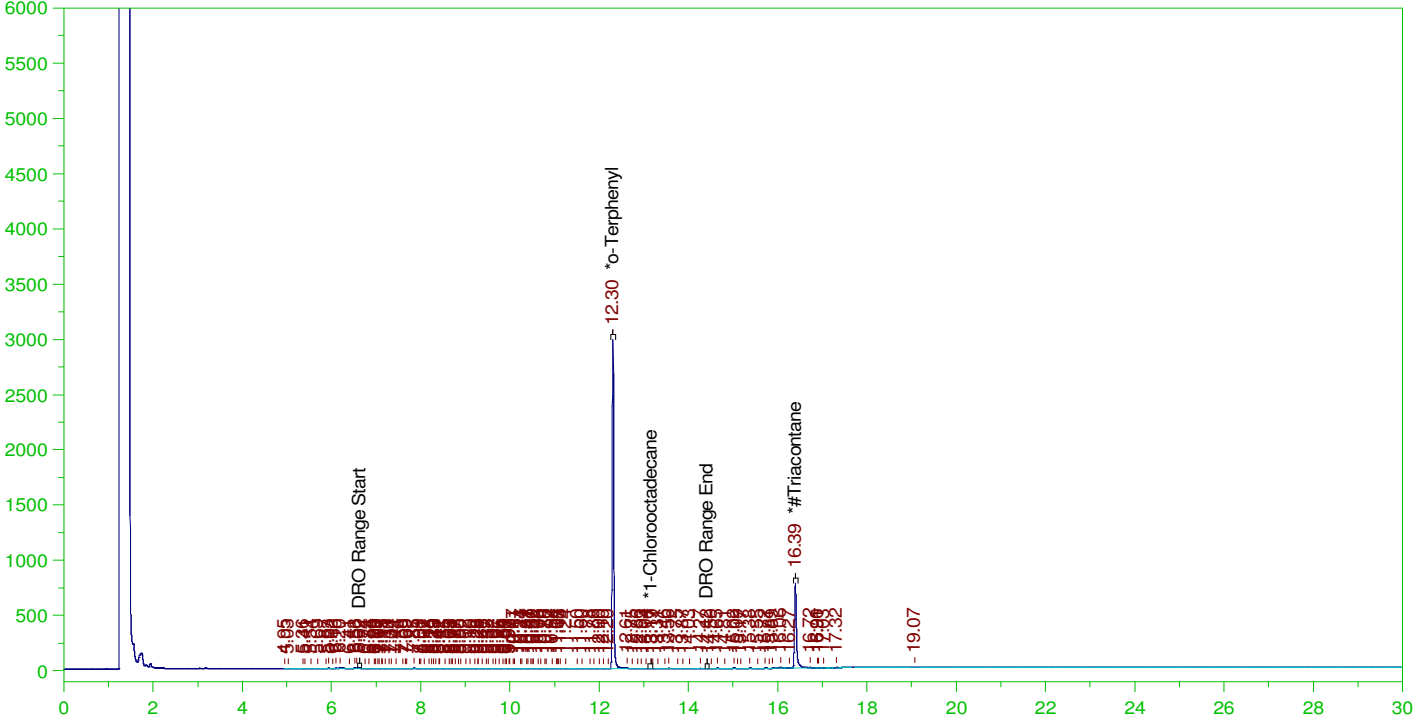
DRO Area: 226599.9 DRO Amount: 6.934885  
 TEH Area: 312396 TEH Amount: 9.560599

ERH2448 (OWDFMW04A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0050.RAW

B22011128-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011128-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0050.RAW  
 Date & Time Acquired: 1/25/2022 7:23:34 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.194	.174	89.85	-
*1-Chlorooctadecane	13.166	.194	.	.02	-
*#Triacontane	16.391	.194	.084	43.06	-

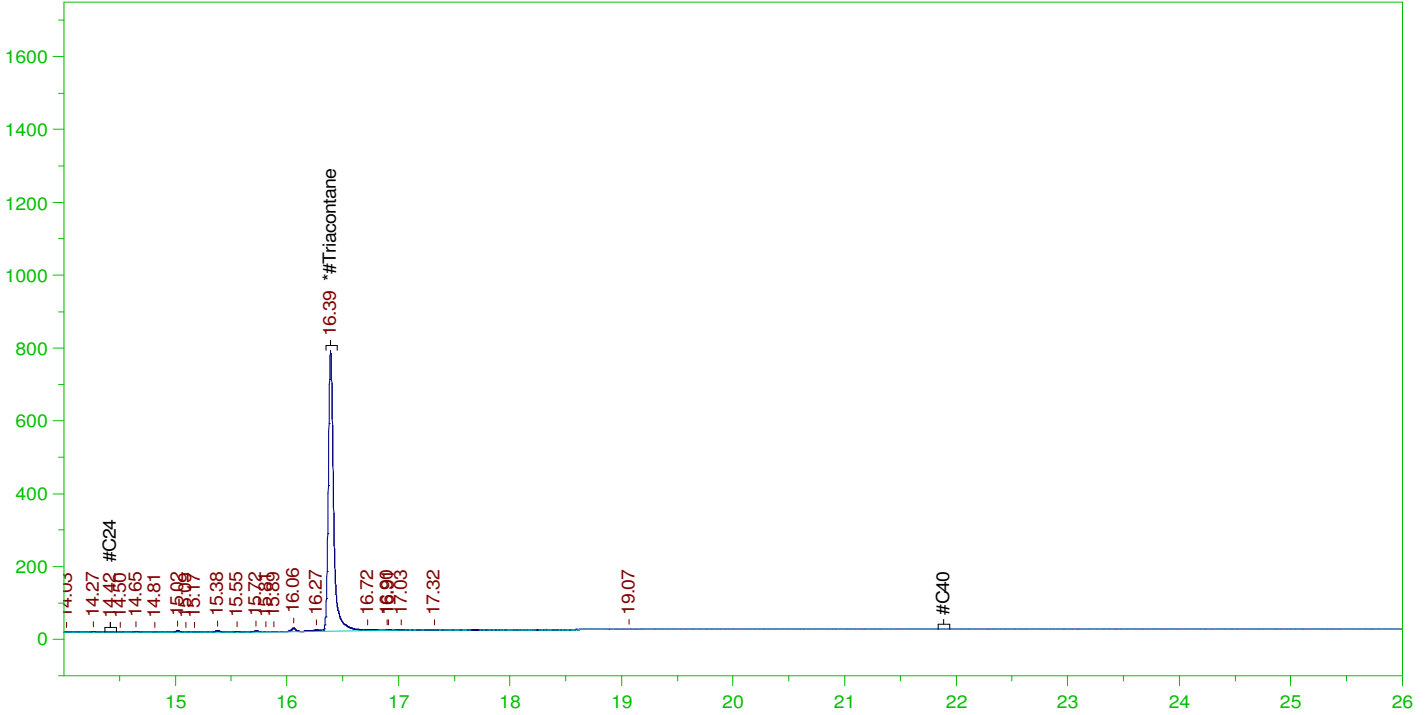
DRO Area:312919.2 DRO Amount: 9.297679E-03  
 TEH Area:551418.1 TEH Amount: 1.638413E-02

ERH2448 (OWDFMW04A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0050.RAW

B22011128-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011128-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0050.RAW  
 Date & Time Acquired: 1/25/2022 7:23:34 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.391	.485	.084	17.22

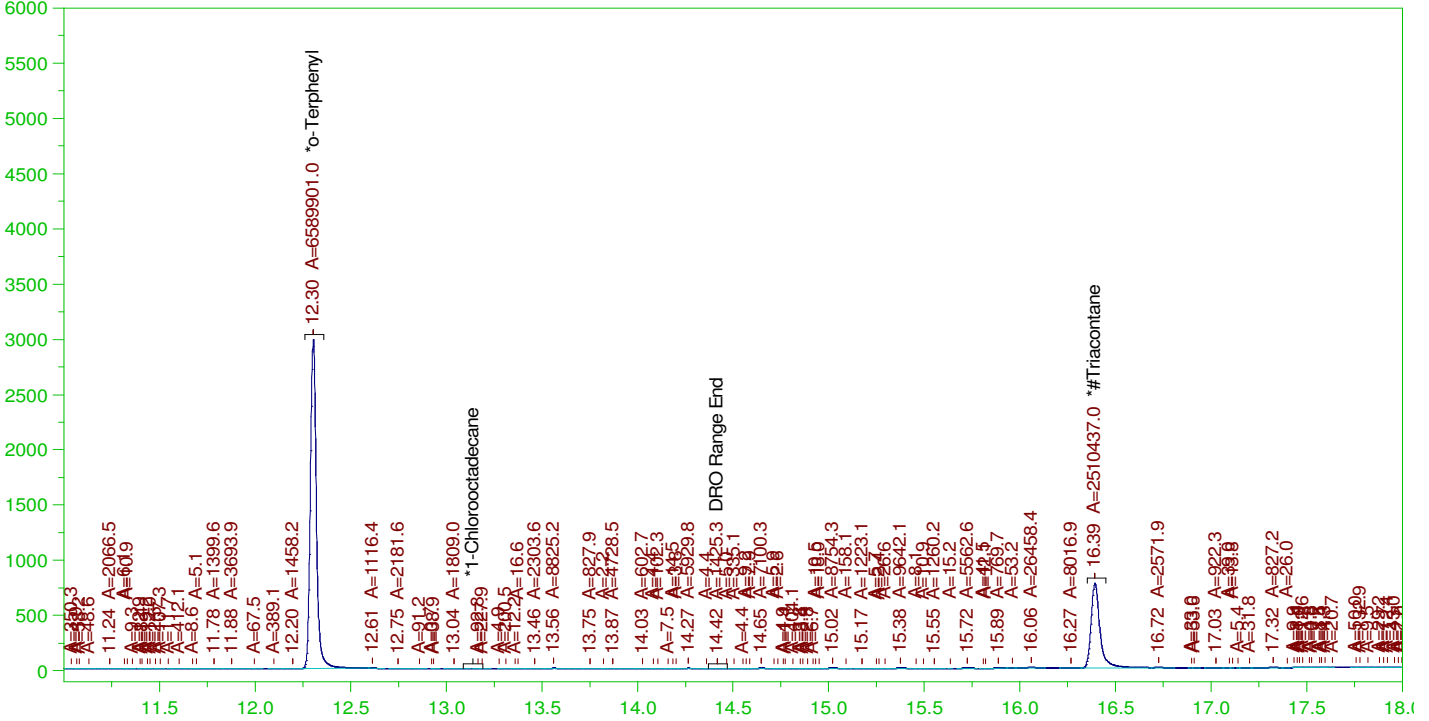
RRO Area:110803 RRO AMOUNT: 4.071052E-03

ERH2448 (OWDFMW04A)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0050.RAW

B22011128-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011128-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0050.RAW  
 Date & Time Acquired: 1/25/2022 7:23:34 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.305	.194	.174	89.4	-
*1-Chlorooctadecane	29.99	.194	.		-
*#Triacontane	16.391	.194	.082	42.35	-

DRO Area:213365 DRO Amount: 6.339654E-03  
 TEH Area:471970.4 TEH Amount: 1.402353E-02

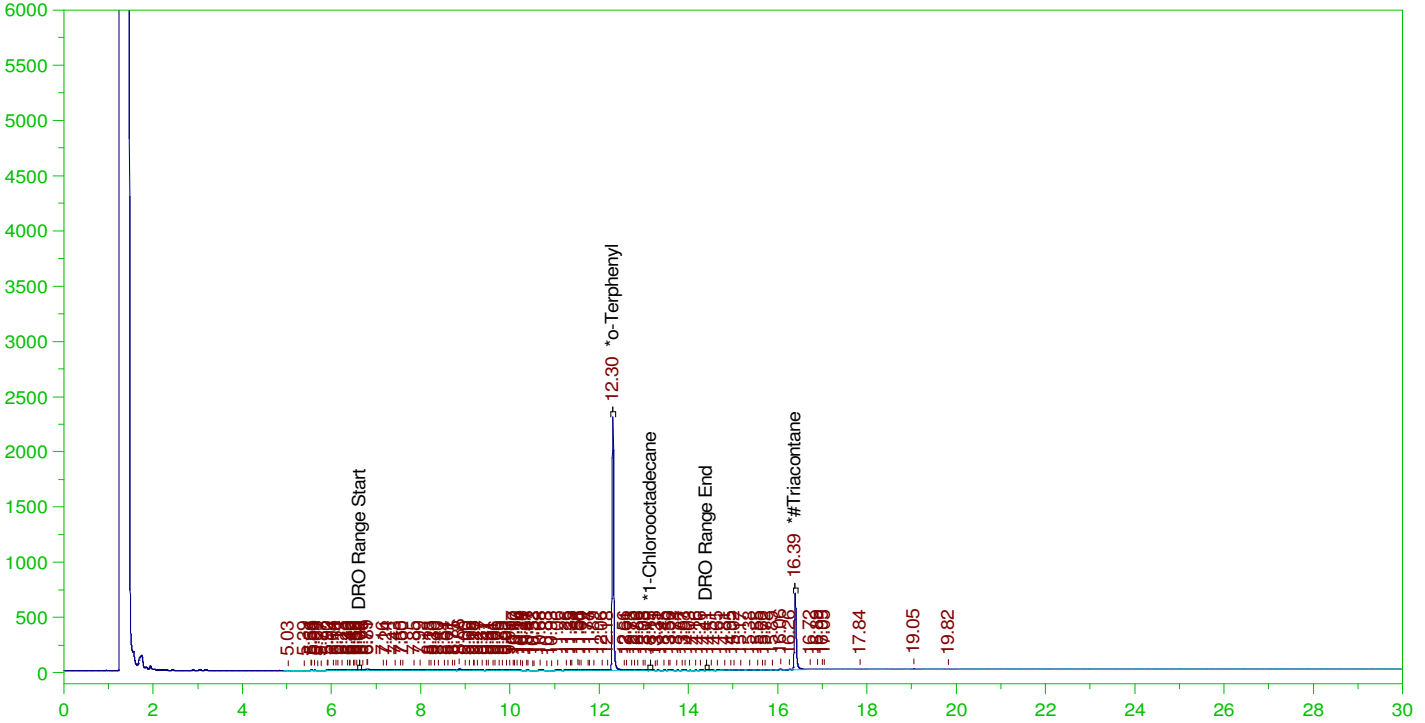


ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0051.RAW

B22011129-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22011129-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0051.RAW  
 Date & Time Acquired: 1/25/2022 8:06:20 PM  
 Method File: G:\Org\HP5\Methods\DR\_8015-C24T-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.19	.135	70.92	-
*1-Chlorooctadecane	13.147	.19	.	.08	-
*#Triacontane	16.389	.19	.071	37.2	-

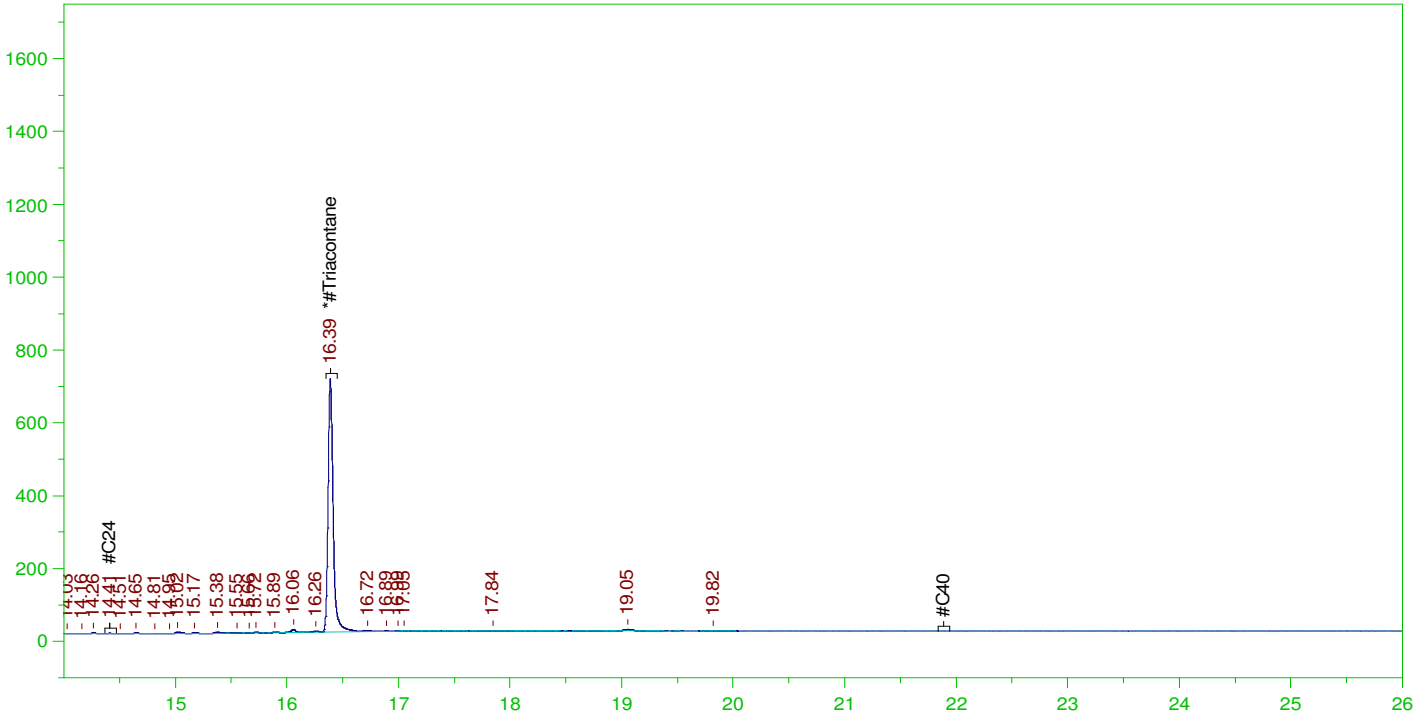
DRO Area: 719385.6 DRO Amount: 2.096776E-02  
 TEH Area: 974432.7 TEH Amount: 2.840156E-02

ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0051.RAW

B22011129-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: B22011129-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0051.RAW  
 Date & Time Acquired: 1/25/2022 8:06:20 PM  
 Method File: G:\Org\HP5\Methods\DR\_OROS-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC\_SAMP.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 14.37 to 21.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.389	.476	.071	14.88

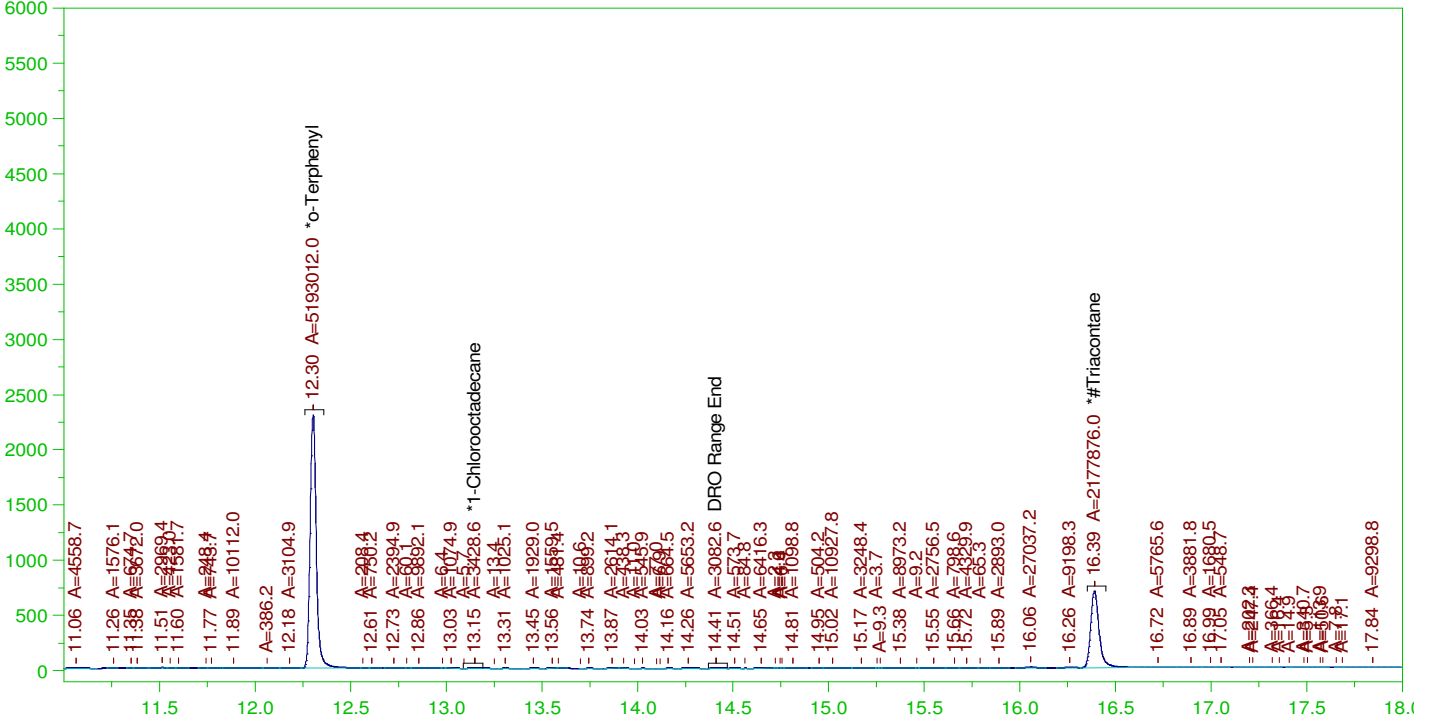
RRO Area:148629 RRO AMOUNT: 5.356816E-03

ERH2422 (RHMW04)

Batch ID: 163074

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0051.RAW

B22011129-001D ;0124HP5 , \$HC-8015-DRO-W, SGT



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

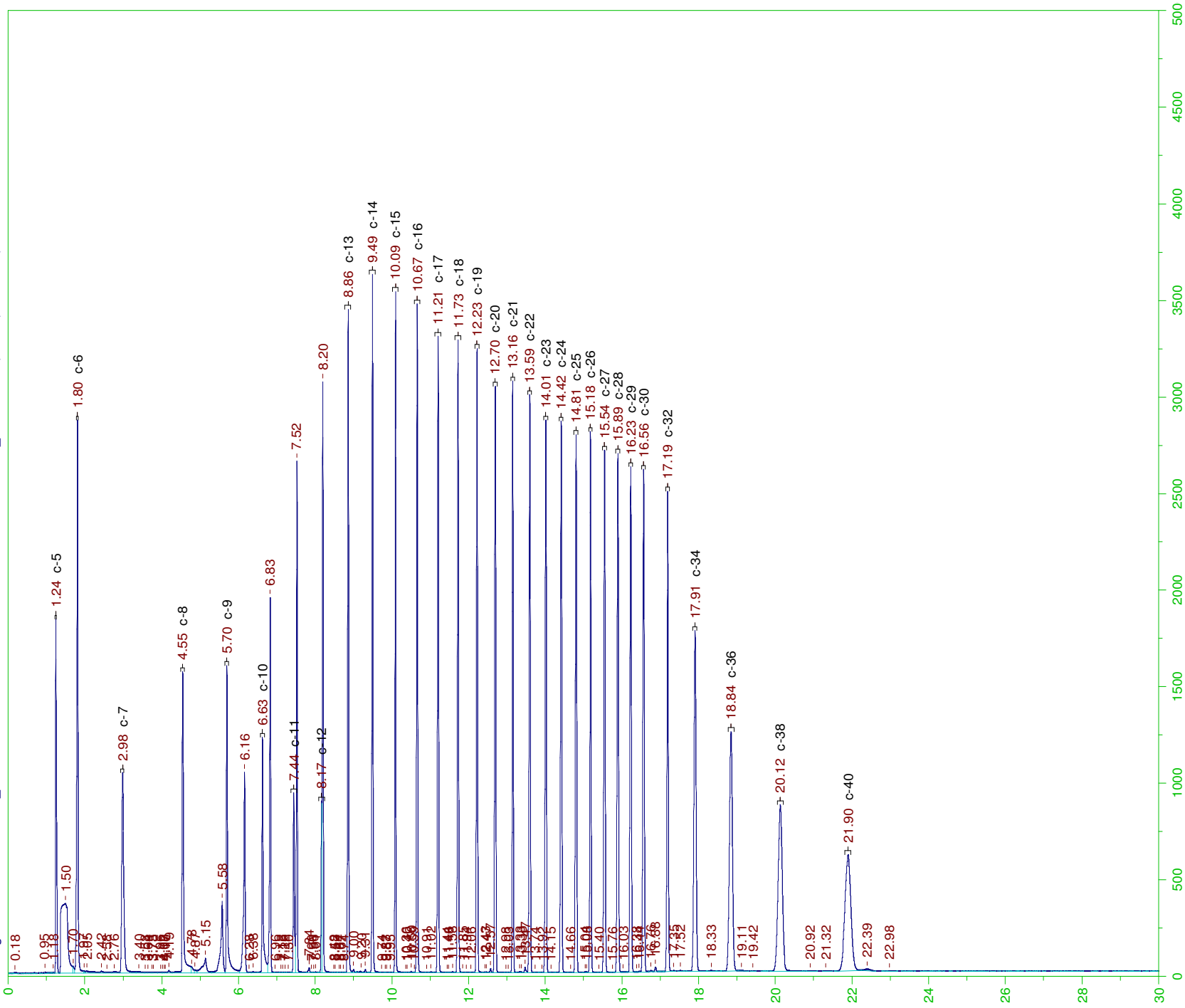
Sample Name: B22011129-001D ;0124HP5 , \$HC-8015-DRO-W, SGT  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0051.RAW  
 Date & Time Acquired: 1/25/2022 8:06:20 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24T-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24-T.CAL  
 Sample Weight: 1050 Dilution: 1 S.A.: 1

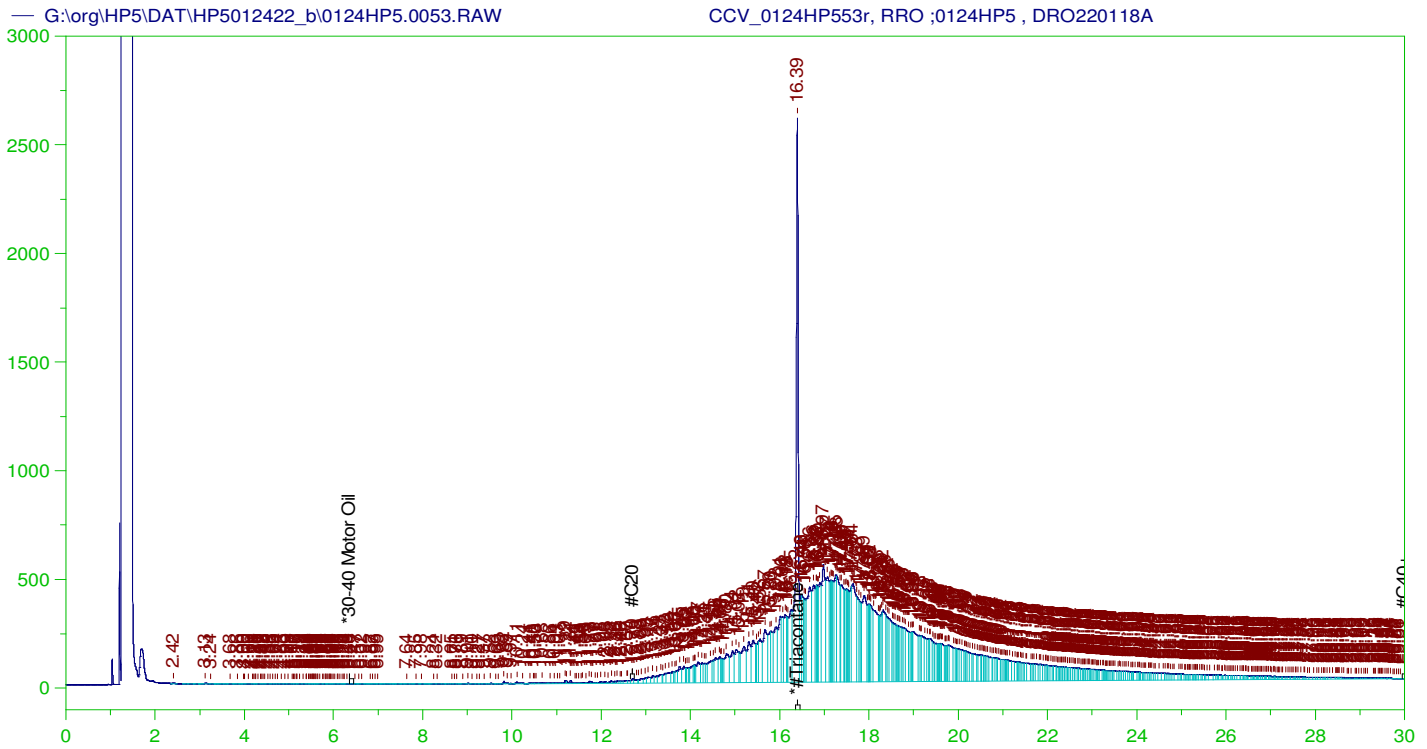
Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.303	.19	.134	70.45	-
*1-Chlorooctadecane	13.147	.19	.	.05	-
*#Triacontane	16.389	.19	.07	36.74	-

DRO Area:608058.4 DRO Amount: 1.772293E-02  
 TEH Area:993480 TEH Amount: 2.895673E-02





**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP553r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0053.RAW  
 Date & Time Acquired: 1/25/2022 9:31:52 PM  
 Method File: G:\Org\HP5\Methods\DC\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55  
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.65 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.39	500.	317.866	63.57	-

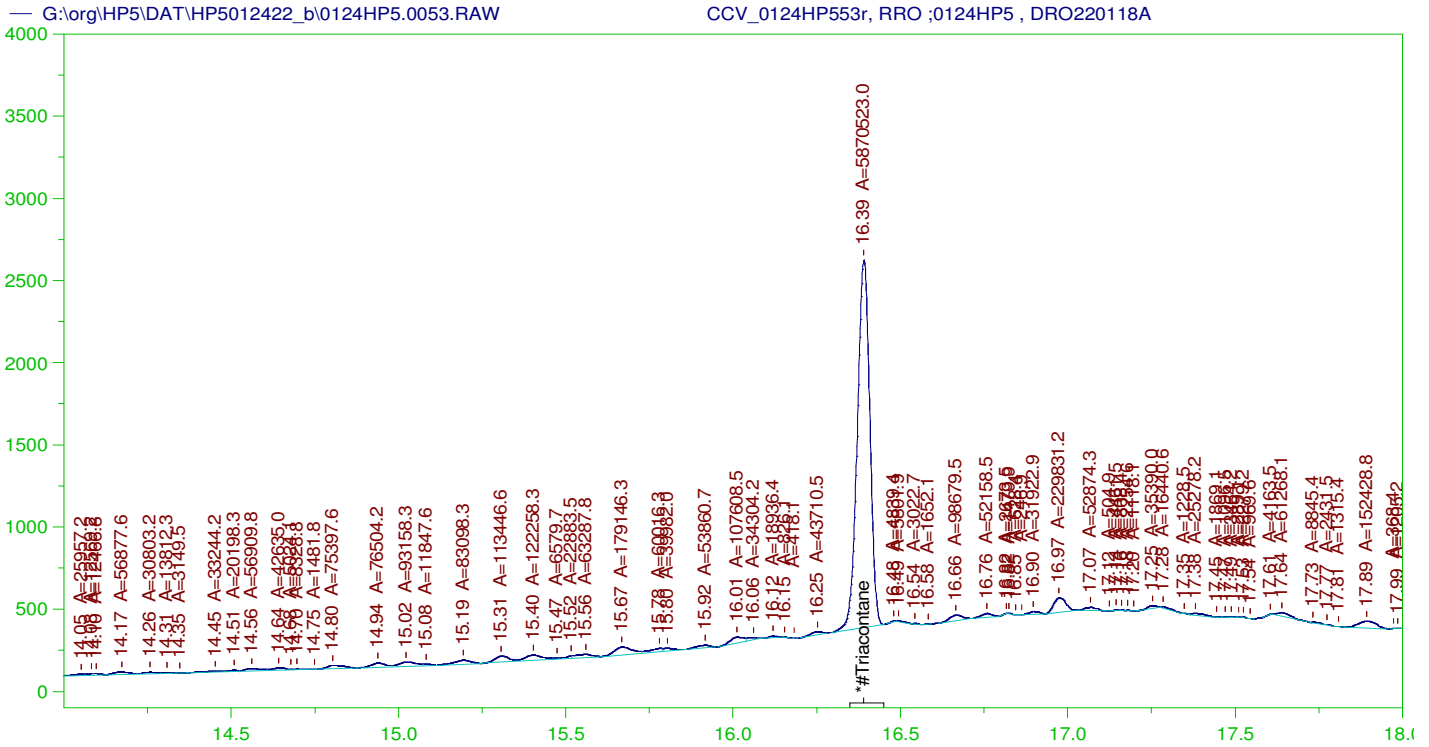
RRO TEH(Oil Range) Area:1.168166E+08 RRO TEH(Oil Range) AMOUNT: 4420.761

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0053.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.151	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.39	200.	317.866	158.93	75-125

AMN 02/15/2022



**RESIDUAL RANGE ORGANICS CHROMATOGRAM**

Sample Name: CCV\_0124HP553r, RRO ;0124HP5 , DRO220118A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0053.RAW  
 Date & Time Acquired: 1/25/2022 9:31:52 PM  
 Method File: G:\Org\HP5\Methods\DS\_ORO-BC-L%.MET  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_ORO220111BC.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55  
 Rt range for Residual Range Organics: 12.65 to 30.05

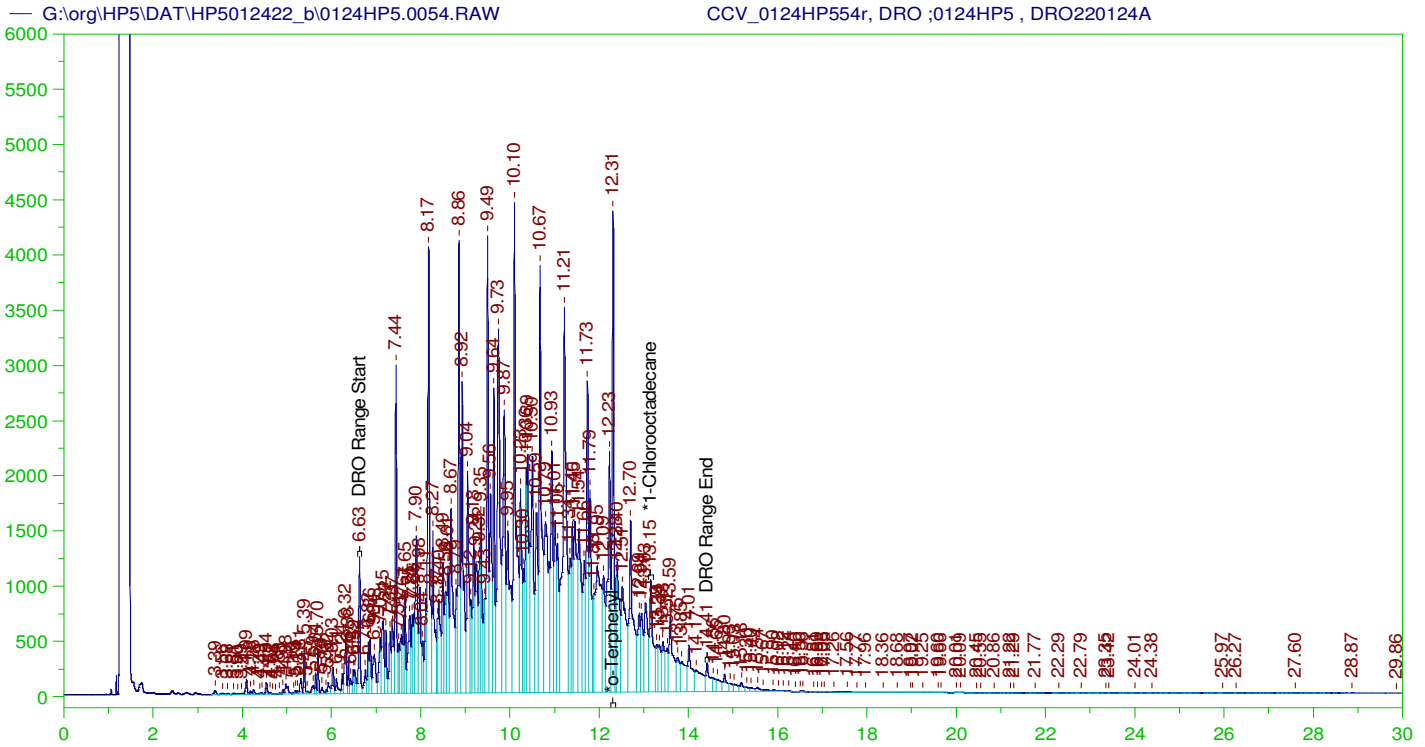
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.39	500.	198.087	39.62	-

RRO Area:2989965 RRO AMOUNT: 113.151

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0053.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.151	.	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.39	200.	198.087	99.04	75-125



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP554r, DRO ;0124HP5 , DRO220124A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0054.RAW  
 Date & Time Acquired: 1/25/2022 10:14:31 PM  
 Method File: G:\Org\HP5\Methods\DC\_8015-C24-JC-L%.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36  
 Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	200.	293.495	146.75
*1-Chlorooctadecane	13.154	200.	140.825	70.41

DRO Area: 4.294152E+08 DRO Amount: 13141.87  
 TEH Area: 4.441462E+08 TEH Amount: 13592.7

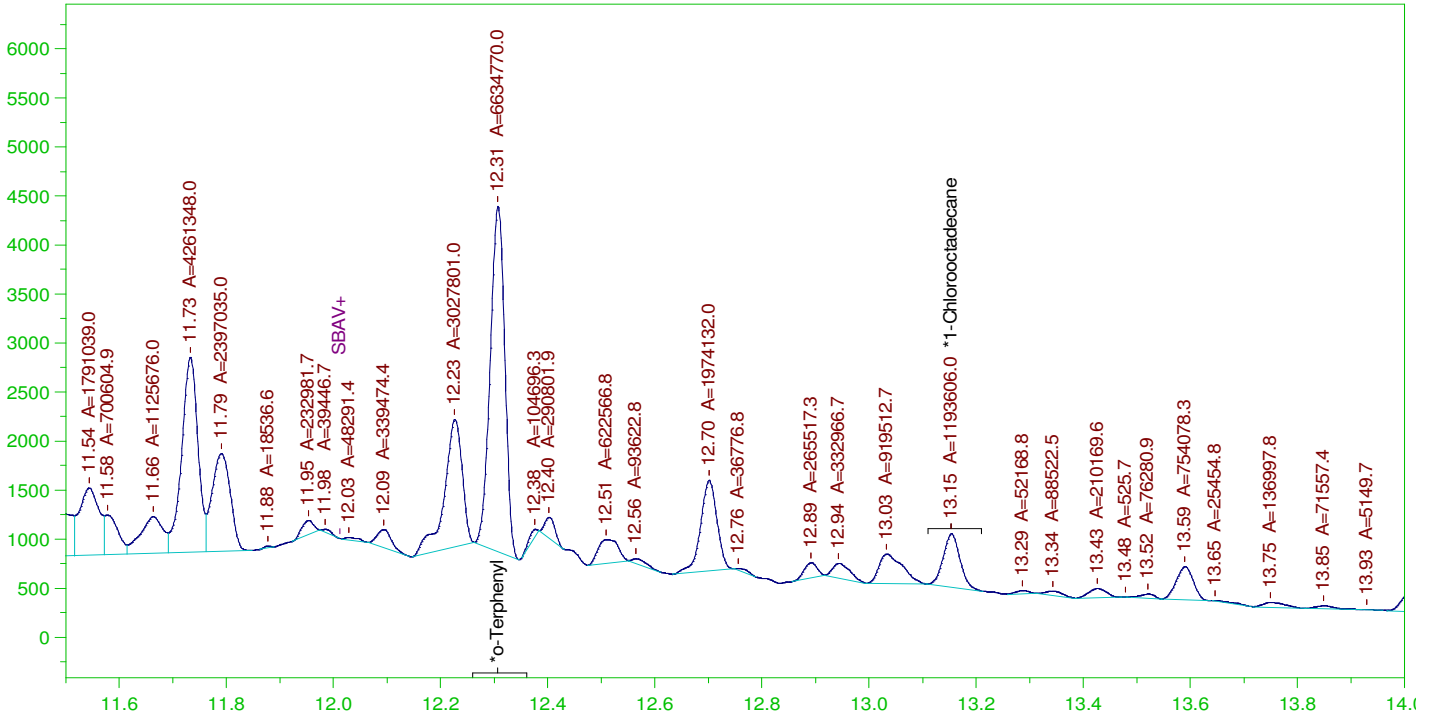
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0054.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	13592.7	90.62	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.307	200.	293.495	146.75	85-115
*1-Chlorooctadecane	13.154	200.	140.825	70.41	85-115

G:\org\HP5\DAT\HP5012422\_b\0124HP5.0054.RAW

CCV\_0124HP54r, DRO ;0124HP5 , DRO220124A



**DIESEL RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0124HP54r, DRO ;0124HP5 , DRO220124A  
 Raw File: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0054.RAW  
 Date & Time Acquired: 1/25/2022 10:14:31 PM  
 Method File: G:\Org\HP5\Methods\DS\_8015-C24-JC-L#.met  
 Calibration File: G:\Org\HP5\Cals\SW8015C\_DRO220111JC-C24.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.58 to 14.47

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.307	200.	180.01	90.
*1-Chlorooctadecane	13.154	200.	32.384	16.19

DRO Area: 2.215508E+08 DRO Amount: 6780.362  
 TEH Area: 2.312515E+08 TEH Amount: 7077.244

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5012422\_b\0124HP5.0054.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7077.24	47.18	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.307	200.	180.01	90.	85-115
*1-Chlorooctadecane	13.154	200.	32.384	16.19	85-115





G:\org\HP5\DAT\HP5012222_b0122HP5.24	B22011137-001D :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\I3_8015-C24T-JB-L%.met G:\Org\HP5\Methods\I3_OROS-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.25	DCM-Baseline Check-V25	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.26	B22011132-001D :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\DR_8015-C24T-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	1010	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.27	B22011134-001D :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\DR_8015-C24T-JB-L%.met G:\Org\HP5\Methods\DR_OROS-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	1000	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.28	B22011134-002B :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\I3_8015-C24T-JB-L%.met G:\Org\HP5\Methods\I3_OROS-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	990	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.29	DCM-Baseline Check-V29	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.30	B22011126-001D :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\I3_8015-C24T-JB-L%.met G:\Org\HP5\Methods\I3_OROS-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	1050	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.31	B22011128-001D :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\I3_8015-C24T-JB-L%.met G:\Org\HP5\Methods\I3_OROS-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.32	B22011125-001D :0122HP5 , \$HC-8015-DRO-W.	G:\Org\HP5\Methods\I3_8015-012232-JB-L%.met G:\Org\HP5\Methods\I3_OROS-012232-BBb-L%.MET G:\Org\HP5\Methods\I3_8015-C24T-BB-Lf.m	990	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.33	MARKER_0122HP533r_DRO :0122HP5 , DRO220111A	g:\org\HP5\Methods\CSC220120.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.34	CCV_0122HP534r_RRO :0122HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\I3_ORO-BB-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.35	CCV_0122HP535r_DRO :0122HP5 , DRO220114A	G:\Org\HP5\Methods\DC_8015-C24-JB-L%.met G:\Org\HP5\Methods\I3_8015-C24-JB-Lf.m	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.36	DCM-Baseline Check-V36	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.37	DCM-Baseline Check-V37	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.38	B22011228-001D :0122HP5 , \$HC-8015-DRO-W. Needs Rerun due to ending CCV not peking	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1020	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.39	B22011135-001D :0122HP5 , \$HC-8015-DRO-W. Needs Rerun due to ending CCV not peking	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	990	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.40	B22011129-001D :0122HP5 , \$HC-8015-DRO-W. Needs Rerun due to ending CCV not peking	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1050	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.41	DCM-Baseline Check-V41	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.42	B22011214-001D :0122HP5 , \$HC-8015-DRO-W. Needs rr due to baseline	G:\Org\HP5\Methods\DR_8015-C24T-JB-L0.met	1000	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.43	B22011227-001D :0122HP5 , \$HC-8015-DRO-W. Needs rr due to baseline	G:\Org\HP5\Methods\DR_8015-C24T-JB-L0.met	990	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.44	LCS-163074-RRO :0122HP5 ,	G:\Org\HP5\Methods\I3_ORO-BB-L%.MET G:\Org\HP5\Methods\I3_ORO-BB-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.45	DCM-Baseline Check-V45	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.46	B22011136-001DMS-RRO :0122HP5 ,	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\I3_ORO-BB-L%.MET	1000	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.47	B22011136-001DMS-RRO :0122HP5 ,	G:\Org\HP5\Methods\I3_ORO-BB-L%.MET G:\Org\HP5\Methods\I3_ORO-BB-L%.MET	1030	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.48	MARKER_0122HP548r_DRO :0122HP5 , DRO220111A	g:\org\HP5\Methods\CSC220120.met	1	1	1	1	0	No integrations.
G:\org\HP5\DAT\HP5012222_b0122HP5.49	CCV_0122HP549r_RRO :0122HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BB-L%.MET G:\Org\HP5\Methods\I3_ORO-BB-L%.MET	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012222_b0122HP5.50	CCV_0122HP550r_DRO :0122HP5 , DRO220114A-lost communication with acquisition did not poke any vial just ran	G:\Org\HP5\Methods\DC_8015-C24-JB-L0.met	1	1	1	1	0	No integrations.

*Ann Nebel*

Digitally signed by  
Ann Nebel  
Date: 2022.02.15 15:09:41 -07:00



Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj	IS	Cal ID	Manual Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.12 G:\org\HP5\DAT\HP5012422_b\0124HP5.13	MARKER_0124HP512r, DRO_0124HP5, DRO220111A CCV_0124HP513r, RRO_0124HP5, DRO220118A		G:\org\HP5\Methods\CSC220124.met G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.14	CCV_0124HP514r, DRO_0124HP5, DRO220114A		G:\org\HP5\Methods\DC_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.15 G:\org\HP5\DAT\HP5012422_b\0124HP5.16 G:\org\HP5\DAT\HP5012422_b\0124HP5.17	DCM-Baseline Check-V15 DCM-Baseline Check-V16 LCS-163074_0124HP5, SGT		G:\org\HP5\Methods\DR_8015-JA-LEXP.met G:\org\HP5\Methods\DR_8015-JA-LEXP.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1 1 1000	1 1 1	1 1 1	1 1 1	1 1 1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.18 G:\org\HP5\DAT\HP5012422_b\0124HP5.19	MB-163074_0124HP5, SGT-Needs rerun due to baseline rise BZ2011125-001D_0124HP5, SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\DR_8015-C24T-JB-L0.met G:\org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24T-JC-L%.met	1000 990	1 1	1 1	1 1	1 1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.20 G:\org\HP5\DAT\HP5012422_b\0124HP5.21	BZ2011136-001D_0124HP5, SHC-8015-DRO-W, SGT Needs rerun due to baseline rise BZ2011136-001DMS_0124HP5, SGT		G:\org\HP5\Methods\DR_8015-C24T-JB-L0.met G:\org\HP5\Methods\DR_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1010 1010	1 1	1 1	1 1	1 1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.22	BZ2011136-001DMS_0124HP5, SGT		G:\org\HP5\Methods\DS_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1010	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.23	BZ2011136-001DMS-RRO_0124HP5, SGT		G:\org\HP5\Methods\DS_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1000	1	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.24 G:\org\HP5\DAT\HP5012422_b\0124HP5.25	DCM-Baseline Check-V24 BZ2011136-001DMS-RRO_0124HP5, SGT		G:\org\HP5\Methods\DR_8015-JA-LEXP.met G:\org\HP5\Methods\DS_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1 1030	1 1	1 1	1 1	1 1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.26 G:\org\HP5\DAT\HP5012422_b\0124HP5.27	DCM-Baseline Check-V26 LCS-163074-RRO_0124HP5, SGT		G:\org\HP5\Methods\DR_8015-JA-LEXP.met G:\org\HP5\Methods\DS_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1 1000	1 1	1 1	1 1	1 1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.28 G:\org\HP5\DAT\HP5012422_b\0124HP5.29	MARKER_0124HP528r, DRO_0124HP5, DRO220111A CCV_0124HP529r, RRO_0124HP5, DRO220118A		G:\org\HP5\Methods\CSC220124.met G:\org\HP5\Methods\DC_ORO-BC-L%.MET G:\org\HP5\Methods\DS_ORO-BC-L%.MET	1 1	1 1	1 1	1 1	1 1	0 No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.30	CCV_0124HP530r, DRO_0124HP5, DRO220124A		G:\org\HP5\Methods\DC_8015-C24-JC-L%.met G:\org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.31 G:\org\HP5\DAT\HP5012422_b\0124HP5.32 G:\org\HP5\DAT\HP5012422_b\0124HP5.33	DCM-Baseline Check-V31 DCM-Baseline Check-V32 BZ2011126-001D_0124HP5, SHC-8015-DRO-W, SGT		G:\org\HP5\Methods\DR_8015-JA-LEXP.met G:\org\HP5\Methods\DR_8015-JA-LEXP.met G:\org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\org\HP5\Methods\DR_OROS-BC-L%.MET G:\org\HP5\Methods\DS_8015-C24T-JC-L%.met	1 1 1050	1 1 1	1 1 1	1 1 1	1 1 1	0 No Integrations

G:\org\HP5\DAT\HP5012422_b\0124HP5.34	MB-163074 ,0124HP5 , RR-SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	1000	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.35	B22011136-001D ,0124HP5 , \$HC-8015-DRO-W, RR-SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	1010	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.36	B22011134-001D ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	1000	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.37	B22011134-002B ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	990	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.38	DCM-Baseline Check-V38	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.39	B22011135-001D ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	990	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.40	B22011137-001D ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	1030	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.41	B22011214-001D ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	1000	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.42	MARKER 0124HP542r, DRO ,0124HP5 , DRO220111A	G:\org\HP5\Methods\CSO220124.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.43	CCV_0124HP543r, RRO ,0124HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BC-L%.MET G:\Org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-19 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.44	CCV_0124HP544r, DRO ,0124HP5 , DRO220124A	G:\Org\HP5\Methods\DC_8015-C24-JC-L%.met G:\Org\HP5\Methods\DS_8015-C24-JC-L%.met	1	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.45	DCM-Baseline Check-V45	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.46	DCM-Baseline Check-V46	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.47	B22011227-001D ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	990	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.48	B22011228-001D ,0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L%.met	1020	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.49	DCM-Baseline Check-V49	G:\Org\HP5\Methods\DR_8015-JA-LEXP.met	1	1	1	1	1	0	No Integrations

G:\org\HP5\DAT\HP5012422_b\0124HP5.50	B22011128-001D_0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	1030	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.51	B22011129-001D_0124HP5 , \$HC-8015-DRO-W, SGT	G:\Org\HP5\Methods\DR_8015-C24T-JC-L%.met G:\Org\HP5\Methods\DR_OROS-BC-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JC-L#.met	1050	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.12 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.52	MARKER_0124HP552, DRO_0124HP5 , DRO220111A	G:\org\HP5\Methods\CSC220124.met	1	1	1	1	1	0	No Integrations
G:\org\HP5\DAT\HP5012422_b\0124HP5.53	CCV_0124HP553, RRO_0124HP5 , DRO220118A	G:\Org\HP5\Methods\DC_ORO-BC-L%.MET G:\Org\HP5\Methods\DS_ORO-BC-L%.MET	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes.
G:\org\HP5\DAT\HP5012422_b\0124HP5.54	CCV_0124HP554r, DRO_0124HP5 , DRO220124A	G:\Org\HP5\Methods\DC_8015-C24-JC-L%.met G:\Org\HP5\Methods\DS_8015-C24-JC-L#.met	1	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes.

*Ann Nebel*

Digitally signed by  
Ann Nebel  
Date: 2022.02.15 15:10:15 -07:00



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO180126C

**Standard Name:** 2-Fluorobiphenyl

**Prep Date:** 1/26/2018

**Exp Date:** 10/31/2024

**Department:** dropr

**Vendor:** Chemservice

**Lot Number:** 5599700

**Balance ID:**

**Comments:**

**Type:** Neat

**Prep By:** Todd C Cooper

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
2-Fluorobiphenyl	<a href="#">10069</a>		mL	10/31/2024
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO180823A

**Standard Name:** 2-Bromonaphthalene

**Prep Date:** 8/22/2016

**Exp Date:** 5/31/2022

**Department:** dropr

**Vendor:** Chemservice

**Lot Number:** 3150700

**Balance ID:**

**Comments:**

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
2-Bromonaphthalene	<a href="#">10701</a>		mL	5/31/2022
Stock Source	Base Units	Amount Added		





# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO181105A

**Standard Name:** #2 Diesel (NEAT)

**Prep Date:** 11/5/2018

**Exp Date:** 11/5/2023

**Department:** dropr

**Vendor:** conoco

**Lot Number:**

**Balance ID:**

**Comments:** -18 Cloud peak. (Conoco Gas Sation 1240 S. 27th Billings, MT) 2nd Source

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 250 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
				11/5/2023
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO200430B  
**Standard Name:** O-Terphenyl  
**Prep Date:** 4/30/2020  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:** Chemservice  
**Lot Number:** 9972100  
**Balance ID:**  
**Comments:** ID#: 6271

**Type:** Neat  
**Prep By:** Ann Nebel  
**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
o-Terphenyl	<a href="#">12650</a>	500	mg	9/30/2024
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO201014C

**Standard Name:** 1-Chlorooctadecane

**Prep Date:** 10/14/2019

**Exp Date:** 12/31/2024

**Department:** dropr

**Vendor:** CSI1

**Lot Number:** 10809500

**Balance ID:**

**Comments:** Date Certified: 12/9/16 ; N-10042-1G; 99.5% purity

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
1-Chlorooctadecane	<a href="#">13192</a>	1	g	12/31/2024

Stock Source	Base Units	Amount Added
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# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO201014D

**Standard Name:** n-Pentacosane

**Prep Date:** 10/14/2020

**Exp Date:** 2/28/2025

**Department:** dropr

**Vendor:** Chem Service

**Lot Number:** 9642200

**Balance ID:**

**Comments:** C-25; Used in AKDRO Marker

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
n-Pentacosane	<a href="#">13193</a>	100	mg	2/28/2025
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO211012B

**Standard Name:** #2 Diesel in Acetone 150,000 ug/mL

**Prep Date:** 10/12/2021

**Exp Date:** 11/5/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** #2 Diesel in Acetone 150,000 ug/mL.

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone EA662	<a href="#">14050</a>	25	mL	11/5/2023

Stock Source	Base Units	Amount Added
DRO181105A	ug/mL	3.7507 g



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO211025B

**Standard Name:** Ali Hydro Std 1000ug/mL

**Prep Date:** 10/25/2021

**Exp Date:** 11/30/2024

**Department:** dropr

**Vendor:** Agilent

**Lot Number:** 0006643302

**Balance ID:**

**Comments:** Ali Hydro Std 1000ug/mL For CCVs.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Aliphatic Hydrocarbon Standard	<a href="#">14434</a>	1	mL	11/30/2024
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Spike ID:** DRO211101A

**Spike Name:** OTP-4000 ug/mL DCM

**Prep Date:** 11/1/2021

**Exp Date:** 9/30/2024

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Used to Prep DRO-8015 ICAL and CCV Solutions

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC328	<a href="#">14408</a>	25	mL	9/30/2024

Stock Source	Base Units	Amount Added
DRO200430B	ug/mL	0.1012 g



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO211214C

**Standard Name:** Diesel Fuel #2 50,000 ug/mL in DCM

**Prep Date:** 12/14/2021

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** LRAC6316

**Balance ID:**

**Comments:** Diesel Fuel #2 For CCVs.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Diesel Fuel No. 2	<a href="#">14623</a>	1	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	





# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO211222B

**Standard Name:** EPH (4) SURR-1000 ug/mL ea. in Hexane

**Prep Date:** 12/22/2021

**Exp Date:** 5/31/2022

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** EPH (4) SURR-1000 ug/mL ea. in Hexane

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** Open

**Final Volume:** 50 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Hexane EB754	<a href="#">14543</a>	50	mL	5/31/2022

Stock Source	Base Units	Amount Added
DRO180823A	ug/mL	0.0507 g
DRO200430B	ug/mL	0.0504 g
DRO180126C	ug/mL	0.0496 g
DRO201014C	ug/mL	0.0504 g



# Analytical RunID GCFID-HP5-B\_220111A Standards Traceability Report

**Standard ID:** DRO220102D

**Standard Name:** ALASKA MARKER-200ug/mL

**Prep Date:** 1/2/2022

**Exp Date:** 5/31/2022

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** ALASKA MARKER w/ C-10, C-25, and OTP/COD. Optimal C-25 is 0.0012g.

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 5.5 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Hexane EB754	<a href="#">14543</a>	3.3	mL	5/31/2022

Stock Source	Base Units	Amount Added
DRO201014D	ug/mL	0.0016 g
DRO211222B	ug/mL	1.1 mL
DRO211025B	ug/mL	1.1 mL

# 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

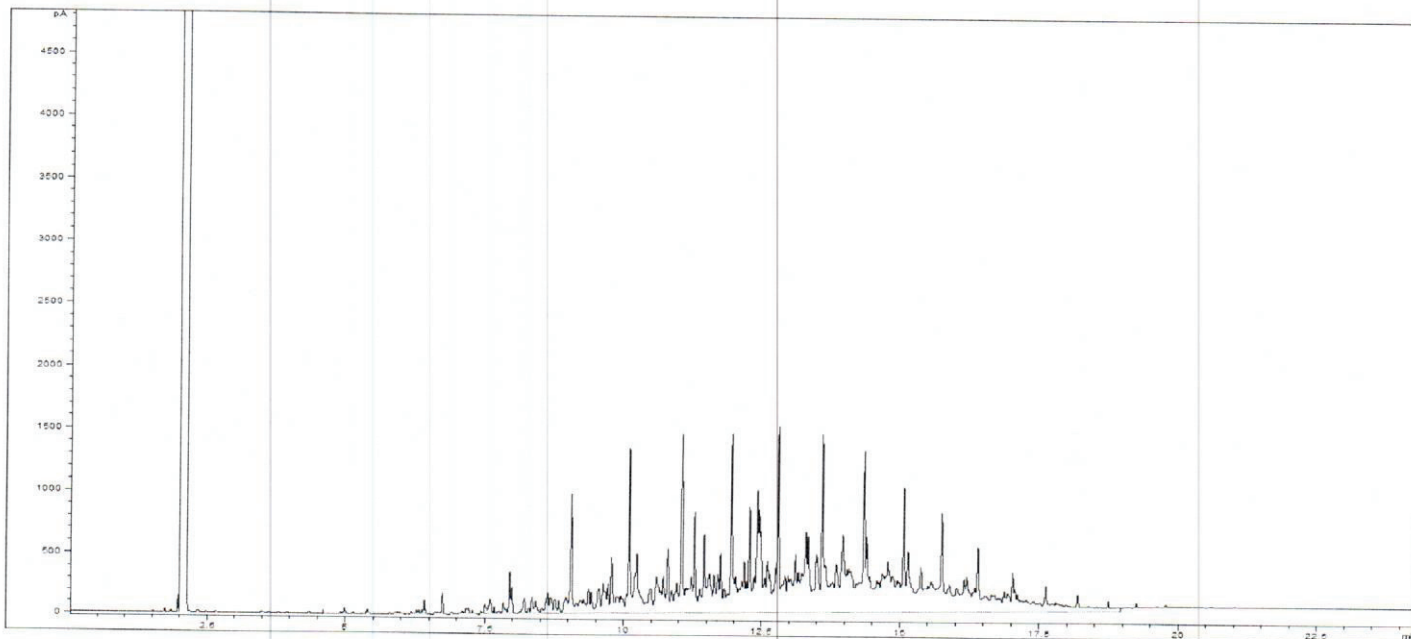
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

## Certified Values

Analyte	Certified Value <sup>1,4</sup>	Units	Raw Material Purity, %	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

## Informational Values



## Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H<sub>2</sub>, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



**SIGMA-ALDRICH**

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA  
800-325-5832  
TechService@milliporesigma.com www.sigma-aldrich.com

# Description

Lot **LRAC6316**  
Expiration Date April 2023  
Manufacturing Date April 2020  
Storage Conditions Room Temperature  
Solvent/Matrix DICHLOROMETHANE

**1 Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.  
**4 Ucrm - Uncertainty values** in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$U_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**k:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

**6 Analytical Value-** For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

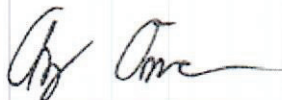
**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Homogeneity:** Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

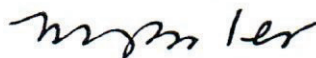
MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

**THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).**



Andy Ommen - QC Manager

Certification Date April 30, 2020  
Version 0-4302020



Mark Pooler - QA Supervisor



Anna

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### o-Terphenyl

CATALOG NUMBER N-12693-500MG  
LOT NUMBER 9972100  
DATE CERTIFIED 09/23/19  
EXPIRATION DATE 09/30/24  
CAS NUMBER 84-15-1  
MOLECULAR FORMULA C18H14  
MOLECULAR WEIGHT 230.32  
STORAGE Store in a cool dry place.  
HANDLING See Safety Data Sheet  
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

*Mary Beth O'Donnell*

Mary Beth O'Donnell  
CSM/TC

ID #: 12650

Opened: \_\_\_\_\_

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energx Laboratories Inc 1120 So. 27th Street

Billings MT 59107

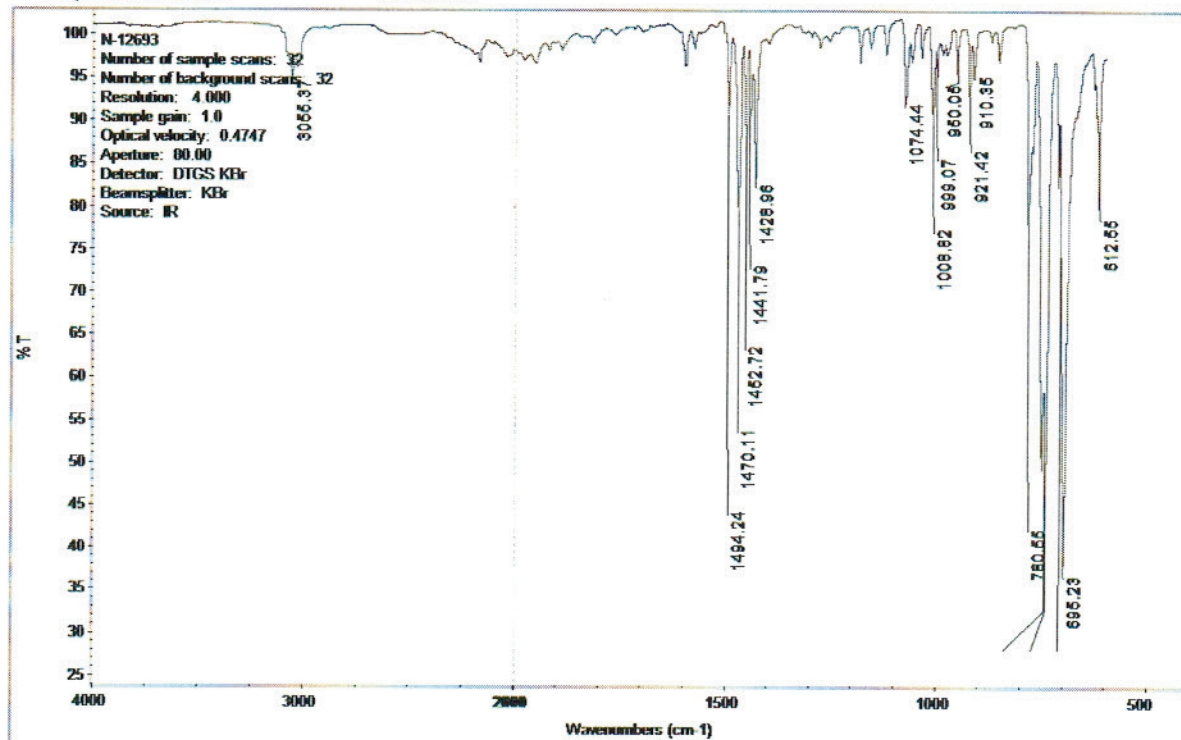
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Chem Service Inc      Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D  
Acq On : 23 Sep 2019 10:40  
Operator :  
Sample : n-12693  
Misc :  
ALS Vial : 95

Integration Parameters: autoint1.e  
Integrator: ChemStation

DataAcq Meth: SCREEN.M  
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

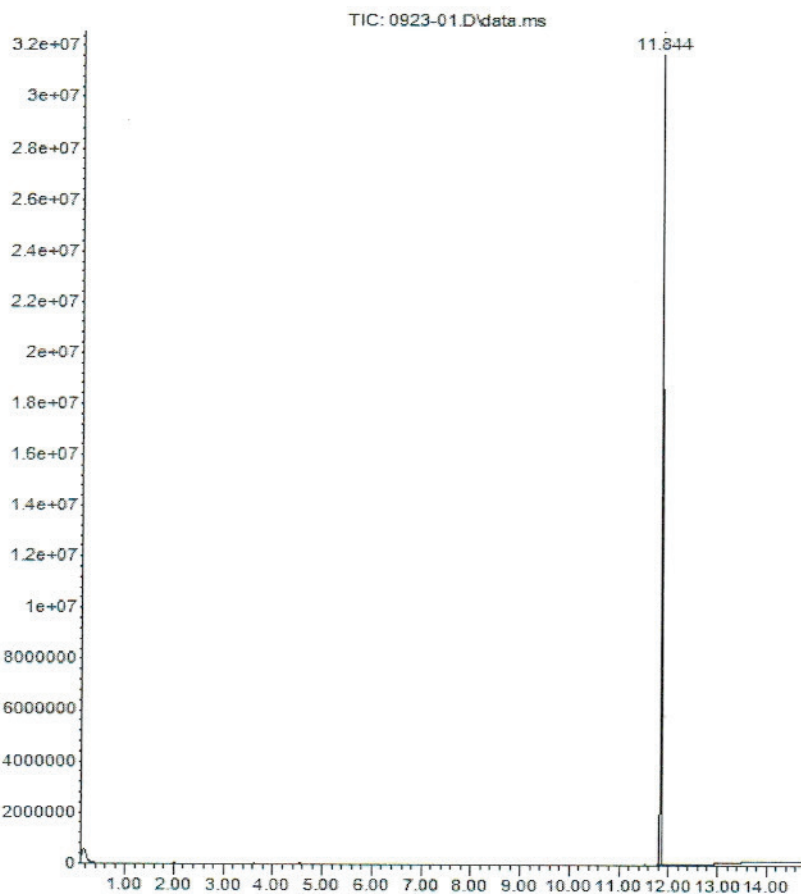
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015





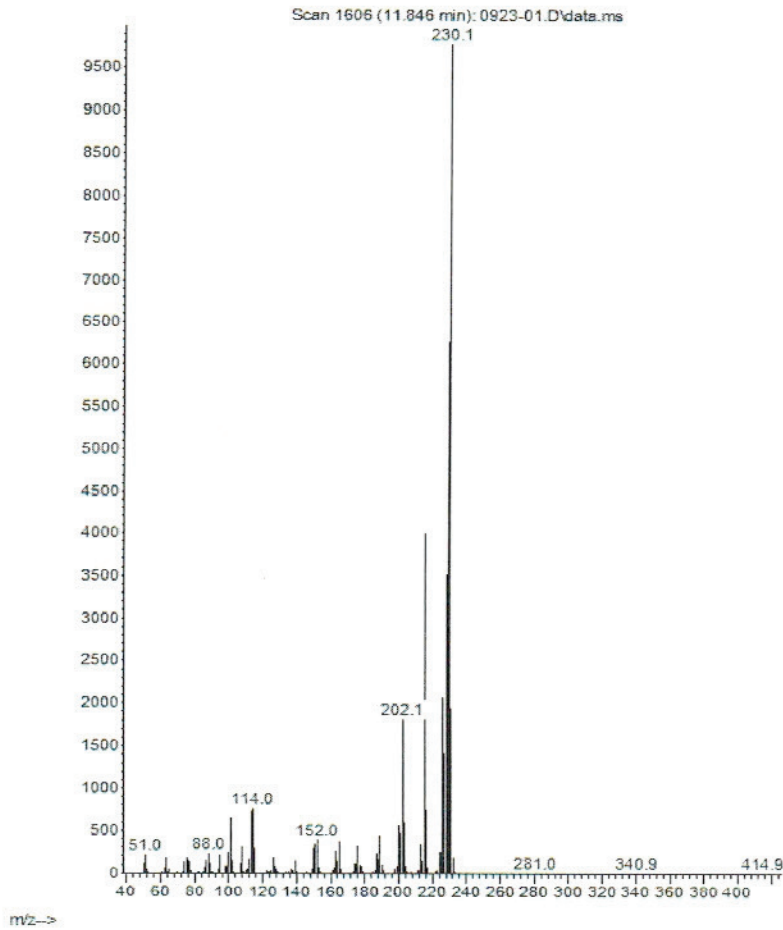
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



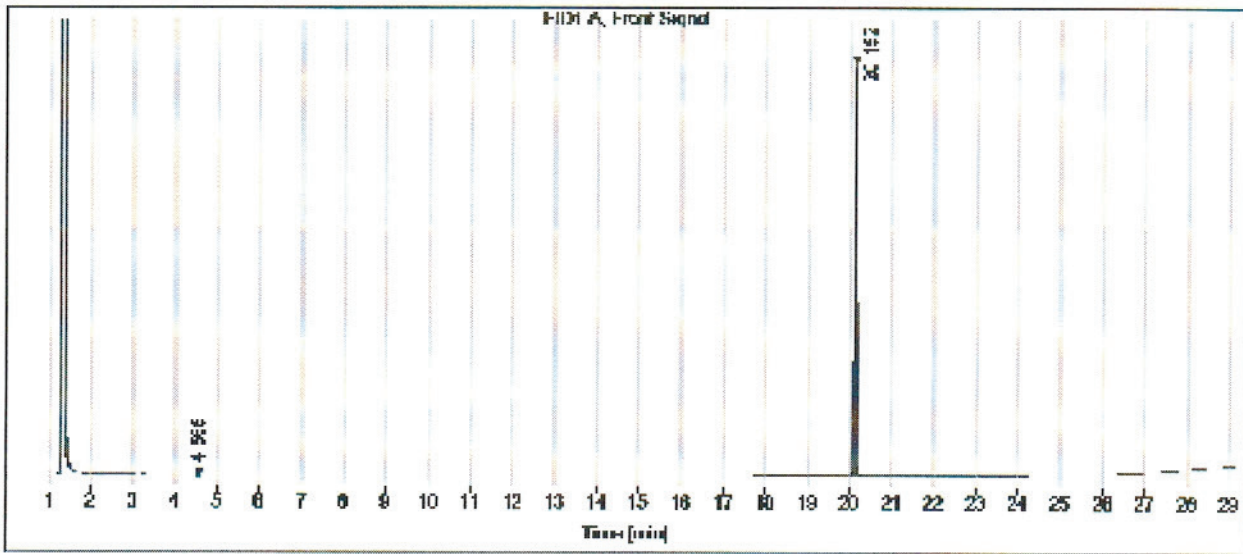
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

Gas

Data file: C:\CHEM3\  
 Sample name: N-12893  
 Instrument: GC 2  
 Injection date: 8/23/2019 9:58:34 AM  
 Acq. method: SCREEN.M  
 Column name: HP-5

## CERTIFICATE OF ANALYSIS

Location: Vial 141  
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015





# Analytical RunID GCFID-HP5-B\_220111c Standards Traceability Report

**Standard ID:** DRO210406A

**Standard Name:** Triacontane-d62 Surr For AK103 RRO

**Prep Date:** 4/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** MBBC4347

**Balance ID:**

**Comments:** Alaska surr [for AK103 RRO]

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Triacontane-d62-98 atom % D	<a href="#">13736</a>		mL	4/6/2026
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111c Standards Traceability Report

**Standard ID:** DRO210901A

**Standard Name:** 30W Motor Oil-Valvoline

**Prep Date:** 9/1/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:** F1620C1

**Balance ID:**

**Comments:** Used to make 2nd Source Standard for AK103 method.

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Valvoline SAE 30 Motor Oil	<a href="#">14232</a>		mL	9/1/2026
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111c Standards Traceability Report

**Standard ID:** DRO210901B

**Standard Name:** 40W Motor Oil-Valvoline

**Prep Date:** 9/1/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:** L0717H2

**Balance ID:**

**Comments:** Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Valvoline SAE 40 Motor Oil	<a href="#">14231</a>		mL	9/1/2026
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220111c Standards Traceability Report

**Standard ID:** DRO210902A

**Standard Name:** 50,000 ug/mL Oil Std for RRO-In DCM

**Prep Date:** 9/2/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** .625 g of 30W and 40 W each LCS for Oil range

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EB867	<a href="#">14196</a>	25	mL	9/1/2026

Stock Source	Base Units	Amount Added
DRO210901A	ug/mL	0.6254 g
DRO210901B	ug/mL	0.6261 g



# Analytical RunID GCFID-HP5-B\_220111c Standards Traceability Report

**Standard ID:** DRO211006A

**Standard Name:** Triacontane SURR 2000 ug/mL

**Prep Date:** 10/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Triacontane SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 50 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	50	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO210406A	ug/mL	0.1001 g





# Analytical RunID GCFID-HP5-B\_220111c Standards Traceability Report

**Standard ID:** DRO211118A

**Standard Name:** 50,000 ug/mL Oil Std For AK103 RRO-In DCM

**Prep Date:** 11/18/2021

**Exp Date:** 10/31/2028

**Department:** dropr

**Vendor:** Restek

**Lot Number:** A0176667

**Balance ID:** Sartorius 4 place balance

**Comments:**

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Residual Range Calibration Standard	<a href="#">14531</a>	1	mL	10/31/2028

Stock Source	Base Units	Amount Added
DRO211118A	ug/mL	



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 31817

Lot No.: A0176667

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 : October 31, 2028

Storage: 25°C nominal

Ship: Ambient

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----%	50,102.0 µg/mL	+/- 293.3582	µg/mL	Gravimetric
	(Lot A0126386)		+/- 1,492.1008	µg/mL	Unstressed
			+/- 1,591.3244	µg/mL	Stressed

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%

ID #: 14531

Opened: \_\_\_\_\_

Residual Range Calibration Standard

Expires: 10/31/2028

Rec'd: 11/18/2021

Energ 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:**

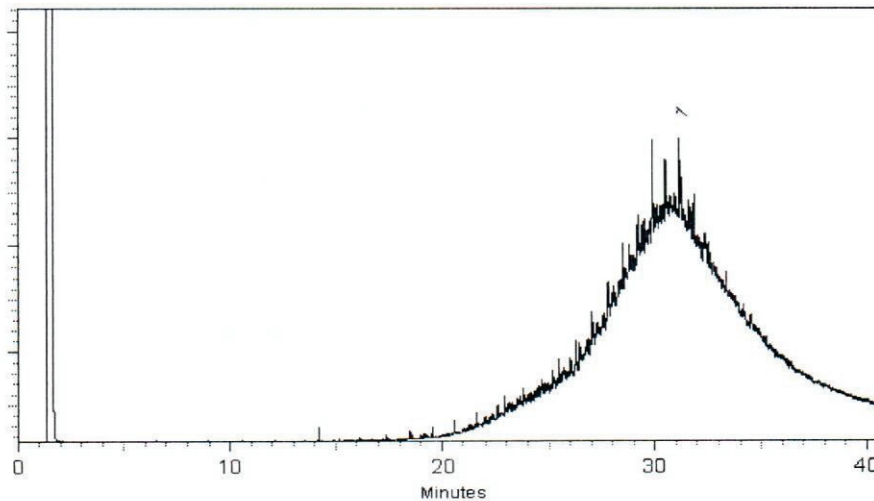
250°C

**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.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

*Alexis Shelow*

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

3050 Spruce Street, Saint Louis, MO 63103, USA  
 Website: www.sigmaaldrich.com  
 Email USA: techserv@sial.com  
 Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:  
 Triacontane-d62 - 98 atom % D

Product Number: 451789  
 Batch Number: MBBC4347  
 Brand: ALDRICH  
 CAS Number: 93952-07-9  
 MDL Number: MFCD00209794  
 Formula: C30D62  
 Formula Weight: 485.20 g/mol  
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: \_\_\_\_\_

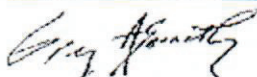
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street  
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor  
 Quality Control  
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO181105A

**Spike Name:** #2 Diesel (NEAT)

**Prep Date:** 11/5/2018

**Exp Date:** 11/5/2023

**Department:** dropr

**Vendor:** conoco

**Lot Number:**

**Balance ID:**

**Comments:** -18 Cloud peak. (Conoco Gas Sation 1240 S. 27th Billings, MT) 2nd Source

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 250 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
				11/5/2023
Stock Source	Base Units	Amount Added		



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO200430B  
**Spike Name:** O-Terphenyl  
**Prep Date:** 4/30/2020  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:** Chemservice  
**Lot Number:** 9972100  
**Balance ID:**  
**Comments:** ID#: 6271

**Type:** Neat  
**Prep By:** Ann Nebel  
**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
o-Terphenyl	<a href="#">12650</a>	500	mg	9/30/2024
Stock Source	Base Units	Amount Added		



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO210406A

**Spike Name:** Triacontane-d62 Surr For AK103 RRO

**Prep Date:** 4/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** MBBC4347

**Balance ID:**

**Comments:** Alaska surr [for AK103 RRO]

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Triacontane-d62-98 atom % D	<a href="#">13736</a>	500	mg	4/6/2026
Stock Source	Base Units	Amount Added		





## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO210901A

**Spike Name:** 30W Motor Oil-Valvoline

**Prep Date:** 9/1/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:** F1620C1

**Balance ID:**

**Comments:** Used to make 2nd Source Standard for AK103 method.

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Valvoline SAE 30 Motor Oil	<a href="#">14232</a>		mL	9/1/2026
Stock Source	Base Units	Amount Added		



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO210901B

**Spike Name:** 40W Motor Oil-Valvoline

**Prep Date:** 9/1/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:** L0717H2

**Balance ID:**

**Comments:** Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Valvoline SAE 40 Motor Oil	<a href="#">14231</a>		mL	9/1/2026

Stock Source	Base Units	Amount Added
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## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO210902A

**Spike Name:** 50,000 ug/mL Oil Std for RRO-In DCM

**Prep Date:** 9/2/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** .625 g of 30W and 40 W each LCS for Oil range

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EB867	<a href="#">14196</a>	25	mL	9/1/2026

Stock Source	Base Units	Amount Added
DRO210901A	ug/mL	0.6254 g
DRO210901B	ug/mL	0.6261 g



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO210902B

**Spike Name:** 30,000 ug/mL Oil Std For RRO-In DCM

**Prep Date:** 9/2/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:**

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EB867	<a href="#">14196</a>	1.6	mL	9/1/2026

Stock Source	Base Units	Amount Added
DRO210902A	ug/mL	2.4 mL



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO210902C

**Spike Name:** 3,000 ug/mL Oil Std For MDLS-In DCM

**Prep Date:** 9/2/2021

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 100 uL for MDL = .3 mg/L

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EB867	<a href="#">14196</a>	3.6	mL	9/1/2026

Stock Source	Base Units	Amount Added
DRO210902B	ug/mL	0.4 mL



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO211006A

**Spike Name:** Triacontane SURR 2000 ug/mL

**Prep Date:** 10/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Triacontane SURR 2000 ug/mL

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 50 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	50	mL	4/6/2026
Stock Source	Base Units	Amount Added		
DRO210406A	ug/mL	0.1001 g		



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO211006B

**Spike Name:** Triacontane SURR 20 ug/mL

**Prep Date:** 10/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 100X dilution of Triacontane SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	3.96	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO211006A	ug/mL	40 uL



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO211012B

**Spike Name:** #2 Diesel in Acetone 150,000 ug/mL

**Prep Date:** 10/12/2021

**Exp Date:** 11/5/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** #2 Diesel in Acetone 150,000 ug/mL.

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone EA662	<a href="#">14050</a>	25	mL	11/5/2023

Stock Source	Base Units	Amount Added
DRO181105A	ug/mL	3.7507 g





## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO211121C

**Spike Name:** MDL Diesel SPK 3000 ug/mL in Acetone

**Type:** Secondary

**Prep Date:** 11/21/2021

**Prep By:** Ann Nebel

**Exp Date:** 11/5/2023

**Status:** New

**Department:** dropr

**Vendor:**

**Final Volume:** 5 mL

**Lot Number:**

**Balance ID:**

**Comments:** use 100 uL DRO MDLs-mdw)

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DY299	<a href="#">13297</a>	4.9	mL	11/5/2023

Stock Source	Base Units	Amount Added
DRO211012B	ug/mL	0.1 mL



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO211213A

**Spike Name:** OTP only SURR 2000 ug/mL

**Prep Date:** 12/13/2021

**Exp Date:** 9/30/2024

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** OTP SURR 2000 ug/mL

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 100 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	100	mL	9/30/2024

Stock Source	Base Units	Amount Added
DRO200430B	ug/mL	0.2015 g



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO220106C

**Spike Name:** #2 Diesel in Acetone 150,000 ug/mL

**Prep Date:** 1/6/2022

**Exp Date:** 11/5/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:**

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	25	mL	11/5/2023

Stock Source	Base Units	Amount Added
DRO181105A	ug/mL	3.7506 g



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO220112A

**Spike Name:** 50,000 ug/mL Oil Std for RRO-In DCM

**Prep Date:** 1/12/2022

**Exp Date:** 9/1/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** .625 g of 30W and 40 W each LCS for Oil range

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	25	mL	9/1/2026

Stock Source	Base Units	Amount Added
DRO210901A	ug/mL	0.6225 g
DRO210901B	ug/mL	0.6273 g



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO220117A

**Spike Name:** OTPonly SURR 20 ug/mL

**Prep Date:** 1/17/2022

**Exp Date:** 9/30/2024

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 100X dilution of OTPonly SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone EA776	<a href="#">13927</a>	3.96	mL	9/30/2024

Stock Source	Base Units	Amount Added
DRO211213A	ug/mL	40 uL



## Prep Batch 163074 Standards Traceability Report

**Spike ID:** DRO220119A

**Spike Name:** Triacontane SURR 1000 ug/mL

**Prep Date:** 1/19/2022

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 2X dilution of Triacontane SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC849	<a href="#">14747</a>	5	mL	4/6/2026
Stock Source	Base Units	Amount Added		
DRO211006A	ug/mL	5 mL		

Anna

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### o-Terphenyl

CATALOG NUMBER N-12693-500MG  
LOT NUMBER 9972100  
DATE CERTIFIED 09/23/19  
EXPIRATION DATE 09/30/24  
CAS NUMBER 84-15-1  
MOLECULAR FORMULA C18H14  
MOLECULAR WEIGHT 230.32  
STORAGE Store in a cool dry place.  
HANDLING See Safety Data Sheet  
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

*Mary Beth O'Donnell*

Mary Beth O'Donnell  
CSM/TC

ID #: 12650

Opened: \_\_\_\_\_

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

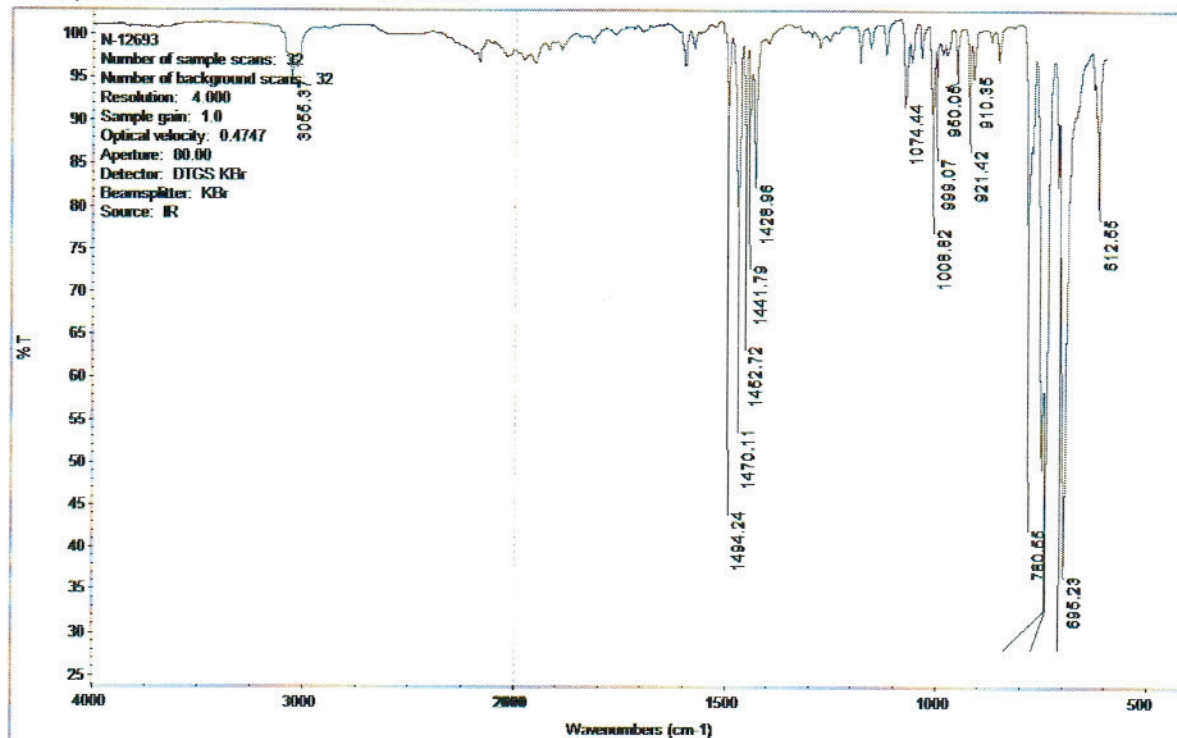
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015





## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Chem Service Inc      Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D  
Acq On : 23 Sep 2019 10:40  
Operator :  
Sample : n-12693  
Misc :  
ALS Vial : 95

Integration Parameters: autoint1.e  
Integrator: ChemStation

DataAcq Meth: SCREEN.M  
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

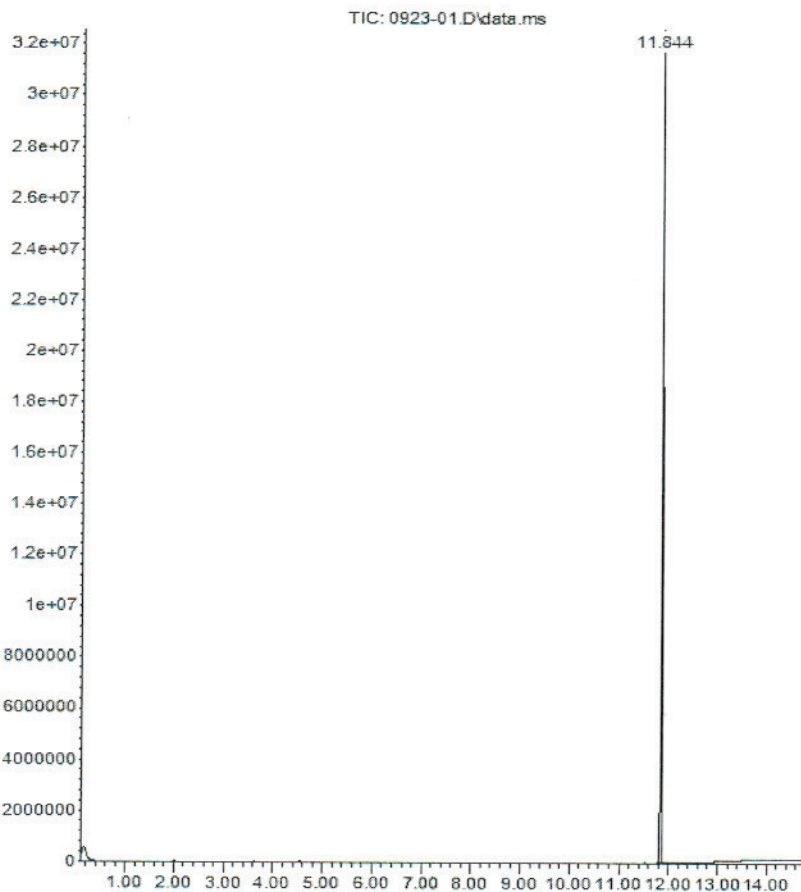
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

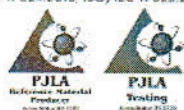
Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

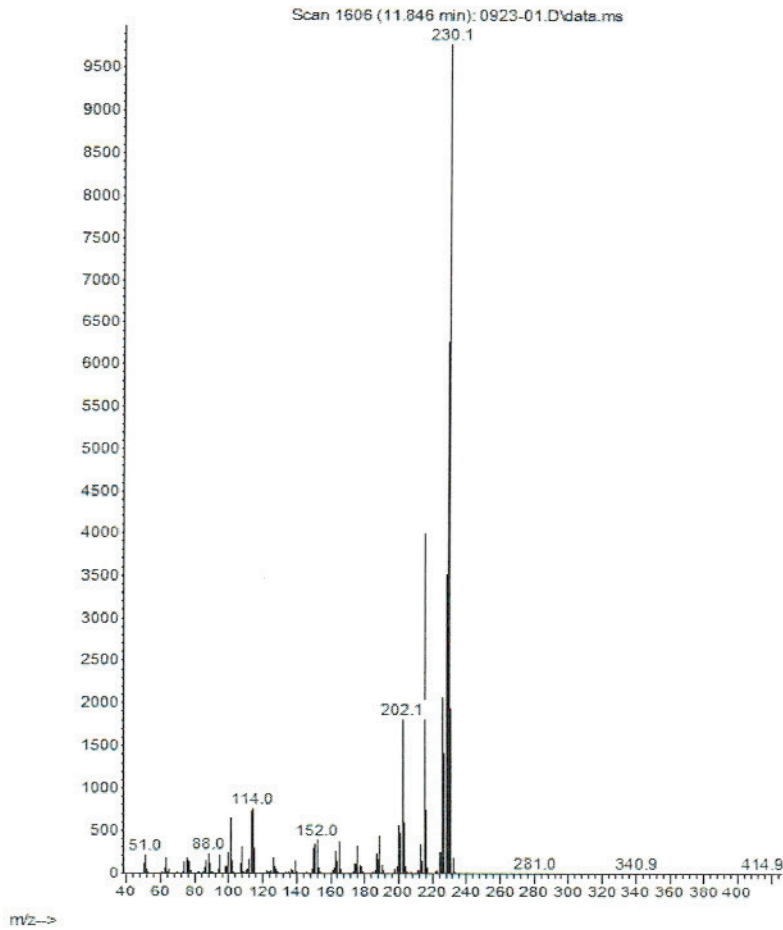


## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



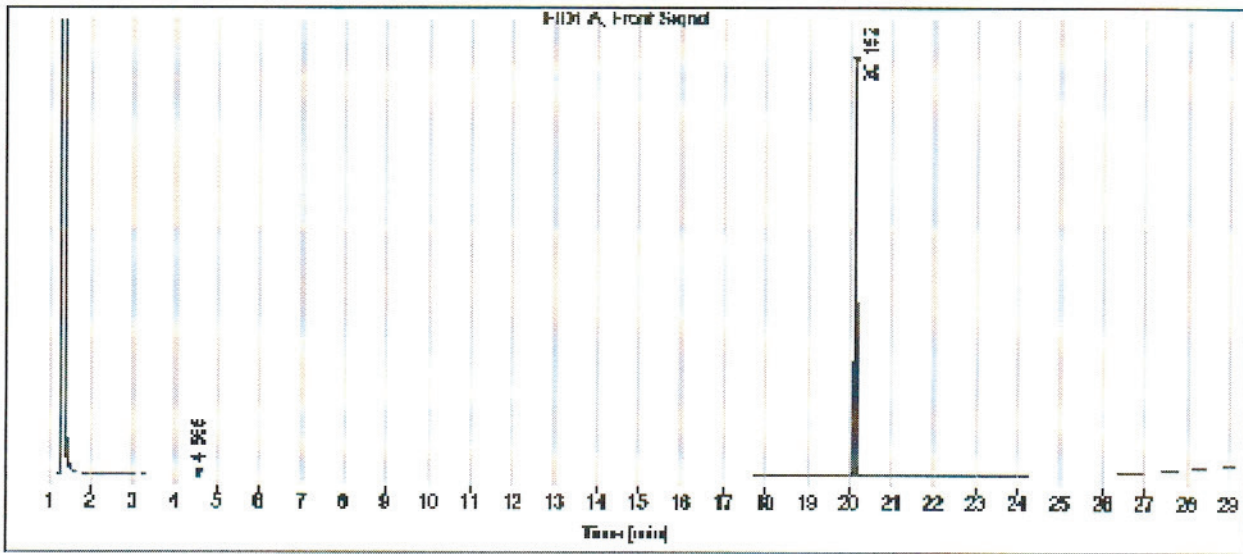
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

Gas

Data file: C:\CHEM3\  
 Sample name: N-12893  
 Instrument: GC 2  
 Injection date: 8/23/2019 9:58:34 AM  
 Acq. method: SCREEN.M  
 Column name: HP-5

## CERTIFICATE OF ANALYSIS

Location: Vial 141  
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

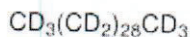


3050 Spruce Street, Saint Louis, MO 63103, USA  
 Website: www.sigmaaldrich.com  
 Email USA: techserv@sial.com  
 Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:  
 Triacontane-d62 - 98 atom % D

Product Number: 451789  
 Batch Number: MBBC4347  
 Brand: ALDRICH  
 CAS Number: 93952-07-9  
 MDL Number: MFCD00209794  
 Formula: C30D62  
 Formula Weight: 485.20 g/mol  
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: \_\_\_\_\_

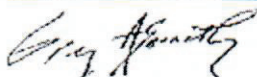
Triacontane-d62-98 atom % D

**Expires: 4/6/2026**

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street  
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor  
 Quality Control  
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO200430B  
**Standard Name:** O-Terphenyl  
**Prep Date:** 4/30/2020  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:** Chemservice  
**Lot Number:** 9972100  
**Balance ID:**  
**Comments:** ID#: 6271

**Type:** Neat  
**Prep By:** Ann Nebel  
**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
o-Terphenyl	<a href="#">12650</a>	500	mg	9/30/2024
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO210406A

**Standard Name:** Triacontane-d62 Surr For AK103 RRO

**Prep Date:** 4/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** MBBC4347

**Balance ID:**

**Comments:** Alaska surr [for AK103 RRO]

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Triacontane-d62-98 atom % D	<a href="#">13736</a>	500	mg	4/6/2026
Stock Source	Base Units	Amount Added		





# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO211006A

**Standard Name:** Triacontane SURR 2000 ug/mL

**Prep Date:** 10/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Triacontane SURR 2000 ug/mL

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 50 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	50	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO210406A	ug/mL	0.1001 g



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Spike ID:** DRO211101A  
**Spike Name:** OTP-4000 ug/mL DCM  
**Prep Date:** 11/1/2021  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:**  
**Lot Number:**  
**Balance ID:** BAL-DRO  
**Comments:** Used to Prep DRO-8015 ICAL and CCV Solutions

**Type:** Secondary  
**Prep By:** Ann Nebel  
**Status:** Open  
**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC328	<a href="#">14408</a>	25	mL	9/30/2024

Stock Source	Base Units	Amount Added
DRO200430B	ug/mL	0.1012 g



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO211118A

**Standard Name:** 50,000 ug/mL Oil Std For AK103 RRO-In DCM

**Prep Date:** 11/18/2021

**Exp Date:** 10/31/2028

**Department:** dropr

**Vendor:** Restek

**Lot Number:** A0176667

**Balance ID:** Sartorius 4 place balance

**Comments:**

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Residual Range Calibration Standard	<a href="#">14531</a>	1	mL	10/31/2028
Stock Source	Base Units	Amount Added		
DRO211118A	ug/mL			



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO211214C

**Standard Name:** Diesel Fuel #2 50,000 ug/mL in DCM

**Prep Date:** 12/14/2021

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** LRAC6316

**Balance ID:**

**Comments:** Diesel Fuel #2 For CCVs.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Diesel Fuel No. 2	<a href="#">14623</a>	1	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO220106B

**Standard Name:** Triacontane SURR 1000 ug/mL

**Prep Date:** 1/6/2022

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 2X dilution of Triacontane SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	5	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO211006A	ug/mL	5 mL



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO220110A

**Standard Name:** Carbon Scan STD-Marker

**Prep Date:** 1/11/2022

**Exp Date:** 7/13/2026

**Department:** dropr

**Vendor:** ASI2

**Lot Number:** 55064

**Balance ID:**

**Comments:** FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1.2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
n-Hydrocarbons- C5 to C30, C32, C34, C36, C38, C40	<a href="#">14737</a>	1.2	mL	7/13/2026

Stock Source	Base Units	Amount Added
DRO220110A	ug/mL	



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO220111A

**Standard Name:** Carbon Scan STD-Marker

**Prep Date:** 1/11/2022

**Exp Date:** 7/13/2026

**Department:** dropr

**Vendor:** ASI2

**Lot Number:** 071306

**Balance ID:**

**Comments:** FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 2.4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Carbon Disulfide 55064	<a href="#">7477</a>	1.2	mL	7/13/2026

Stock Source	Base Units	Amount Added
DRO220110A	ug/mL	1.2 mL



# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO220114A

**Standard Name:** 8015 CCV-15,000ug/mL + 200 OTP

**Prep Date:** 1/14/2022

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	2.6	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	1.2 mL
DRO211101A	ug/mL	0.2 mL





# Analytical RunID GCFID-HP5-B\_220122A Standards Traceability Report

**Standard ID:** DRO220118A

**Standard Name:** 5,000 ug/mL RRO CCV 200 ug/mL Triacontane

**Prep Date:** 1/18/2022

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** CCV for AK102 and 8015C RRO.

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC849	<a href="#">14747</a>	2.8	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO220106B	ug/mL	800 µL
DRO211118A	ug/mL	400 µL

Anna

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### o-Terphenyl

CATALOG NUMBER N-12693-500MG  
LOT NUMBER 9972100  
DATE CERTIFIED 09/23/19  
EXPIRATION DATE 09/30/24  
CAS NUMBER 84-15-1  
MOLECULAR FORMULA C18H14  
MOLECULAR WEIGHT 230.32  
STORAGE Store in a cool dry place.  
HANDLING See Safety Data Sheet  
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

*Mary Beth O'Donnell*

Mary Beth O'Donnell  
CSM/TC

ID #: 12650

Opened: \_\_\_\_\_

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street

Billings MT 59107

COA Form  
Revision 3 (3/2015)

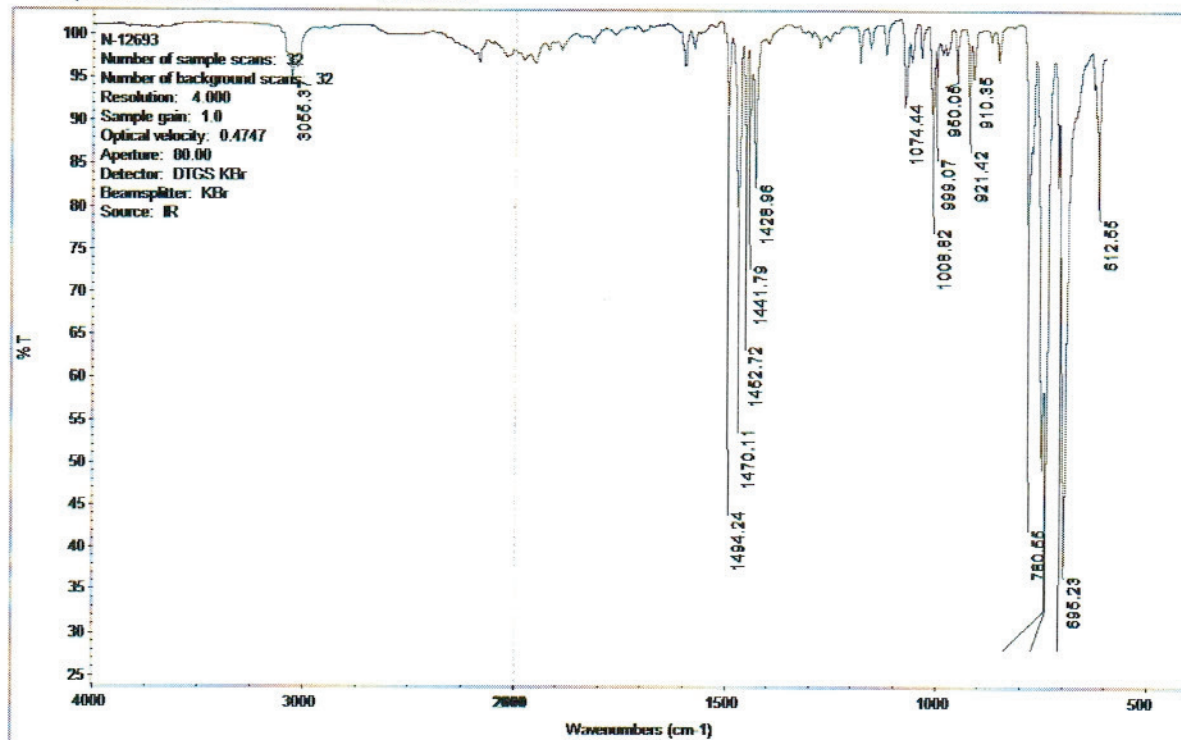
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Chem Service Inc      Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D  
Acq On : 23 Sep 2019 10:40  
Operator :  
Sample : n-12693  
Misc :  
ALS Vial : 95

Integration Parameters: autoint1.e  
Integrator: ChemStation

DataAcq Meth: SCREEN.M  
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

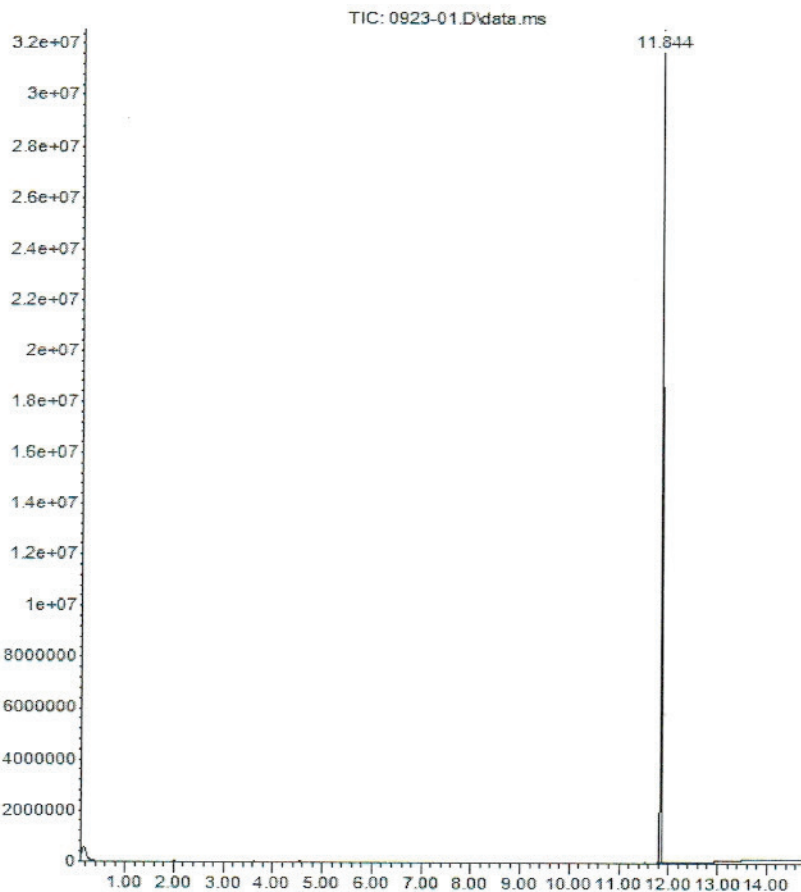
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



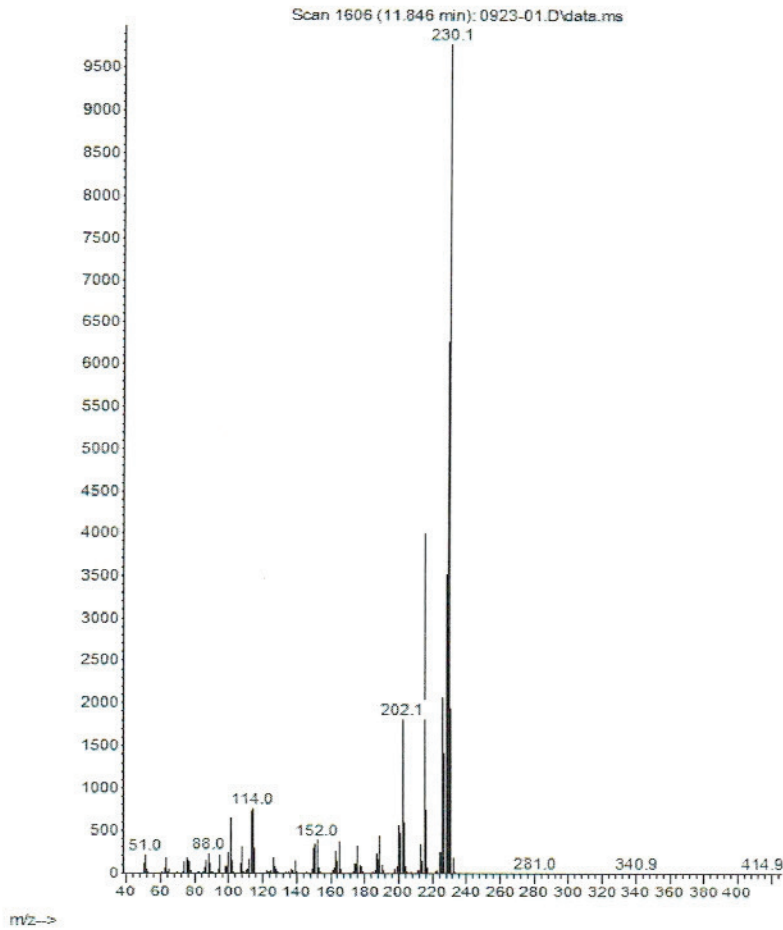
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



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## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



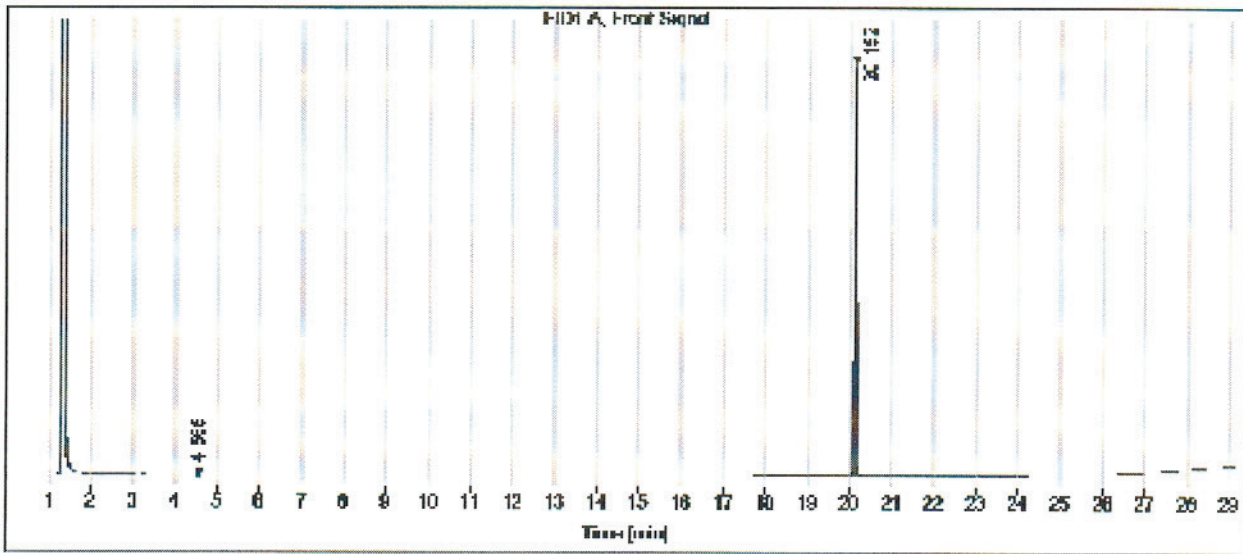
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

Gas

Data file: C:\CHEM3\  
 Sample name: N-12893  
 Instrument: GC 2  
 Injection date: 8/23/2019 9:58:34 AM  
 Acq. method: SCREEN.M  
 Column name: HP-5

## CERTIFICATE OF ANALYSIS

Location: Vial 141  
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

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3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)

Email USA: [techserv@sial.com](mailto:techserv@sial.com)

Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:  
Triacontane-d62 - 98 atom % D

Product Number: 451789  
 Batch Number: MBBC4347  
 Brand: ALDRICH  
 CAS Number: 93952-07-9  
 MDL Number: MFCD00209794  
 Formula: C30D62  
 Formula Weight: 485.20 g/mol  
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: \_\_\_\_\_

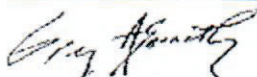
Triacontane-d62-98 atom % D

**Expires: 4/6/2026**

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street  
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor  
 Quality Control  
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 31817

Lot No.: A0176667

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 : October 31, 2028

Storage: 25°C nominal

Ship: Ambient

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----%	50,102.0 µg/mL	+/- 293.3582 µg/mL +/- 1,492.1008 µg/mL +/- 1,591.3244 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%

ID #: 14531

Opened: \_\_\_\_\_

Residual Range Calibration Standard

Expires: 10/31/2028

Rec'd: 11/18/2021

Energ 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:**

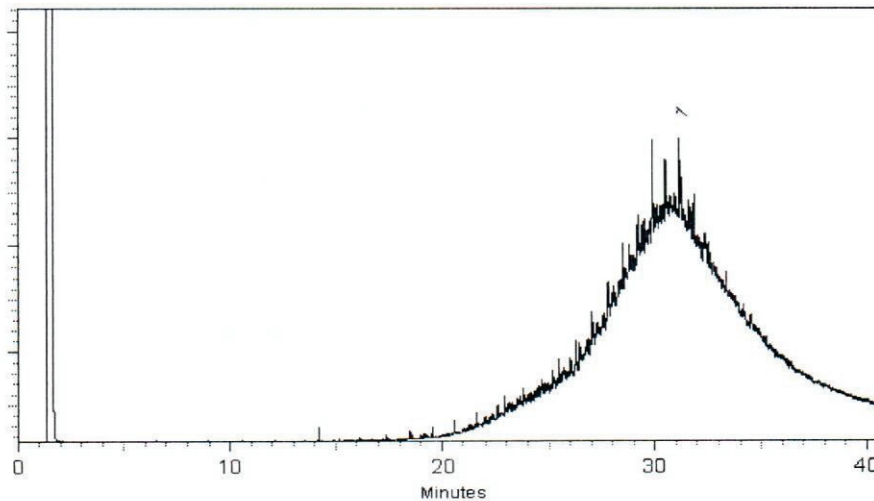
250°C

**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.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

*Alexis Shelow*

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

# 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

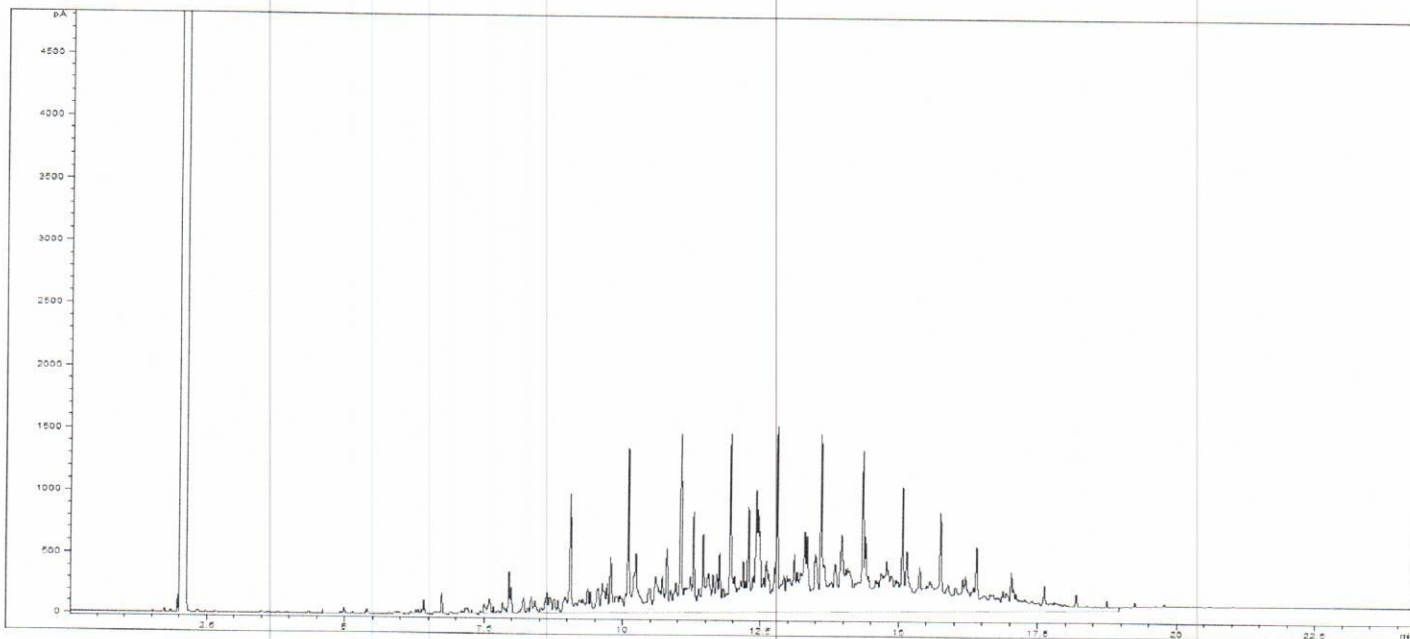
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

## Certified Values

Analyte	Certified Value <sup>1,4</sup>	Units	Raw Material Purity,%	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

## Informational Values



## Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H<sub>2</sub>, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



**SIGMA-ALDRICH®**

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA  
800-325-5832  
TechService@milliporesigma.com www.sigma-aldrich.com

# Description

Lot **LRAC6316**  
Expiration Date April 2023  
Manufacturing Date April 2020  
Storage Conditions Room Temperature  
Solvent/Matrix DICHLOROMETHANE

**1 Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.  
**4 Ucrm - Uncertainty values** in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**k:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

**6 Analytical Value-** For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

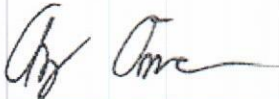
**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Homogeneity:** Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

**THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).**



Andy Ommen - QC Manager

Certification Date April 30, 2020  
Version 0-4302020



Mark Pooler - QA Supervisor





# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO200430B  
**Standard Name:** O-Terphenyl  
**Prep Date:** 4/30/2020  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:** Chemservice  
**Lot Number:** 9972100  
**Balance ID:**  
**Comments:** ID#: 6271

**Type:** Neat  
**Prep By:** Ann Nebel  
**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
o-Terphenyl	<a href="#">12650</a>	500	mg	9/30/2024
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO210406A

**Standard Name:** Triacontane-d62 Surr For AK103 RRO

**Prep Date:** 4/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** MBBC4347

**Balance ID:**

**Comments:** Alaska surr [for AK103 RRO]

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Triacontane-d62-98 atom % D	<a href="#">13736</a>	500	mg	4/6/2026
Stock Source	Base Units	Amount Added		





# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO211006A

**Standard Name:** Triacontane SURR 2000 ug/mL

**Prep Date:** 10/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Triacontane SURR 2000 ug/mL

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 50 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	50	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO210406A	ug/mL	0.1001 g



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Spike ID:** DRO211101A  
**Spike Name:** OTP-4000 ug/mL DCM  
**Prep Date:** 11/1/2021  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:**  
**Lot Number:**  
**Balance ID:** BAL-DRO  
**Comments:** Used to Prep DRO-8015 ICAL and CCV Solutions

**Type:** Secondary  
**Prep By:** Ann Nebel  
**Status:** Open  
  
**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC328	<a href="#">14408</a>	25	mL	9/30/2024

Stock Source	Base Units	Amount Added
DRO200430B	ug/mL	0.1012 g



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO211118A

**Standard Name:** 50,000 ug/mL Oil Std For AK103 RRO-In DCM

**Prep Date:** 11/18/2021

**Exp Date:** 10/31/2028

**Department:** dropr

**Vendor:** Restek

**Lot Number:** A0176667

**Balance ID:** Sartorius 4 place balance

**Comments:**

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Residual Range Calibration Standard	<a href="#">14531</a>	1	mL	10/31/2028

Stock Source	Base Units	Amount Added
DRO211118A	ug/mL	



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO211214C

**Standard Name:** Diesel Fuel #2 50,000 ug/mL in DCM

**Prep Date:** 12/14/2021

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** LRAC6316

**Balance ID:**

**Comments:** Diesel Fuel #2 For CCVs.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Diesel Fuel No. 2	<a href="#">14623</a>	1	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO220106B

**Standard Name:** Triacontane SURR 1000 ug/mL

**Prep Date:** 1/6/2022

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 2X dilution of Triacontane SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	5	mL	4/6/2026
Stock Source	Base Units	Amount Added		
DRO211006A	ug/mL	5 mL		



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO220110A

**Standard Name:** Carbon Scan STD-Marker

**Prep Date:** 1/11/2022

**Exp Date:** 7/13/2026

**Department:** dropr

**Vendor:** ASI2

**Lot Number:** 55064

**Balance ID:**

**Comments:** FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1.2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
n-Hydrocarbons- C5 to C30, C32, C34, C36, C38, C40	<a href="#">14737</a>	1.2	mL	7/13/2026

Stock Source	Base Units	Amount Added
DRO220110A	ug/mL	



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO220111A

**Standard Name:** Carbon Scan STD-Marker

**Prep Date:** 1/11/2022

**Exp Date:** 7/13/2026

**Department:** dropr

**Vendor:** ASI2

**Lot Number:** 071306

**Balance ID:**

**Comments:** FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 2.4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Carbon Disulfide 55064	<a href="#">7477</a>	1.2	mL	7/13/2026

Stock Source	Base Units	Amount Added
DRO220110A	ug/mL	1.2 mL



# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO220114A

**Standard Name:** 8015 CCV-15,000ug/mL + 200 OTP

**Prep Date:** 1/14/2022

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	2.6	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	1.2 mL
DRO211101A	ug/mL	0.2 mL





# Analytical RunID GCFID-HP5-B\_220124A Standards Traceability Report

**Standard ID:** DRO220118A

**Standard Name:** 5,000 ug/mL RRO CCV 200 ug/mL Triacontane

**Type:** Secondary

**Prep Date:** 1/18/2022

**Prep By:** Ann Nebel

**Exp Date:** 4/6/2026

**Status:** New

**Department:** dropr

**Vendor:**

**Final Volume:** 4 mL

**Lot Number:**

**Balance ID:**

**Comments:** CCV for AK102 and 8015C RRO.

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC849	<a href="#">14747</a>	2.8	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO220106B	ug/mL	800 µL
DRO211118A	ug/mL	400 µL

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### o-Terphenyl

CATALOG NUMBER N-12693-500MG  
LOT NUMBER 9972100  
DATE CERTIFIED 09/23/19  
EXPIRATION DATE 09/30/24  
CAS NUMBER 84-15-1  
MOLECULAR FORMULA C18H14  
MOLECULAR WEIGHT 230.32  
STORAGE Store in a cool dry place.  
HANDLING See Safety Data Sheet  
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

*Mary Beth O'Donnell*

Mary Beth O'Donnell  
CSM/TC

ID #: 12650

Opened: \_\_\_\_\_

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

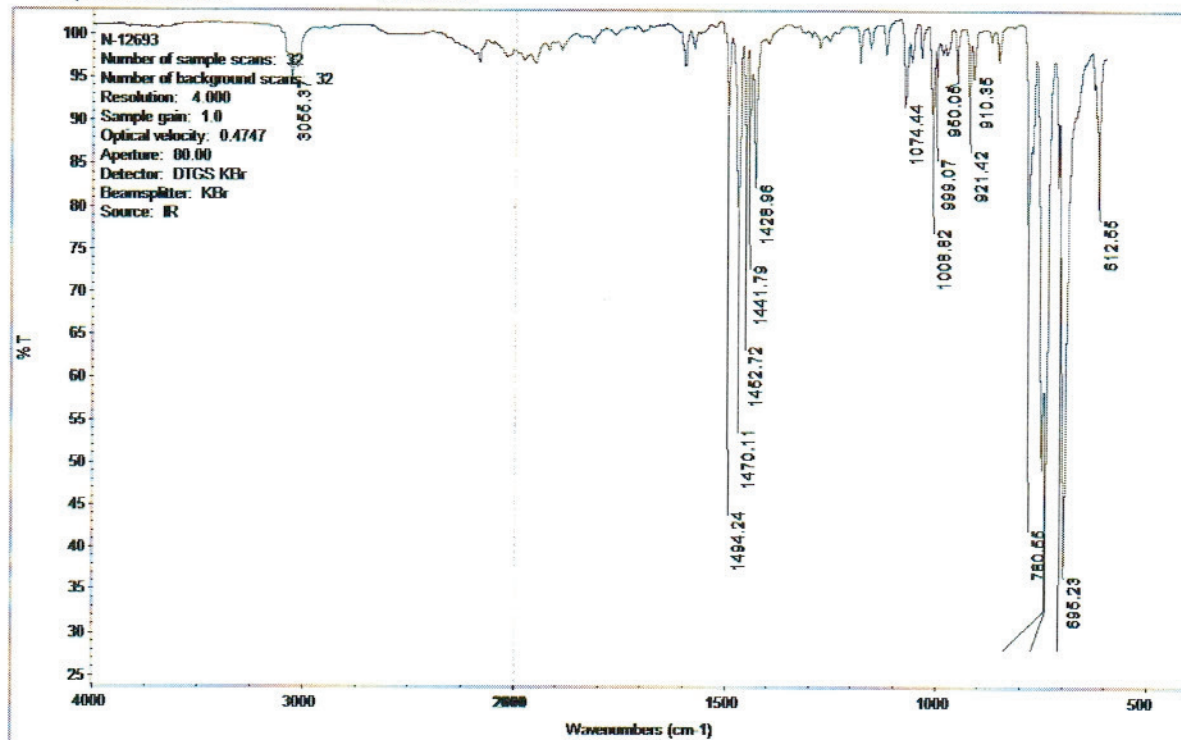
Energyl Laboratories Inc 1120 So. 27th Street

Billings MT 59107

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Chem Service Inc      Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D  
Acq On : 23 Sep 2019 10:40  
Operator :  
Sample : n-12693  
Misc :  
ALS Vial : 95

Integration Parameters: autoint1.e  
Integrator: ChemStation

DataAcq Meth: SCREEN.M  
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

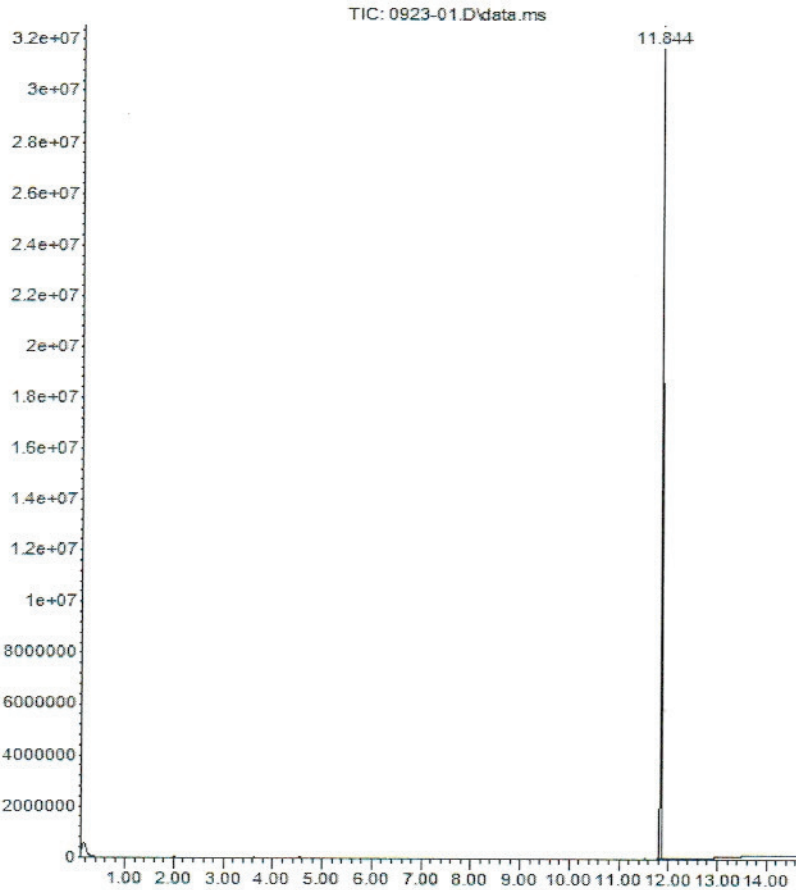
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



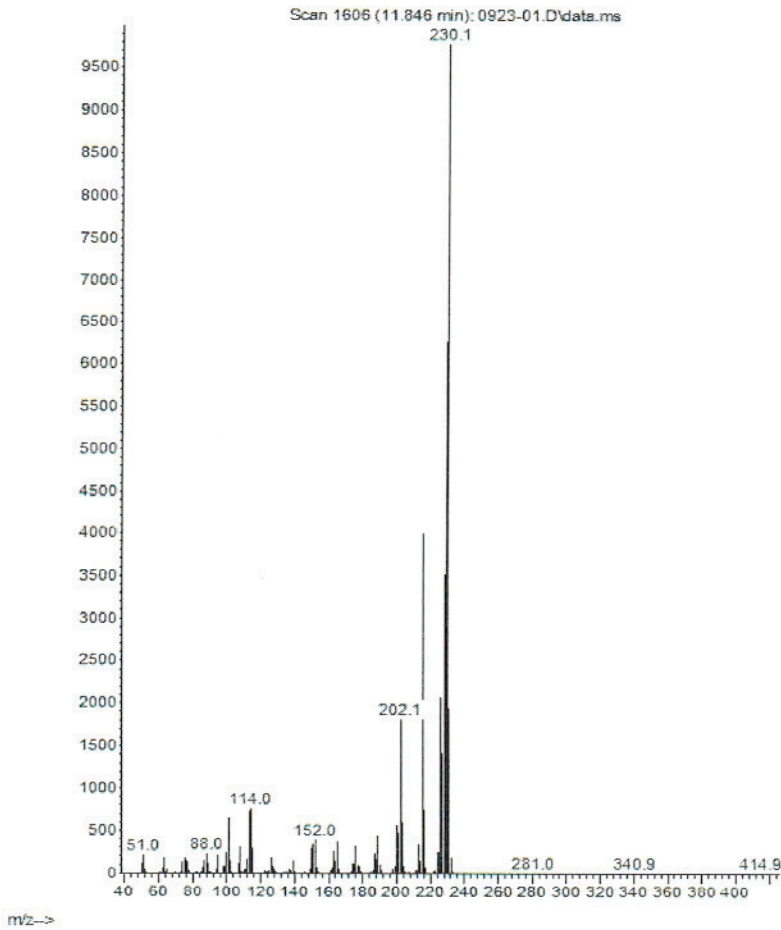
660 Tower Lane • P. O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



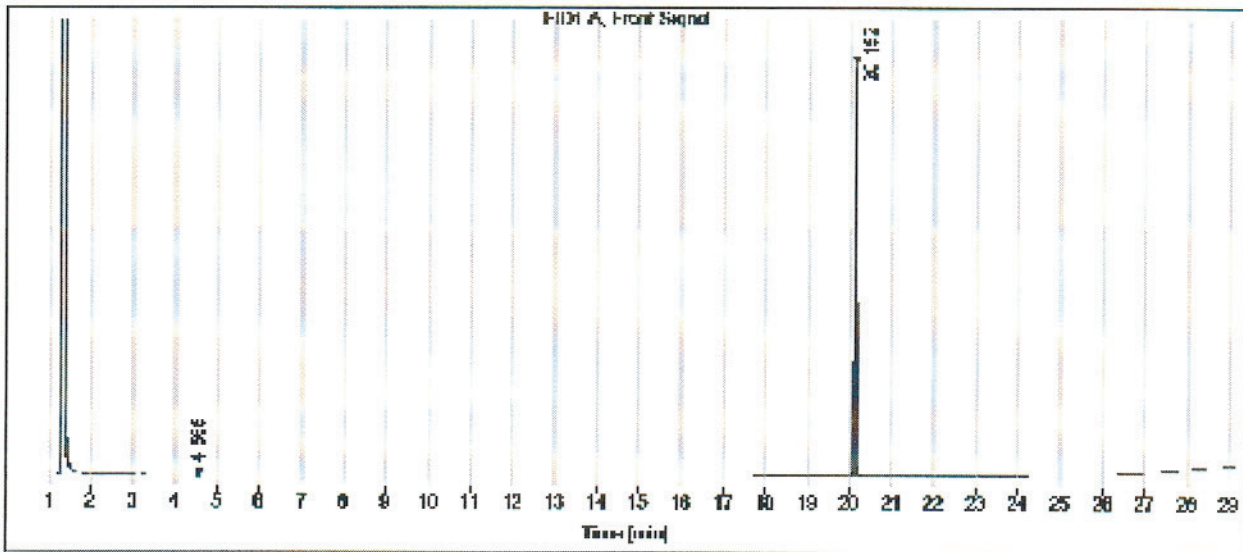
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

Gas

Data file: C:\CHEM3\  
 Sample name: N-12893  
 Instrument: GC 2  
 Injection date: 8/23/2019 9:58:34 AM  
 Acq. method: SCREEN.M  
 Column name: HP-5

## CERTIFICATE OF ANALYSIS

Location: Vial 141  
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015





3050 Spruce Street, Saint Louis, MO 63103, USA  
 Website: www.sigmaaldrich.com  
 Email USA: techserv@sial.com  
 Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:  
 Triacontane-d62 - 98 atom % D

Product Number: 451789  
 Batch Number: MBBC4347  
 Brand: ALDRICH  
 CAS Number: 93952-07-9  
 MDL Number: MFCD00209794  
 Formula: C30D62  
 Formula Weight: 485.20 g/mol  
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: \_\_\_\_\_

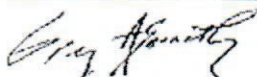
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street  
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor  
 Quality Control  
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 31817

Lot No.: A0176667

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 : October 31, 2028

Storage: 25°C nominal

Ship: Ambient

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----%	50,102.0 µg/mL	+/- 293.3582	µg/mL	Gravimetric
	(Lot A0126386)		+/- 1,492.1008	µg/mL	Unstressed
			+/- 1,591.3244	µg/mL	Stressed

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%

ID #: 14531

Opened: \_\_\_\_\_

Residual Range Calibration Standard

Expires: 10/31/2028

Rec'd: 11/18/2021

Energ 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:**

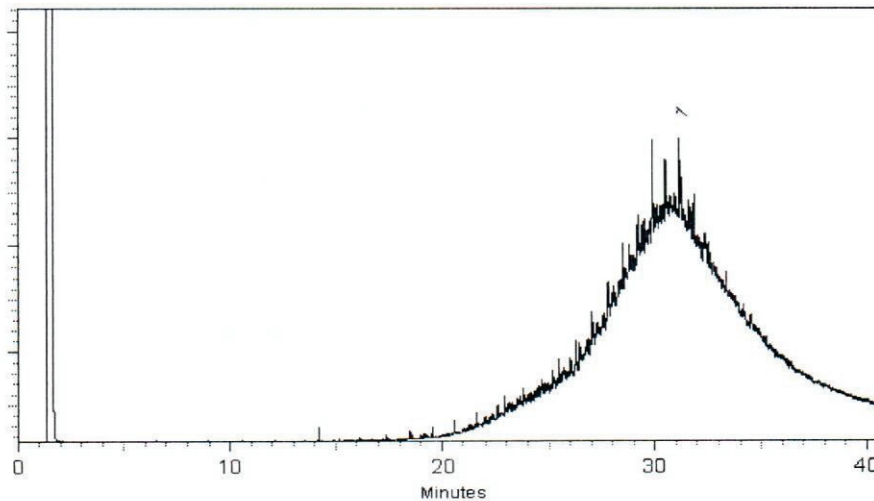
250°C

**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.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

*Alexis Shelow*

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

# 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

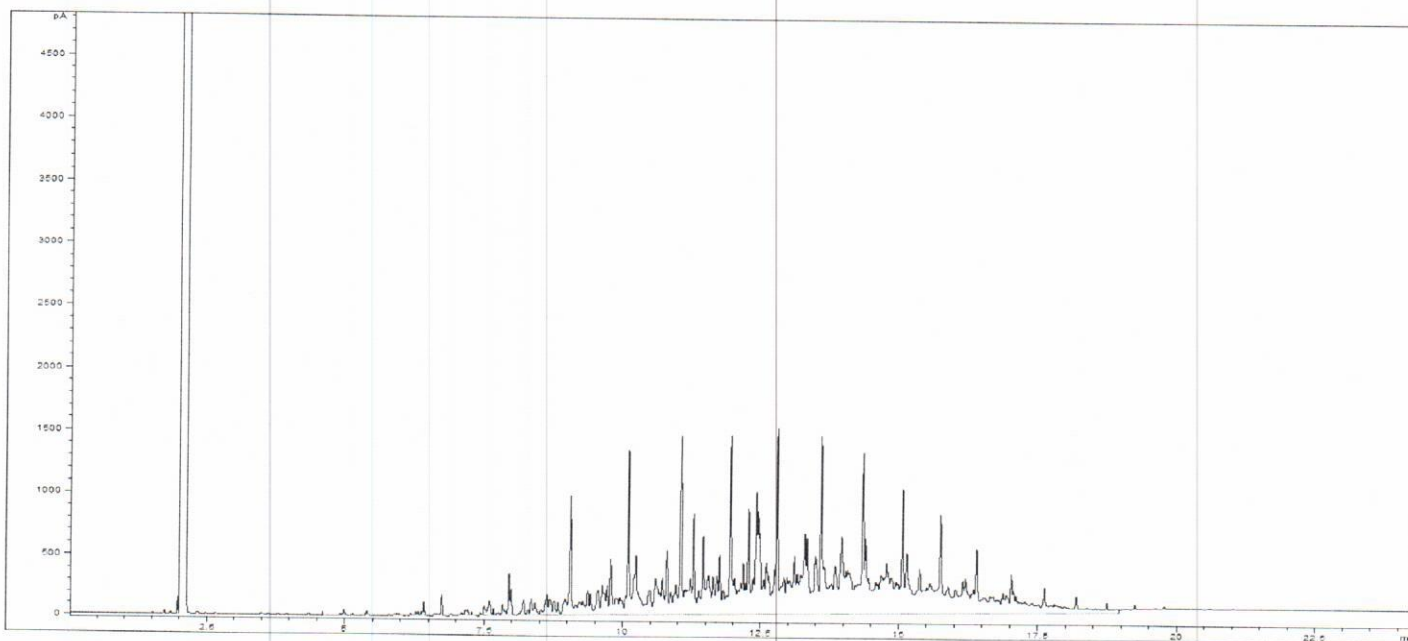
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

## Certified Values

Analyte	Certified Value <sup>1,4</sup>	Units	Raw Material Purity,%	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

## Informational Values



## Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H<sub>2</sub>, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



**SIGMA-ALDRICH®**

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA  
800-325-5832  
TechService@milliporesigma.com www.sigma-aldrich.com

# Description

Lot **LRAC6316**  
Expiration Date April 2023  
Manufacturing Date April 2020  
Storage Conditions Room Temperature  
Solvent/Matrix DICHLOROMETHANE

**1 Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.  
**4 Ucrm - Uncertainty values** in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**k:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

**6 Analytical Value-** For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

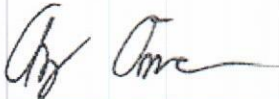
**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Homogeneity:** Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

**THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).**



Andy Ommen - QC Manager

Certification Date April 30, 2020  
Version 0-4302020



Mark Pooler - QA Supervisor





# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO200430B  
**Standard Name:** O-Terphenyl  
**Prep Date:** 4/30/2020  
**Exp Date:** 9/30/2024  
**Department:** dropr  
**Vendor:** Chemservice  
**Lot Number:** 9972100  
**Balance ID:**  
**Comments:** ID#: 6271

**Type:** Neat  
**Prep By:** Ann Nebel  
**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
o-Terphenyl	<a href="#">12650</a>	500	mg	9/30/2024
Stock Source	Base Units	Amount Added		



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO210406A

**Standard Name:** Triacontane-d62 Surr For AK103 RRO

**Prep Date:** 4/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** MBBC4347

**Balance ID:**

**Comments:** Alaska surr [for AK103 RRO]

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Triacontane-d62-98 atom % D	<a href="#">13736</a>	500	mg	4/6/2026
Stock Source	Base Units	Amount Added		





# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO211006A

**Standard Name:** Triacontane SURR 2000 ug/mL

**Prep Date:** 10/6/2021

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Triacontane SURR 2000 ug/mL

**Type:** Primary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 50 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Acetone DZ509	<a href="#">13553</a>	50	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO210406A	ug/mL	0.1001 g



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Spike ID:** DRO211101A

**Spike Name:** OTP-4000 ug/mL DCM

**Prep Date:** 11/1/2021

**Exp Date:** 9/30/2024

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** Used to Prep DRO-8015 ICAL and CCV Solutions

**Type:** Secondary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 25 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC328	<a href="#">14408</a>	25	mL	9/30/2024

Stock Source	Base Units	Amount Added
DRO200430B	ug/mL	0.1012 g



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO211118A

**Standard Name:** 50,000 ug/mL Oil Std For AK103 RRO-In DCM

**Prep Date:** 11/18/2021

**Exp Date:** 10/31/2028

**Department:** dropr

**Vendor:** Restek

**Lot Number:** A0176667

**Balance ID:** Sartorius 4 place balance

**Comments:**

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Residual Range Calibration Standard	<a href="#">14531</a>	1	mL	10/31/2028
Stock Source	Base Units	Amount Added		
DRO211118A	ug/mL			



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO211214C

**Standard Name:** Diesel Fuel #2 50,000 ug/mL in DCM

**Prep Date:** 12/14/2021

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:** Sigma-Aldrich

**Lot Number:** LRAC6316

**Balance ID:**

**Comments:** Diesel Fuel #2 For CCVs.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** New

**Final Volume:** mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Diesel Fuel No. 2	<a href="#">14623</a>	1	mL	4/30/2023
Stock Source	Base Units	Amount Added		
DRO211214C	ug/mL			



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO220106B

**Standard Name:** Triacontane SURR 1000 ug/mL

**Prep Date:** 1/6/2022

**Exp Date:** 4/6/2026

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:** BAL-DRO

**Comments:** 2X dilution of Triacontane SURR 2000 ug/mL

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	5	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO211006A	ug/mL	5 mL



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO220110A

**Standard Name:** Carbon Scan STD-Marker

**Prep Date:** 1/11/2022

**Exp Date:** 7/13/2026

**Department:** dropr

**Vendor:** ASI2

**Lot Number:** 55064

**Balance ID:**

**Comments:** FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

**Type:** Neat

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 1.2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
n-Hydrocarbons- C5 to C30, C32, C34, C36, C38, C40	<a href="#">14737</a>	1.2	mL	7/13/2026

Stock Source	Base Units	Amount Added
DRO220110A	ug/mL	



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO220111A

**Standard Name:** Carbon Scan STD-Marker

**Prep Date:** 1/11/2022

**Exp Date:** 7/13/2026

**Department:** dropr

**Vendor:** ASI2

**Lot Number:** 071306

**Balance ID:**

**Comments:** FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

**Type:** Primary

**Prep By:** Ann Nebel

**Status:** Open

**Final Volume:** 2.4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Carbon Disulfide 55064	<a href="#">7477</a>	1.2	mL	7/13/2026

Stock Source	Base Units	Amount Added
DRO220110A	ug/mL	1.2 mL



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO220114A

**Standard Name:** 8015 CCV-15,000ug/mL + 200 OTP

**Prep Date:** 1/14/2022

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC832	<a href="#">14647</a>	2.6	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	1.2 mL
DRO211101A	ug/mL	0.2 mL





# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO220118A

**Standard Name:** 5,000 ug/mL RRO CCV 200 ug/mL Triacontane

**Type:** Secondary

**Prep Date:** 1/18/2022

**Prep By:** Ann Nebel

**Exp Date:** 4/6/2026

**Status:** New

**Department:** dropr

**Vendor:**

**Final Volume:** 4 mL

**Lot Number:**

**Balance ID:**

**Comments:** CCV for AK102 and 8015C RRO.

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC849	<a href="#">14747</a>	2.8	mL	4/6/2026

Stock Source	Base Units	Amount Added
DRO220106B	ug/mL	800 µL
DRO211118A	ug/mL	400 µL



# Analytical RunID GCFID-HP5-B\_220124B Standards Traceability Report

**Standard ID:** DRO220124A

**Standard Name:** 8015 CCV-15,000ug/mL + 200 OTP

**Prep Date:** 1/24/2022

**Exp Date:** 4/30/2023

**Department:** dropr

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

**Type:** Secondary

**Prep By:** Jillian L Bostwick

**Status:** New

**Final Volume:** 4 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Dichloromethane EC849	<a href="#">14747</a>	2.6	mL	4/30/2023

Stock Source	Base Units	Amount Added
DRO211214C	ug/mL	1.2 mL
DRO211101A	ug/mL	0.2 mL

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599  
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### o-Terphenyl

CATALOG NUMBER N-12693-500MG  
LOT NUMBER 9972100  
DATE CERTIFIED 09/23/19  
EXPIRATION DATE 09/30/24  
CAS NUMBER 84-15-1  
MOLECULAR FORMULA C18H14  
MOLECULAR WEIGHT 230.32  
STORAGE Store in a cool dry place.  
HANDLING See Safety Data Sheet  
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

*Mary Beth O'Donnell*

Mary Beth O'Donnell  
CSM/TC

ID #: 12650

Opened: \_\_\_\_\_

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

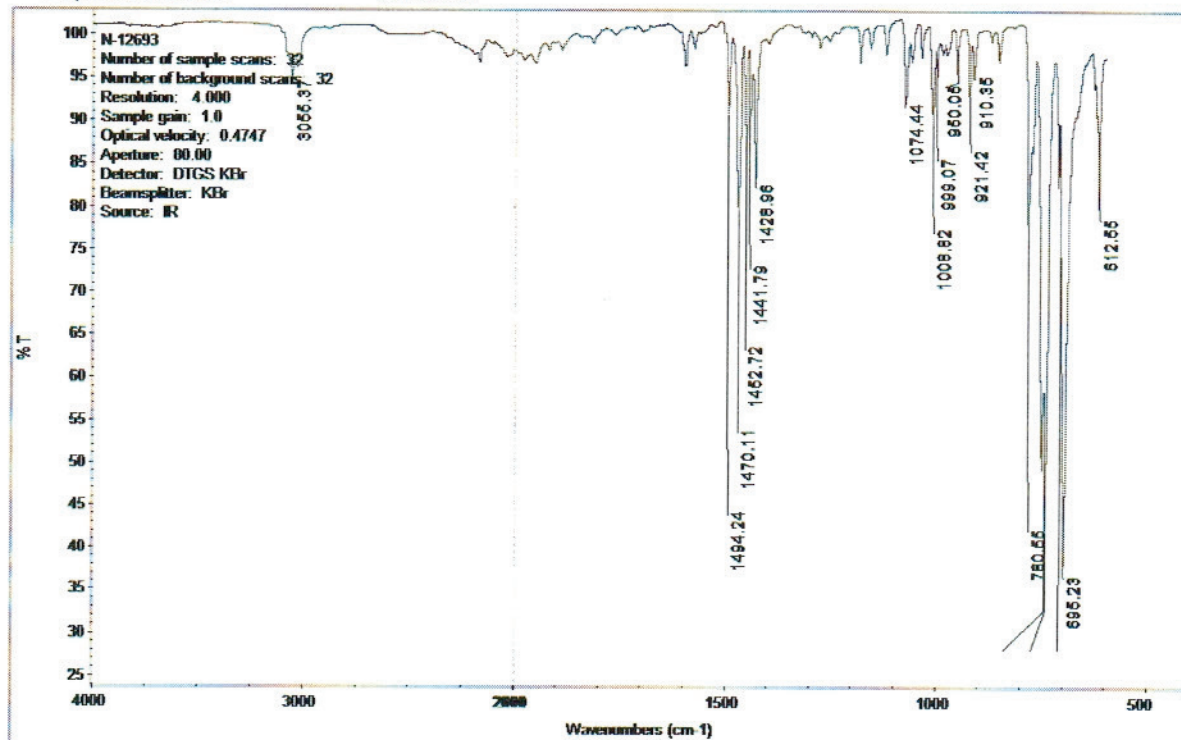
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Chem Service Inc      Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D  
Acq On : 23 Sep 2019 10:40  
Operator :  
Sample : n-12693  
Misc :  
ALS Vial : 95

Integration Parameters: autoint1.e  
Integrator: ChemStation

DataAcq Meth: SCREEN.M  
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

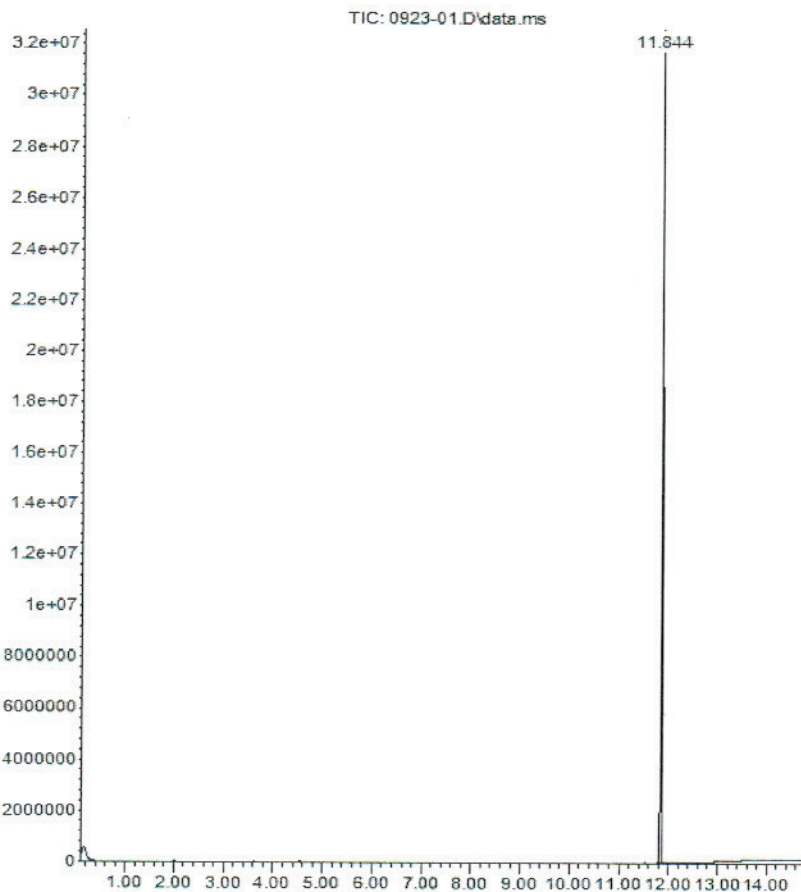
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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729  
[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
Lot Number: 9972100  
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



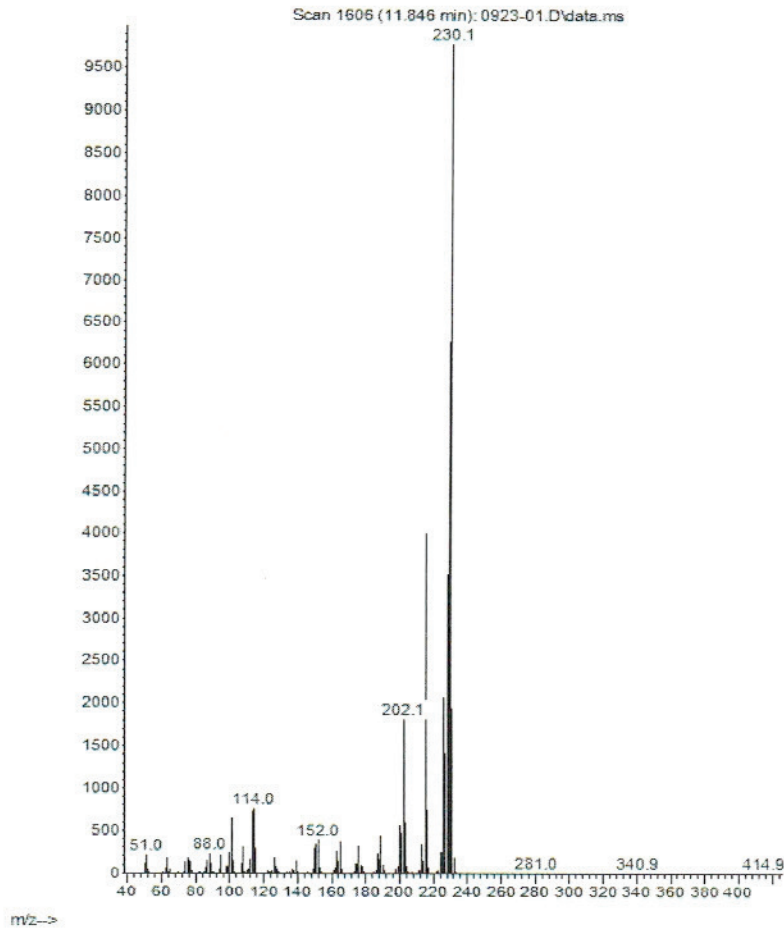
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## CERTIFICATE OF ANALYSIS

### Analysis Method:

Catalog Number: N-12693-500MG  
Description: o-Terphenyl  
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Expiration Date: 09/30/24

Abundance



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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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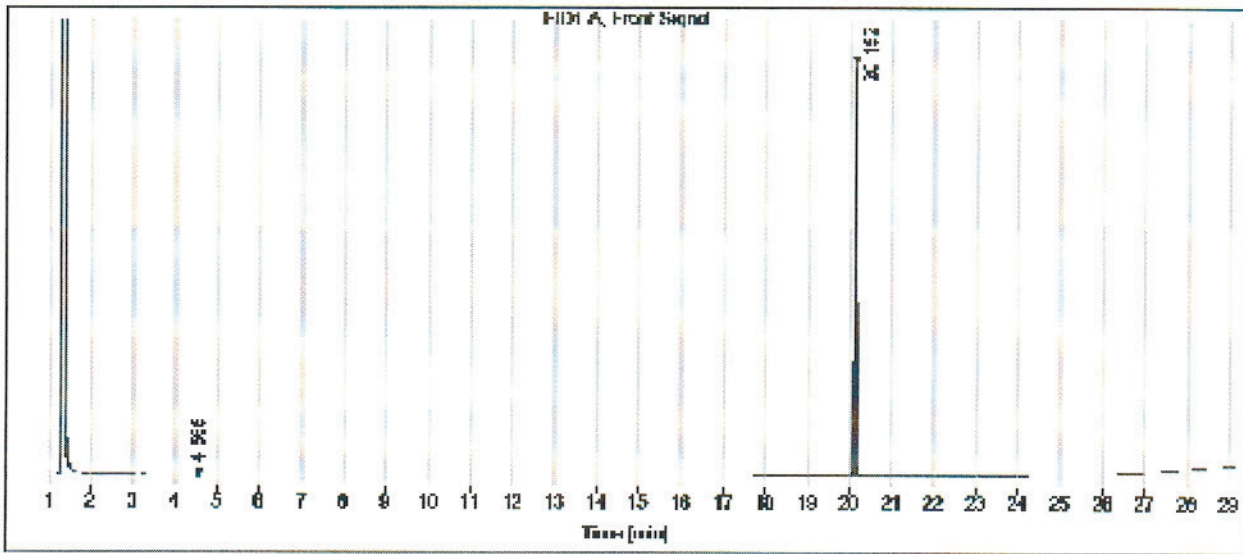
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[info@chemservice.com](mailto:info@chemservice.com) • [www.chemservice.com](http://www.chemservice.com)

Gas

**Data file:** C:\CHEM3\  
**Sample name:** N-12893  
**Instrument:** GC 2  
**Injection date:** 8/23/2019 9:58:34 AM  
**Acq. method:** SCREEN.M  
**Column name:** HP-5

## CERTIFICATE OF ANALYSIS

**Location:** Vial 141  
**Injection volume:** 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

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3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)

Email USA: [techserv@sial.com](mailto:techserv@sial.com)

Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:  
Triacontane-d62 - 98 atom % D

Product Number: 451789  
 Batch Number: MBBC4347  
 Brand: ALDRICH  
 CAS Number: 93952-07-9  
 MDL Number: MFCD00209794  
 Formula: C30D62  
 Formula Weight: 485.20 g/mol  
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: \_\_\_\_\_

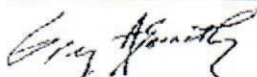
Triacontane-d62-98 atom % D

**Expires: 4/6/2026**

Rec'd: 4/6/2021

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Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor  
 Quality Control  
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31817 **Lot No.:** A0176667

**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 :** October 31, 2028 **Storage:** 25°C nominal

**Ship:** Ambient

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----%	50,102.0 µg/mL	+/- 293.3582	µg/mL	Gravimetric
	(Lot A0126386)		+/- 1,492.1008	µg/mL	Unstressed
			+/- 1,591.3244	µg/mL	Stressed

**Solvent:** Methylene chloride  
CAS # 75-09-2  
Purity 99%

**ID #: 14531**

Opened: \_\_\_\_\_

Residual Range Calibration Standard

**Expires: 10/31/2028**

Rec'd: 11/18/2021

Energv 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:**

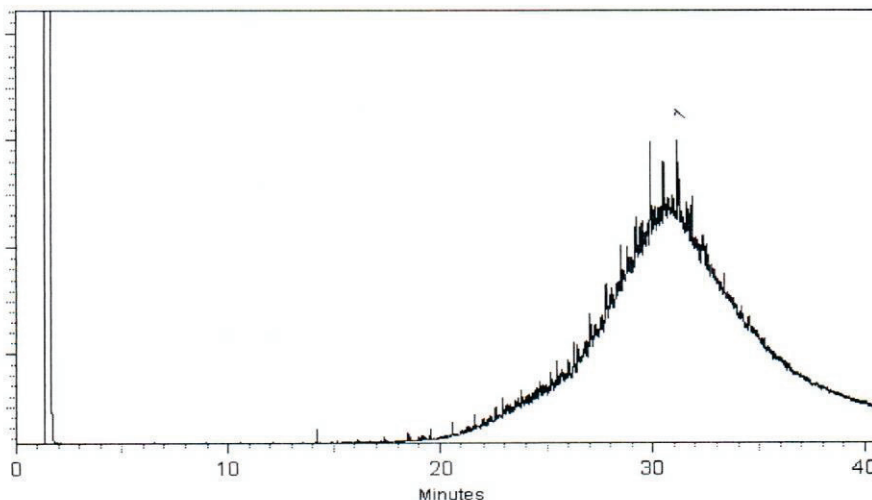
250°C

**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.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

*Alexis Shelow*

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

# 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

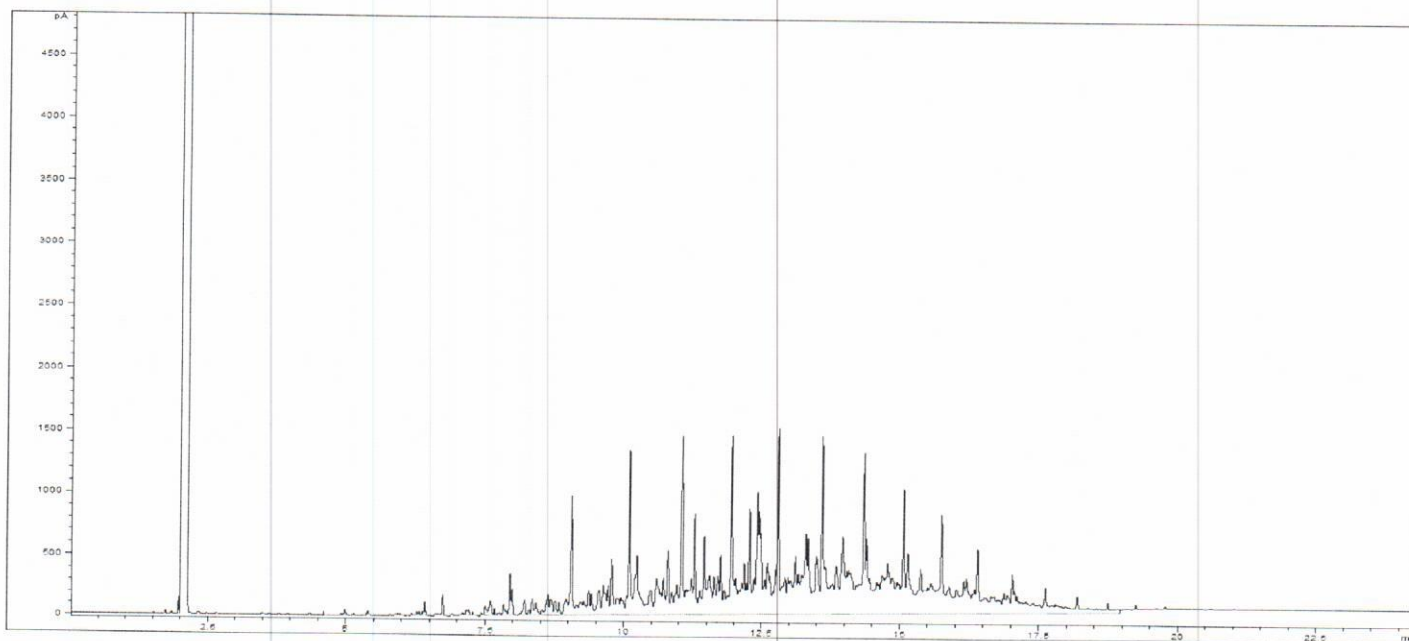
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

## Certified Values

Analyte	Certified Value <sup>1,4</sup>	Units	Raw Material Purity,%	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

## Informational Values



## Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H<sub>2</sub>, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



**SIGMA-ALDRICH®**

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA  
800-325-5832  
TechService@milliporesigma.com www.sigma-aldrich.com

# Description

Lot **LRAC6316**  
Expiration Date April 2023  
Manufacturing Date April 2020  
Storage Conditions Room Temperature  
Solvent/Matrix DICHLOROMETHANE

**1 Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.  
**4 Ucrm - Uncertainty values** in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**k:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

**6 Analytical Value-** For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

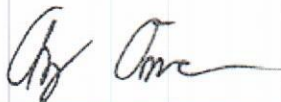
**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Homogeneity:** Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

**THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).**



Andy Ommen - QC Manager

Certification Date April 30, 2020  
Version 0-4302020



Mark Pooler - QA Supervisor

