

Energy Laboratories Inc

ANALYTICAL RUN Summary

18-Oct-21

Run ID GCFID-HP4-B_211006C

Run Start Date: 10/6/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments:

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

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14764037	CCV_1006HP43	HC-8015-DRO-	CAL1		10/7/2021 1:07:4	1	R368536		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.0019847		0.002	0	0	0	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
14764038	CCV_1006HP43	HC-8015-DRO-	CAL2		10/7/2021 1:53:0	1	R368536		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.04853713		0.05	0	0	0.002	0.002	0	97%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14764039	CCV_1006HP43	HC-8015-DRO-	CAL3		10/7/2021 2:38:3	1	R368536		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.2121789		0.2	0	0	0.002	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
14764040	CCV_1006HP43	HC-8015-DRO-	CAL4		10/7/2021 3:23:5	1	R368536		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.4903055		0.5	0	0	0.002	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					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
14764041	CCV_1006HP43	HC-8015-DRO-	CAL5		10/7/2021 4:09:3	1	R368536		0	0						
n-Triacontane	S	mg/L		0.9788904		1	0	0	0.002	0.002	0	98%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP4\DAT\HP4100621_b\1006HP4.28r	CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A	G:\org\HP4\Methods\CSC211006.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.29r	DCM-Baseline Check-V29	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.30r	CCV_1006HP407r, CAL1 ;1006HP4 , 2 ug per mL Triacotane (10 uL of Cal3 + 990 uL DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.31r	CCV_1006HP408r, CAL2 ;1006HP4 , 50 ug per mL Triacotane (100 uL Cal4 + 900 uL of DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.32r	CCV_1006HP409r, CAL3 ;1006HP4 , 200 ug per mL Triacotane (100uL of Cal5 + 400 uL DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.33r	CCV_1006HP404r, CAL4 ;1006HP4 , 500 ug per mL Triacotane (250uL of Cal5 + 250 uL DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.34r	CCV_1006HP405r, CAL5 ;1006HP4 , 1000 ug per mL Triacotane (500 uL 2000 ug/mL Triacotane DRO211006A + 500 DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0

File Name: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL
Version: 43

Creator: AMN
Description: 8015C-Oil Range w/Triacontane. New ICal Per 1006HP4 (2021)-2 uL Inj.;
Reason for change:

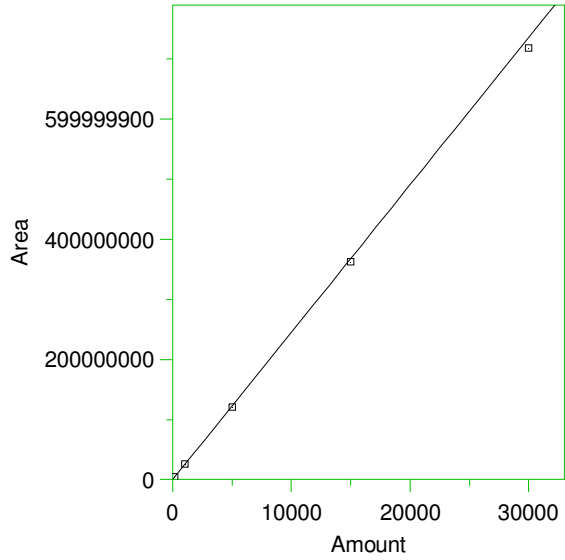
External standard calibration

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.

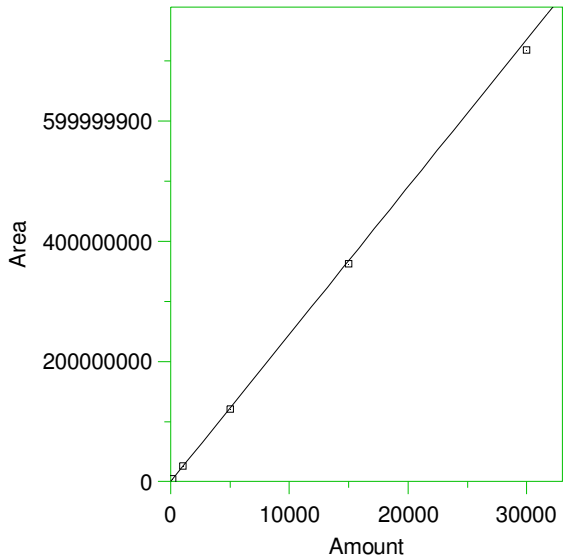
1 *30-40 Motor Oil



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
 $Y = 24529.56 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9990484
 Average error: 1.972%
 Average CF: 24529.56
 RSD: 2.304%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	3765836	25105.57	2.348	Manual	1/1/2022 10:32:22 AM
2	1000	2.516261E+07	25162.61	2.581	Manual	10/7/2021 12:56:01 PM
3	5000	1.213971E+08	24279.42	-1.020	Manual	10/7/2021 12:55:18 PM
4	15000	3.623479E+08	24156.53	-1.521	Manual	10/7/2021 12:55:30 PM
5	30000	7.183105E+08	23943.68	-2.388	Manual	10/7/2021 12:55:47 PM

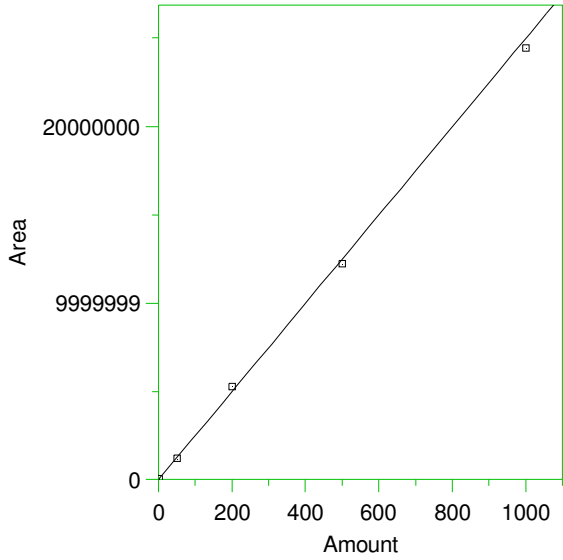
2 #C20



Expected retention time: 12.58 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 Y = 24529.56 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9990484
 Average error: 1.972%
 Average CF: 24529.56
 RSD: 2.304%

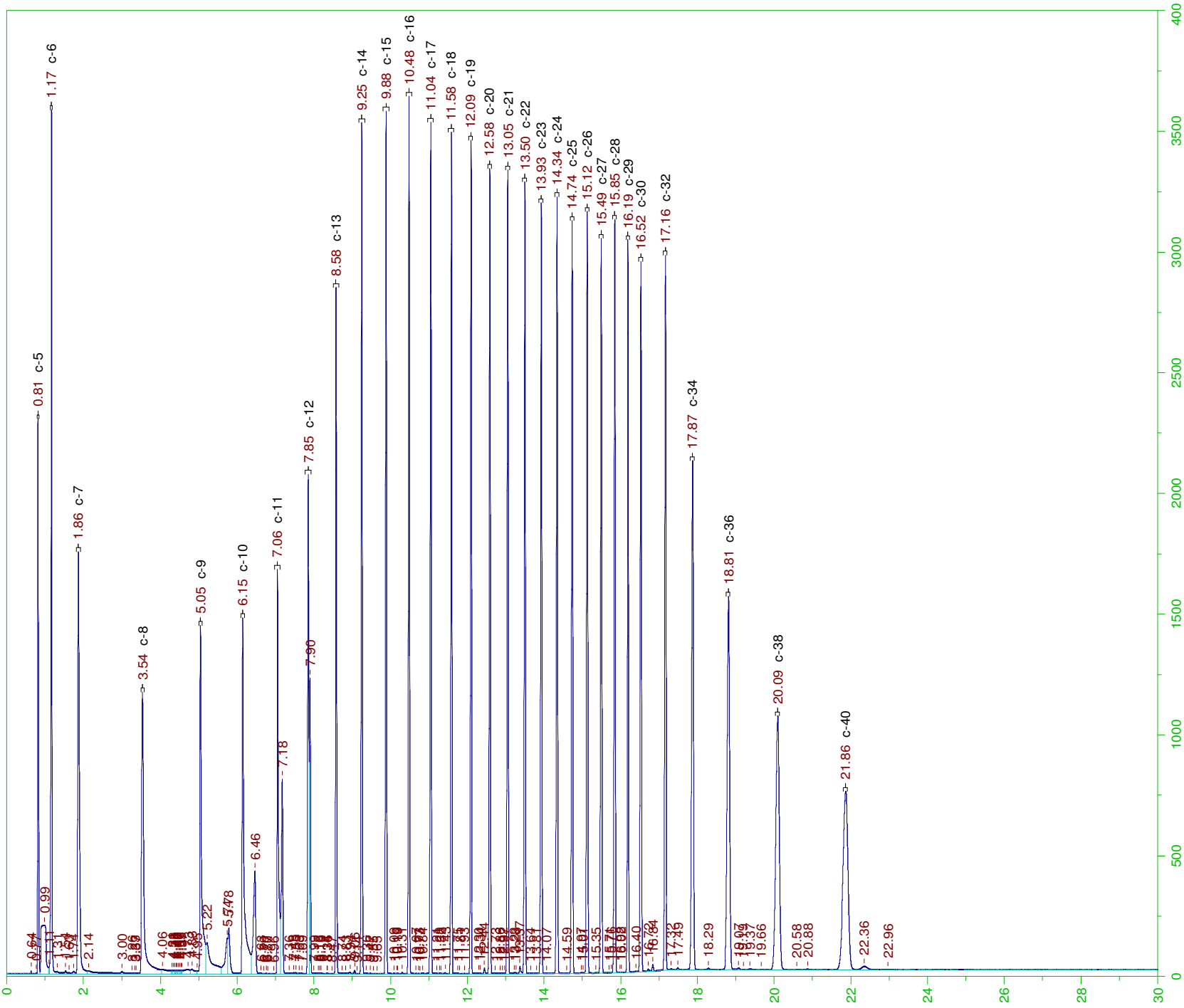
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	3765836	25105.57	2.348	Manual	1/1/2022 10:32:46 AM
2	1000	2.516261E+07	25162.61	2.581	Manual	1/1/2022 10:32:43 AM
3	5000	1.213971E+08	24279.42	-1.020	Manual	1/1/2022 10:32:41 AM
4	15000	3.623479E+08	24156.53	-1.521	Manual	1/1/2022 10:32:39 AM
5	30000	7.183105E+08	23943.68	-2.388	Manual	1/1/2022 10:32:36 AM

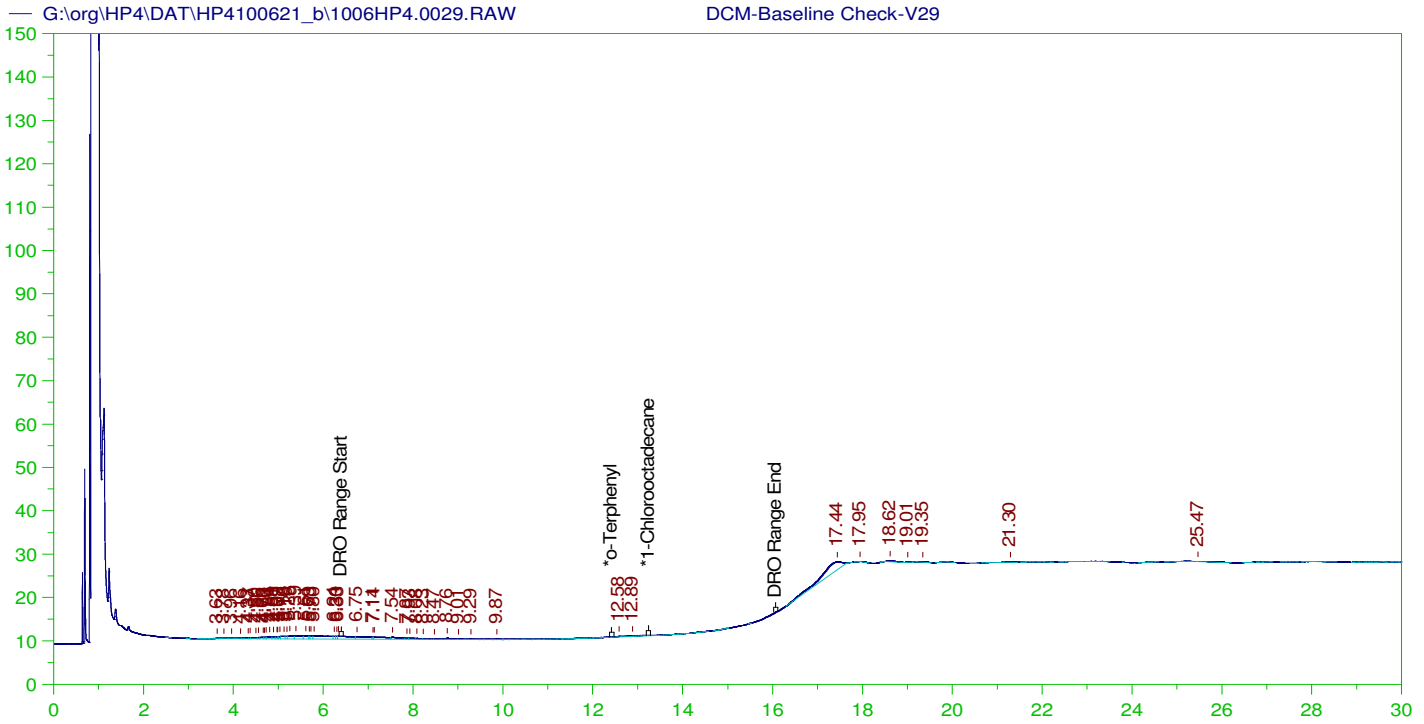
3 *#Triacontane



Expected retention time: 16.34 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
 $Y = 24973.81 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9989417
 Average error: 2.783%
 Average CF: 24973.81
 RSD: 3.701%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	50369.5	25184.75	0.845	Manual	10/7/2021 1:17:20 PM
2	50	1212157	24243.14	-2.926	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0015.BND	10/7/2021 12:47:26 PM
3	200	5300126	26500.63	6.114	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0017.BND	10/7/2021 12:47:56 PM
4	500	1.22448E+07	24489.6	-1.939	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0019.BND	10/7/2021 12:48:04 PM
5	1000	2.445095E+07	24450.95	-2.094	Manual	10/7/2021 4:09:51 PM





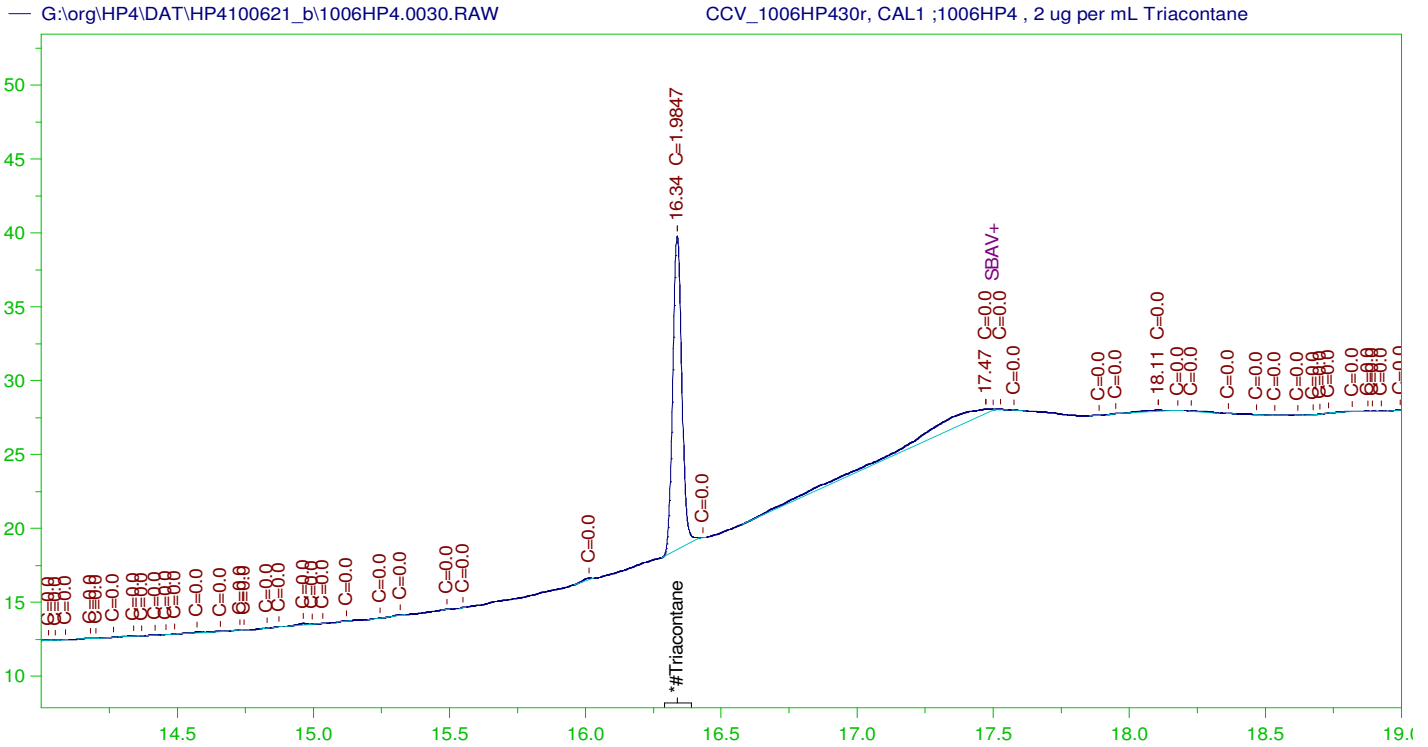
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V29
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0029.RAW
 Date & Time Acquired: 10/7/2021 12:22:20 PM
 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

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

DRO Area:46051.94 DRO Amount: 1.769218
 TEH Area:213678.8 TEH Amount: 8.209086



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1006HP430r, CAL1 ;1006HP4 , 2 ug per mL Triacontane
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0030.RAW
 Date & Time Acquired: 10/7/2021 1:07:43 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.53 to 30.05

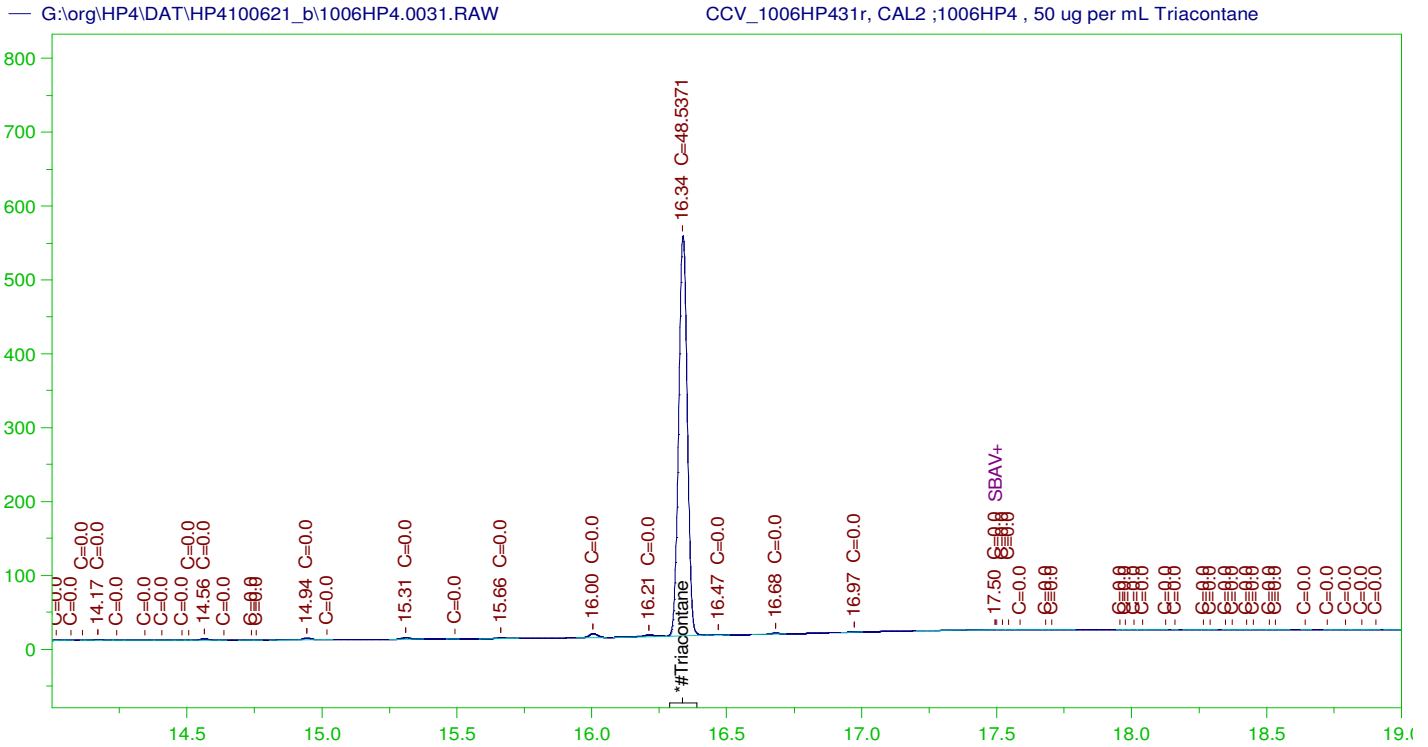
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.337	500.	1.985	.4

RRO Area:16216.42 RRO AMOUNT: 0.6610969

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0030.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.337	200.	1.985	.99	75-125



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1006HP431r, CAL2 ;1006HP4 , 50 ug per mL Triacontane
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0031.RAW
 Date & Time Acquired: 10/7/2021 1:53:07 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.53 to 30.05

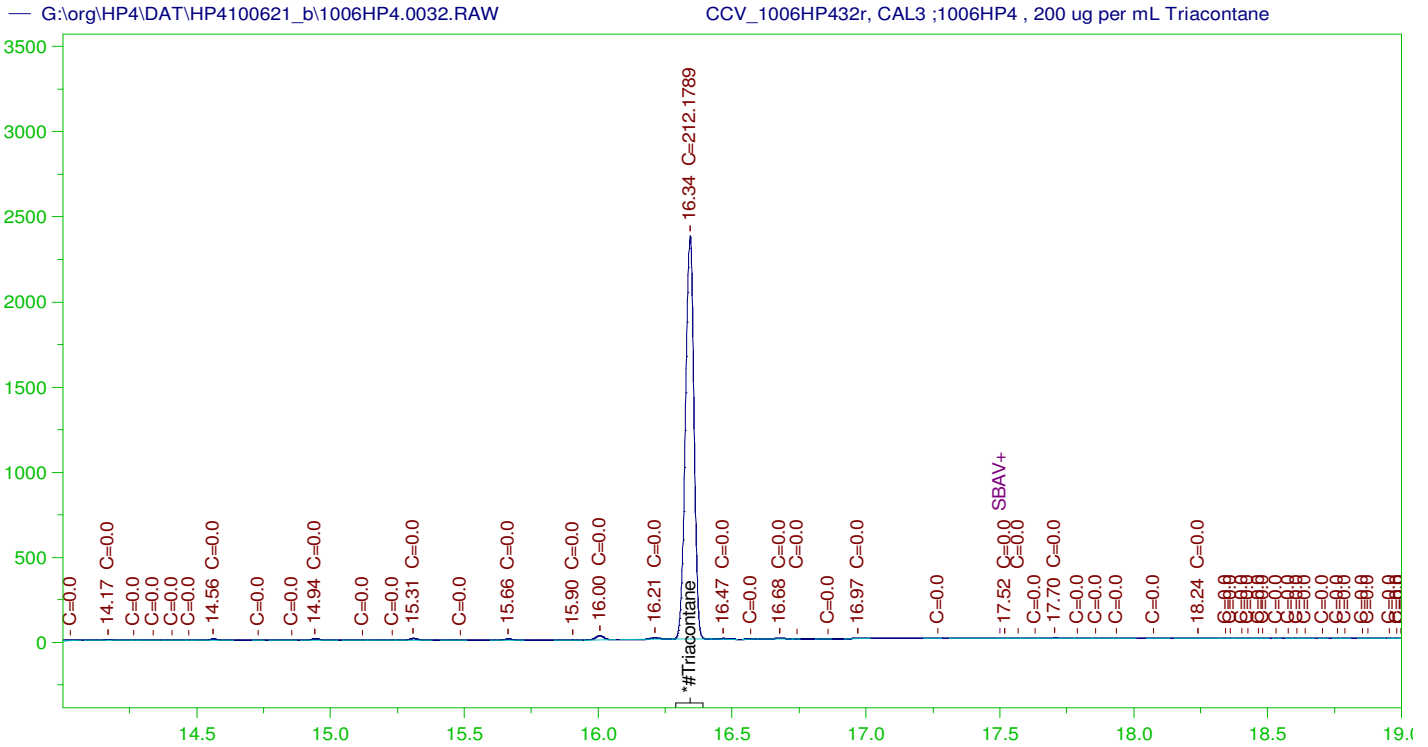
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.337	500.	48.537	9.71	-

RRO Area:50498.79 RRO AMOUNT: 2.058691

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0031.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.337	200.	48.537	24.27	75-125



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1006HP432r, CAL3 ;1006HP4 , 200 ug per mL Triacontane
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0032.RAW
 Date & Time Acquired: 10/7/2021 2:38:34 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.53 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.343	500.	212.179	42.44	-

RRO Area:223185.5 RRO AMOUNT: 9.098632

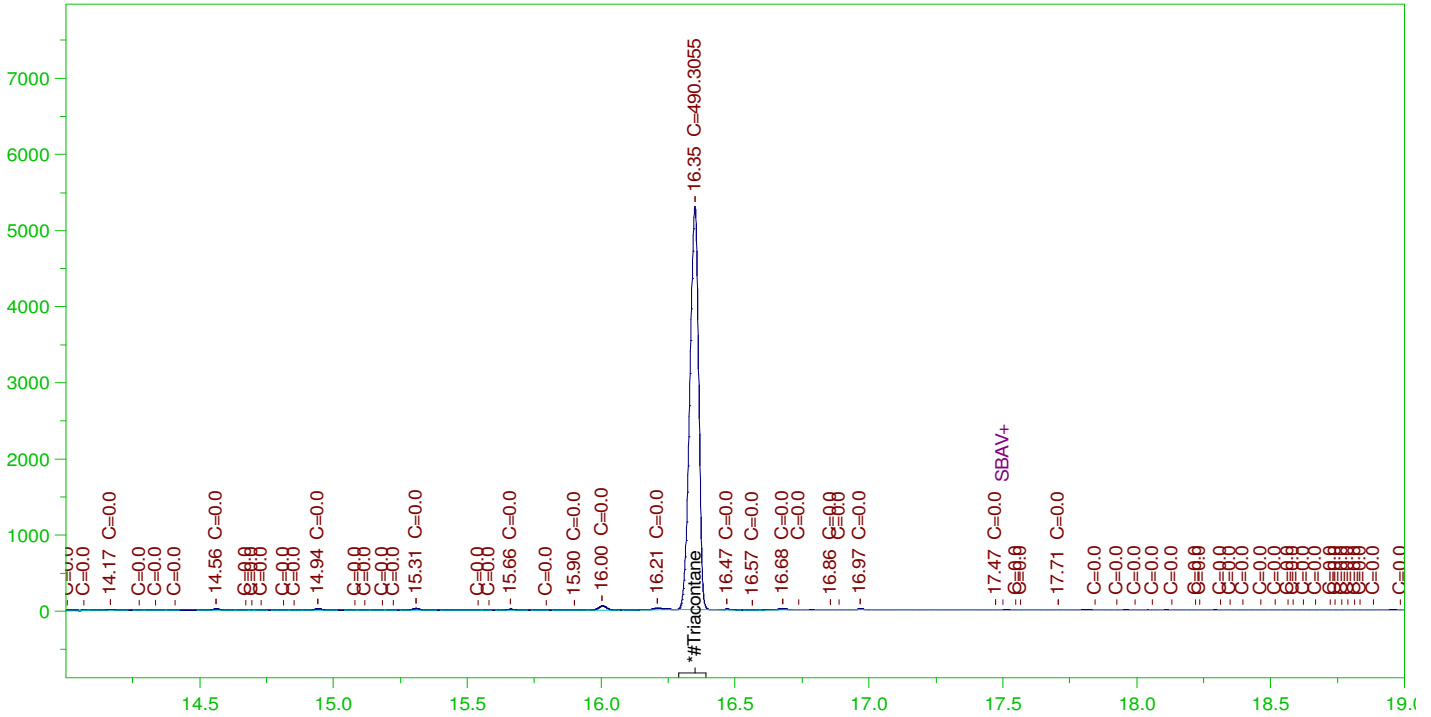
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0032.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.343	200.	212.179	106.09	75-125

G:\org\HP4\DAT\HP4100621_b\1006HP4.0033.RAW

CCV_1006HP433r, CAL4 ;1006HP4 , 500 ug per mL Triacontane



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1006HP433r, CAL4 ;1006HP4 , 500 ug per mL Triacontane
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0033.RAW
 Date & Time Acquired: 10/7/2021 3:23:59 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.53 to 30.05

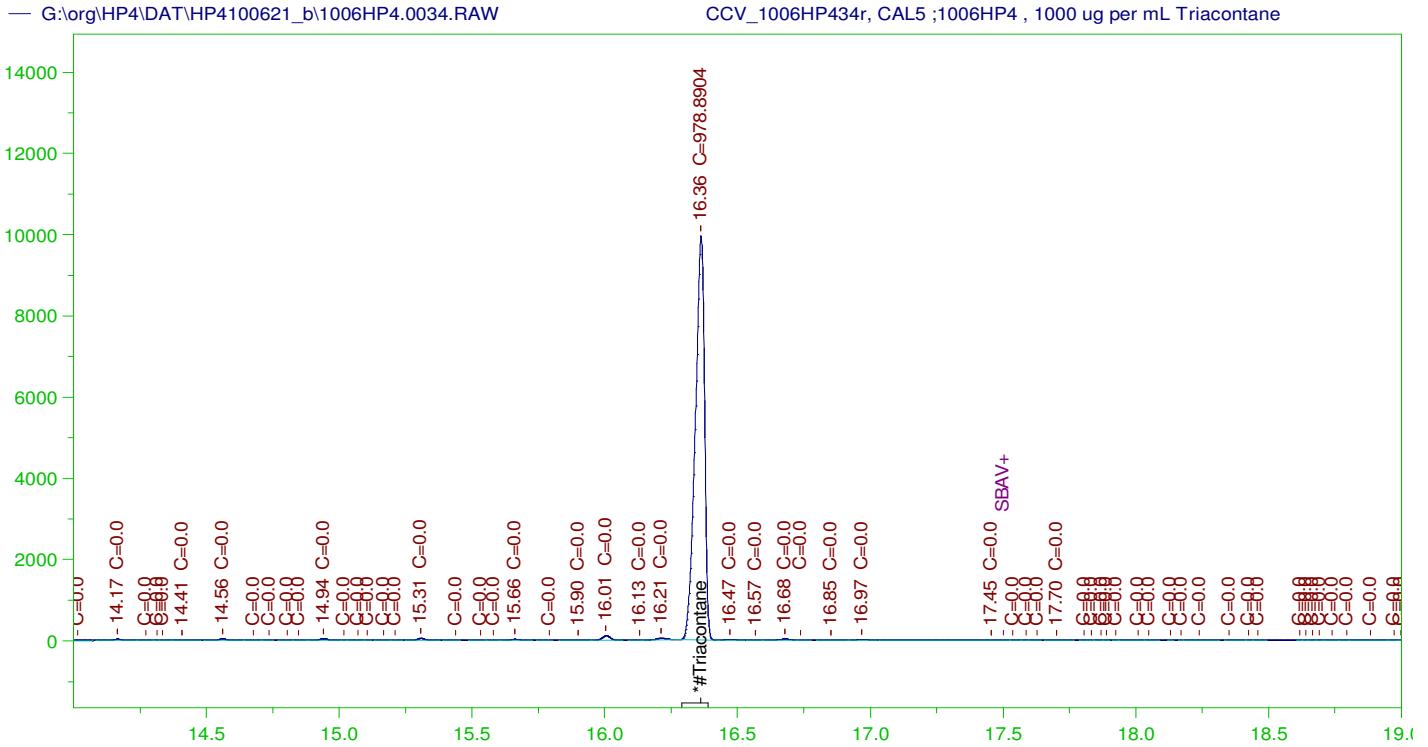
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.35	500.	490.306	98.06	-

RRO Area:522651.3 RRO AMOUNT: 21.307

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0033.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.35	200.	490.306	245.15	75-125



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_1006HP434r, CAL5 ;1006HP4 , 1000 ug per mL Triacontane
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0034.RAW
 Date & Time Acquired: 10/7/2021 4:09:35 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.53 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.363	500.	978.89	195.78

RRO Area:1029665 RRO AMOUNT: 41.9765

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0034.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.363	200.	978.89	489.45	75-125

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.28r	CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A	G:\org\HP4\Methods\CSC211006.met	1	1	1	1	0	No Integration
	G:\org\HP4\DAT\HP4100621_b1006HP4.29r	DCM-Baseline Check-V29	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No Integration
	G:\org\HP4\DAT\HP4100621_b1006HP4.30r	CCV_1006HP407r, CAL1 ;1006HP4 , 2 ug per mL Triacotane (10 uL of Cal3 + 990 uL DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0	The integration of Triacotane is integrated using a valley to valley integration.
	G:\org\HP4\DAT\HP4100621_b1006HP4.31r	CCV_1006HP408r, CAL2 ;1006HP4 , 50 ug per mL Triacotane (100 uL Cal4 + 900 uL of DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0	The integration of Triacotane is integrated using a valley to valley integration.
	G:\org\HP4\DAT\HP4100621_b1006HP4.32r	CCV_1006HP409r, CAL3 ;1006HP4 , 200 ug per mL Triacotane (100uL of Cal5 + 400 uL DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0	The integration of Triacotane is integrated using a valley to valley integration.
	G:\org\HP4\DAT\HP4100621_b1006HP4.33r	CCV_1006HP404r, CAL4 ;1006HP4 , 500 ug per mL Triacotane (250uL of Cal5 + 250 uL DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0	The integration of Triacotane is integrated using a valley to valley integration.
	G:\org\HP4\DAT\HP4100621_b1006HP4.34r	CCV_1006HP405r, CAL5 ;1006HP4 , 1000 ug per mL Triacotane (500 uL 2000 ug/mL Triacotane DRO211006A + 500 DCM(14354)	G:\Org\HP4\Methods\DS_ORO-AA-L%.met	1	1	1	1	0	The integration of Triacotane is integrated using a valley to valley integration.



Digitally signed by
Ann Nebel
Date: 2022.01.26 11:36:11 -07:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

13-Oct-21

Run ID GCFID-HP4-B_211006B

Run Start Date: 10/6/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments: 8015C Oil Range

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO180918C	50,000 ug/mL Oil Std For AK103 RRO-In DCM					CAL-OIL	8/31/2025
DRO210902A	50,000 ug/mL Oil Std for RRO-In DCM					Second Sou	9/1/2026

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
14764069	CCV_1006HP41	HC-8015-DRO-	CAL1		10/7/2021 12:16:	1	R368535			0	0				
Analyte		T Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD Q
TEH(Oil Range)		A mg/L		0.1652093		0.15	0	0	0	0.3	0	110%	80	120	0%
14764070	CCV_1006HP41	HC-8015-DRO-	CAL2		10/7/2021 1:47:3	1	R368535			0	0				
Analyte		T Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD Q
TEH(Oil Range)		A mg/L		1.022149		1	0	0	0	0.3	0	102%	80	120	0%
14764071	CCV_1006HP41	HC-8015-DRO-	CAL3		10/7/2021 3:19:0	1	R368535			0	0				
Analyte		T Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD Q
TEH(Oil Range)		A mg/L		4.956371		5	0	0	0	0.3	0	99%	80	120	0%
14764072	CCV_1006HP41	HC-8015-DRO-	CAL4		10/7/2021 4:50:1	1	R368535			0	0				
Analyte		T Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14764072	CCV_1006HP41	HC-8015-DRO-	CAL4		10/7/2021 4:50:1	1	R368535		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		14.79833		15	0	0	0	0.3	0	99%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14764073	CCV_1006HP42	HC-8015-DRO-	CAL5		10/7/2021 6:21:2	1	R368535		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		29.29968		30	0	0	0	0.3	0	98%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14764074	CCV_1006HP42	HC-8015-DRO-	ICV		10/7/2021 9:21:4	1	R368535		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		5.390338		5	0	0	0	0.3	0	108%	80	120	0%	

File Name: G:\Org\HP4\Cals\SW8015C_ORO211007AA.CAL

Version: 43

Creator: AMN

Description: 8015C-Oil Range w/Triacontane. New ICal Per 1006HP4 (2021)-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

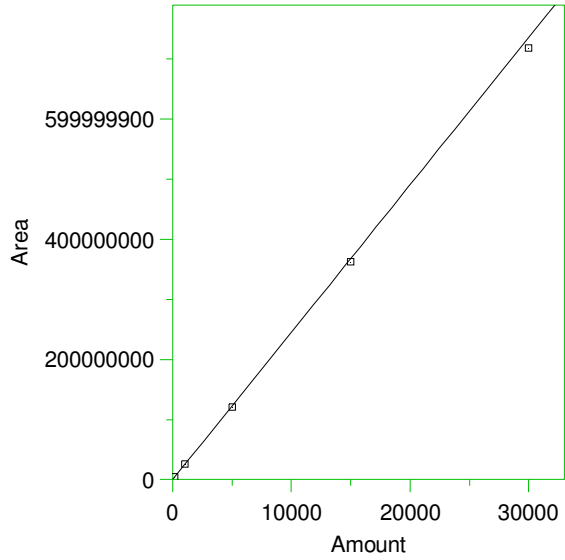
No default component

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

No calibration update report

All levels are normal data points.

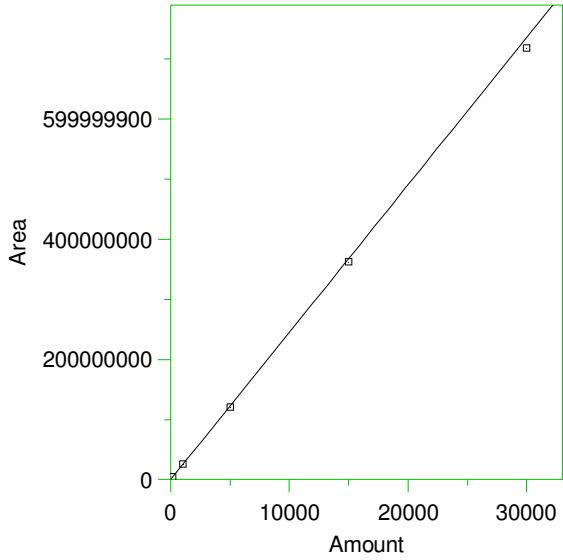
1 *30-40 Motor Oil



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 = 24529.56 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9990484
 Average error: 1.972%
 Average CF: 24529.56
 RSD: 2.304%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	3765836	25105.57	2.348	Manual	1/1/2022 10:32:22 AM
2	1000	2.516261E+07	25162.61	2.581	Manual	10/7/2021 12:56:01 PM
3	5000	1.213971E+08	24279.42	-1.020	Manual	10/7/2021 12:55:18 PM
4	15000	3.623479E+08	24156.53	-1.521	Manual	10/7/2021 12:55:30 PM
5	30000	7.183105E+08	23943.68	-2.388	Manual	10/7/2021 12:55:47 PM

2 #C20



Expected retention time: 12.58 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0

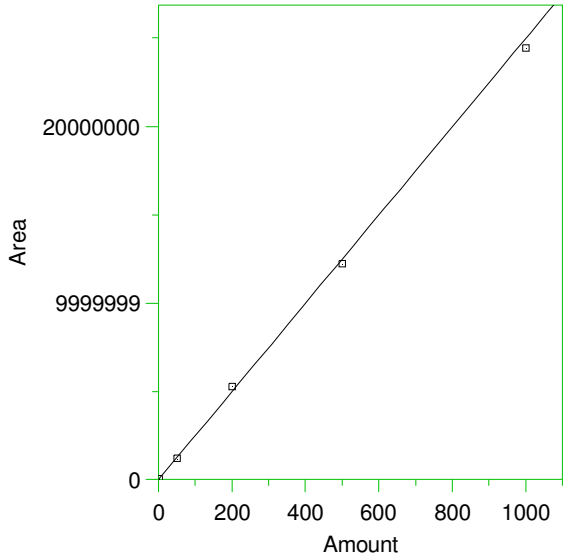
Single peak quantification by area

$Y = 24529.56 X + 0$

Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9990484
 Average error: 1.972%
 Average CF: 24529.56
 RSD: 2.304%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	3765836	25105.57	2.348	Manual	1/1/2022 10:32:46 AM
2	1000	2.516261E+07	25162.61	2.581	Manual	1/1/2022 10:32:43 AM
3	5000	1.213971E+08	24279.42	-1.020	Manual	1/1/2022 10:32:41 AM
4	15000	3.623479E+08	24156.53	-1.521	Manual	1/1/2022 10:32:39 AM
5	30000	7.183105E+08	23943.68	-2.388	Manual	1/1/2022 10:32:36 AM

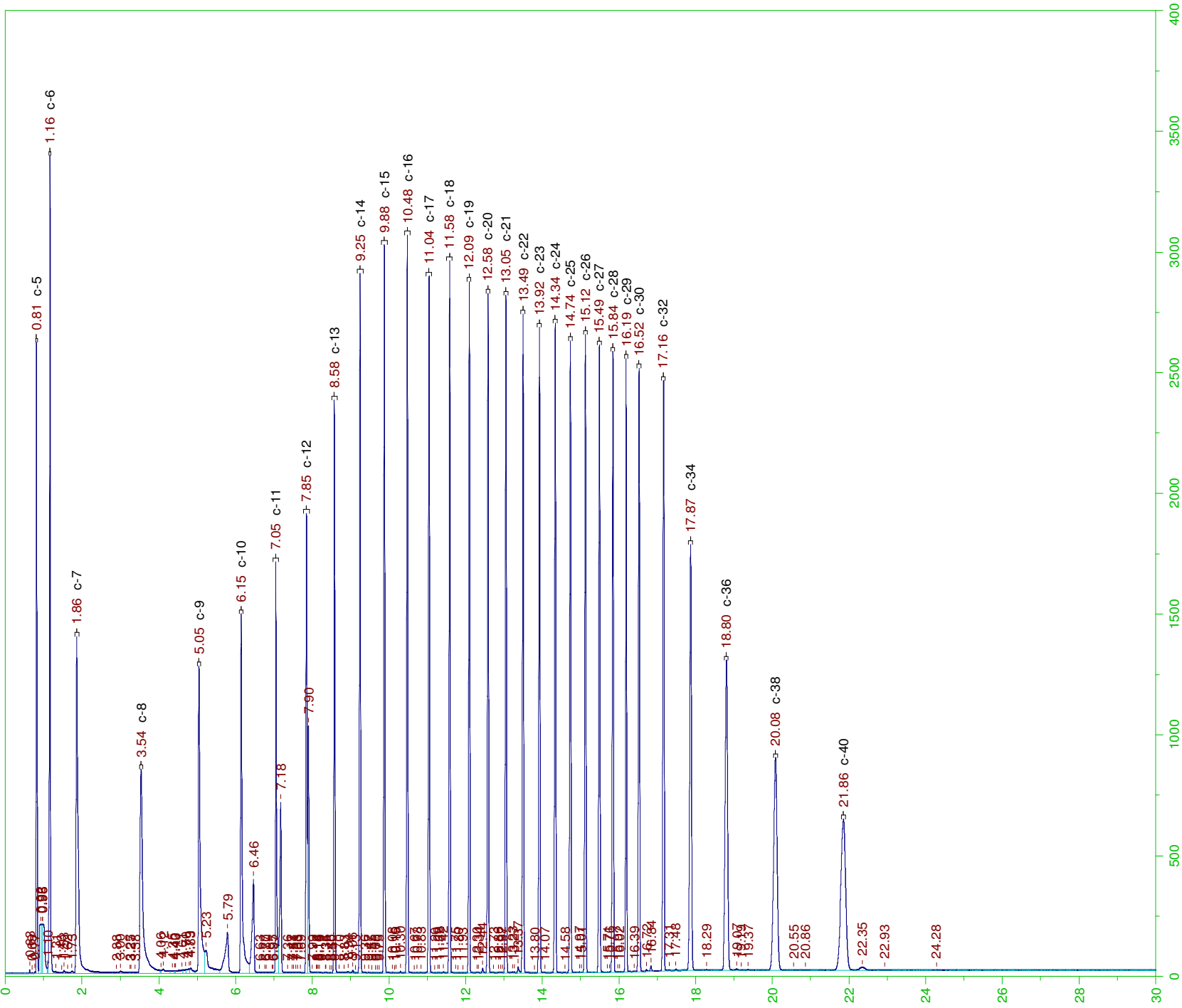
3 *#Triacontane

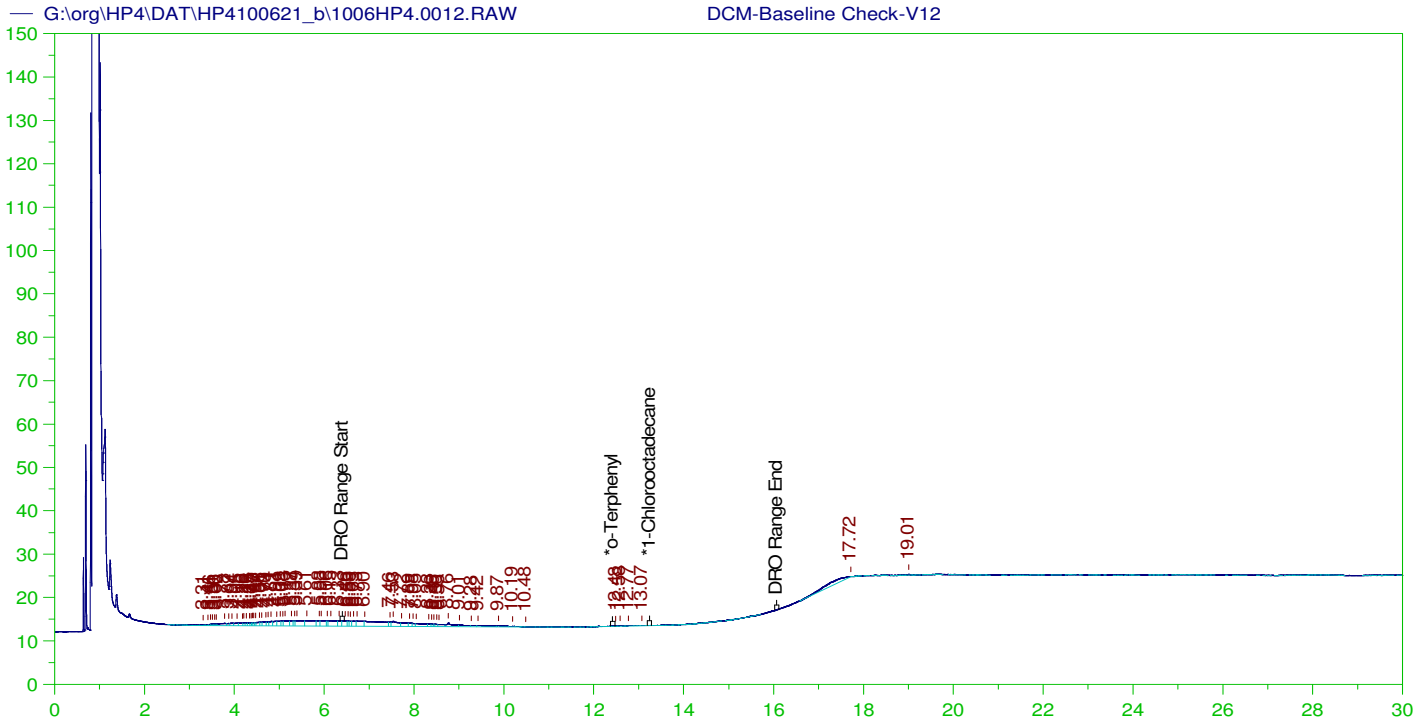


Expected retention time: 16.34 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 Y = 24973.81 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9989417
 Average error: 2.783%
 Average CF: 24973.81
 RSD: 3.701%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	50369.5	25184.75	0.845	Manual	10/7/2021 1:17:20 PM
2	50	1212157	24243.14	-2.926	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0015.BND	10/7/2021 12:47:26 PM
3	200	5300126	26500.63	6.114	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0017.BND	10/7/2021 12:47:56 PM
4	500	1.22448E+07	24489.6	-1.939	G:\Org\HP4\DAT\HP4100621_b\1006HP4.0019.BND	10/7/2021 12:48:04 PM
5	1000	2.445095E+07	24450.95	-2.094	Manual	10/7/2021 4:09:51 PM

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\HP4\DAT\HP4100621_b\1006HP4.11r	CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A	G:\org\HP4\Methods\CSC211006.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.12r	DCM-Baseline Check-V12	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.13r	CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.14r	DCM-Baseline Check-V14	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.15r	CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.16r	DCM-Baseline Check-V16	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.17r	CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil (200 uL of Cal 4 + 400 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.18r	DCM-Baseline Check-V18	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.19r	CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.20r	DCM-Baseline Check-V20	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.21r	CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM)(14354)	G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.22r	DCM-Baseline Check-V22	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.23r	DCM-Baseline Check-V23	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.24r	DCM-Baseline Check-V24	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4100621_b\1006HP4.25r	CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL Oil (100 uL of DRO210902A + 900 uL of DCM)	G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met	1	1	1	1	0





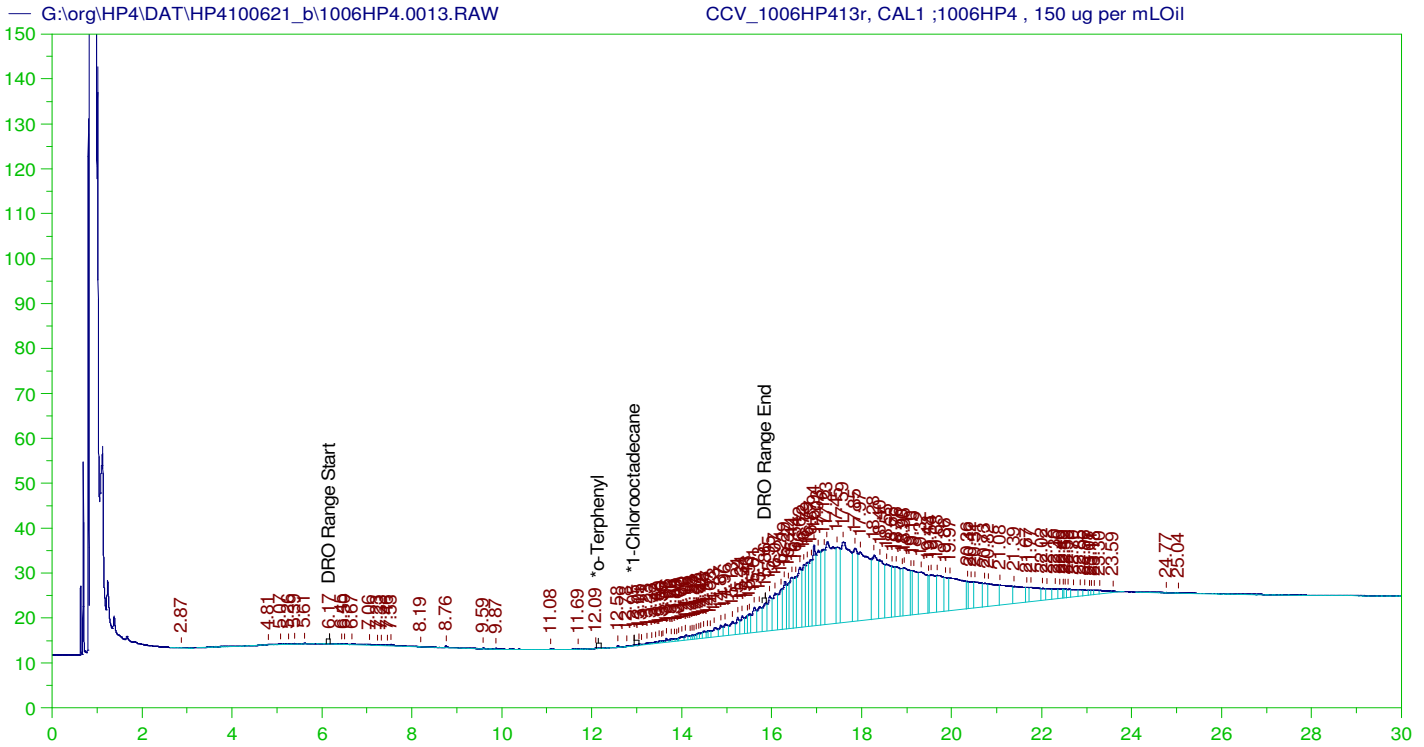
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V12
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0012.RAW
 Date & Time Acquired: 10/6/2021 11:30:37 PM
 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.914	200.	.	-
*1-Chlorooctadecane	29.914	200.	.	-

DRO Area:151604.2 DRO Amount: 5.824311
 TEH Area:344150.3 TEH Amount: 13.22152



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mLOil
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0013.RAW
 Date & Time Acquired: 10/7/2021 12:16:08 AM
 Method File: G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56

Rt range for Diesel Range Organics: 6.09 to 15.88

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.973	200.	.	-
*1-Chlorooctadecane	12.946	200.	.024	.01

DRO Area: 350454.1

DRO Amount: 14.28701

TEH (Oil Range) Area: 4052512

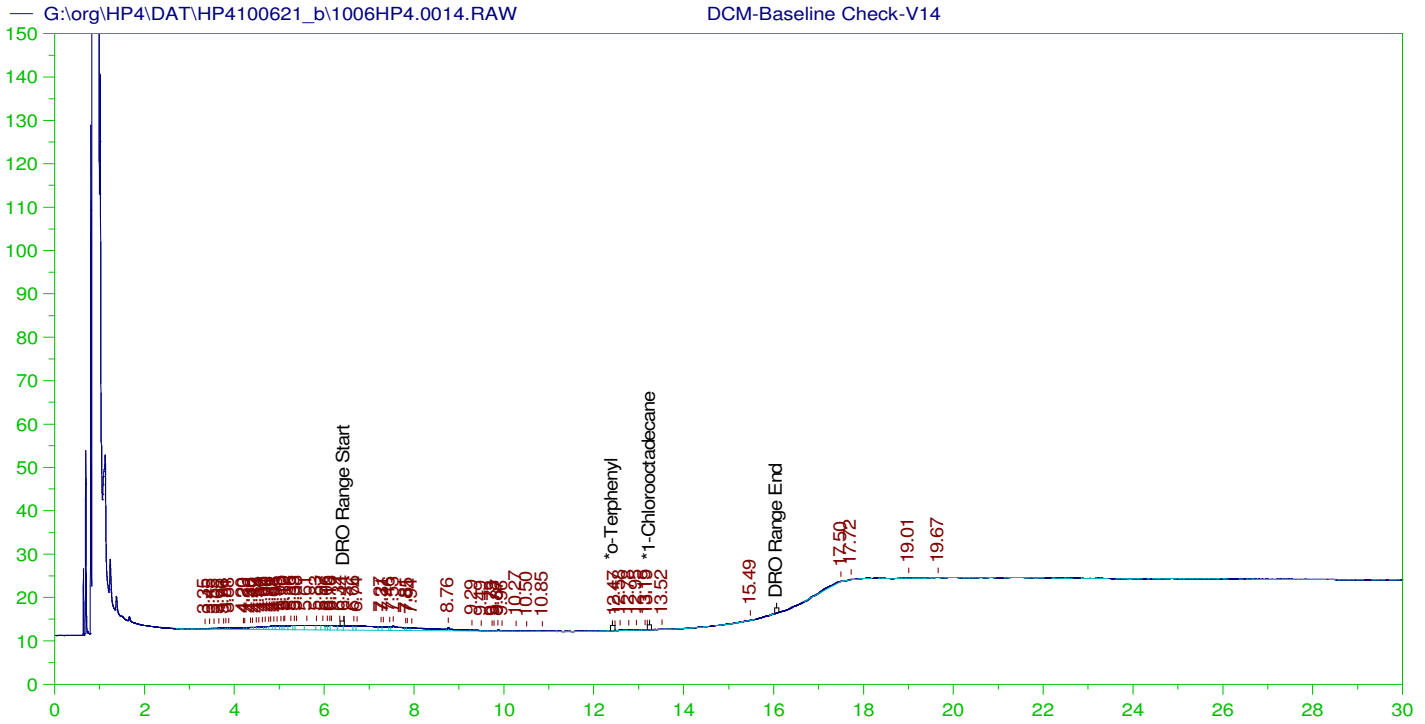
TEH (Oil Range) Amount: 165.2093

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	5000.	165.21	3.3	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	29.973	200.	.	.	85-115
*1-Chlorooctadecane	12.946	200.	.024	.01	85-115

AMN 10/13/2021



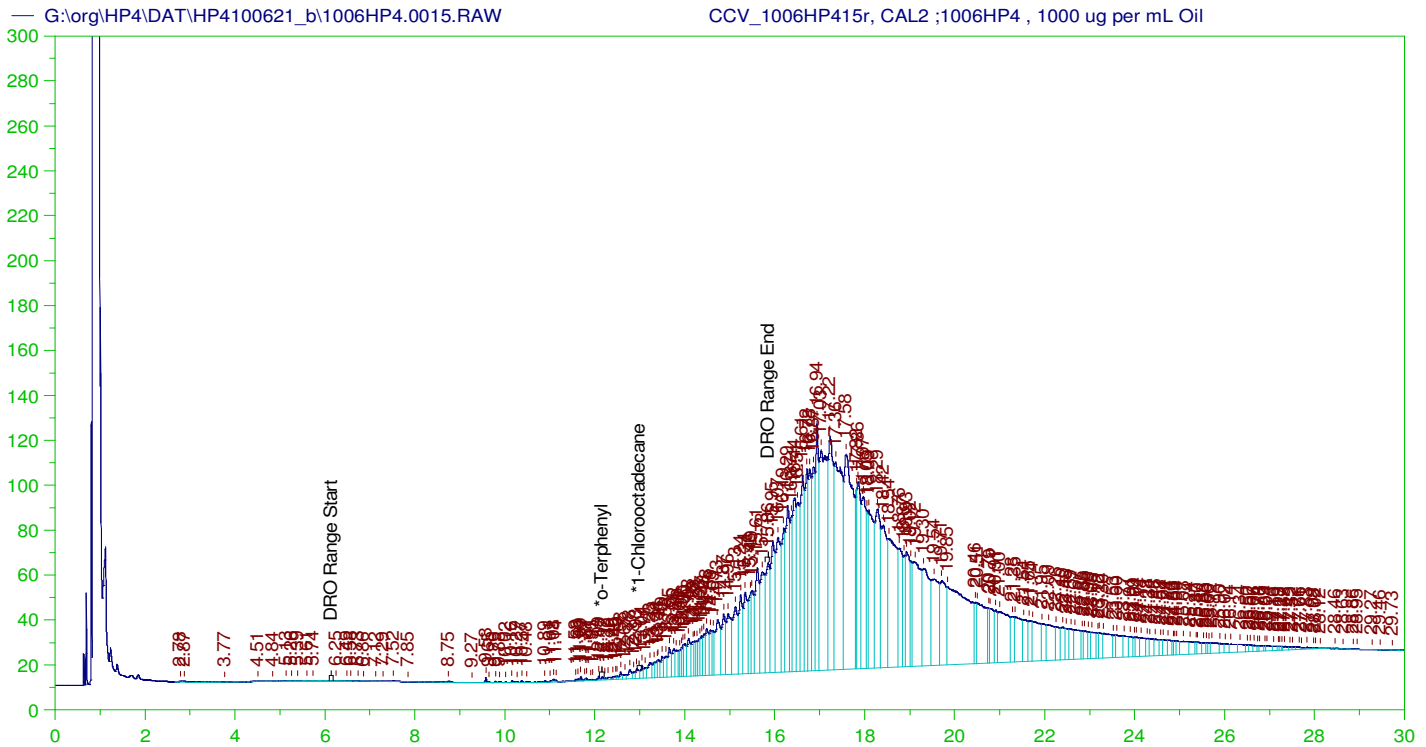
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V14
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 Date & Time Acquired: 10/7/2021 1:01:51 AM
 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.884	200.	.	-
*1-Chlorooctadecane	29.884	200.	.	-

DRO Area:131624.4 DRO Amount: 5.056731
 TEH Area:277425.9 TEH Amount: 10.65811



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0015.RAW
 Date & Time Acquired: 10/7/2021 1:47:37 AM
 Method File: G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56

Rt range for Diesel Range Organics: 6.09 to 15.88

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.166	200.	.147	.07
*1-Chlorooctadecane	29.932	200.	.	.

DRO Area: 3765940

DRO Amount: 153.5266

TEH (Oil Range) Area: 2.507288E+07

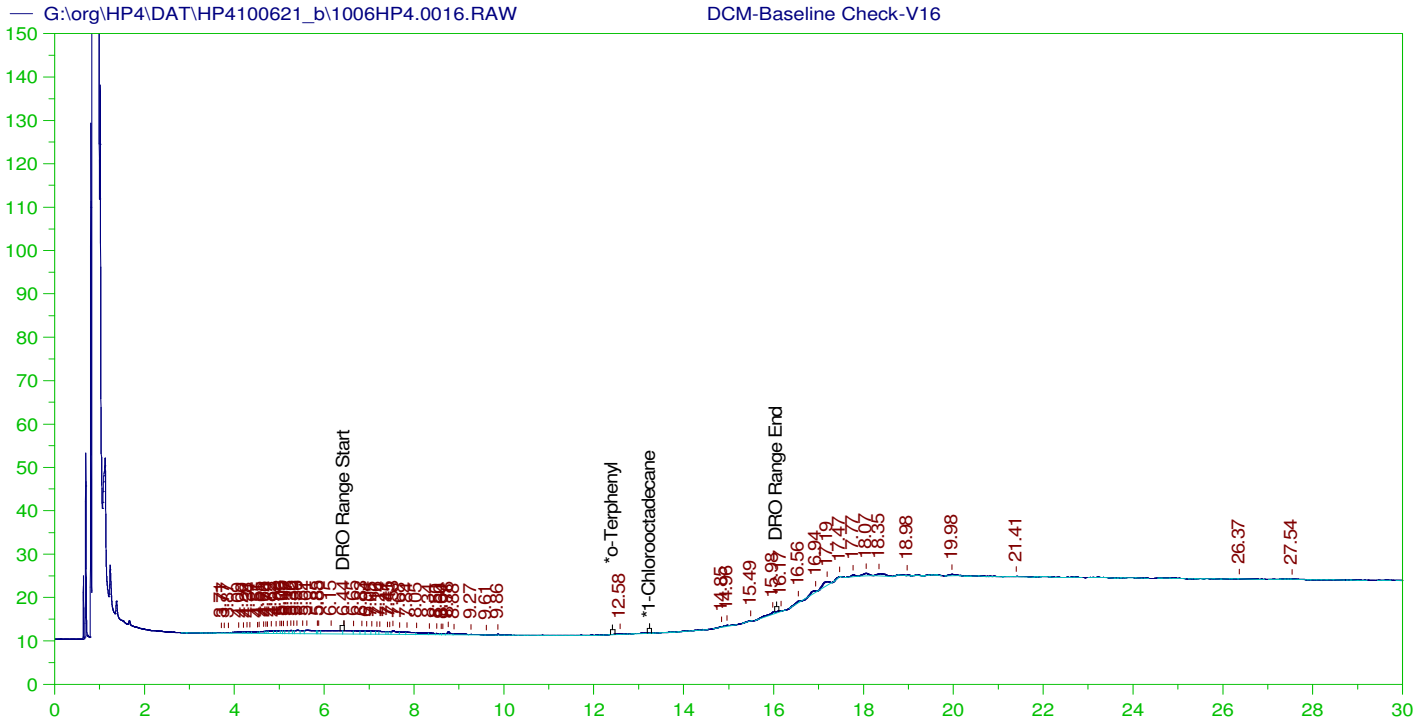
TEH (Oil Range) Amount: 1022.149

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0015.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	5000.	1022.15	20.44	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.166	200.	.147	.07	85-115
*1-Chlorooctadecane	29.932	200.	.	.	85-115

AMN 10/13/2021



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

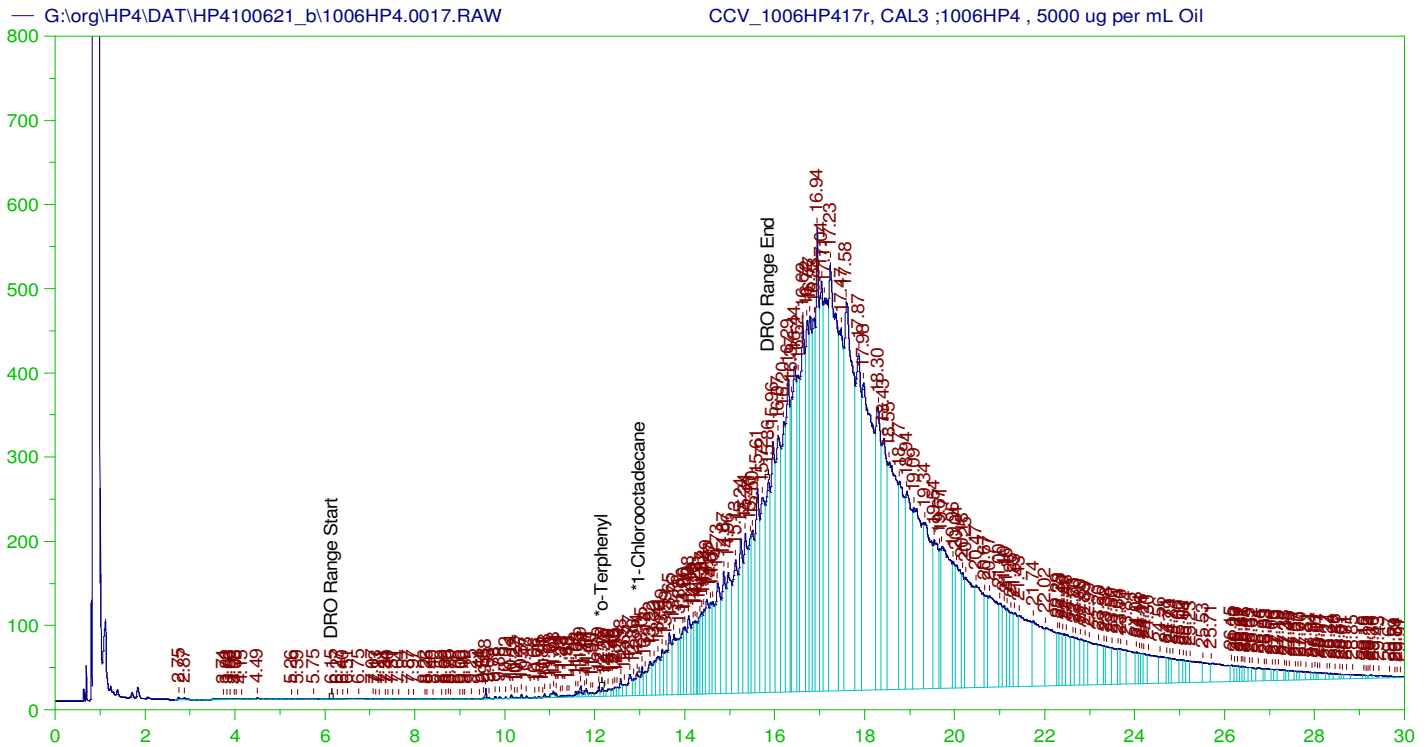
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 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55

Rt range for Diesel Range Organics: 6.35 to 16.12

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.907	200.	.	-
*1-Chlorooctadecane	29.907	200.	.	-

DRO Area:114216.7 DRO Amount: 4.387964
 TEH Area:265335.9 TEH Amount: 10.19364



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0017.RAW
 Date & Time Acquired: 10/7/2021 3:19:06 AM
 Method File: G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56

Rt range for Diesel Range Organics: 6.09 to 15.88

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.165	200.	1.127	.56
*1-Chlorooctadecane	29.907	200.	.	-

DRO Area: 2.051403E+07

DRO Amount: 836.2982

TEH (Oil Range) Area: 1.215776E+08

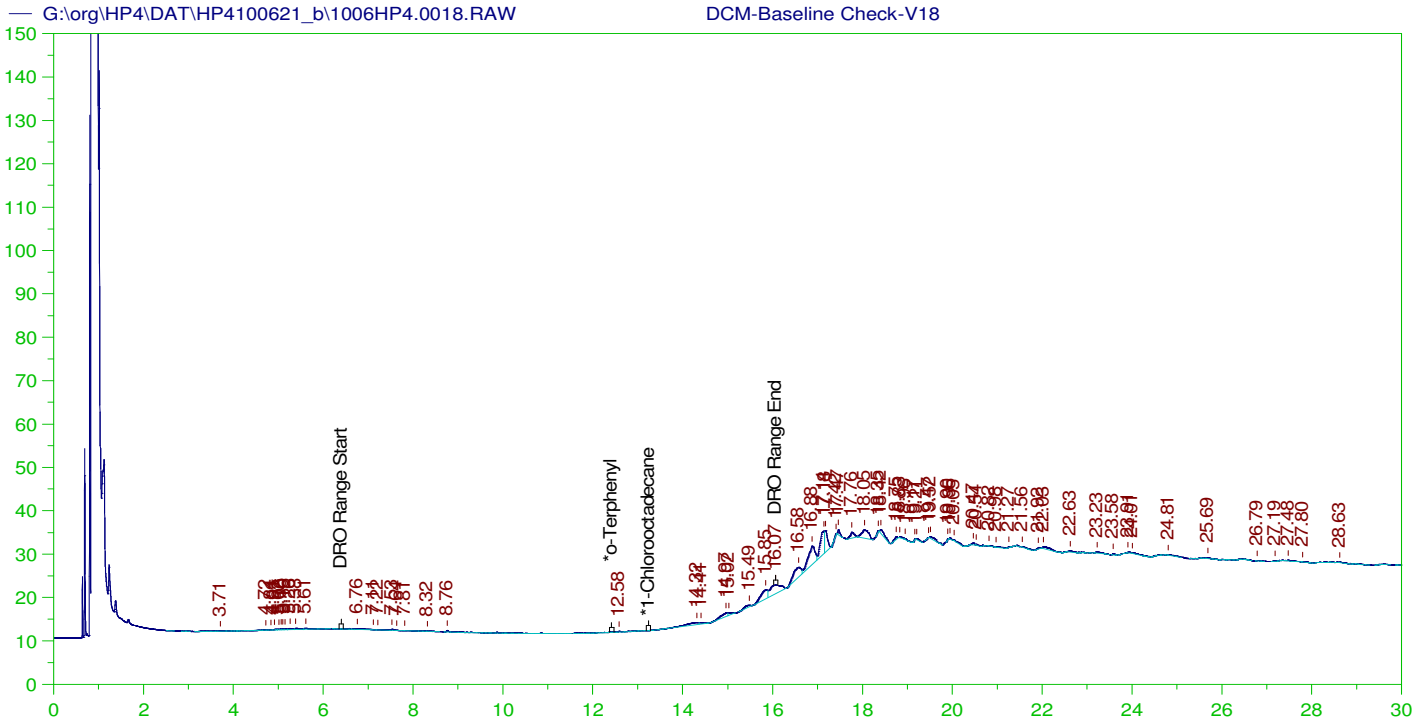
TEH (Oil Range) Amount: 4956.371

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0017.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	5000.	4956.37	99.13	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.165	200.	1.127	.56	85-115
*1-Chlorooctadecane	29.907	200.	.	.	85-115

AMN 10/13/2021



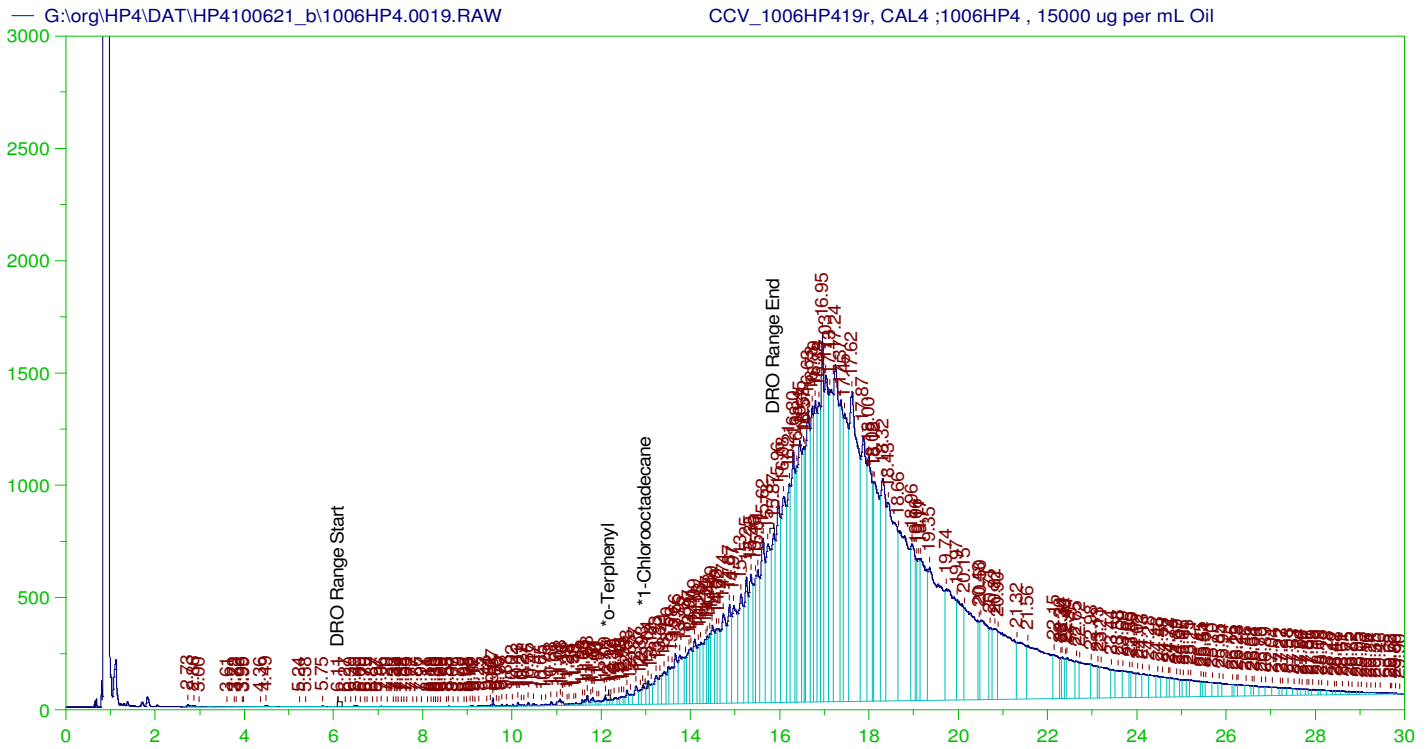
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V18
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 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

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

DRO Area:108588.8 DRO Amount: 4.171752
 TEH Area:364372 TEH Amount: 13.9984



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil
Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0019.RAW
Date & Time Acquired: 10/7/2021 4:50:17 AM
Method File: G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56

Rt range for Diesel Range Organics: 6.09 to 15.88

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	-
*o-Terphenyl	12.166	200.	2.668	1.33	-
*1-Chlorooctadecane	29.898	200.	.	.	-

DRO Area:6.321696E+07

DRO Amount: 2577.175

TEH (Oil Range) Area:3.629964E+08

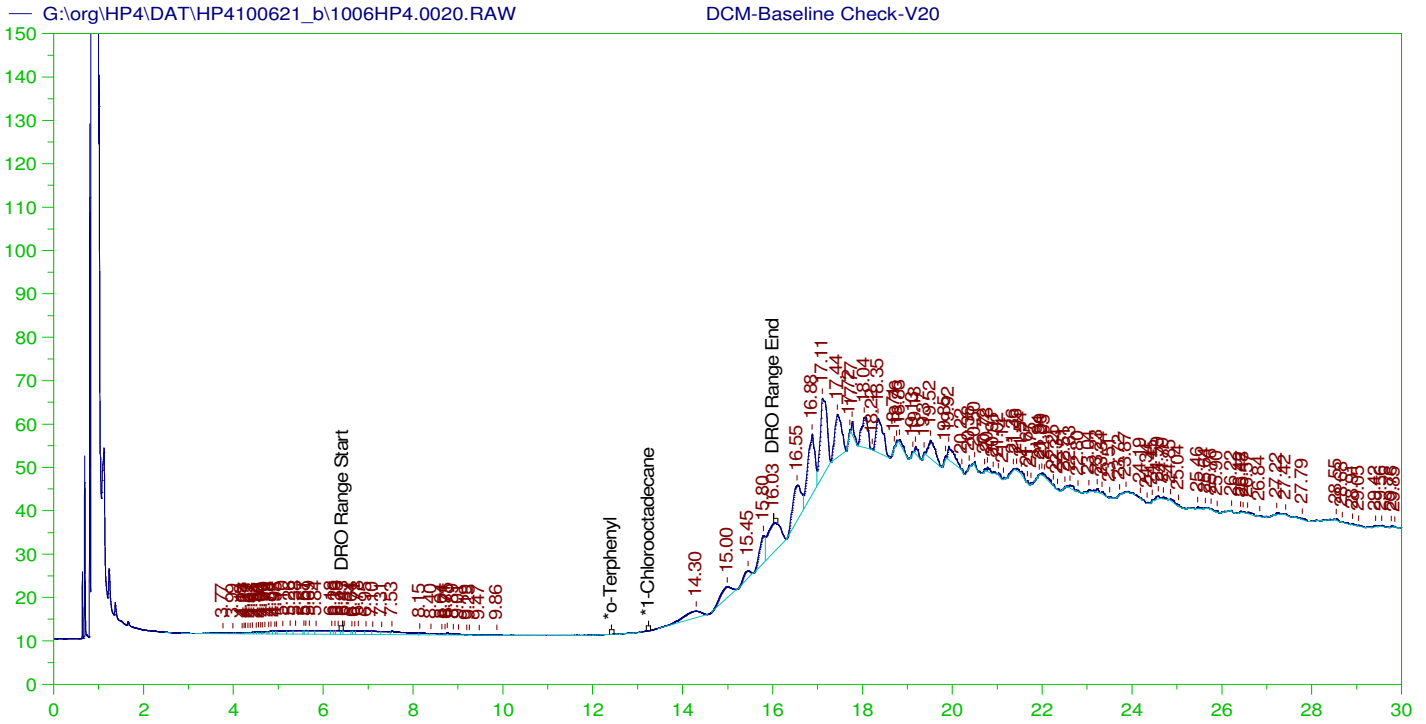
TEH (Oil Range) Amount: 14798.33

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0019.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	5000.	14798.33	295.97	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.166	200.	2.668	1.33	85-115
*1-Chlorooctadecane	29.898	200.	.	.	85-115

AMN 10/13/2021



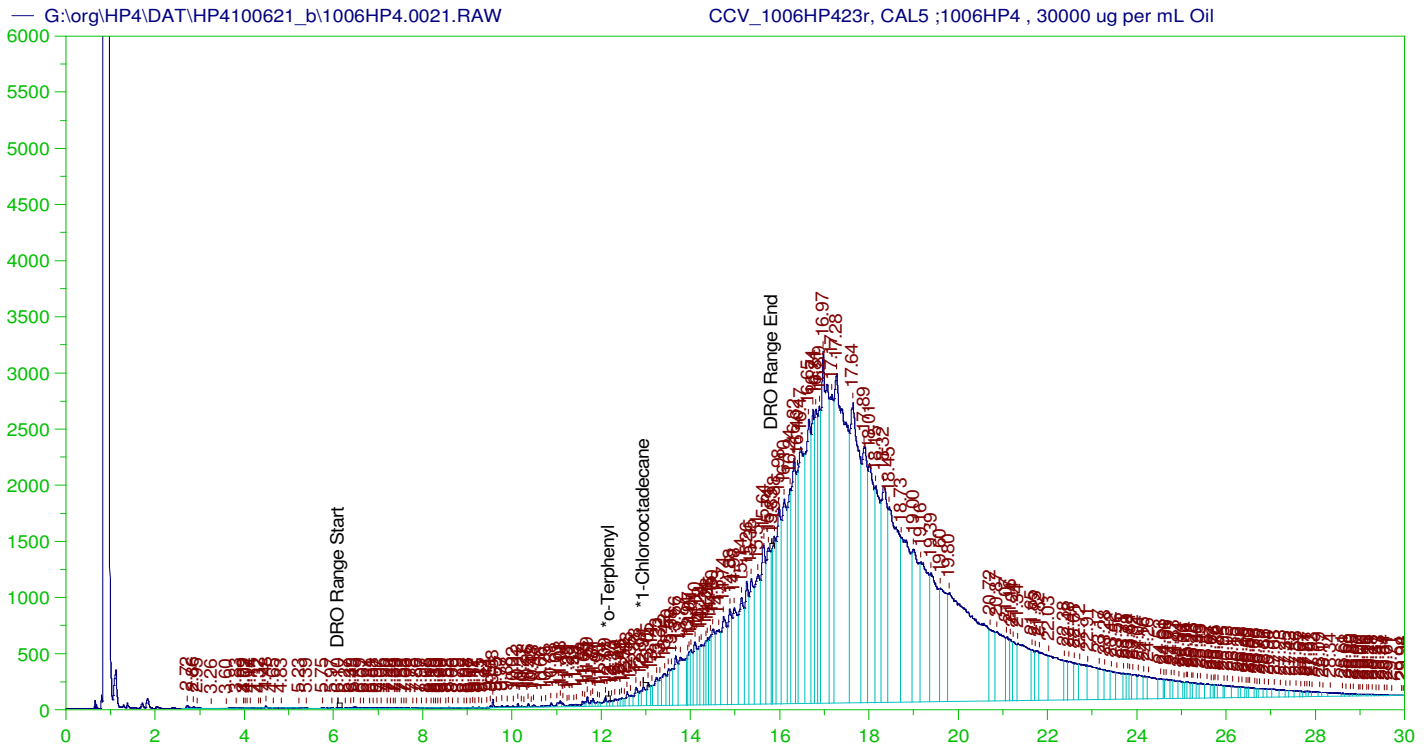
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V20
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

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

DRO Area:396511 DRO Amount: 15.23311
 TEH Area:1438866 TEH Amount: 55.27819



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0021.RAW
 Date & Time Acquired: 10/7/2021 6:21:29 AM
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 Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56
 Rt range for Diesel Range Organics: 6.09 to 15.88

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.17	200.	5.119	2.56	-
*1-Chlorooctadecane	12.944	200.	32.459	16.23	-

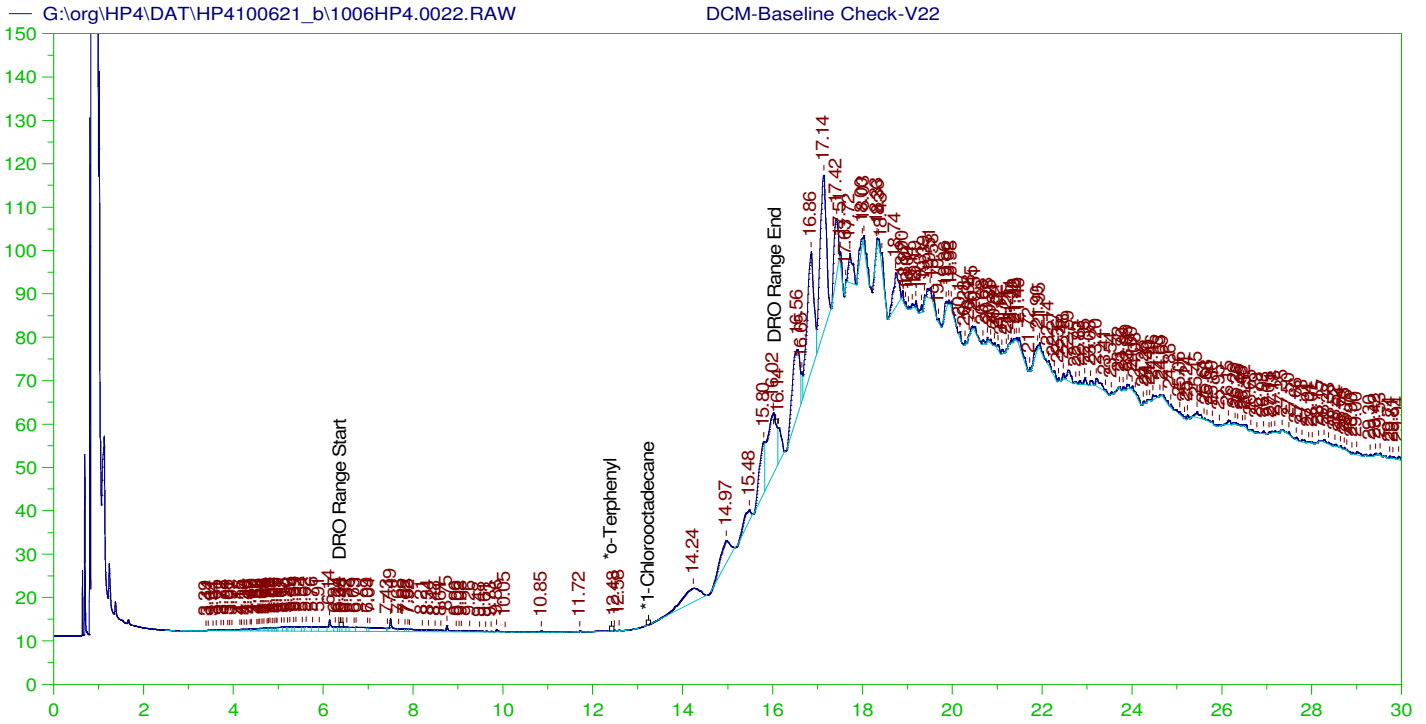
DRO Area: 1.18208E+08 DRO Amount: 4819.003
 TEH (Oil Range) Area: 7.187084E+08 TEH (Oil Range) Amount: 29299.68

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0021.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	5000.	29299.68	585.99	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.17	200.	5.119	2.56	85-115
*1-Chlorooctadecane	12.944	200.	32.459	16.23	85-115

AMN 10/13/2021



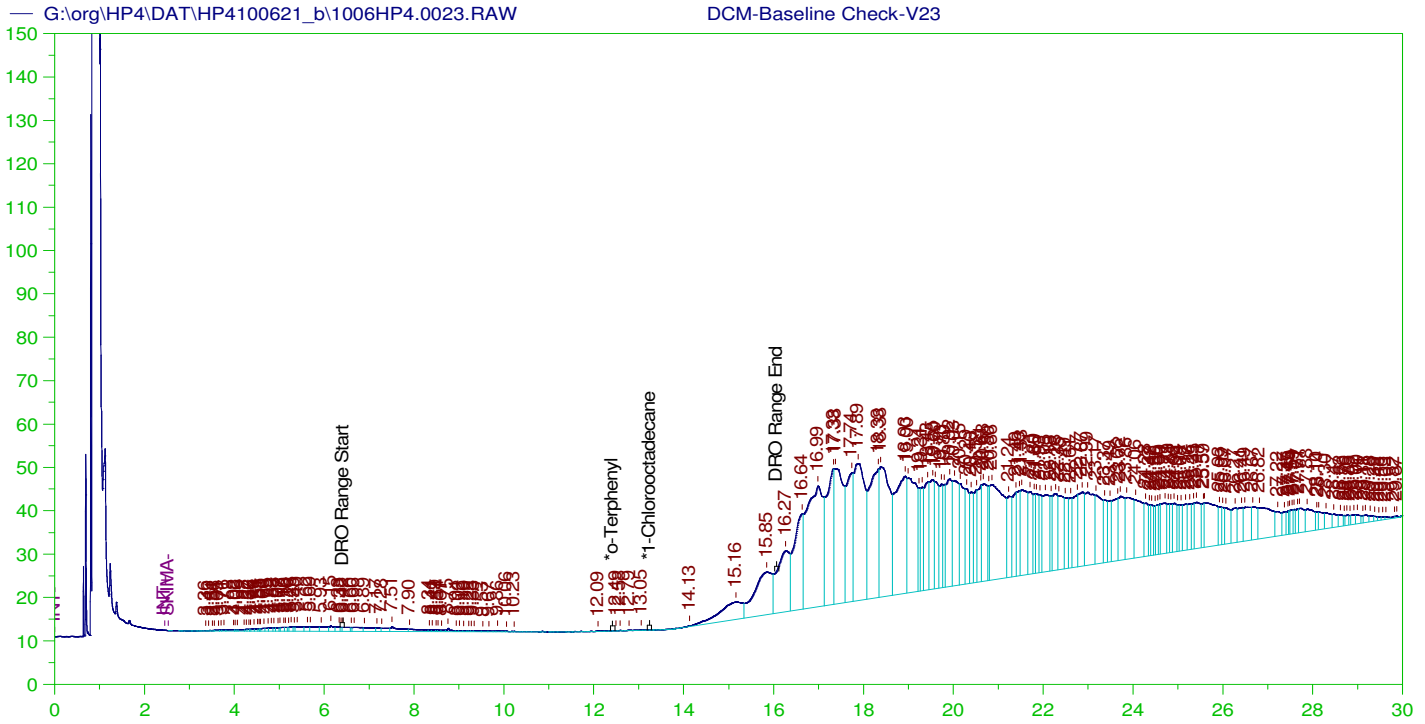
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V22
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 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.94	200.	.	-
*1-Chlorooctadecane	29.94	200.	.	-

DRO Area: 659389.9 DRO Amount: 25.33236
 TEH Area: 2246216 TEH Amount: 86.29485



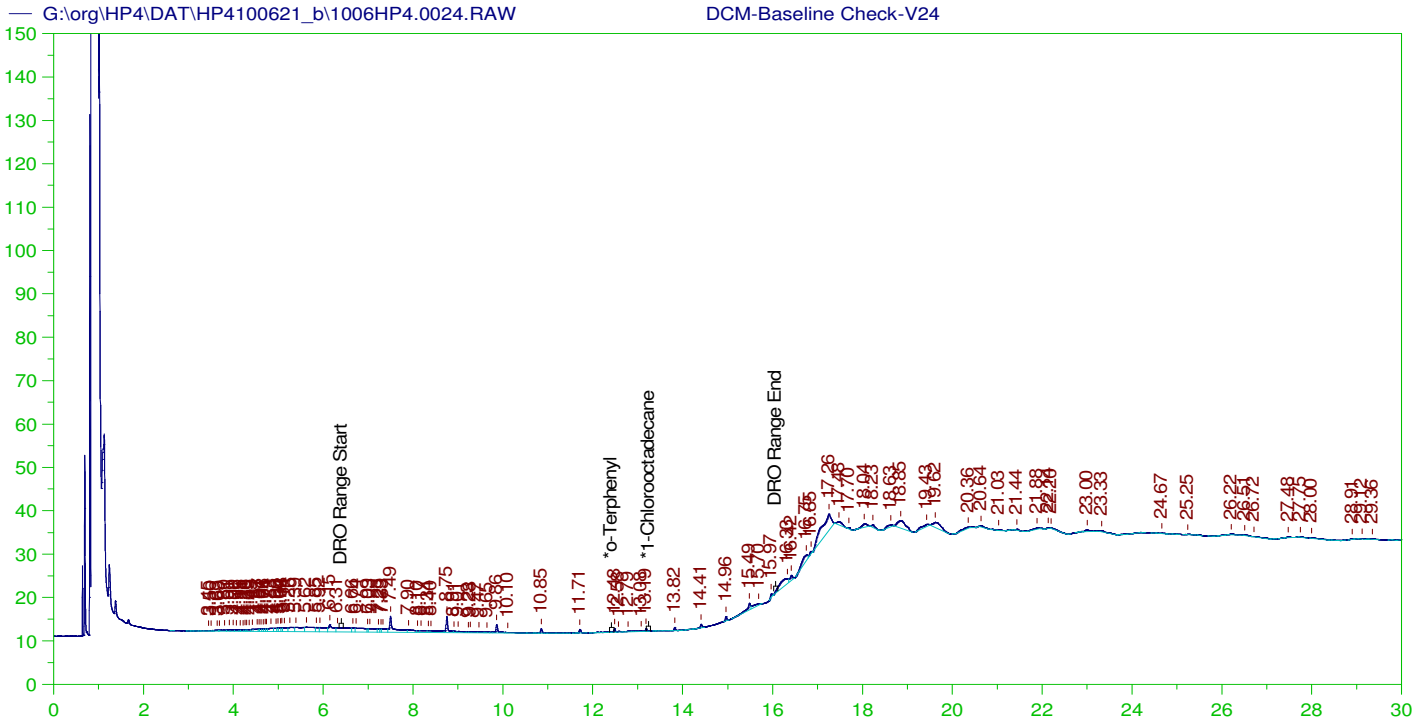
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V23
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0023.RAW
 Date & Time Acquired: 10/7/2021 7:51:25 AM
 Method File: G:\Org\HP4\methods\D3_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

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

DRO Area: 556661.1 DRO Amount: 21.38574
 TEH Area: 1.320998E+07 TEH Amount: 507.4994



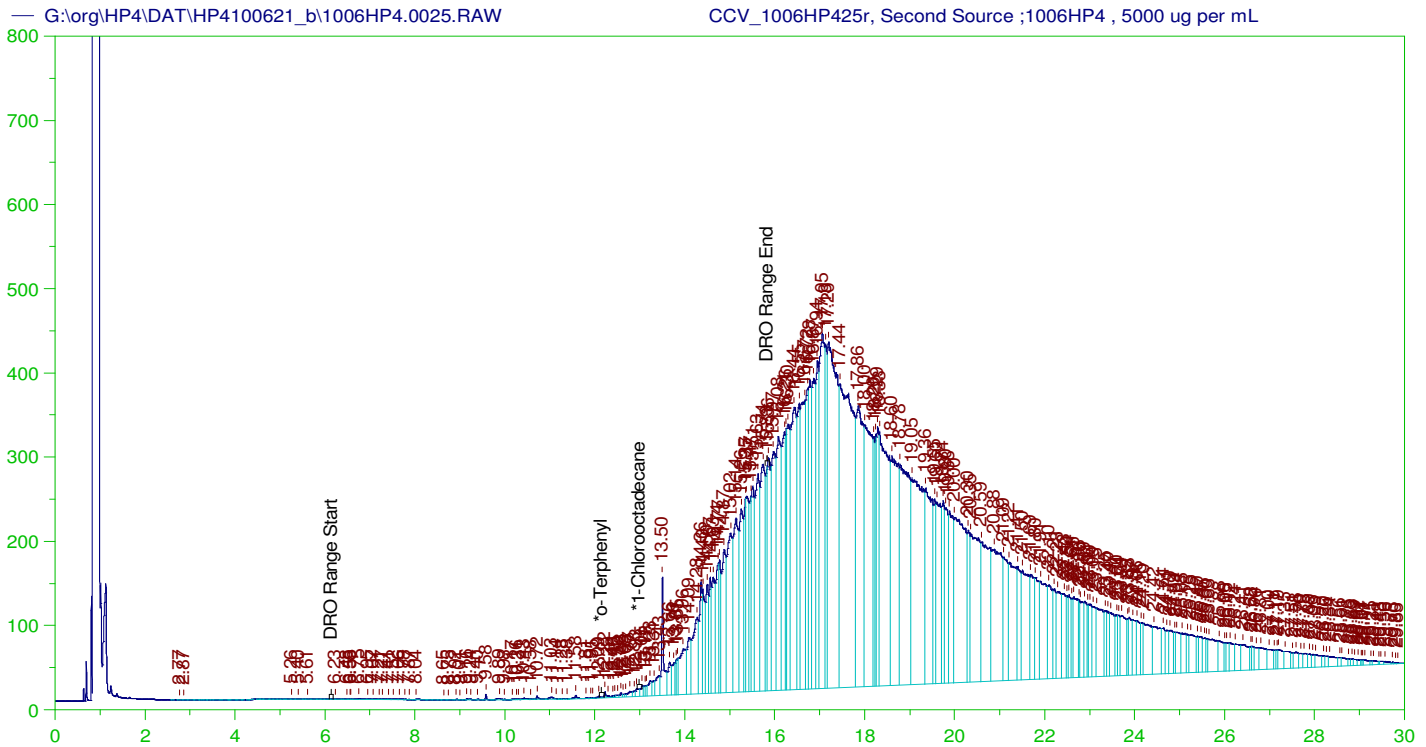
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V24
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0024.RAW
 Date & Time Acquired: 10/7/2021 8:36:35 AM
 Method File: G:\Org\HP4\methods\DR_8015-MX-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO201204MX.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 26029.55
 Rt range for Diesel Range Organics: 6.35 to 16.12

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.993	200.	.	-
*1-Chlorooctadecane	29.993	200.	.	-

DRO Area:143991.1 DRO Amount: 5.531833
 TEH Area:496648.4 TEH Amount: 19.08018



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL
 Raw File: G:\org\HP4\DAT\HP4100621_b\1006HP4.0025.RAW
 Date & Time Acquired: 10/7/2021 9:21:40 AM
 Method File: G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_Oil_210106AA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 24529.56

Rt range for Diesel Range Organics: 6.09 to 15.88

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.852	200.	.	-
*1-Chlorooctadecane	29.852	200.	.	-

DRO Area: 2.19787E+07

DRO Amount: 896.0085

TEH (Oil Range) Area: 1.322226E+08

TEH (Oil Range) Amount: 5390.338

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4100621_b\1006HP4.0025.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	5000.	5390.34	107.81	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	29.852	200.	.	.	85-115
*1-Chlorooctadecane	29.852	200.	.	.	85-115

AMN 10/13/2021

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.11r	CCV_1006HP411r, CSCAN ;1006HP4 , DRO210708A	G:\org\HP4\Methods\CSC211006.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.12r	DCM-Baseline Check-V12	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.13r	CCV_1006HP413r, CAL1 ;1006HP4 , 150 ug per mL Oil (10 uL of Cal4 + 90 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-13-OIL-AA-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Set Baseline Now at 23.18
	G:\org\HP4\DAT\HP4100621_b1006HP4.14r	DCM-Baseline Check-V14	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.15r	CCV_1006HP415r, CAL2 ;1006HP4 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-15-OIL-AA-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Set Baseline Now at 28.22
	G:\org\HP4\DAT\HP4100621_b1006HP4.16r	DCM-Baseline Check-V16	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.17r	CCV_1006HP417r, CAL3 ;1006HP4 , 5000 ug per mL Oil (200 uL of Cal 4 + 400 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.
	G:\org\HP4\DAT\HP4100621_b1006HP4.18r	DCM-Baseline Check-V18	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.19r	CCV_1006HP419r, CAL4 ;1006HP4 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM)(14354)	G:\Org\HP4\methods\DR_8015-19-OIL-AA-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.
	G:\org\HP4\DAT\HP4100621_b1006HP4.20r	DCM-Baseline Check-V20	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.21r	CCV_1006HP423r, CAL5 ;1006HP4 , 30000 ug per mL Oil (600 uL of DRO180918C + 400 uL of DCM)(14354)	G:\Org\HP4\methods\DR_8015-21-OIL-AA-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.
	G:\org\HP4\DAT\HP4100621_b1006HP4.22r	DCM-Baseline Check-V22	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.23r	DCM-Baseline Check-V23	G:\Org\HP4\methods\D3_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.24r	DCM-Baseline Check-V24	G:\Org\HP4\methods\DR_8015-MX-LEXP.met	1	1	1	1	0	No integrations
	G:\org\HP4\DAT\HP4100621_b1006HP4.25r	CCV_1006HP425r, Second Source ;1006HP4 , 5000 ug per mL Oil (100 uL of DRO210902A + 900 uL of DCM)	G:\Org\HP4\methods\DR_8015-17-OIL-AA-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline.

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.01.17 15:08:07 -07:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

02-Nov-21

Run ID GCFID-HP4-B_211101A

Run Start Date: 11/1/2021
Analyst: Ann Nebel
Ical:
Column ID:
Comments: ICAL for SW8015C_DRO211102OA

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

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist						
14818927	CCV_1101HP41	HC-8015-DRO-	CAL1		11/1/2021 8:13:4	1	R369598		0	0							
Analyte		T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl		S	mg/L	0.00195173		0.002	0	0	0.000531	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						
14818928	CCV_1101HP41	HC-8015-DRO-	CAL2		11/1/2021 9:04:4	1	R369598		0	0							
Analyte		T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl		S	mg/L	0.04894254		0.05	0	0	0.000531	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						
14818929	CCV_1101HP41	HC-8015-DRO-	CAL3		11/1/2021 9:55:1	1	R369598		0	0							
Analyte		T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl		S	mg/L	0.2012884		0.2	0	0	0.000531	0.002	0	101%	80	120	0%		

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14818930	CCV_1101HP41	HC-8015-DRO-	CAL4		11/1/2021 10:45:	1	R369598		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.5057291		0.5	0	0	0.000531	0.002	0	101%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14818931	CCV_1101HP41	HC-8015-DRO-	CAL5		11/1/2021 11:36:	1	R369598		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		1.027384		1	0	0	0.000531	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					
14818932	CCV_1101HP41	HC-8015-DRO-	CAL1		11/2/2021 1:16:4	1	R369598		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		0.1539031		0.15	0	0	0.0782	0.3	50	103%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14818933	CCV_1101HP41	HC-8015-DRO-	CAL2		11/2/2021 2:07:1	1	R369598		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		3.723079		3.75	0	0	0.0782	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					
14818934	CCV_1101HP41	HC-8015-DRO-	CAL3		11/2/2021 2:57:2	1	R369598		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		14.98193		15	0	0	0.0782	0.3	50	100%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14818935	CCV_1101HP41	HC-8015-DRO-	CAL4		11/2/2021 3:47:4	1	R369598		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		36.3038		37.5	0	0	0.0782	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					
14818936	CCV_1101HP42	HC-8015-DRO-	CAL5		11/2/2021 4:38:0	1	R369598		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Total Extractable Hydrocarbons	A	mg/L		50.71311		50	0	0	0.0782	0.3	50	101%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14818937	CCV_1101HP42	HC-8015-DRO-	ICV		11/2/2021 6:18:3	1	R369598		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		14.96337		15	0	0	0.0782	0.3	50	100%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	\\org\HP4\DAT\HP4110121_b\1101HP4.07r	DCM-Baseline Check-V07	G:\Org\HP4\methods\DR_8015-OA-LEXP.met					
	\\org\HP4\DAT\HP4110121_b\1101HP4.08r	CCV_1101HP408r, DRO ;1101HP4 , DRO211025A	G:\Org\HP4\methods\DC_8015-OA-L0.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.09r	DCM-Baseline Check-V09	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.10r	CCV_1101HP410r, CAL1 ;1101HP4 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.11r	CCV_1101HP411r, CAL2 ;1101HP4 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.12r	CCV_1101HP412r, CAL3 ;1101HP4 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.13r	CCV_1101HP413r, CAL4 ;1101HP4 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.14r	CCV_1101HP414r, CAL5 ;1101HP4 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.15r	DCM-Baseline Check-V15	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.16r	CCV_1101HP416r, CAL1 ;1101HP4 , 150 ug per mL Diesel (10 uL of Cal3 + 990 uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.17r	CCV_1101HP417r, CAL2 ;1101HP4 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.18r	CCV_1101HP418r, CAL3 ;1101HP4 , 15000 ug per mL Diesel (300 uL of DRO211012A + 700 uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.19r	CCV_1101HP419r, CAL4 ;1101HP4 , 37500ug per mL Diesel (750 uL of DRO211012A + 250 uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.20r	CCV_1101HP420r, CAL5 ;1101HP4 , 50000 ug per mL Diesel (200 uL of DRO211012A)	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.21r	DCM-Baseline Check-V21	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0
	\\org\HP4\DAT\HP4110121_b\1101HP4.22r	CCV_1101HP422r, Second Source ;1101HP4 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0

File Name: G:\Org\HP4\Cals\SW8015C_DRO211102OA.CAL

Version: 1

Creator: AMN

Description: 8015C-DRO. New ICal Per 1102HP4 (2021)-2 uL Inj.; COD added using OTP RFs

Reason for change:

External standard calibration

Standard injection volume: 1

Standard sample weight: 1

Area reject threshold: 500

Reference peak area reject threshold: 500

Amount units: nanograms

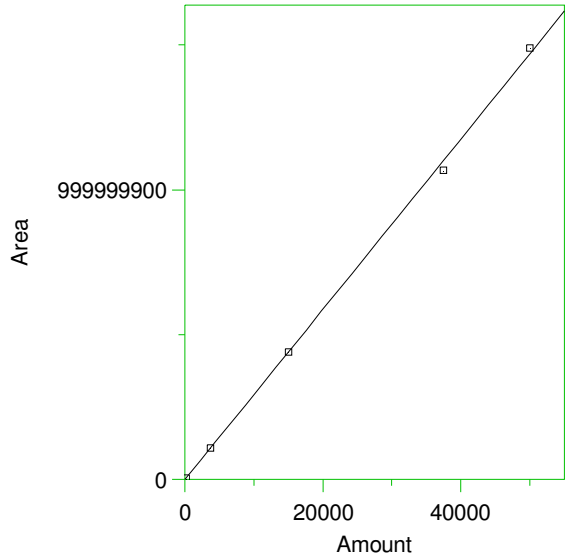
No default component

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

No calibration update report

All levels are normal data points.

1 DRO Range Start



Expected retention time: 6.79 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

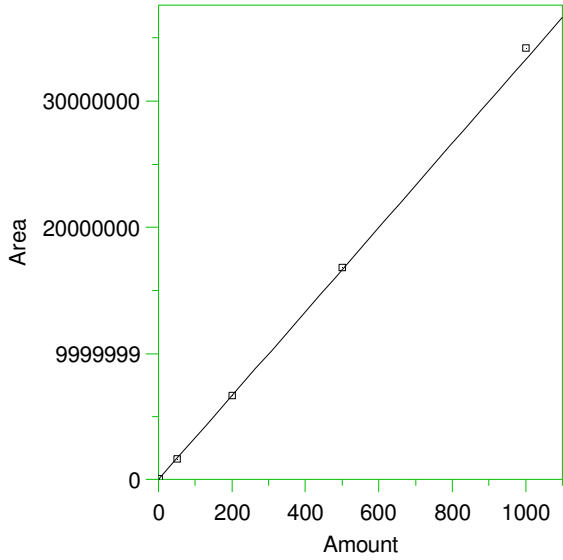
Single peak quantification by area

$Y = 29373.28 X + 0$

Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9989712
 Average error: 1.611%
 Average CF: 29373.28
 RSD: 2.208%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	150	4520637	30137.58	2.602	Manual	11/2/2021 7:52:13 AM
2	3750	1.09359E+08	29162.4	-0.718	Manual	11/2/2021 7:52:33 AM
3	15000	4.400683E+08	29337.89	-0.120	Manual	11/2/2021 7:52:42 AM
4	37500	1.066362E+09	28436.32	-3.190	Manual	11/2/2021 7:52:54 AM
5	50000	1.48961E+09	29792.2	1.426	Manual	11/2/2021 7:53:06 AM

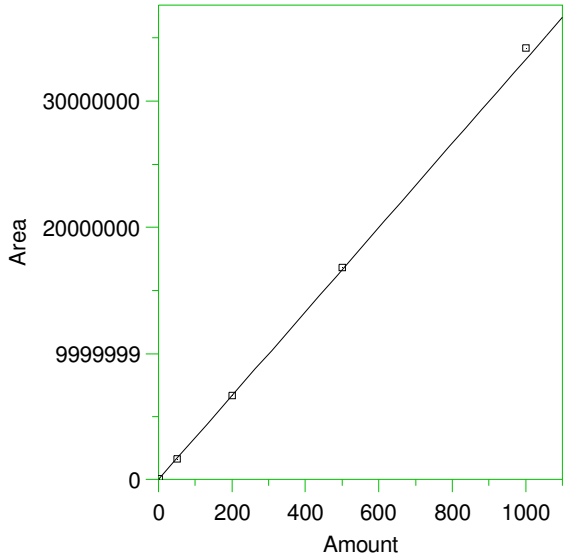
2 *o-Terphenyl



Expected retention time: 12.87 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 = 33319.7 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.998904
 Average error: 1.811%
 Average CF: 33319.7
 RSD: 2.209%

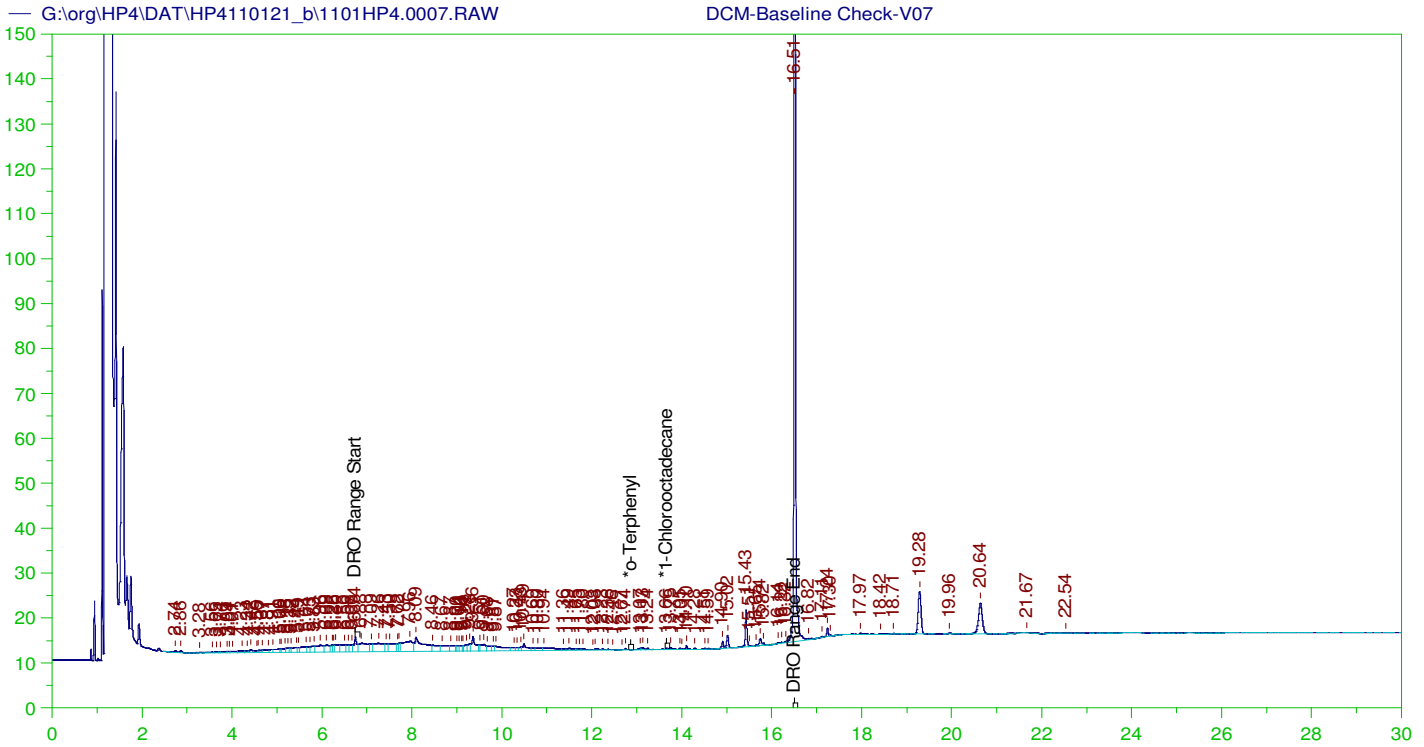
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	65030.99	32515.49	-2.414	G:\Org\HP4\DAT\HP4110121_b\1101HP4.0010.BND	11/2/2021 7:51:41 AM
2	50	1630751	32615.02	-2.115	G:\Org\HP4\DAT\HP4110121_b\1101HP4.0011.BND	11/2/2021 7:51:35 AM
3	200	6706871	33534.36	0.644	G:\Org\HP4\DAT\HP4110121_b\1101HP4.0012.BND	11/2/2021 7:51:30 AM
4	500	1.685074E+07	33701.48	1.146	G:\Org\HP4\DAT\HP4110121_b\1101HP4.0013.BND	11/2/2021 7:50:16 AM
5	1000	3.423214E+07	34232.14	2.738	G:\Org\HP4\DAT\HP4110121_b\1101HP4.0014.BND	11/2/2021 7:50:10 AM

3 *1-Chlorooctadecane



Expected retention time: 13.68 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 = 33319.7 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.998904
 Average error: 1.811%
 Average CF: 33319.7
 RSD: 2.209%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	65030.99	32515.49	-2.414	Manual	11/2/2021 7:51:46 AM
2	50	1630751	32615.02	-2.115	Manual	11/2/2021 7:51:47 AM
3	200	6706871	33534.36	0.644	Manual	11/2/2021 7:51:49 AM
4	500	1.685074E+07	33701.48	1.146	Manual	11/2/2021 7:51:51 AM
5	1000	3.423214E+07	34232.14	2.738	Manual	11/2/2021 7:51:53 AM



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V07
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0007.RAW
 Date & Time Acquired: 11/1/2021 5:37:56 PM
 Method File: G:\Org\HP4\methods\DR_8015-OA-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

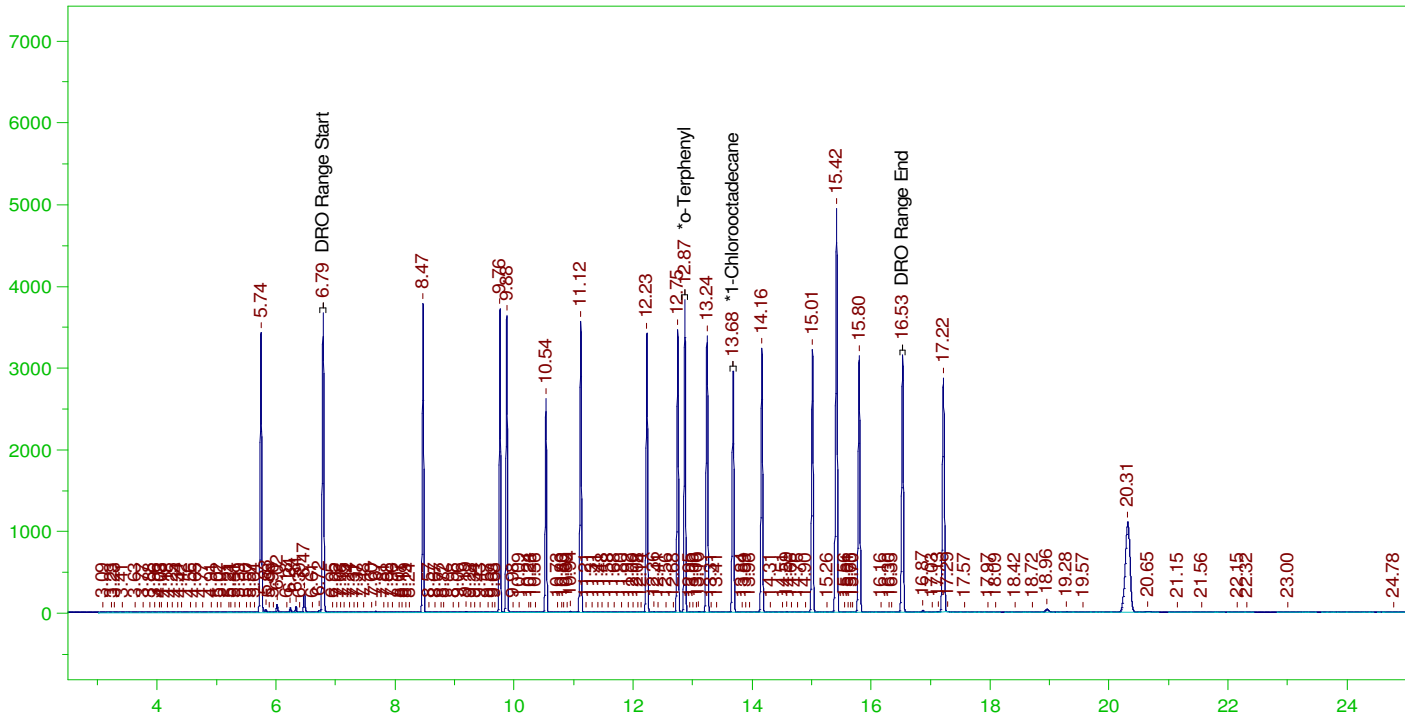
Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.966	200.	.	-
*1-Chlorooctadecane	13.659	200.	.028	.01

DRO Area:1037666 DRO Amount: 35.32688
 TEH Area:1315488 TEH Amount: 44.78518

G:\org\HP4\DAT\HP4110121_b\1101HP4.0008.RAW

CCV_1101HP408r, DRO ;1101HP4 , DRO211025A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP408r, DRO ;1101HP4 , DRO211025A
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0008.RAW
 Date & Time Acquired: 11/1/2021 6:29:58 PM
 Method File: G:\Org\HP4\methods\DC_8015-OA-L0.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

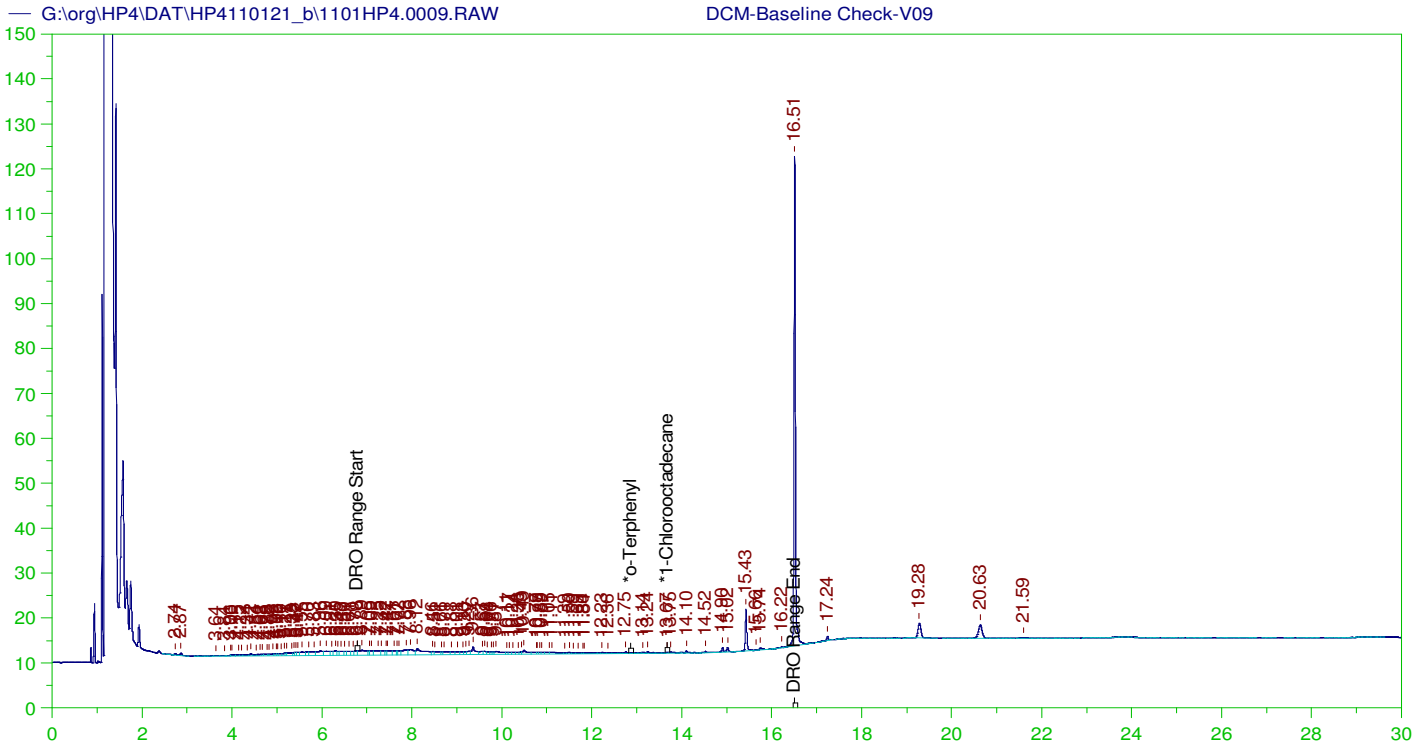
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.871	200.	197.197	98.6
*1-Chlorooctadecane	13.68	200.	162.692	81.35

DRO Area: 8.91221E+07 DRO Amount: 3034.122
 TEH Area: 1.09099E+08 TEH Amount: 3714.228

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0008.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	3714.23	24.76	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.871	200.	197.197	98.6	85-115
*1-Chlorooctadecane	13.68	200.	162.692	81.35	85-115



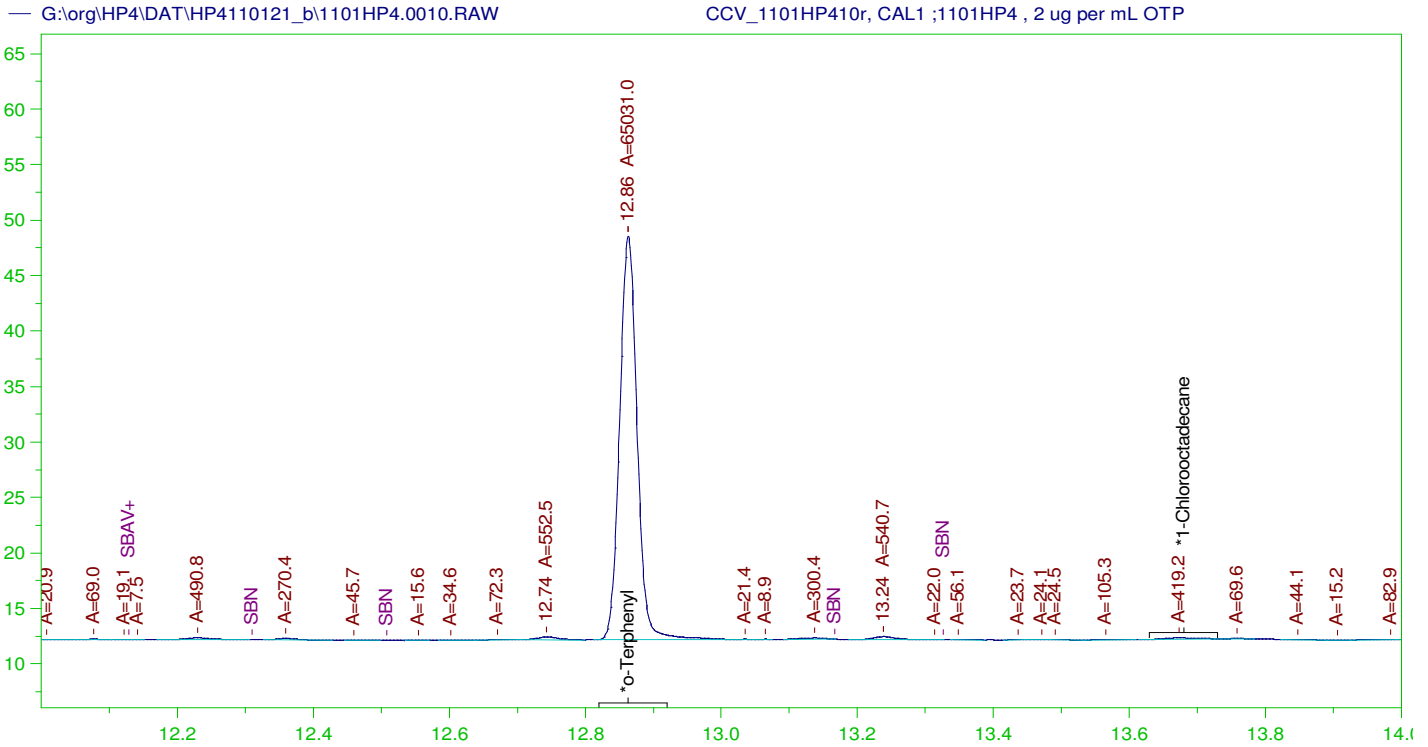
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V09
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0009.RAW
 Date & Time Acquired: 11/1/2021 7:21:52 PM
 Method File: G:\Org\HP4\methods\DR_8015-OA-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.549	200.	.	-
*1-Chlorooctadecane	13.667	200.	.027	.01 -

DRO Area: 494658.3 DRO Amount: 16.84042
 TEH Area: 640048.8 TEH Amount: 21.79017



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP410r, CAL1 ;1101HP4 , 2 ug per mL OTP
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0010.RAW
 Date & Time Acquired: 11/1/2021 8:13:42 PM
 Method File: G:\Org\HP4\methods\DS_8015-OA-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

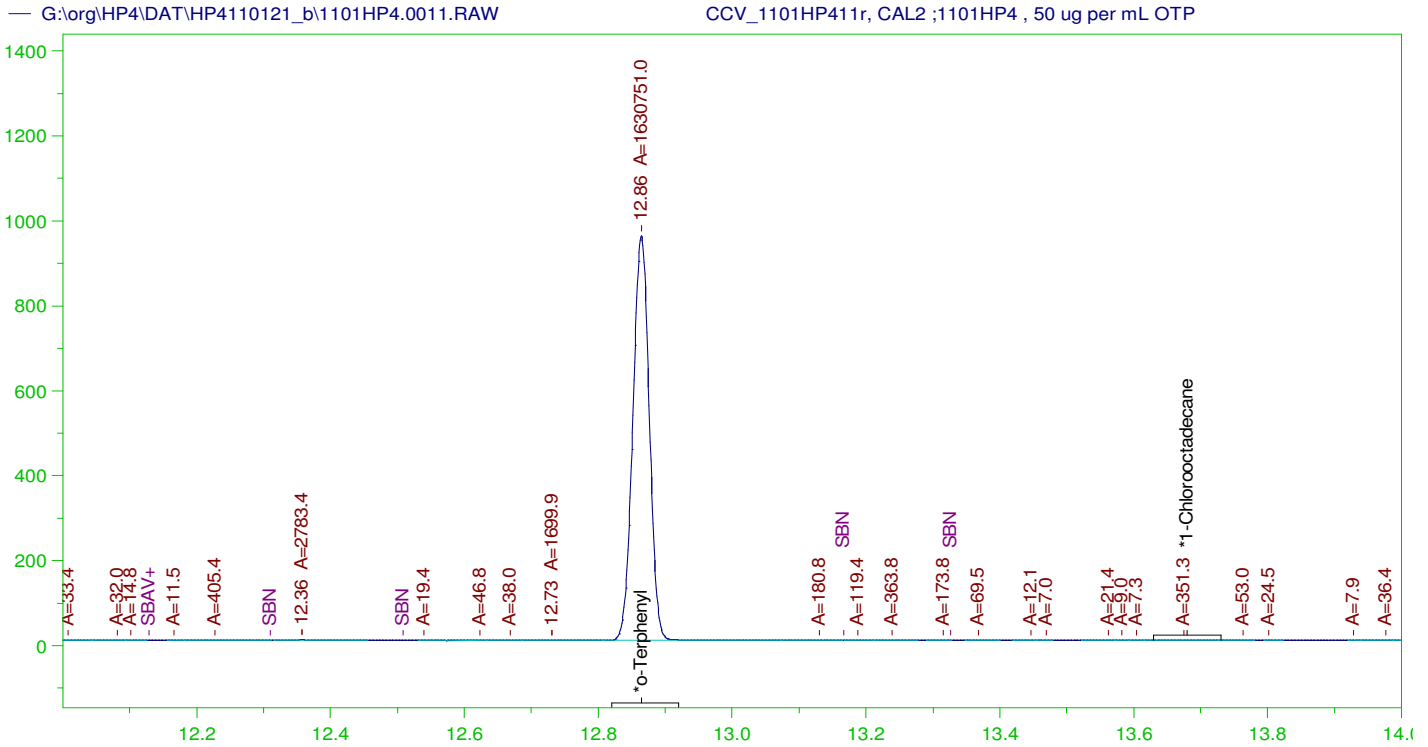
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.863	200.	1.952	.98
*1-Chlorooctadecane	29.971	200.	.	.

DRO Area:246716.6 DRO Amount: 8.399357
 TEH Area:346478.1 TEH Amount: 11.79569

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0010.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.863	200.	1.952	.98	85-115
*1-Chlorooctadecane	29.971	200.	.	.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP411r, CAL2 ;1101HP4 , 50 ug per mL OTP
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0011.RAW
 Date & Time Acquired: 11/1/2021 9:04:46 PM
 Method File: G:\Org\HP4\methods\DS_8015-OA-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

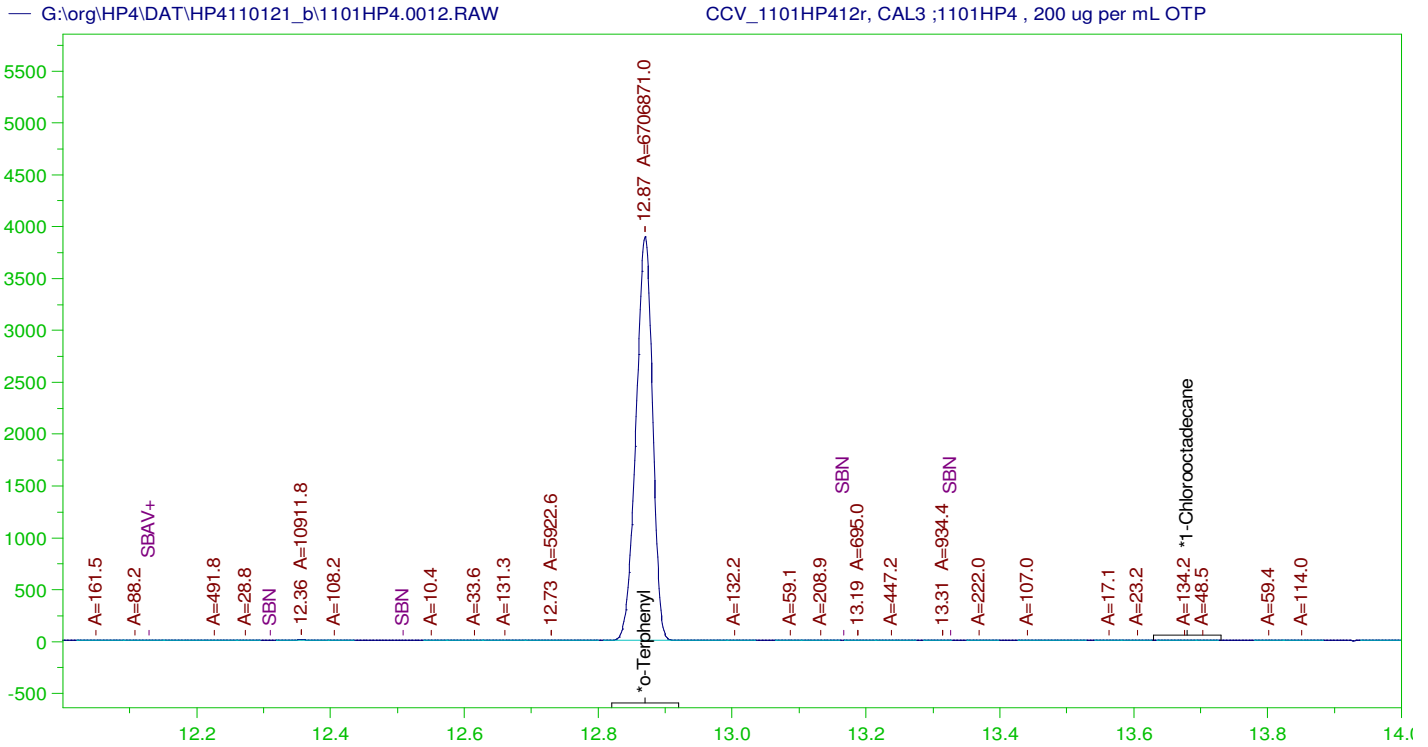
Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.864	200.	48.943	24.47
*1-Chlorooctadecane	29.962	200.	.	.

DRO Area:198520.5 DRO Amount: 6.75854
 TEH Area:236761.3 TEH Amount: 8.060432

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0011.RAW
 COMPOUND ACTUAL (NG) MEASURED (NG) %RECOVERY LIMITS
 TOTAL DRO 15000. . . 85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.864	200.	48.943	24.47	85-115
*1-Chlorooctadecane	29.962	200.	.	.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP412r, CAL3 ;1101HP4 , 200 ug per mL OTP
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0012.RAW
 Date & Time Acquired: 11/1/2021 9:55:15 PM
 Method File: G:\Org\HP4\methods\DS_8015-OA-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.87	200.	201.289	100.64
*1-Chlorooctadecane	29.944	200.	.	-

DRO Area:204842.1 DRO Amount: 6.973756
 TEH Area:260037.3 TEH Amount: 8.852851

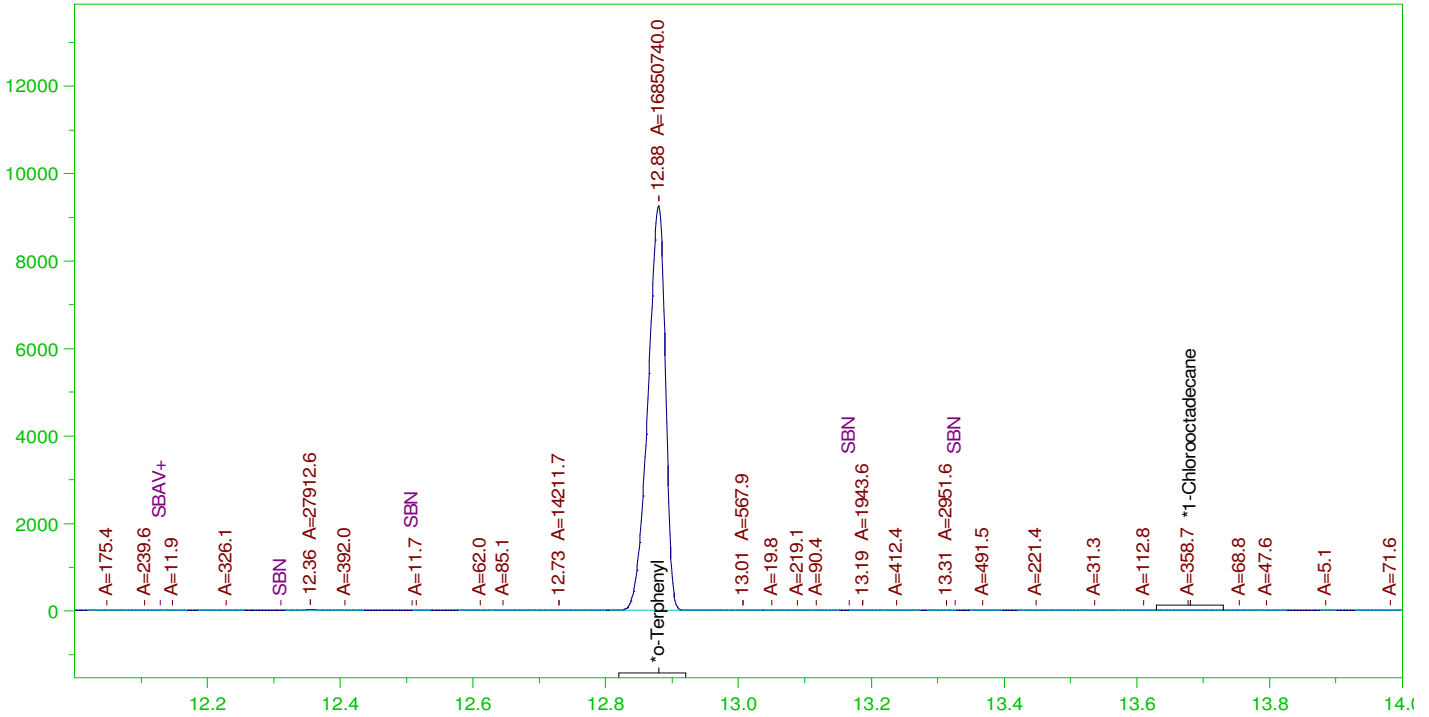
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0012.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.87	200.	201.289	100.64	85-115
*1-Chlorooctadecane	29.944	200.	.	.	85-115

G:\org\HP4\DAT\HP4110121_b\1101HP4.0013.RAW

CCV_1101HP413r, CAL4 ;1101HP4 , 500 ug per mL OTP



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP413r, CAL4 ;1101HP4 , 500 ug per mL OTP
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0013.RAW
 Date & Time Acquired: 11/1/2021 10:45:33 PM
 Method File: G:\Org\HP4\methods\DS_8015-OA-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

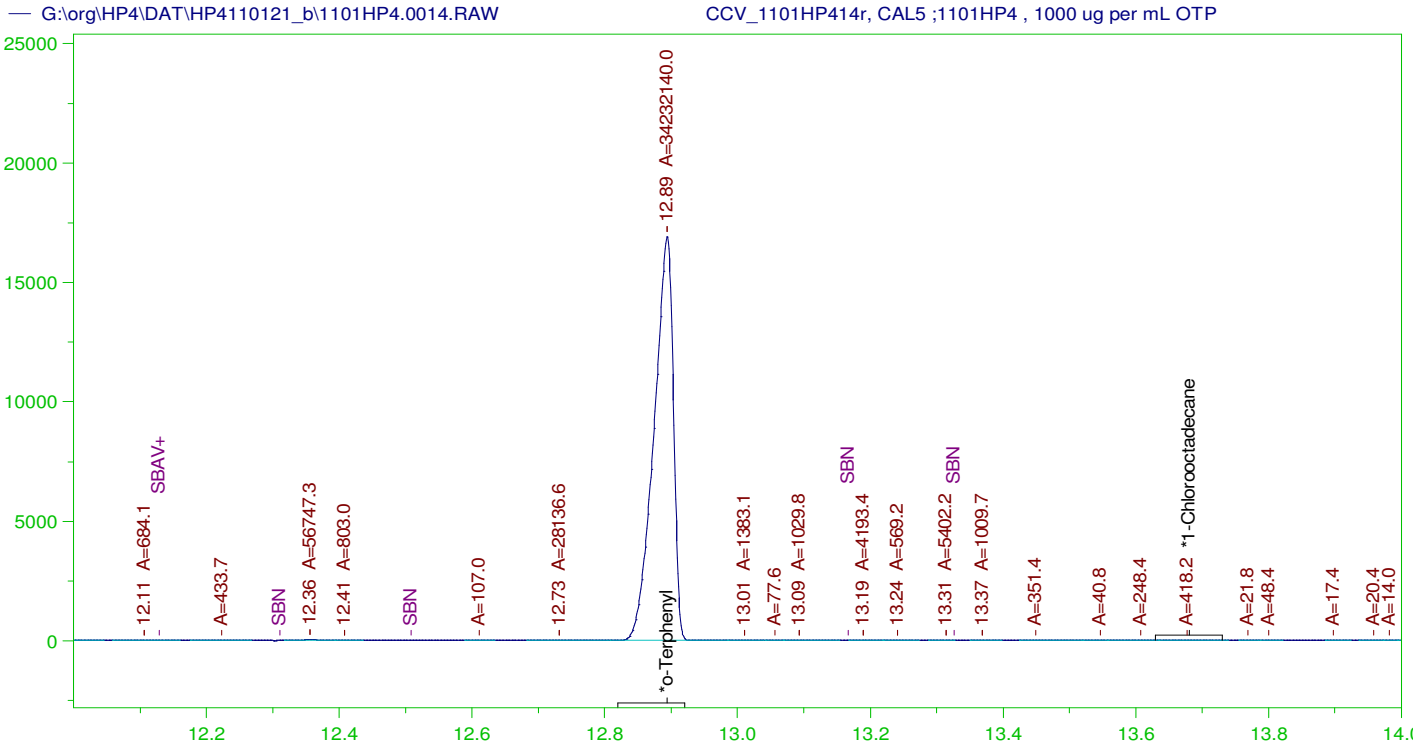
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.879	200.	505.729	252.86
*1-Chlorooctadecane	29.986	200.	.	-

DRO Area:248934.2 DRO Amount: 8.474853
 TEH Area:316561.3 TEH Amount: 10.77719

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0013.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.879	200.	505.729	252.86	85-115
*1-Chlorooctadecane	29.986	200.	.	.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP414r, CAL5 ;1101HP4 , 1000 ug per mL OTP
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0014.RAW
 Date & Time Acquired: 11/1/2021 11:36:02 PM
 Method File: G:\Org\HP4\methods\DS_8015-OA-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

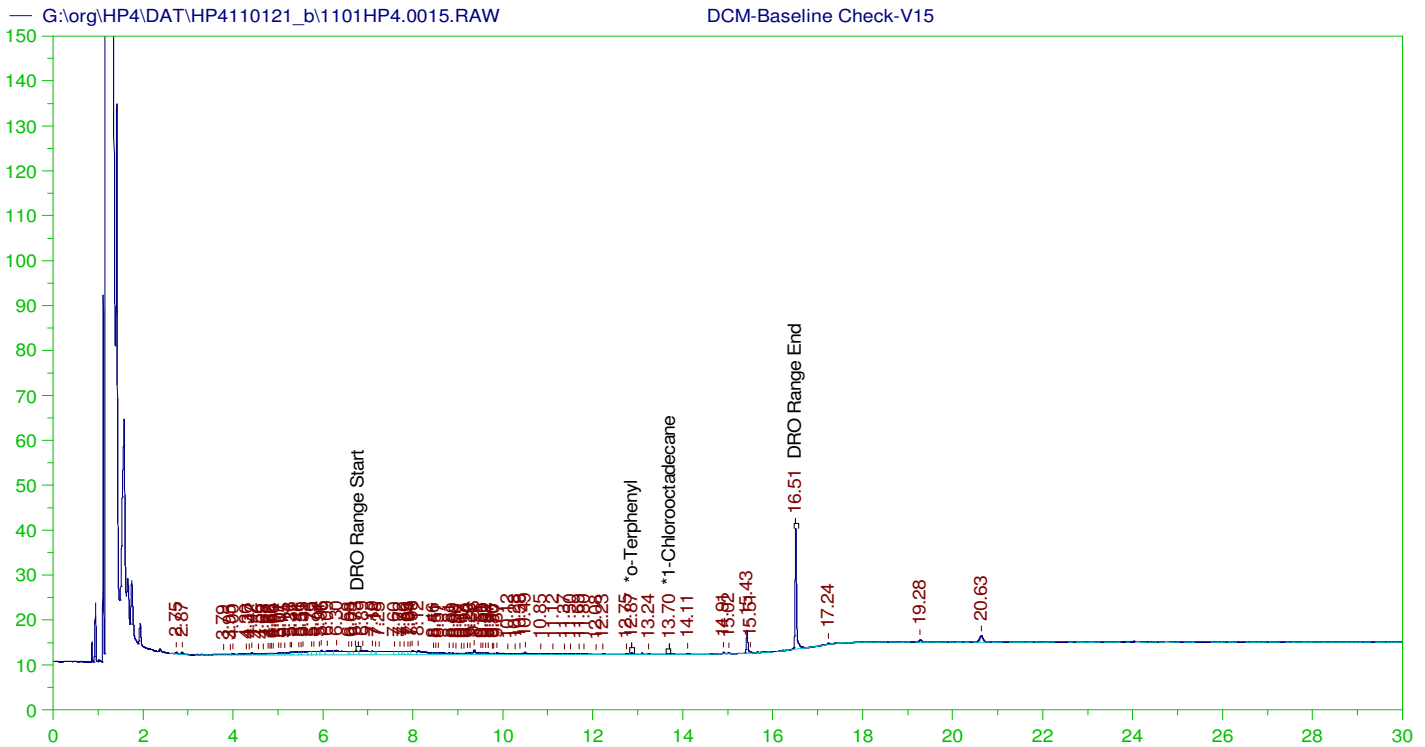
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.894	200.	1027.384	513.69
*1-Chlorooctadecane	29.945	200.	.	-

DRO Area:283897.7 DRO Amount: 9.66517
 TEH Area:329575.5 TEH Amount: 11.22025

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0014.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.894	200.	1027.384	513.69	85-115
*1-Chlorooctadecane	29.945	200.	.	.	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V15
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0015.RAW
 Date & Time Acquired: 11/2/2021 12:26:19 AM
 Method File: G:\Org\HP4\methods\DR_8015-OA-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

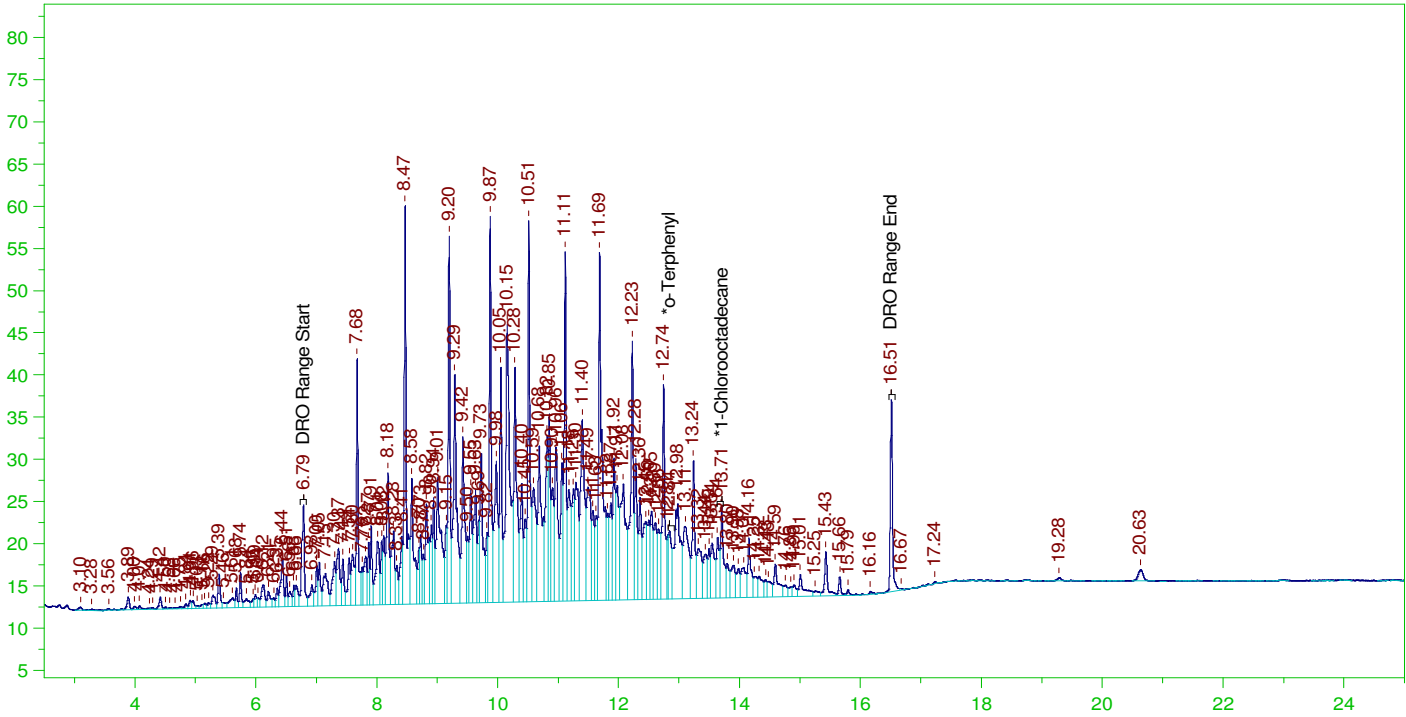
Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.866	200.	.046	.02	-
*1-Chlorooctadecane	13.702	200.	.016	.01	-

DRO Area:216198.9 DRO Amount: 7.360394
 TEH Area:333132.8 TEH Amount: 11.34136

G:\org\HP4\DAT\HP4110121_b\1101HP4.0016.RAW

CCV_1101HP416r, CAL1 ;1101HP4 , 150 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP416r, CAL1 ;1101HP4 , 150 ug per mL Diesel
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0016.RAW
 Date & Time Acquired: 11/2/2021 1:16:49 AM
 Method File: G:\Org\HP4\Methods\DC_8015-OA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.841	200.	.842	.42	-
*1-Chlorooctadecane	13.706	200.	1.092	.55	-

DRO Area:4341542 DRO Amount: 147.8058
 TEH Area:4520637 TEH Amount: 153.903

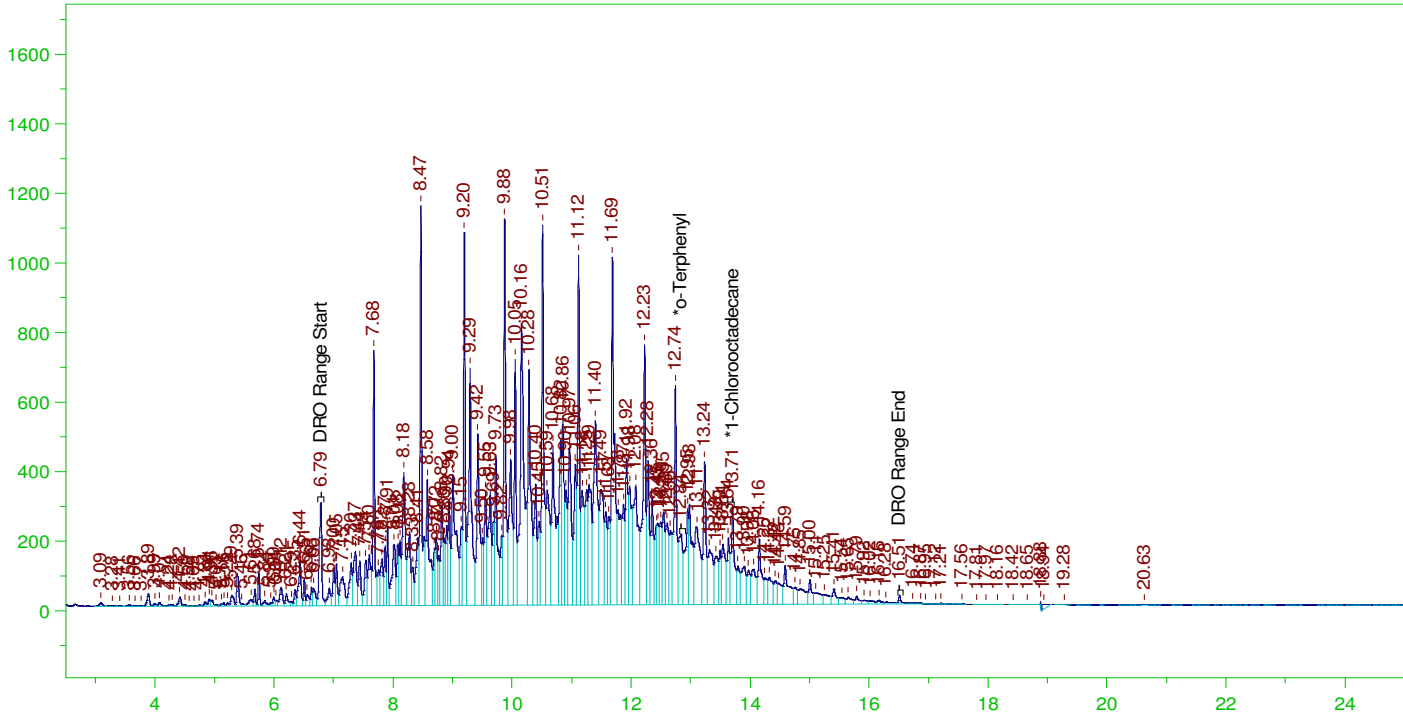
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0016.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	153.9	1.03	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.841	200.	.842	.42	85-115
*1-Chlorooctadecane	13.706	200.	1.092	.55	85-115

G:\org\HP4\DAT\HP4110121_b\1101HP4.0017.RAW

CCV_1101HP417r, CAL2 ;1101HP4 , 3750 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP417r, CAL2 ;1101HP4 , 3750 ug per mL Diesel
Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0017.RAW
Date & Time Acquired: 11/2/2021 2:07:13 AM
Method File: G:\Org\HP4\Methods\DC_8015-OA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.837	200.	28.641	14.32	-
*1-Chlorooctadecane	13.705	200.	33.114	16.56	-

DRO Area:1.065299E+08 DRO Amount: 3626.763
TEH Area:1.09359E+08 TEH Amount: 3723.079

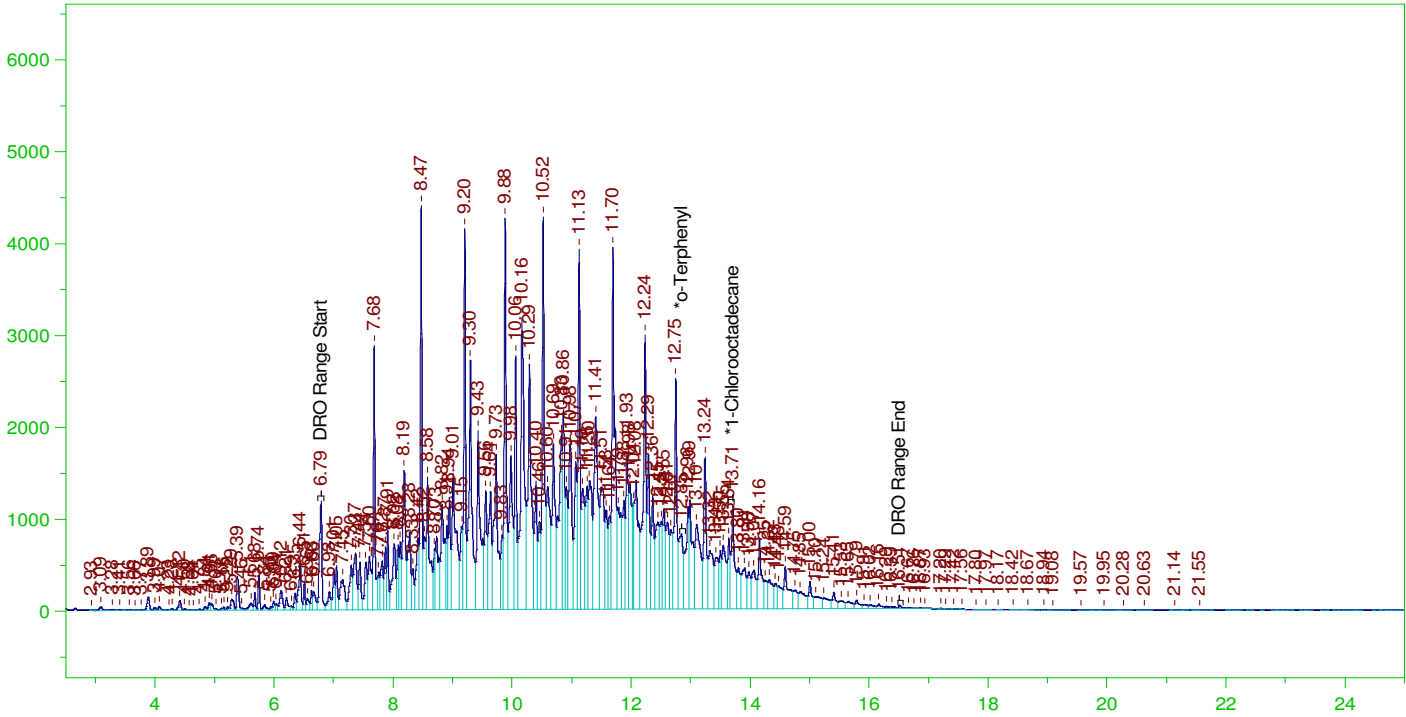
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0017.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	3723.08	24.82	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.837	200.	28.641	14.32	85-115
*1-Chlorooctadecane	13.705	200.	33.114	16.56	85-115

G:\org\HP4\DAT\HP4110121_b\1101HP4.0018.RAW

CCV_1101HP418r, CAL3 ;1101HP4 , 15000 ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP418r, CAL3 ;1101HP4 , 15000 ug per mL Diesel
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0018.RAW
 Date & Time Acquired: 11/2/2021 2:57:28 AM
 Method File: G:\Org\HP4\Methods\DC_8015-OA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.846	200.	119.117	59.56	-
*1-Chlorooctadecane	13.709	200.	132.401	66.2	-

DRO Area: 4.291878E+08 DRO Amount: 14611.51
 TEH Area: 4.400683E+08 TEH Amount: 14981.93

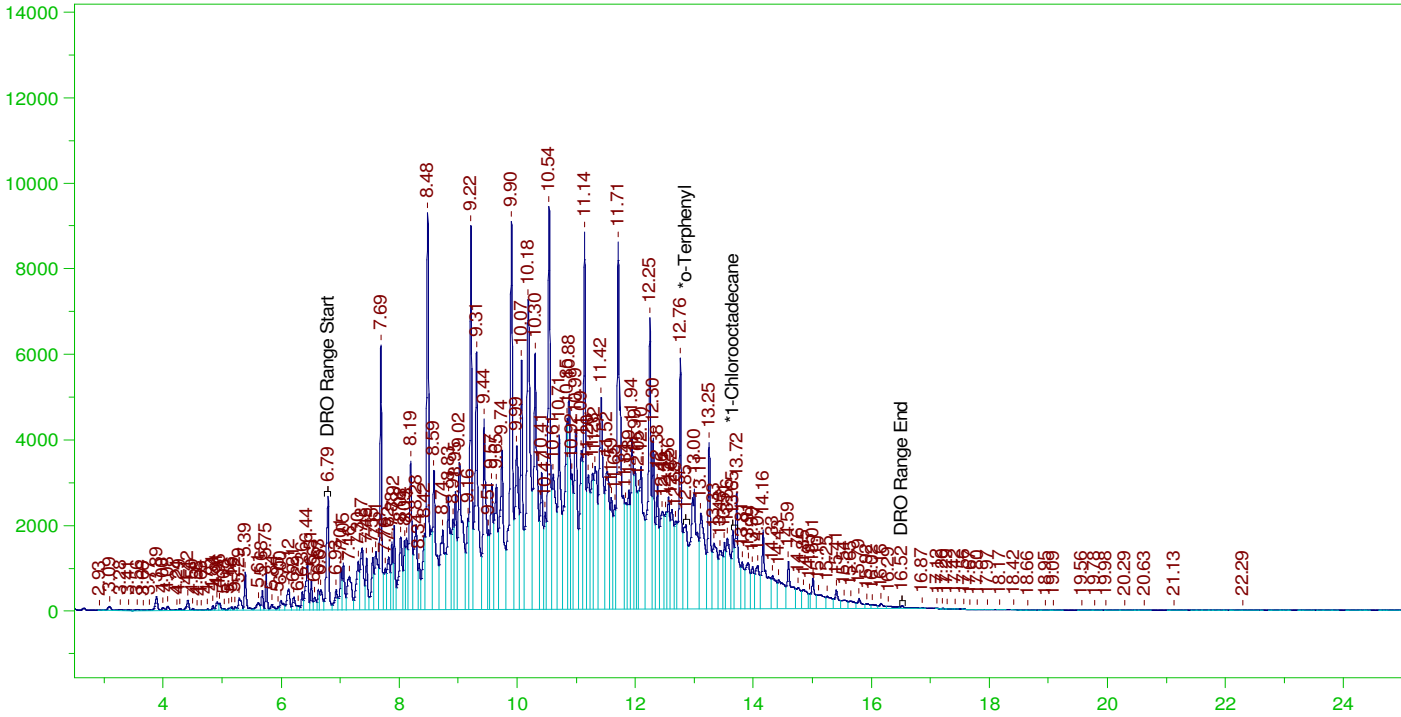
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0018.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14981.93	99.88	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.846	200.	119.117	59.56	85-115
*1-Chlorooctadecane	13.709	200.	132.401	66.2	85-115

G:\org\HP4\DAT\HP4110121_b\1101HP4.0019.RAW

CCV_1101HP419r, CAL4 ;1101HP4 , 37500ug per mL Diesel



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP419r, CAL4 ;1101HP4 , 37500ug per mL Diesel
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0019.RAW
 Date & Time Acquired: 11/2/2021 3:47:46 AM
 Method File: G:\Org\HP4\Methods\DC_8015-OA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

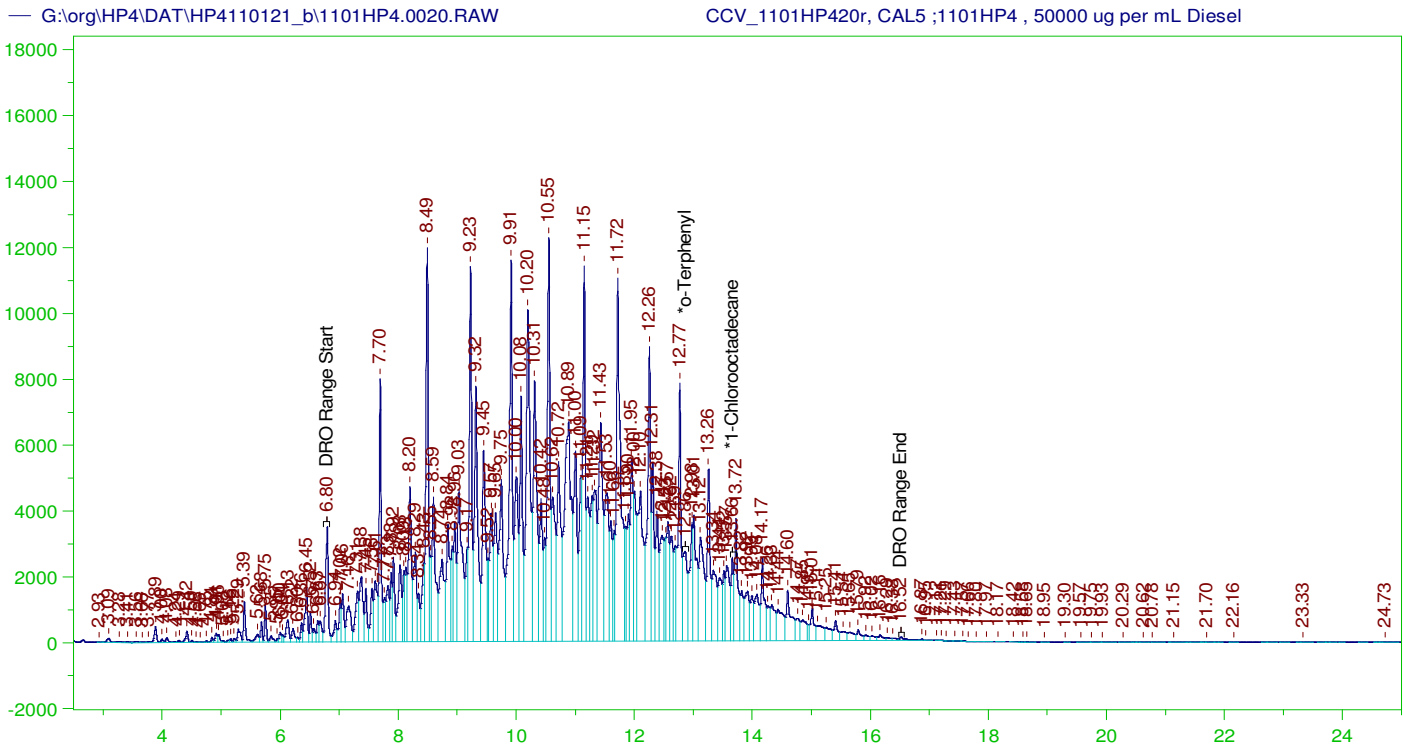
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.855	200.	279.085	139.54
*1-Chlorooctadecane	13.653	200.	147.666	73.83

DRO Area:1.040405E+09 DRO Amount: 35420.13
 TEH Area:1.066362E+09 TEH Amount: 36303.8

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0019.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	36303.8	242.03	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.855	200.	279.085	139.54	85-115
*1-Chlorooctadecane	13.653	200.	147.666	73.83	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP420r, CAL5 ;1101HP4 , 50000 ug per mL Diesel
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0020.RAW
 Date & Time Acquired: 11/2/2021 4:38:01 AM
 Method File: G:\Org\HP4\Methods\DC_8015-OA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

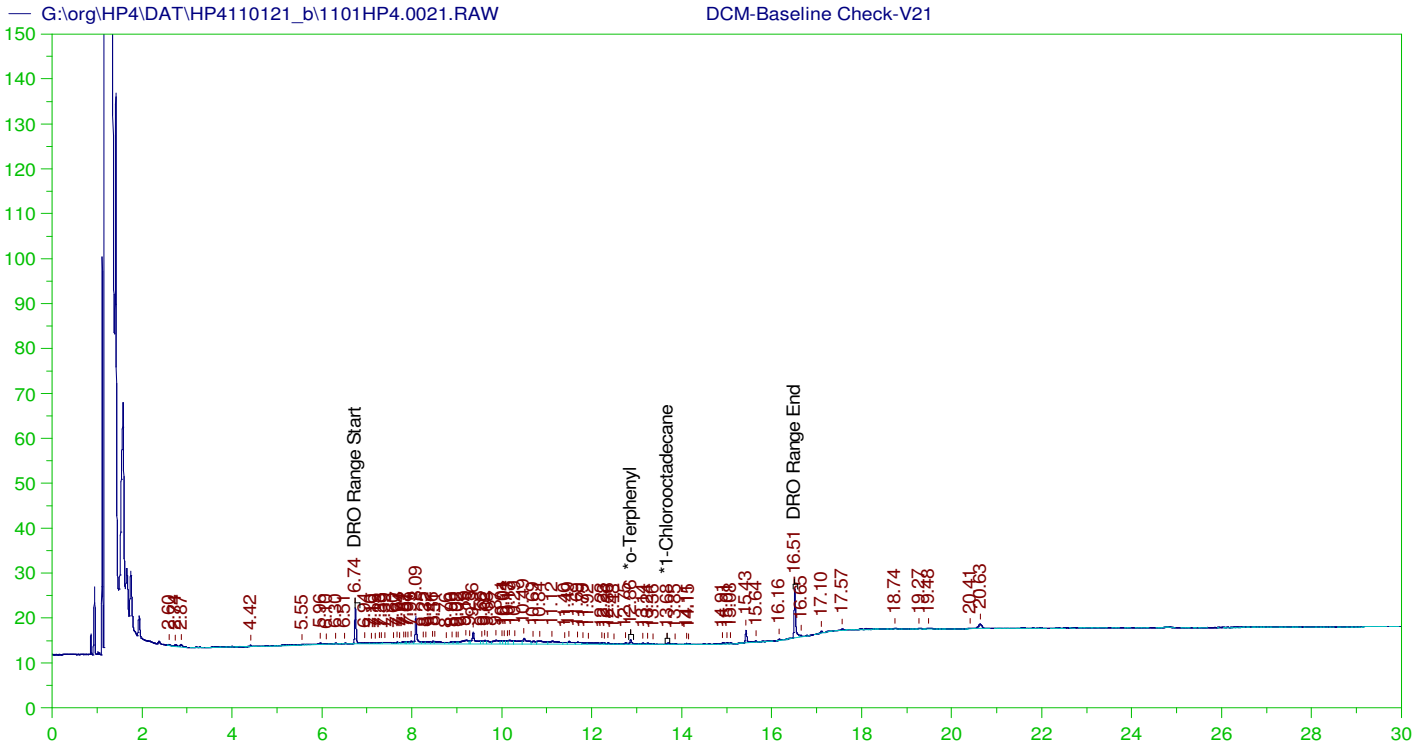
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.862	200.	408.713	204.36
*1-Chlorooctadecane	13.661	200.	204.074	102.04

DRO Area:1.453258E+09 DRO Amount: 49475.51
 TEH Area:1.48961E+09 TEH Amount: 50713.11

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0020.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	50713.11	338.09	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.862	200.	408.713	204.36	85-115
*1-Chlorooctadecane	13.661	200.	204.074	102.04	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V21
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0021.RAW
 Date & Time Acquired: 11/2/2021 5:28:21 AM
 Method File: G:\Org\HP4\methods\DR_8015-OA-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

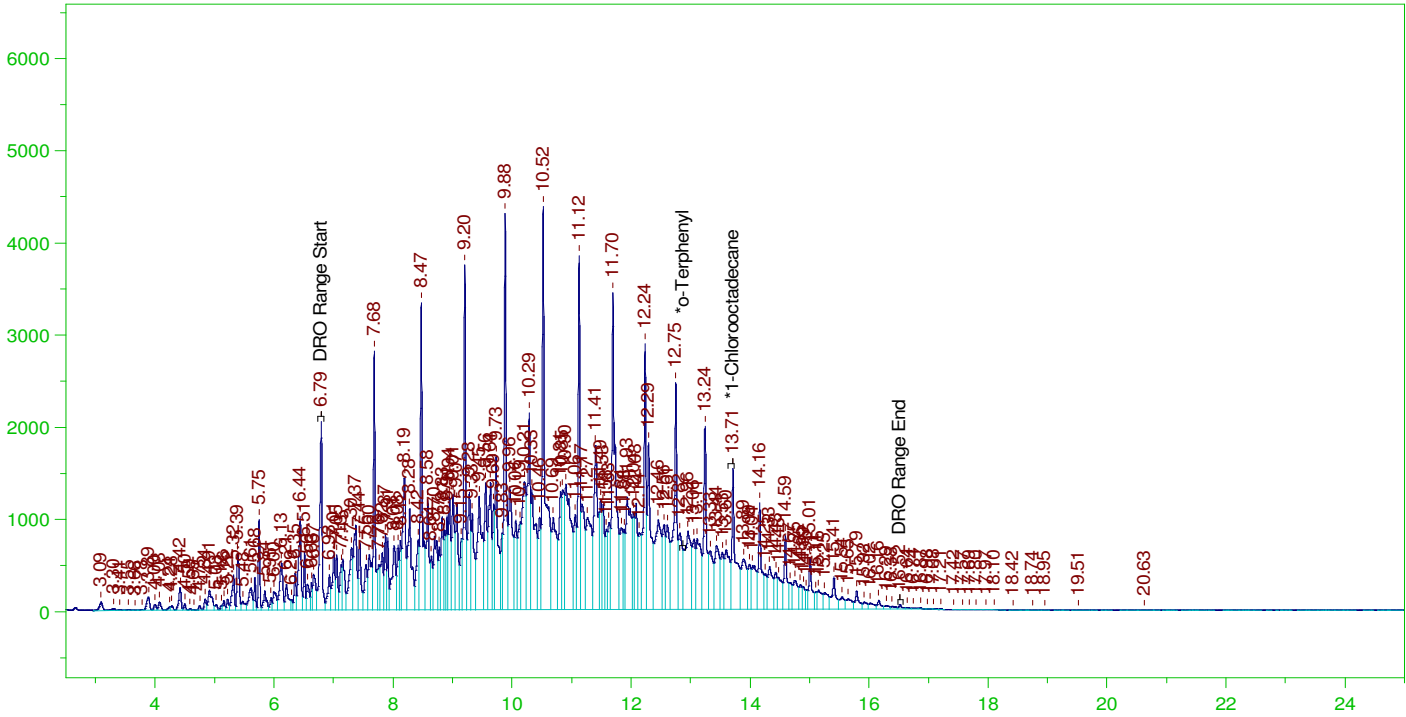
Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.865	200.	.126	.06	-
*1-Chlorooctadecane	13.677	200.	.038	.02	-

DRO Area:238253.6 DRO Amount: 8.111236
 TEH Area:273352.9 TEH Amount: 9.306175

G:\org\HP4\DAT\HP4110121_b\1101HP4.0022.RAW

CCV_1101HP422r, Second Source ;1101HP4 , 15000 ug per mL



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1101HP422r, Second Source ;1101HP4 , 15000 ug per mL
 Raw File: G:\org\HP4\DAT\HP4110121_b\1101HP4.0022.RAW
 Date & Time Acquired: 11/2/2021 6:18:32 AM
 Method File: G:\Org\HP4\Methods\DC_8015-OA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020A.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.74 to 16.58

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.896	200.	.	-
*1-Chlorooctadecane	13.712	200.	201.891	100.95 -

DRO Area: 4.14403E+08 DRO Amount: 14108.16
 TEH Area: 4.395233E+08 TEH Amount: 14963.37

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4110121_b\1101HP4.0022.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14963.37	99.76	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	29.896	200.	.	.	85-115
*1-Chlorooctadecane	13.712	200.	201.891	100.95	85-115

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
		DCM-Baseline Check-V07	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0	No Integration
		CCV_1101HP408r, DRO ;1101HP4 , DRO211025A	G:\Org\HP4\methods\DC_8015-OA-L0.met	1	1	1	1	0	No Integration
		DCM-Baseline Check-V09	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0	No Integration
		CCV_1101HP410r, CAL1 ;1101HP4 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0	Surrogates are integrated using valley to valley integration using a Set Baseline Now before at 12.51 and after at 13.17.
		CCV_1101HP411r, CAL2 ;1101HP4 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0	Surrogates are integrated using valley to valley integration using a Set Baseline Now before at 12.51 and after at 13.17.
		CCV_1101HP412r, CAL3 ;1101HP4 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0	Surrogates are integrated using valley to valley integration using a Set Baseline Now before at 12.51 and after at 13.17.
		CCV_1101HP413r, CAL4 ;1101HP4 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0	Surrogates are integrated using valley to valley integration using a Set Baseline Now before at 12.51 and after at 13.17.
		CCV_1101HP414r, CAL5 ;1101HP4 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO21101A + 750 DCM(14408))	G:\Org\HP4\methods\DS_8015-OA-L#.met	1	1	1	1	0	Surrogates are integrated using valley to valley integration using a Set Baseline Now before at 12.51 and after at 13.17.
		DCM-Baseline Check-V15	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0	No Integration
		CCV_1101HP416r, CAL1 ;1101HP4 , 150 ug per mL Diesel (10 uL of Cal3 + 990 uL DCM(14408)),	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1
		CCV_1101HP417r, CAL2 ;1101HP4 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1
		CCV_1101HP418r, CAL3 ;1101HP4 , 15000 ug per mL Diesel (300 uL of DRO211012A + 700 uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1
		CCV_1101HP419r, CAL4 ;1101HP4 , 37500 ug per mL Diesel (750 uL of DRO211012A + 250 uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1
		CCV_1101HP420r, CAL5 ;1101HP4 , 50000 ug per mL Diesel (200 uL of DRO211012A)	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1
		DCM-Baseline Check-V21	G:\Org\HP4\methods\DR_8015-OA-LEXP.met	1	1	1	1	0	No Integration
		CCV_1101HP422r, Second Source ;1101HP4 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14408))	G:\Org\HP4\Methods\DC_8015-OA-L%.met	1	1	1	1	0	The integration of Diesel Range Organics is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.01.17 15:04:47 -07:00

PREP BATCH REPORT

Prep Code: **HC-3520-DRO**
 Prep Batch **162648** Prep Temp **NA °C**

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

Prep Start Date: **1/3/2022 12:05:48 PM**
 Prep End Date: **1/4/2022 11:32:00 AM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
MB-162648			1000	0	0	1.00	0.001		1/3/2022	1/4/2022
Start time: 01/03/2022 at 12:00 PM. End time: 01/04/2022 at 6:50 AM SGT by ALN was performed on all sample using the remainder of sample on 1/6/2022.										
LCS-162648			1000	0	0	1.00	0.001		1/3/2022	1/4/2022
All bottles were completely used, defaced and disposed of on 01/03/2022										
LCS-162648-RRO			1000	0	0	1.00	0.001		1/3/2022	1/4/2022
B21122168-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/3/2022	1/4/2022
Bottle 1/6. Clear, orange sediment.										
B21122168-001DMS	Ground Water	2	1030	0	0	1.00	0.000971		1/3/2022	1/4/2022
Bottle 2/6. Clear, orange sediment.										
B21122168-001DMSD	Ground Water	2	1040	0	0	1.00	0.000962		1/3/2022	1/4/2022
Bottle 3/6. Clear, orange sediment.										
B21122168-001DMS-RRO	Ground Water	2	1020	0	0	1.00	0.00098		1/3/2022	1/4/2022
Bottle 4/6. Clear, orange sediment.										
B21122168-001DMSD-RRO	Ground Water	2	1050	0	0	1.00	0.000952		1/3/2022	1/4/2022
Bottle 5/6. Clear, orange sediment.										
B21122168-006D	Ground Water	2	1050	0	0	1.00	0.000952		1/3/2022	1/4/2022
Bottle 1/2. Clear.										
B21122168-007B	Ground Water	2	1050	0	0	1.00	0.000952		1/3/2022	1/4/2022
Bottle 1/2. Clear.										
B21122180-001D	Ground Water	2	980	0	0	1.00	0.00102		1/3/2022	1/4/2022
Bottle 1/2. Clear, light sediment.										
B21122188-001D	Ground Water	2	980	0	0	1.00	0.00102		1/3/2022	1/4/2022
Bottle 1/2. Clear.										
B21122190-001D	Ground Water	2	1020	0	0	1.00	0.00098		1/3/2022	1/4/2022
Bottle 1/2. Clear.										
B21122198-001D	Ground Water	2	1030	0	0	1.00	0.000971		1/3/2022	1/4/2022
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
14563	4ML, Amber Vial, 171001407106	11/30/2022
14647	Dichloromethane EC832	10/28/2023

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP211227 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
SG220101(13376)	Baked Silica Gel	all	5g	2/28/2030
Sulfate 12/26/21 (	Baked Sodium Sulfate	all	Varies	11/29/2026
Sulfate 12/27/21 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO211220D	Triacotane SURR 1000 ug/mL	all except LCS/D,	100 uL	4/6/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS/D-RRO, MS-	100 uL	9/1/2026

PREP BATCH REPORT

Prep Code: **HC-3520-DRO**
 Prep Batch **162648** Prep Temp **NA °C**

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

Prep Start Date: **1/3/2022 12:05:48 PM**
 Prep End Date: **1/4/2022 11:32:00 AM**

Sample ID	Matrix	pH	Initial Samp Amt	Sol Added	Sol Recovered	Final Vol (mL)	Factor	Balance	Prep Start Date	Prep End Date
B21122204-001D Bottle 1/2. Clear, light sediment.	Ground Water	2	1030	0	0	1.00	0.000971		1/3/2022	1/4/2022
B21122211-001D Bottle 1/2. Clear.	Ground Water	2	1020	0	0	1.00	0.00098		1/3/2022	1/4/2022
B22010002-001D Bottle 1/2. Clear.	Ground Water	2	980	0	0	1.00	0.00102		1/3/2022	1/4/2022
B22010002-002D Bottle 1/2. Clear.	Ground Water	2	1050	0	0	1.00	0.000952		1/3/2022	1/4/2022
B22010002-003B Bottle 1/2. Clear.	Ground Water	2	1040	0	0	1.00	0.000962		1/3/2022	1/4/2022
B21121965-001D Bottle 2/2. Clear, light sediment.	Ground Water	2	1030	0	0	1.00	0.000971		1/3/2022	1/4/2022

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

Spk ID	Spike Name	SampType	AmtAdd	Exp Date
FP211227 14446	DCM RINSED FILTER PAPER	all	1	4/6/2026
SG220101(13376)	Baked Silica Gel	all	5g	2/28/2030
Sulfate 12/26/21 (	Baked Sodium Sulfate	all	Varies	11/29/2026
Sulfate 12/27/21 (	Baked Sodium Sulfate	all	Varies	11/29/2026
DRO211220D	Triacontane SURR 1000 ug/mL	all except LCS/D,	100 uL	4/6/2026
DRO211213A	OTP only SURR 2000 ug/mL	All except RRO-L	100 uL	9/30/2024
DRO211012B	#2 Diesel in Acetone 150,000 ug/mL	LCS, LCSD, MS	100 uL	11/5/2023
DRO210902A	50,000 ug/mL Oil Std for RRO-In D	LCS/D-RRO, MS-	100 uL	9/1/2026

Energy Laboratories Inc

ANALYTICAL RUN Summary

24-Jan-22

Run ID GCFID-HP4-B_220105A

Run Start Date: 1/5/2022
Analyst: Ann Nebel
Ical:
Column ID:
Comments: DRO-8015 CAL information is in Index GCFID-HP4-B_211101A; DRO-8015-OIL CAL information is in Index GCFID-HP4-B_211006B

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
DRO211220B	Carbon Scan STD-Marker					MARKER	3/5/2028
DRO211229A	8015 CCV-15,000ug/mL + 200 OTP/COD					CCV-DRO	4/30/2023
DRO220102A	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					
14967196	CCV_0105HP40	HC-8015-DRO-	CCV		1/5/2022 7:47:16	1	R372780		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		4.52170557		5	0	0	0.0513	0.3	0	90%	80	120	0%	
n-Triacontane	S	mg/L		0.2292746		0.2	0	0	0.00054	0.002	0	115%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967197	CCV_0105HP40	HC-8015-DRO-	CCV		1/5/2022 8:32:25	1	R372780		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.89013		15	0	0	0.0358	0.3	0	99%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.44598		15	0	0	0.0782	0.3	50	103%	80	120	0%	
o-Terphenyl	S	mg/L		0.2136318		0.2	0	0	0.000531	0.002	0	107%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967198	LCS-162648	HC-8015-DRO-	LCS-DOD		1/5/2022 10:02:4	1	162648	1/3/2022 12:	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					
14967198	LCS-162648	HC-8015-DRO-	LCS-DOD		1/5/2022 10:02:4	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		13.74699		15	0	0	0.0358	0.3	0	92%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		14.7815		15	0	0	0.0782	0.3	50	99%	60	132	0%	
o-Terphenyl	S	mg/L		0.178984		0.2	0	0	0.000531	0.002	0	89%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967199	MB-162648	HC-8015-DRO-	MBLK		1/5/2022 10:47:3	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0		0	0	0	0.0358	0.15	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0513	0.15	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.0782	0.15	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1138		0.1	0	0	0.00054	0.002	0	114%	50	150	0%	
o-Terphenyl	S	mg/L		0.1810355		0.2	0	0	0.000531	0.002	0	91%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967200	B21122211-001	HC-8015-DRO-	SAMP		1/5/2022 11:33:0	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.03807775		0	0	0	0.035084	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.050274	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0		0	0	0	0.076636	0.3	50	0%	0	0	0%	U
n-Triacontane	S	mg/L		0.1136		0.098	0	0	0.0005292	0.00196	0	116%	50	150	0%	
o-Terphenyl	S	mg/L		0.1788509		0.196	0	0	0.0005204	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					
14967201	B21122190-001	HC-8015-DRO-	SAMP		1/5/2022 12:18:3	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		3.623437		0	0	0	0.035084	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.47936064		0	0	0	0.050274	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		4.055141		0	0	0	0.076636	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1161		0.098	0	0	0.0005292	0.00196	0	118%	50	150	0%	
o-Terphenyl	S	mg/L		0.1494026		0.196	0	0	0.0005204	0.002	0	76%	56	125	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967202	B21122198-001	HC-8015-DRO-	SAMP		1/5/2022 1:04:09	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.1557866		0	0	0	0.0347618	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.33761507		0	0	0	0.0498123	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.4866137		0	0	0	0.0759322	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1194		0.0971	0	0	0.0005243	0.001942	0	123%	50	150	0%	
o-Terphenyl	S	mg/L		0.1754374		0.1942	0	0	0.0005156	0.002	0	90%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967203	B21122204-001	HC-8015-DRO-	SAMP		1/5/2022 2:34:32	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		2.101262		0	0	0	0.0347618	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.47351003		0	0	0	0.0498123	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		2.563904		0	0	0	0.0759322	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1195		0.0971	0	0	0.0005243	0.001942	0	123%	50	150	0%	
o-Terphenyl	S	mg/L		0.1861172		0.1942	0	0	0.0005156	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					
14967204	B21122180-001	HC-8015-DRO-	SAMP		1/5/2022 3:20:46	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.2366515		0	0	0	0.036516	0.306	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.43372181		0	0	0	0.052326	0.306	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.6432119		0	0	0	0.079764	0.306	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1172		0.102	0	0	0.0005508	0.00204	0	115%	50	150	0%	
o-Terphenyl	S	mg/L		0.1828656		0.204	0	0	0.0005416	0.00204	0	90%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967205	B21122188-001	HC-8015-DRO-	SAMP		1/5/2022 4:06:13	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.05047259		0	0	0	0.036516	0.306	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.20963196		0	0	0	0.052326	0.306	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2726293		0	0	0	0.079764	0.306	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.1234		0.102	0	0	0.0005508	0.00204	0	121%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967205	B21122188-001	HC-8015-DRO-	SAMP		1/5/2022 4:06:13	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl	S	mg/L		0.1897967		0.204	0	0	0.0005416	0.00204	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					
14967206	B21121965-001	HC-8015-DRO-	SAMP		1/5/2022 5:36:53	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.1350194		0	0	0	0.0347618	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.3997511		0	0	0	0.0498123	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.520279		0	0	0	0.0759322	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1161		0.0971	0	0	0.0005243	0.001942	0	120%	50	150	0%	
o-Terphenyl	S	mg/L		0.145888		0.1942	0	0	0.0005156	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					
14967207	CCV_0105HP41	HC-8015-DRO-	CCV		1/5/2022 7:07:04	1	R372780				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		4.67109424		5	0	0	0.0513	0.3	0	93%	80	120	0%	
n-Triacontane	S	mg/L		0.2325608		0.2	0	0	0.00054	0.002	0	116%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967208	CCV_0105HP41	HC-8015-DRO-	CCV		1/5/2022 7:51:49	1	R372780				0	0				
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.48507		15	0	0	0.0358	0.3	0	97%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.02254		15	0	0	0.0782	0.3	50	100%	80	120	0%	
o-Terphenyl	S	mg/L		0.2067744		0.2	0	0	0.000531	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					
14967209	B22010002-001	HC-8015-DRO-	SAMP		1/5/2022 9:21:48	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		1.139412		0	0	0	0.036516	0.306	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.32413495		0	0	0	0.052326	0.306	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		1.445358		0	0	0	0.079764	0.306	50	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967209	B22010002-001	HC-8015-DRO-	SAMP		1/5/2022 9:21:48	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
n-Triacontane	S	mg/L		0.1192		0.102	0	0	0.0005508	0.00204	0	117%	50	150	0%	
o-Terphenyl	S	mg/L		0.186103		0.204	0	0	0.0005416	0.00204	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					
14967210	B22010002-002	HC-8015-DRO-	SAMP		1/5/2022 10:06:5	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.1496193		0	0	0	0.0340816	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0		0	0	0	0.0488376	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons	A	mg/L		0.1585491		0	0	0	0.0744464	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.1169		0.0952	0	0	0.0005141	0.001904	0	123%	50	150	0%	
o-Terphenyl	S	mg/L		0.1839051		0.1904	0	0	0.0005055	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					
14967211	B22010002-003	HC-8015-DRO-	SAMP		1/5/2022 10:51:4	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.9290905		0	0	0	0.0344396	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.29899383		0	0	0	0.0493506	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		1.216881		0	0	0	0.0752284	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1229		0.0962	0	0	0.0005195	0.001924	0	128%	50	150	0%	
o-Terphenyl	S	mg/L		0.1917267		0.1924	0	0	0.0005108	0.002	0	100%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967212	B21122168-001	HC-8015-DRO-	SAMP		1/6/2022 12:21:1	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.06263258		0	0	0	0.0347618	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.15421365		0	0	0	0.0498123	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.2275338		0	0	0	0.0759322	0.3	50	0%	0	0	0%	J
n-Triacontane	S	mg/L		0.1193		0.0971	0	0	0.0005243	0.001942	0	123%	50	150	0%	
o-Terphenyl	S	mg/L		0.132058		0.1942	0	0	0.0005156	0.002	0	68%	56	125	0%	
TEH(Oil Range)	X	mg/L		0.22462791		0	0	0	0.0498123	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					
14967213	B21122168-001	HC-8015-DRO-	MS-DOD		1/6/2022 1:06:20	1	162648	1/3/2022 12:	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		14.49779		14.565	0.0626326	0	0.0347618	0.3	0	99%	36	132	0%	
Total Extractable Hydrocarbons	A	mg/L		15.6575		14.565	0.2275338	0	0.0759322	0.3	50	106%	60	132	0%	
o-Terphenyl	S	mg/L		0.1517771		0.1942	0	0	0.0005156	0.002	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					
14967214	B21122168-001	HC-8015-DRO-	MSD-DOD		1/6/2022 1:51:26	1	162648	1/3/2022 12:	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		14.95923		14.43	0.0626326	14.49779	0.0344396	0.3	0	103%	36	132	3%	
Total Extractable Hydrocarbons	A	mg/L		16.10783		14.43	0.2275338	15.6575	0.0752284	0.3	50	110%	60	132	3%	
o-Terphenyl	S	mg/L		0.1588895		0.1924	0	0	0.0005108	0.002	0	83%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967215	B21122168-006	HC-8015-DRO-	SAMP		1/6/2022 4:06:01	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.2908688		0	0	0	0.0340816	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.37819862		0	0	0	0.0488376	0.3	0	0%	0	0	0%	
Total Extractable Hydrocarbons	A	mg/L		0.6843358		0	0	0	0.0744464	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1129		0.0952	0	0	0.0005141	0.001904	0	119%	50	150	0%	
o-Terphenyl	S	mg/L		0.1480859		0.1904	0	0	0.0005055	0.002	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					
14967216	B21122168-007	HC-8015-DRO-	SAMP		1/6/2022 4:50:51	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		0.2836232		0	0	0	0.0340816	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (C24 to C40)	A	mg/L		0.24363011		0	0	0	0.0488376	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons	A	mg/L		0.5941782		0	0	0	0.0744464	0.3	50	0%	0	0	0%	
n-Triacontane	S	mg/L		0.1166		0.0952	0	0	0.0005141	0.001904	0	122%	50	150	0%	
o-Terphenyl	S	mg/L		0.1823052		0.1904	0	0	0.0005055	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					
14967217	CCV_0105HP43	HC-8015-DRO-	CCV		1/6/2022 6:20:47	1	R372780		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		4.7466626		5	0	0	0.0513	0.3	0	95%	80	120	0%	
n-Triacontane	S	mg/L		0.2302173		0.2	0	0	0.00054	0.002	0	115%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967218	CCV_0105HP43	HC-8015-DRO-	CCV		1/6/2022 7:05:47	1	R372780		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		15.129		15	0	0	0.0358	0.3	0	101%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.68617		15	0	0	0.0782	0.3	50	105%	80	120	0%	
o-Terphenyl	S	mg/L		0.2048343		0.2	0	0	0.000531	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					
14967219	LCS-162648-RR	HC-8015-DRO-	LCS-DOD		1/6/2022 8:36:11	1	162648	1/3/2022 12:	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		4.66724253		5	0	0	0.0513	0.3	0	93%	41	113	0%	
n-Triacontane	S	mg/L		0.1145		0.1	0	0	0.00054	0.002	0	115%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967220	B21122168-001	HC-8015-DRO-	MS-DOD		1/6/2022 10:06:5	1	162648	1/3/2022 12:	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		4.72792244		4.9	0.2246279	0	0.050274	0.3	0	92%	41	113	0%	
n-Triacontane	S	mg/L		0.1135		0.098	0	0	0.0005292	0.002	0	116%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967221	B21122168-001	HC-8015-DRO-	MSD-DOD		1/6/2022 11:37:4	1	162648	1/3/2022 12:	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		5.524624		4.76	0.2246279	4.7279224	0.0488376	0.3	0	111%	41	113	16%	
n-Triacontane	S	mg/L		0.1363		0.0952	0	0	0.0005141	0.002	0	143%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14967222	CCV_0105HP44	HC-8015-DRO-	CCV		1/6/2022 1:08:43	1	R372780		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		4.809896		5	0	0	0.0513	0.3	0	96%	80	120	0%	
n-Triacontane	S	mg/L		0.2368726		0.2	0	0	0.00054	0.002	0	118%	80	120	0%	

Energy Laboratories Inc

ANALYTICAL RUN Summary

24-Jan-22

Run ID GCFID-HP4-B_220106A

Run Start Date: 1/6/2022
Analyst: Ann Nebel
Ical:
Column ID:
Comments: DRO-8015 CAL information is in Index GCFID-HP4-B_211101A; DRO-8015-OIL CAL information is in Index GCFID-HP4-B_211006B

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

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968576	CCV_0106HP40	HC-8015-DRO-	CCV		1/6/2022 6:57:52	1	R372868		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		4.37662061		5	0	0	0.0513	0.3	0	88%	80	120	0%	
n-Triacontane	S	mg/L		0.2021588		0.2	0	0	0.00054	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					
14968577	CCV_0106HP40	HC-8015-DRO-	CCV		1/6/2022 7:43:00	1	R372868		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.07434		15	0	0	0.0358	0.3	0	94%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.59479		15	0	0	0.0782	0.3	50	97%	80	120	0%	
o-Terphenyl	S	mg/L		0.1941141		0.2	0	0	0.000531	0.002	0	97%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968578	LCS-162648	HC-8015-DRO-	LCS-DOD		1/6/2022 9:13:27	1	162648	1/3/2022 12:	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					
14968578	LCS-162648	HC-8015-DRO-	LCS-DOD		1/6/2022 9:13:27	1	162648	1/3/2022 12:	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		10.50824		15	0	0	0.0358	0.3	0	70%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		11.20314		15	0	0	0.0782	0.3	0	75%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.1435069		0.2	0	0	0.000531	0.002	0	72%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968579	MB-162648	HC-8015-DRO-	MBLK		1/6/2022 9:58:42	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0		0	0	0	0.0358	0.15	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0513	0.15	0	0%	0	0	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0782	0.15	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1267		0.1	0	0	0.00054	0.002	0	127%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.2194552		0.2	0	0	0.000531	0.002	0	110%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968580	B21122211-001	HC-8015-DRO-	SAMP		1/6/2022 10:43:3	1	162648	1/3/2022 12:	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	0.035084	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.050274	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.076636	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0718		0.098	0	0	0.0005292	0.00196	0	73%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1268485		0.196	0	0	0.0005204	0.00196	0	65%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968581	B21122190-001	HC-8015-DRO-	SAMP		1/6/2022 11:28:5	1	162648	1/3/2022 12:	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		0.3226442		0	0	0	0.035084	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.050274	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0.3388759		0	0	0	0.076636	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1032		0.098	0	0	0.0005292	0.00196	0	105%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.142906		0.196	0	0	0.0005204	0.00196	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					
14968582	B21122198-001	HC-8015-DRO-	SAMP		1/7/2022 12:14:1	1	162648	1/3/2022 12:	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	0.0347618	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0498123	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0759322	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1073		0.0971	0	0	0.0005243	0.001942	0	111%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1689406		0.1942	0	0	0.0005156	0.001942	0	87%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968583	B21122204-001	HC-8015-DRO-	SAMP		1/7/2022 1:44:55	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		1.476135		0	0	0	0.0347618	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0.15696336		0	0	0	0.0498123	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT	A	mg/L		1.628552		0	0	0	0.0759322	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1087		0.0971	0	0	0.0005243	0.001942	0	112%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1812886		0.1942	0	0	0.0005156	0.001942	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					
14968584	B21122180-001	HC-8015-DRO-	SAMP		1/7/2022 2:30:09	1	162648	1/3/2022 12:	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	0.036516	0.306	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.052326	0.306	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.079764	0.306	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1168		0.102	0	0	0.0005508	0.00204	0	115%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1910563		0.204	0	0	0.0005416	0.00204	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					
14968585	B21122188-001	HC-8015-DRO-	SAMP		1/7/2022 3:15:30	1	162648	1/3/2022 12:	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	0.036516	0.306	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.052326	0.306	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.079764	0.306	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1112		0.102	0	0	0.0005508	0.00204	0	109%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968585	B21122188-001	HC-8015-DRO-	SAMP		1/7/2022 3:15:30	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
o-Terphenyl (SGT)	S	mg/L		0.1762693		0.204	0	0	0.0005416	0.00204	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					
14968586	B21121965-001	HC-8015-DRO-	SAMP		1/7/2022 4:46:07	1	162648	1/3/2022 12:	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	0.0347618	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	mg/L			0		0	0	0	0.0498123	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	mg/L			0		0	0	0	0.0759322	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.1112		0.0971	0	0	0.0005243	0.001942	0	115%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1304802		0.1942	0	0	0.0005156	0.001942	0	67%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968587	CCV_0106HP41	HC-8015-DRO-	CCV		1/7/2022 6:16:24	1	R372868				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		4.4447627		5	0	0	0.0513	0.3	0	89%	80	120	0%	
n-Triacontane	S	mg/L		0.1987371		0.2	0	0	0.00054	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					
14968588	CCV_0106HP42	HC-8015-DRO-	CCV		1/7/2022 7:01:36	1	R372868				0	0				
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.46529		15	0	0	0.0358	0.3	0	96%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		15.00816		15	0	0	0.0782	0.3	50	100%	80	120	0%	
o-Terphenyl	S	mg/L		0.2007467		0.2	0	0	0.000531	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					
14968589	B22010002-002	HC-8015-DRO-	SAMP		1/7/2022 8:31:12	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to A	mg/L			0		0	0	0	0.0340816	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t	mg/L			0		0	0	0	0.0488376	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	mg/L			0		0	0	0	0.0744464	0.3	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					
14968589	B22010002-002	HC-8015-DRO-	SAMP		1/7/2022 8:31:12	1	162648	1/3/2022 12:	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		0.1066		0.0952	0	0	0.0005141	0.001904	0	112%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1807757		0.1904	0	0	0.0005055	0.001904	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					
14968590	B22010002-001	HC-8015-DRO-	SAMP		1/7/2022 9:16:25	1	162648	1/3/2022 12:	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			0.6793557		0	0	0	0.036516	0.306	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0.2154658		0	0	0	0.052326	0.306	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT A	mg/L			0.8910708		0	0	0	0.079764	0.306	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.1063		0.102	0	0	0.0005508	0.00204	0	104%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1789617		0.204	0	0	0.0005416	0.00204	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					
14968591	B22010002-003	HC-8015-DRO-	SAMP		1/7/2022 10:01:3	1	162648	1/3/2022 12:	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			0.4786824		0	0	0	0.0344396	0.3	0	0%	0	0	0%	
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0.19685236		0	0	0	0.0493506	0.3	0	0%	0	0	0%	J
Total Extractable Hydrocarbons (SGT A	mg/L			0.6677145		0	0	0	0.0752284	0.3	0	0%	0	0	0%	
n-Triacontane (SGT)	S	mg/L		0.0978		0.0962	0	0	0.0005195	0.001924	0	102%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.167389		0.1924	0	0	0.0005108	0.001924	0	87%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968592	B21122168-001	HC-8015-DRO-	SAMP		1/7/2022 11:31:5	1	162648	1/3/2022 12:	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	0.0347618	0.3	0	0%	0	0	0%	U
Oil Range Hydrocarbons (SGT-C24 t A	mg/L			0		0	0	0	0.0498123	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT A	mg/L			0		0	0	0	0.0759322	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0937		0.0971	0	0	0.0005243	0.001942	0	96%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.10878		0.1942	0	0	0.0005156	0.001942	0	56%	56	125	0%	

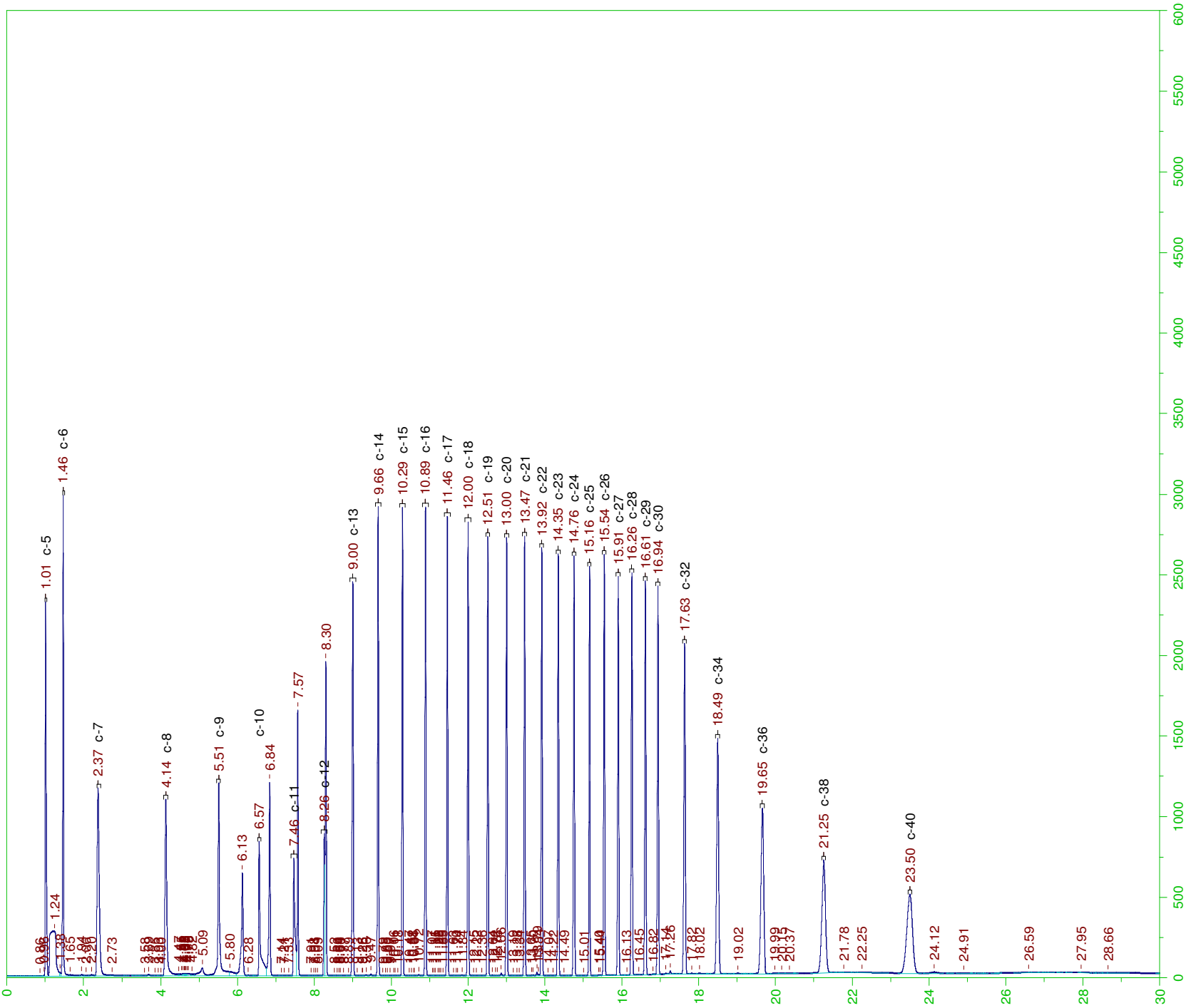
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968593	B21122168-006	HC-8015-DRO-	SAMP		1/7/2022 12:16:5	1	162648	1/3/2022 12:	0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		0.04466128		0	0	0	0.0340816	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0488376	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0		0	0	0	0.0744464	0.3	0	0%	0	0	0%	U
n-Triacontane (SGT)	S	mg/L		0.0912		0.0952	0	0	0.0005141	0.001904	0	96%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1260865		0.1904	0	0	0.0005055	0.001904	0	66%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968594	B21122168-007	HC-8015-DRO-	SAMP		1/7/2022 1:01:52	1	162648	1/3/2022 12:	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		0.1127032		0	0	0	0.0340816	0.3	0	0%	0	0	0%	J
Oil Range Hydrocarbons (SGT-C24 t	A	mg/L		0		0	0	0	0.0488376	0.3	0	0%	0	0	0%	U
Total Extractable Hydrocarbons (SGT	A	mg/L		0.1259788		0	0	0	0.0744464	0.3	0	0%	0	0	0%	J
n-Triacontane (SGT)	S	mg/L		0.0939		0.0952	0	0	0.0005141	0.001904	0	99%	50	150	0%	
o-Terphenyl (SGT)	S	mg/L		0.1536489		0.1904	0	0	0.0005055	0.001904	0	81%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968595	B21122168-001	HC-8015-DRO-	MS-DOD		1/7/2022 1:46:33	1	162648	1/3/2022 12:	1E+07	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (SGT-C10 to	A	mg/L		12.00735		14.565	0	0	0.0347618	0.3	0	82%	36	132	0%	
Total Extractable Hydrocarbons (SGT	A	mg/L		12.75319		14.565	0	0	0.0759322	0.3	0	88%	60	132	0%	
o-Terphenyl (SGT)	S	mg/L		0.1337121		0.1942	0	0	0.0005156	0.002	0	69%	56	125	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14968596	B21122168-001	HC-8015-DRO-	MSD-DOD		1/7/2022 2:31:18	1	162648	1/3/2022 12:	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		12.87747		14.43	0	12.00735	0.0344396	0.3	0	89%	36	132	7%	
Total Extractable Hydrocarbons (SGT	A	mg/L		13.6418		14.43	0	12.75319	0.0752284	0.3	0	95%	60	132	7%	
o-Terphenyl (SGT)	S	mg/L		0.1446358		0.1924	0	0	0.0005108	0.002	0	75%	56	125	0%	

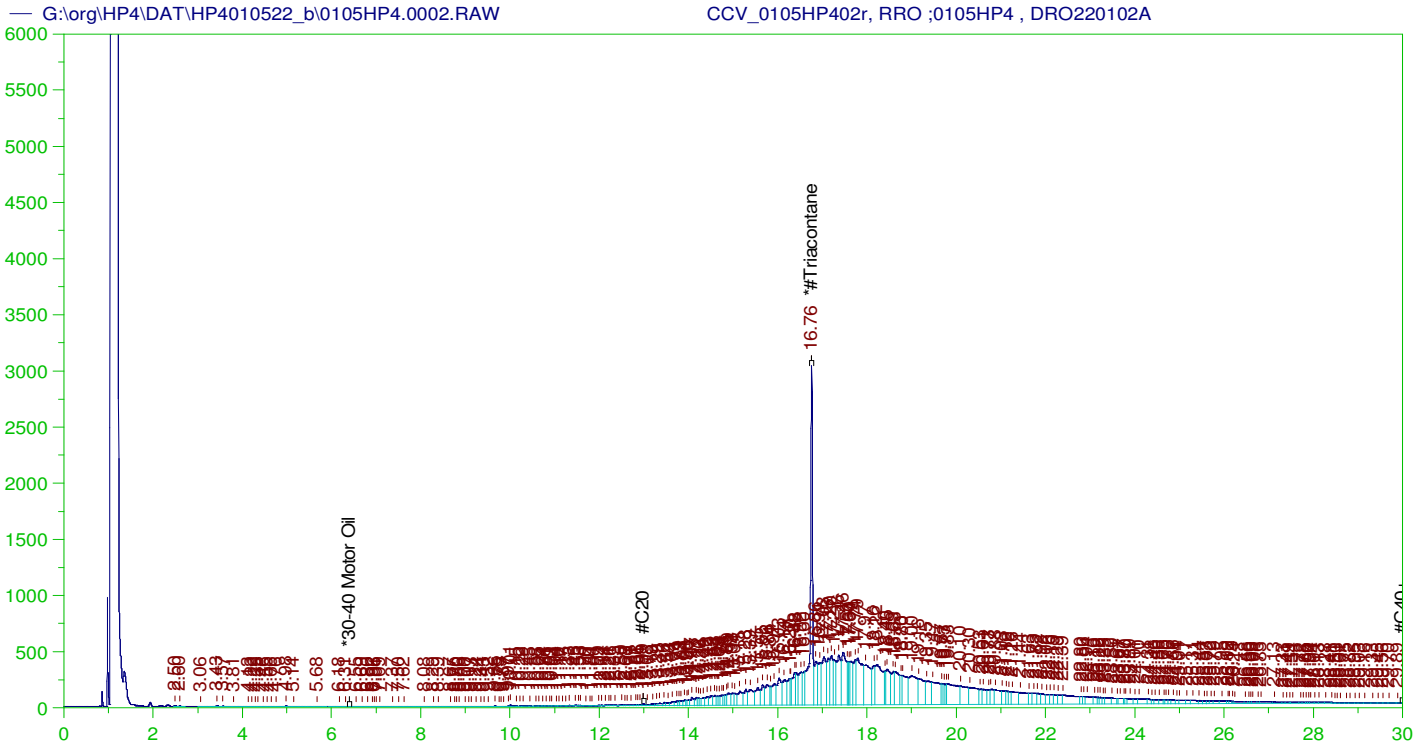
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14969703	CCV_0106HP43	HC-8015-DRO-	CCV		1/7/2022 4:01:11	1	R372868		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH(Oil Range)	A	mg/L		4.52395215		5	0	0	0.0513	0.3	0	90%	80	120	0%	
n-Triacontane	S	mg/L		0.2073596		0.2	0	0	0.00054	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					
14969704	CCV_0106HP43	HC-8015-DRO-	CCV		1/7/2022 4:45:57	1	R372868		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Diesel Range Organics (C10 to C24)	A	mg/L		14.25502		15	0	0	0.0358	0.3	0	95%	80	120	0%	
Total Extractable Hydrocarbons	A	mg/L		14.7904		15	0	0	0.0782	0.3	50	99%	80	120	0%	
o-Terphenyl	S	mg/L		0.1969217		0.2	0	0	0.000531	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					
14969705	LCS-162648-RR	HC-8015-DRO-	LCS-DOD		1/7/2022 6:16:12	1	162648	1/3/2022 12:	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		4.47460938		5	0	0	0.0513	0.3	0	89%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.1051		0.1	0	0	0.00054	0.002	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					
14969706	B21122168-001	HC-8015-DRO-	MS-DOD		1/7/2022 7:46:27	1	162648	1/3/2022 12:	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		4.59939289		4.9	0	0	0.050274	0.3	0	94%	41	113	0%	
n-Triacontane (SGT)	S	mg/L		0.1092		0.098	0	0	0.0005292	0.002	0	111%	50	150	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14969707	B21122168-001	HC-8015-DRO-	MSD-DOD		1/7/2022 9:16:27	1	162648	1/3/2022 12:	1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
TEH (SGT-Oil Range)	A	mg/L		4.29931927		4.76	0	4.5993929	0.0488376	0.3	0	90%	41	113	7%	
n-Triacontane (SGT)	S	mg/L		0.0994		0.0952	0	0	0.0005141	0.002	0	104%	50	150	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14969708	CCV_0106HP44	HC-8015-DRO-	CCV		1/7/2022 10:46:2	1	R372868		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	4.54793066			5	0	0	0.0513	0.3	0	91%	80	120	0%	
n-Triacontane	S	mg/L	0.2026503			0.2	0	0	0.00054	0.002	0	101%	80	120	0%	

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP4\DAT\HP4010522_b\0105HP4.01r	MARKER_0105HP401r, DRO ;0105HP4 , DRO211220B	G:\org\HP4\Methods\CSC220105.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.02r	CCV_0105HP402r, RRO ;0105HP4 , DRO220102A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.03r	CCV_0105HP403r, DRO ;0105HP4 , DRO211229A	G:\Org\HP4\Methods\DC_8015-C24-OI-L%.met G:\Org\HP4\Methods\DS_8015-C24-OI-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.04r	DCM-Baseline Check-V04	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.05r	LCS-162648 ;0105HP4 ,	G:\Org\HP4\Methods\D3_8015-C24-OI-L%.met G:\Org\HP4\Methods\DS_8015-C24-OI-L%.met	1000	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.06r	MB-162648 ;0105HP4 ,	G:\Org\HP4\Methods\DR_8015-C24T-OI-L%.met G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1000	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.07r	B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\DR_8015-C24T-OI-L%.met G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1020	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.08r	B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1020	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.09r	B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.10r	DCM-Baseline Check-V10	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.11r	B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.12r	B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	980	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.13r	B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-010513-OI-L%.met G:\Org\HP4\Methods\D3_ORO-010513-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	980	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.14r	DCM-Baseline Check-V14	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.15r	B211221965-001D ;0105HP4 , \$HC-8015-DRO-W, RX	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.16r	MARKER_0105HP416r, DRO ;0105HP4 , DRO211220B	G:\org\HP4\Methods\CSC220105.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.17r	CCV_0105HP417r, RRO ;0105HP4 , DRO220102A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.18r	CCV_0105HP418r, DRO ;0105HP4 , DRO211229A	G:\Org\HP4\Methods\DC_8015-C24-OI-L%.met G:\Org\HP4\Methods\DS_8015-C24-OI-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.19r	DCM-Baseline Check-V19	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.20r	B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-010513-OI-L%.met G:\Org\HP4\Methods\D3_ORO-010513-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	980	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.21r	B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\DR_8015-C24T-OI-L%.met G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.22r	B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1040	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.23r	DCM-Baseline Check-V23	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.24r	B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\DR_8015-010524-OI-L%.met G:\Org\HP4\Methods\DR_ORO-010524-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.25r	B21122168-001DMS ;0105HP4 ,	G:\Org\HP4\Methods\D3_8015-C24-OI-L%.met G:\Org\HP4\Methods\DS_8015-C24-OI-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.26r	B21122168-001DMSD ;0105HP4 ,	G:\Org\HP4\Methods\D3_8015-C24-OI-L%.met G:\Org\HP4\Methods\DS_8015-C24-OI-L%.met	1040	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.27r	DCM-Baseline Check-V27	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.28r	DCM-Baseline Check-V28	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.29r	B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.30r	B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\Methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\Methods\DS_8015-T-OI-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.31r	MARKER_0105HP431r, DRO ;0105HP4 , DRO211220B	G:\org\HP4\Methods\CSC220105.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.32r	CCV_0105HP432r, RRO ;0105HP4 , DRO220102A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.33r	CCV_0105HP433r, DRO ;0105HP4 , DRO211229A	G:\Org\HP4\Methods\DC_8015-C24-OI-L%.met G:\Org\HP4\Methods\DS_8015-C24-OI-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.34r	DCM-Baseline Check-V34	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.35r	LCS-162648-RRO ;0105HP4 ,	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1000	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.36r	DCM-Baseline Check-V36	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.37r	B21122168-001DMS-RRO ;0105HP4 ,	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1020	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.38r	DCM-Baseline Check-V38	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.39r	B21122168-001DMSD-RRO ;0105HP4 ,	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.40r	MARKER_0105HP440r, DRO ;0105HP4 , DRO211220B	G:\org\HP4\Methods\CSC220102.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010522_b\0105HP4.41r	CCV_0105HP441r, RRO ;0105HP4 , DRO220102A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0

Write Sequence	Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
	G:\org\HP4\DAT\HP4010622_b\0106HP4.01	DCM-Baseline Check-V01	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.02	DCM-Baseline Check-V02	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.03	MARKER_0106HP403r, DRO :0106HP4 , DRO211220B	G:\org\HP4\Methods\CSC220106.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.04	CCV_0106HP404r, RRO :0106HP4 , DRO220106A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.05	CCV_0106HP405r, DRO :0106HP4 , DRO220105B	G:\Org\HP4\Methods\DC_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_8015-C24-OJ-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.06	DCM-Baseline Check-V06	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.07	LCS-162648 :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_8015-C24-OJ-L%.met	1000	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.08	MB-162648 :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1000	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.09	B21122211-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1020	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.10	B21122190-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1020	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.11	B21122198-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.12	DCM-Baseline Check-V12	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.13	B21122204-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.14	B21122180-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	980	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.15	B21122188-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	980	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.16	DCM-Baseline Check-V16	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.17	B21121965-001D :0106HP4 , \$HC-8015-DRO-W, RX-SGT	G:\Org\HP4\Methods\DR_8015-010617-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-010617-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.18	MARKER_0106HP418r, DRO :0106HP4 , DRO211220B	G:\org\HP4\Methods\CSC220106.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.19	CCV_0106HP419r, RRO :0106HP4 , DRO220106A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.20	CCV_0106HP420r, DRO :0106HP4 , DRO220105B	G:\Org\HP4\Methods\DC_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_8015-C24-OJ-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.21	DCM-Baseline Check-V21	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.22	B22010002-002D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.23	B22010002-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	980	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.24	B22010002-003B :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1040	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.25	DCM-Baseline Check-V25	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.26	B21122168-001D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.27	B21122168-006D :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.28	B21122168-007B :0106HP4 , \$HC-8015-DRO-W, SGT	G:\Org\HP4\Methods\DR_8015-010628-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\Methods\DS_8015-T-OJ-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.29	B21122168-001DMS :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_8015-C24-OJ-L%.met	1030	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.30	B21122168-001DMSD :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-010630-OJ-L%.met G:\Org\HP4\Methods\DS_8015-C24-OJ-L%.met	1040	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.31	MARKER_0106HP433r, DRO :0106HP4 , DRO211220B	G:\org\HP4\Methods\CSC220106.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.32	CCV_0106HP434r, RRO :0106HP4 , DRO220106A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.33	CCV_0106HP435r, DRO :0106HP4 , DRO220105B	G:\Org\HP4\Methods\DC_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_8015-C24-OJ-L%.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.34	DCM-Baseline Check-V34	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.35	LCS-162648-RRO :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1000	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.36	DCM-Baseline Check-V36	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.37	B21122168-001DMS-RRO :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-C24-OJ-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1020	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.38	DCM-Baseline Check-V38	G:\Org\HP4\Methods\DR_8015-OH-LEXP.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.39	B21122168-001DMSD-RRO :0106HP4 , SGT	G:\Org\HP4\Methods\DR_8015-010639-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1050	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.40	MARKER_0106HP440r, DRO :0106HP4 , DRO211220B	G:\org\HP4\Methods\CSC220106.met	1	1	1	1	0
	G:\org\HP4\DAT\HP4010622_b\0106HP4.41	CCV_0106HP441r, RRO :0106HP4 , DRO220106A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP402r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0002.RAW
 Date & Time Acquired: 1/5/2022 7:47:16 AM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.758	500.	395.027	79.01	-

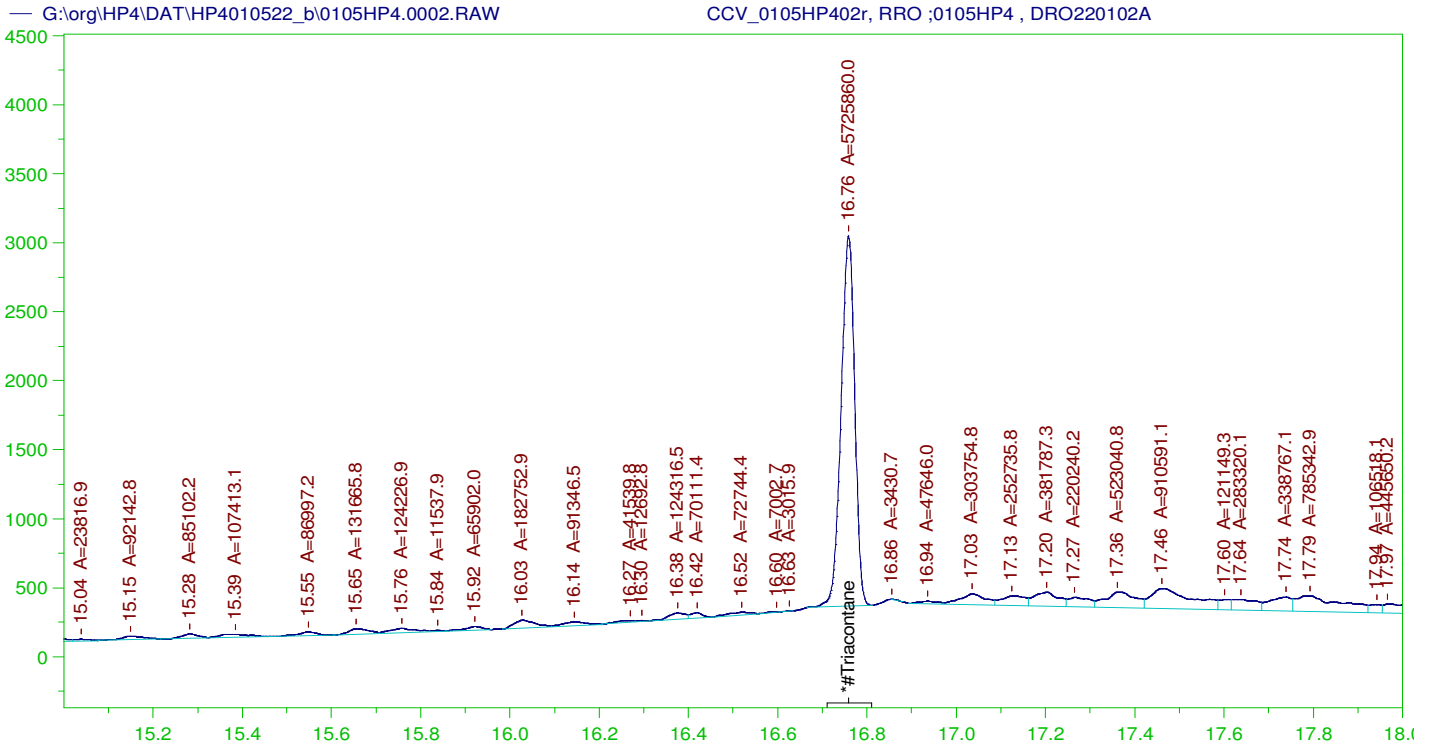
RRO TEH (Oil Range) Area:1.109155E+08 RRO TEH (Oil Range) AMOUNT: 4521.706

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0002.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.758	200.	395.027	197.51	75-125

AMN 01/25/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP402r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0002.RAW
 Date & Time Acquired: 1/5/2022 7:47:16 AM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

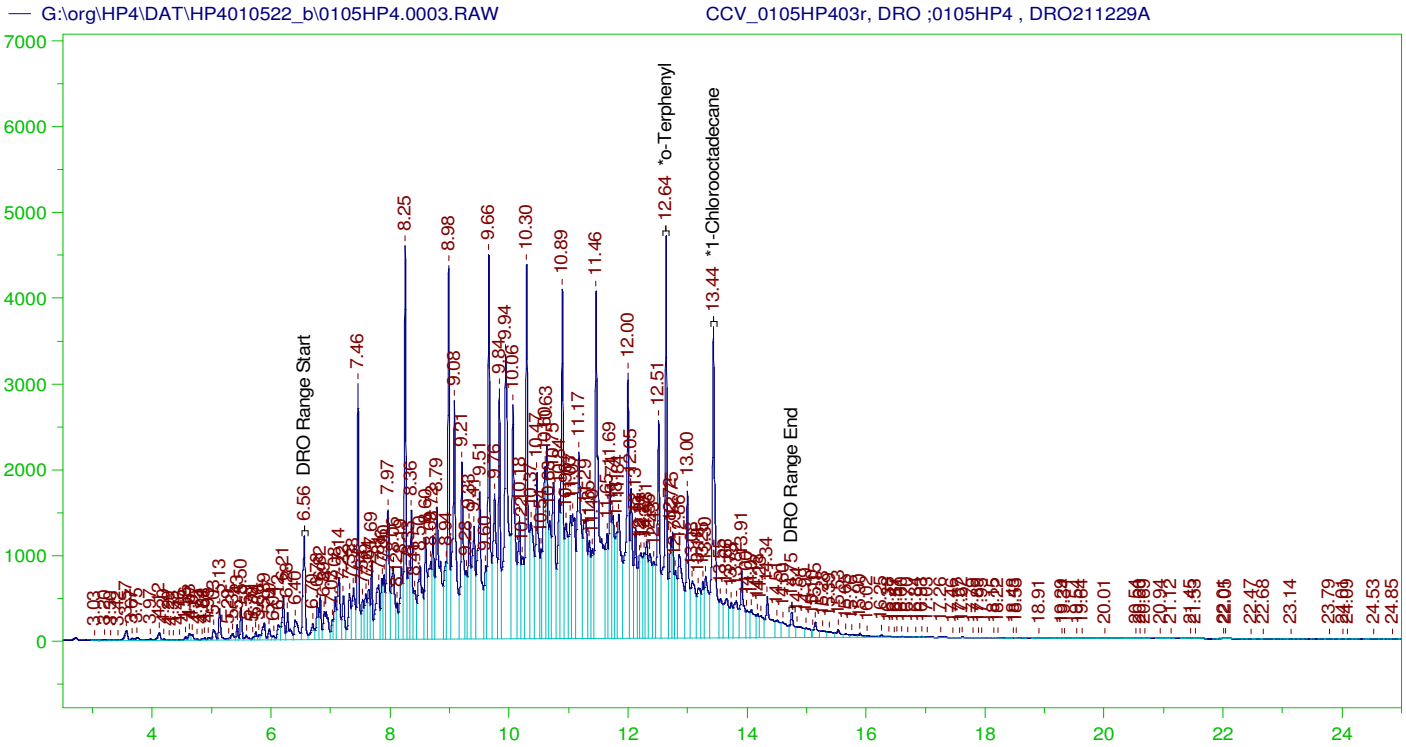
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.758	500.	229.275	45.85

RRO Area:1.055735E+07 RRO AMOUNT: 430.3931

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0002.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.758	200.	229.275	114.64	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0105HP403r, DRO ;0105HP4 , DRO211229A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0003.RAW
 Date & Time Acquired: 1/5/2022 8:32:25 AM
 Method File: G:\Org\HP4\methods\DC_8015-C24-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.639	200.	368.416	184.21
*1-Chlorooctadecane	13.435	200.	366.998	183.5

DRO Area: 4.373718E+08 DRO Amount: 14890.13
 TEH Area: 4.53699E+08 TEH Amount: 15445.98

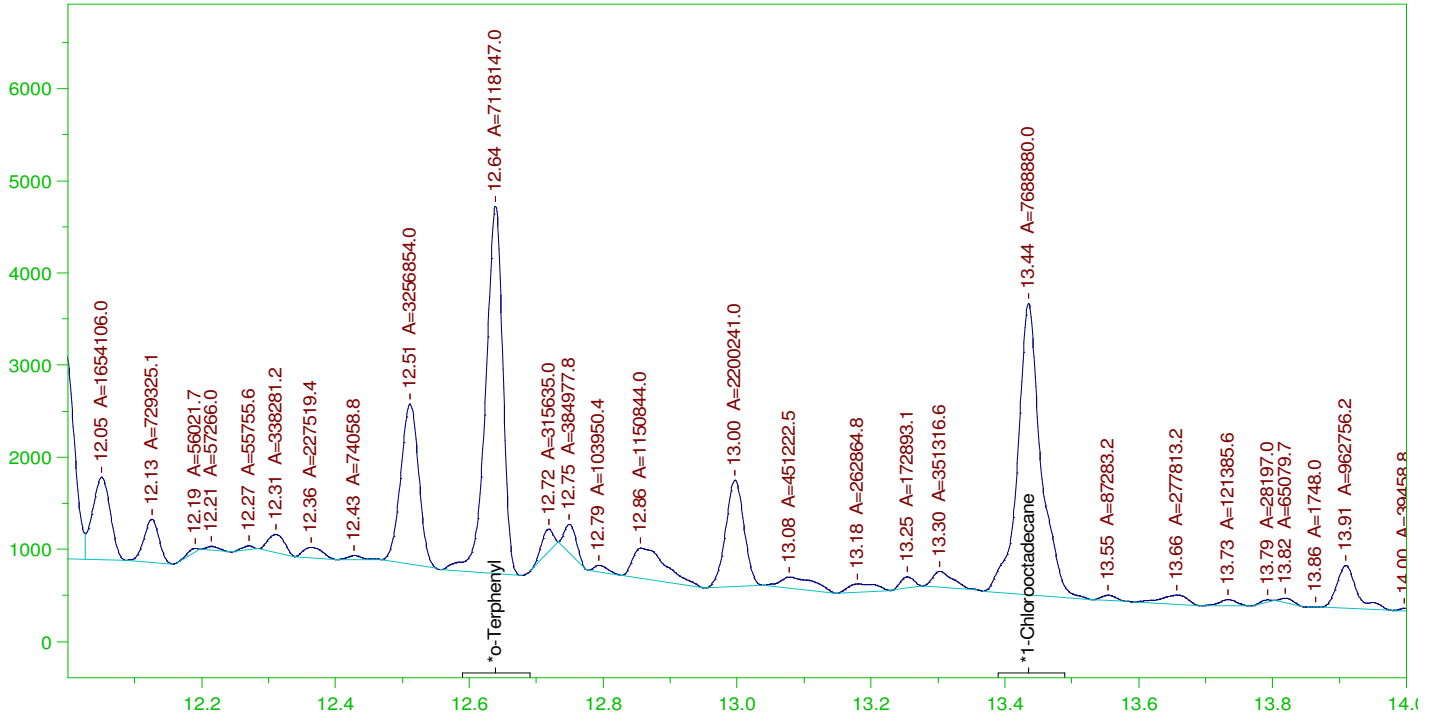
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15445.98	102.97	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.639	200.	368.416	184.21	85-115
*1-Chlorooctadecane	13.435	200.	366.998	183.5	85-115

G:\org\HP4\DAT\HP4010522_b\0105HP4.0003.RAW

CCV_0105HP403r, DRO ;0105HP4 , DRO211229A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0105HP403r, DRO ;0105HP4 , DRO211229A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0003.RAW
 Date & Time Acquired: 1/5/2022 8:32:25 AM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

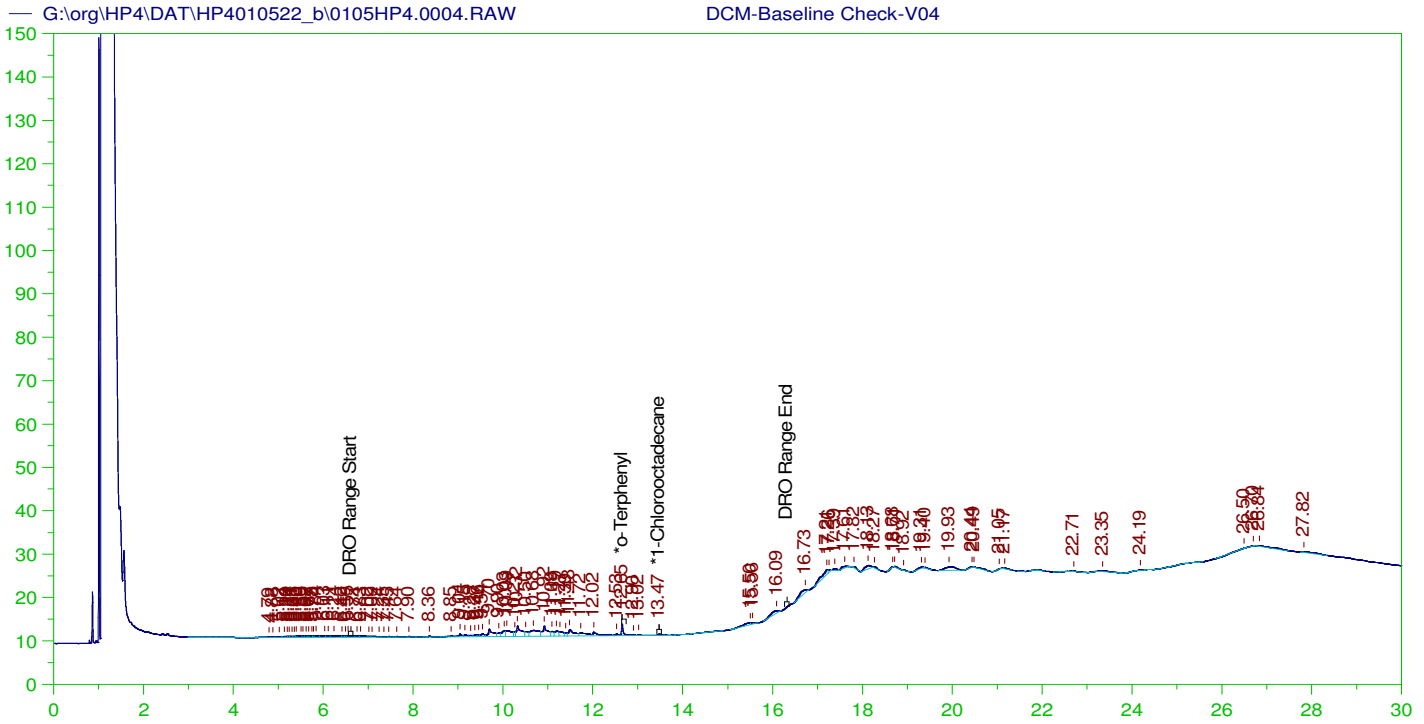
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.639	200.	213.632	106.82
*1-Chlorooctadecane	13.435	200.	230.761	115.38

DRO Area: 1.933121E+08 DRO Amount: 6581.225
 TEH Area: 2.03597E+08 TEH Amount: 6931.368

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	6931.37	46.21	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.639	200.	213.632	106.82	85-115
*1-Chlorooctadecane	13.435	200.	230.761	115.38	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

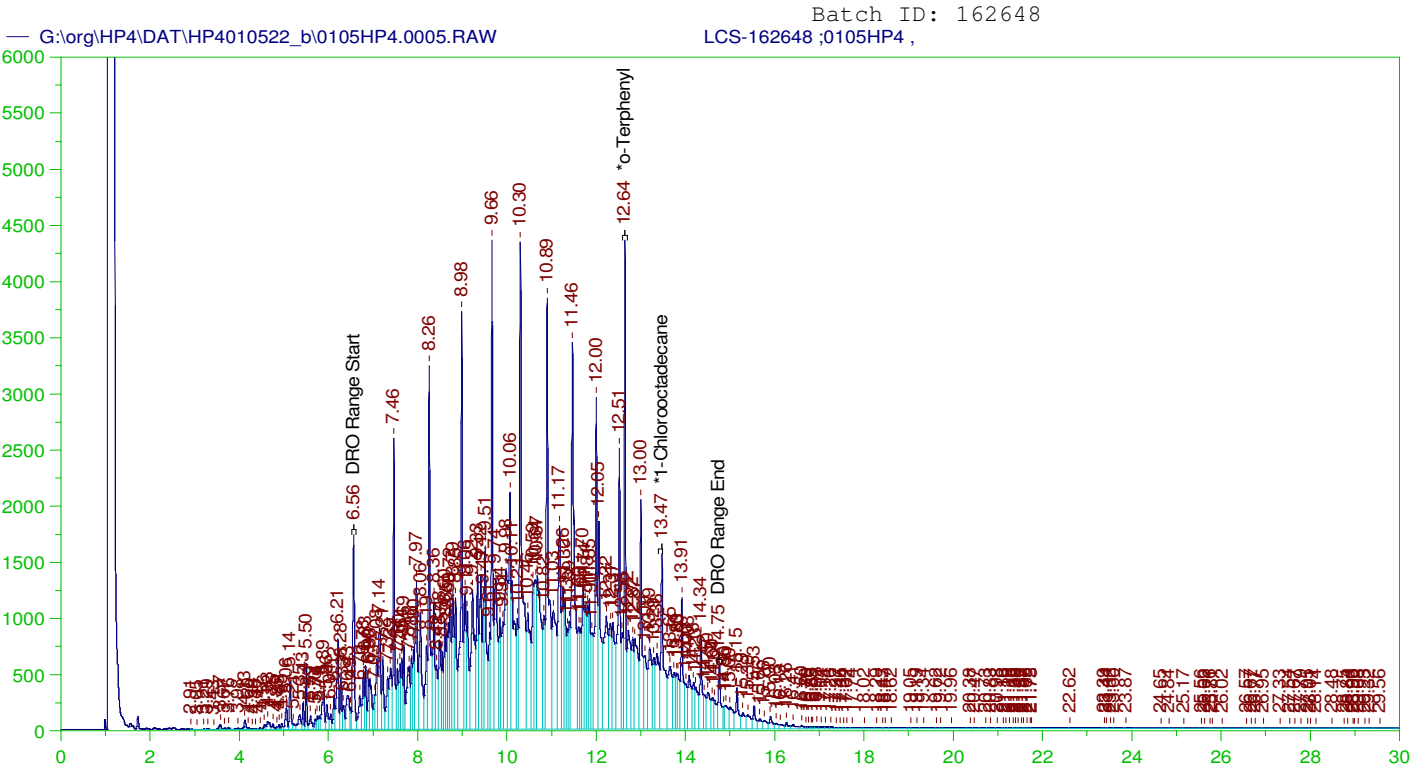
Sample Name: DCM-Baseline Check-V04
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 Date & Time Acquired: 1/5/2022 9:17:32 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.65	200.	.272	.14	-
*1-Chlorooctadecane	13.473	200.	.042	.02	-

DRO Area:208650 DRO Amount: 7.103395
 TEH Area:329387.8 TEH Amount: 11.21386



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-162648 ;0105HP4 ,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0005.RAW
 Date & Time Acquired: 1/5/2022 10:02:45 AM
 Method File: G:\Org\HP4\methods\D3_8015-C24-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

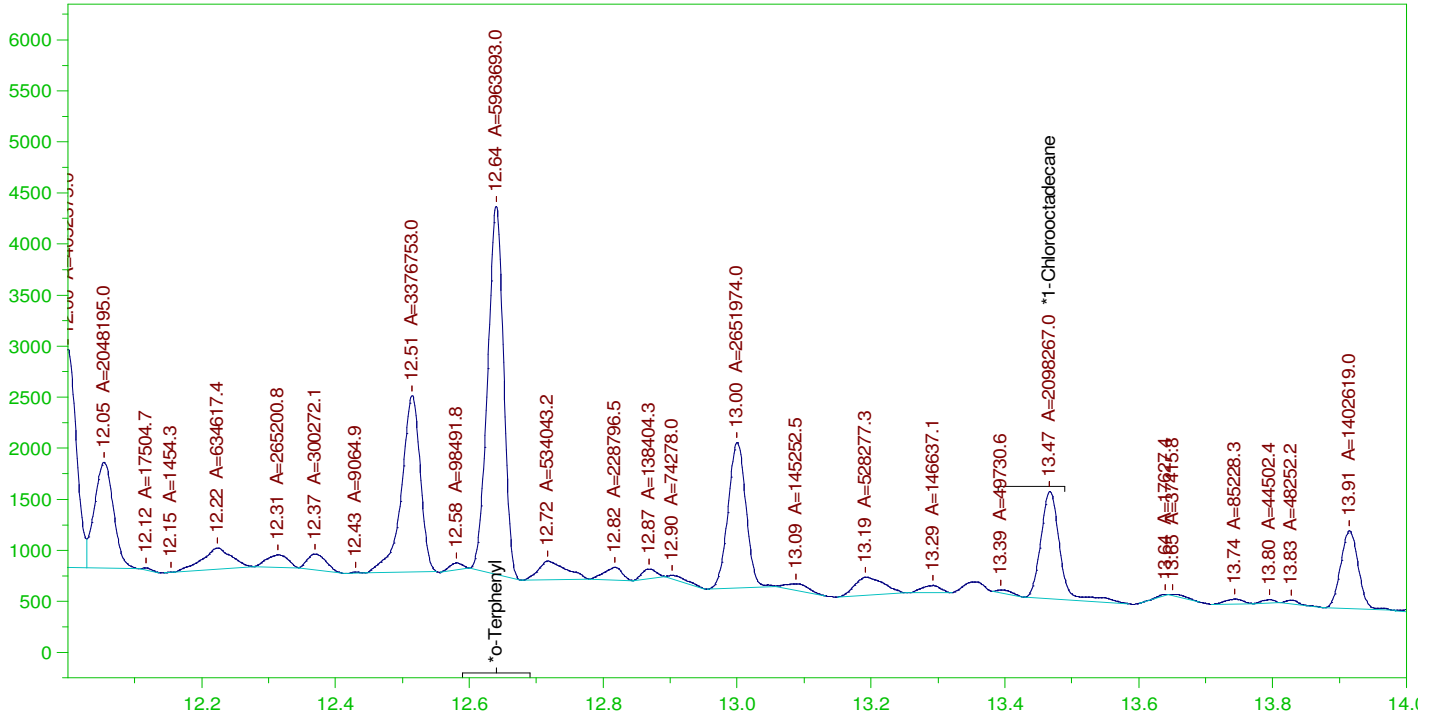
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.64	.2	.285	142.25	-
*1-Chlorooctadecane	13.467	.2	.206	103.	-

DRO Area: 4.037941E+08 DRO Amount: 13.74699
 TEH Area: 4.341812E+08 TEH Amount: 14.7815

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0005.RAW

LCS-162648 ;0105HP4 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

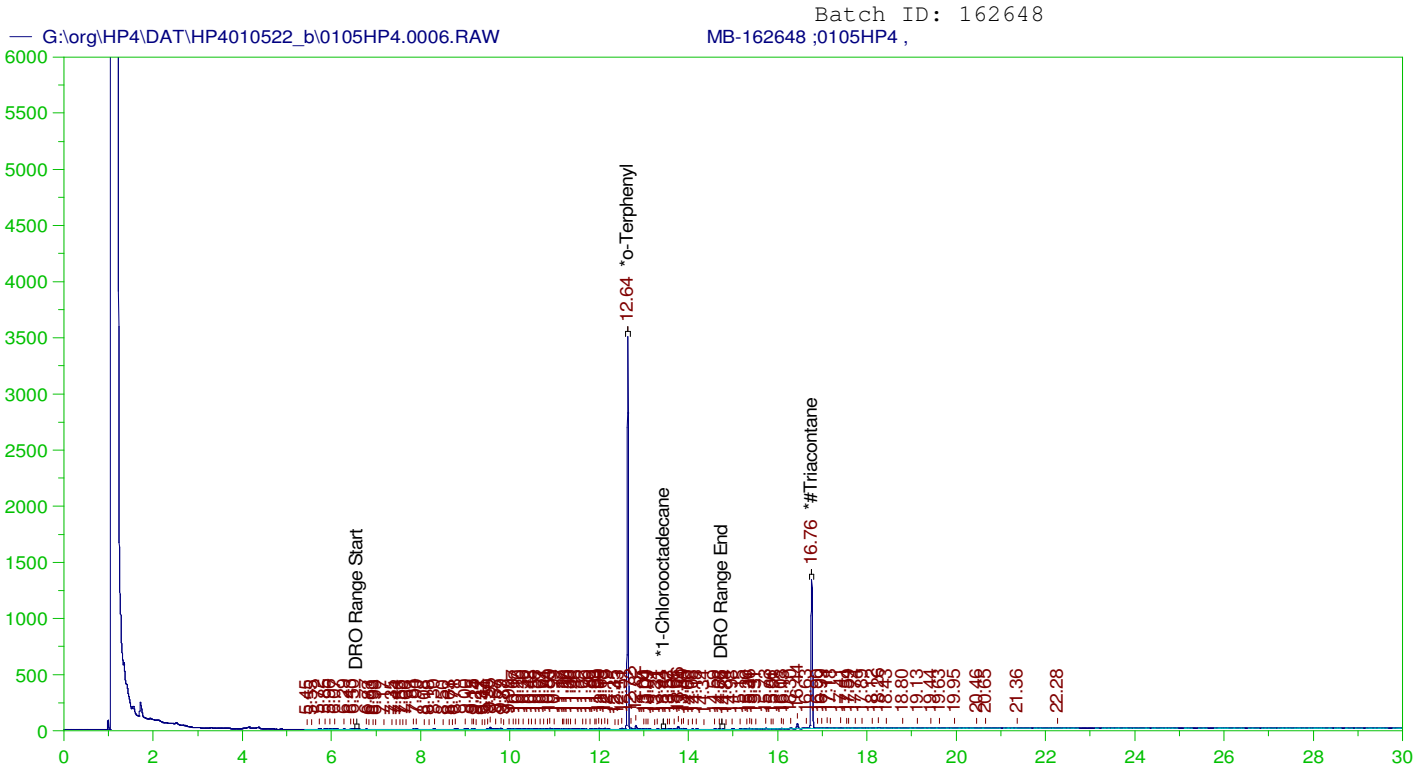
Sample Name: LCS-162648 ;0105HP4 ,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0005.RAW
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 Method File: G:\Org\HP4\methods\DS_8015-C24-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.64	.2	.179	89.49
*1-Chlorooctadecane	13.467	.2	.063	31.49

DRO Area:1.691462E+08 DRO Amount: 5.758508
 TEH Area:1.841146E+08 TEH Amount: 6.268099



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

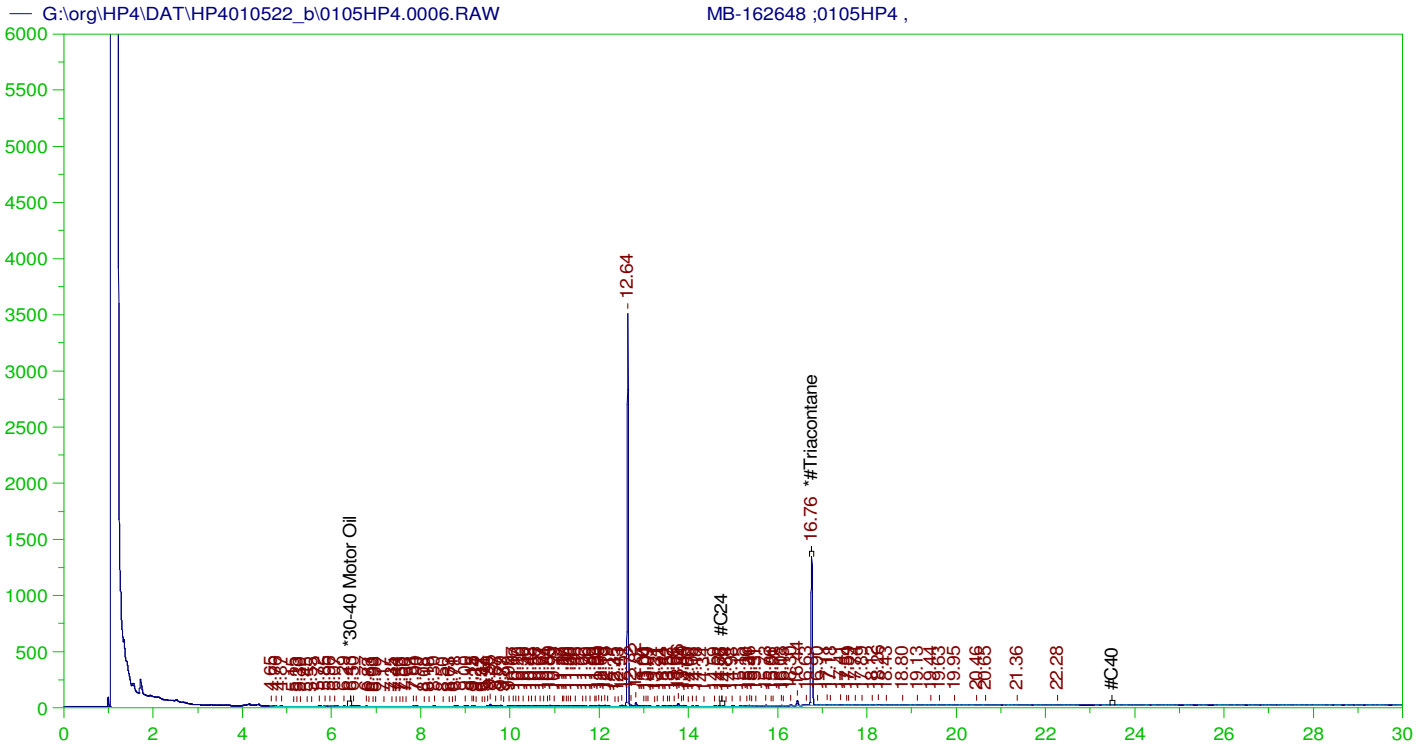
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 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0006.RAW
 Date & Time Acquired: 1/5/2022 10:47:39 AM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.636	.2	.182	90.87 -
*1-Chlorooctadecane	13.436	.2	.14	-
*#Triacontane	16.759	.2	.115	57.27 -

DRO Area:879777.2 DRO Amount: 2.995162E-02
 TEH Area:1269808 TEH Amount: 4.323005E-02



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-162648 ;0105HP4 ,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0006.RAW
 Date & Time Acquired: 1/5/2022 10:47:39 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.71 to 23.55

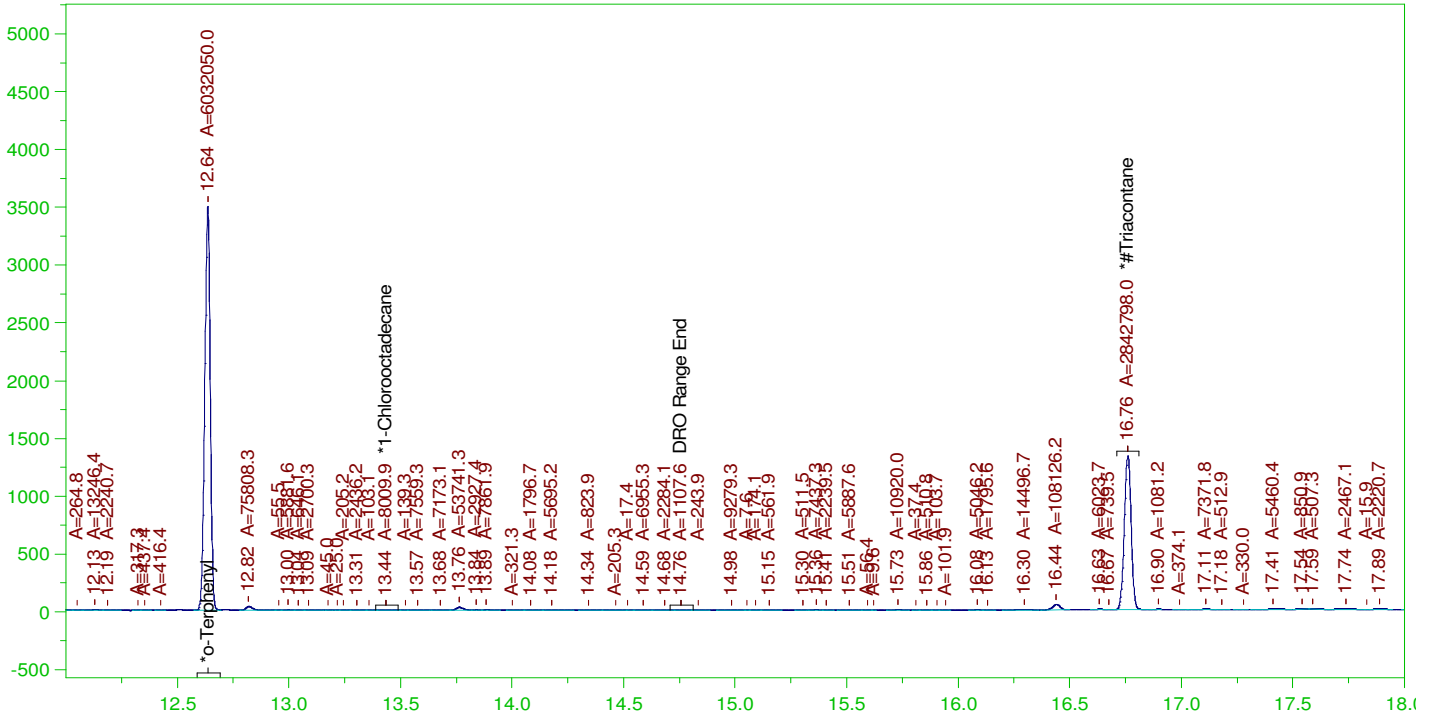
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.759	.5	.114	22.8

RRO Area:257586.4 RRO AMOUNT: 1.050106E-02

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0006.RAW

MB-162648 ;0105HP4 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-162648 ;0105HP4 ,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0006.RAW
Date & Time Acquired: 1/5/2022 10:47:39 AM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.2	.181	90.52	-
*1-Chlorooctadecane	13.436	.2	.12		-
*Triacontane	16.759	.2	.114	56.92	-

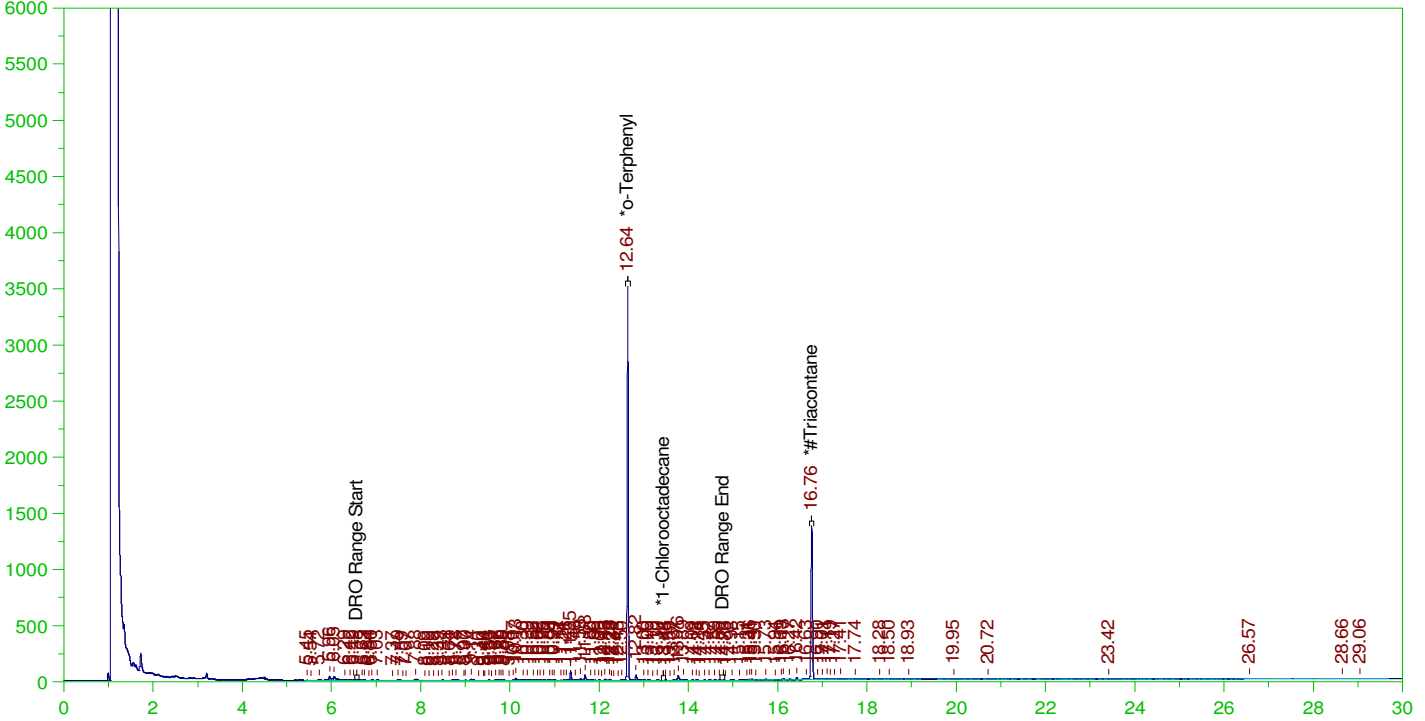
DRO Area: 619908 DRO Amount: 2.110449E-02
TEH Area: 1217911 TEH Amount: 4.146324E-02

ERH2293 (OWDFMW01)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0007.RAW

B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0007.RAW
Date & Time Acquired: 1/5/2022 11:33:04 AM
Method File: G:\Org\HP4\methods\DR_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.196	.18	91.66	-
*1-Chlorooctadecane	13.441	.196	.	.02	-
*#Triacontane	16.76	.196	.114	58.11	-

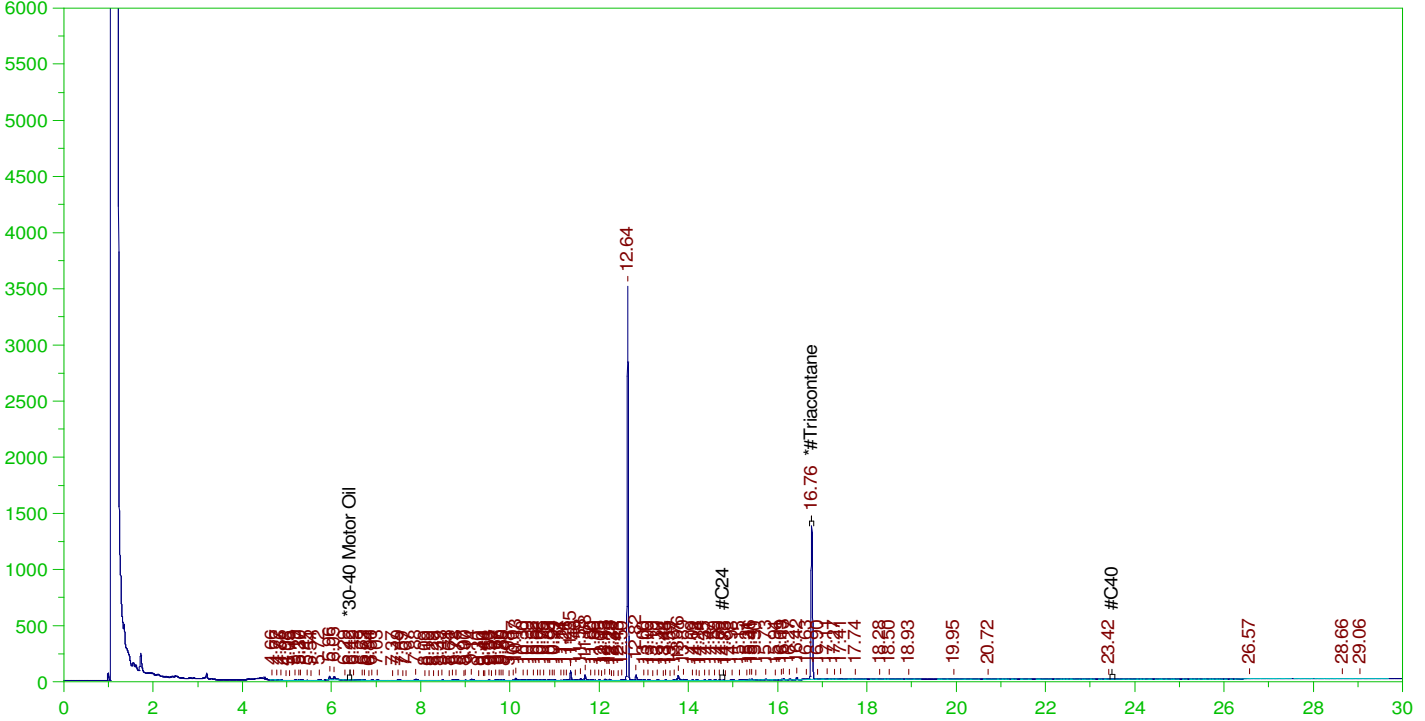
DRO Area:1140838 DRO Amount: 3.807775E-02
TEH Area:1732278 TEH Amount: 5.781826E-02

ERH2293 (OWDFMW01)

G:\org\HP4\DAT\HP4010522_b\0105HP4.0007.RAW

Batch ID: 162648

B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0007.RAW
Date & Time Acquired: 1/5/2022 11:33:04 AM
Method File: G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.76	.49	.114	23.19

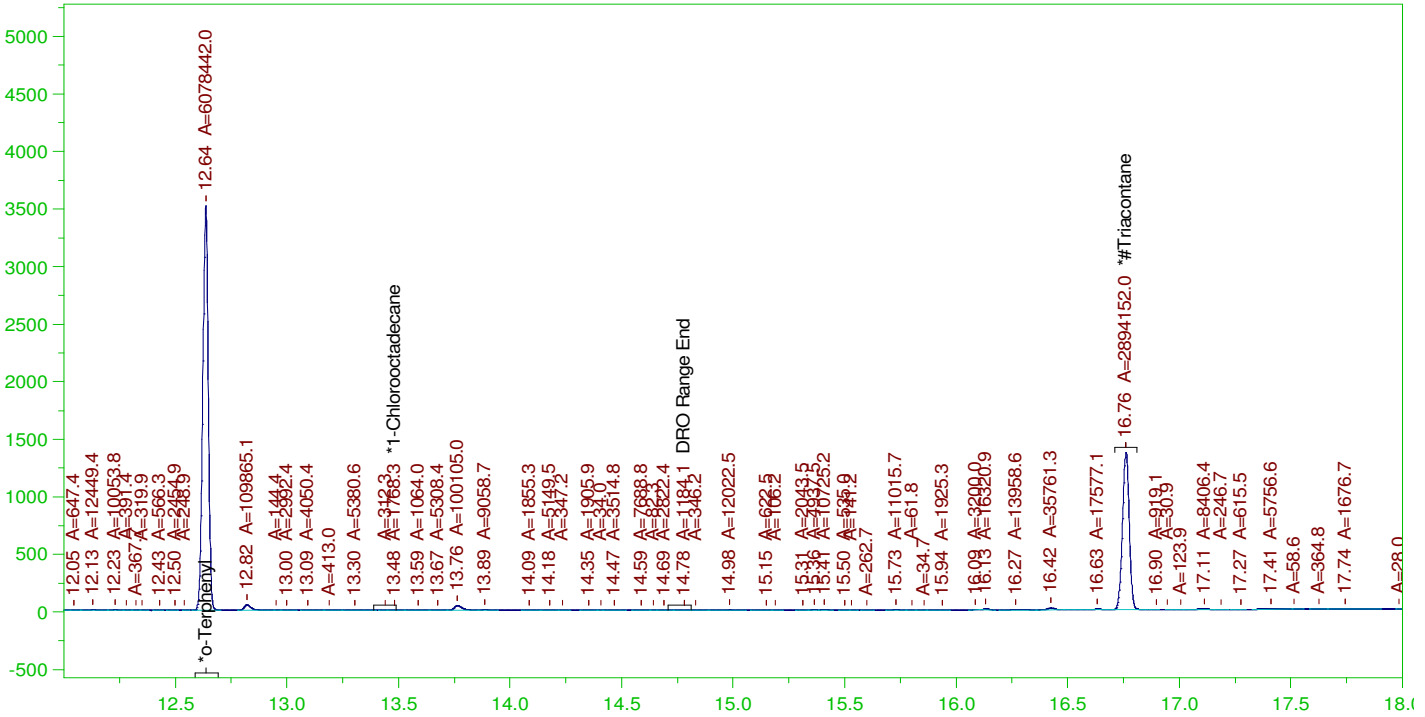
RRO Area:201904.5 RRO AMOUNT: 8.069673E-03

ERH2293 (OWDFMW01)

Batch ID: 162648

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B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122211-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0007.RAW
Date & Time Acquired: 1/5/2022 11:33:04 AM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.196	.179	91.21	-
*1-Chlorooctadecane	13.484	.196	.	.03	-
*#Triacontane	16.76	.196	.114	57.94	-

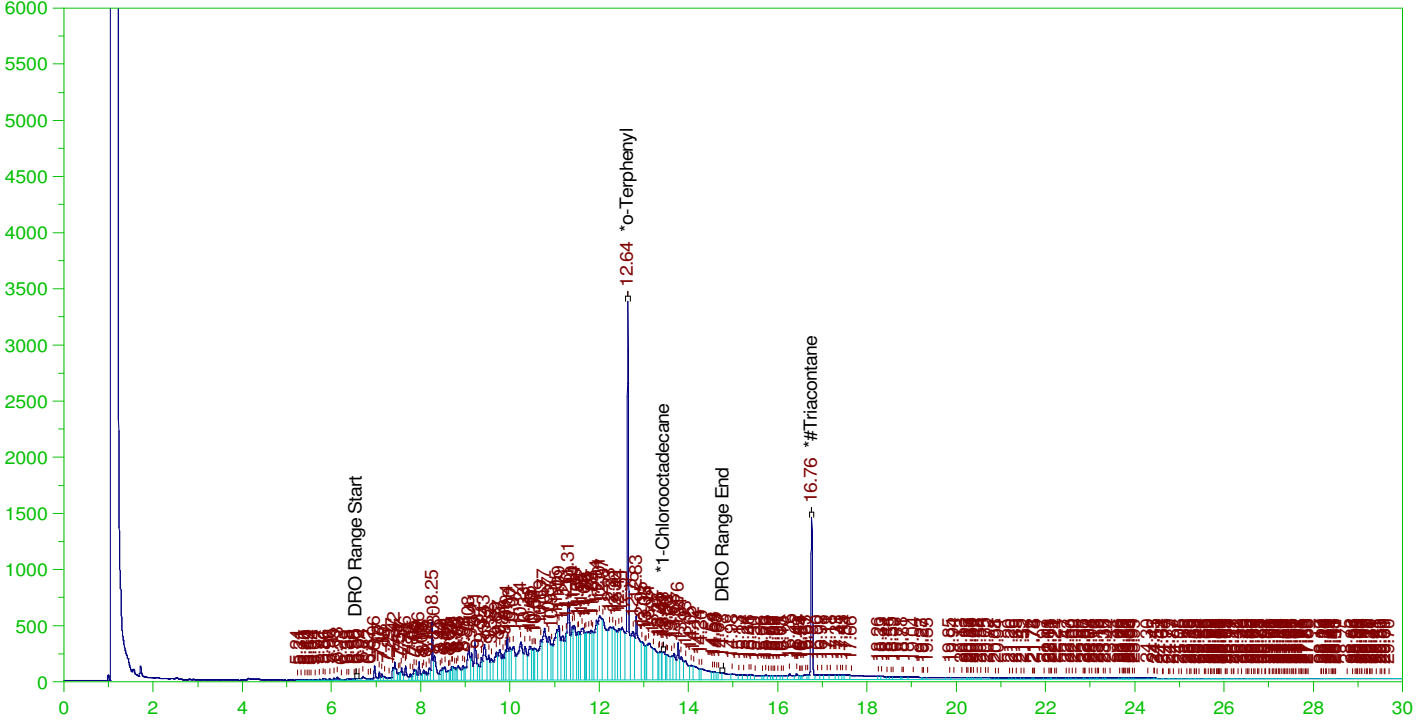
DRO Area: 919422.5 DRO Amount: 3.068757E-02
TEH Area: 2020014 TEH Amount: 6.742201E-02

ERH2281 (RHMW02)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0008.RAW

B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0008.RAW
Date & Time Acquired: 1/5/2022 12:18:32 PM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.637	.196	.231	117.6	-
*1-Chlorooctadecane	13.433	.196	.03	15.37	-
*#Triacontane	16.758	.196	.128	65.08	-

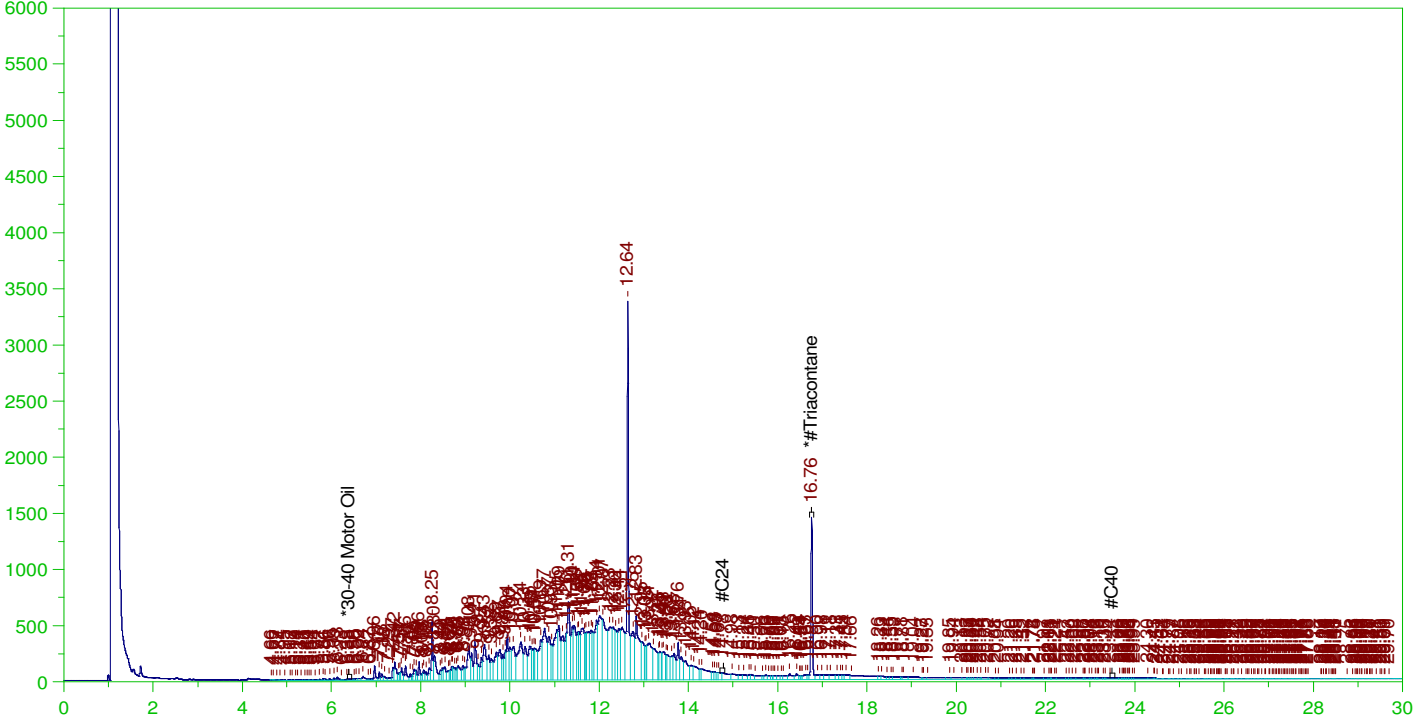
DRO Area:1.085609E+08 DRO Amount: 3.623437
TEH Area:1.21495E+08 TEH Amount: 4.055141

ERH2281 (RHMW02)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0008.RAW

B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0008.RAW
Date & Time Acquired: 1/5/2022 12:18:32 PM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.758	.49	.128	26.03	-

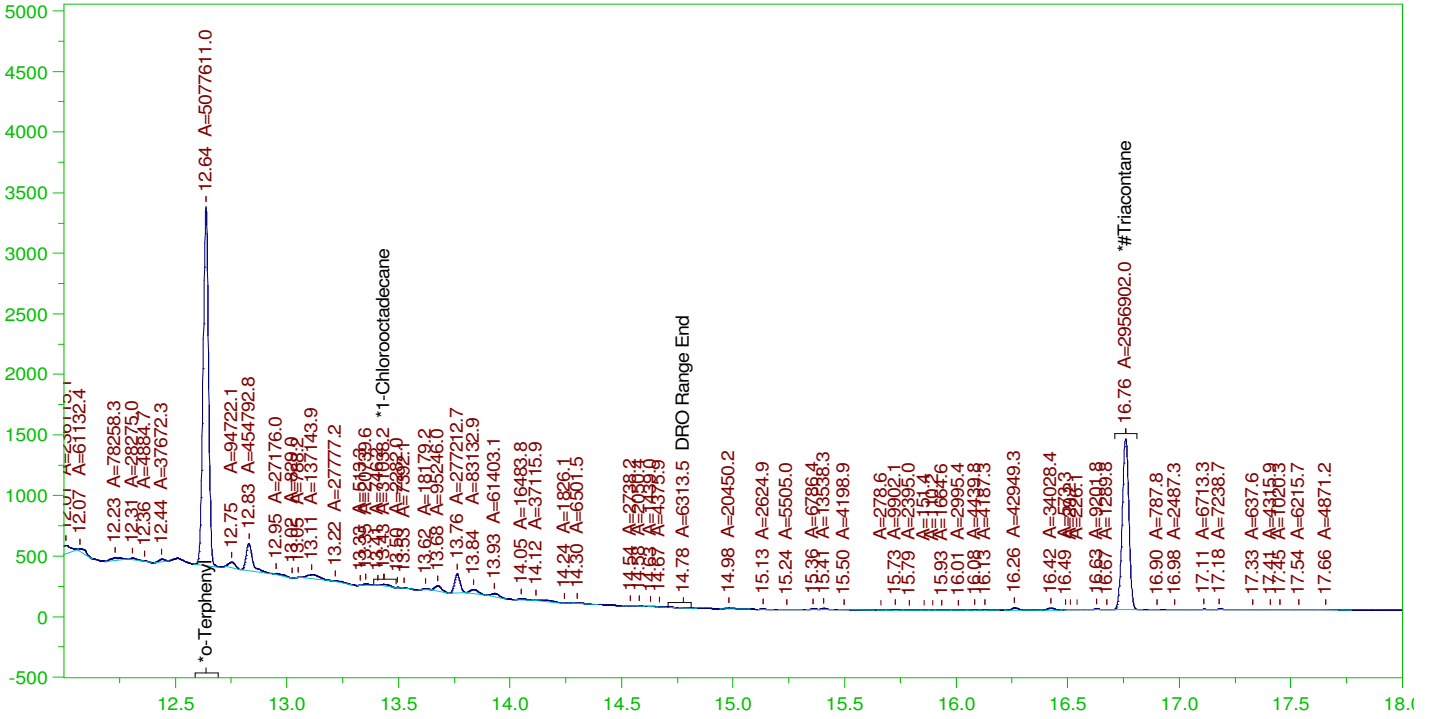
RRO Area:1.199368E+07 RRO AMOUNT: 0.4793606

ERH2281 (RHMW02)

Batch ID: 162648

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B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122190-001D ;0105HP4 , \$HC-8015-DRO-W,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0008.RAW
 Date & Time Acquired: 1/5/2022 12:18:32 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.637	.196	.149	76.2
*1-Chlorooctadecane	13.433	.196	.001	.47
*#Triacontane	16.758	.196	.116	59.2

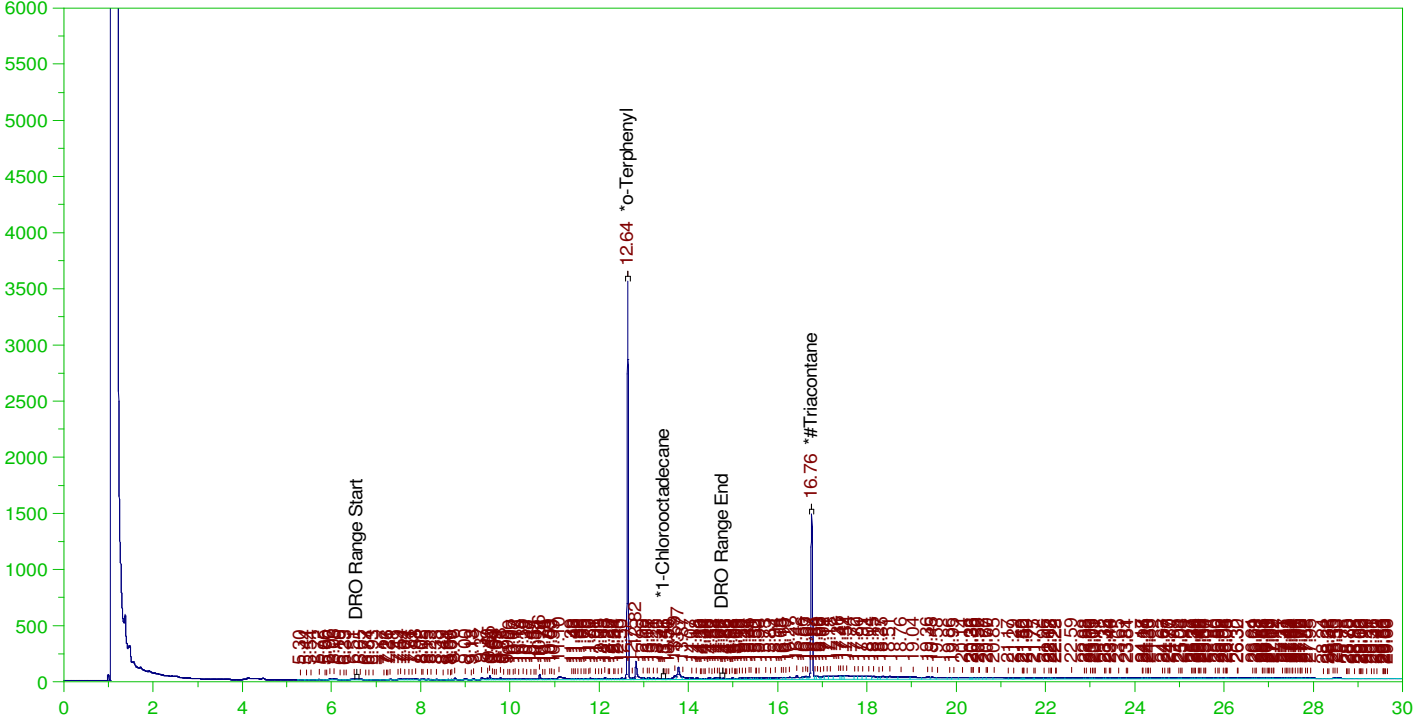
DRO Area: 1.965417E+07 DRO Amount: 0.6559973
 TEH Area: 2.042781E+07 TEH Amount: 0.6818193

ERH2319 (RHMW06)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0009.RAW

B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0009.RAW
Date & Time Acquired: 1/5/2022 1:04:09 PM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.194	.179	91.96	-
*1-Chlorooctadecane	13.432	.194	.001	.3	-
*#Triacontane	16.758	.194	.126	64.96	-

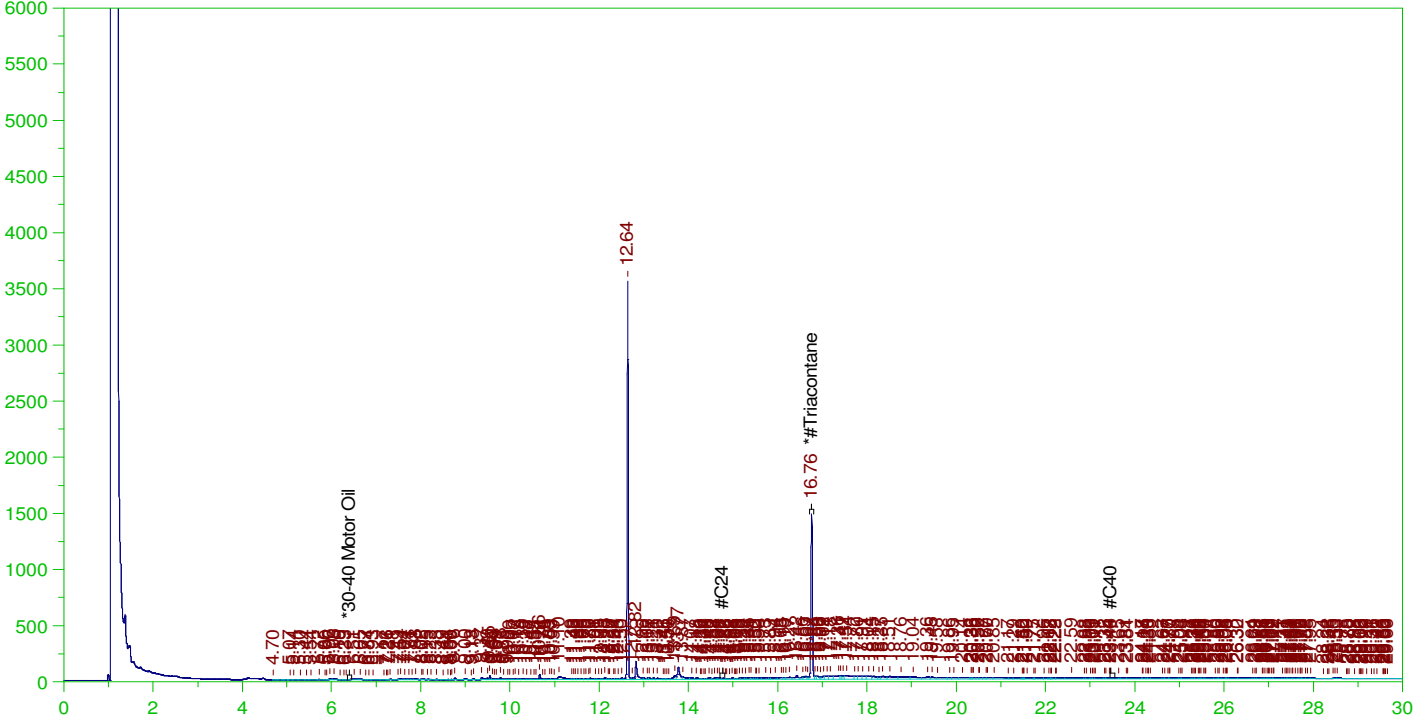
DRO Area:4713242 DRO Amount: 0.1557866
TEH Area:1.472224E+07 TEH Amount: 0.4866137

ERH2319 (RHMW06)

G:\org\HP4\DAT\HP4010522_b\0105HP4.0009.RAW

Batch ID: 162648

B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0009.RAW
Date & Time Acquired: 1/5/2022 1:04:09 PM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane_____	16.758	.485	.126	25.99	-

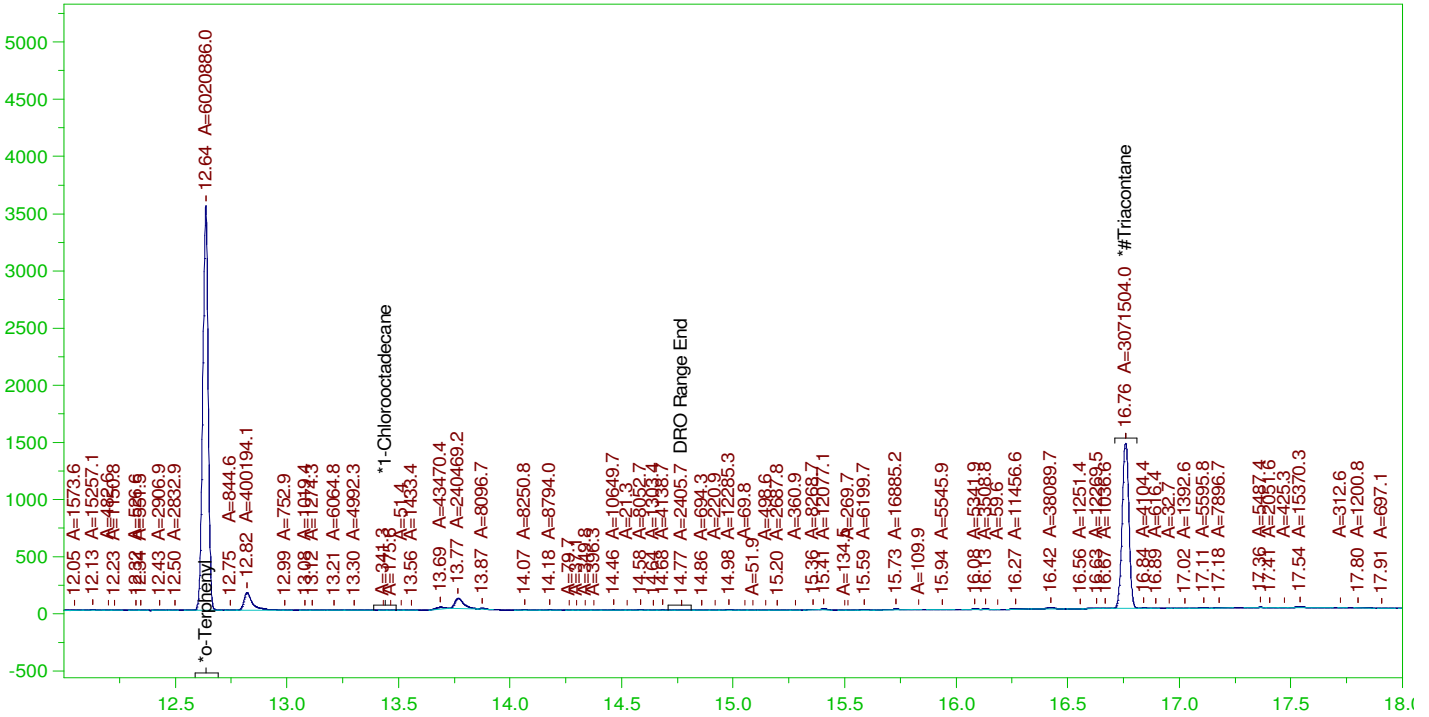
RRO Area:8529997 RRO AMOUNT: 0.3376151

ERH2319 (RHMW06)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0009.RAW

B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

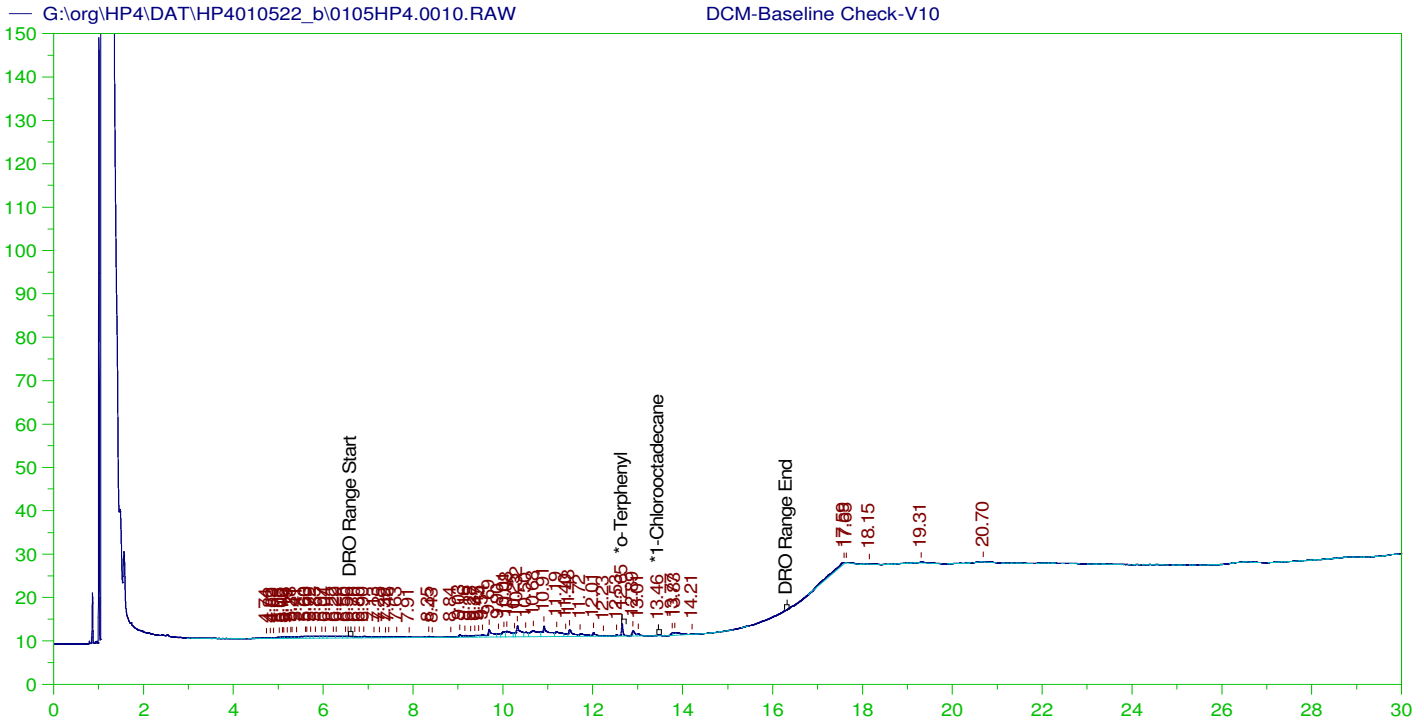
Sample Name: B21122198-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0009.RAW
Date & Time Acquired: 1/5/2022 1:04:09 PM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.636	.194	.175	90.35
*1-Chlorooctadecane	29.962	.194	.	-
*#Triacontane	16.758	.194	.119	61.49

DRO Area:2108275 DRO Amount: 6.968474E-02
TEH Area:3082743 TEH Amount: 0.1018938



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V10
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0010.RAW
 Date & Time Acquired: 1/5/2022 1:49:30 PM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.65	200.	.246	.12	-
*1-Chlorooctadecane	13.456	200.	.045	.02	-

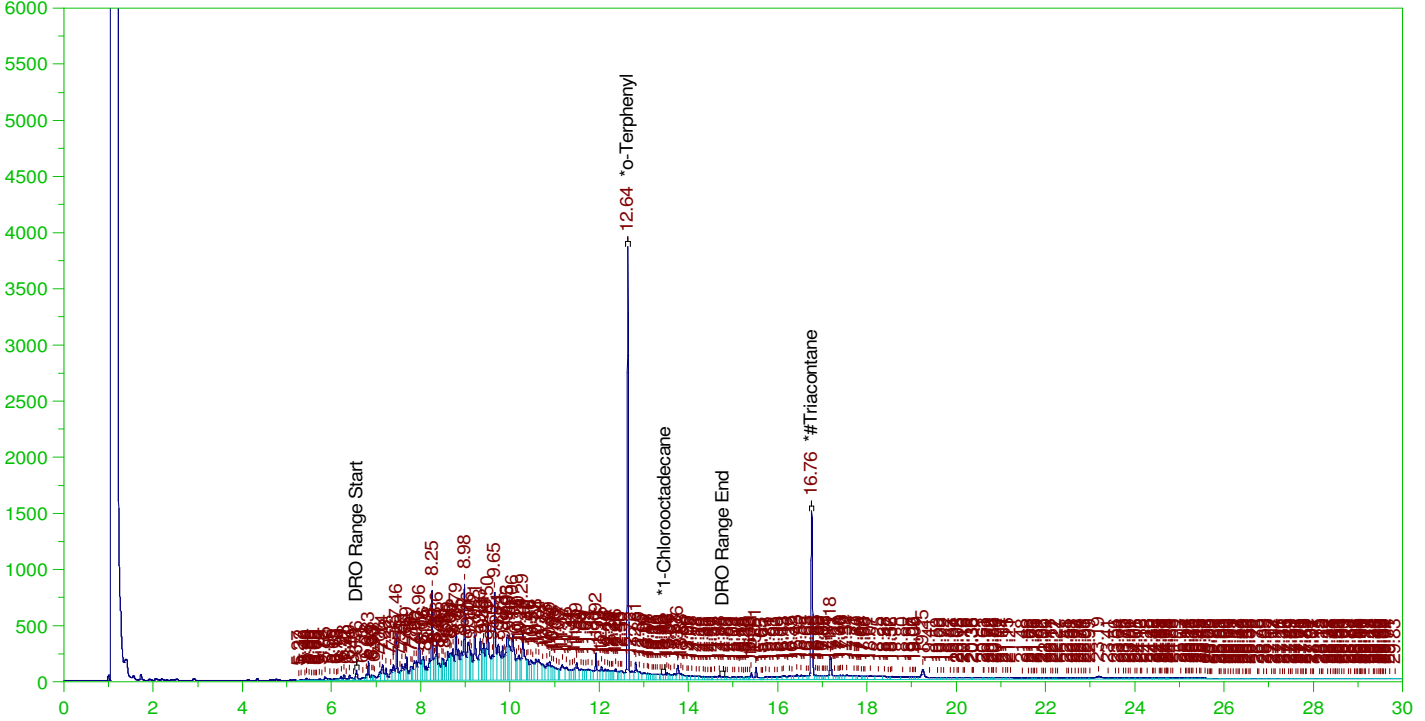
DRO Area:196267.7 DRO Amount: 6.681846
 TEH Area:268860.5 TEH Amount: 9.153234

ERH2291 (Sump Adit3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0011.RAW

B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0011.RAW
Date & Time Acquired: 1/5/2022 2:34:32 PM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.637	.194	.201	103.57	-
*1-Chlorooctadecane	13.463	.194	.004	1.9	-
*#Triacontane	16.76	.194	.129	66.57	-

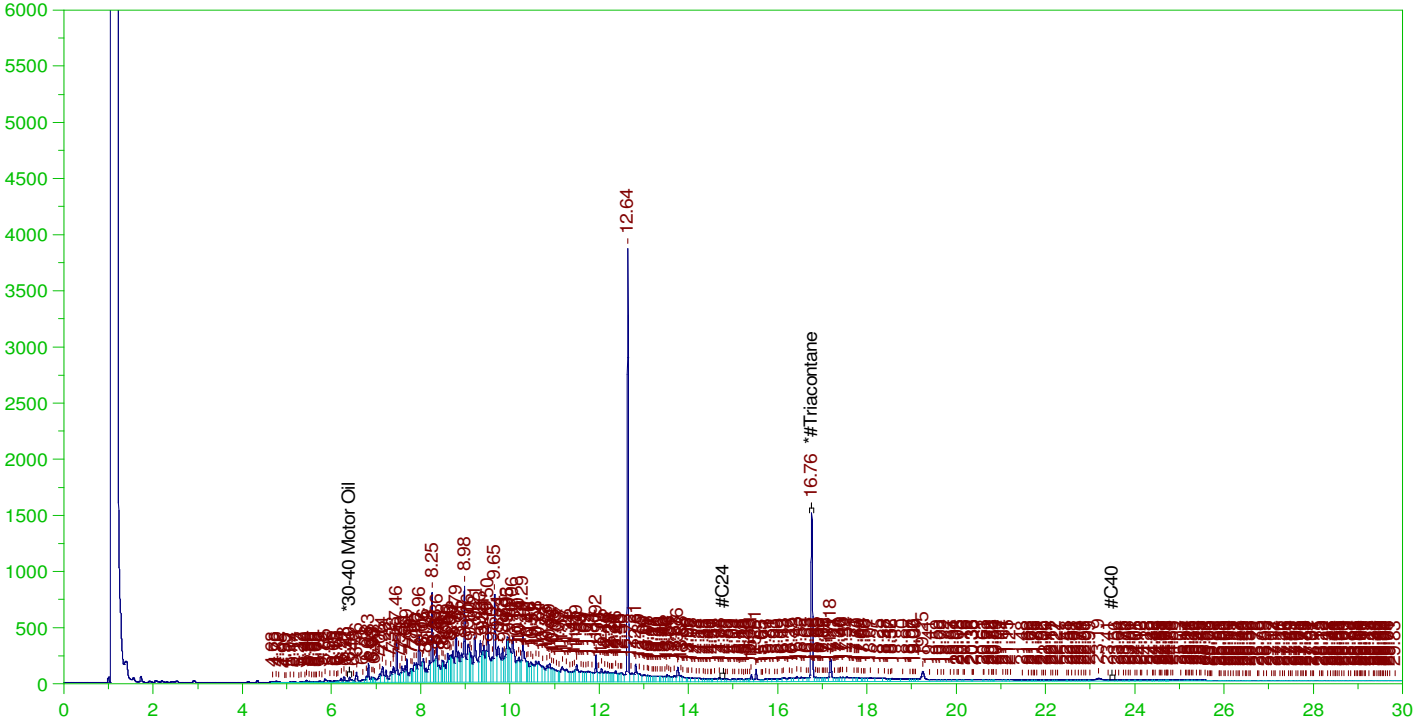
DRO Area: 6.357258E+07 DRO Amount: 2.101262
TEH Area: 7.756957E+07 TEH Amount: 2.563904

ERH2291 (Sump Adit3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0011.RAW

B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0011.RAW
Date & Time Acquired: 1/5/2022 2:34:32 PM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.76	.485	.129	26.63	-

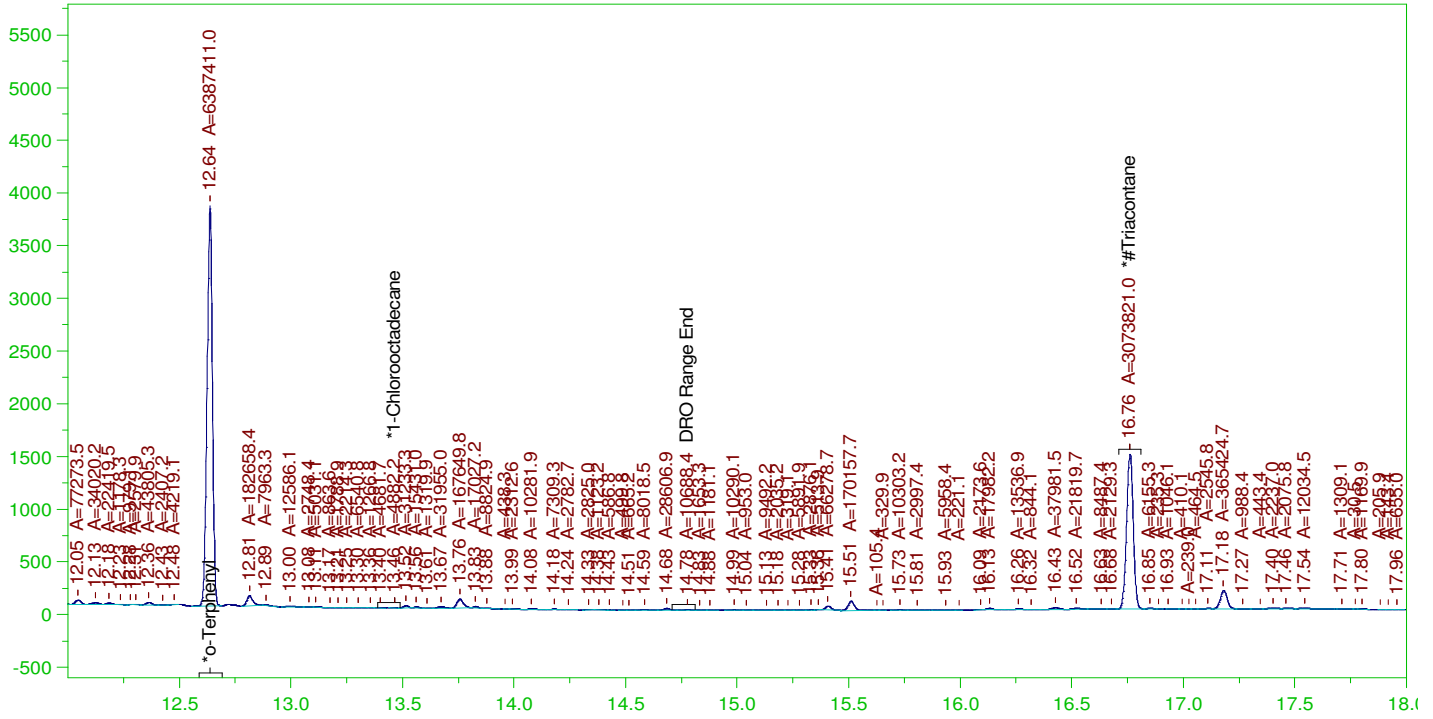
RRO Area:1.196344E+07 RRO AMOUNT: 0.47351

ERH2291 (Sump Adit3)

G:\Org\HP4\DAT\HP4010522_b\0105HP4.0011.RAW

Batch ID: 162648

B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122204-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0011.RAW
Date & Time Acquired: 1/5/2022 2:34:32 PM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.637	.194	.186	95.85	-
*1-Chlorooctadecane	13.463	.194	.	.07	-
*#Triacontane	16.76	.194	.119	61.54	-

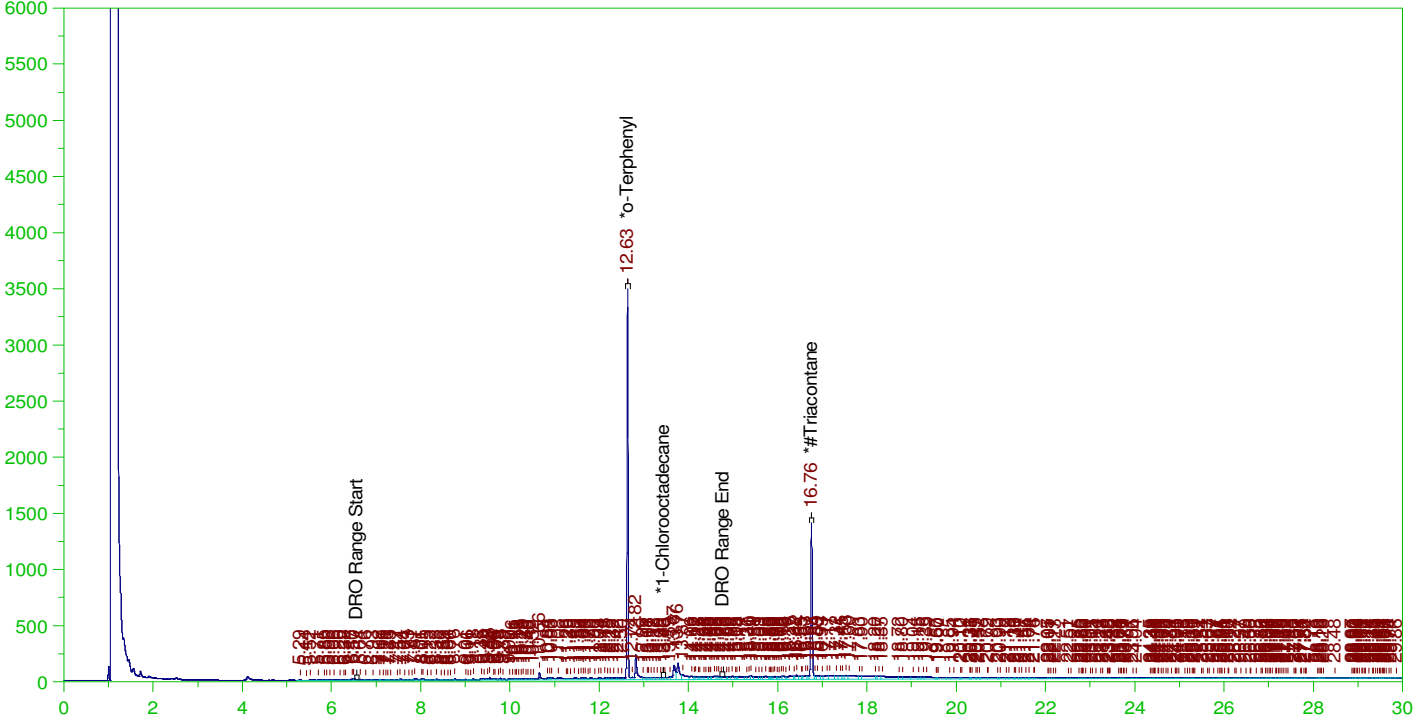
DRO Area: 4.077645E+07 DRO Amount: 1.347782
TEH Area: 4.279459E+07 TEH Amount: 1.414488

ERH2283 (RHMW03)

G:\org\HP4\DAT\HP4010522_b\0105HP4.0012.RAW

Batch ID: 162648

B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0012.RAW
Date & Time Acquired: 1/5/2022 3:20:46 PM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.632	.204	.187	91.87	-
*1-Chlorooctadecane	13.43	.204	.002	1.06	-
*#Triacontane	16.755	.204	.127	62.08	-

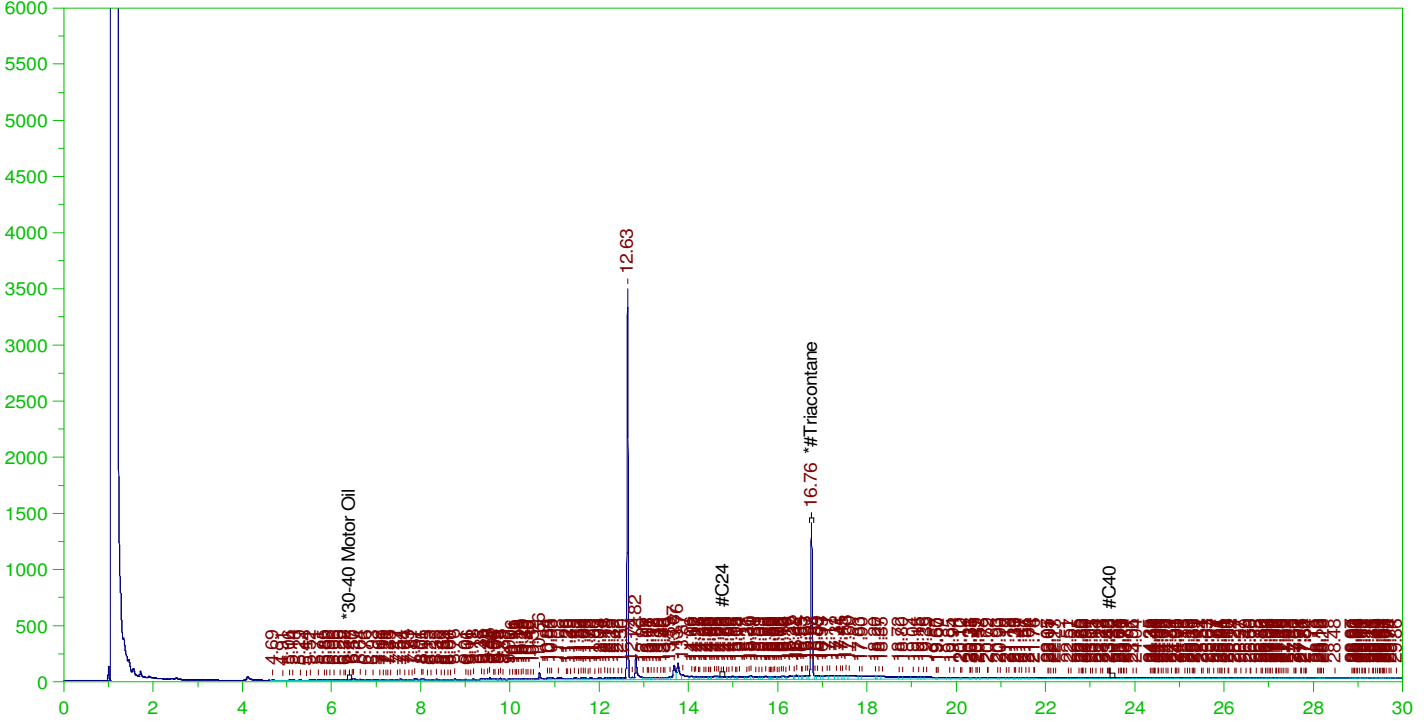
DRO Area:6812206 DRO Amount: 0.2366515
TEH Area:1.851538E+07 TEH Amount: 0.6432119

ERH2283 (RHMW03)

G:\org\HP4\DAT\HP4010522_b\0105HP4.0012.RAW

Batch ID: 162648

B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0012.RAW
Date & Time Acquired: 1/5/2022 3:20:46 PM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.755	.51	.127	24.83	-

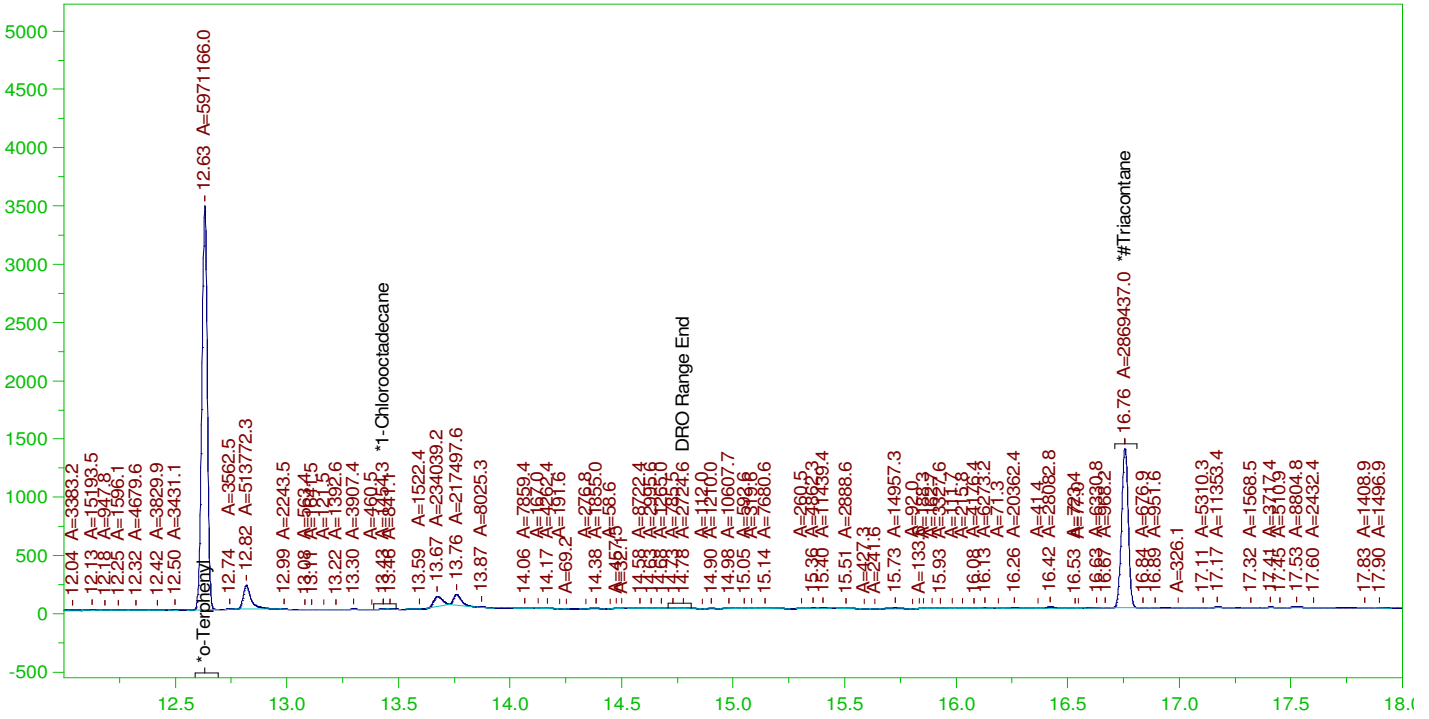
RRO Area:1.042623E+07 RRO AMOUNT: 0.4337218

ERH2283 (RHMW03)

Batch ID: 162648

G:\Org\HP4\DAT\HP4010522_b\0105HP4.0012.RAW

B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122180-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0012.RAW
Date & Time Acquired: 1/5/2022 3:20:46 PM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.632	.204	.183	89.6	-
*1-Chlorooctadecane	13.43	.204	.	.02	-
*#Triacontane	16.755	.204	.117	57.45	-

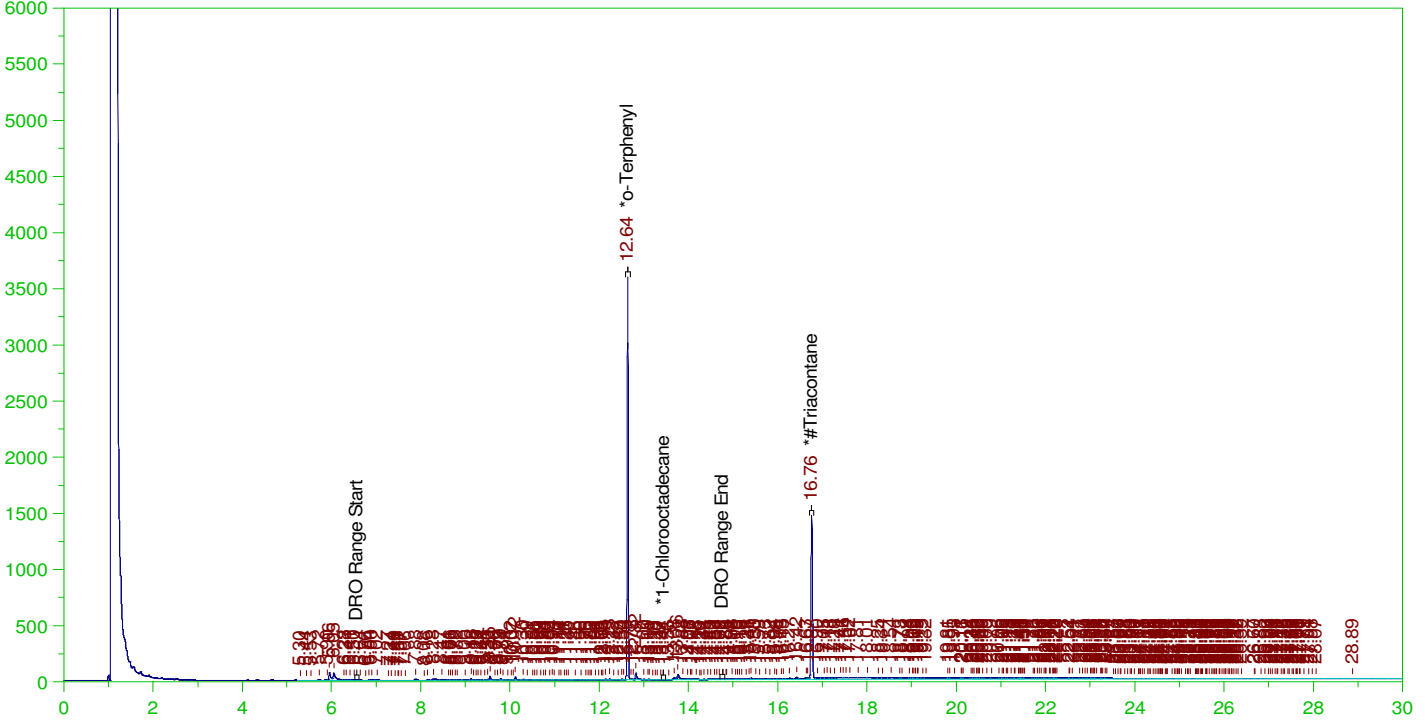
DRO Area:2106155 DRO Amount: 7.316644E-02
TEH Area:2729102 TEH Amount: 9.480719E-02

ERH2276 (RHMW14 Zone3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0013.RAW

B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0013.RAW
Date & Time Acquired: 1/5/2022 4:06:13 PM
Method File: G:\Org\HP4\methods\D3_8015-010513-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.204	.191	93.37	-
*1-Chlorooctadecane	13.436	.204	.	.15	-
*#Triacontane	16.759	.204	.128	62.67	-

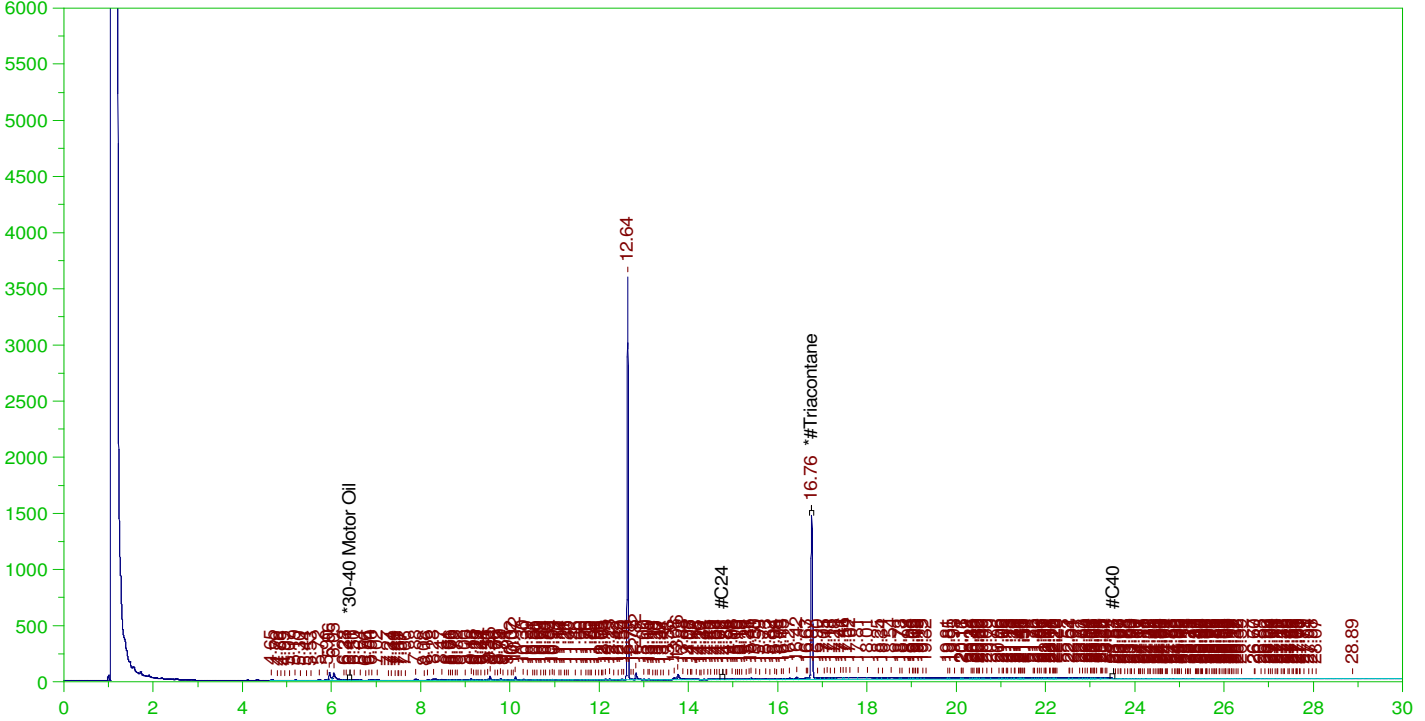
DRO Area:1452894 DRO Amount: 5.047259E-02
TEH Area:7847855 TEH Amount: 0.2726293

ERH2276 (RHMW14 Zone3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0013.RAW

B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0013.RAW
Date & Time Acquired: 1/5/2022 4:06:13 PM
Method File: G:\Org\HP4\Methods\D3_ORO-010513-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.759	.51	.128	25.07	-

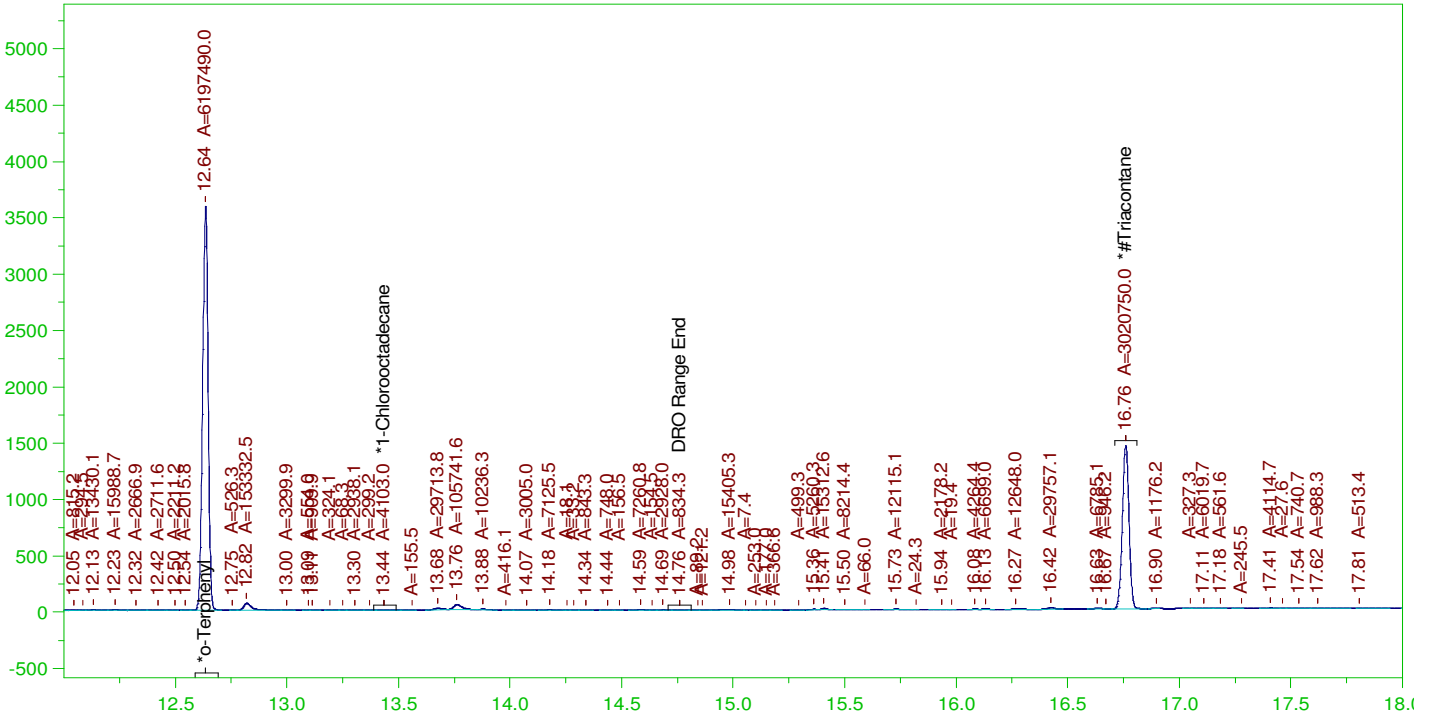
RRO Area:5039337 RRO AMOUNT: 0.209632

ERH2276 (RHMW14 Zone3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0013.RAW

B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

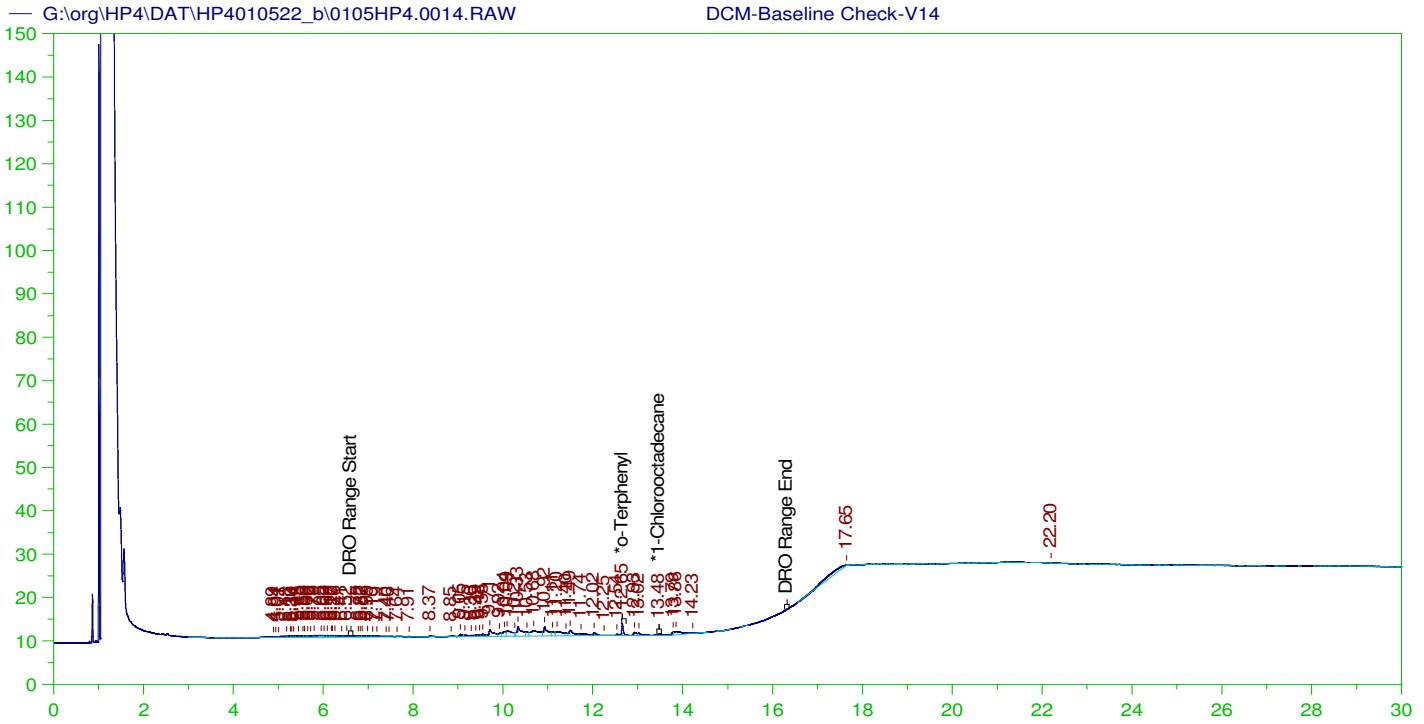
Sample Name: B21122188-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0013.RAW
Date & Time Acquired: 1/5/2022 4:06:13 PM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.204	.19	93.	-
*1-Chlorooctadecane	13.436	.204	.	.06	-
*#Triacontane	16.759	.204	.123	60.48	-

DRO Area:1076191 DRO Amount: 3.738617E-02
TEH Area:1981969 TEH Amount: 6.885228E-02



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V14
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0014.RAW
 Date & Time Acquired: 1/5/2022 4:51:31 PM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.654	200.	.242	.12	-
*1-Chlorooctadecane	13.477	200.	.044	.02	-

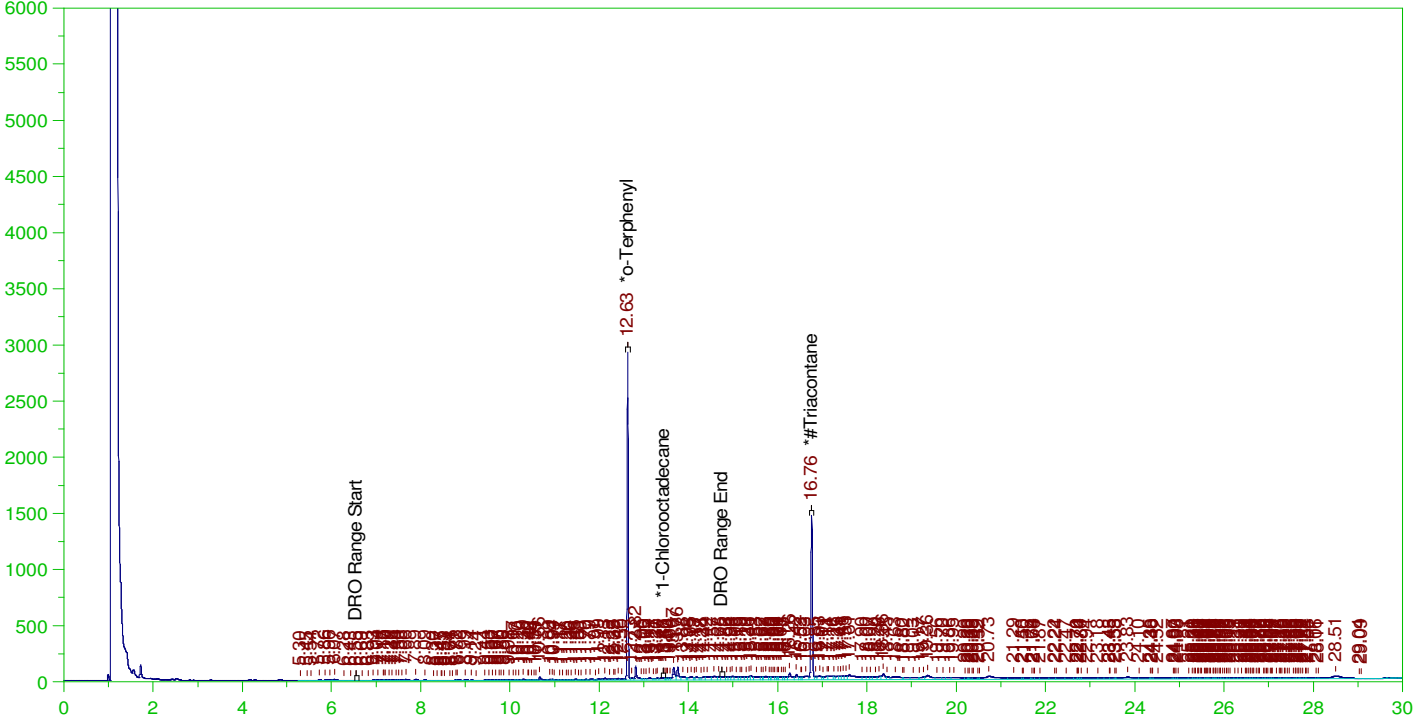
DRO Area:179139.8 DRO Amount: 6.098732
 TEH Area:259473.1 TEH Amount: 8.833645

ERH2238 (RHMW03)

Batch ID: 162502

G:\org\HP4\DAT\HP4010522_b\0105HP4.0015.RAW

B21121965-001D ;0105HP4 , \$HC-8015-DRO-W, RX



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121965-001D ;0105HP4 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0015.RAW
 Date & Time Acquired: 1/5/2022 5:36:53 PM
 Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.194	.148	76.3	-
*1-Chlorooctadecane	13.433	.194	.003	1.75	-
*#Triacontane	16.759	.194	.124	63.83	-

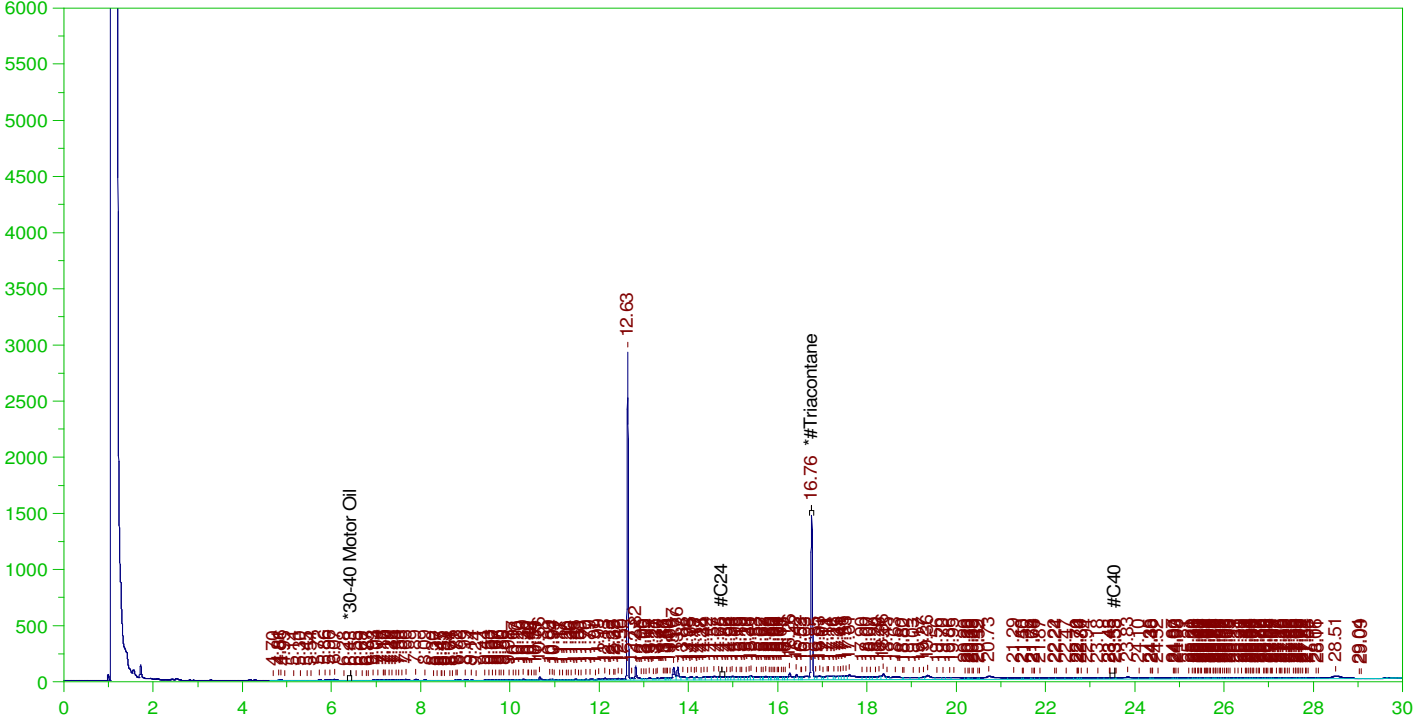
DRO Area:4084940 DRO Amount: 0.1350194
 TEH Area:1.574077E+07 TEH Amount: 0.520279

ERH2238 (RHMW03)

Batch ID: 162502

G:\org\HP4\DAT\HP4010522_b\0105HP4.0015.RAW

B21121965-001D ;0105HP4 , \$HC-8015-DRO-W, RX



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21121965-001D ;0105HP4 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0015.RAW
 Date & Time Acquired: 1/5/2022 5:36:53 PM
 Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.759	.485	.124	25.53	-

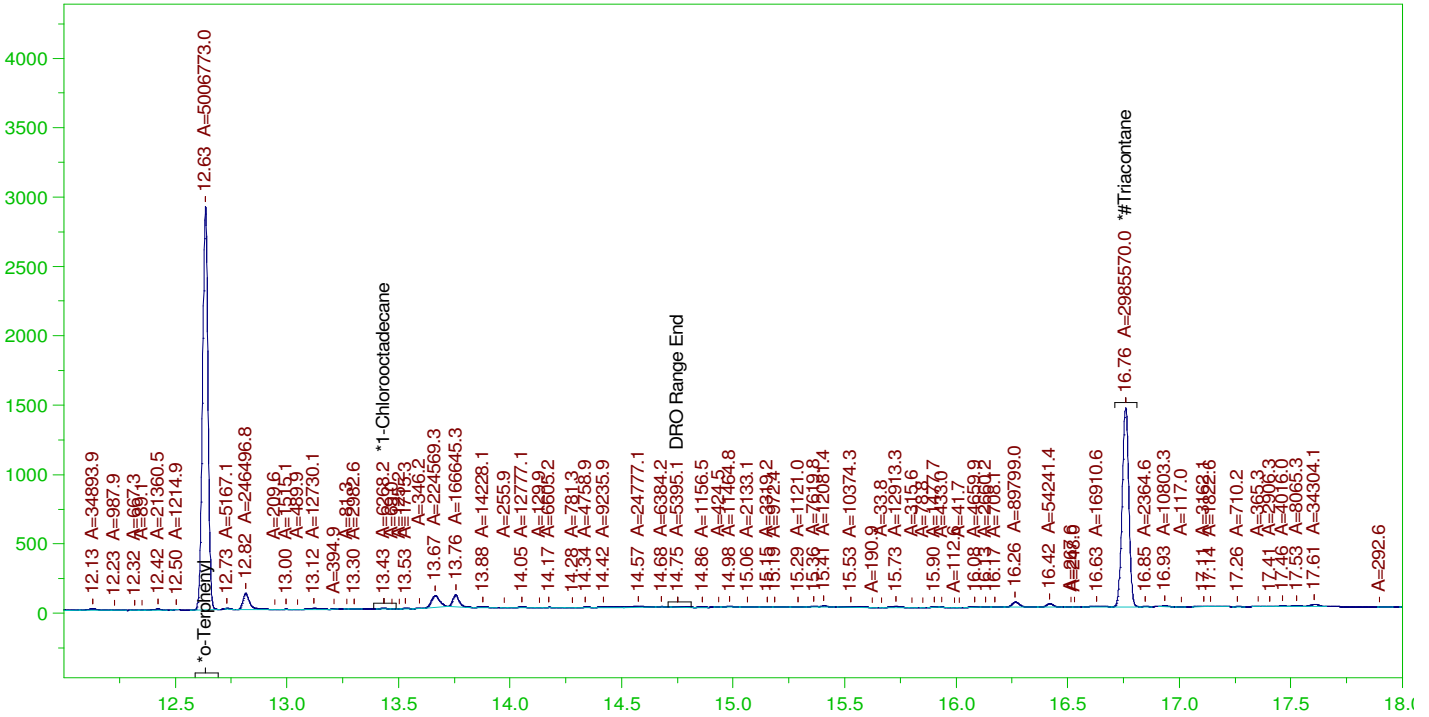
RRO Area:1.009989E+07 RRO AMOUNT: 0.3997511

ERH2238 (RHMW03)

Batch ID: 162502

G:\org\HP4\DAT\HP4010522_b\0105HP4.0015.RAW

B21121965-001D ;0105HP4 , \$HC-8015-DRO-W, RX



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

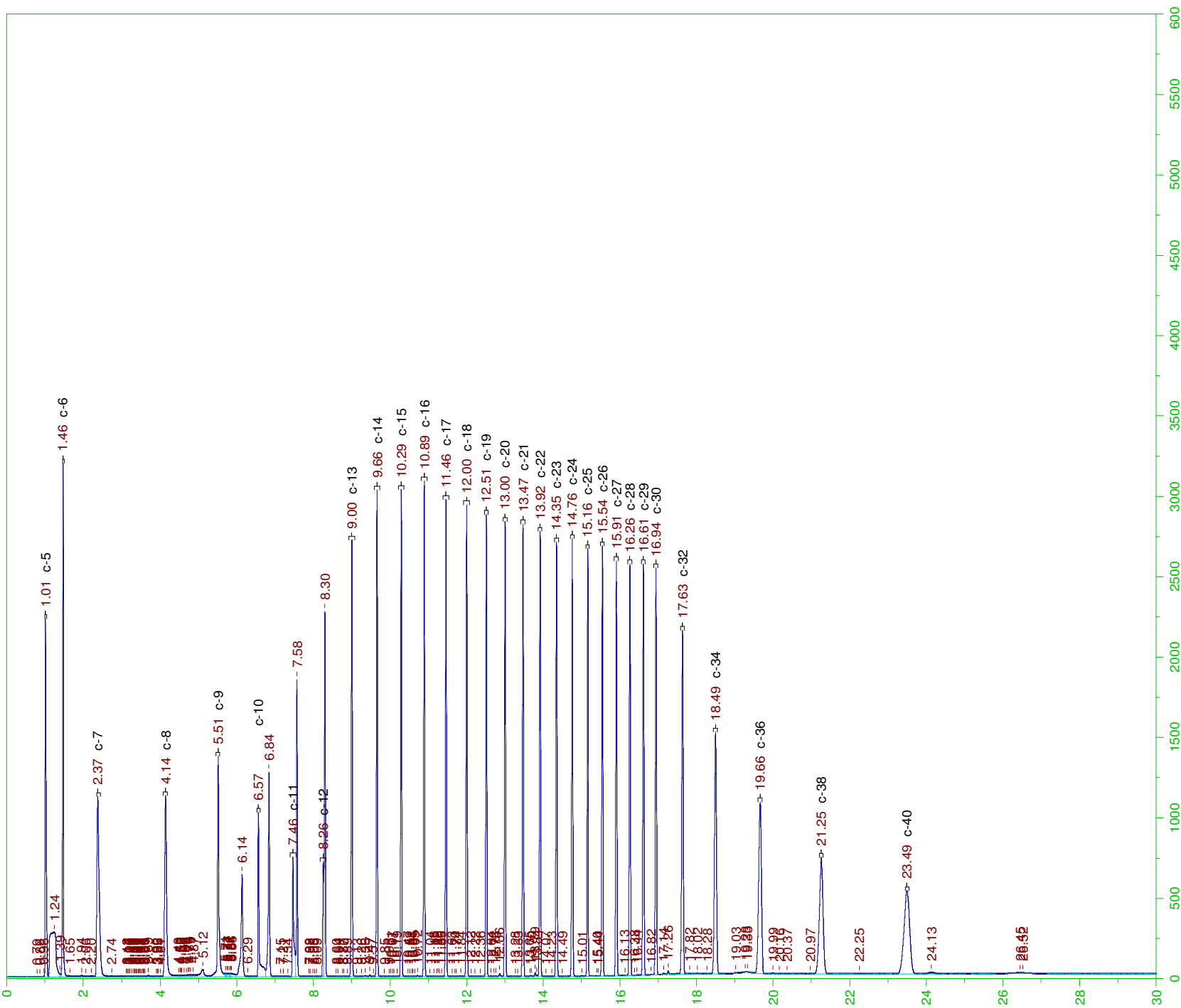
Sample Name: B21121965-001D ;0105HP4 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0015.RAW
 Date & Time Acquired: 1/5/2022 5:36:53 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

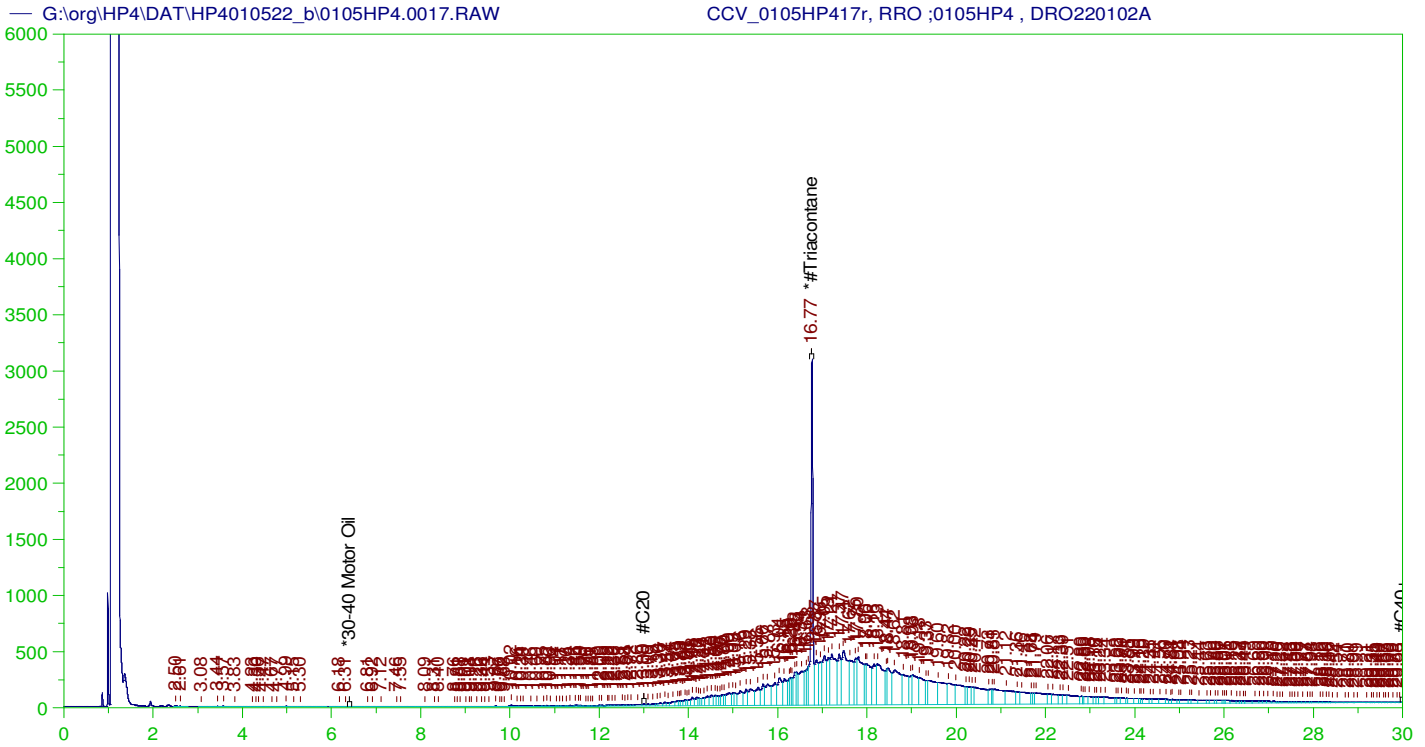
Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.194	.146	75.13	-
*1-Chlorooctadecane	13.433	.194	.	.09	-
*#Triacontane	16.759	.194	.116	59.77	-

DRO Area:1300018 DRO Amount: 4.296943E-02
 TEH Area:2721712 TEH Amount: 8.996063E-02





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP417r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0017.RAW
 Date & Time Acquired: 1/5/2022 7:07:04 PM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.766	500.	342.932	68.59	-

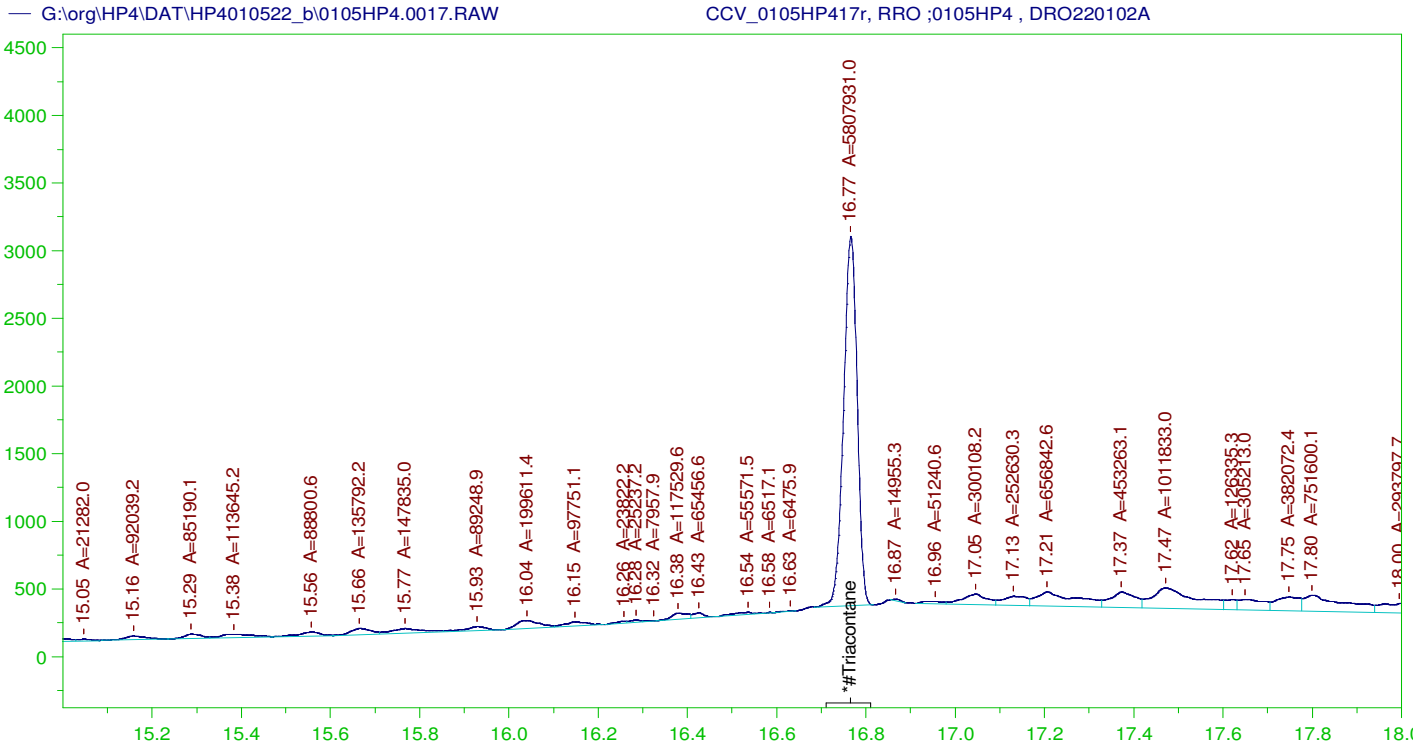
RRO TEH (Oil Range) Area:1.145799E+08 RRO TEH (Oil Range) AMOUNT: 4671.094

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0017.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.766	200.	342.932	171.47	75-125

AMN 01/25/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP417r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0017.RAW
 Date & Time Acquired: 1/5/2022 7:07:04 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.766	500.	232.561	46.51

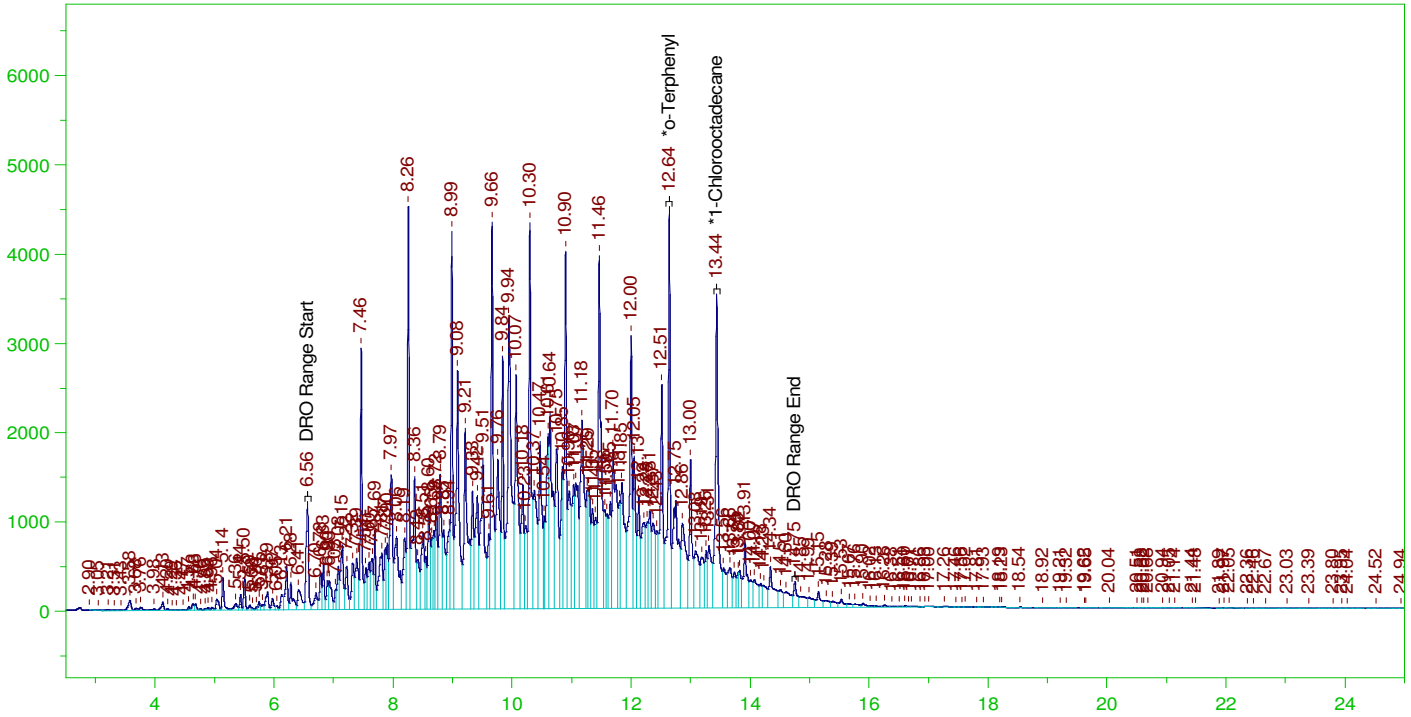
RRO Area:1.060009E+07 RRO AMOUNT: 432.1355

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0017.RAW
 COMPOUND ACTUAL (NG) MEASURED (NG) %RECOVERY LIMITS
 *30-40 Motor Oil 5000. . 75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.766	200.	232.561	116.28	75-125

G:\org\HP4\DAT\HP4010522_b\0105HP4.0018.RAW

CCV_0105HP418r, DRO ;0105HP4 , DRO211229A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0105HP418r, DRO ;0105HP4 , DRO211229A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0018.RAW
 Date & Time Acquired: 1/5/2022 7:51:49 PM
 Method File: G:\Org\HP4\methods\DC_8015-C24-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.642	200.	357.049	178.52
*1-Chlorooctadecane	13.438	200.	355.724	177.86

DRO Area: 4.254741E+08 DRO Amount: 14485.07
 TEH Area: 4.412612E+08 TEH Amount: 15022.54

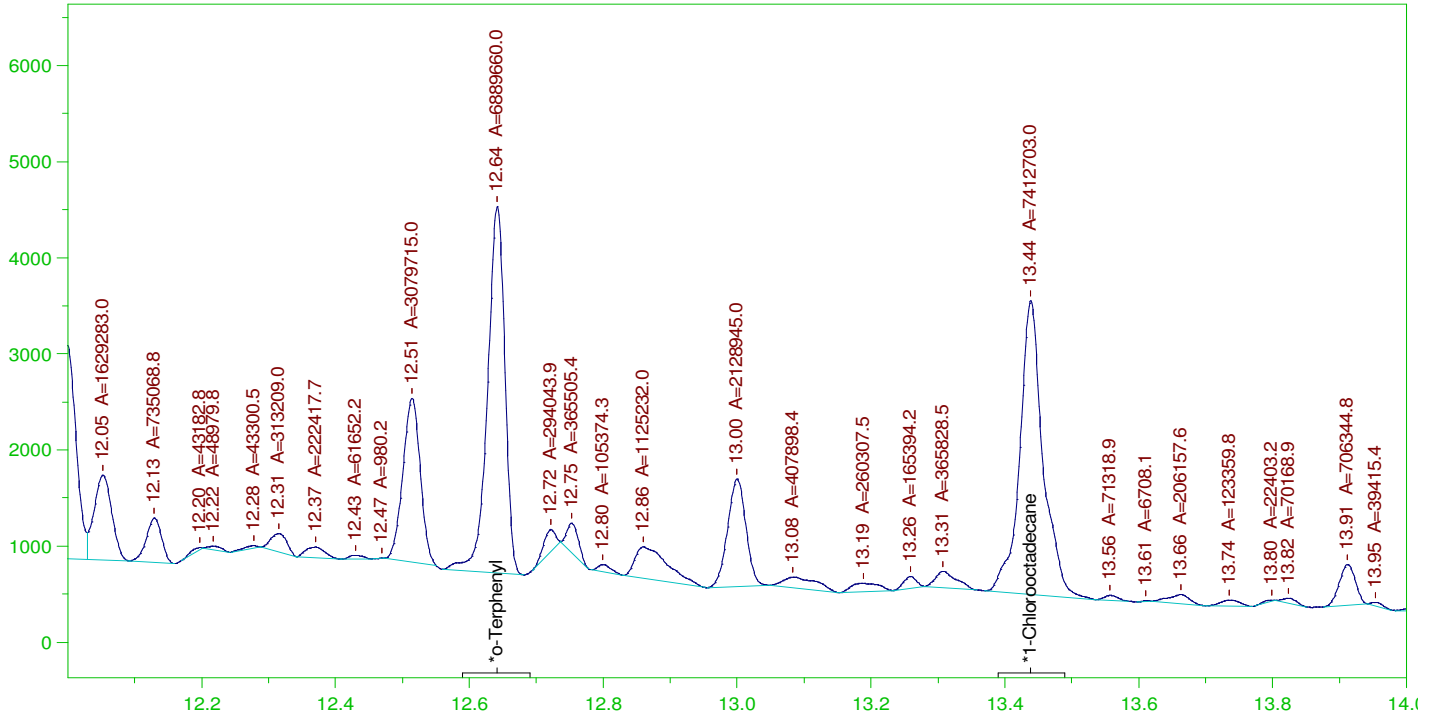
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0018.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15022.54	100.15	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.642	200.	357.049	178.52	85-115
*1-Chlorooctadecane	13.438	200.	355.724	177.86	85-115

G:\org\HP4\DAT\HP4010522_b\0105HP4.0018.RAW

CCV_0105HP418r, DRO ;0105HP4 , DRO211229A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0105HP418r, DRO ;0105HP4 , DRO211229A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0018.RAW
 Date & Time Acquired: 1/5/2022 7:51:49 PM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

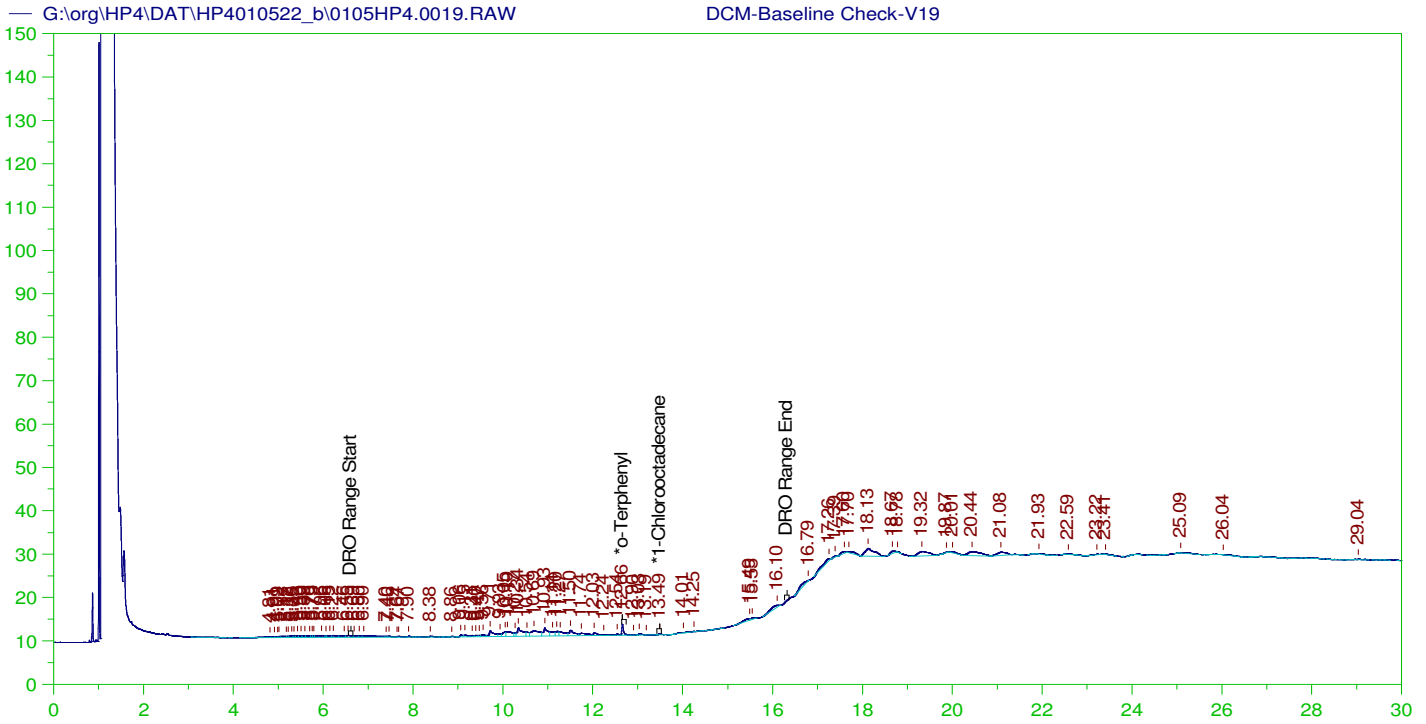
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.642	200.	206.774	103.39
*1-Chlorooctadecane	13.438	200.	222.472	111.24

DRO Area: 1.889004E+08 DRO Amount: 6431.03
 TEH Area: 1.98937E+08 TEH Amount: 6772.721

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0018.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	6772.72	45.15	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.642	200.	206.774	103.39	85-115
*1-Chlorooctadecane	13.438	200.	222.472	111.24	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V19
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0019.RAW
 Date & Time Acquired: 1/5/2022 8:36:43 PM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.656	200.	.238	.12
*1-Chlorooctadecane	13.49	200.	.037	.02

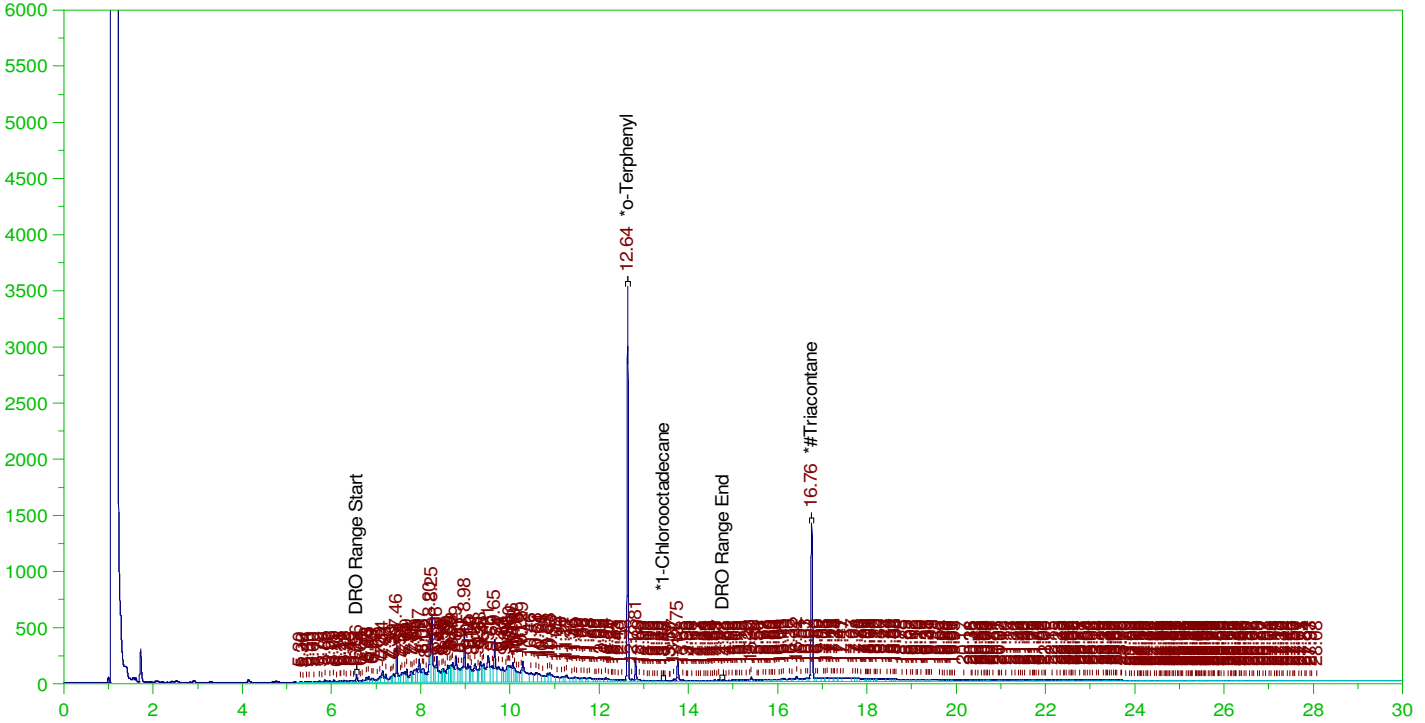
DRO Area:181177.9 DRO Amount: 6.16812
 TEH Area:346545.3 TEH Amount: 11.79798

ERH2287 (RHMW2254-01 Bailer)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0020.RAW

B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0020.RAW
Date & Time Acquired: 1/5/2022 9:21:48 PM
Method File: G:\Org\HP4\methods\D3_8015-010513-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.204	.19	93.05	-
*1-Chlorooctadecane	13.431	.204	.	.19	-
*#Triacontane	16.758	.204	.127	62.42	-

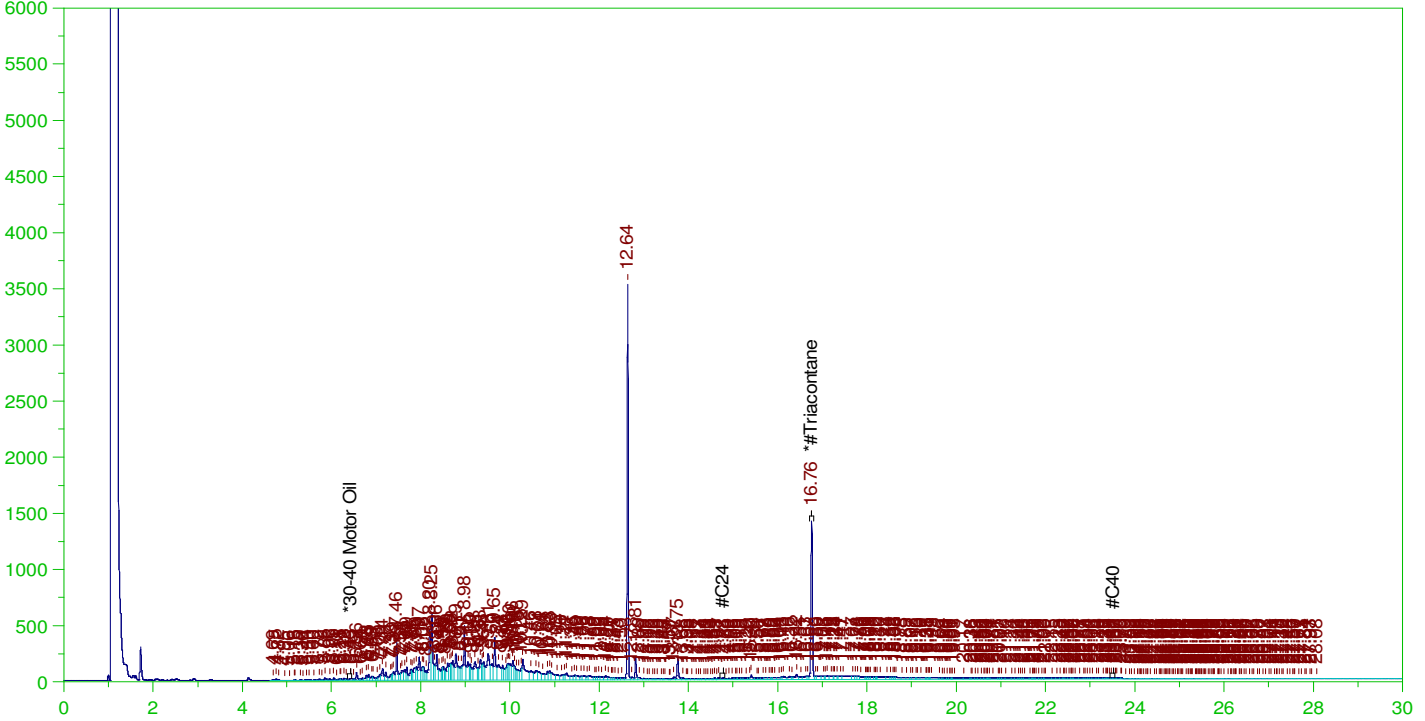
DRO Area: 3.279891E+07 DRO Amount: 1.139412
TEH Area: 4.160582E+07 TEH Amount: 1.445358

ERH2287 (RHMW2254-01 Bailer)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0020.RAW

B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0020.RAW
Date & Time Acquired: 1/5/2022 9:21:48 PM
Method File: G:\Org\HP4\Methods\D3_ORO-010513-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.758	.51	.127	24.97	-

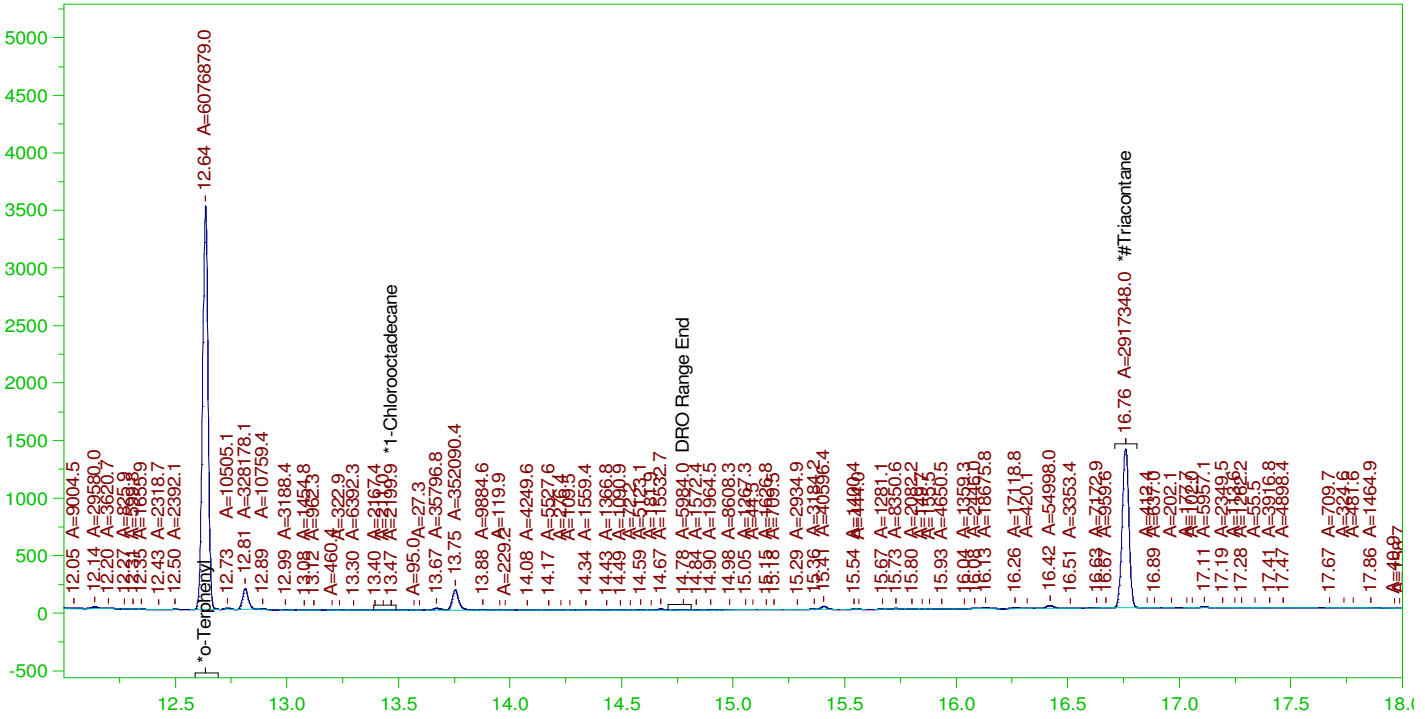
RRO Area:7791871 RRO AMOUNT: 0.3241349

ERH2287 (RHMW2254-01 Bailer)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0020.RAW

B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0020.RAW
Date & Time Acquired: 1/5/2022 9:21:48 PM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.204	.186	91.19	-
*1-Chlorooctadecane	13.468	.204	.	.03	-
*#Triacontane	16.758	.204	.119	58.41	-

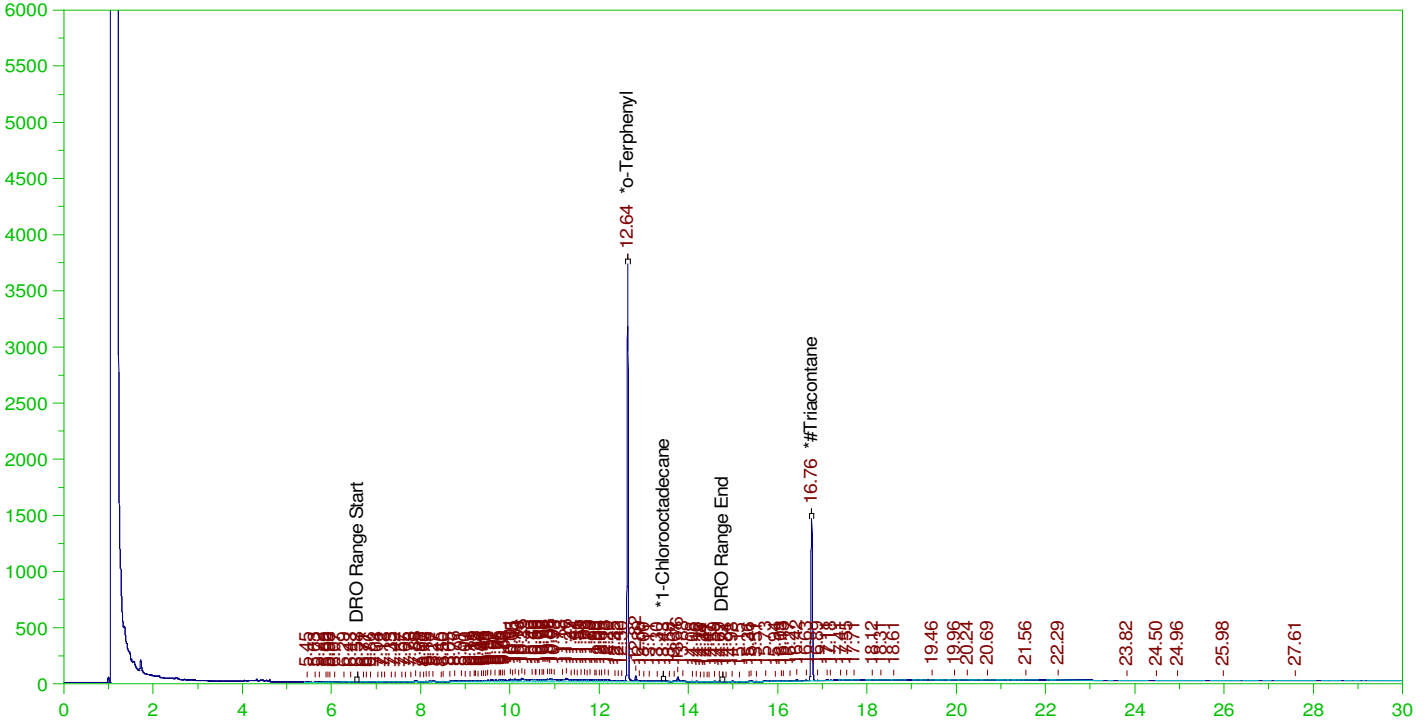
DRO Area:2.546451E+07 DRO Amount: 0.8846203
TEH Area:2.622275E+07 TEH Amount: 0.9109611

ERH2289 (RHMW2254-01 LF)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0021.RAW

B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0021.RAW
 Date & Time Acquired: 1/5/2022 10:06:50 PM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.19	.188	98.57	-
*1-Chlorooctadecane	13.435	.19	.001	.4	-
*#Triacontane	16.758	.19	.117	61.62	-

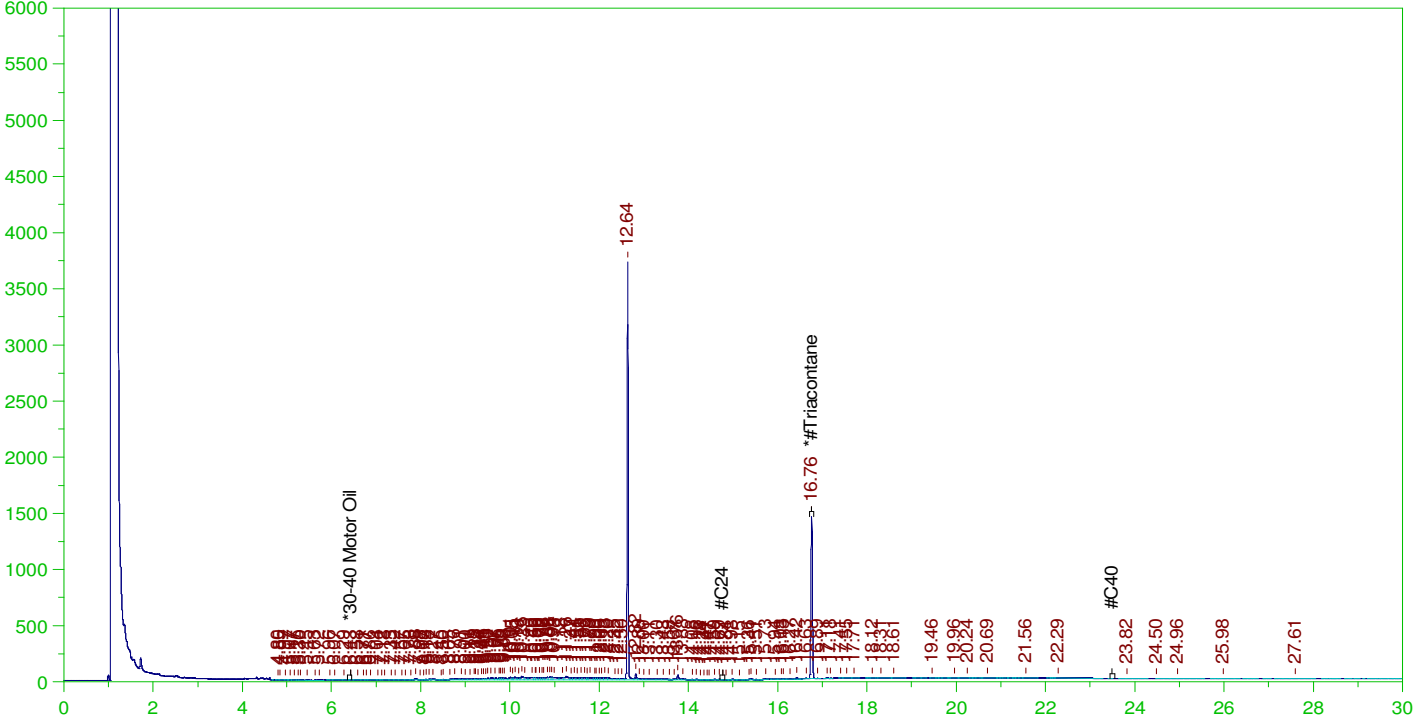
DRO Area:4614550 DRO Amount: 0.1496193
 TEH Area:4889961 TEH Amount: 0.1585491

ERH2289 (RHMW2254-01 LF)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0021.RAW

B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0021.RAW
Date & Time Acquired: 1/5/2022 10:06:50 PM
Method File: G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.758	.476	.117	24.54

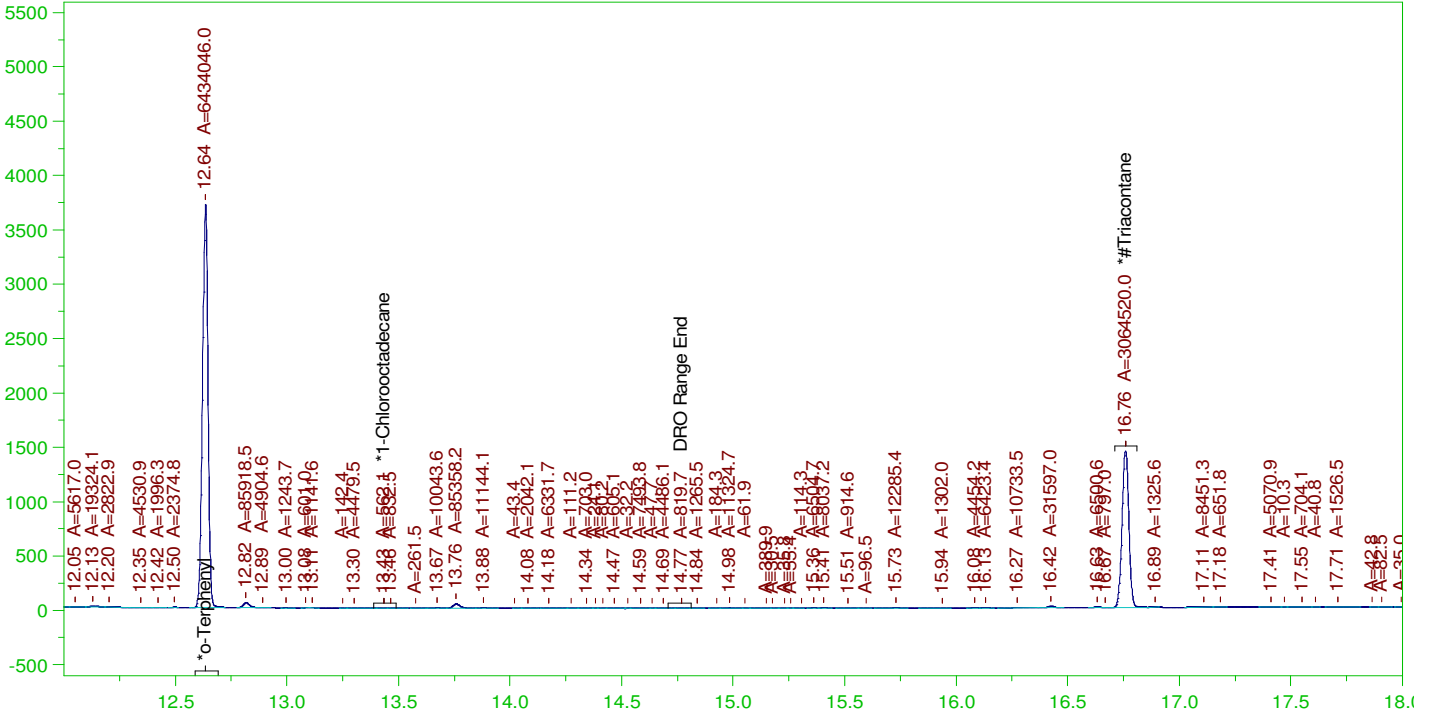
RRO Area:186232.1 RRO AMOUNT: 7.230619E-03

ERH2289 (RHMW2254-01 LF)

Batch ID: 162648

G:\Org\HP4\DAT\HP4010522_b\0105HP4.0021.RAW

B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0021.RAW
Date & Time Acquired: 1/5/2022 10:06:50 PM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

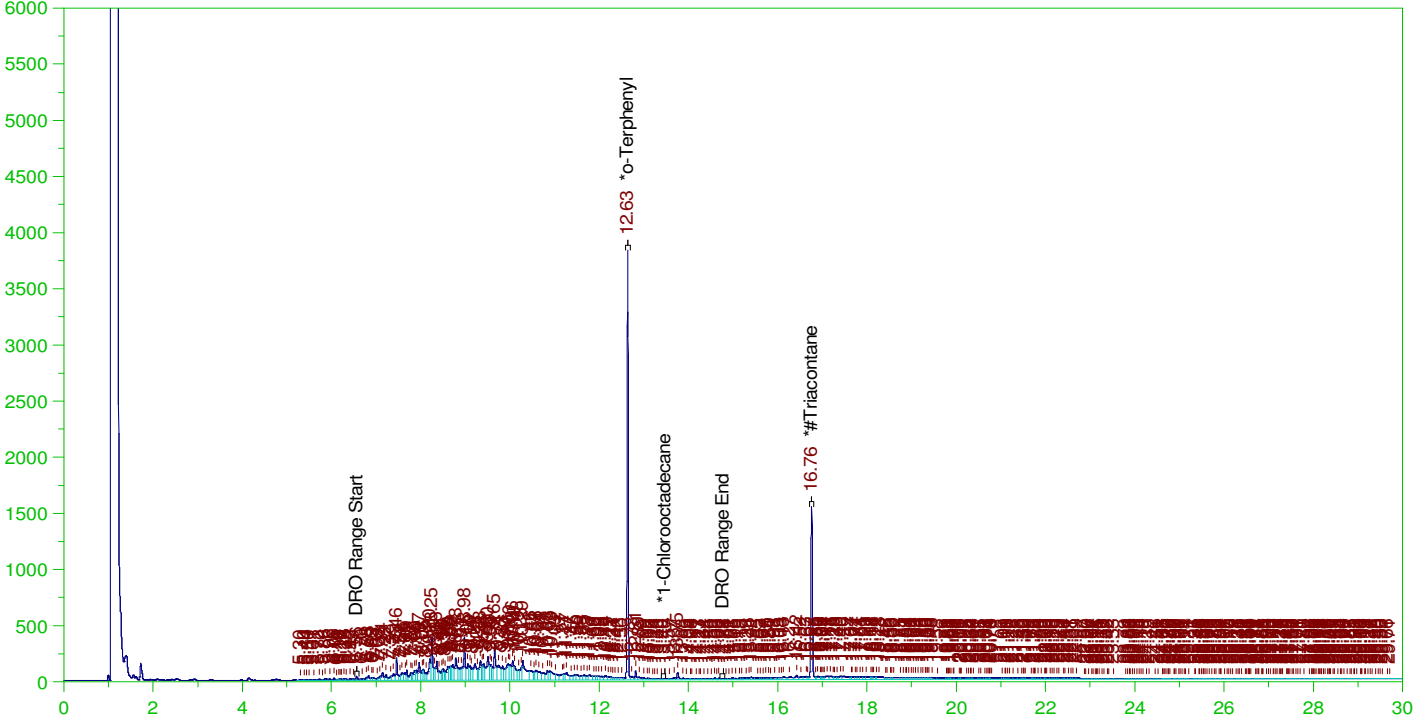
Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.19	.184	96.55	-
*1-Chlorooctadecane	13.435	.19	.	.01	-
*#Triacontane	16.758	.19	.117	61.35	-

DRO Area:1715131 DRO Amount: 5.561033E-02
TEH Area:2366073 TEH Amount: 0.0767161

ERH2288 (RHMW2254-01 Bailer) FD
G:\org\HP4\DAT\HP4010522_b\0105HP4.0022.RAW

Batch ID: 162648
B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0022.RAW
Date & Time Acquired: 1/5/2022 10:51:42 PM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

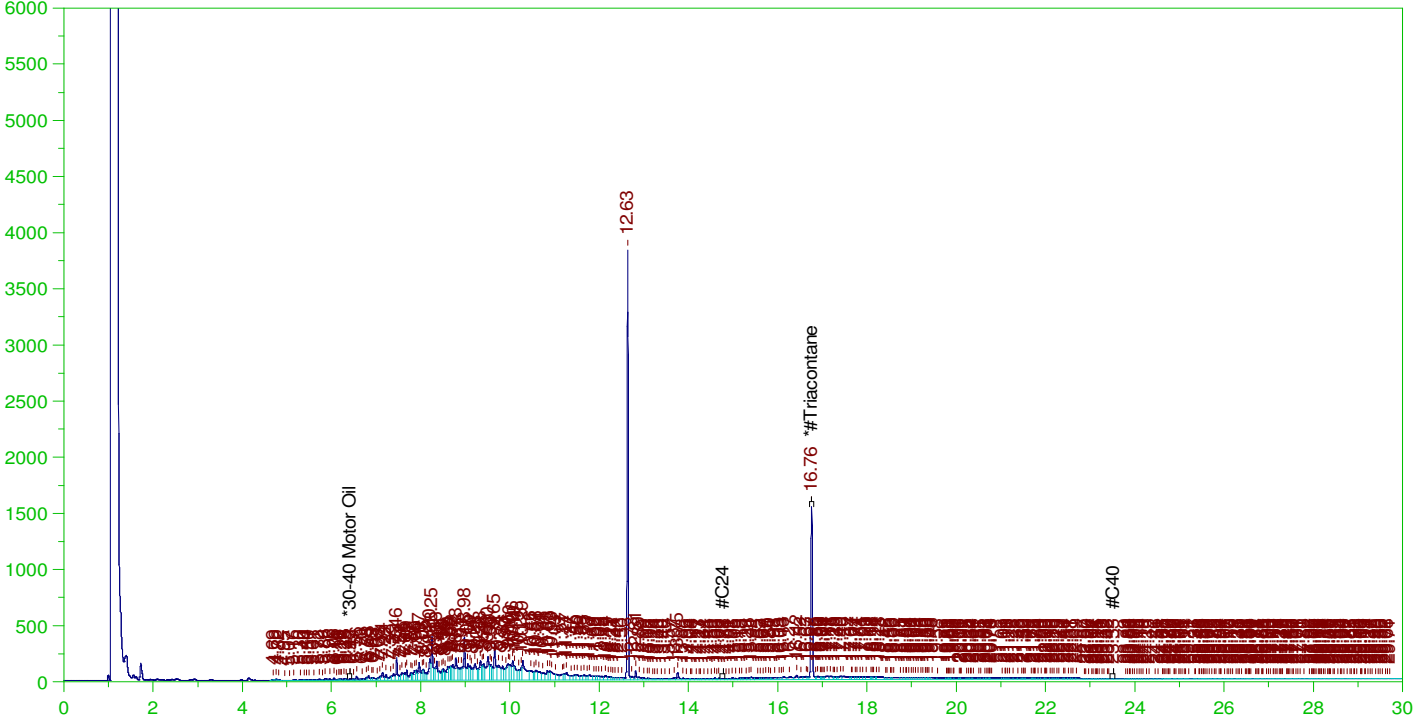
Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.192	.197	102.25	-
*1-Chlorooctadecane	13.46	.192	.002	1.04	-
*#Triacontane	16.758	.192	.131	68.29	-

DRO Area: 2.838205E+07 DRO Amount: 0.9290905
TEH Area: 3.717354E+07 TEH Amount: 1.216881

ERH2288 (RHMW2254-01 Bailer) FD
G:\org\HP4\DAT\HP4010522_b\0105HP4.0022.RAW

Batch ID: 162648
B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0022.RAW
Date & Time Acquired: 1/5/2022 10:51:42 PM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.758	.481	.131	27.32	-

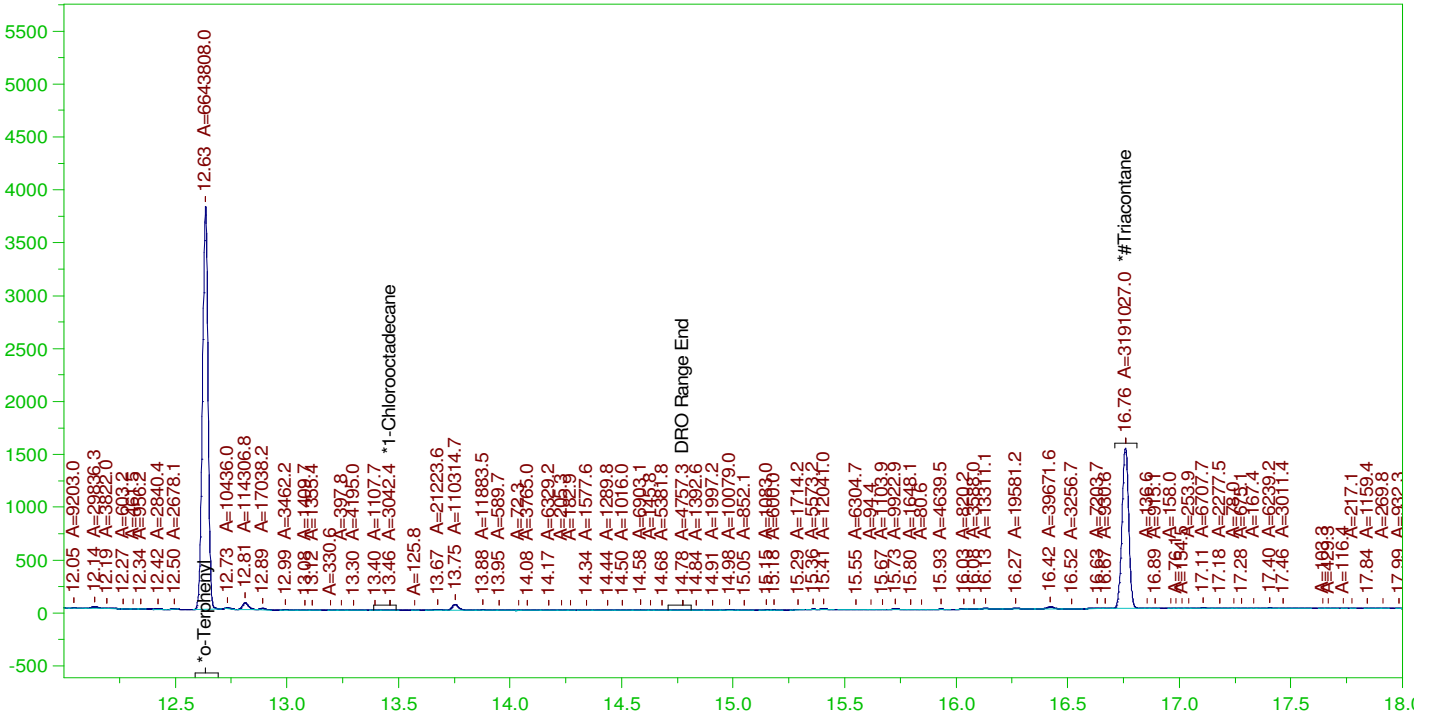
RRO Area:7627556 RRO AMOUNT: 0.2989938

ERH2288 (RHMW2254-01 Bailer) FD

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0022.RAW

B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

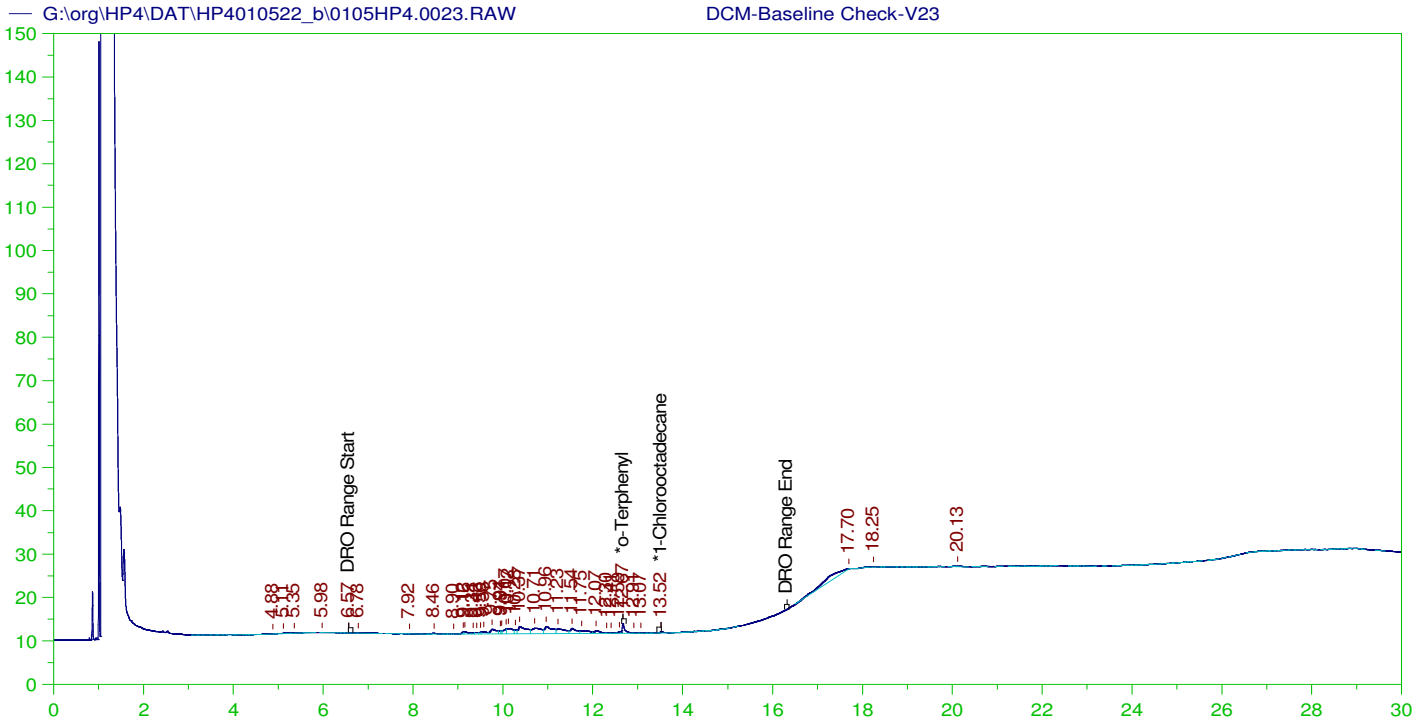
Sample Name: B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0022.RAW
 Date & Time Acquired: 1/5/2022 10:51:42 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.635	.192	.192	99.7	-
*1-Chlorooctadecane	13.46	.192	.	.05	-
*#Triacontane	16.758	.192	.123	63.89	-

DRO Area: 2.00894E+07 DRO Amount: 0.6576294
 TEH Area: 2.070843E+07 TEH Amount: 0.6778934



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V23
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0023.RAW
 Date & Time Acquired: 1/5/2022 11:36:23 PM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.671	200.	.291	.15	-
*1-Chlorooctadecane	13.523	200.	.045	.02	-

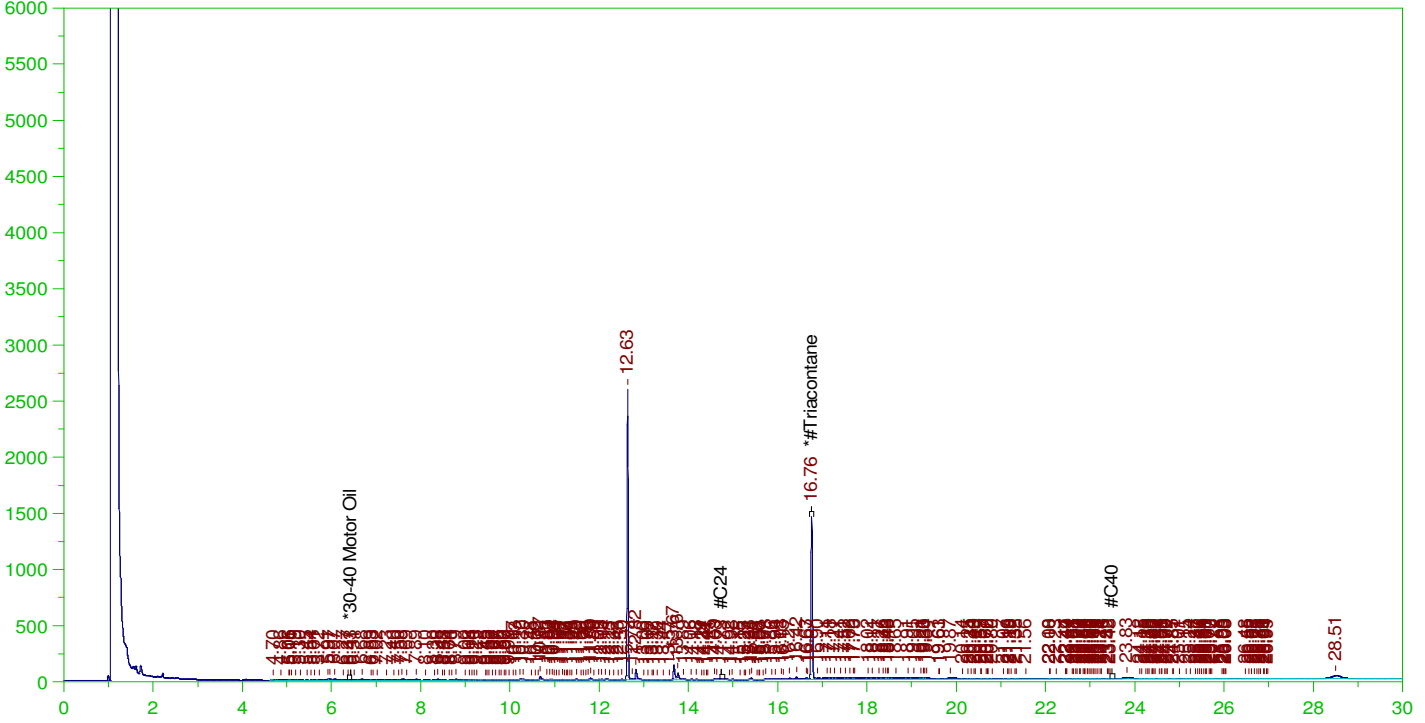
DRO Area:162002.6 DRO Amount: 5.515304
 TEH Area:224578.3 TEH Amount: 7.645666

ERH2285 (RHMW05) MS/MSD

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0024.RAW

B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0024.RAW
Date & Time Acquired: 1/6/2022 12:21:17 AM
Method File: G:\Org\HP4\Methods\D3_ORO-010524-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.758	.485	.123	25.32	-

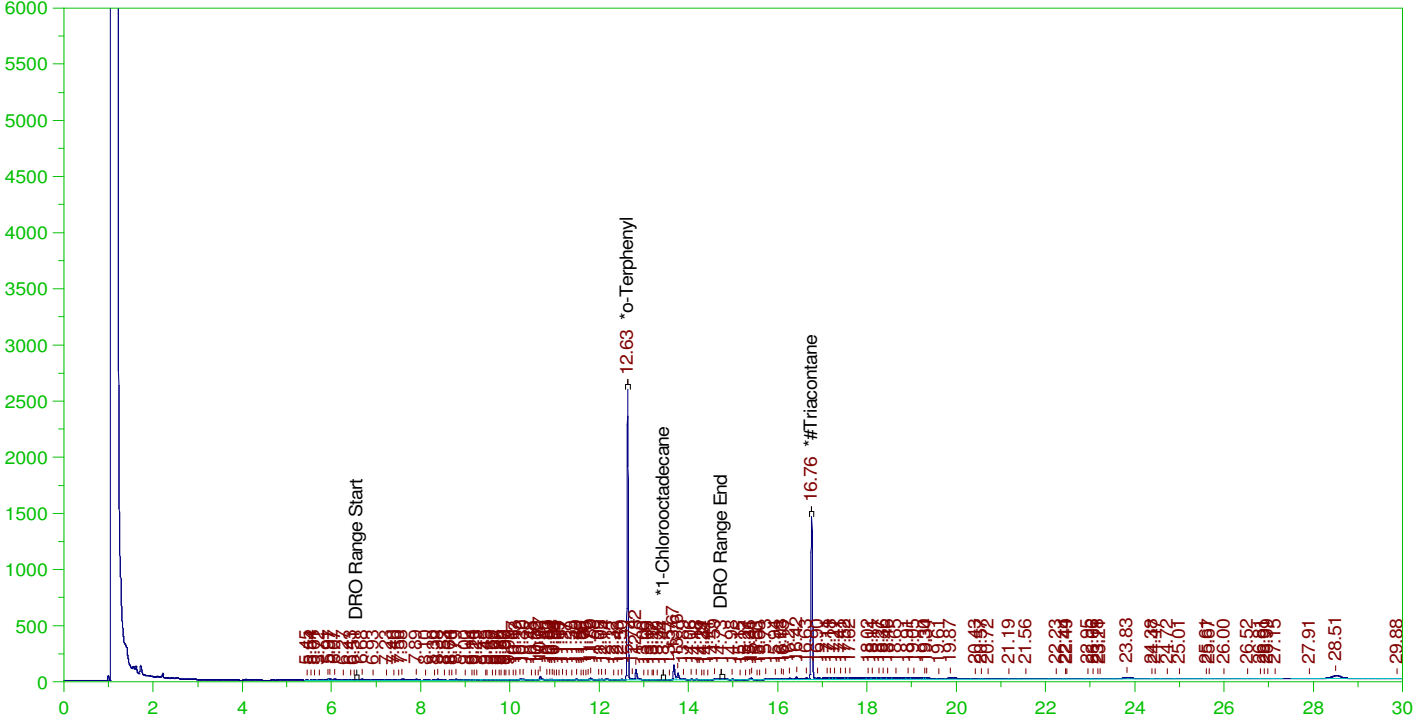
RRO Area:3896277 RRO AMOUNT: 0.1542137

ERH2285 (RHMW05) MS/MSD

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0024.RAW

B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0024.RAW
Date & Time Acquired: 1/6/2022 12:21:17 AM
Method File: G:\Org\HP4\methods\DR_8015-010524-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC		
*o-Terphenyl	12.634	.194	.133	68.56	-	-
*1-Chlorooctadecane	13.435	.194	.	.06	-	-
*#Triacontane	16.758	.194	.123	63.29	-	-

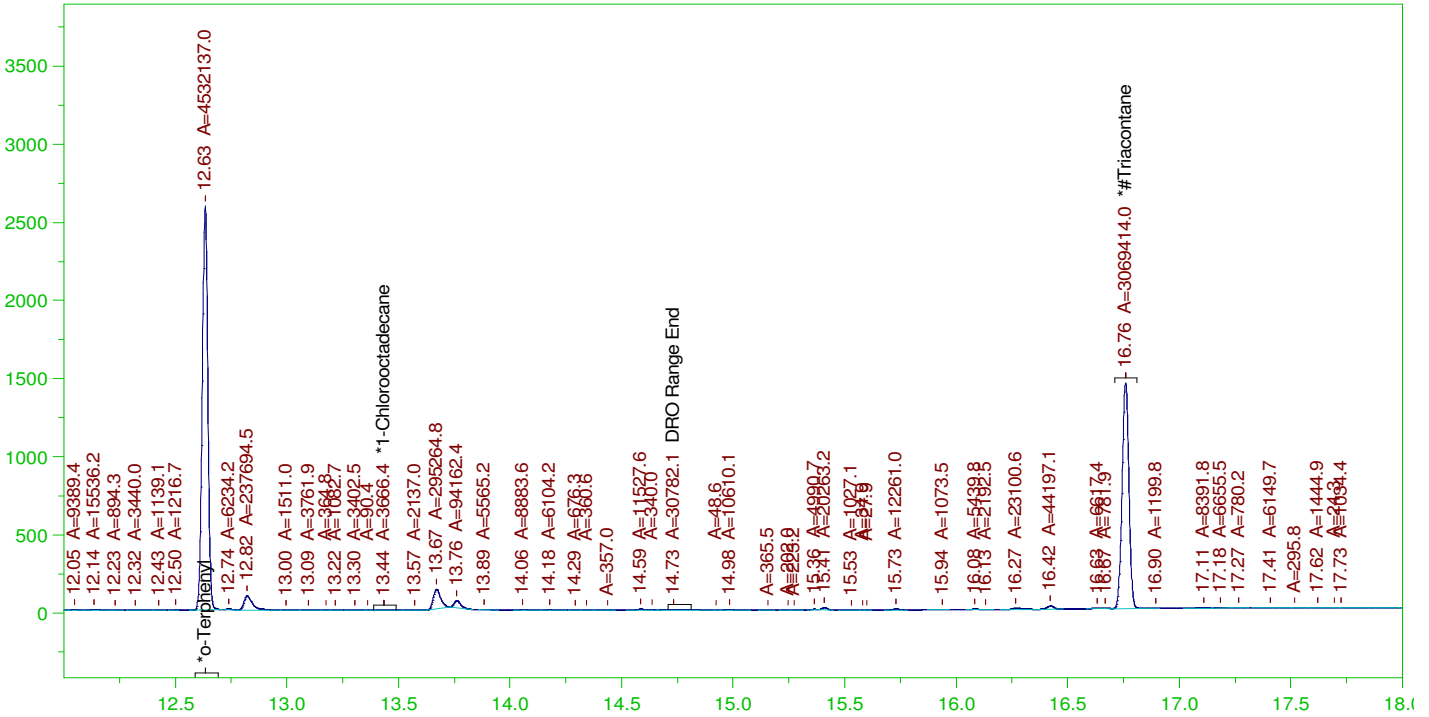
DRO Area:1894916 DRO Amount: 6.263258E-02
TEH Area:6883917 TEH Amount: 0.2275338

ERH2285 (RHMW05) MS/MSD

Batch ID: 162648

G:\Org\HP4\DAT\HP4010522_b\0105HP4.0024.RAW

B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0024.RAW
Date & Time Acquired: 1/6/2022 12:21:17 AM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

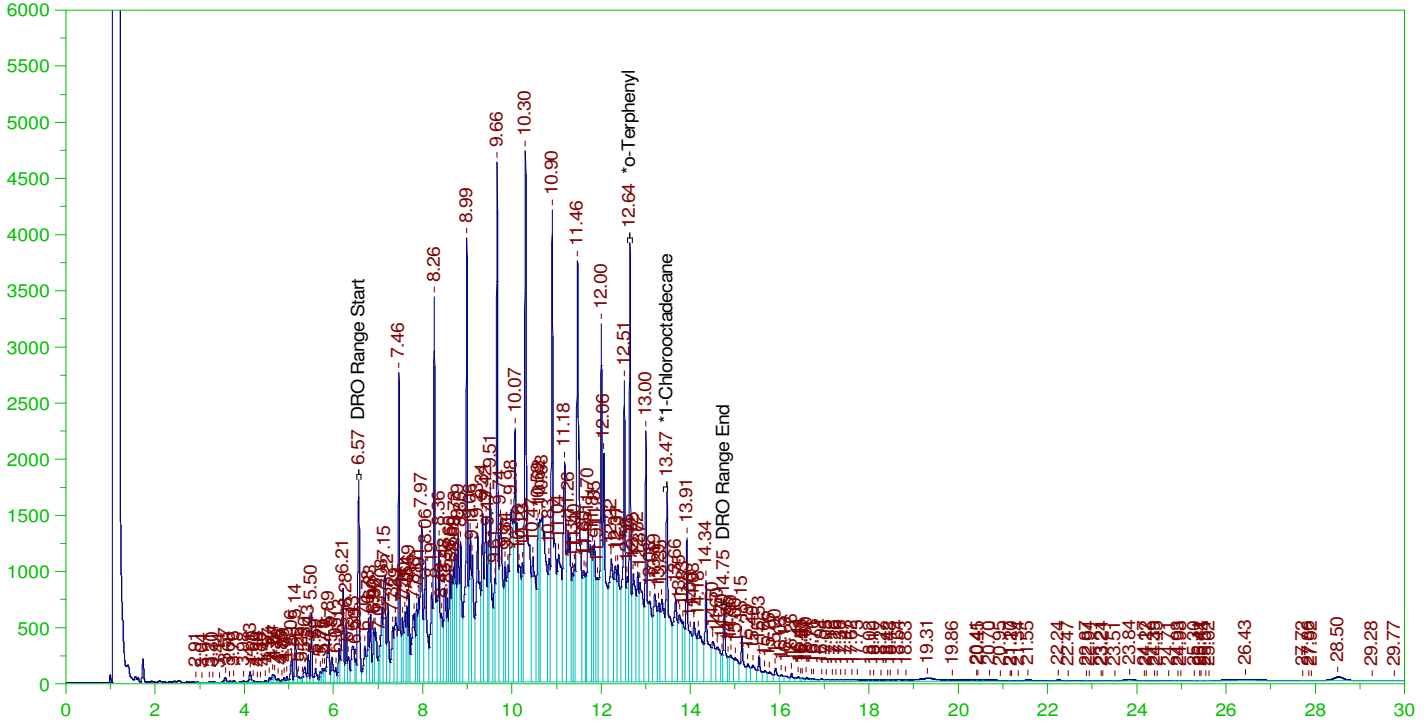
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.634	.194	.132	68.01	-
*1-Chlorooctadecane	13.435	.194	.	.06	-
*#Triacontane	16.758	.194	.119	61.45	-

DRO Area:1310128 DRO Amount: 4.330361E-02
TEH Area:2406885 TEH Amount: 7.955468E-02

Batch ID: 162648

B21122168-001DMS ;0105HP4 ,

G:\org\HP4\DAT\HP4010522_b\0105HP4.0025.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001DMS ;0105HP4 ,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0025.RAW
Date & Time Acquired: 1/6/2022 1:06:20 AM
Method File: G:\Org\HP4\methods\D3_8015-C24-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.641	.194	.266	136.84	-
*1-Chlorooctadecane	13.467	.194	.217	111.68	-

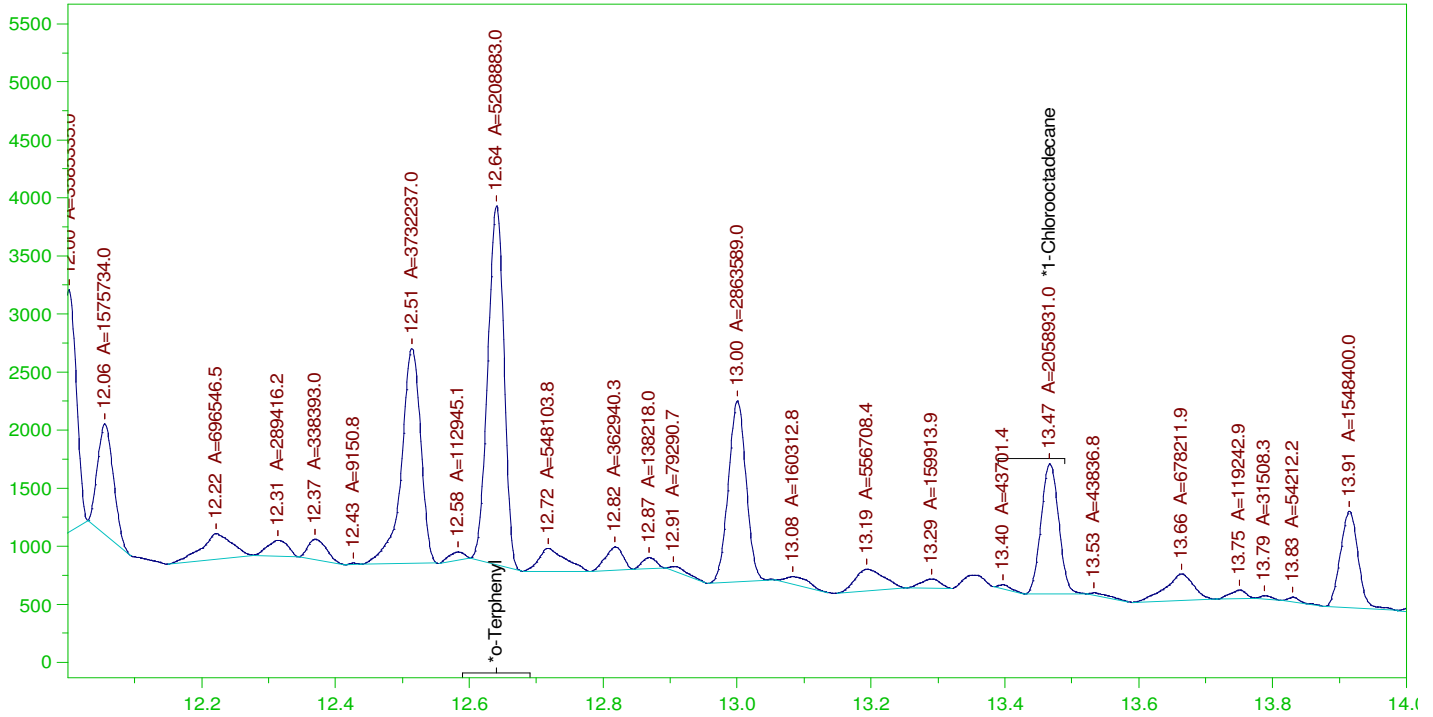
DRO Area: 4.386229E+08 DRO Amount: 14.49779

TEH Area: 4.737095E+08 TEH Amount: 15.6575

Batch ID: 162648

B21122168-001DMS ;0105HP4 ,

G:\org\HP4\DAT\HP4010522_b\0105HP4.0025.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001DMS ;0105HP4 ,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0025.RAW
 Date & Time Acquired: 1/6/2022 1:06:20 AM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

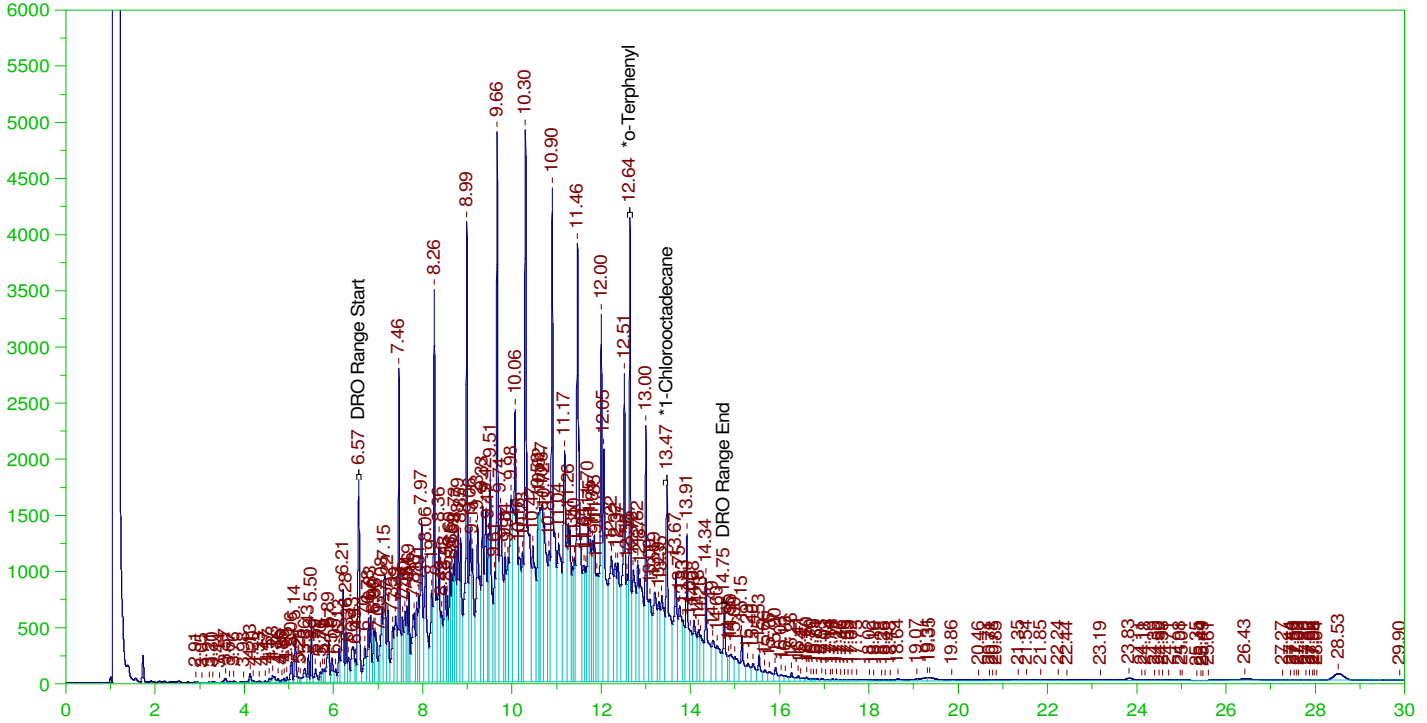
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.641	.194	.152	78.17	-
*1-Chlorooctadecane	13.467	.194	.06	30.9	-

DRO Area:1.802197E+08 DRO Amount: 5.956796
 TEH Area:1.969731E+08 TEH Amount: 6.510544

Batch ID: 162648

B21122168-001DMSD ;0105HP4 ,

G:\org\HP4\DAT\HP4010522_b\0105HP4.0026.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001DMSD ;0105HP4 ,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0026.RAW
Date & Time Acquired: 1/6/2022 1:51:26 AM
Method File: G:\Org\HP4\methods\D3_8015-C24-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

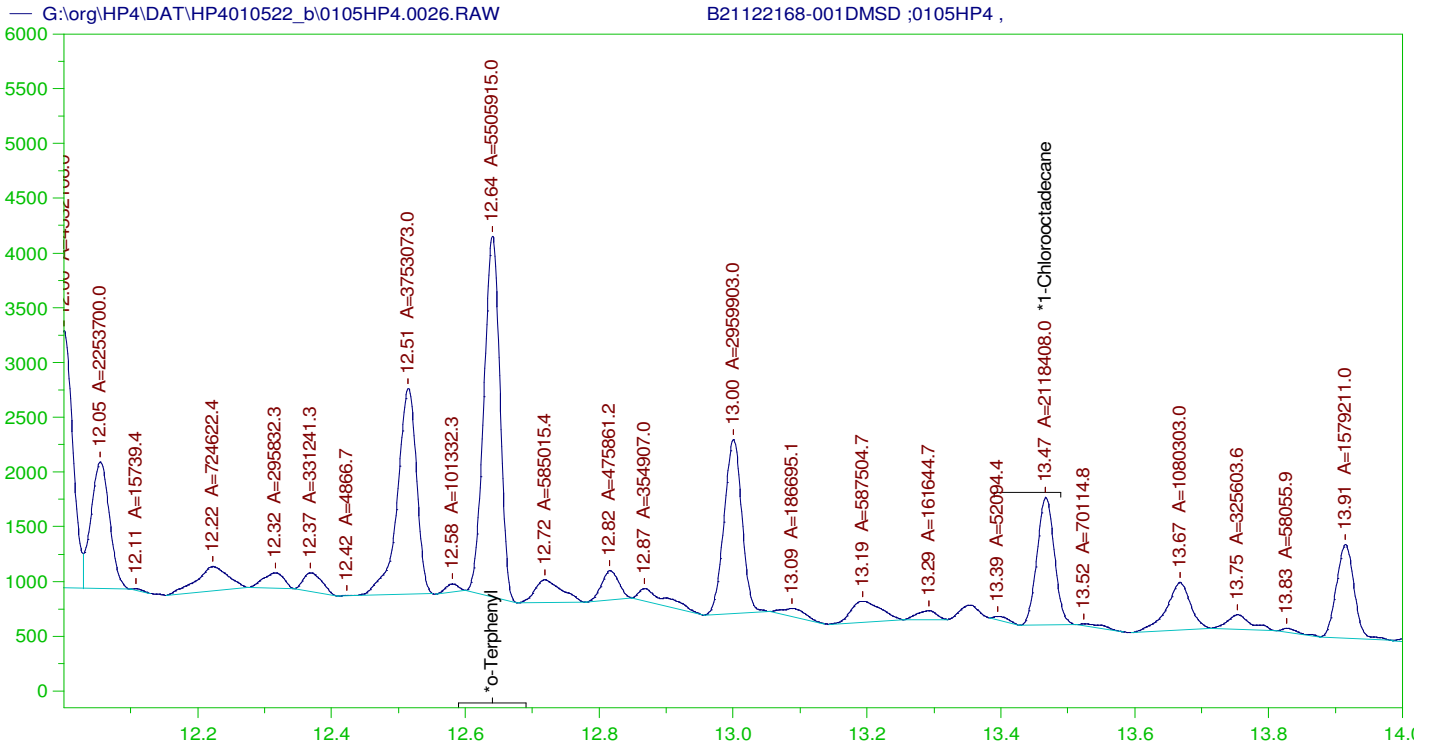
Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.641	.192	.273	141.98
*1-Chlorooctadecane	13.467	.192	.225	117.1

DRO Area: 4.569778E+08 DRO Amount: 14.95923
TEH Area: 4.920652E+08 TEH Amount: 16.10783

Batch ID: 162648

B21122168-001DMSD ;0105HP4 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

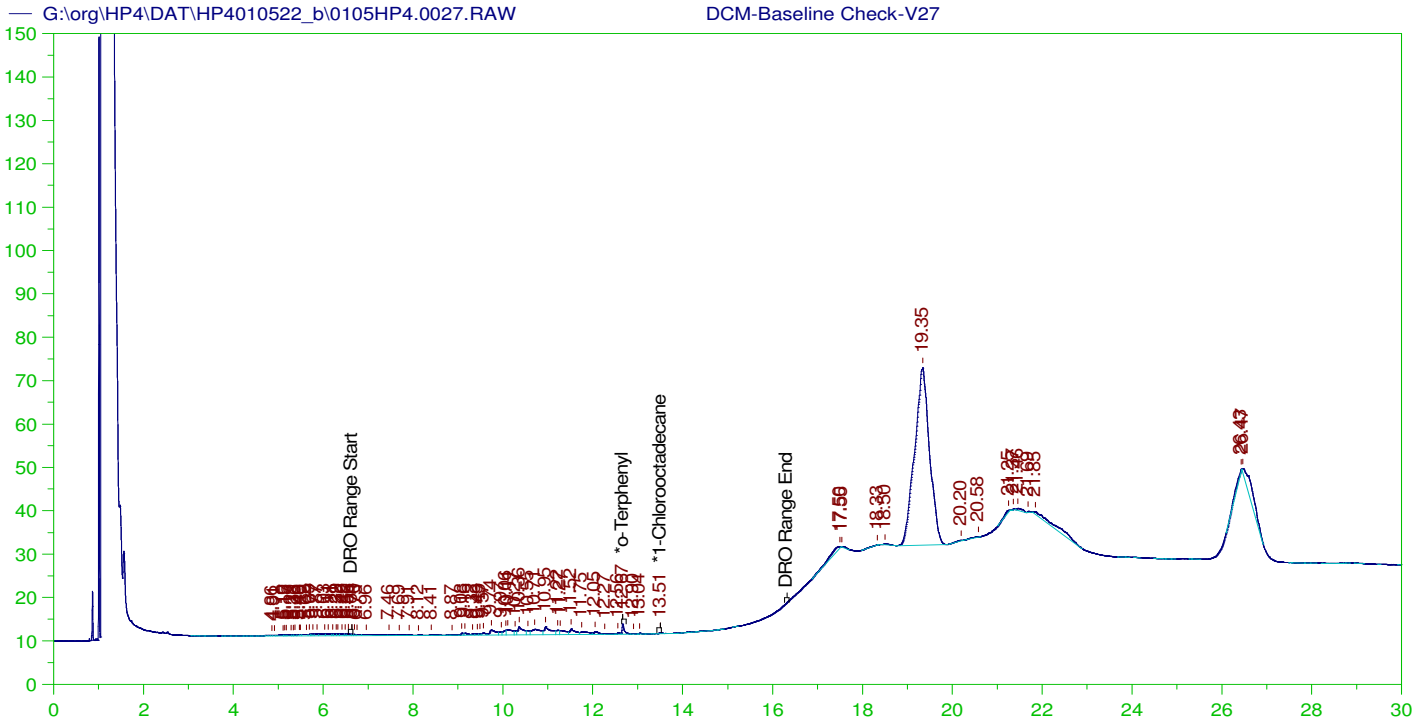
Sample Name: B21122168-001DMSD ;0105HP4 ,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0026.RAW
 Date & Time Acquired: 1/6/2022 1:51:26 AM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.641	.192	.159	82.62
*1-Chlorooctadecane	13.467	.192	.061	31.79

DRO Area: 1.919582E+08 DRO Amount: 6.28378
 TEH Area: 2.08566E+08 TEH Amount: 6.827437



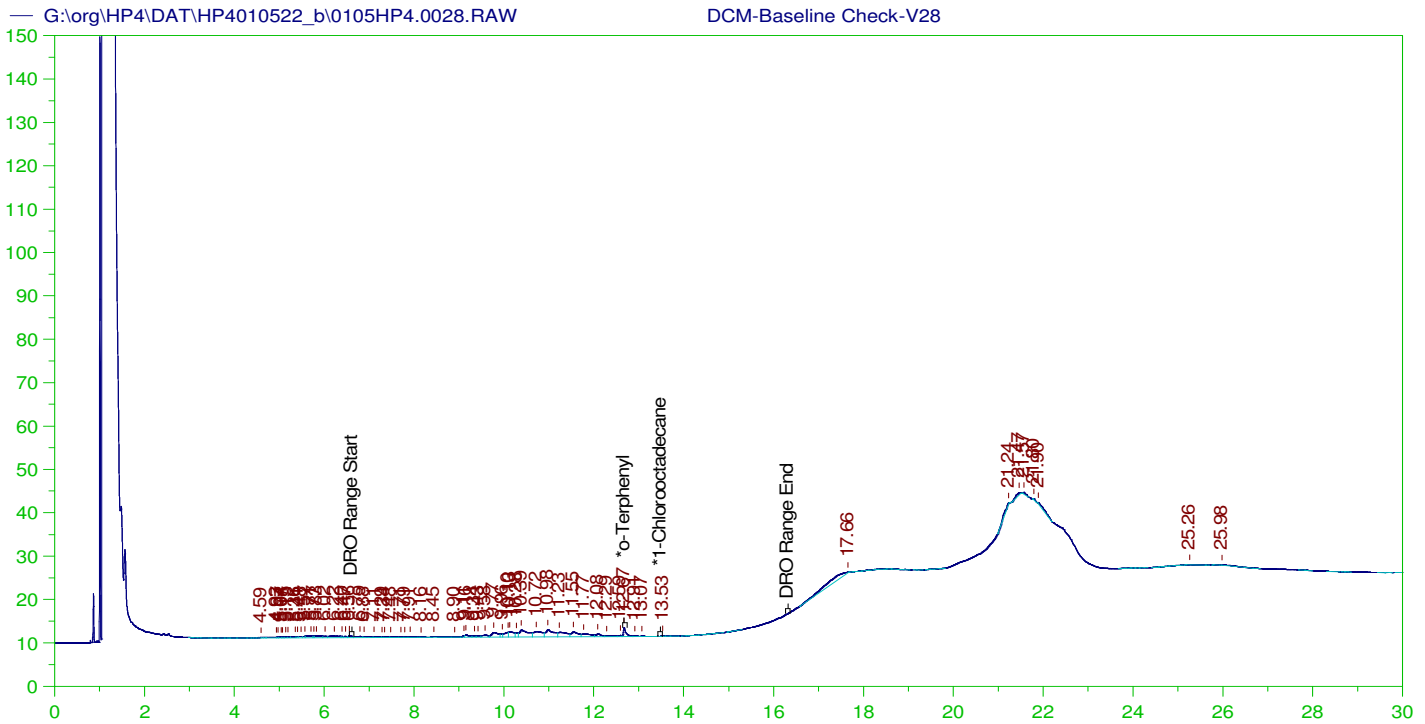
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V27
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0027.RAW
 Date & Time Acquired: 1/6/2022 2:36:11 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.666	200.	.261	.13	-
*1-Chlorooctadecane	13.506	200.	.039	.02	-

DRO Area:168028.3 DRO Amount: 5.720448
 TEH Area:1316537 TEH Amount: 44.8209



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V28
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0028.RAW
 Date & Time Acquired: 1/6/2022 3:21:07 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.675	200.	.282	.14
*1-Chlorooctadecane	29.883	200.	.	.

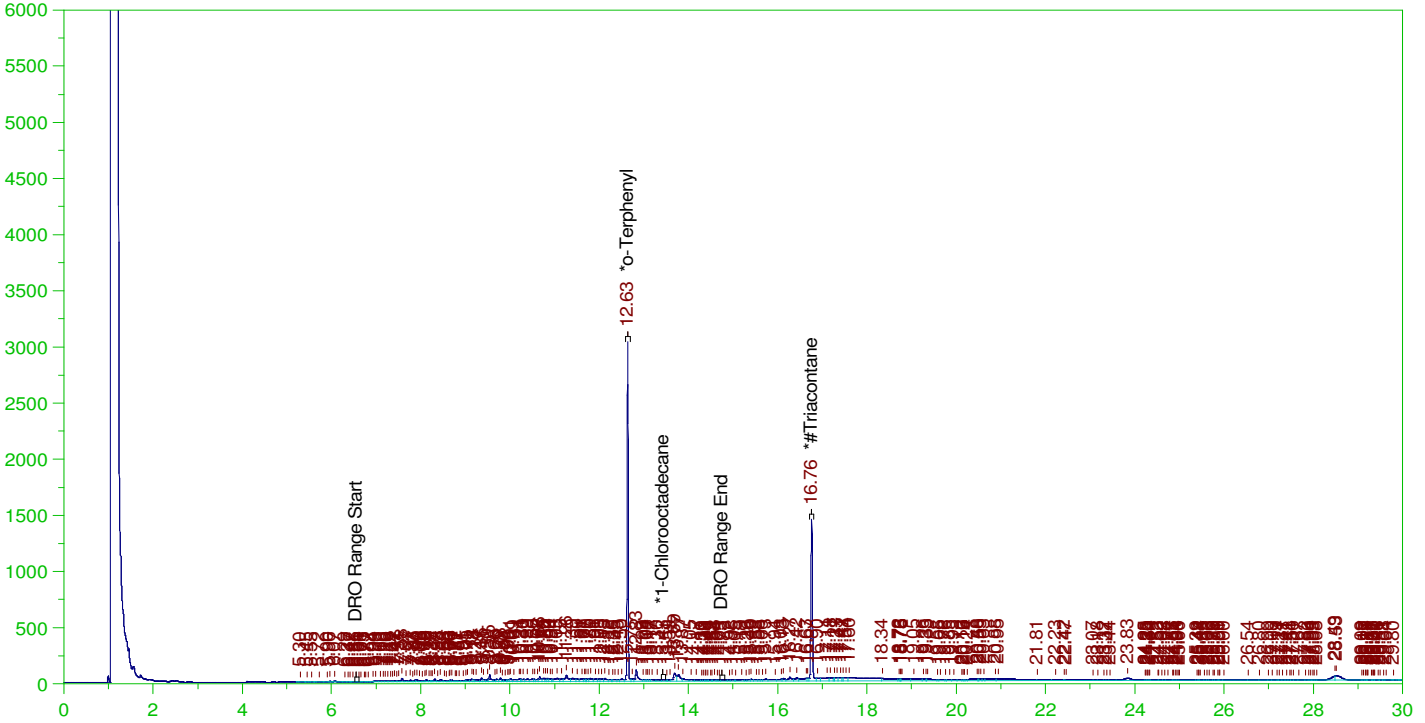
DRO Area:183006 DRO Amount: 6.230358
 TEH Area:294553.1 TEH Amount: 10.02793

ERH2278 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0029.RAW

B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0029.RAW
Date & Time Acquired: 1/6/2022 4:06:01 AM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.634	.19	.153	80.41	-
*1-Chlorooctadecane	13.428	.19	.003	1.57	-
*#Triacontane	16.758	.19	.123	64.59	-

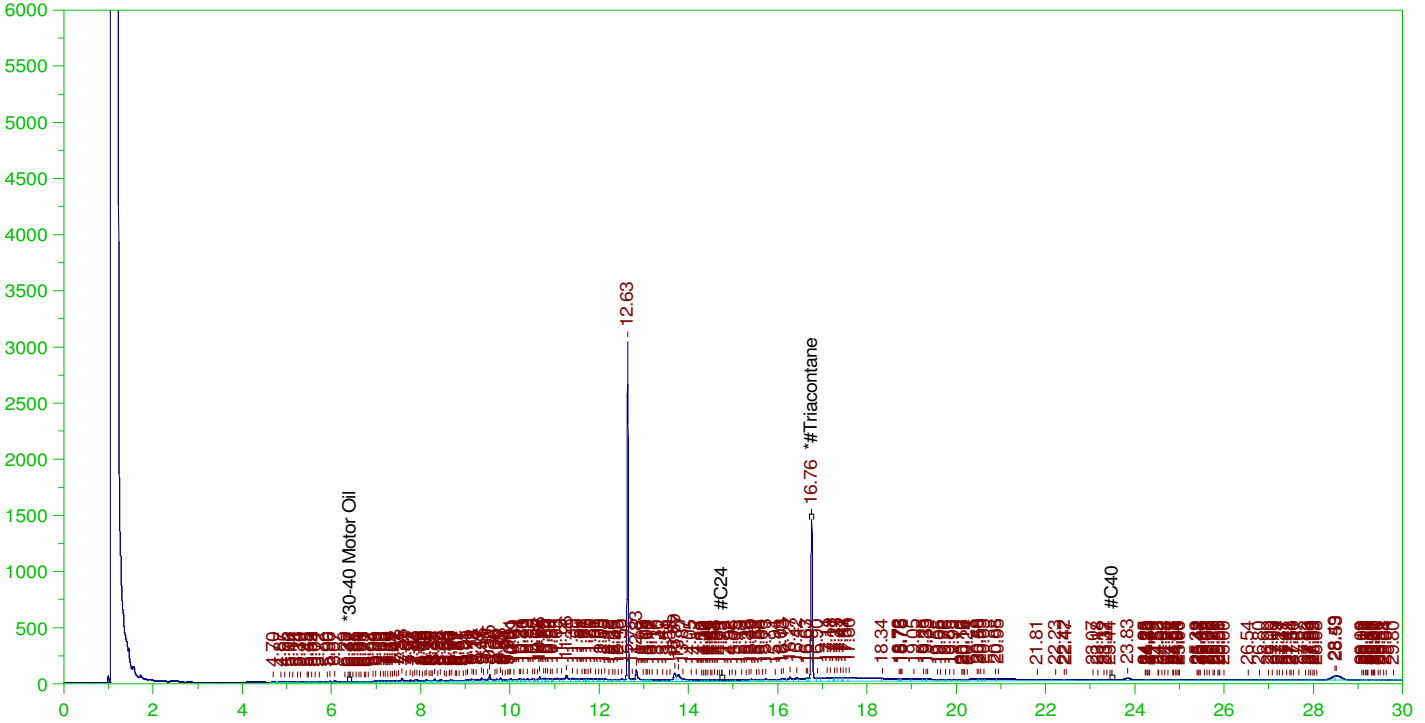
DRO Area:8970960 DRO Amount: 0.2908688
TEH Area:2.110624E+07 TEH Amount: 0.6843358

ERH2278 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0029.RAW

B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0029.RAW
Date & Time Acquired: 1/6/2022 4:06:01 AM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.758	.476	.123	25.85

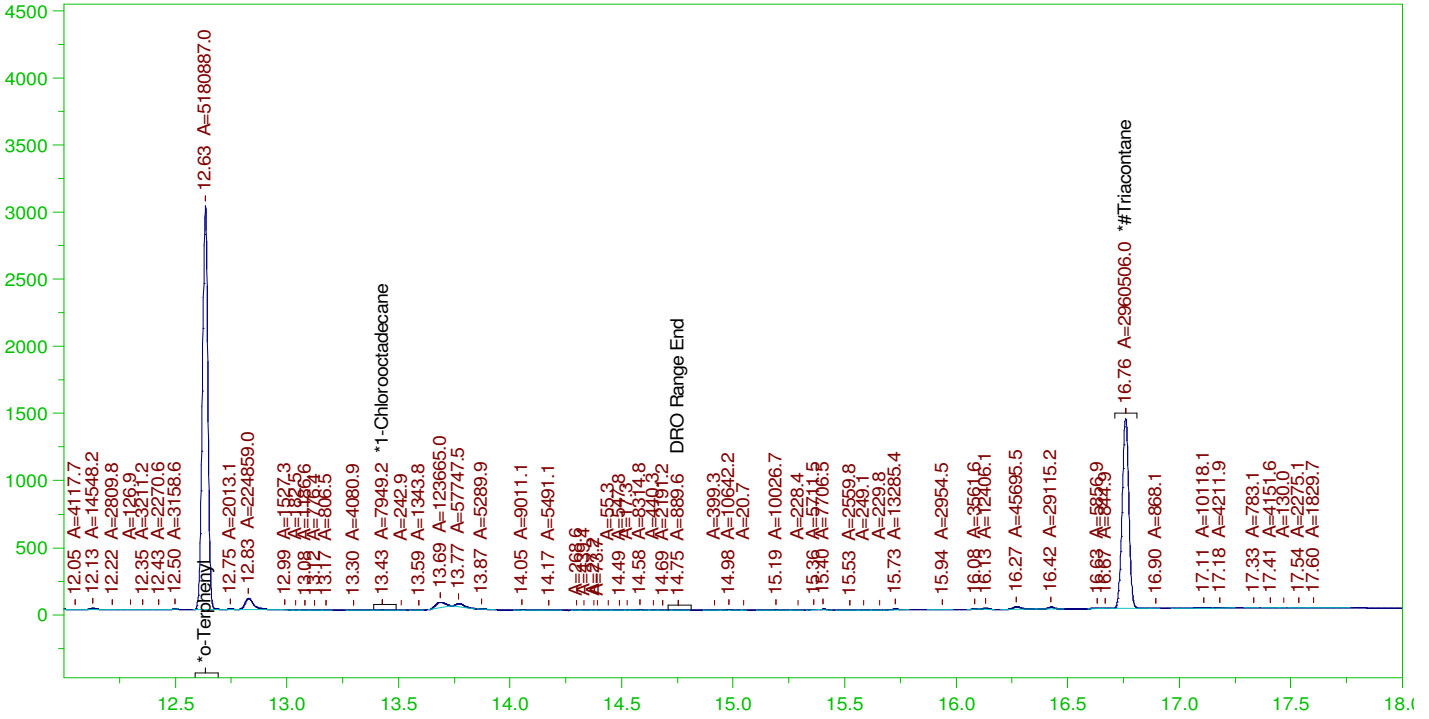
RRO Area:9740899 RRO AMOUNT: 0.3781986

ERH2278 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0029.RAW

B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0029.RAW
Date & Time Acquired: 1/6/2022 4:06:01 AM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.634	.19	.148	77.75	-
*1-Chlorooctadecane	13.428	.19	.	.12	-
*#Triacontane	16.758	.19	.113	59.27	-

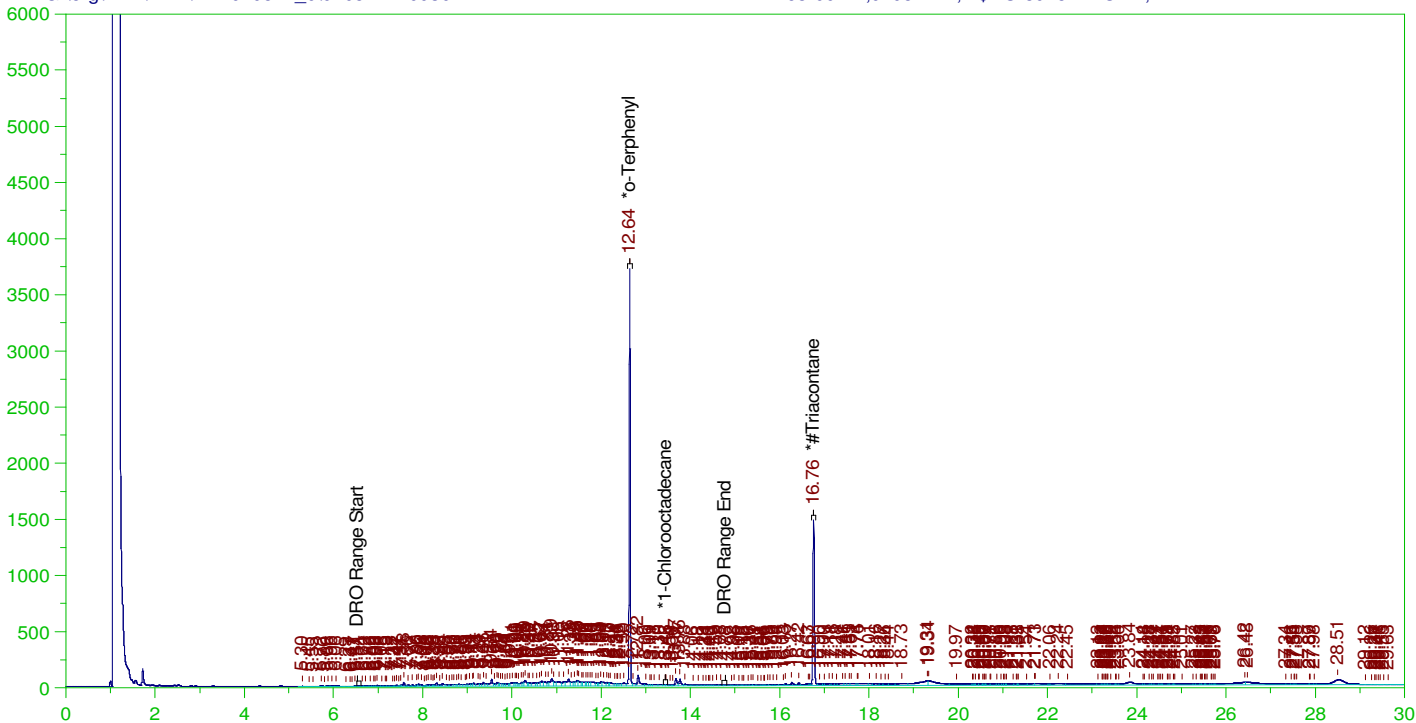
DRO Area:2348964 DRO Amount: 7.616135E-02
TEH Area:3016971 TEH Amount: 9.782041E-02

ERH2279 (RHMW01R)

G:\org\HP4\DAT\HP4010522_b\0105HP4.0030.RAW

Batch ID: 162648

B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0030.RAW
 Date & Time Acquired: 1/6/2022 4:50:51 AM
 Method File: G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.19	.187	98.41	-
*1-Chlorooctadecane	13.433	.19	.001	.43	-
*#Triacontane	16.757	.19	.121	63.47	-

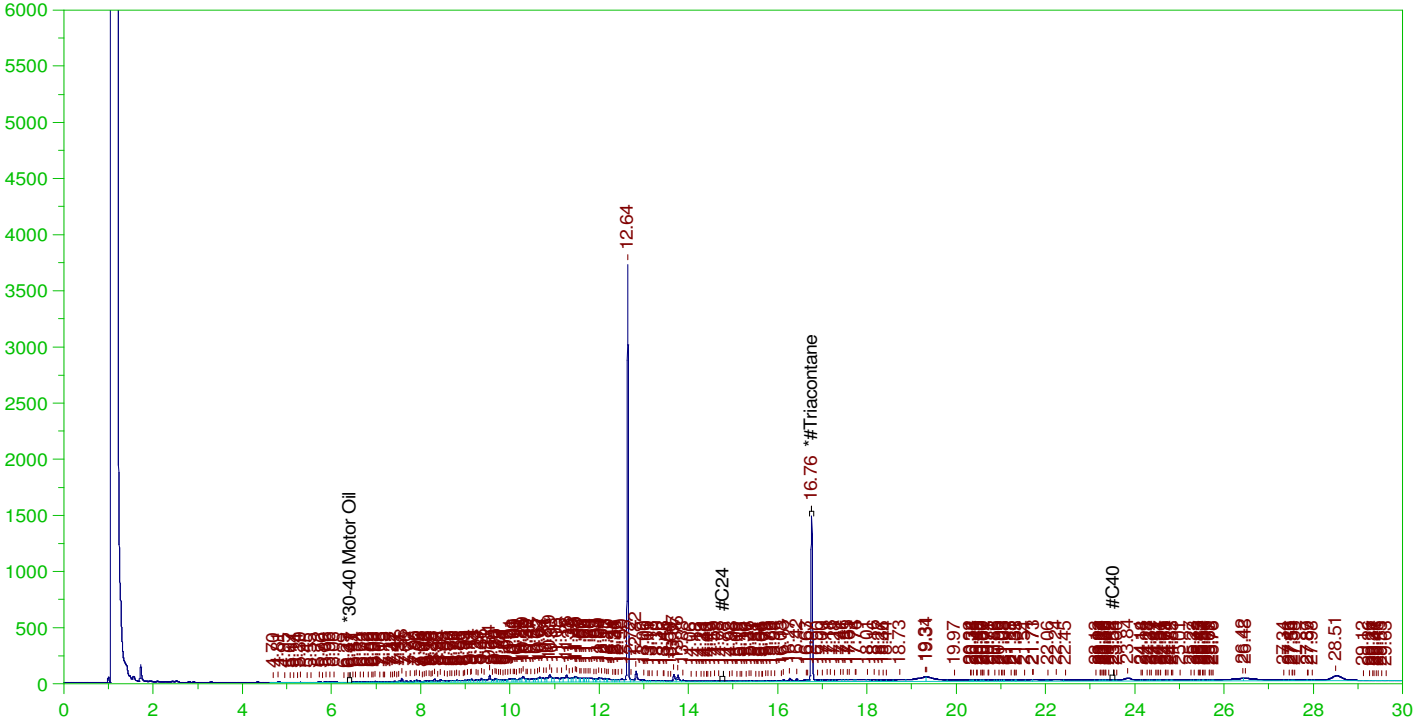
DRO Area:8747491 DRO Amount: 0.2836232
 TEH Area:1.832561E+07 TEH Amount: 0.5941782

ERH2279 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0030.RAW

B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0030.RAW
Date & Time Acquired: 1/6/2022 4:50:51 AM
Method File: G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC-SAMPLE.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.71 to 23.55

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.757	.476	.121	25.39	-

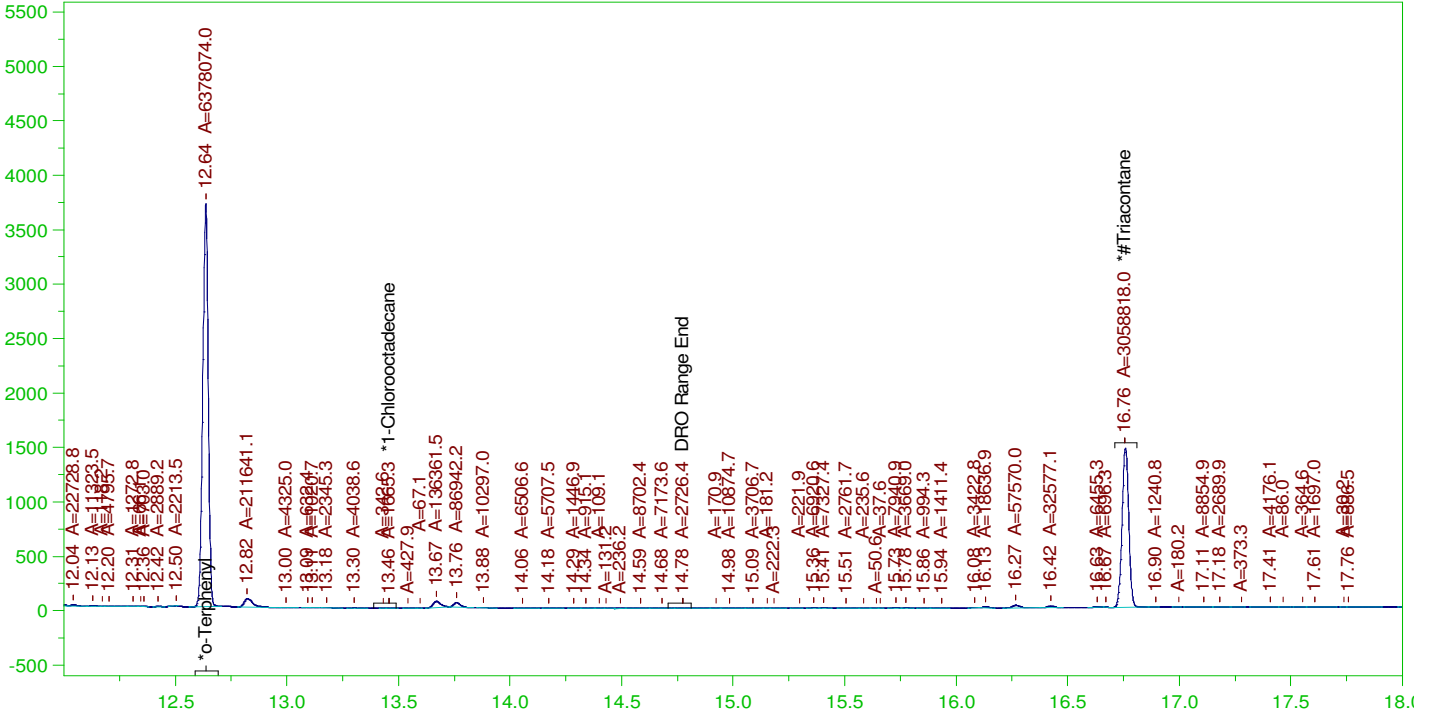
RRO Area:6274947 RRO AMOUNT: 0.2436301

ERH2279 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010522_b\0105HP4.0030.RAW

B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

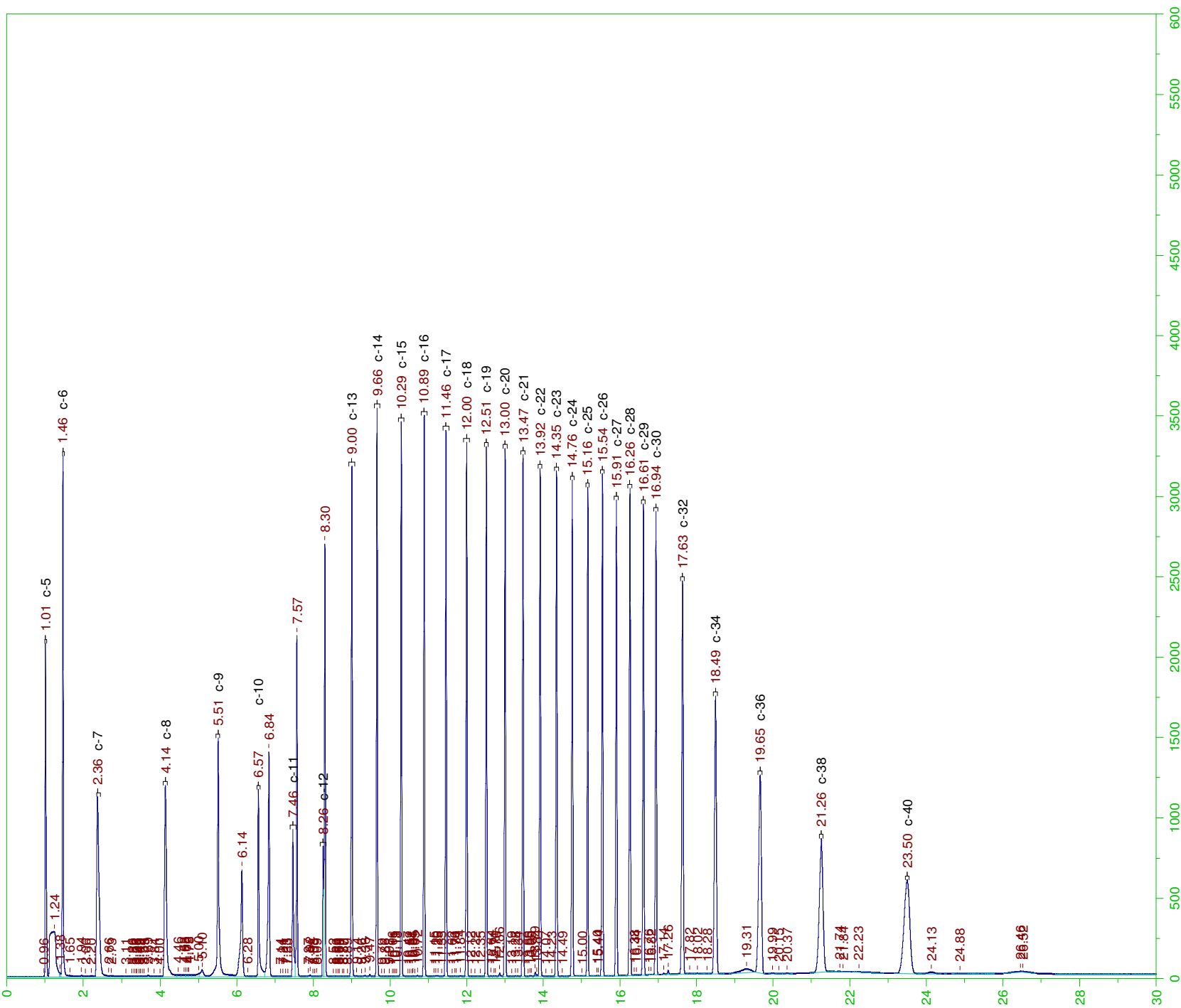
Sample Name: B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0030.RAW
Date & Time Acquired: 1/6/2022 4:50:51 AM
Method File: G:\Org\HP4\methods\DS_8015-T-OI-L#.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24-TRI.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

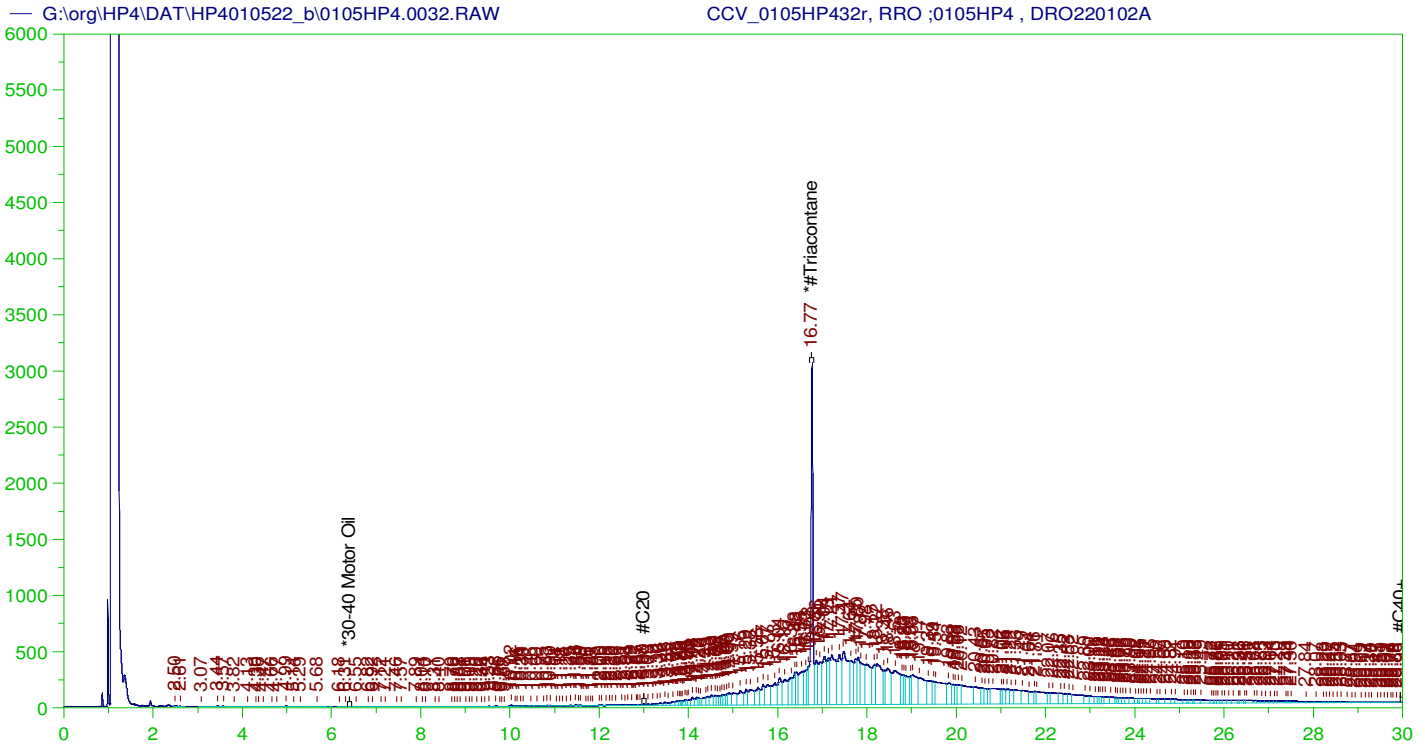
Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.636	.19	.182	95.71	-
*1-Chlorooctadecane	13.459	.19	.	.02	-
*#Triacontane	16.757	.19	.117	61.24	-

DRO Area:2637996 DRO Amount: 8.553273E-02
TEH Area:4065884 TEH Amount: 0.1318297





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP432r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0032.RAW
 Date & Time Acquired: 1/6/2022 6:20:47 AM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.766	500.	340.383	68.08	-

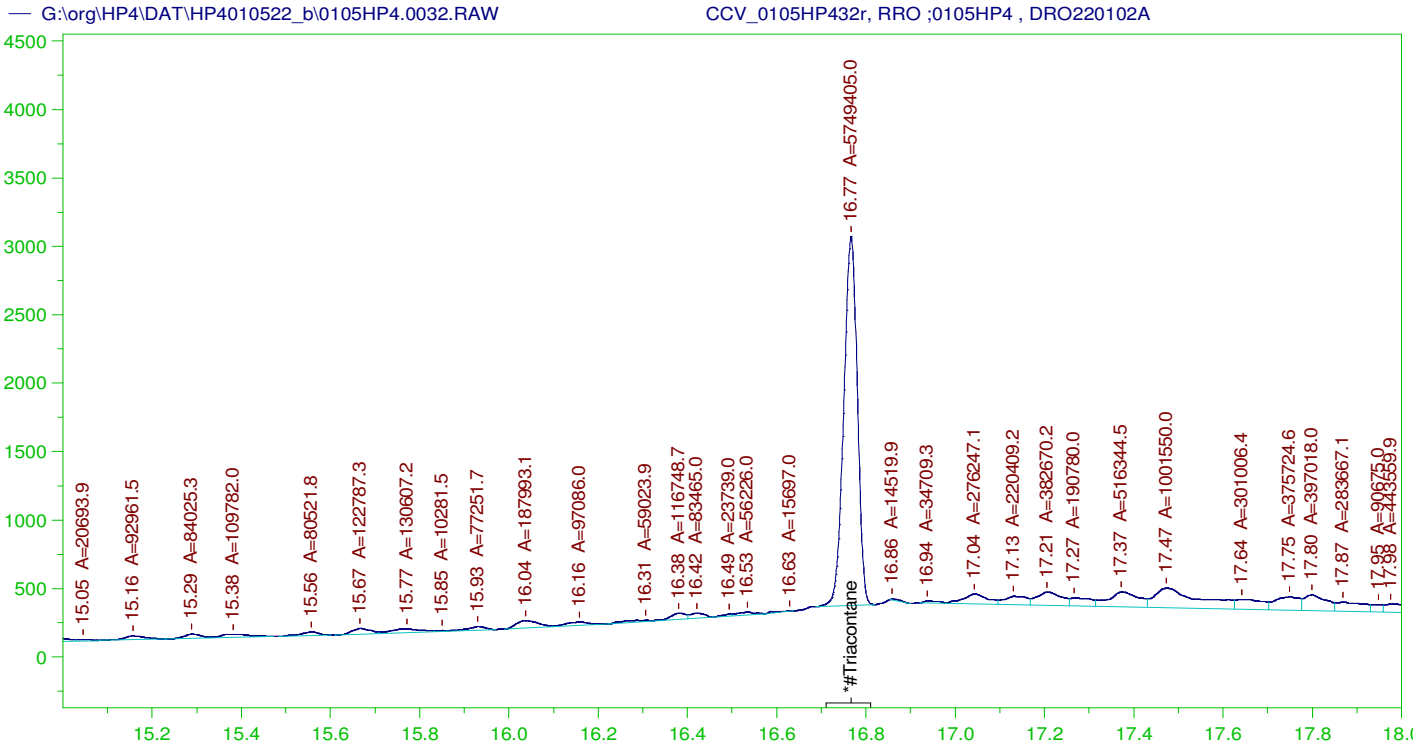
RRO TEH (Oil Range) Area:1.164336E+08 RRO TEH (Oil Range) AMOUNT: 4746.663

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0032.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.766	200.	340.383	170.19	75-125

AMN 01/25/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP432r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0032.RAW
 Date & Time Acquired: 1/6/2022 6:20:47 AM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

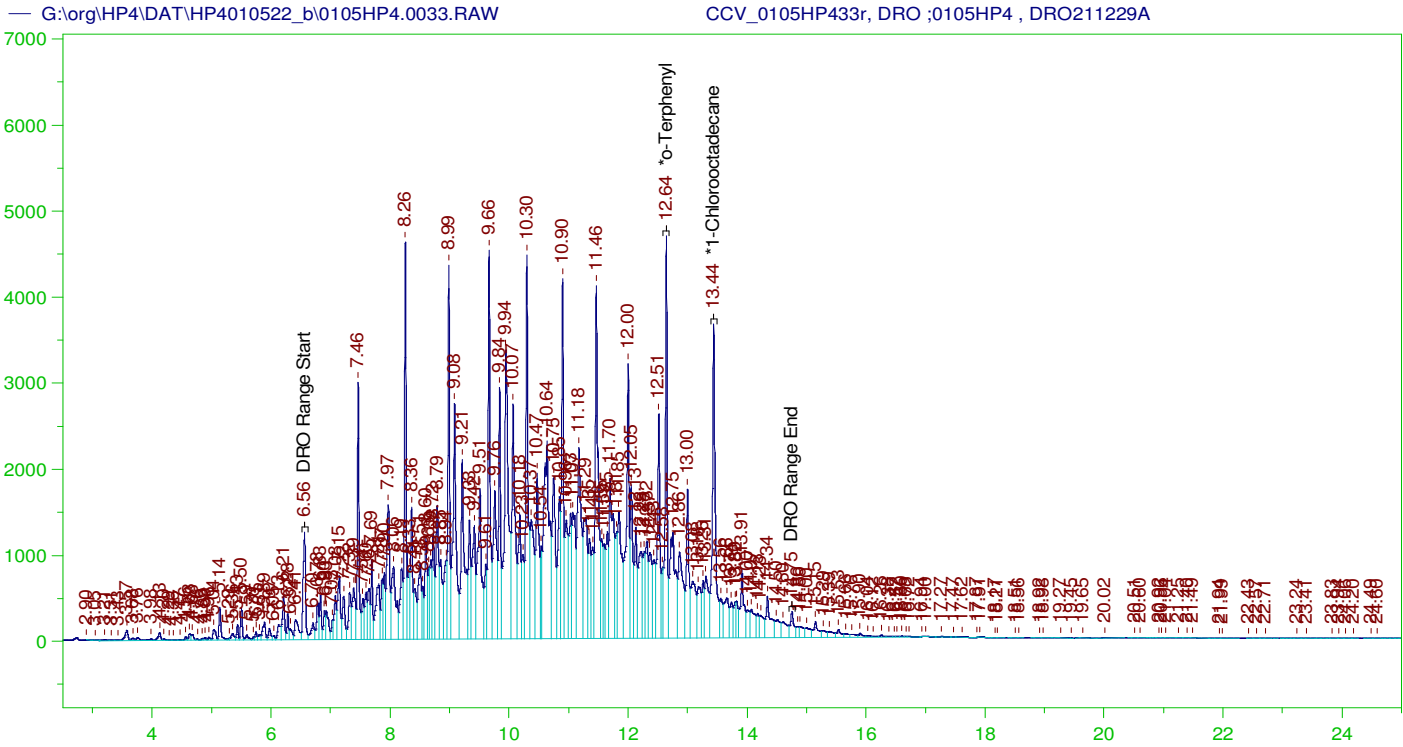
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.766	500.	230.217	46.04	-

RRO Area:1.055944E+07 RRO AMOUNT: 430.478

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0032.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.766	200.	230.217	115.11	75-125



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0105HP433r, DRO ;0105HP4 , DRO211229A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0033.RAW
 Date & Time Acquired: 1/6/2022 7:05:47 AM
 Method File: G:\Org\HP4\methods\DC_8015-C24-OI-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.52 to 14.81

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.642	200.	324.642	162.32
*1-Chlorooctadecane	13.439	200.	369.249	184.62

DRO Area: 4.443882E+08 DRO Amount: 15129
 TEH Area: 4.607541E+08 TEH Amount: 15686.17

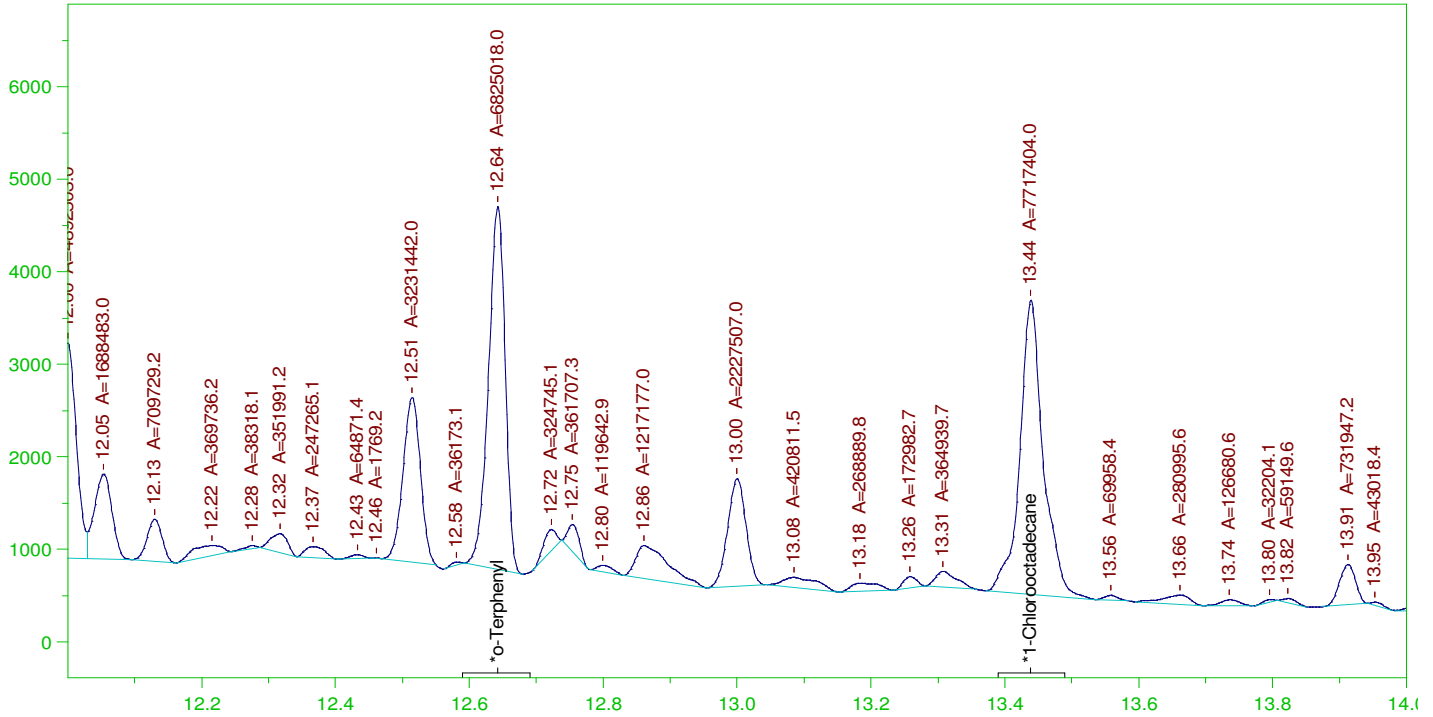
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0033.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15686.17	104.57	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.642	200.	324.642	162.32	85-115
*1-Chlorooctadecane	13.439	200.	369.249	184.62	85-115

G:\org\HP4\DAT\HP4010522_b\0105HP4.0033.RAW

CCV_0105HP433r, DRO ;0105HP4 , DRO211229A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0105HP433r, DRO ;0105HP4 , DRO211229A
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0033.RAW
 Date & Time Acquired: 1/6/2022 7:05:47 AM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OI-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OI-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.52 to 14.81

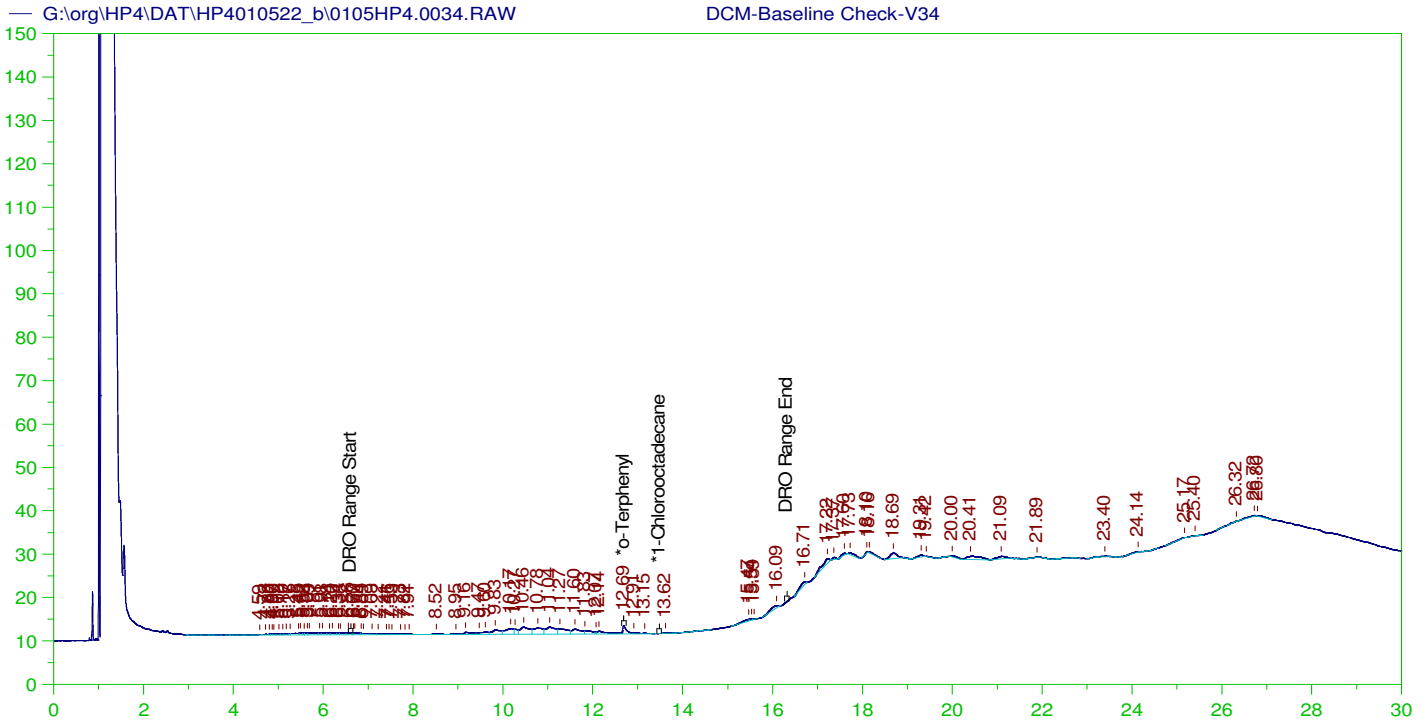
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.642	200.	204.834	102.42
*1-Chlorooctadecane	13.439	200.	231.617	115.81

DRO Area: 1.961419E+08 DRO Amount: 6677.562
 TEH Area: 2.065052E+08 TEH Amount: 7030.375

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010522_b\0105HP4.0033.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	7030.38	46.87	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.642	200.	204.834	102.42	85-115
*1-Chlorooctadecane	13.439	200.	231.617	115.81	85-115



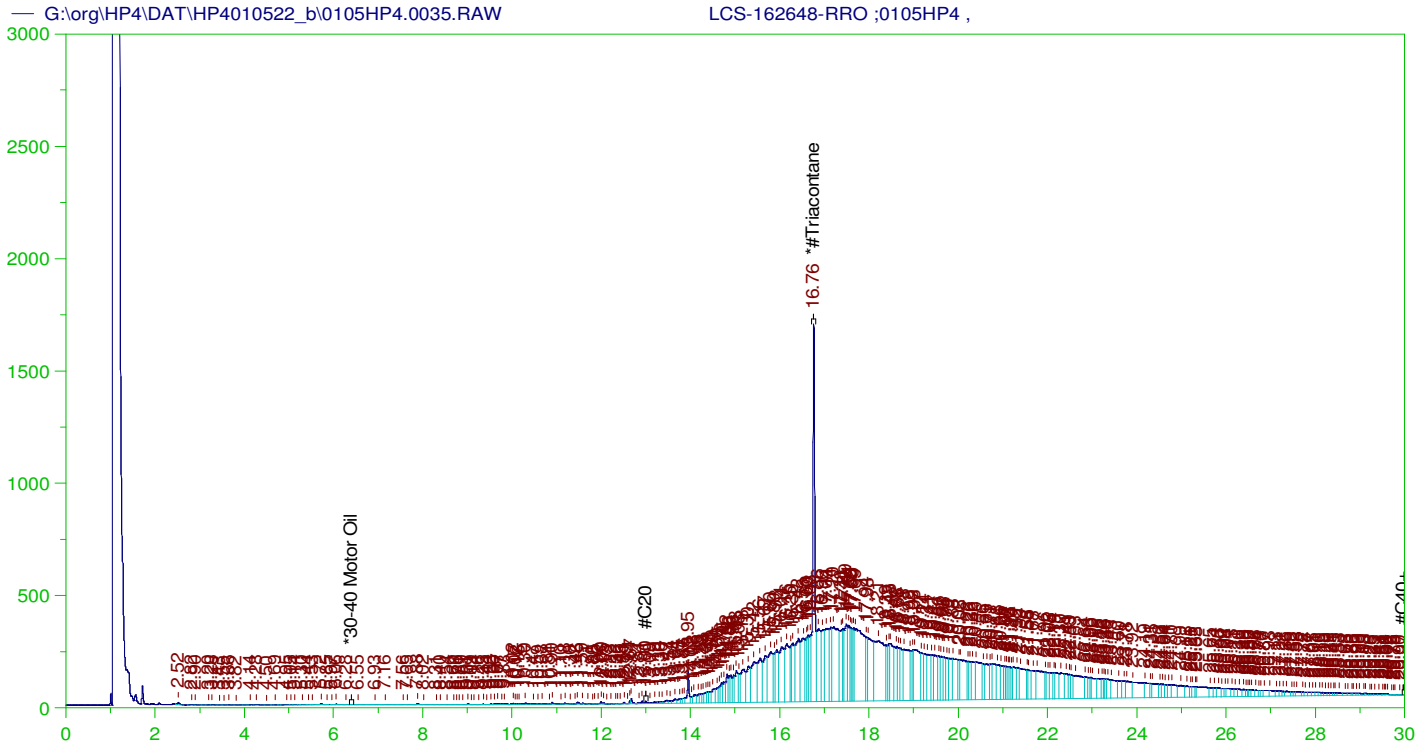
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V34
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0034.RAW
 Date & Time Acquired: 1/6/2022 7:50:51 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.685	200.	.336	.17
*1-Chlorooctadecane	26.796	200.	.	.

DRO Area:208955.7 DRO Amount: 7.113802
 TEH Area:360967 TEH Amount: 12.28896



RESIDUAL RANGE ORGANICS CHROMATOGRAM

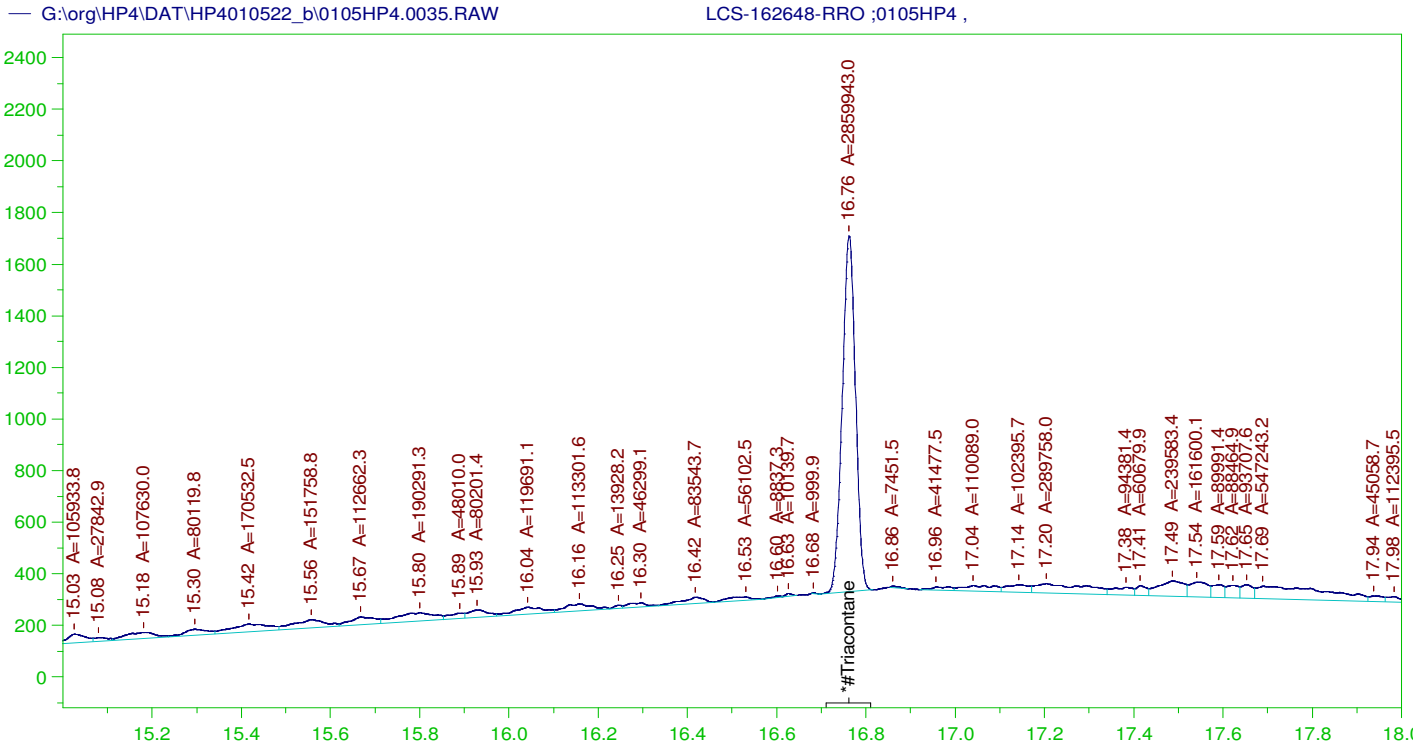
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 Method File: G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.762	.5	.2	40.06

RRO TEH (Oil Range) Area:1.144854E+08 RRO TEH (Oil Range) AMOUNT: 4.667243

AMN 01/25/2022



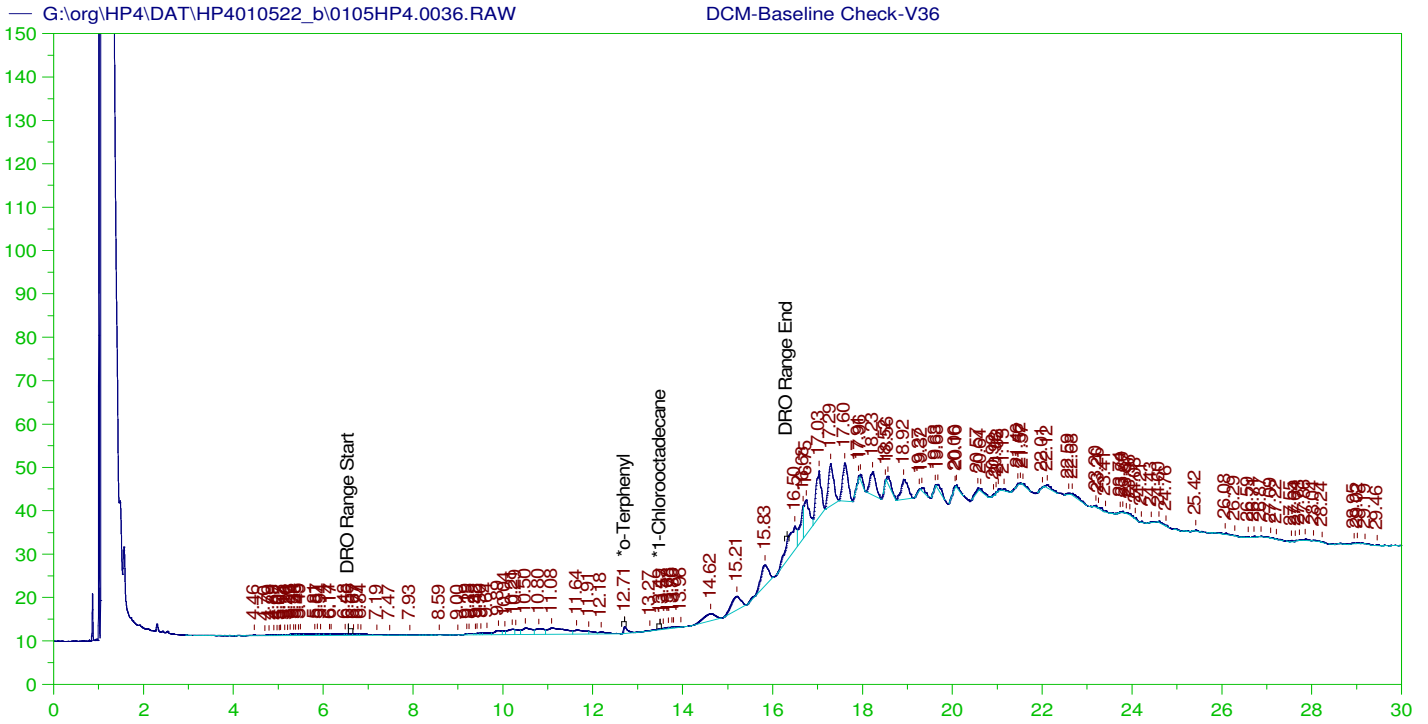
RESIDUAL RANGE ORGANICS CHROMATOGRAM

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 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.762	.5	.115	22.9

RRO Area:6221012 RRO AMOUNT: 0.2536128



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

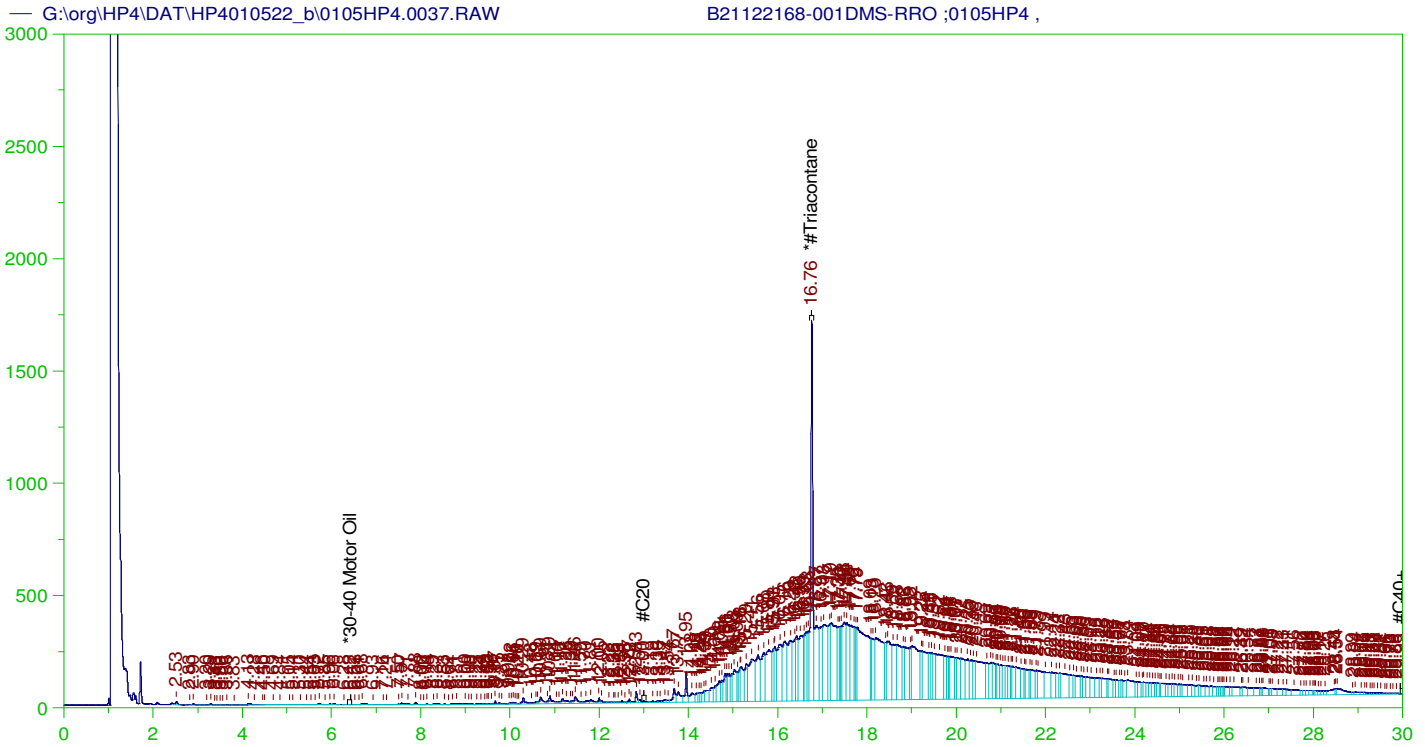
Sample Name: DCM-Baseline Check-V36
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 Date & Time Acquired: 1/6/2022 9:21:42 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.71	200.	.271	.14	-
*1-Chlorooctadecane	13.495	200.	.067	.03	-

DRO Area:321841.3 DRO Amount: 10.95694
 TEH Area:1034865 TEH Amount: 35.23151



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-001DMS-RRO ;0105HP4 ,
 Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0037.RAW
 Date & Time Acquired: 1/6/2022 10:06:58 AM
 Method File: G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

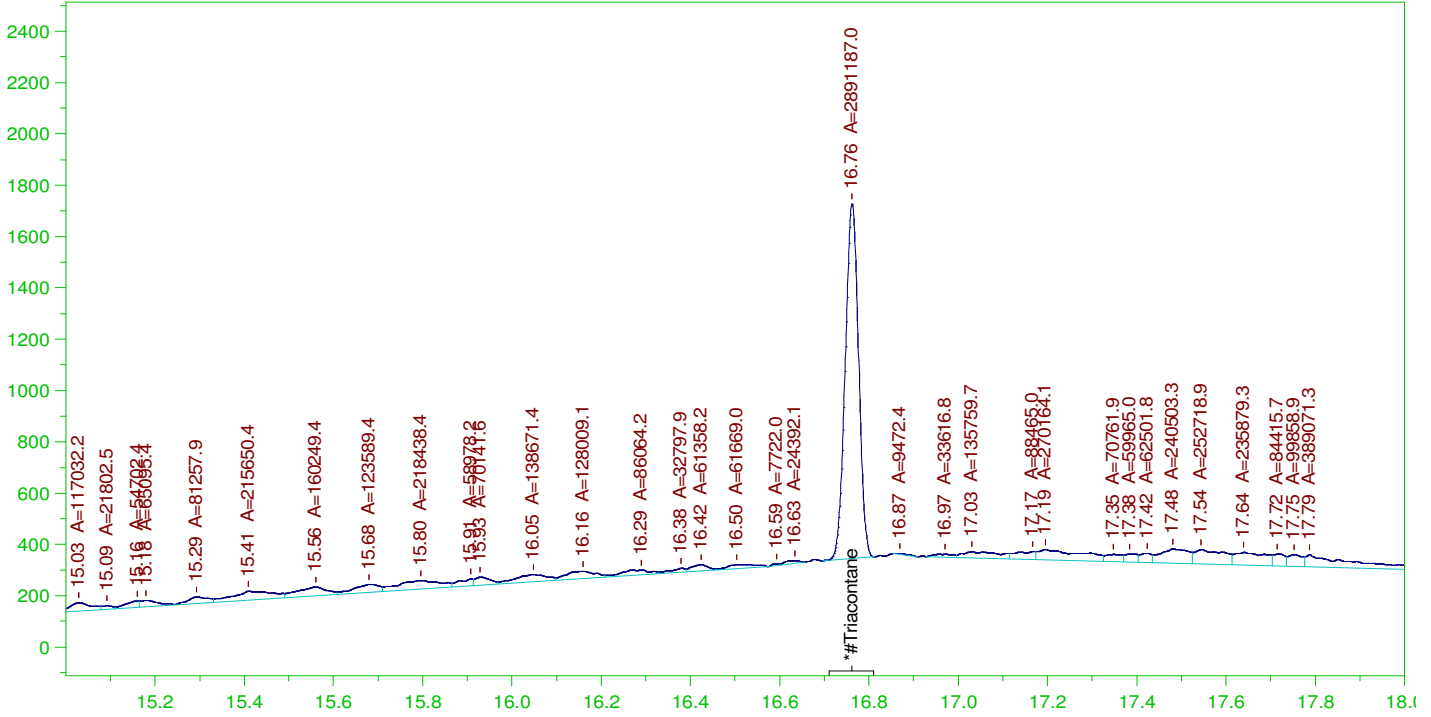
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.762	.49	.199	40.64	-

RRO TEH (Oil Range) Area:1.182933E+08 RRO TEH (Oil Range) AMOUNT: 4.727922

AMN 01/25/2022

G:\org\HP4\DAT\HP4010522_b\0105HP4.0037.RAW

B21122168-001DMS-RRO ;0105HP4 ,



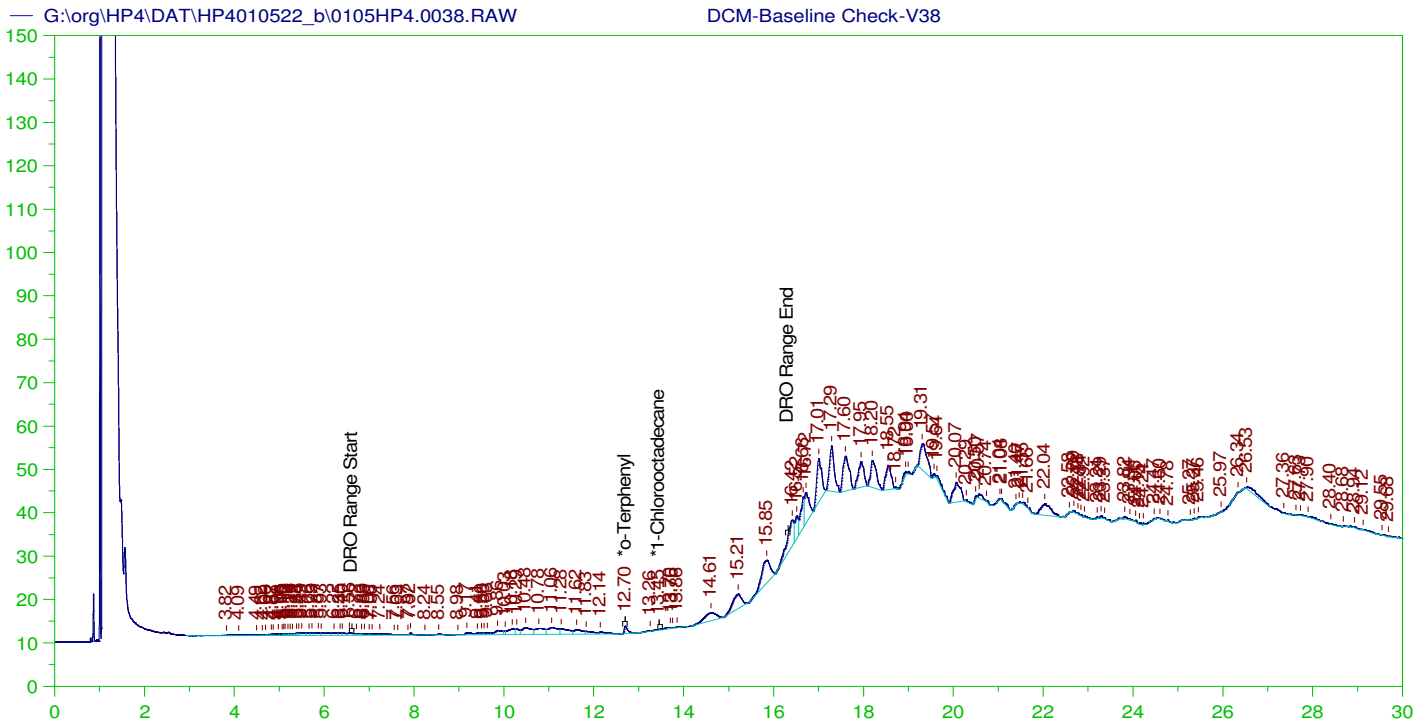
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-001DMS-RRO ;0105HP4 ,
Raw File: G:\org\HP4\DAT\HP4010522_b\0105HP4.0037.RAW
Date & Time Acquired: 1/6/2022 10:06:58 AM
Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.762	.49	.113	23.15

RRO Area:7001074 RRO AMOUNT: 0.2798174



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

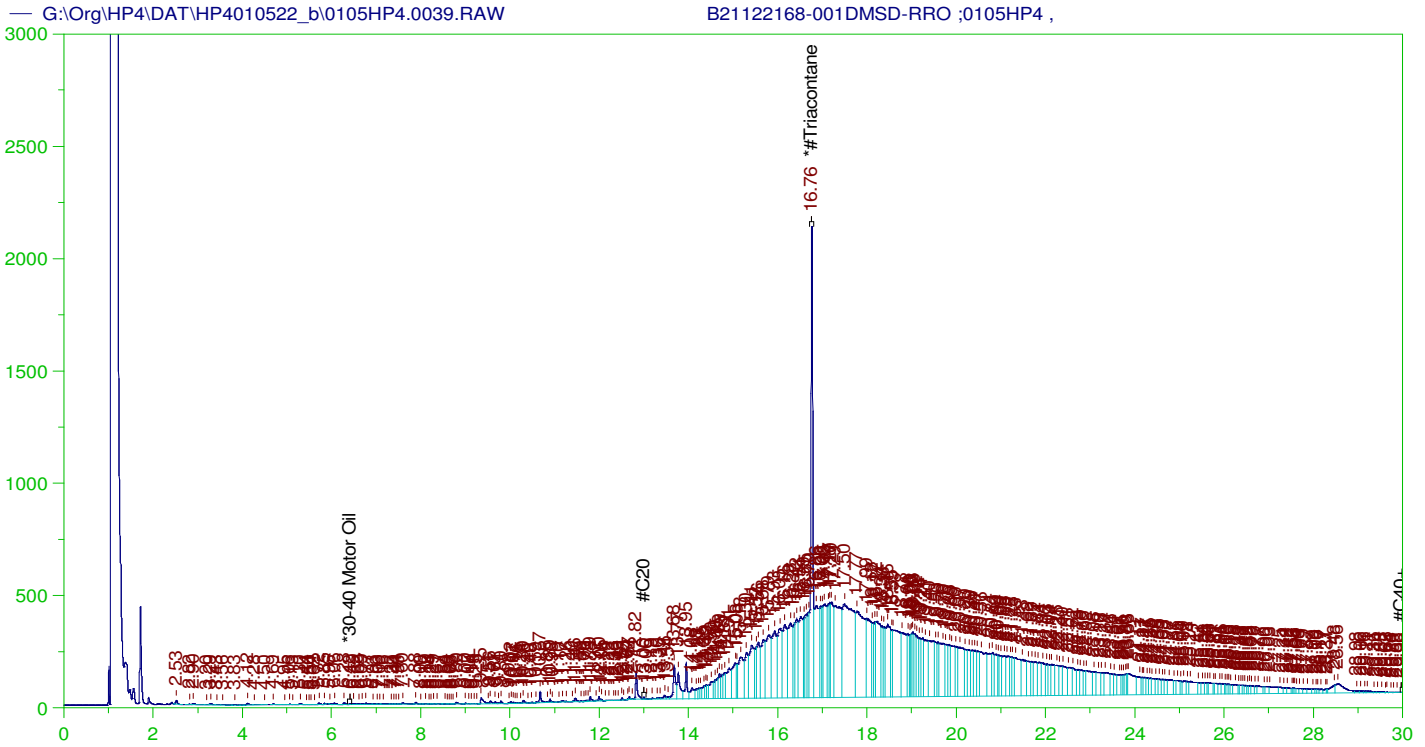
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 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.7	200.	.284	.14	-
*1-Chlorooctadecane	13.451	200.	.045	.02	-

DRO Area:351617 DRO Amount: 11.97064
 TEH Area:1247084 TEH Amount: 42.45641



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-001DMSD-RRO ;0105HP4 ,
 Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0039.RAW
 Date & Time Acquired: 1/6/2022 11:37:49 AM
 Method File: G:\Org\HP4\Methods\D3_ORO-T -AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

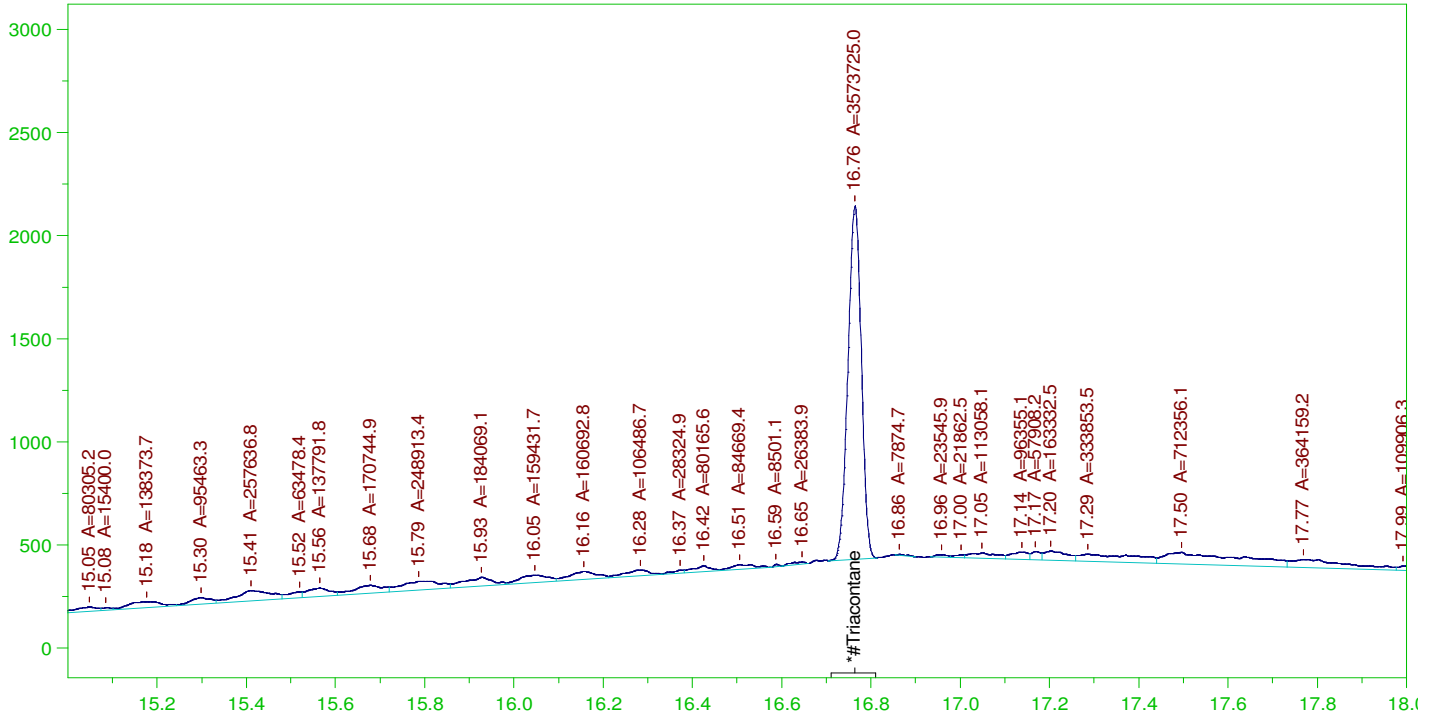
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.764	.476	.231	48.6	-

RRO TEH (Oil Range) Area:1.422924E+08 RRO TEH (Oil Range) AMOUNT: 5.524624

AMN 01/25/2022

G:\Org\HP4\DAT\HP4010522_b\0105HP4.0039.RAW

B21122168-001DMSD-RRO ;0105HP4 ,



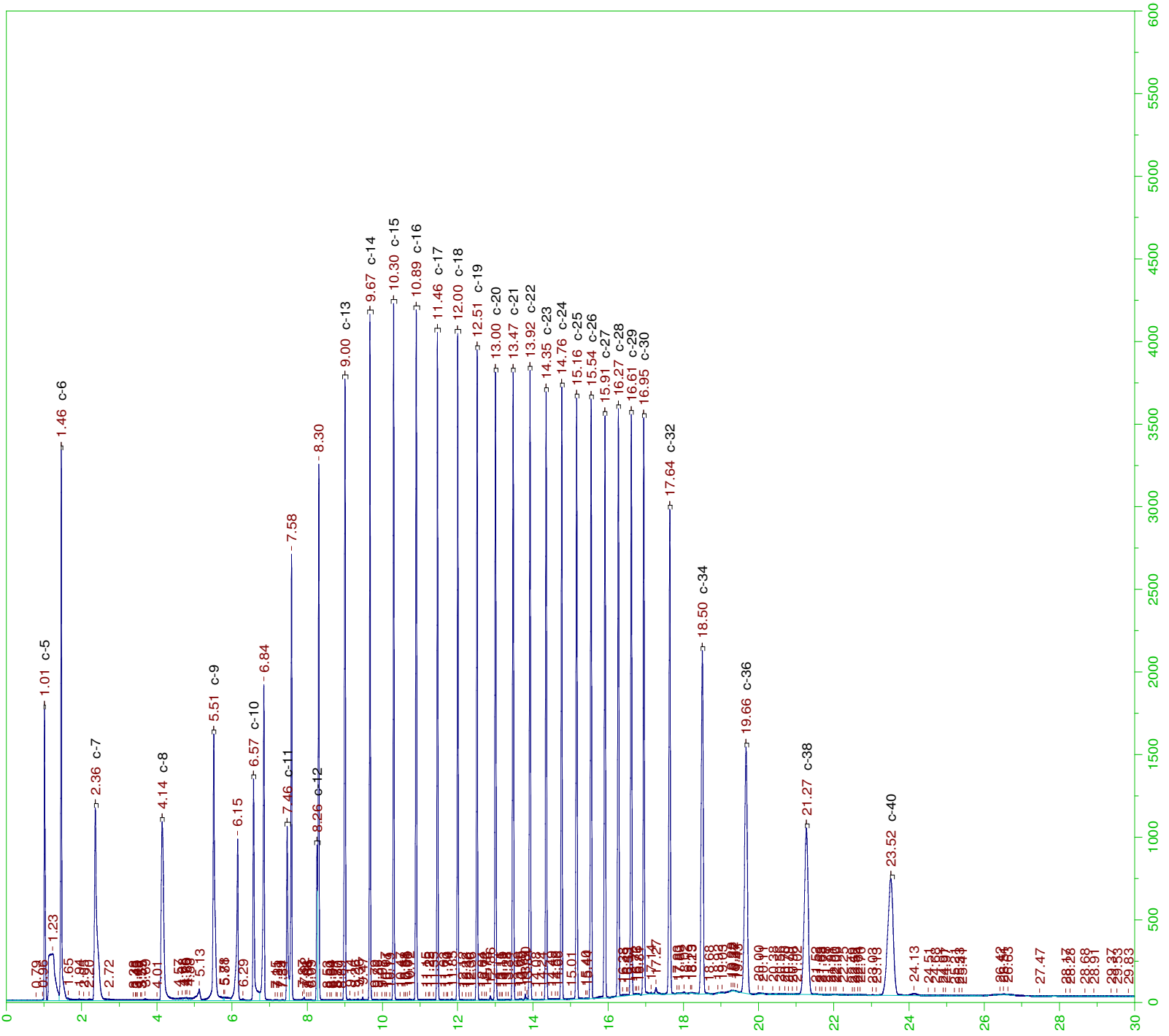
RESIDUAL RANGE ORGANICS CHROMATOGRAM

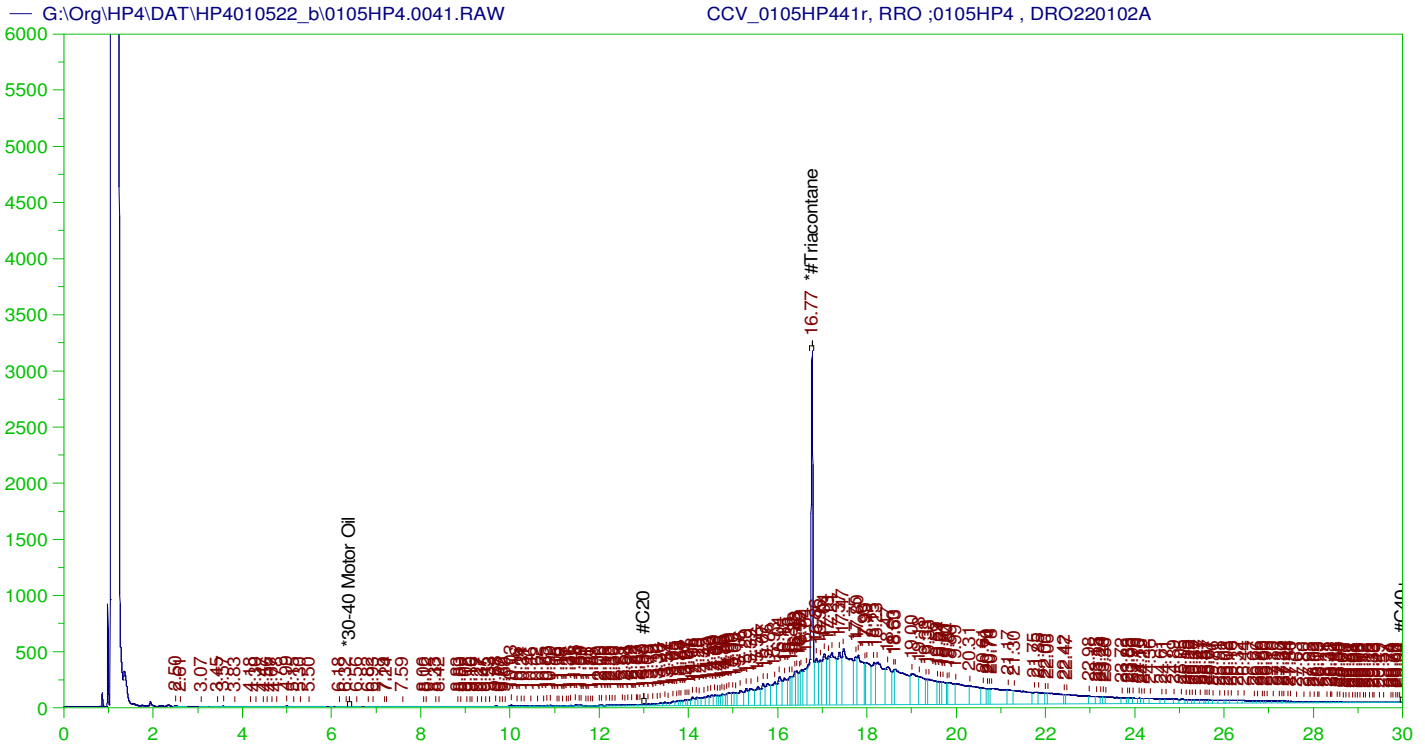
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 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane_____	16.764	.476	.136	28.62

RRO Area:8272379 RRO AMOUNT: 0.3211821





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP441r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0041.RAW
 Date & Time Acquired: 1/6/2022 1:08:43 PM
 Method File: G:\Org\HP4\Methods\Dc_ORO-T-Ac-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.767	500.	389.164	77.83	-

RRO TEH (Oil Range) Area:1.179846E+08 RRO TEH (Oil Range) AMOUNT: 4809.896

CONTINUING CALIBRATION REPORT: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0041.RAW

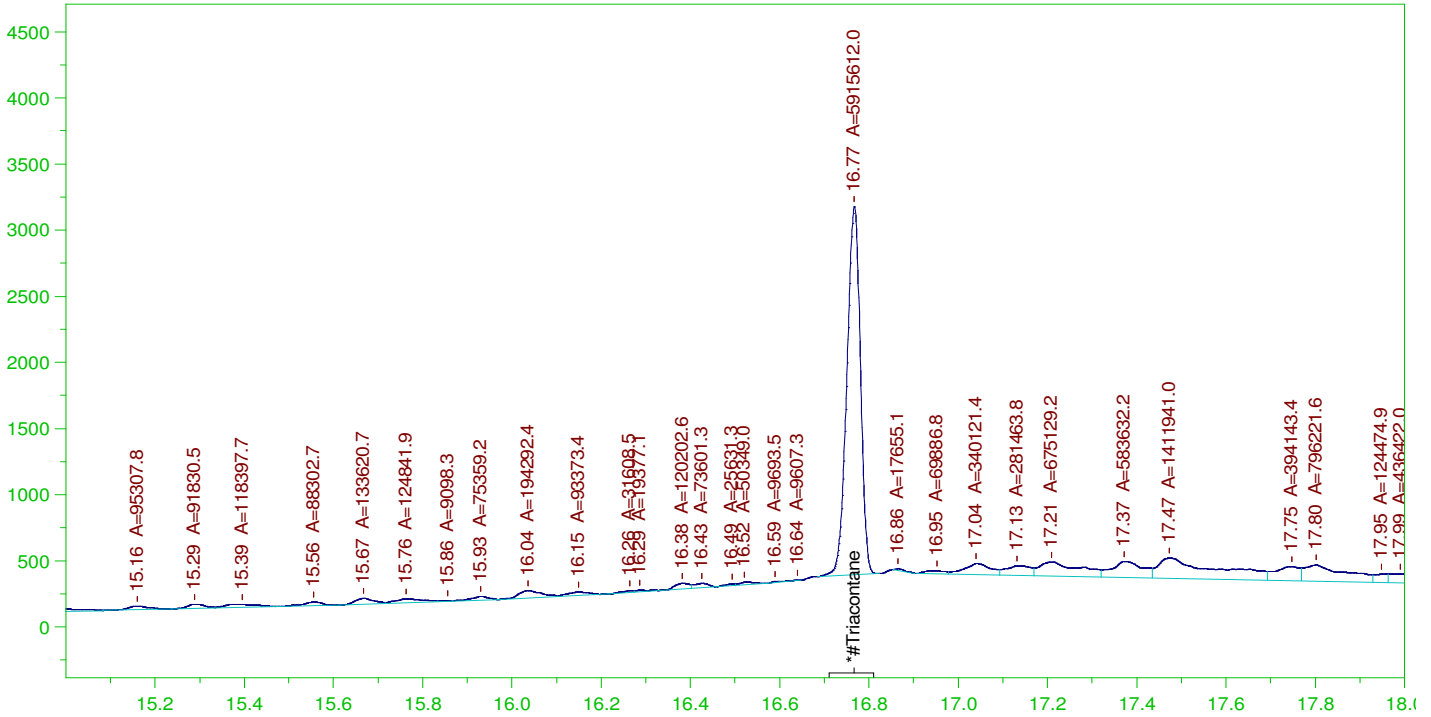
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.	75-125	

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.767	200.	389.164	194.58	75-125

AMN 01/25/2022

G:\Org\HP4\DAT\HP4010522_b\0105HP4.0041.RAW

CCV_0105HP441r, RRO ;0105HP4 , DRO220102A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0105HP441r, RRO ;0105HP4 , DRO220102A
 Raw File: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0041.RAW
 Date & Time Acquired: 1/6/2022 1:08:43 PM
 Method File: G:\Org\HP4\Methods\Ds_ORO-T-Ac-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

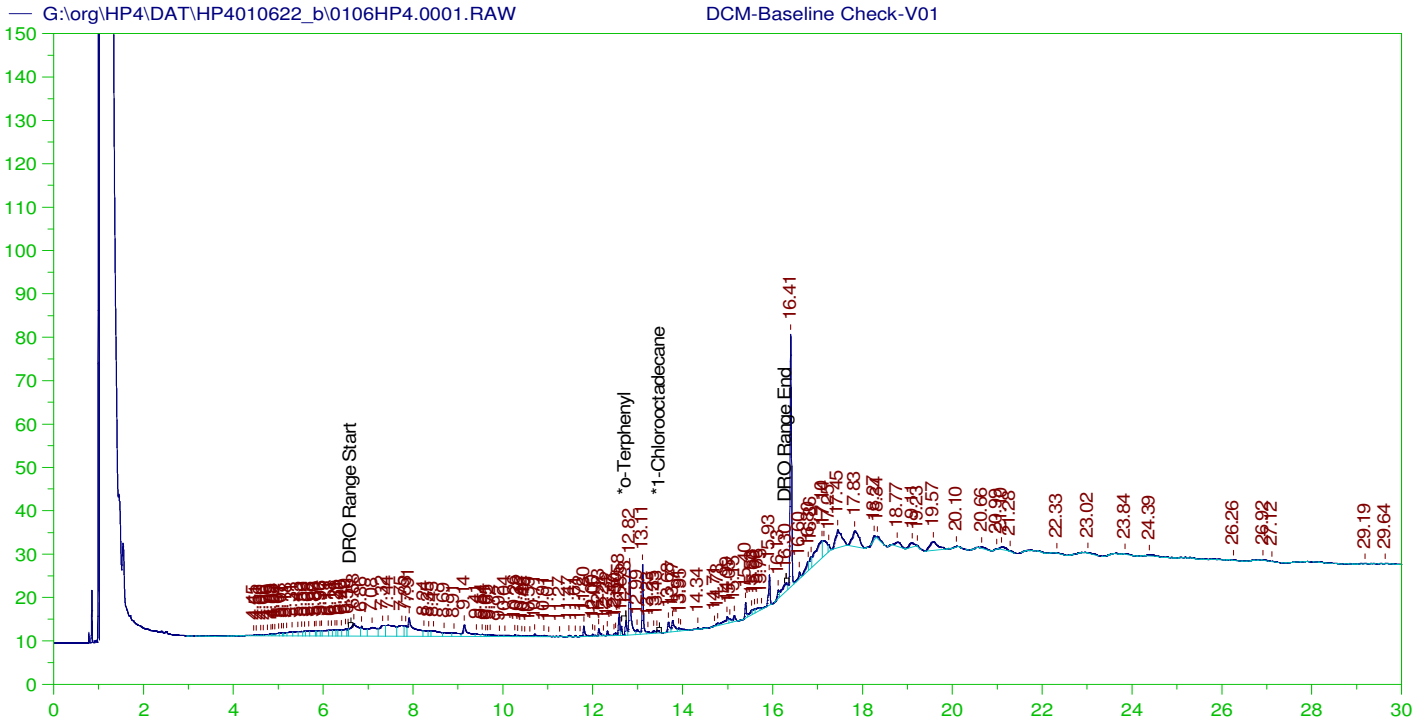
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.767	500.	236.873	47.37

RRO Area:1.111534E+07 RRO AMOUNT: 453.1404

CONTINUING CALIBRATION REPORT: G:\Org\HP4\DAT\HP4010522_b\0105HP4.0041.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.767	200.	236.873	118.44	75-125



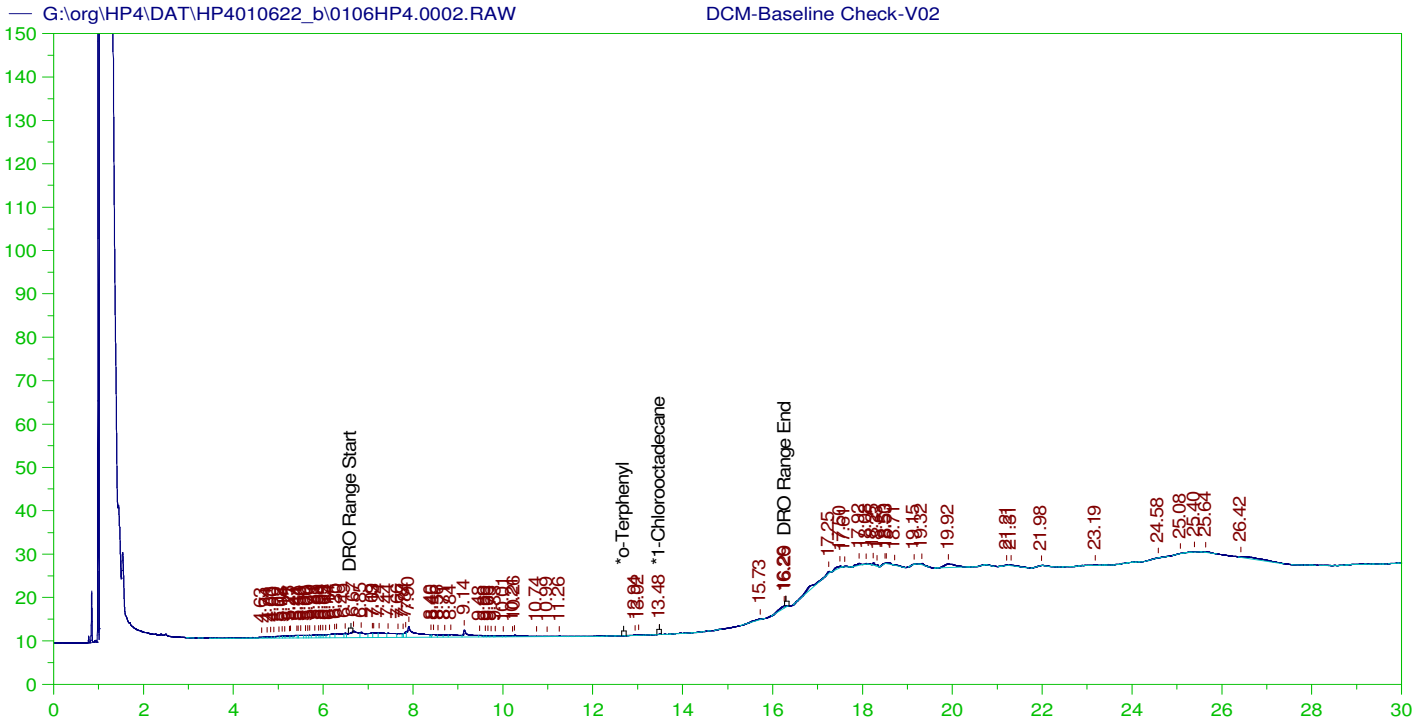
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V01
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 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.734	200.	.249	.12
*1-Chlorooctadecane	29.968	200.	.	.

DRO Area:553480.9 DRO Amount: 18.84301
 TEH Area:1067678 TEH Amount: 36.3486



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

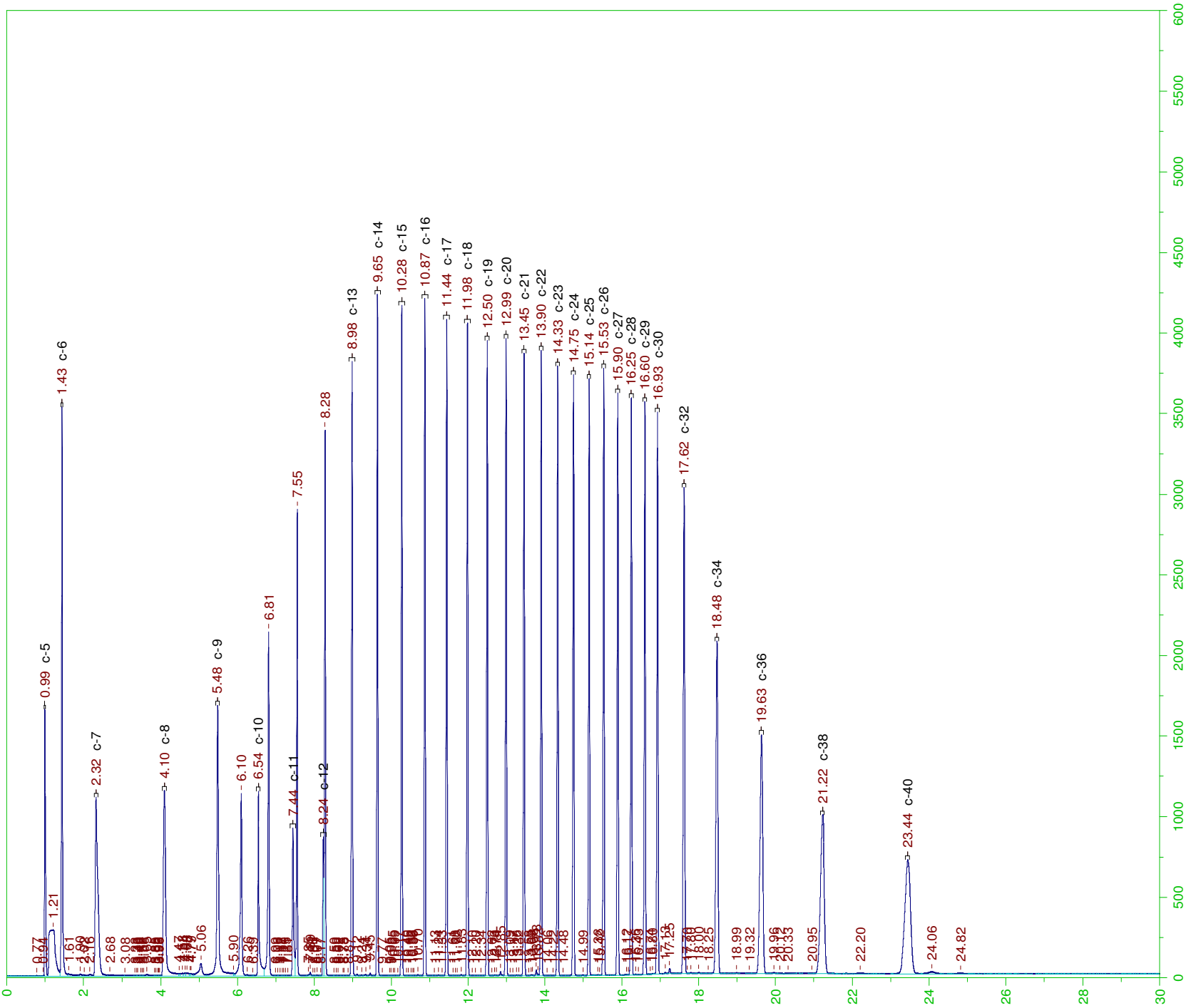
Sample Name: DCM-Baseline Check-V02
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0002.RAW
 Date & Time Acquired: 1/6/2022 5:27:55 PM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

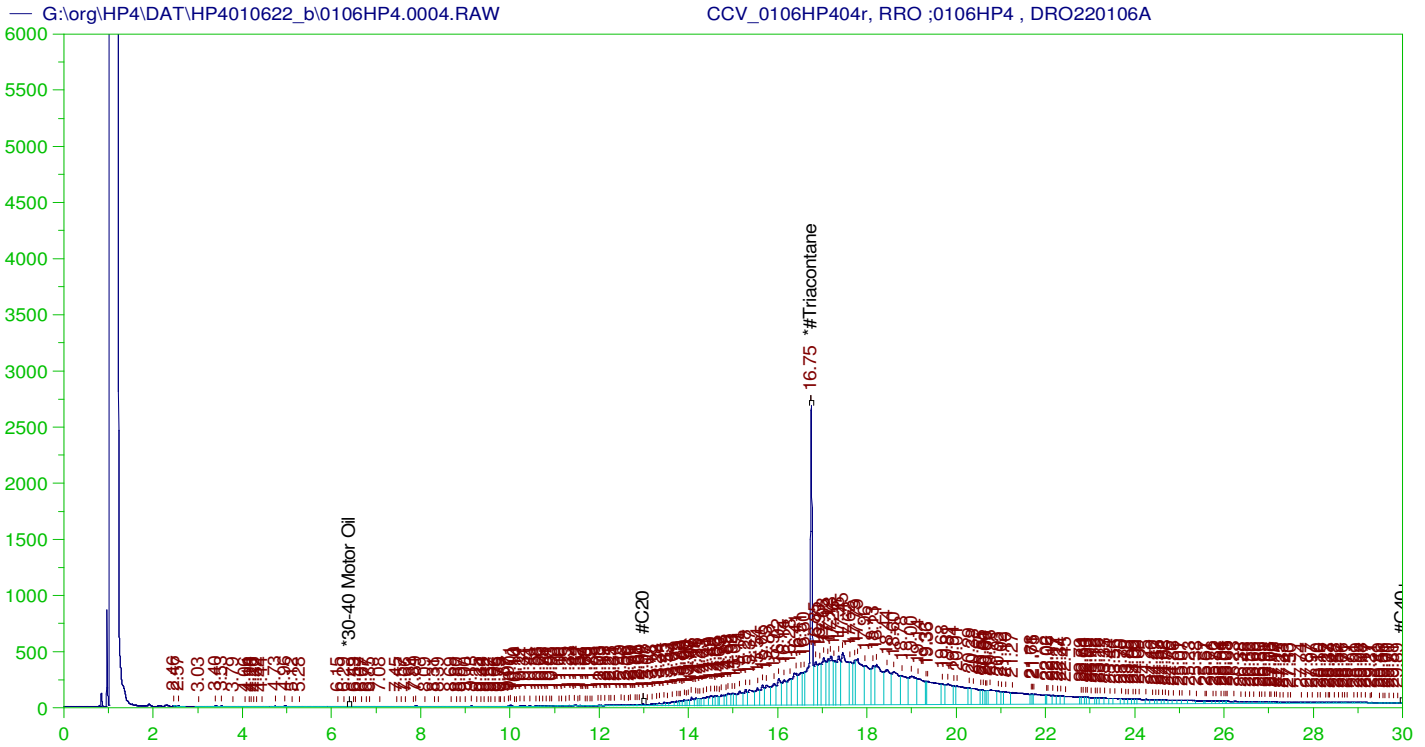
Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	29.973	200.	.	-
*1-Chlorooctadecane	13.481	200.	.017	.01 -

DRO Area:185110 DRO Amount: 6.301986
 TEH Area:326495.3 TEH Amount: 11.11539





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP404r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0004.RAW
 Date & Time Acquired: 1/6/2022 6:57:52 PM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.751	500.	345.856	69.17	-

RRO TEH (Oil Range) Area:1.073566E+08 RRO TEH (Oil Range) AMOUNT: 4376.621

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0004.RAW

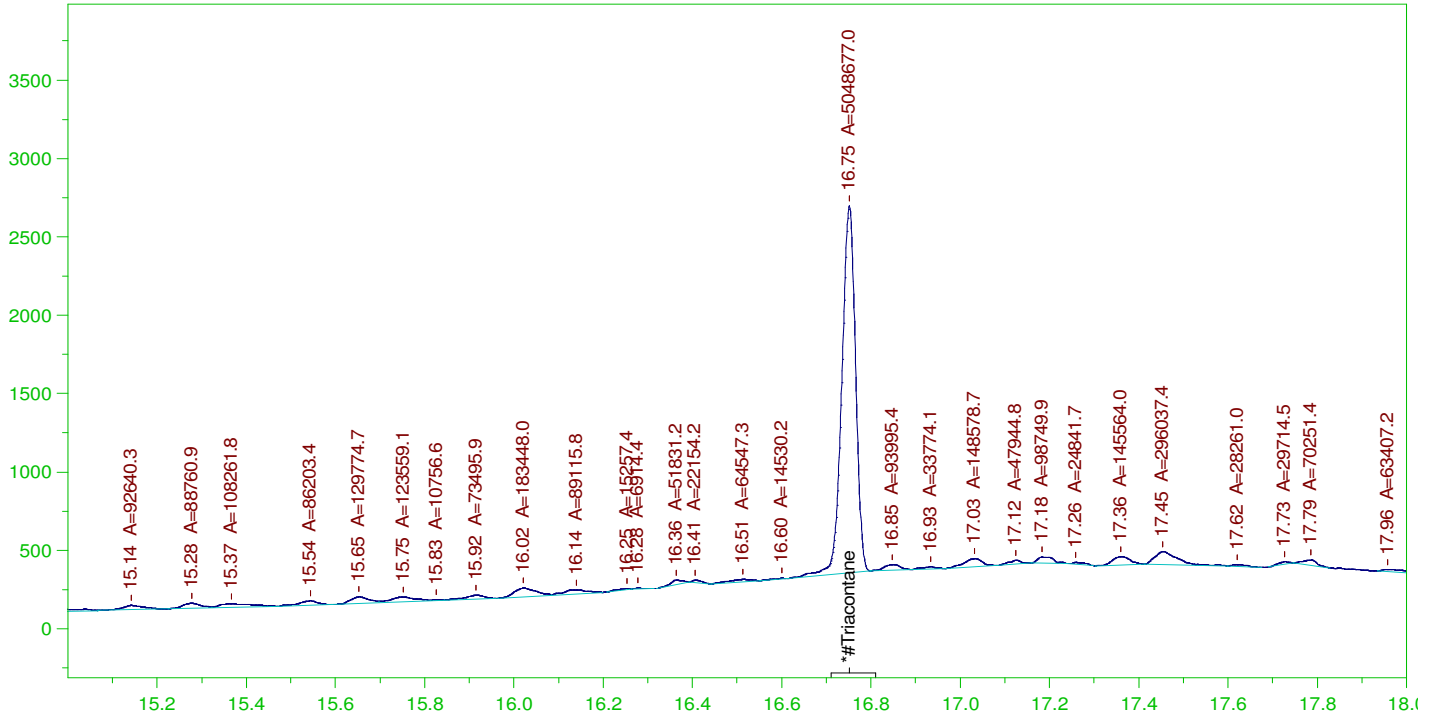
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.	75-125	

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.751	200.	345.856	172.93	75-125

AMN 01/26/2022

G:\org\HP4\DAT\HP4010622_b\0106HP4.0004.RAW

CCV_0106HP404r, RRO ;0106HP4 , DRO220106A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP404r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0004.RAW
 Date & Time Acquired: 1/6/2022 6:57:52 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.751	500.	202.159	40.43

RRO Area:4304519 RRO AMOUNT: 175.4829

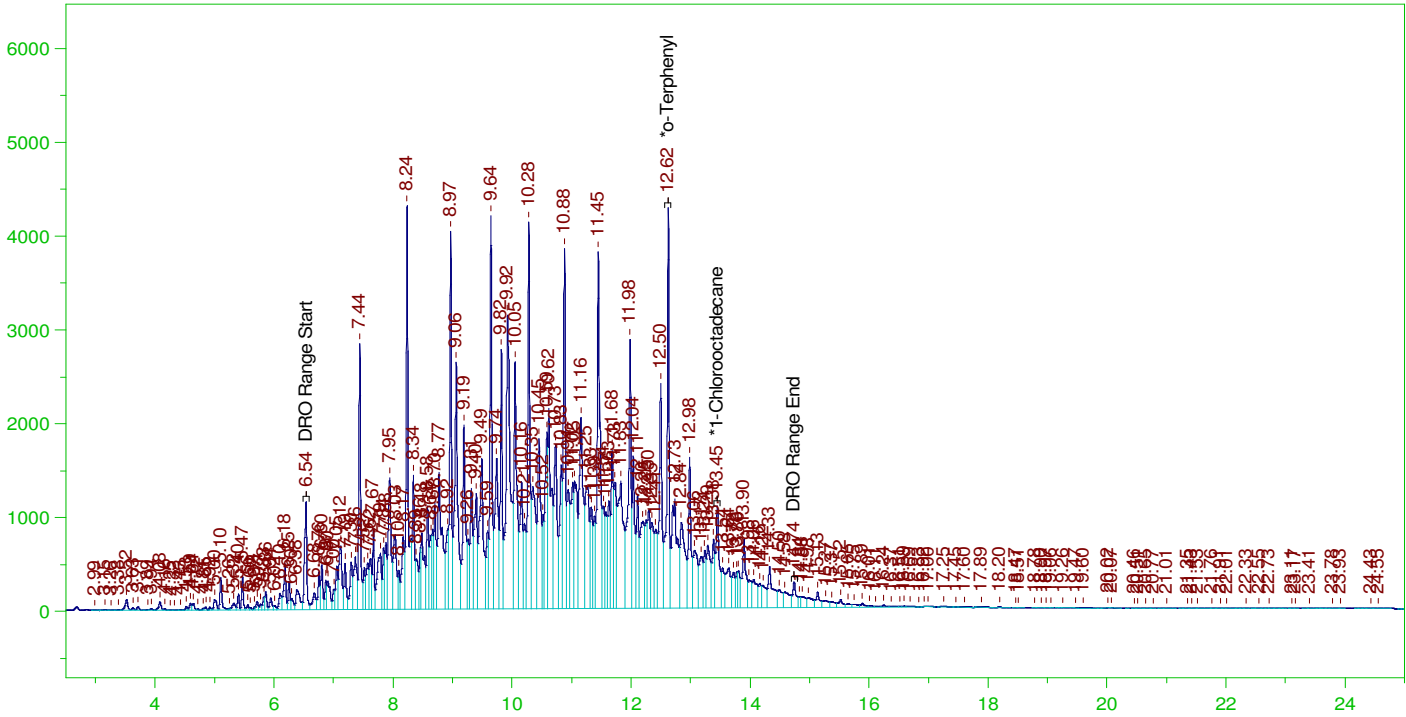
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0004.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.751	200.	202.159	101.08	75-125

G:\org\HP4\DAT\HP4010622_b\0106HP4.0005.RAW

CCV_0106HP405r, DRO ;0106HP4 , DRO220105B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP405r, DRO ;0106HP4 , DRO220105B
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0005.RAW
 Date & Time Acquired: 1/6/2022 7:43:00 PM
 Method File: G:\Org\HP4\methods\DC_8015-C24-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.624	200.	339.029	169.51
*1-Chlorooctadecane	13.449	200.	126.768	63.38

DRO Area: 4.134095E+08 DRO Amount: 14074.34
 TEH Area: 4.286969E+08 TEH Amount: 14594.79

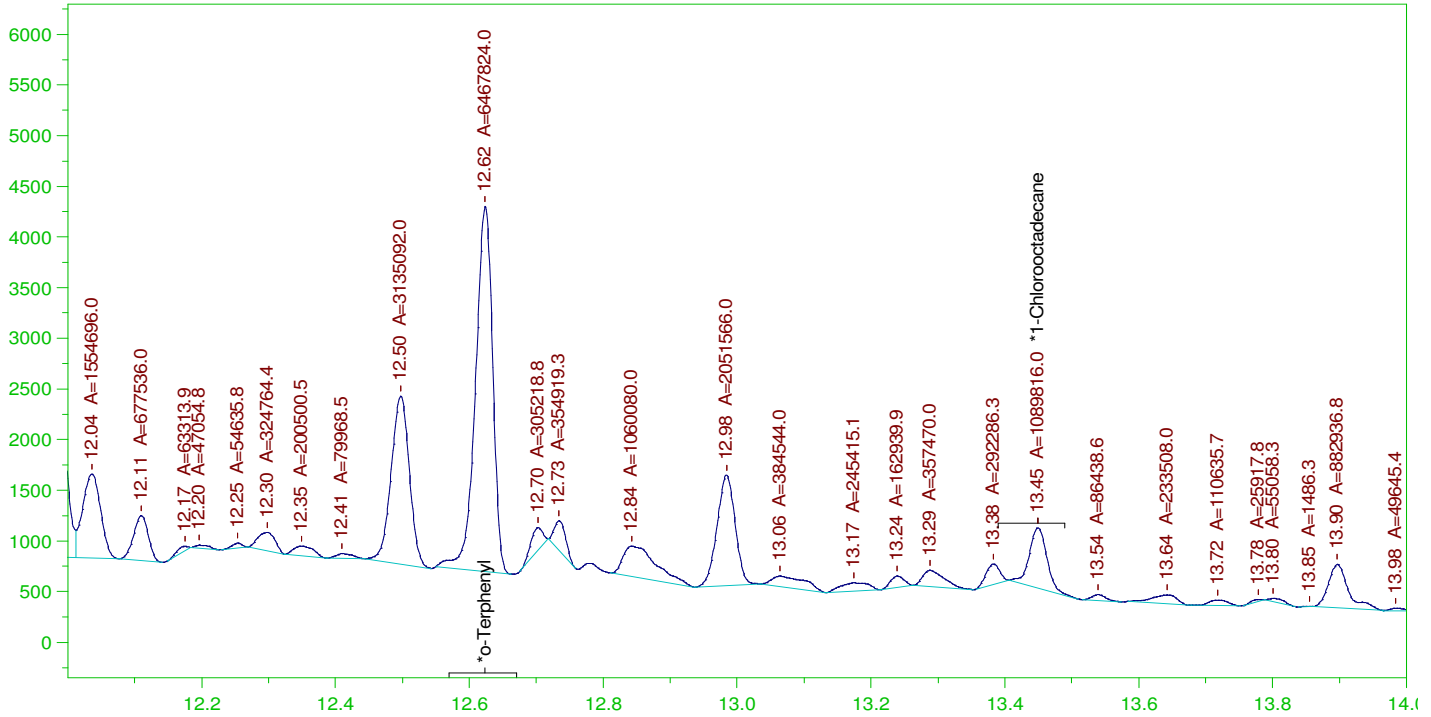
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0005.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14594.79	97.3	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.624	200.	339.029	169.51	85-115
*1-Chlorooctadecane	13.449	200.	126.768	63.38	85-115

G:\org\HP4\DAT\HP4010622_b\0106HP4.0005.RAW

CCV_0106HP405r, DRO ;0106HP4 , DRO220105B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP405r, DRO ;0106HP4 , DRO220105B
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0005.RAW
 Date & Time Acquired: 1/6/2022 7:43:00 PM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

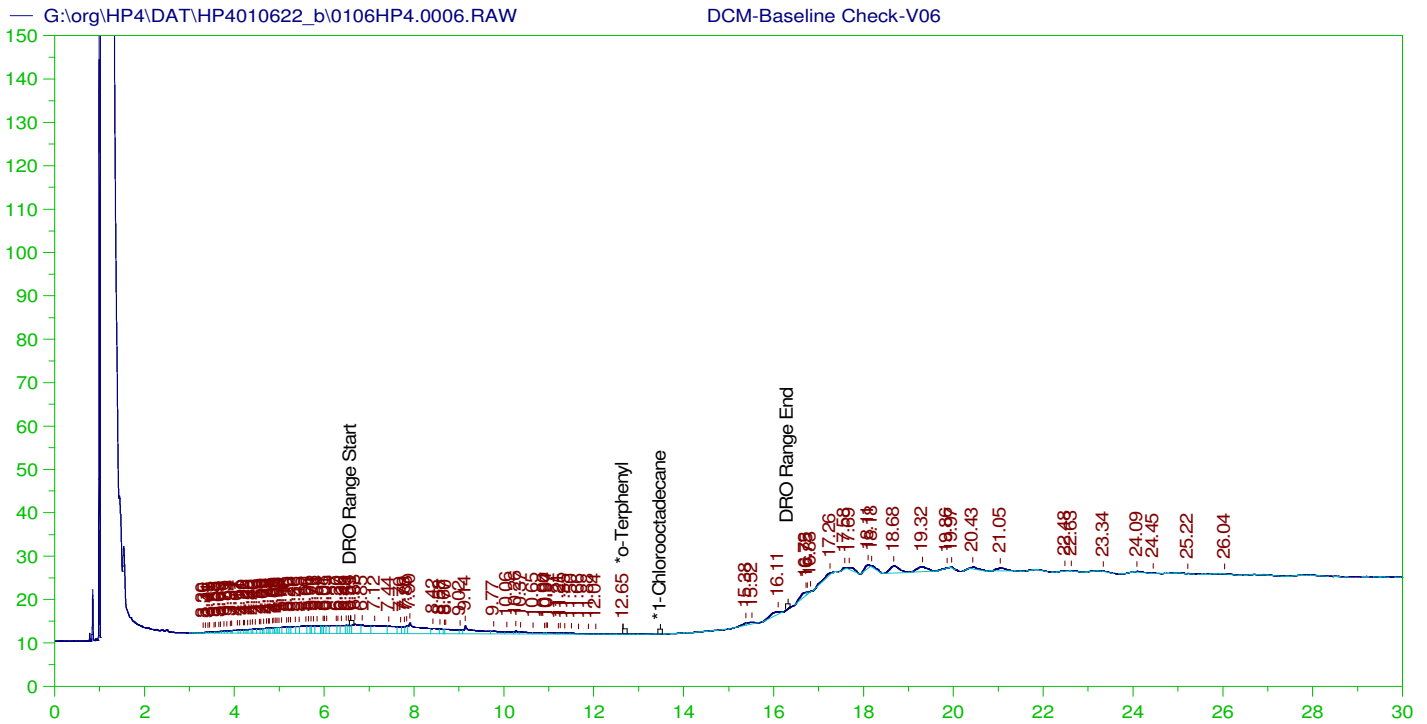
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.624	200.	194.114	97.06
*1-Chlorooctadecane	13.449	200.	32.708	16.35

DRO Area: 1.820825E+08 DRO Amount: 6198.918
 TEH Area: 1.919679E+08 TEH Amount: 6535.461

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0005.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	6535.46	43.57	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.624	200.	194.114	97.06	85-115
*1-Chlorooctadecane	13.449	200.	32.708	16.35	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V06
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0006.RAW
 Date & Time Acquired: 1/6/2022 8:28:19 PM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.56 to 16.37

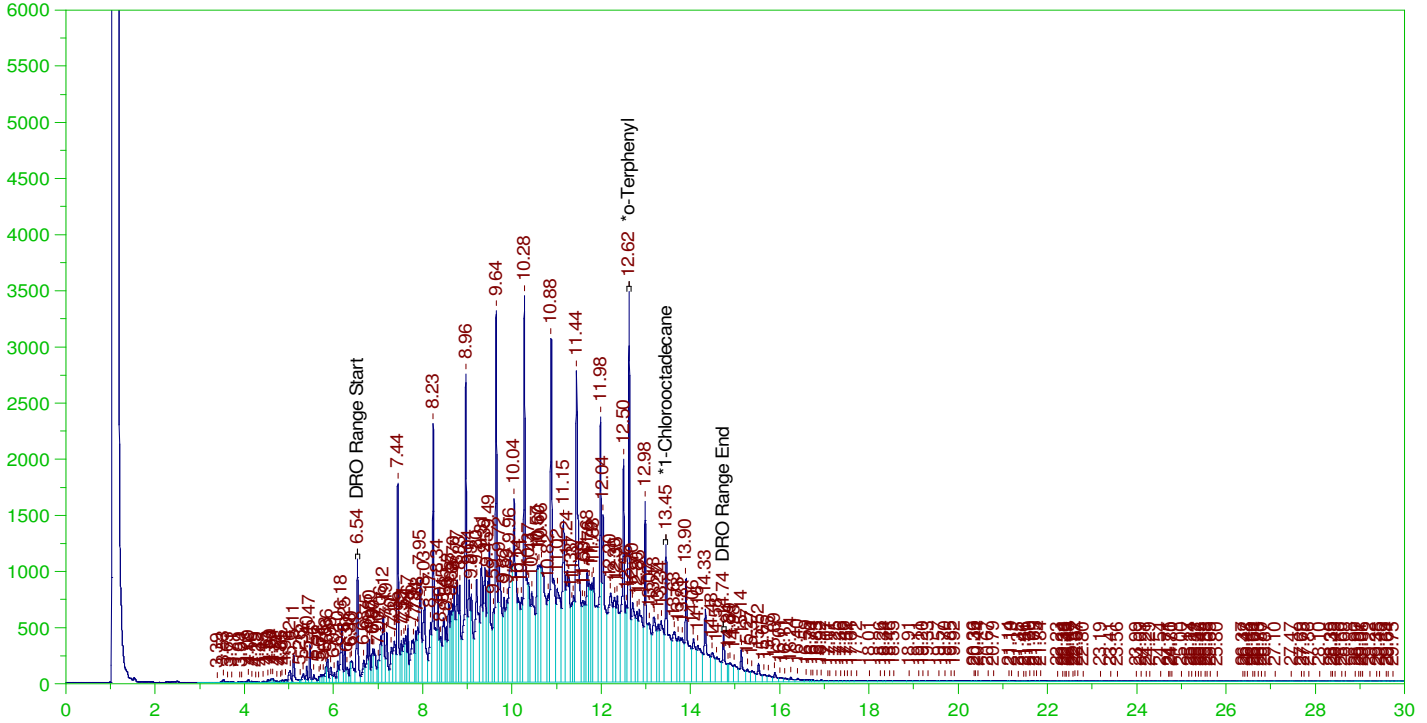
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.649	200.	.016	.01
*1-Chlorooctadecane	29.852	200.	.	.

DRO Area:336100.3 DRO Amount: 11.44238
 TEH Area:691493.9 TEH Amount: 23.5416

Batch ID: 162648

LCS-162648 ;0106HP4 , SGT

G:\org\HP4\DAT\HP4010622_b\0106HP4.0007.RAW



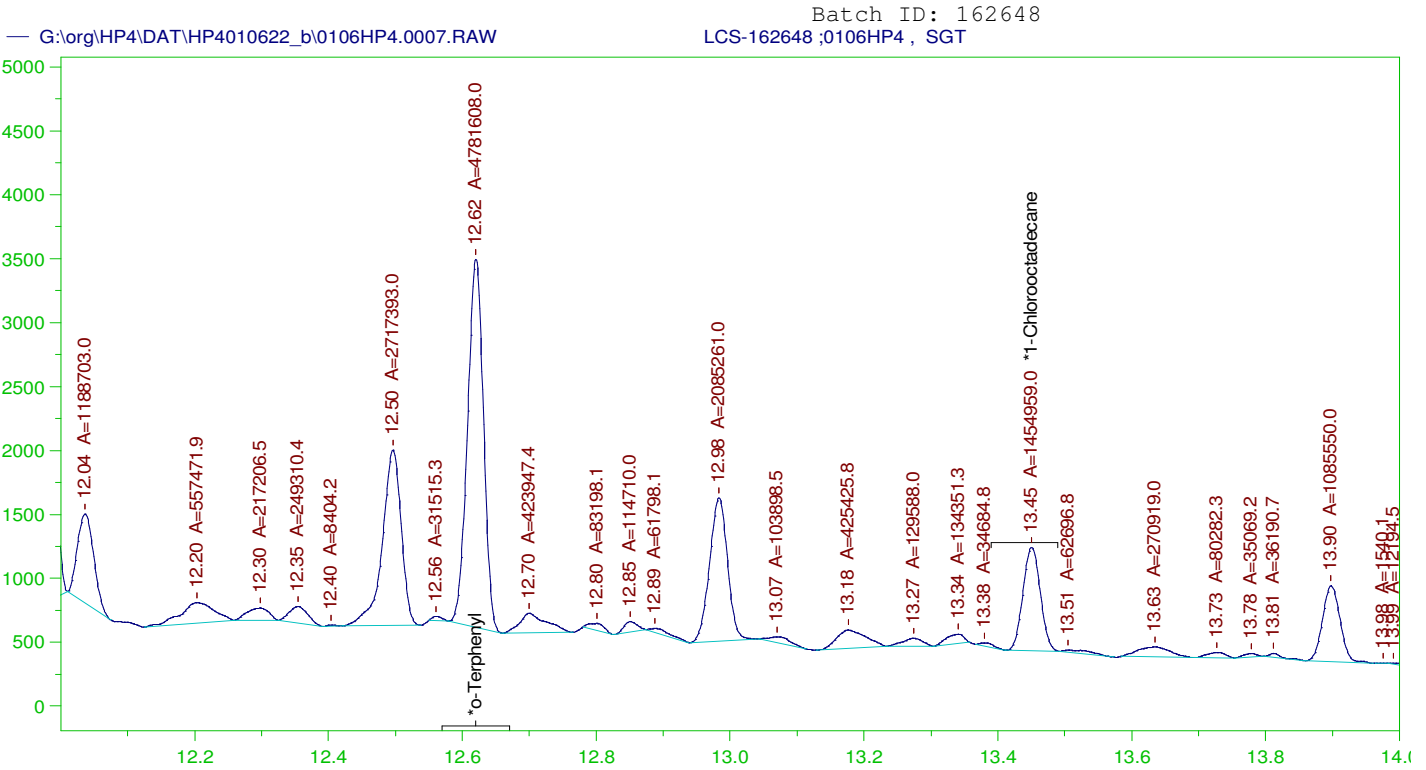
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-162648 ;0106HP4 , SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0007.RAW
 Date & Time Acquired: 1/6/2022 9:13:27 PM
 Method File: G:\Org\HP4\methods\D3_8015-C24-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.62	.2	.231	115.56
*1-Chlorooctadecane	13.45	.2	.165	82.65

DRO Area: 3.086614E+08 DRO Amount: 10.50824
 TEH Area: 3.290731E+08 TEH Amount: 11.20314



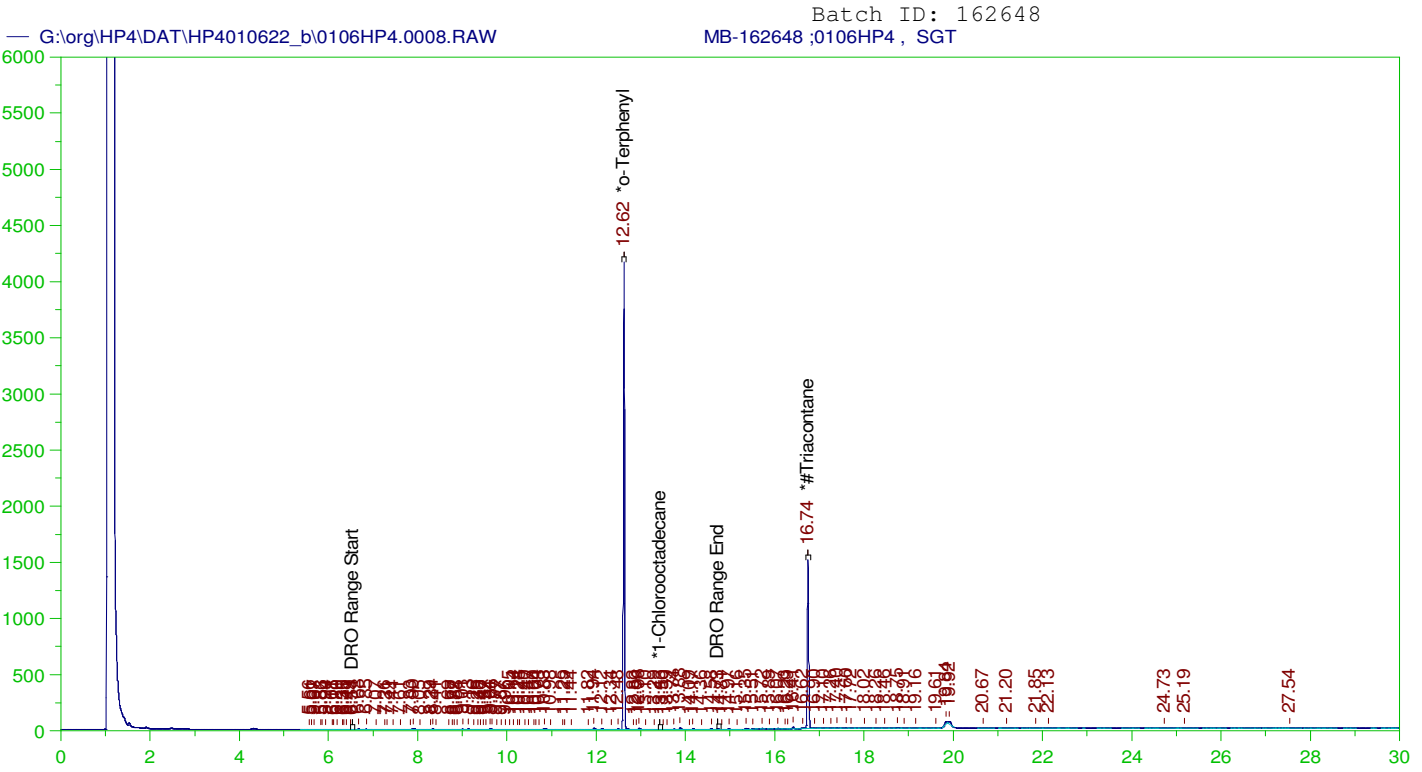
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-162648 ;0106HP4 , SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0007.RAW
 Date & Time Acquired: 1/6/2022 9:13:27 PM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.62	.2	.144	71.75
*1-Chlorooctadecane	13.45	.2	.044	21.83

DRO Area:1.237214E+08 DRO Amount: 4.212039
 TEH Area:1.32783E+08 TEH Amount: 4.520536



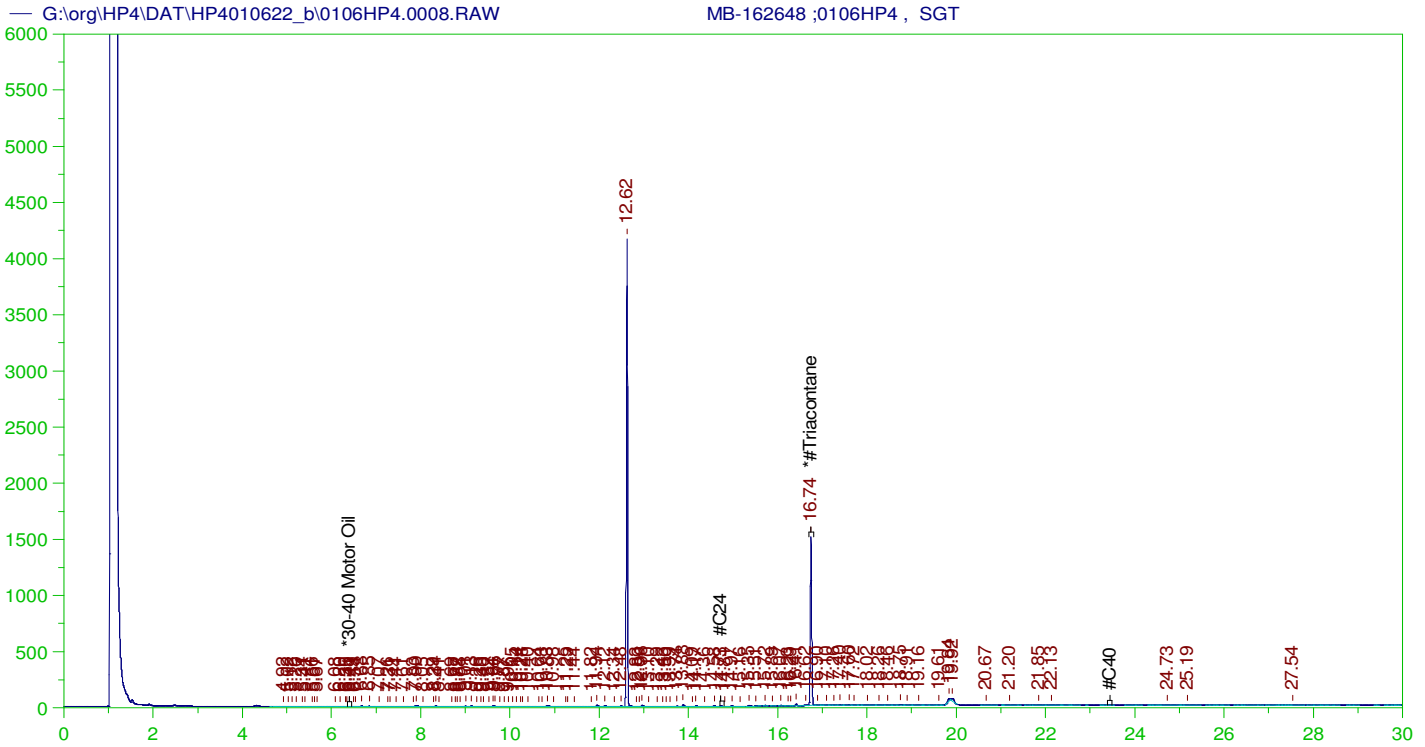
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-162648 ;0106HP4 , SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0008.RAW
 Date & Time Acquired: 1/6/2022 9:58:42 PM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.619	.2	.22	109.86
*1-Chlorooctadecane	13.429	.2	.03	-
*#Triacontane	16.745	.2	.127	63.54

DRO Area:341012.2 DRO Amount: 0.0116096
 TEH Area:758928.7 TEH Amount: 2.583739E-02



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-162648 ;0106HP4 , SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0008.RAW
 Date & Time Acquired: 1/6/2022 9:58:42 PM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

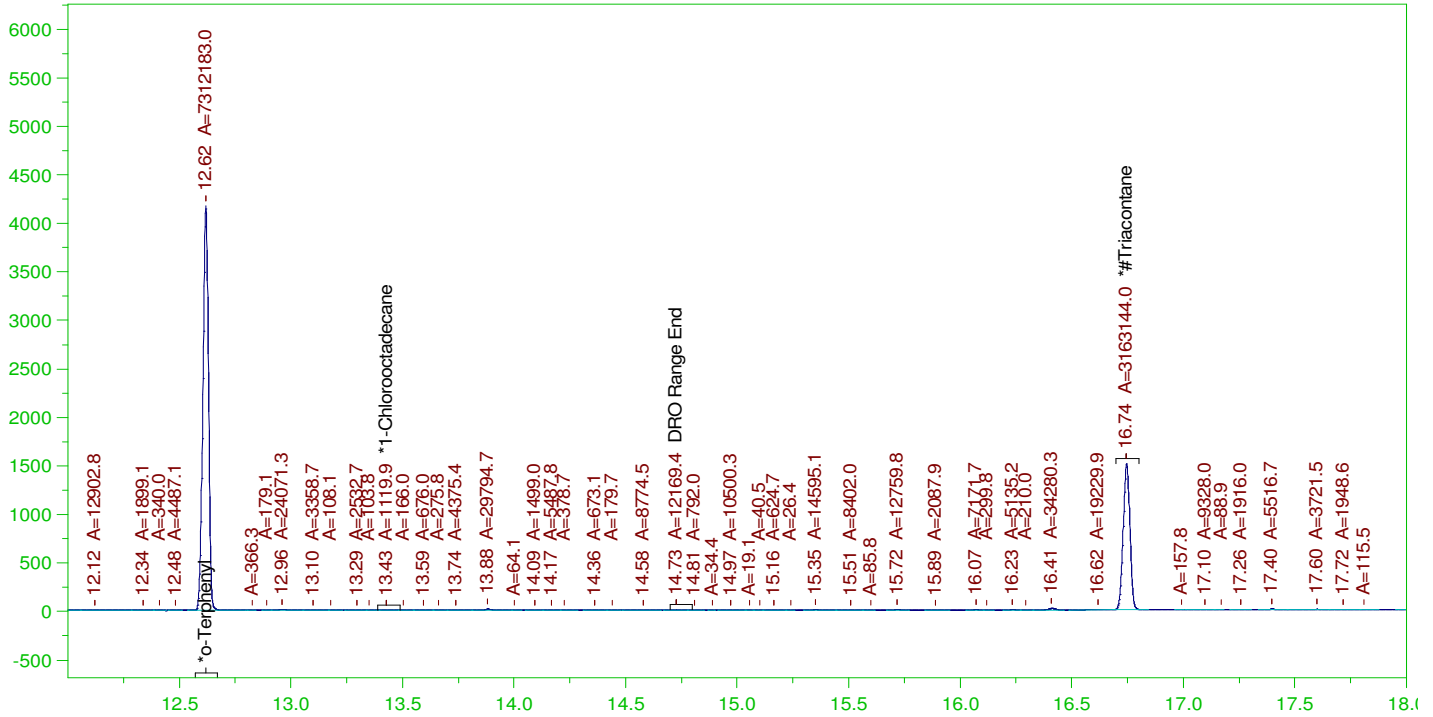
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacotane	16.745	.5	.127	25.35

RRO Area:397773.8 RRO AMOUNT: 0.0162161

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0008.RAW

MB-162648 ;0106HP4 , SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-162648 ;0106HP4 , SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0008.RAW
 Date & Time Acquired: 1/6/2022 9:58:42 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.619	.2	.219	109.73
*1-Chlorooctadecane	13.429	.2	.02	-
*#Triacontane	16.745	.2	.127	63.33

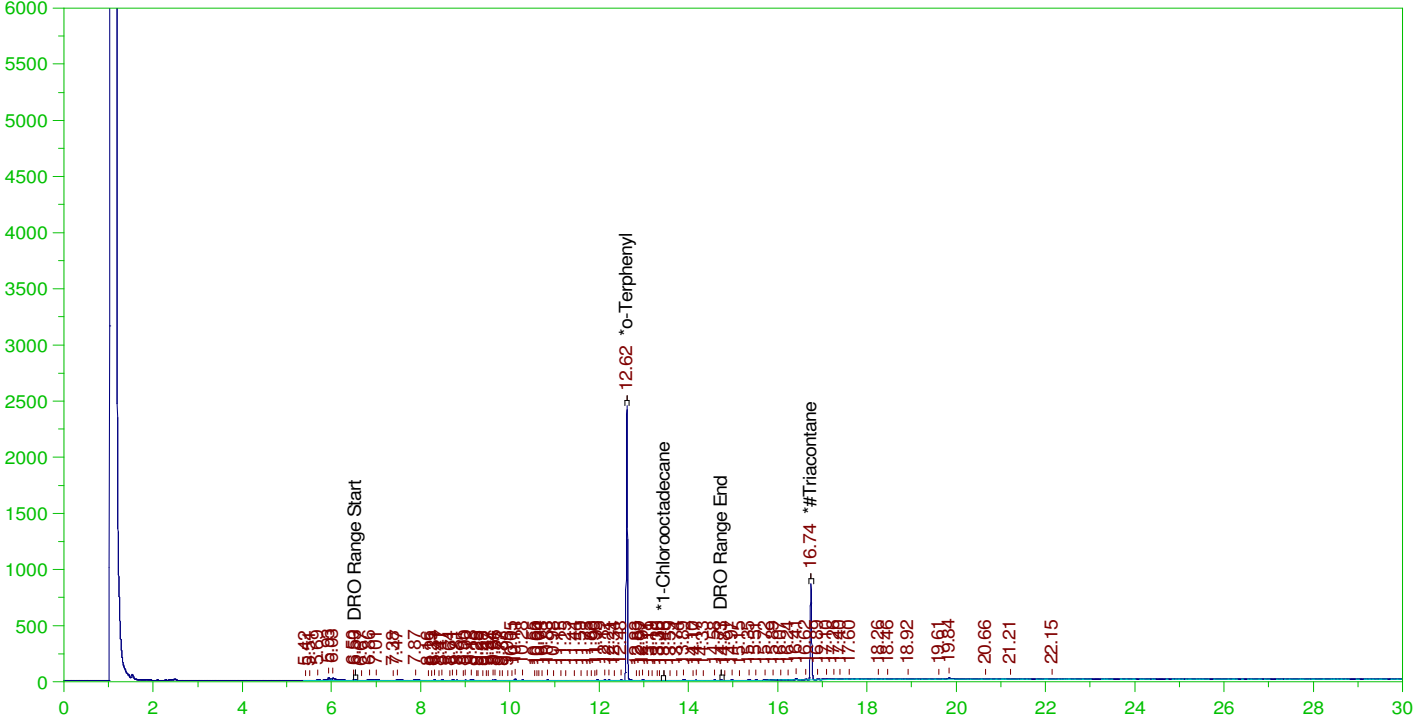
DRO Area:221642.6 DRO Amount: 7.545724E-03
 TEH Area:648784.2 TEH Amount: 2.208756E-02

ERH2293 (OWDFMW01)

G:\org\HP4\DAT\HP4010622_b\0106HP4.0009.RAW

Batch ID: 162648

B21122211-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122211-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0009.RAW
 Date & Time Acquired: 1/6/2022 10:43:36 PM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.615	.196	.127	64.81	-
*1-Chlorooctadecane	13.457	.196	.	.03	-
*#Triacontane	16.744	.196	.072	36.69	-

DRO Area:358038.3 DRO Amount: 1.195025E-02
 TEH Area:724613.3 TEH Amount: 2.418542E-02

ERH2293 (OWDFMW01)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0009.RAW

B21122211-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122211-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0009.RAW
 Date & Time Acquired: 1/6/2022 10:43:36 PM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.744	.49	.072	14.66

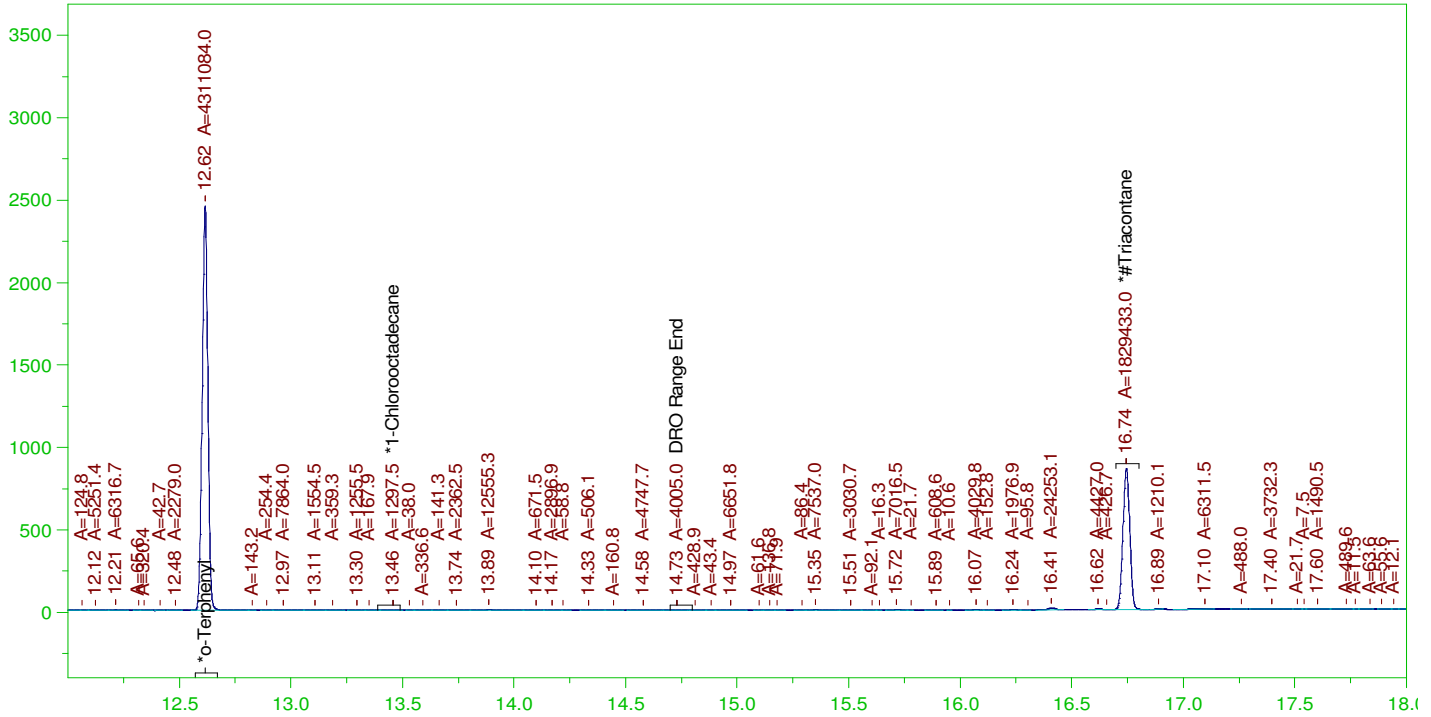
RRO Area:155034.1 RRO AMOUNT: 6.196368E-03

ERH2293 (OWDFMW01)

Batch ID: 162648

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B21122211-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122211-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0009.RAW
 Date & Time Acquired: 1/6/2022 10:43:36 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.615	.196	.127	64.69	-
*1-Chlorooctadecane	13.457	.196	.	.02	-
*#Triacontane	16.744	.196	.072	36.63	-

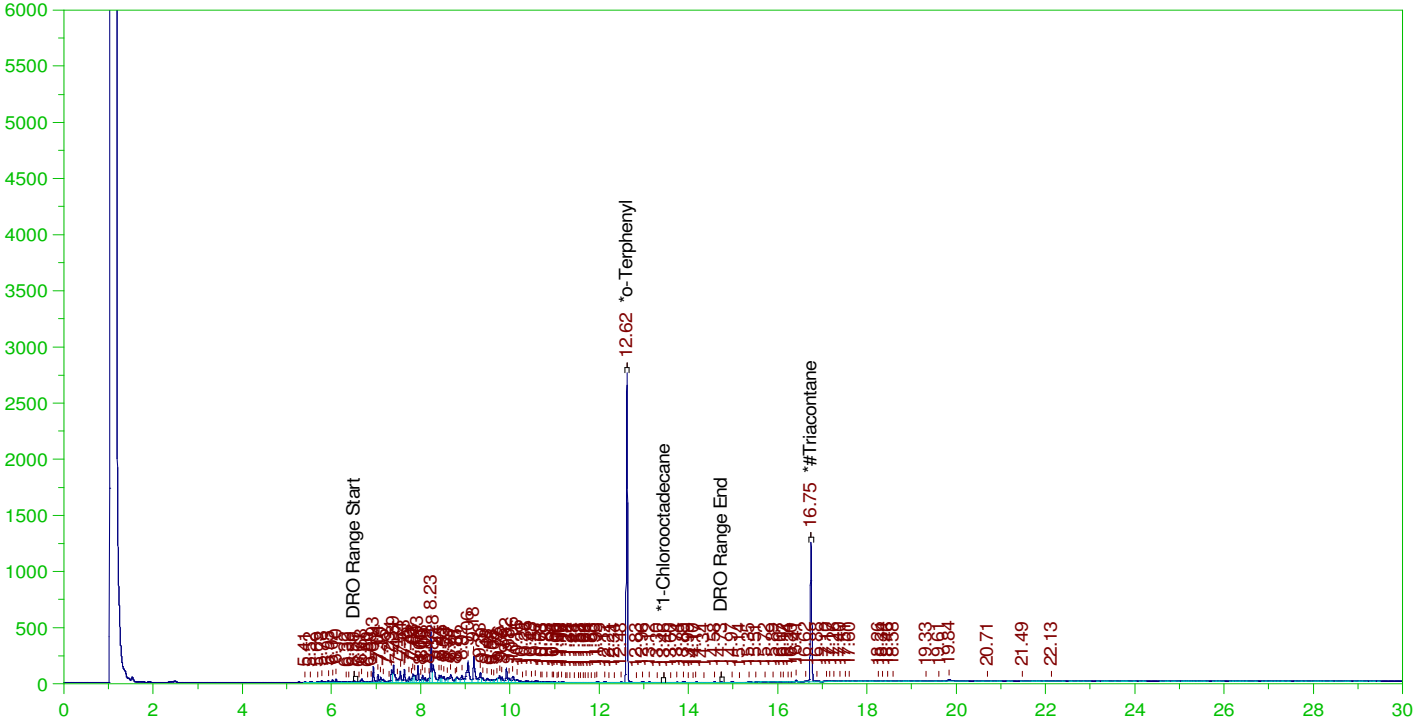
DRO Area:243467.3 DRO Amount: 8.12621E-03
 TEH Area:614579.3 TEH Amount: 2.051282E-02

ERH2281 (RHMW02)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0010.RAW

B21122190-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122190-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0010.RAW
 Date & Time Acquired: 1/6/2022 11:28:52 PM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.196	.143	72.97	-
*1-Chlorooctadecane	13.456	.196	.	.03	-
*#Triacontane	16.746	.196	.104	52.79	-

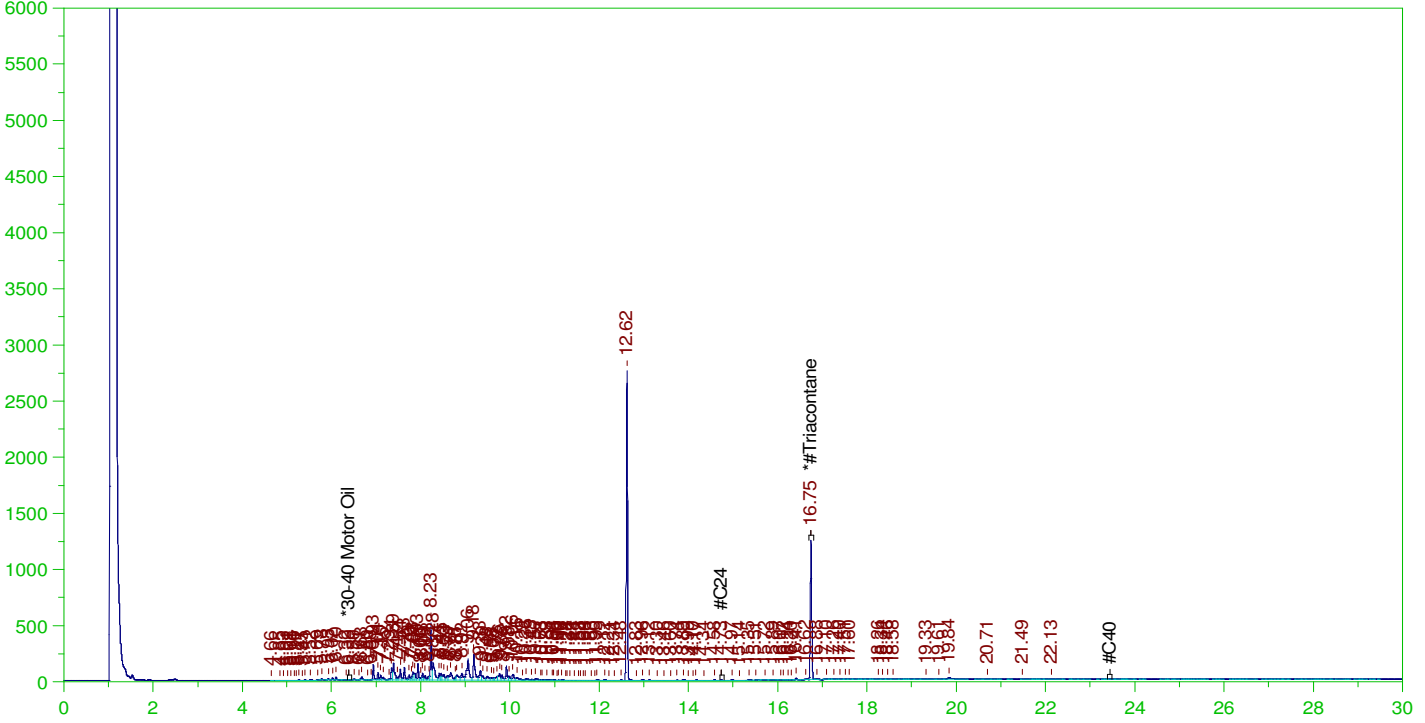
DRO Area: 9666660 DRO Amount: 0.3226442
 TEH Area: 1.015297E+07 TEH Amount: 0.3388759

ERH2281 (RHMW02)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0010.RAW

B21122190-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122190-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0010.RAW
 Date & Time Acquired: 1/6/2022 11:28:52 PM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.746	.49	.103	21.06

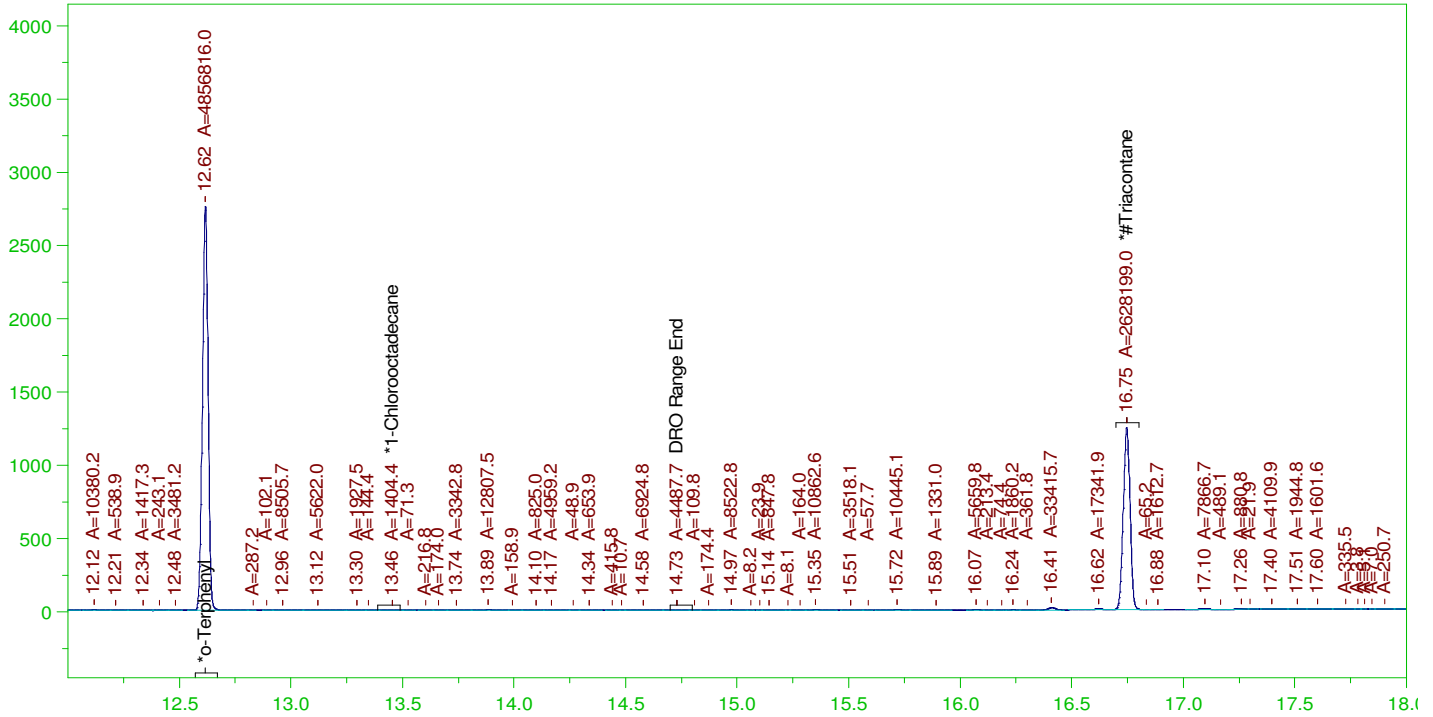
RRO Area:216488.4 RRO AMOUNT: 8.652559E-03

ERH2281 (RHMW02)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0010.RAW

B21122190-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122190-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0010.RAW
 Date & Time Acquired: 1/6/2022 11:28:52 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.196	.143	72.88	-
*1-Chlorooctadecane	13.456	.196	.	.02	-
*#Triacontane	16.746	.196	.103	52.62	-

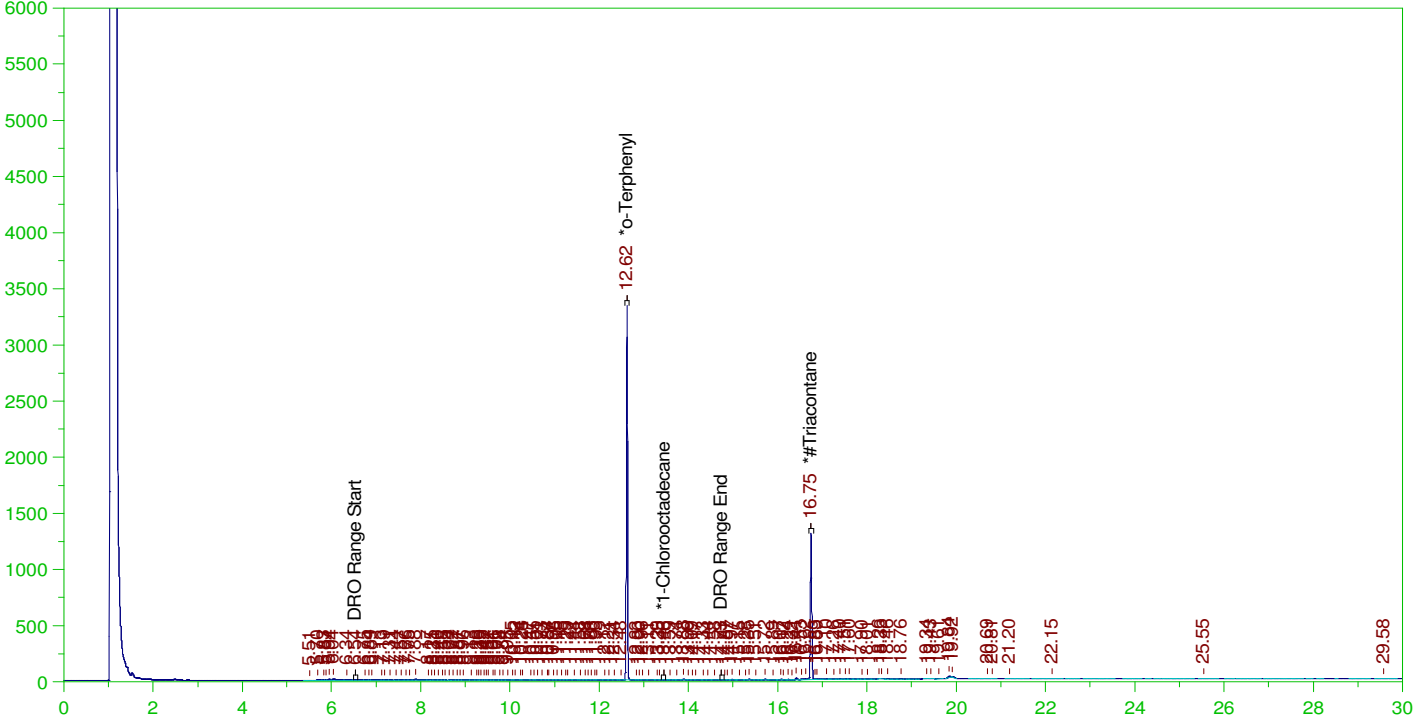
DRO Area: 9770271 DRO Amount: 0.3261024
 TEH Area: 1.039798E+07 TEH Amount: 0.3470533

ERH2319 (RHMW06)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0011.RAW

B21122198-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122198-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0011.RAW
 Date & Time Acquired: 1/7/2022 12:14:16 AM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.194	.169	87.1	-
*1-Chlorooctadecane	13.456	.194	.	.03	-
*#Triacontane	16.746	.194	.108	55.47	-

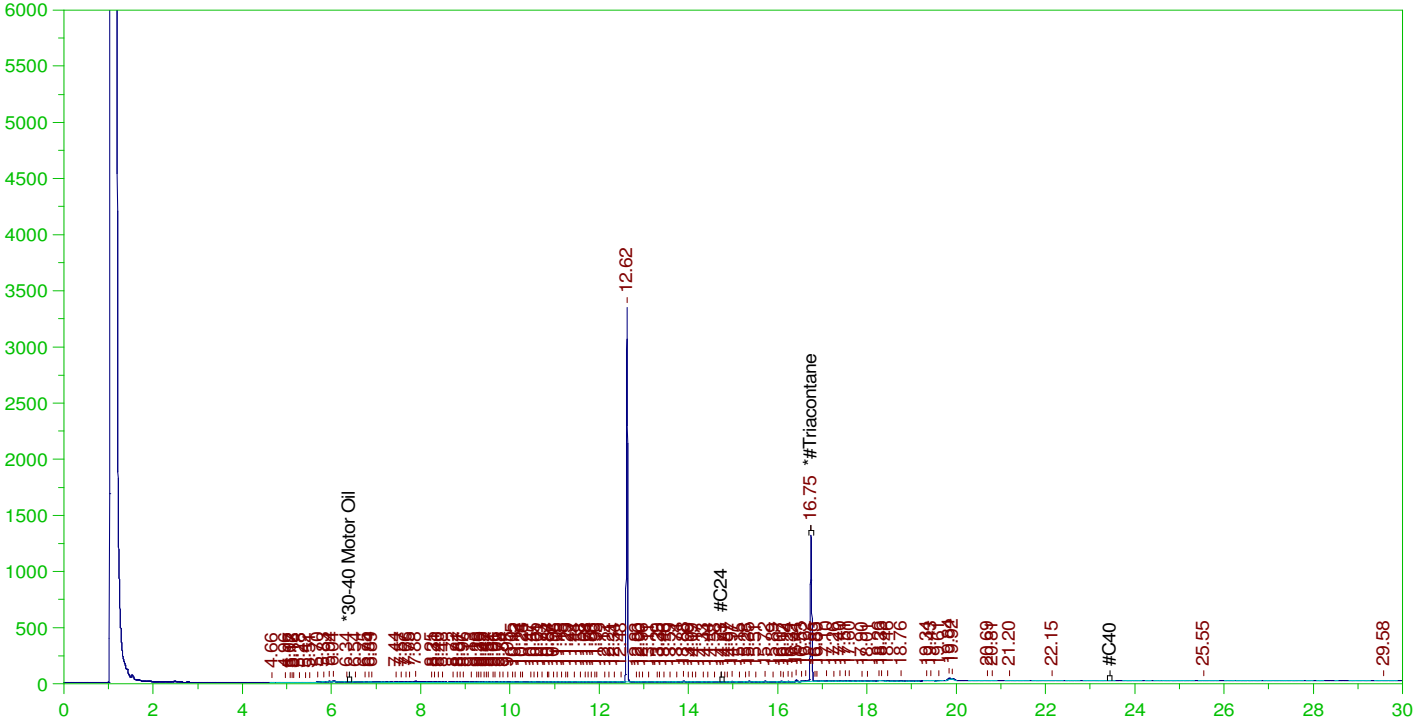
DRO Area:338646.3 DRO Amount: 1.119326E-02
 TEH Area:740404 TEH Amount: 2.447254E-02

ERH2319 (RHMW06)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0011.RAW

B21122198-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122198-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0011.RAW
 Date & Time Acquired: 1/7/2022 12:14:16 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacantane	16.746	.485	.107	22.12

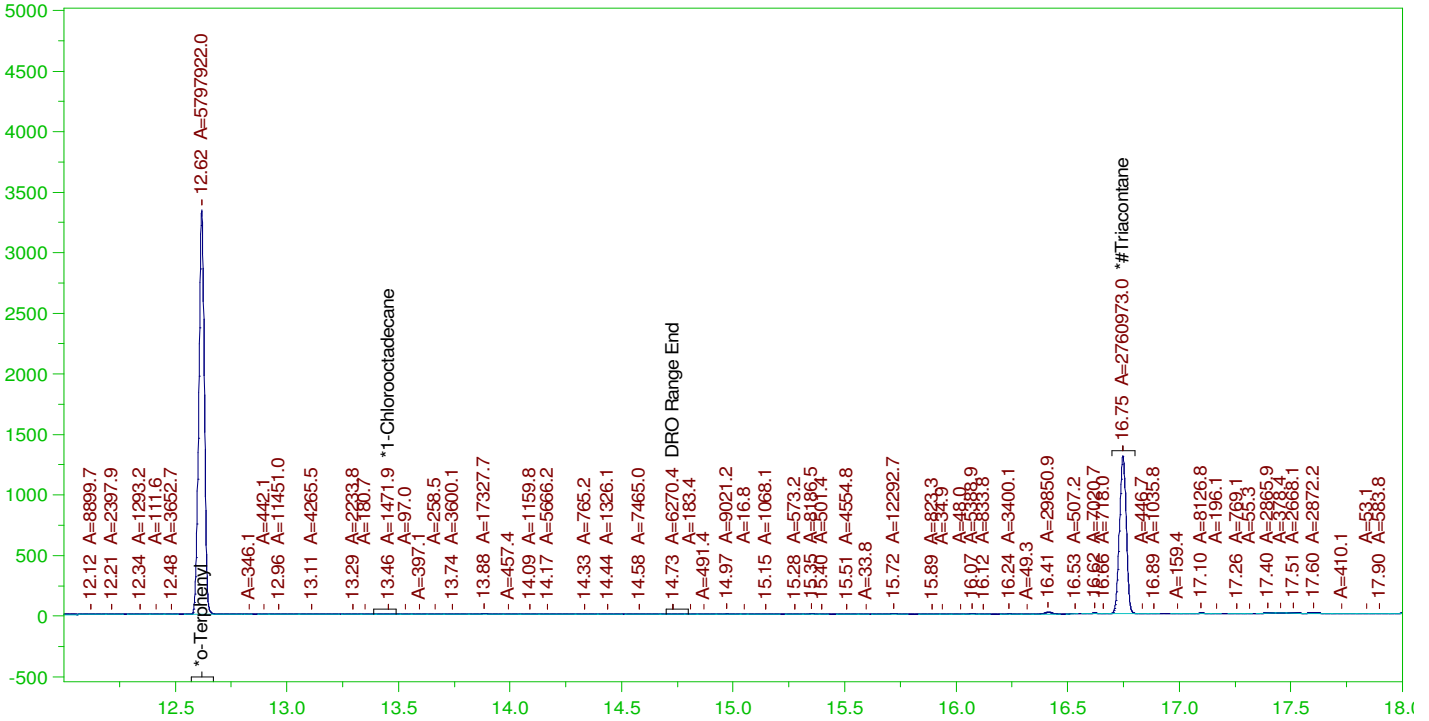
RRO Area:245776.6 RRO AMOUNT: 9.727773E-03

ERH2319 (RHMW06)

Batch ID: 162648

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B21122198-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



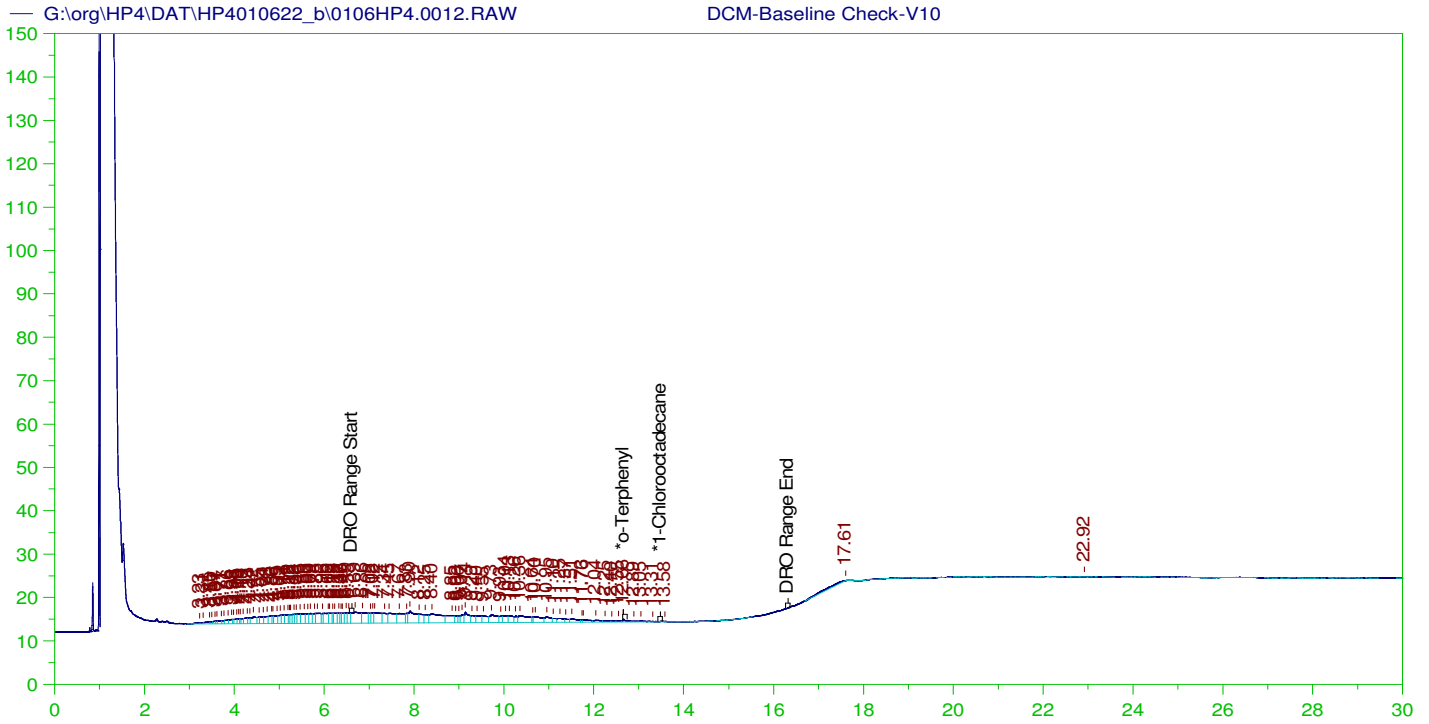
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122198-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0011.RAW
 Date & Time Acquired: 1/7/2022 12:14:16 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.194	.169	87.	-
*1-Chlorooctadecane	13.456	.194	.	.02	-
*#Triacontane	16.746	.194	.107	55.28	-

DRO Area:261766.5 DRO Amount: 8.652156E-03
 TEH Area:642307.5 TEH Amount: 2.123016E-02



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V10
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0012.RAW
 Date & Time Acquired: 1/7/2022 12:59:43 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.658	200.	.113	.06
*1-Chlorooctadecane	29.957	200.	.	.

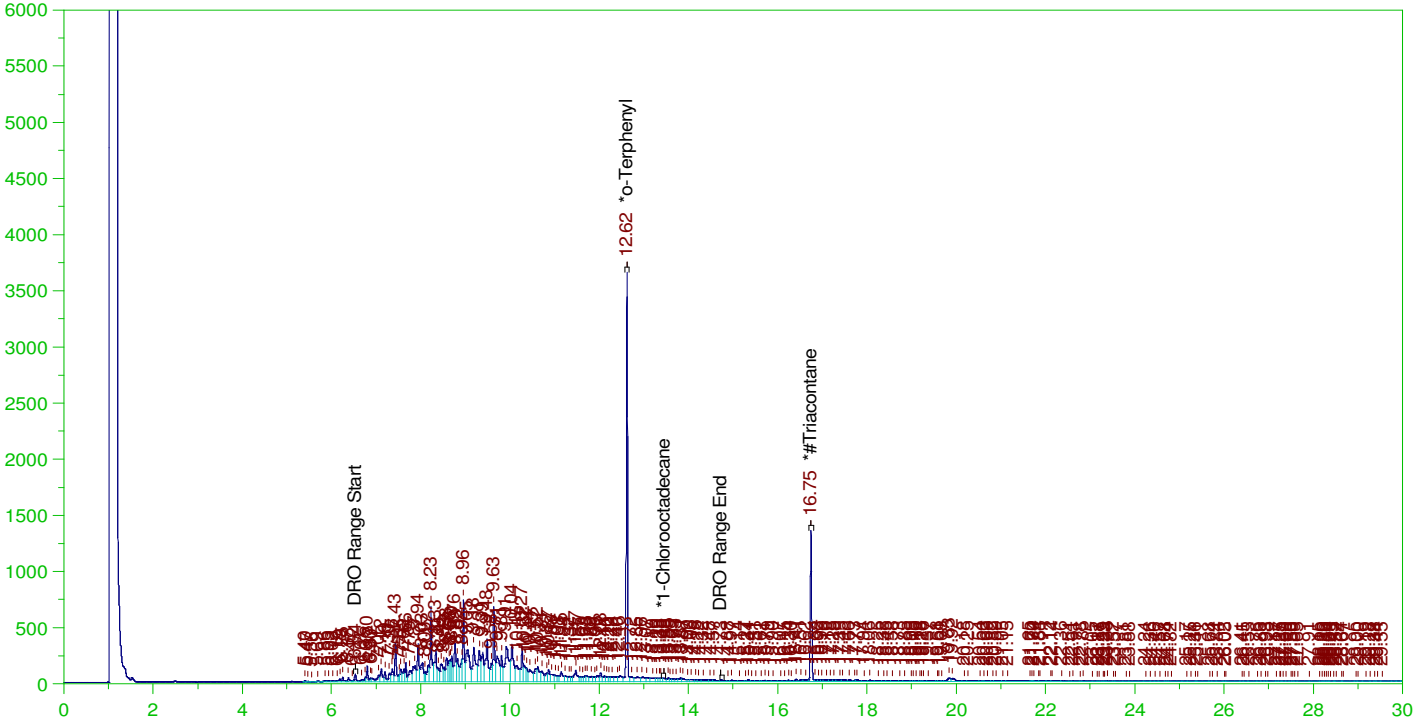
DRO Area:532794.8 DRO Amount: 18.13876
 TEH Area:885223.4 TEH Amount: 30.13703

ERH2291 (Sump Adit3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0013.RAW

B21122204-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122204-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0013.RAW
 Date & Time Acquired: 1/7/2022 1:44:55 AM
 Method File: G:\Org\HP4\methods\D3_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.194	.191	98.38	-
*1-Chlorooctadecane	13.445	.194	.004	1.92	-
*#Triacontane	16.745	.194	.112	57.87	-

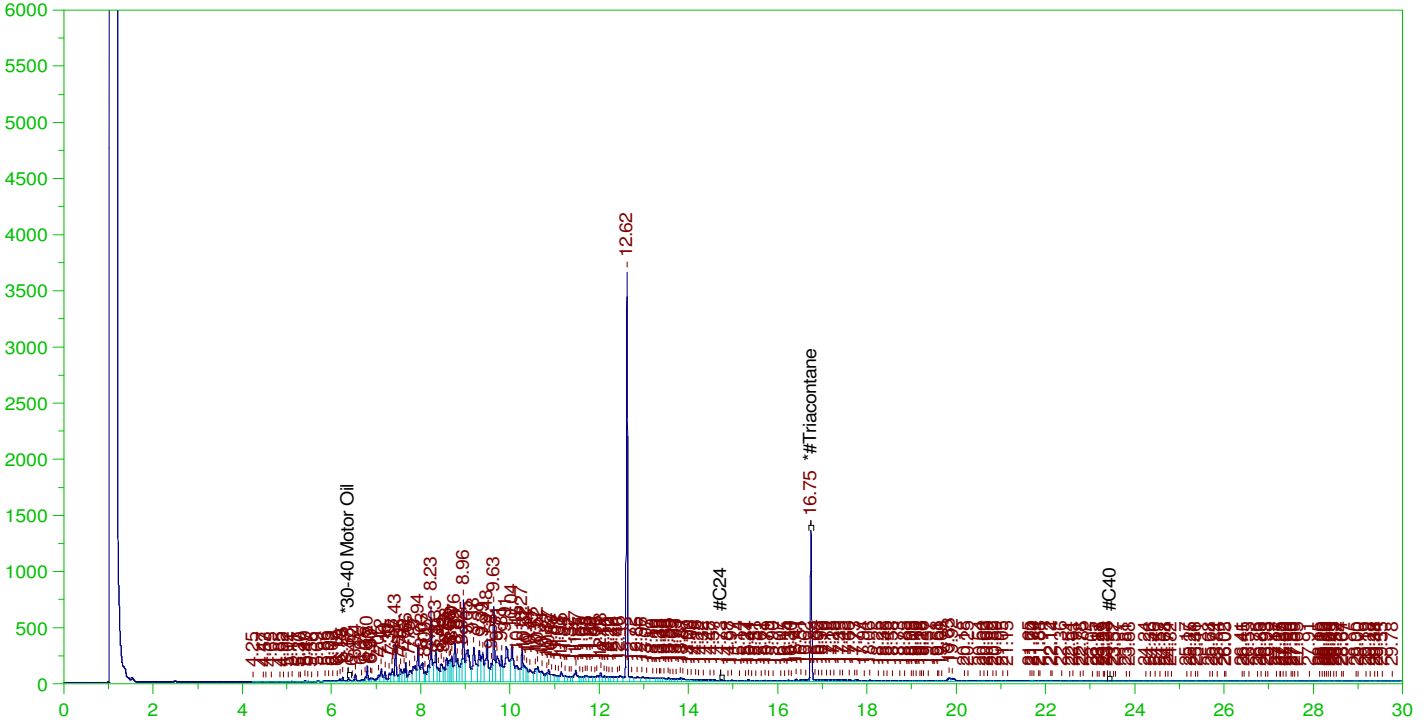
DRO Area: 4.465968E+07 DRO Amount: 1.476135
 TEH Area: 4.9271E+07 TEH Amount: 1.628552

ERH2291 (Sump Adit3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0013.RAW

B21122204-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122204-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0013.RAW
 Date & Time Acquired: 1/7/2022 1:44:55 AM
 Method File: G:\Org\HP4\Methods\D3_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.745	.485	.113	23.19	-

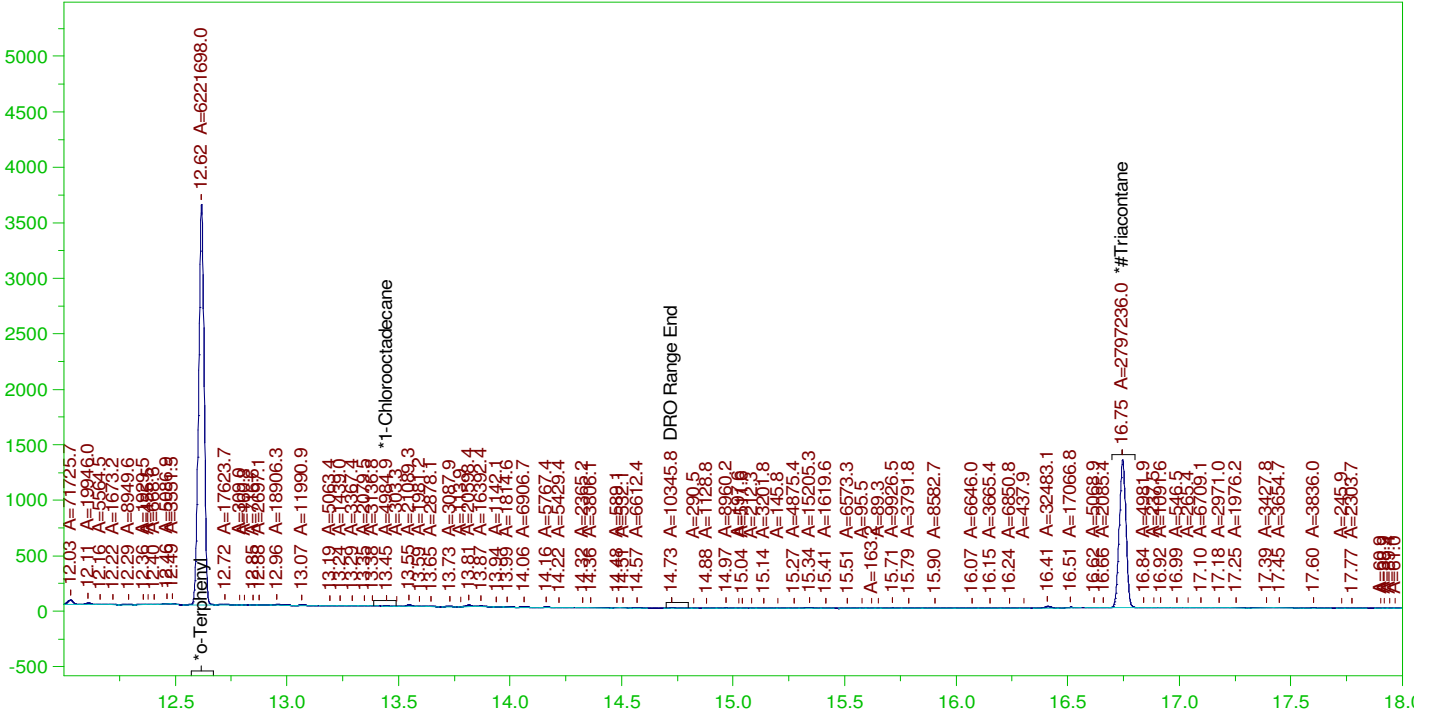
RRO Area:3965750 RRO AMOUNT: 0.1569634

ERH2291 (Sump Adit3)

G:\org\HP4\DAT\HP4010622_b\0106HP4.0013.RAW

Batch ID: 162648

B21122204-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122204-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0013.RAW
 Date & Time Acquired: 1/7/2022 1:44:55 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.617	.194	.181	93.36
*1-Chlorooctadecane	13.445	.194	.	.07
*#Triacontane	16.745	.194	.109	56.

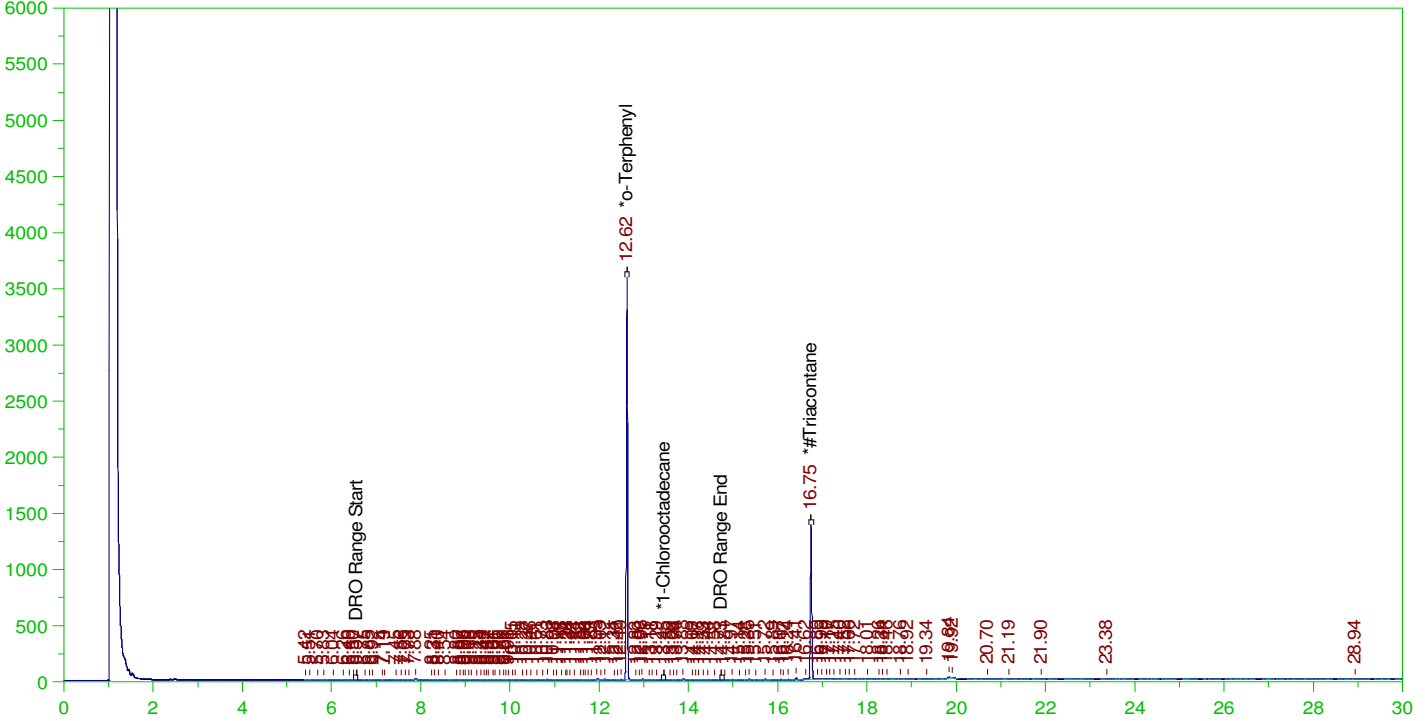
DRO Area:3.265764E+07 DRO Amount: 1.079432
 TEH Area:3.338271E+07 TEH Amount: 1.103397

ERH2283 (RHMW03)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0014.RAW

B21122180-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122180-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0014.RAW
 Date & Time Acquired: 1/7/2022 2:30:09 AM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.204	.192	93.93	-
*1-Chlorooctadecane	13.451	.204	.	.12	-
*#Triacontane	16.746	.204	.117	57.45	-

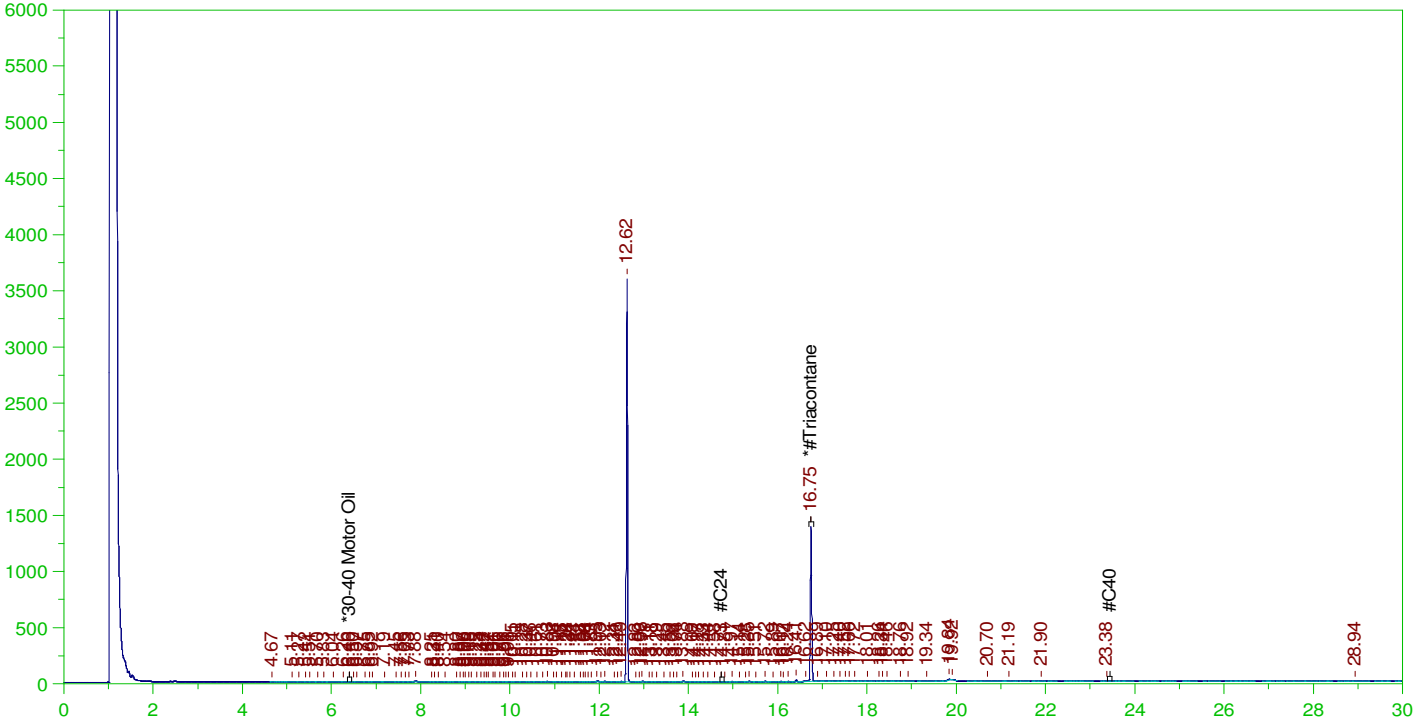
DRO Area:491349.8 DRO Amount: 1.706916E-02
 TEH Area:816185.1 TEH Amount: 2.835373E-02

ERH2283 (RHMW03)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0014.RAW

B21122180-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122180-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0014.RAW
 Date & Time Acquired: 1/7/2022 2:30:09 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.746	.51	.117	22.91

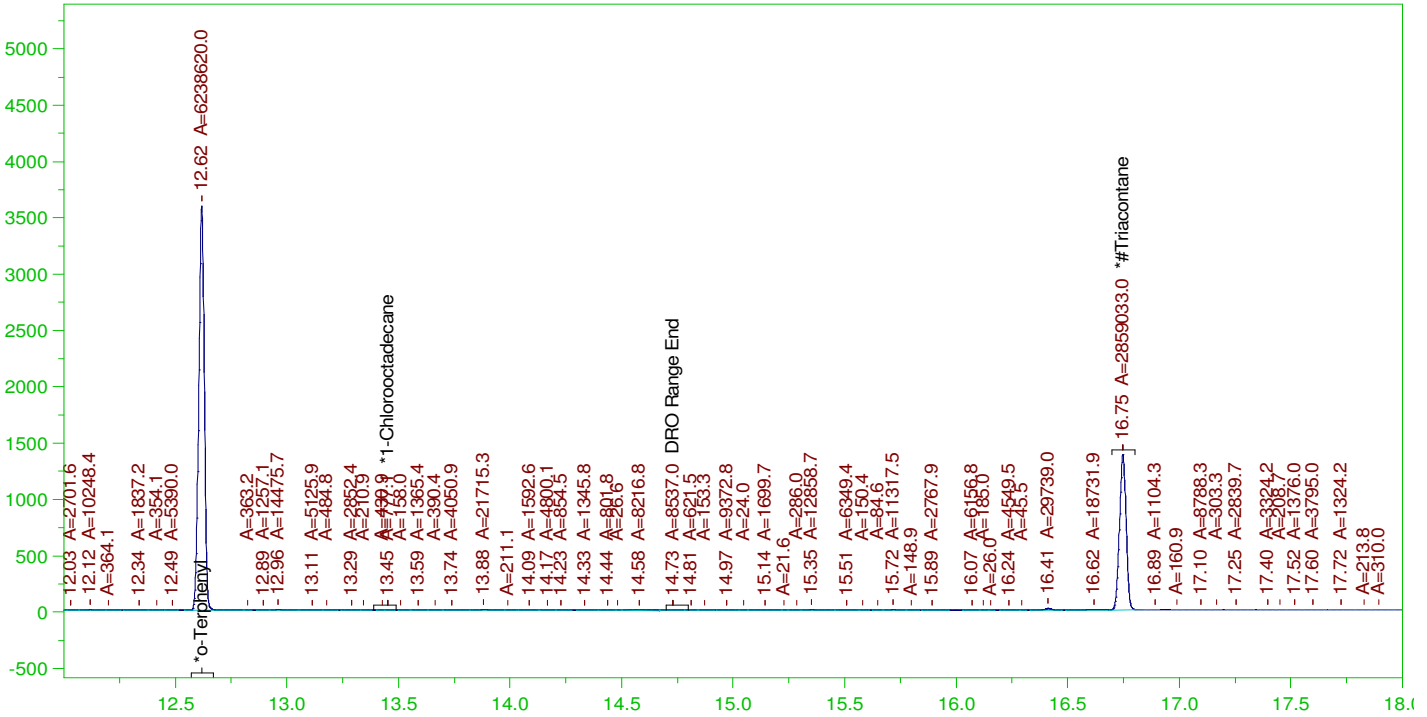
RRO Area:244699.3 RRO AMOUNT: 1.017928E-02

ERH2283 (RHMW03)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0014.RAW

B21122180-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122180-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0014.RAW
 Date & Time Acquired: 1/7/2022 2:30:09 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.204	.191	93.62	-
*1-Chlorooctadecane	13.451	.204	.	.01	-
*#Triacontane	16.746	.204	.117	57.24	-

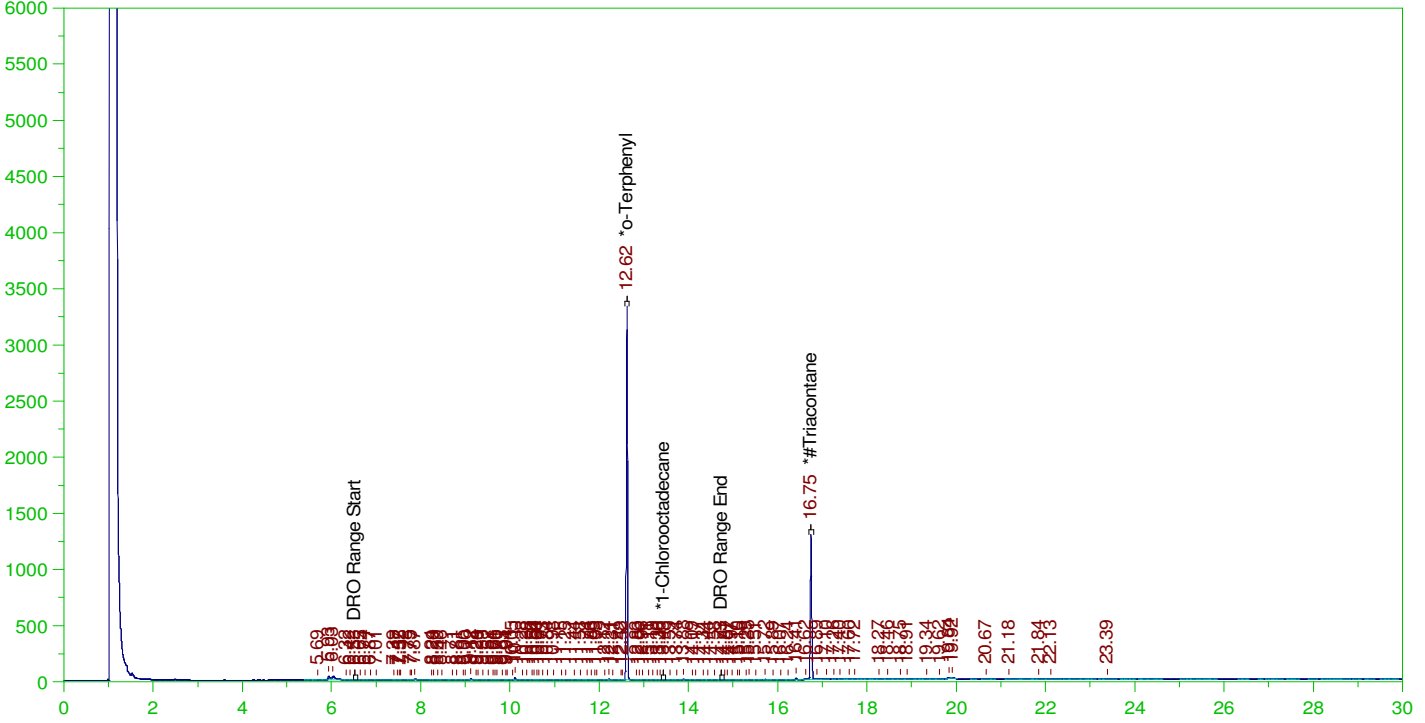
DRO Area:419258.3 DRO Amount: 1.456475E-02
 TEH Area:810161.3 TEH Amount: 2.814446E-02

ERH2276 (RHMW14 Zone3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0015.RAW

B21122188-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122188-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0015.RAW
 Date & Time Acquired: 1/7/2022 3:15:30 AM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.204	.177	86.69	-
*1-Chlorooctadecane	13.43	.204	.	.04	-
*#Triacontane	16.746	.204	.111	54.63	-

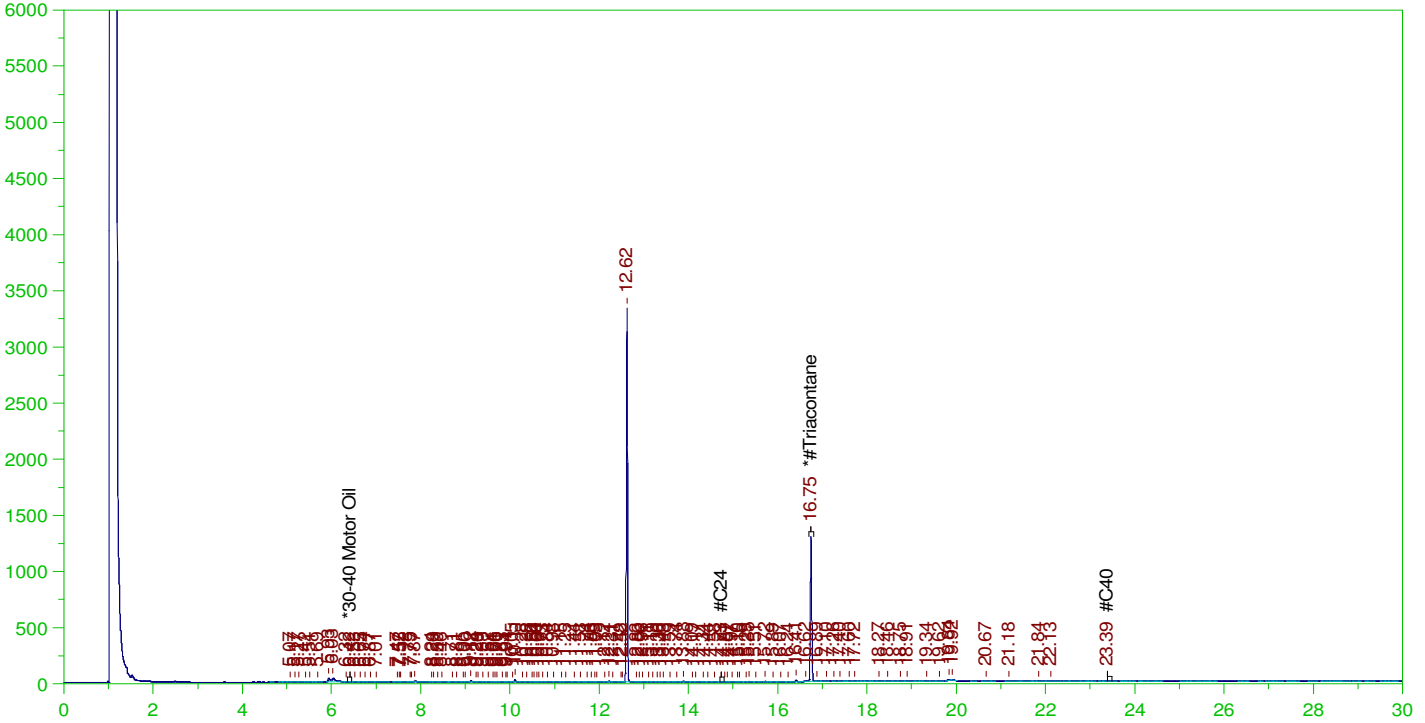
DRO Area:475113.4 DRO Amount: 1.650512E-02
 TEH Area:1085418 TEH Amount: 3.770671E-02

ERH2276 (RHMW14 Zone3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0015.RAW

B21122188-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122188-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0015.RAW
 Date & Time Acquired: 1/7/2022 3:15:30 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.746	.51	.111	21.8

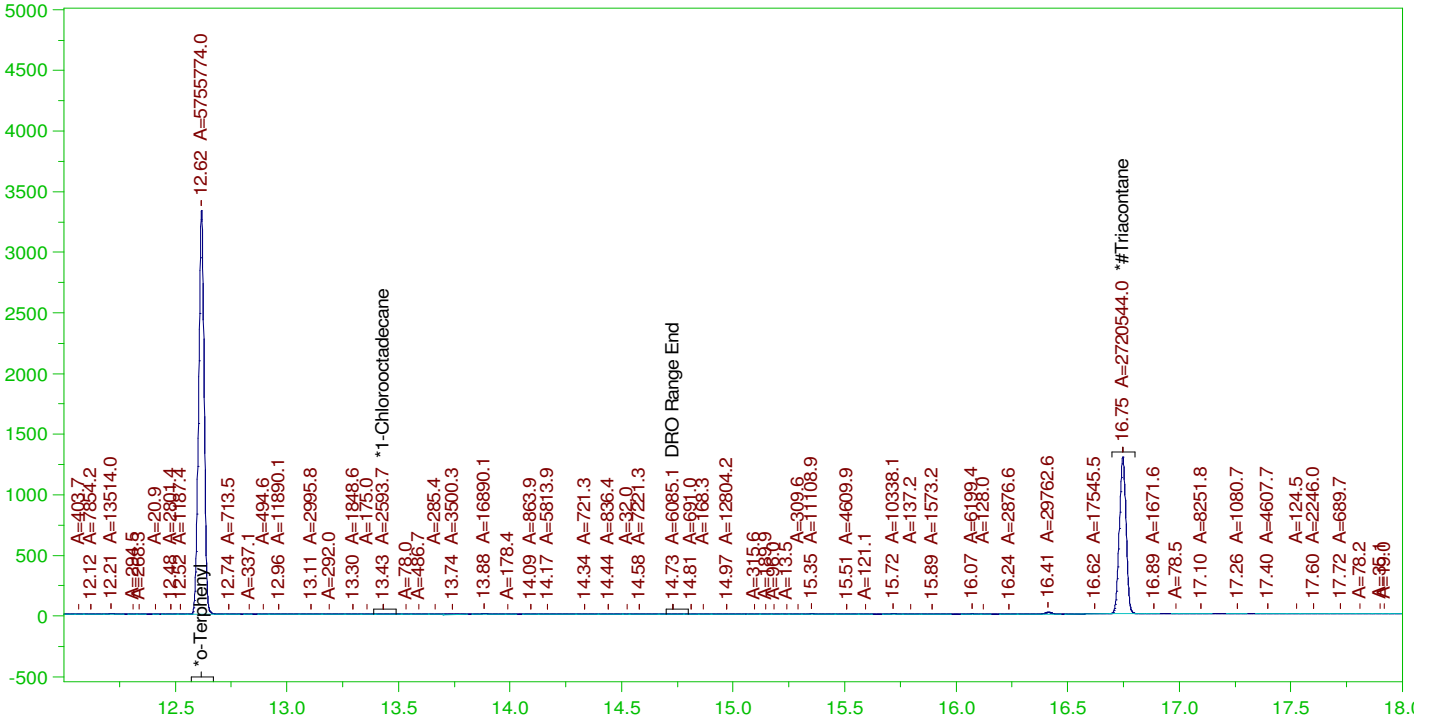
RRO Area:196536.8 RRO AMOUNT: 8.175758E-03

ERH2276 (RHMW14 Zone3)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0015.RAW

B21122188-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



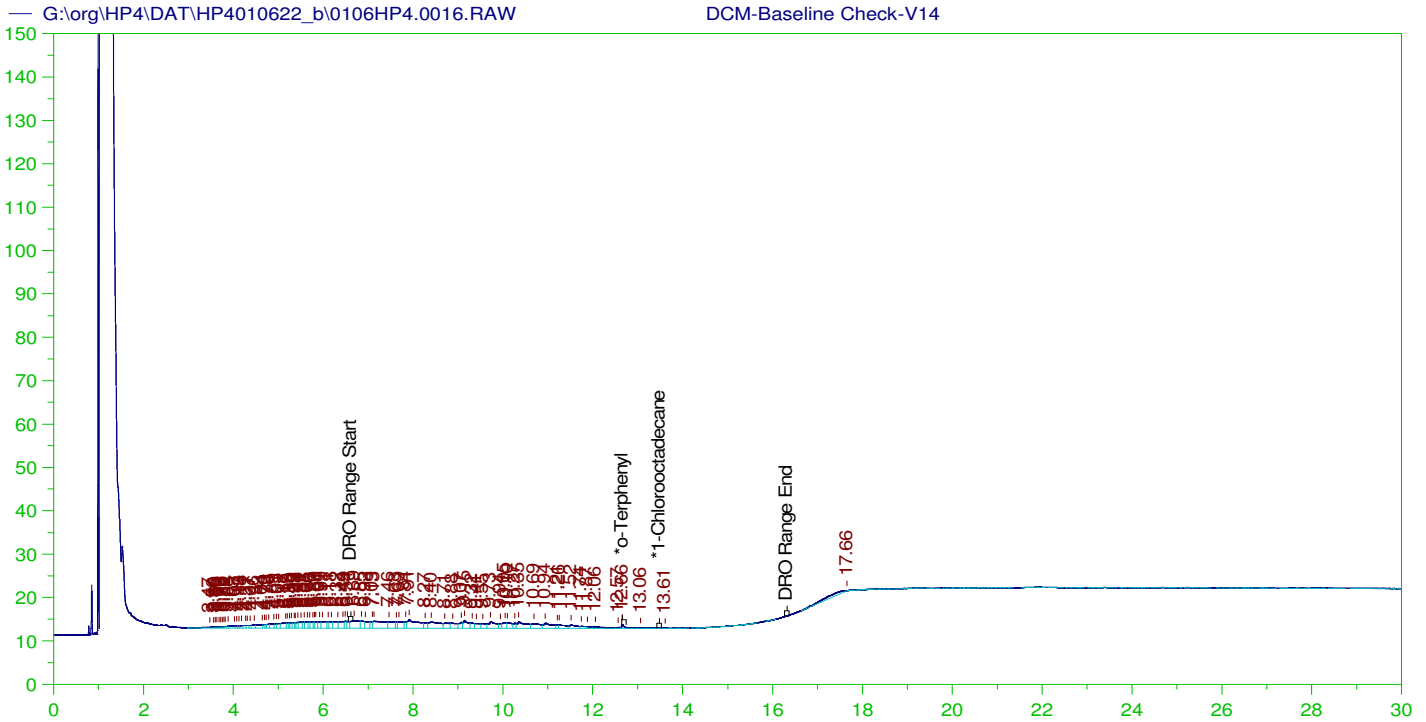
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122188-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0015.RAW
 Date & Time Acquired: 1/7/2022 3:15:30 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.204	.176	86.37	-
*1-Chlorooctadecane	13.43	.204	.	.04	-
*#Triacontane	16.746	.204	.111	54.47	-

DRO Area:559626.2 DRO Amount: 1.944104E-02
 TEH Area:1277264 TEH Amount: 4.437129E-02



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V14
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0016.RAW
 Date & Time Acquired: 1/7/2022 4:00:40 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.655	200.	.121	.06	-
*1-Chlorooctadecane	29.934	200.	.	.	-

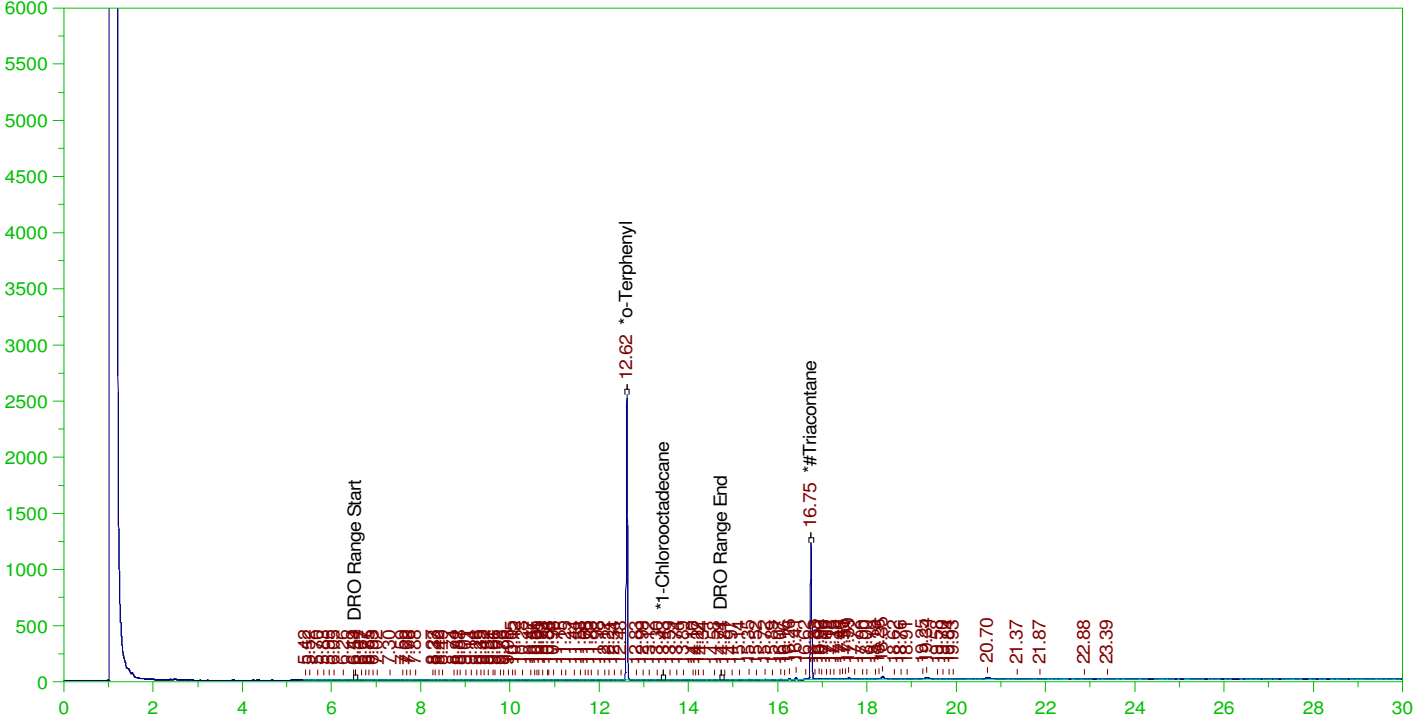
DRO Area:370493.9 DRO Amount: 12.6133
 TEH Area:585631.3 TEH Amount: 19.93755

ERH2238 (RHMW03)

Batch ID: 162502

G:\org\HP4\DAT\HP4010622_b\0106HP4.0017.RAW

B21121965-001D ;0106HP4 , \$HC-8015-DRO-W, RX-SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121965-001D ;0106HP4 , \$HC-8015-DRO-W, RX-SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0017.RAW
 Date & Time Acquired: 1/7/2022 4:46:07 AM
 Method File: G:\Org\HP4\methods\DR_8015-010617-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.615	.194	.131	67.29	-
*1-Chlorooctadecane	13.43	.194	.	.14	-
*#Triacontane	16.746	.194	.1	51.42	-

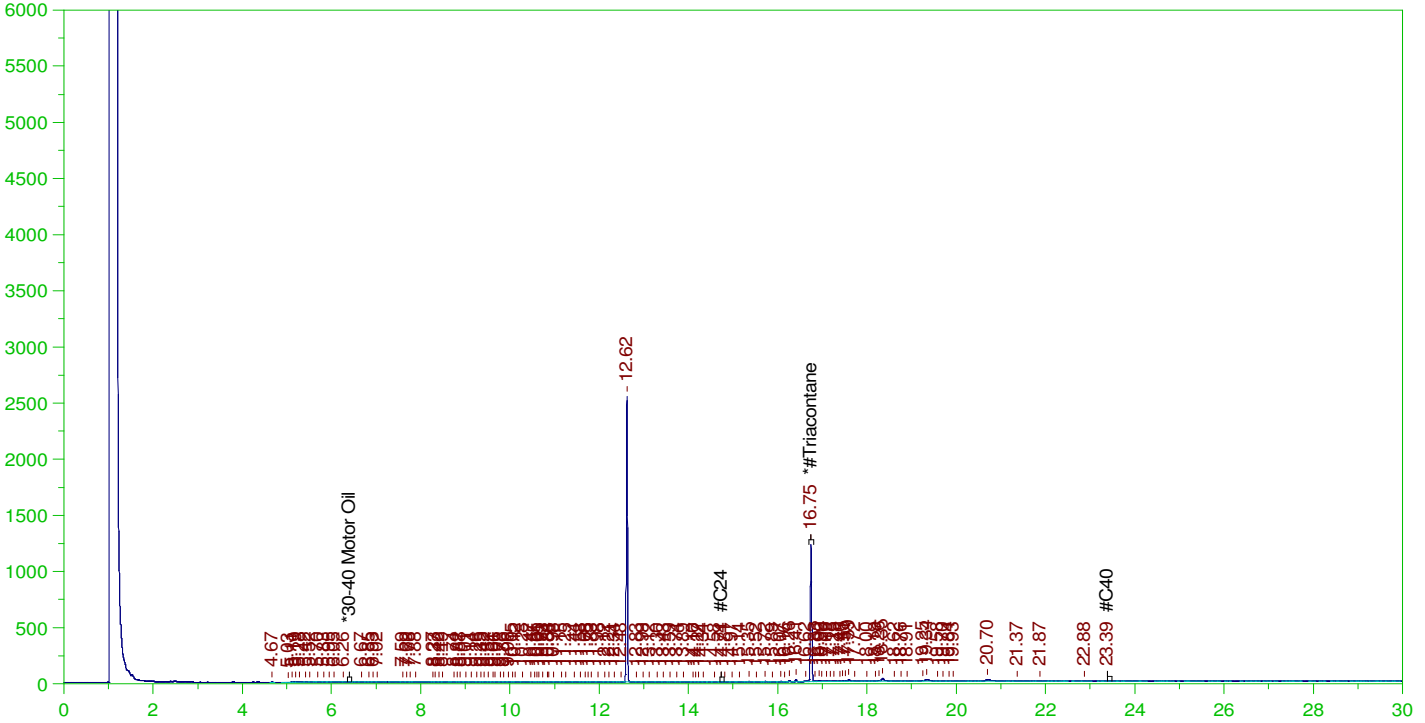
DRO Area:225342.7 DRO Amount: 7.448243E-03
 TEH Area:1053063 TEH Amount: 3.480686E-02

ERH2238 (RHMW03)

Batch ID: 162502

G:\org\HP4\DAT\HP4010622_b\0106HP4.0017.RAW

B21121965-001D ;0106HP4 , \$HC-8015-DRO-W, RX-SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21121965-001D ;0106HP4 , \$HC-8015-DRO-W, RX-SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0017.RAW
 Date & Time Acquired: 1/7/2022 4:46:07 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-010617-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.746	.485	.1	20.57

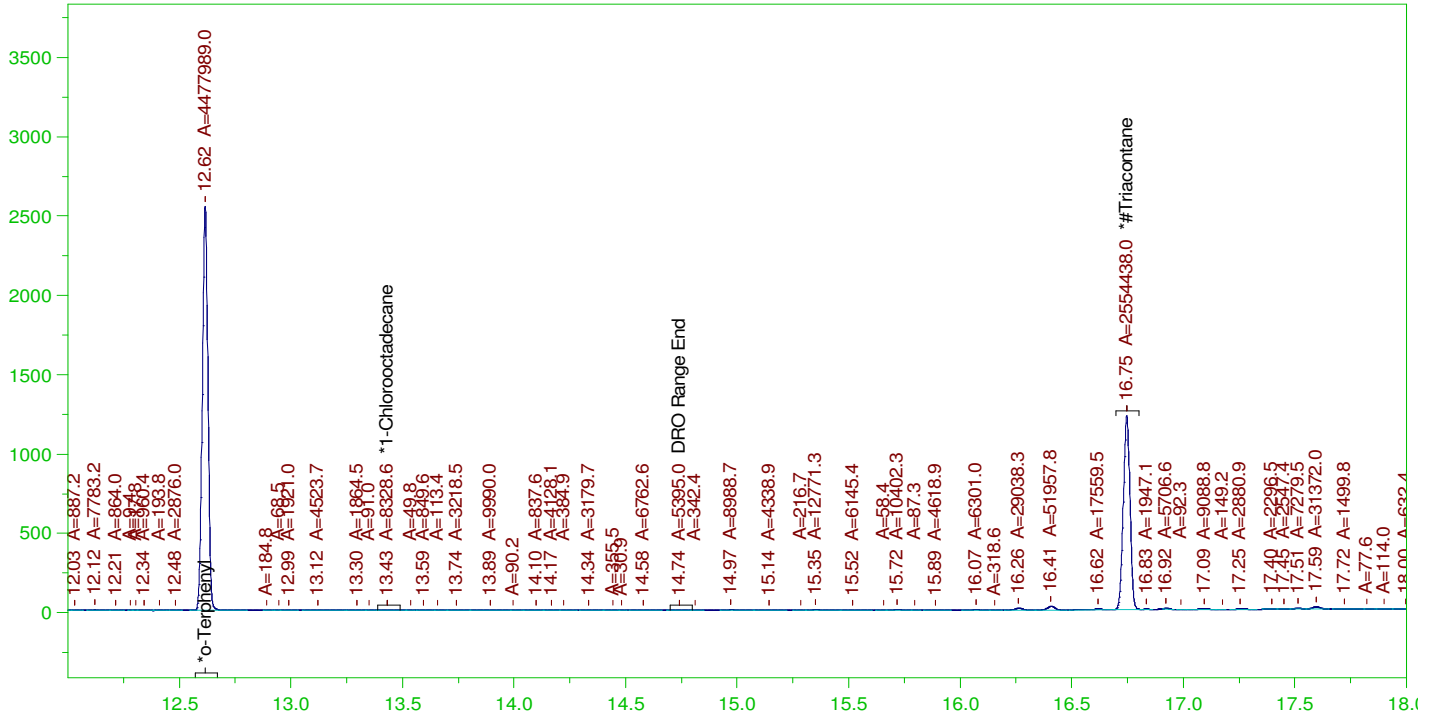
RRO Area:758869.8 RRO AMOUNT: 3.003587E-02

ERH2238 (RHMW03)

Batch ID: 162502

G:\org\HP4\DAT\HP4010622_b\0106HP4.0017.RAW

B21121965-001D ;0106HP4 , \$HC-8015-DRO-W, RX-SGT



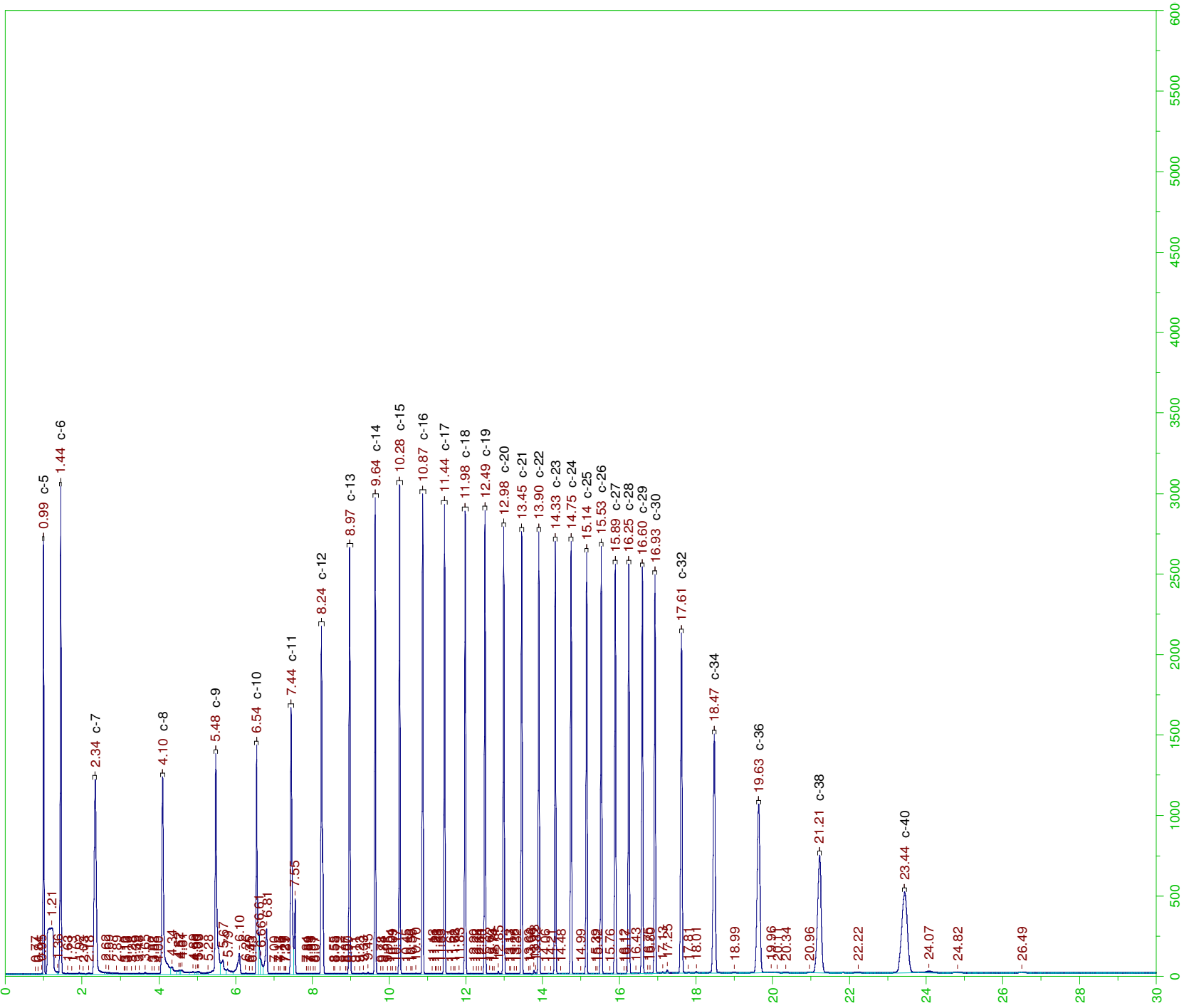
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

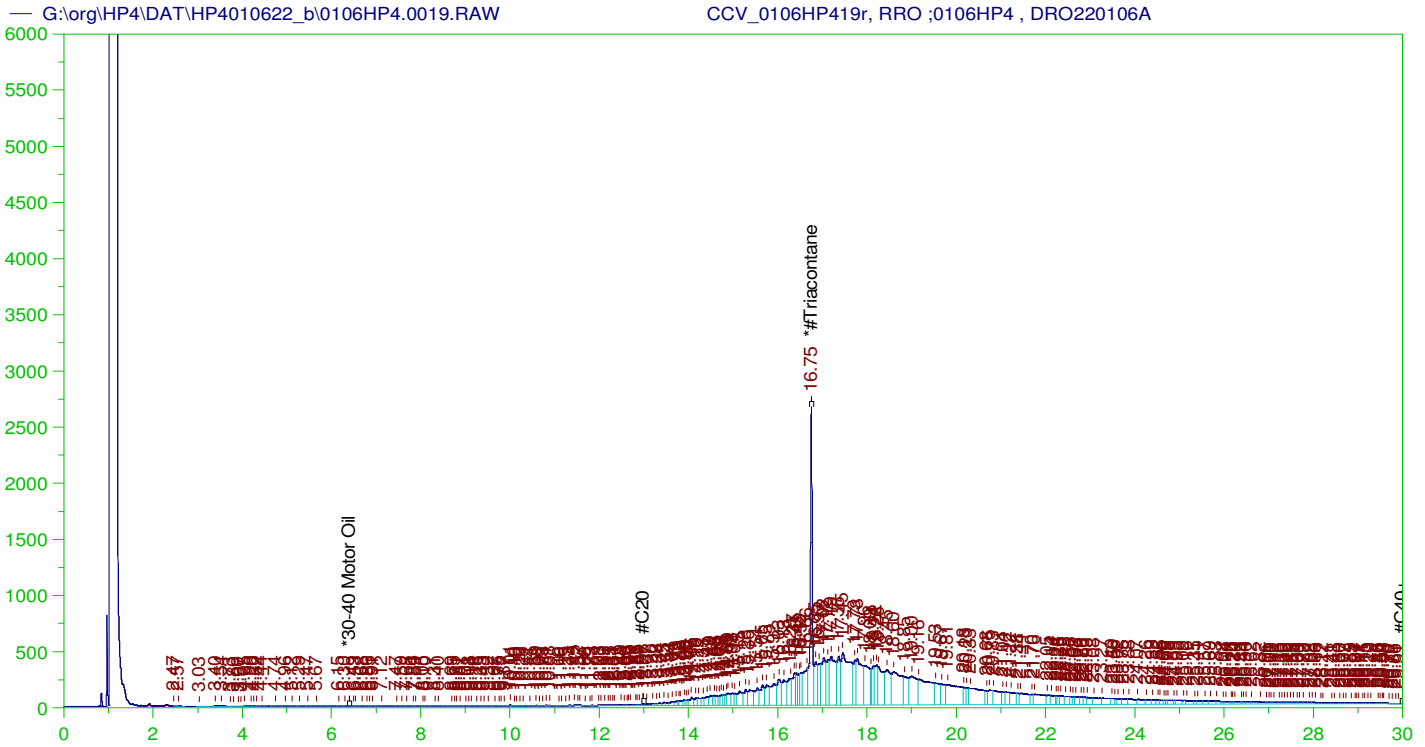
Sample Name: B21121965-001D ;0106HP4 , \$HC-8015-DRO-W, RX-SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0017.RAW
 Date & Time Acquired: 1/7/2022 4:46:07 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.615	.194	.13	67.2	-
*1-Chlorooctadecane	13.43	.194	.	.12	-
*#Triacontane	16.746	.194	.099	51.14	-

DRO Area:169507.8 DRO Amount: 5.602735E-03
 TEH Area:763783.6 TEH Amount: 2.524531E-02





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP419r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0019.RAW
 Date & Time Acquired: 1/7/2022 6:16:24 AM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.752	500.	308.68	61.74	-

RRO TEH (Oil Range) Area:1.090281E+08 RRO TEH (Oil Range) AMOUNT: 4444.763

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0019.RAW

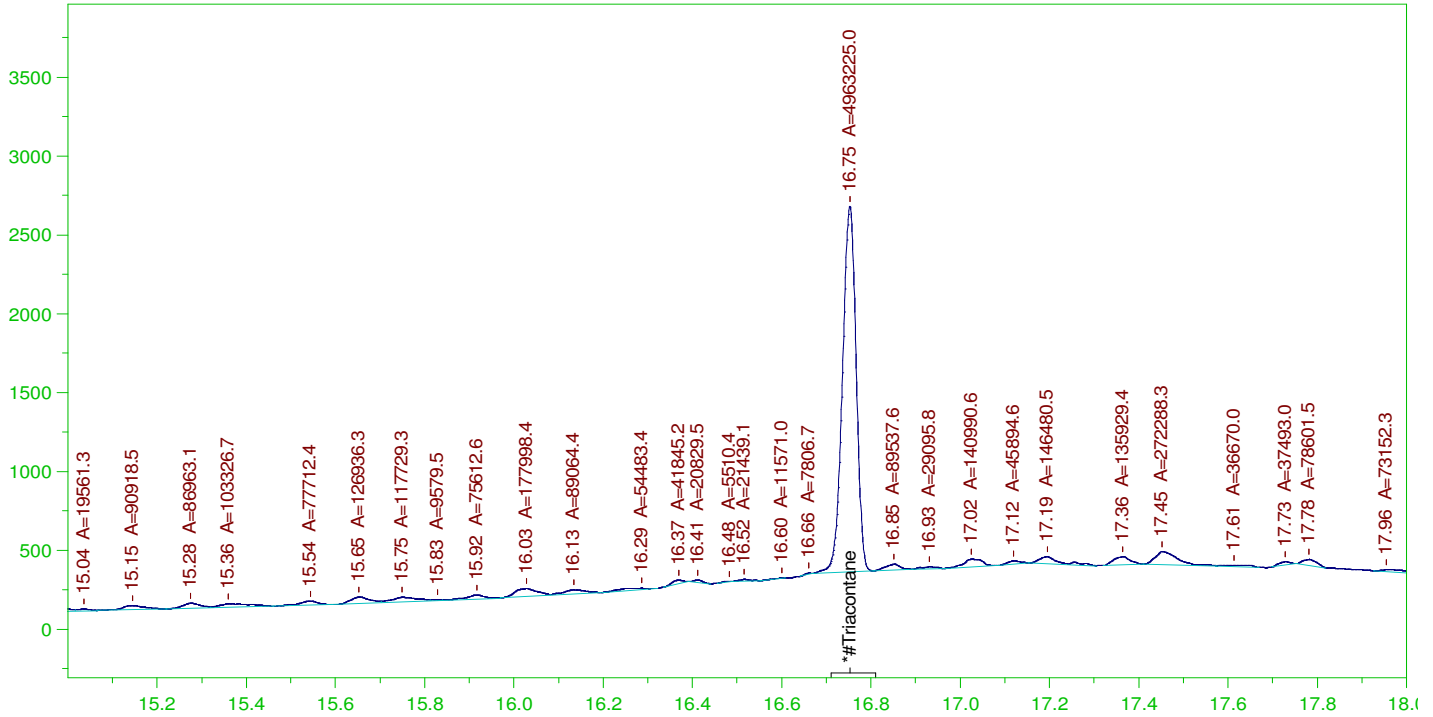
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.	75-125	

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.752	200.	308.68	154.34	75-125

AMN 01/26/2022

G:\org\HP4\DAT\HP4010622_b\0106HP4.0019.RAW

CCV_0106HP419r, RRO ;0106HP4 , DRO220106A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP419r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0019.RAW
 Date & Time Acquired: 1/7/2022 6:16:24 AM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.752	500.	198.737	39.75

RRO Area:4049751 RRO AMOUNT: 165.0967

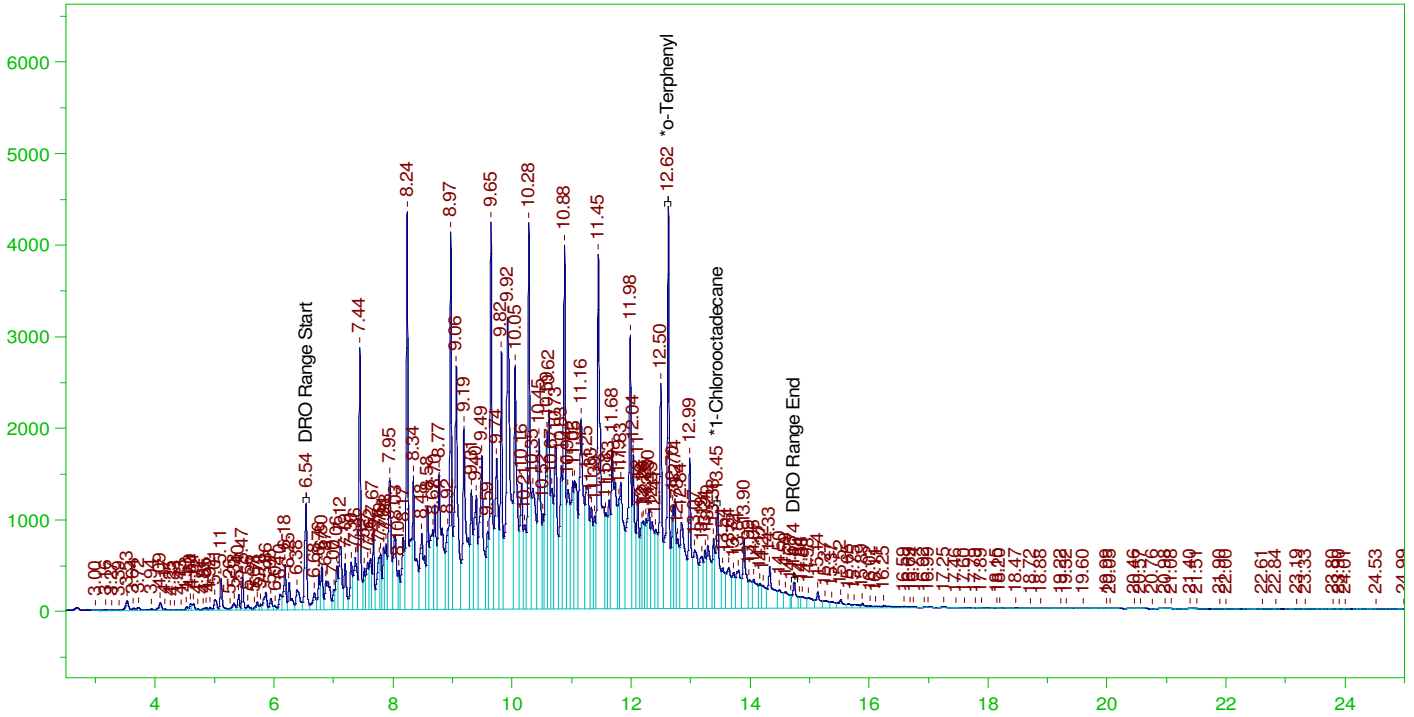
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0019.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.752	200.	198.737	99.37	75-125

G:\org\HP4\DAT\HP4010622_b\0106HP4.0020.RAW

CCV_0106HP420r, DRO ;0106HP4 , DRO220105B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP420r, DRO ;0106HP4 , DRO220105B
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0020.RAW
 Date & Time Acquired: 1/7/2022 7:01:36 AM
 Method File: G:\Org\HP4\methods\DC_8015-C24-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.625	200.	352.765	176.38
*1-Chlorooctadecane	13.451	200.	132.034	66.02

DRO Area: 4.248929E+08 DRO Amount: 14465.29
 TEH Area: 4.408388E+08 TEH Amount: 15008.16

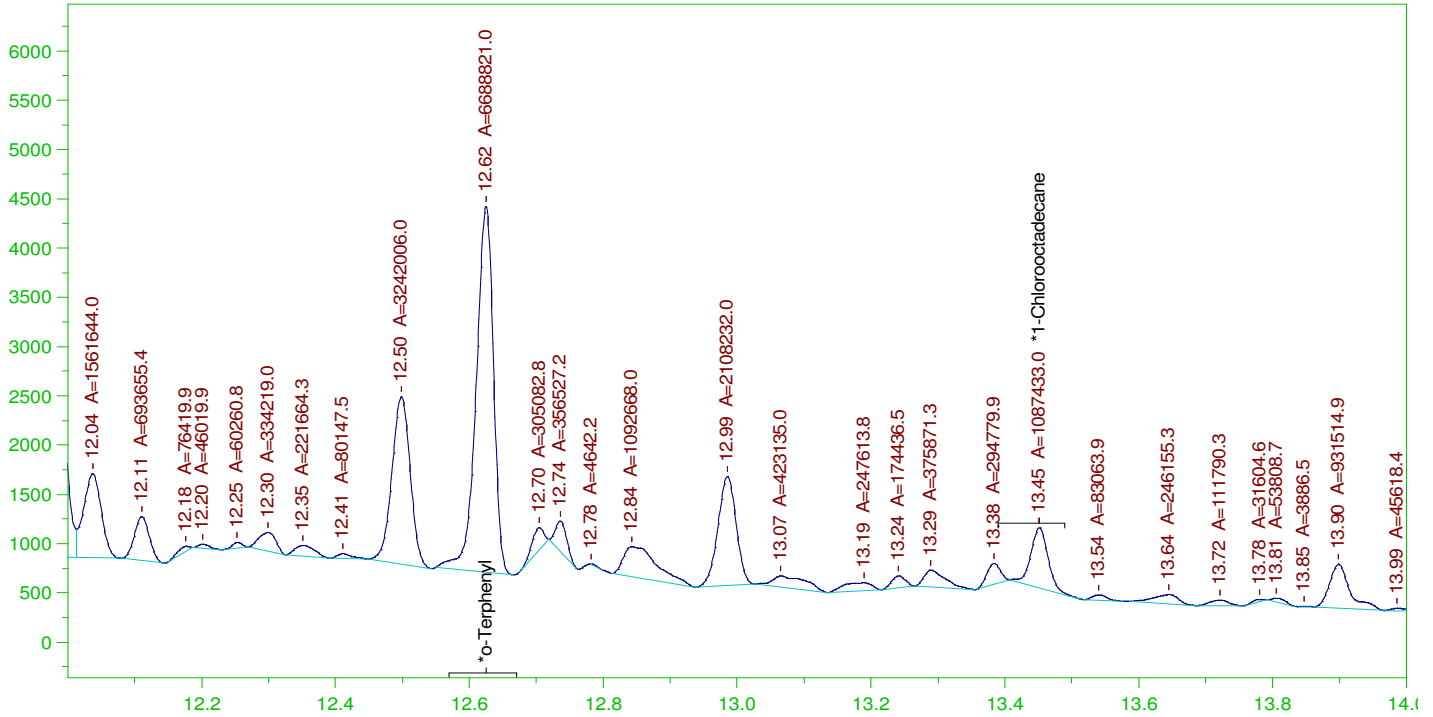
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0020.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	15008.16	100.05	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.625	200.	352.765	176.38	85-115
*1-Chlorooctadecane	13.451	200.	132.034	66.02	85-115

G:\org\HP4\DAT\HP4010622_b\0106HP4.0020.RAW

CCV_0106HP420r, DRO ;0106HP4 , DRO220105B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP420r, DRO ;0106HP4 , DRO220105B
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0020.RAW
 Date & Time Acquired: 1/7/2022 7:01:36 AM
 Method File: G:\Org\HP4\methods\DS_8015-C24-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

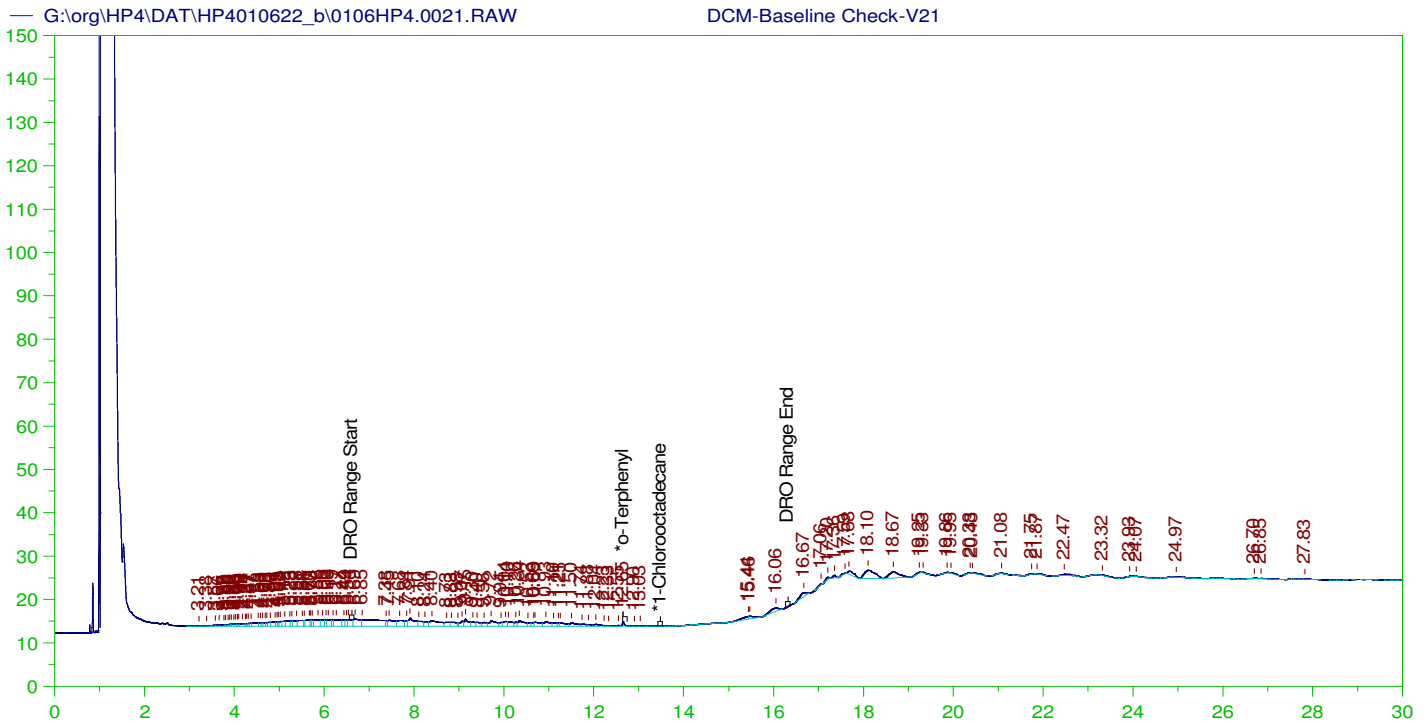
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.625	200.	200.747	100.37
*1-Chlorooctadecane	13.451	200.	32.636	16.32

DRO Area: 1.865504E+08 DRO Amount: 6351.024
 TEH Area: 1.964838E+08 TEH Amount: 6689.204

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0020.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	6689.2	44.59	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.625	200.	200.747	100.37	85-115
*1-Chlorooctadecane	13.451	200.	32.636	16.32	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V21
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0021.RAW
 Date & Time Acquired: 1/7/2022 7:46:26 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.65	200.	.141	.07
*1-Chlorooctadecane	29.913	200.	.	.

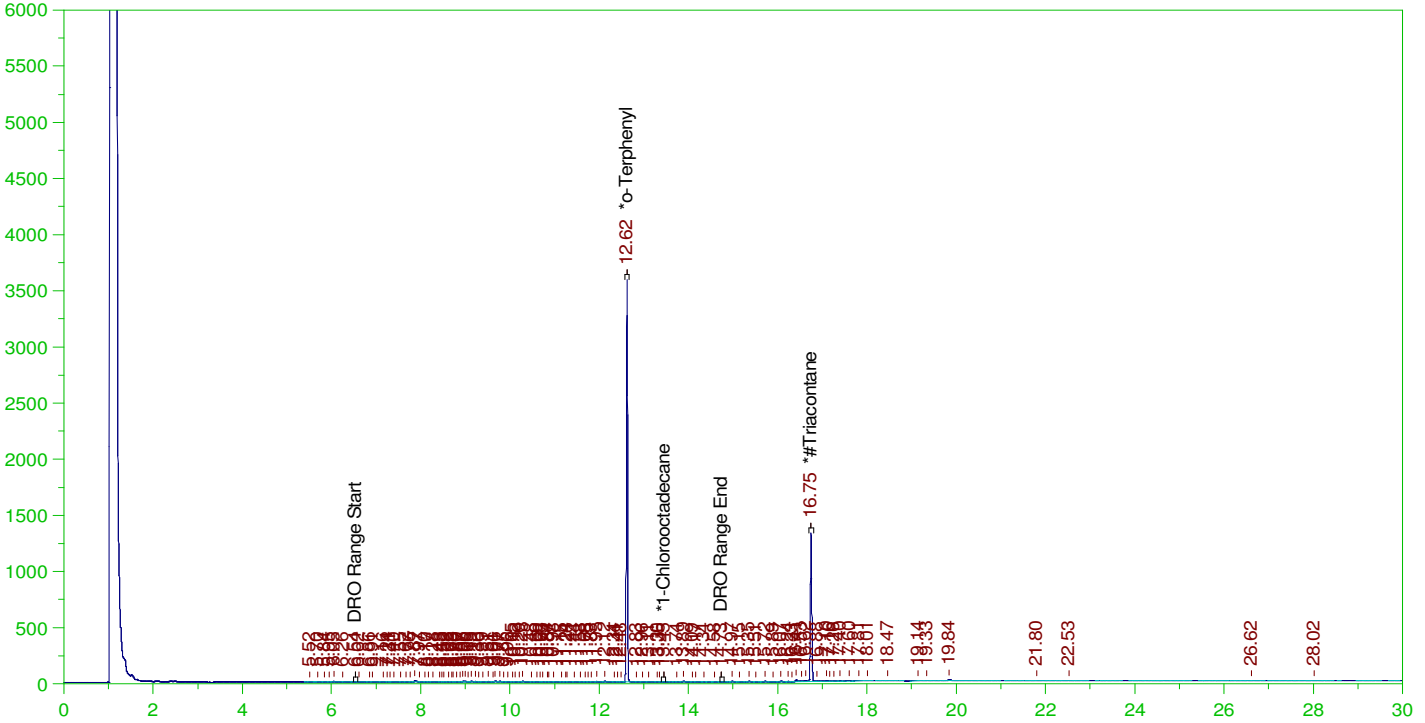
DRO Area:356398.2 DRO Amount: 12.13341
 TEH Area:661091.3 TEH Amount: 22.50655

ERH2289 (RHMW2254-01 LF)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0022.RAW

B22010002-002D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-002D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0022.RAW
 Date & Time Acquired: 1/7/2022 8:31:12 AM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.619	.19	.181	95.06	-
*1-Chlorooctadecane	13.455	.19	.	.05	-
*#Triacontane	16.746	.19	.107	56.14	-

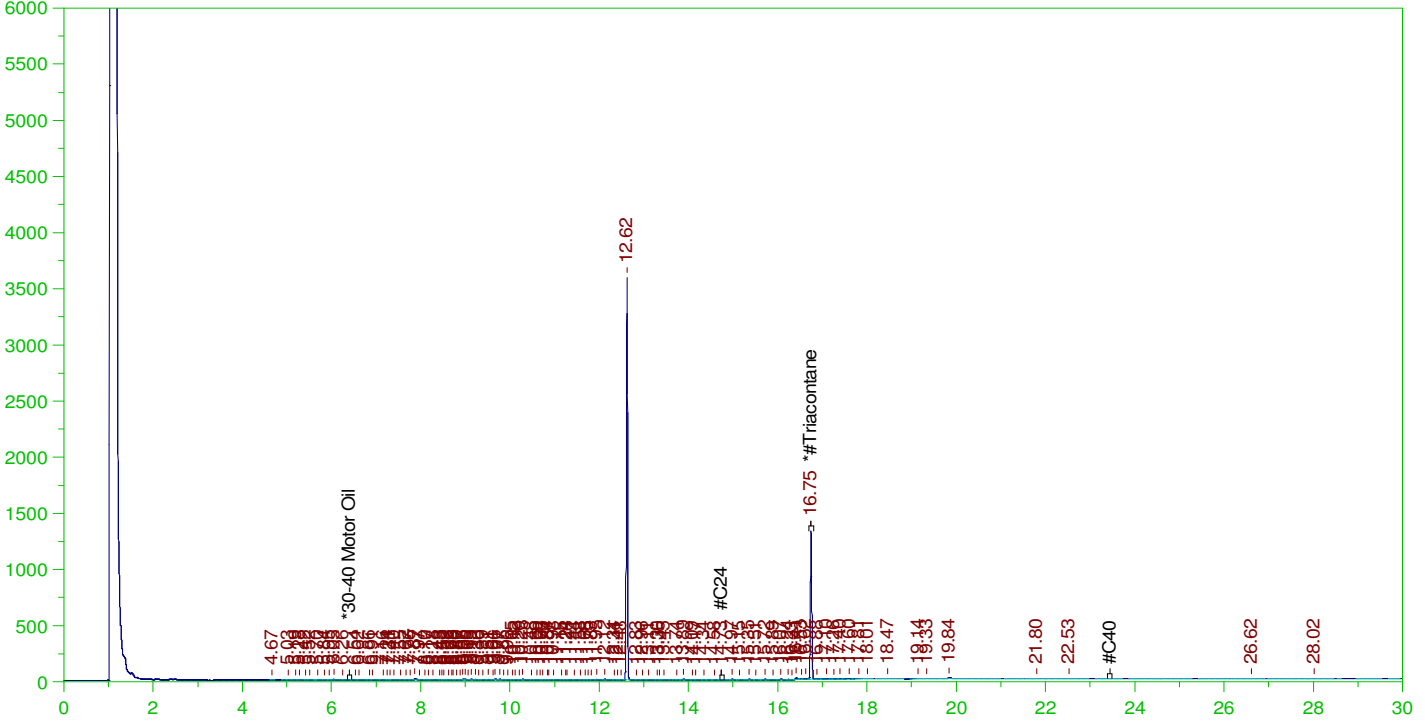
DRO Area:781695.1 DRO Amount: 0.0253452
 TEH Area:1094582 TEH Amount: 3.549004E-02

ERH2289 (RHMW2254-01 LF)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0022.RAW

B22010002-002D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010002-002D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0022.RAW
 Date & Time Acquired: 1/7/2022 8:31:12 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.746	.476	.107	22.38

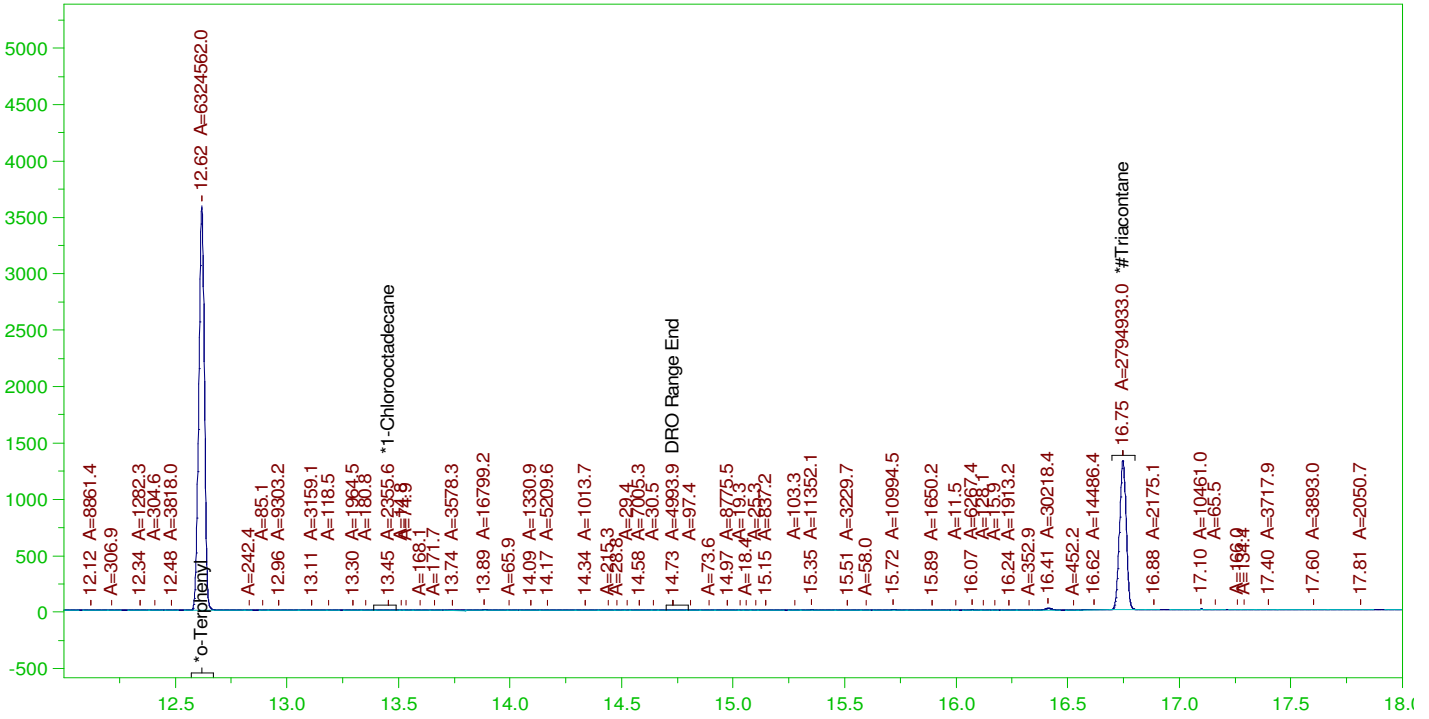
RRO Area:208912.8 RRO AMOUNT: 8.111217E-03

ERH2289 (RHMW2254-01 LF)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0022.RAW

B22010002-002D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-002D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0022.RAW
 Date & Time Acquired: 1/7/2022 8:31:12 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.619	.19	.181	94.91	-
*1-Chlorooctadecane	13.455	.19	.	.04	-
*#Triacontane	16.746	.19	.107	55.96	-

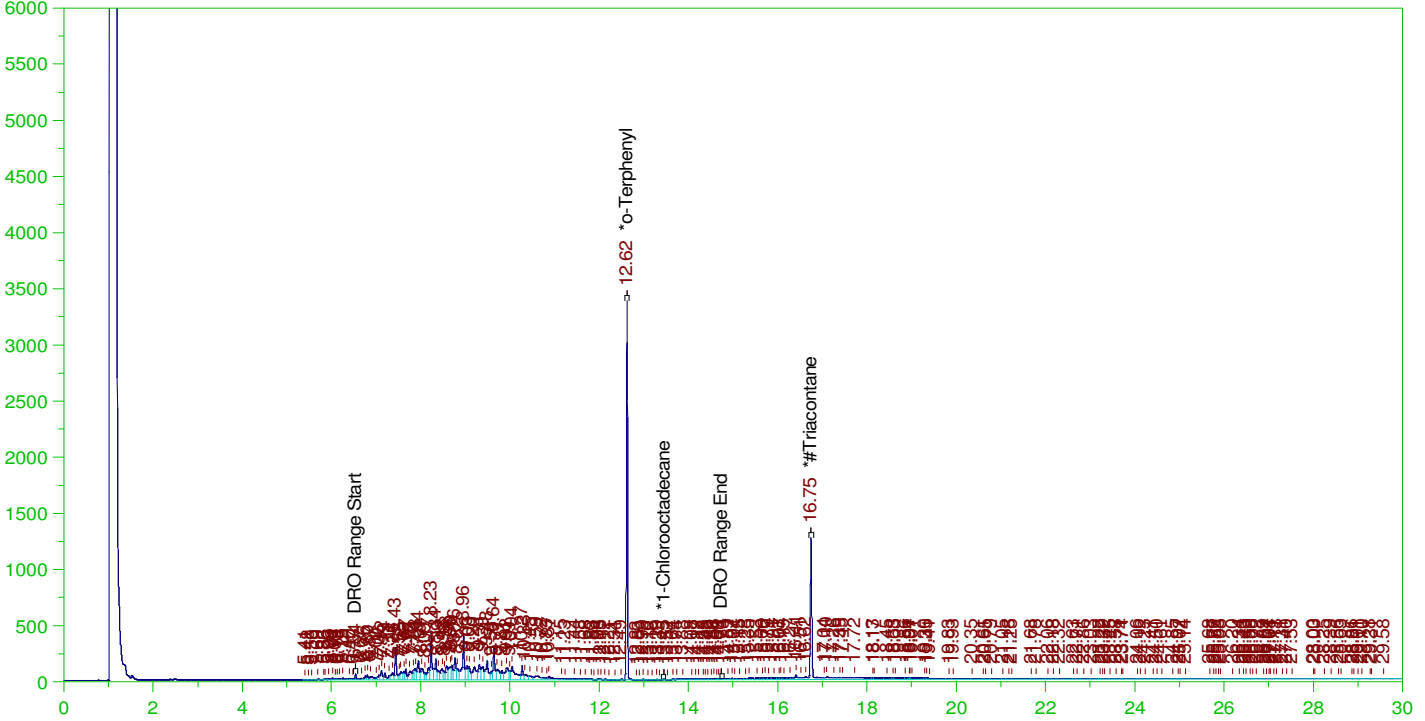
DRO Area:707685.6 DRO Amount: 2.294556E-02
 TEH Area:1004856 TEH Amount: 3.258084E-02

ERH2287 (RHMW2254-01 Bailer)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0023.RAW

B22010002-001D ;0106HP4, \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0023.RAW
 Date & Time Acquired: 1/7/2022 9:16:25 AM
 Method File: G:\Org\HP4\methods\D3_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.619	.204	.179	87.78	-
*1-Chlorooctadecane	13.452	.204	.	.11	-
*#Triacontane	16.746	.204	.122	59.74	-

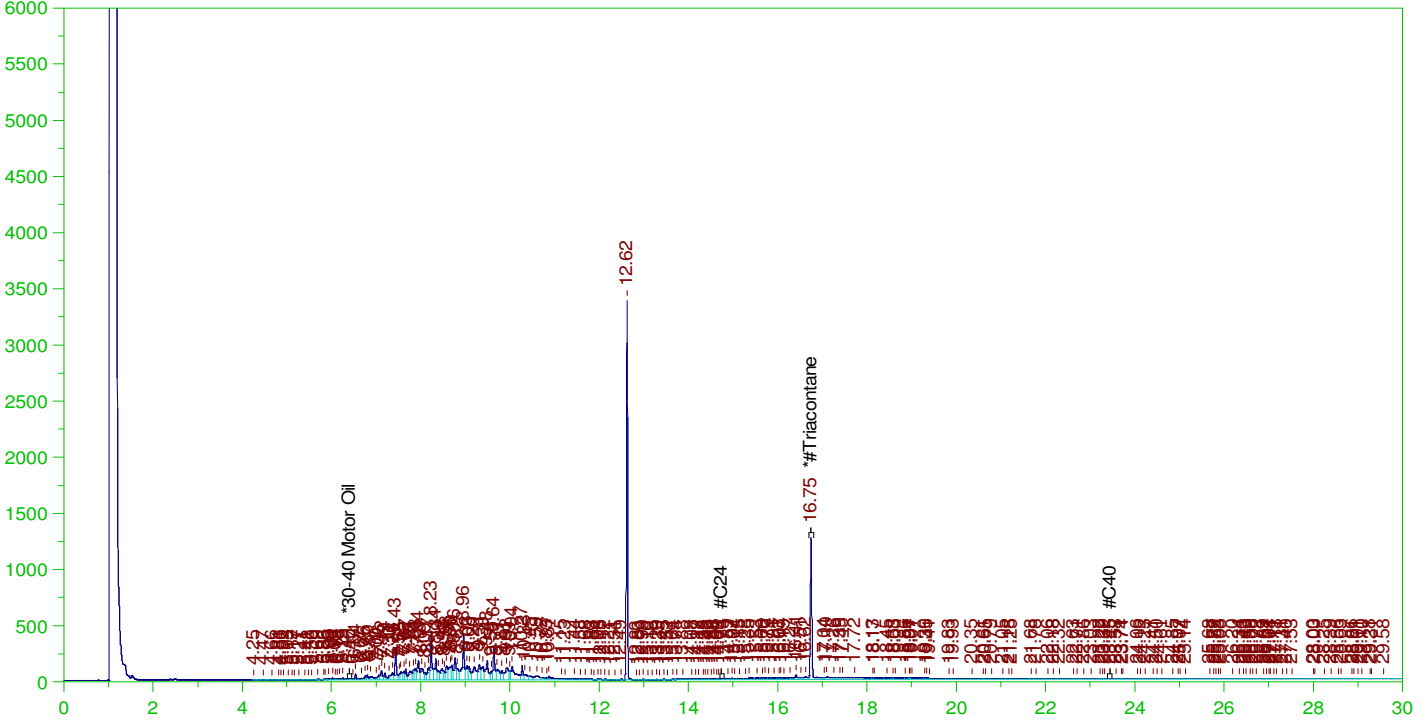
DRO Area:1.955581E+07 DRO Amount: 0.6793557
 TEH Area:2.56502E+07 TEH Amount: 0.8910708

ERH2287 (RHMW2254-01 Bailer)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0023.RAW

B22010002-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010002-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0023.RAW
 Date & Time Acquired: 1/7/2022 9:16:25 AM
 Method File: G:\Org\HP4\Methods\D3_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.746	.51	.122	23.89	-

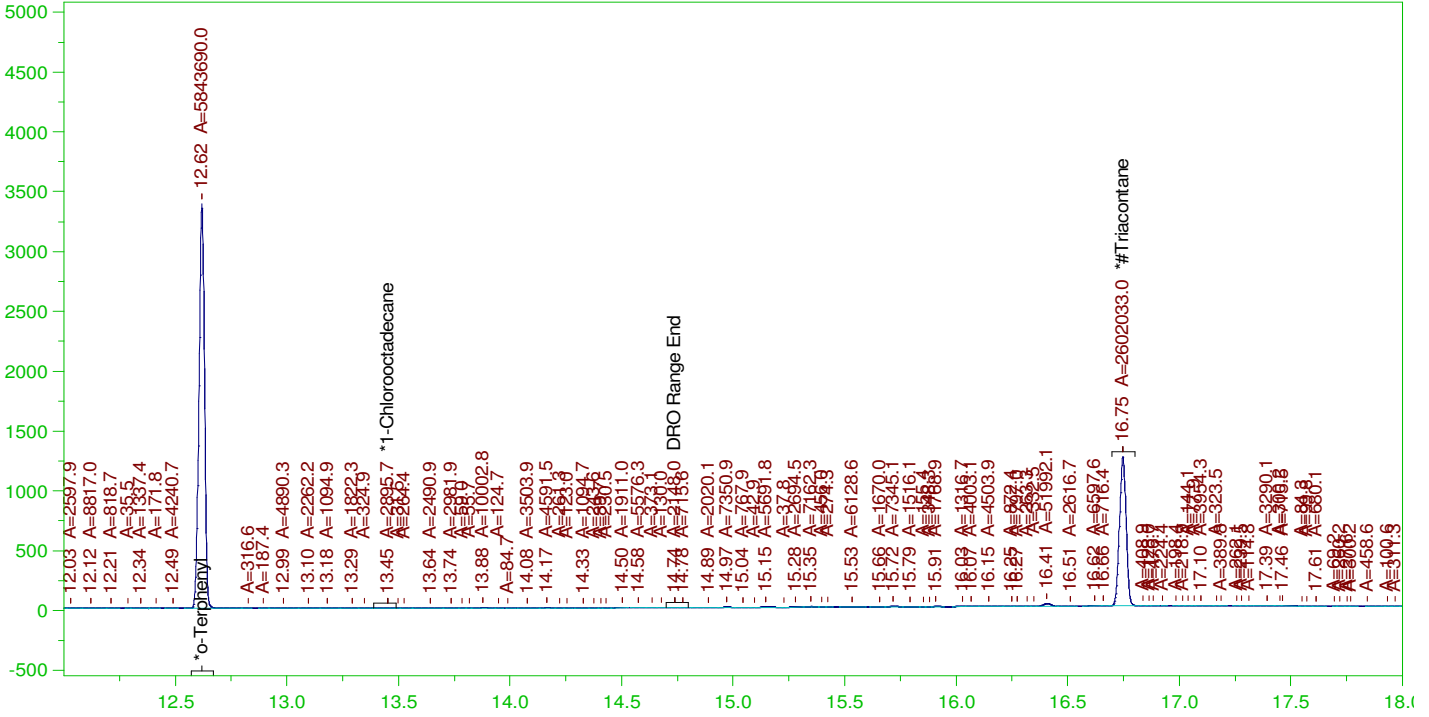
RRO Area:5179576 RRO AMOUNT: 0.2154658

ERH2287 (RHMW2254-01 Bailer)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0023.RAW

B22010002-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0023.RAW
 Date & Time Acquired: 1/7/2022 9:16:25 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 980 Dilution: 1 S.A.: 1

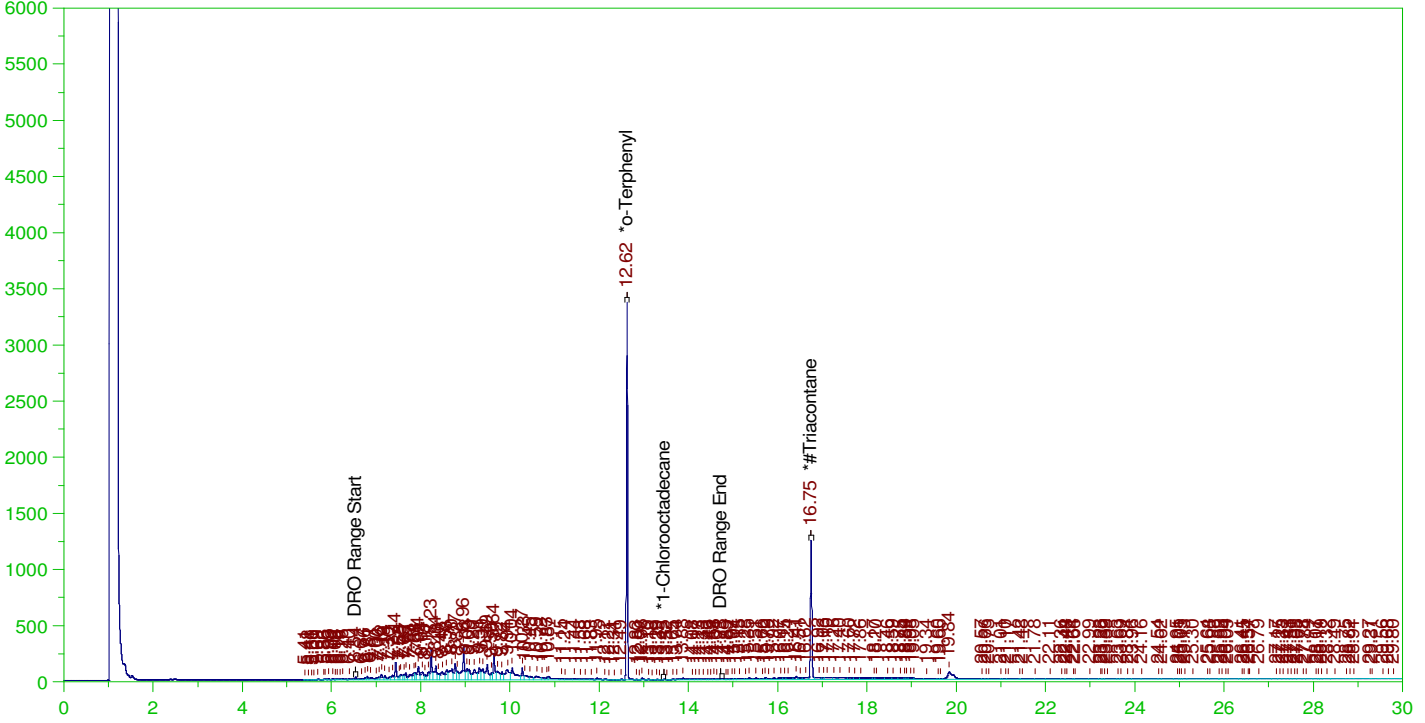
Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.619	.204	.179	87.69	-
*1-Chlorooctadecane	13.452	.204	.	.04	-
*#Triacontane	16.746	.204	.106	52.1	-

DRO Area:1.910345E+07 DRO Amount: 0.6636412
 TEH Area:1.968773E+07 TEH Amount: 0.6839387

ERH2288 (RHMW2254-01 Bailer) FD
G:\org\HP4\DAT\HP4010622_b\0106HP4.0024.RAW

Batch ID: 162648
B22010002-003B ;0106HP4, \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-003B ;0106HP4 , \$HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0024.RAW
Date & Time Acquired: 1/7/2022 10:01:39 AM
Method File: G:\Org\HP4\methods\D3_8015-C24T-OJ-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

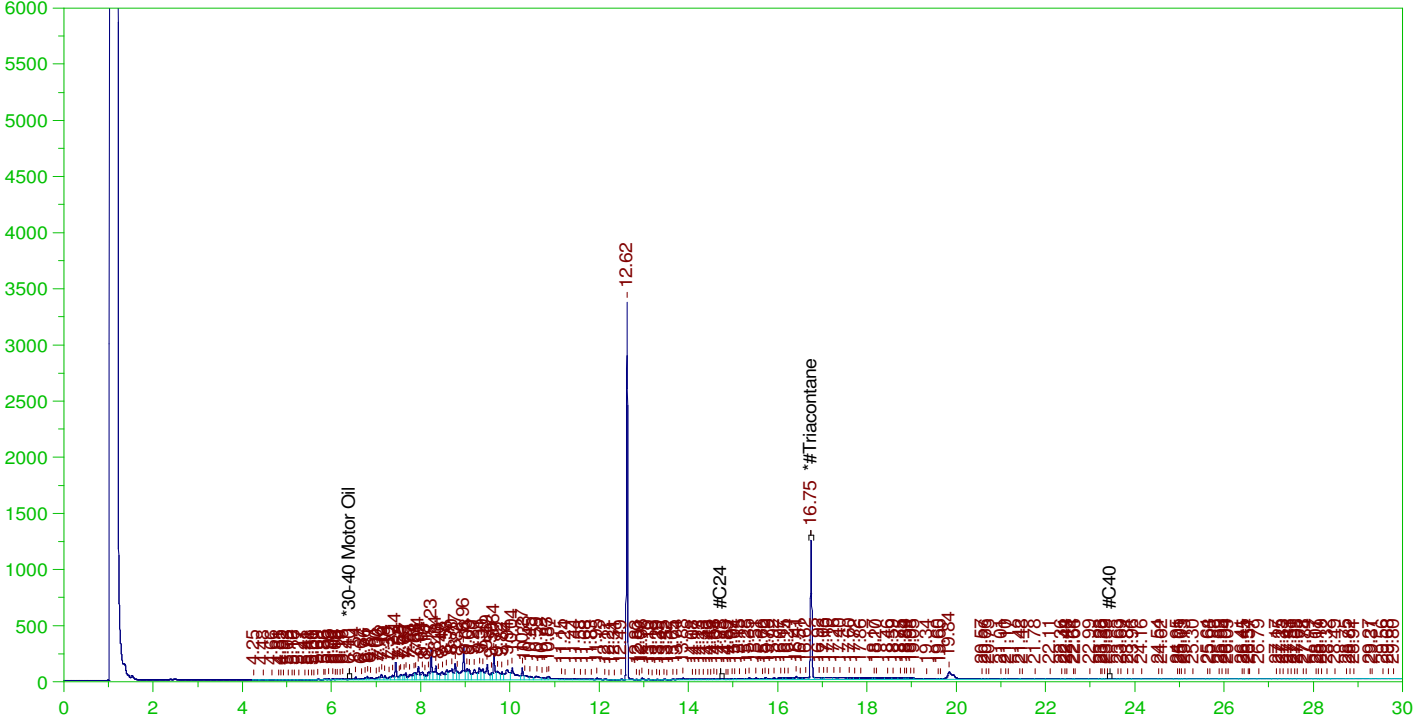
Mean RF for TEH: 29373.28
Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.62	.192	.168	87.14	-
*1-Chlorooctadecane	13.454	.192	.	.07	-
*#Triacontane	16.748	.192	.103	53.44	-

DRO Area:1.462289E+07 DRO Amount: 0.4786824
TEH Area:2.039748E+07 TEH Amount: 0.6677145

ERH2288 (RHMW2254-01 Bailer) FD
G:\org\HP4\DAT\HP4010622_b\0106HP4.0024.RAW

Batch ID: 162648
B22010002-003B ;0106HP4, \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22010002-003B ;0106HP4 , \$HC-8015-DRO-W, SGT
Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0024.RAW
Date & Time Acquired: 1/7/2022 10:01:39 AM
Method File: G:\Org\HP4\Methods\D3_ORO-S-ACA-L%.met
Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

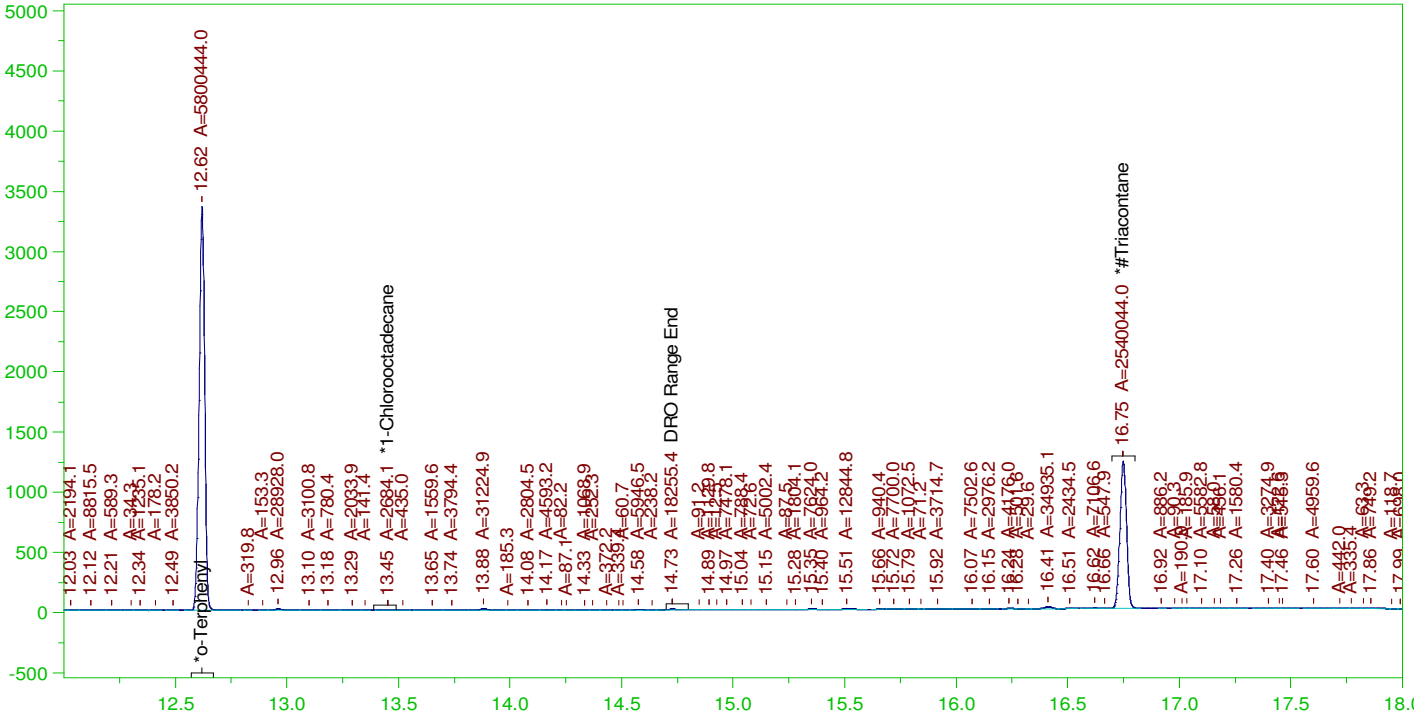
Mean RF for for Residual Range Organics Calculations: 24529.56
Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.748	.481	.103	21.38	-

RRO Area:5021851 RRO AMOUNT: 0.1968524

ERH2288 (RHMW2254-01 Bailer) FD
G:\org\HP4\DAT\HP4010622_b\0106HP4.0024.RAW

Batch ID: 162648
B22010002-003B ;0106HP4 , \$HC-8015-DRO-W, SGT



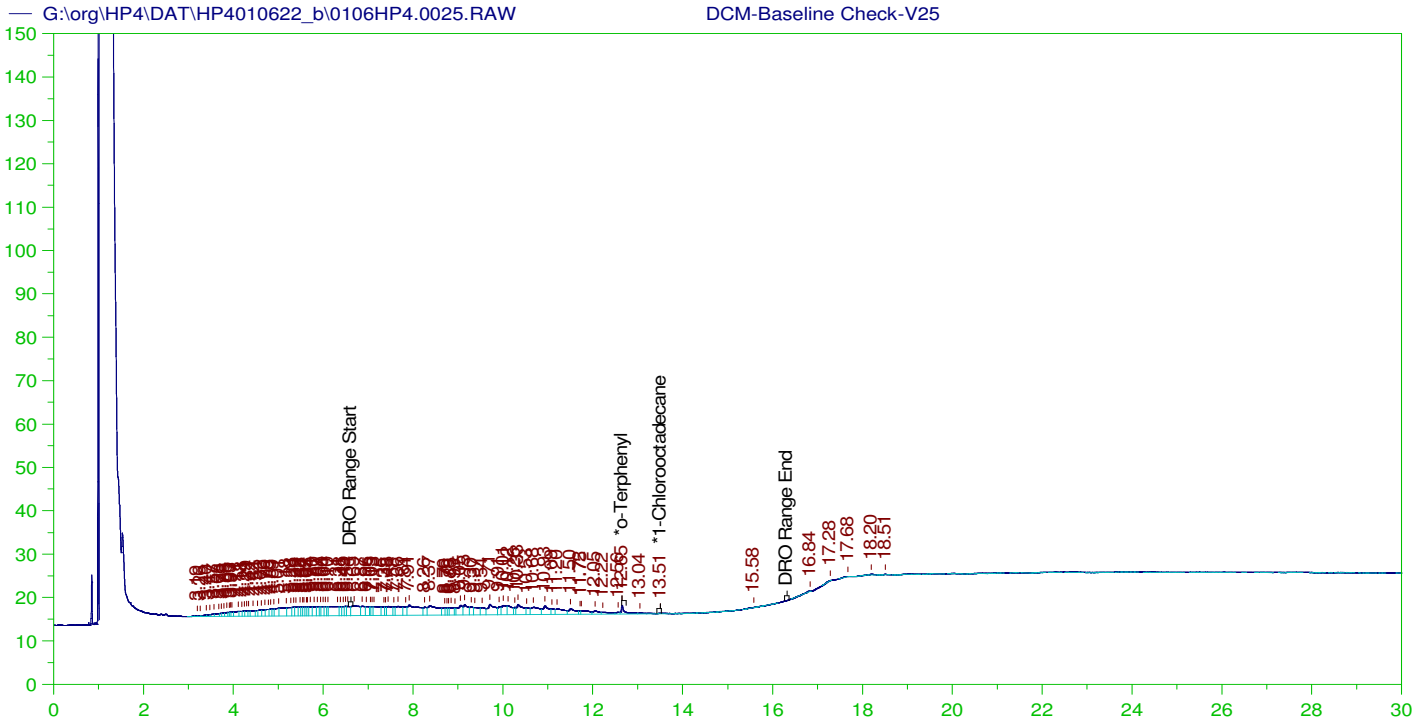
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22010002-003B ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0024.RAW
 Date & Time Acquired: 1/7/2022 10:01:39 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.62	.192	.167	87.04	-
*1-Chlorooctadecane	13.454	.192	.	.04	-
*#Triacontane	16.748	.192	.098	50.85	-

DRO Area:1.425142E+07 DRO Amount: 0.4665222
 TEH Area:1.493396E+07 TEH Amount: 0.4888652



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V25
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0025.RAW
 Date & Time Acquired: 1/7/2022 10:47:04 AM
 Method File: G:\Org\HP4\methods\DR_8015-OH-LEXP.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.65	200.	.314	.16	-
*1-Chlorooctadecane	13.505	200.	.029	.01	-

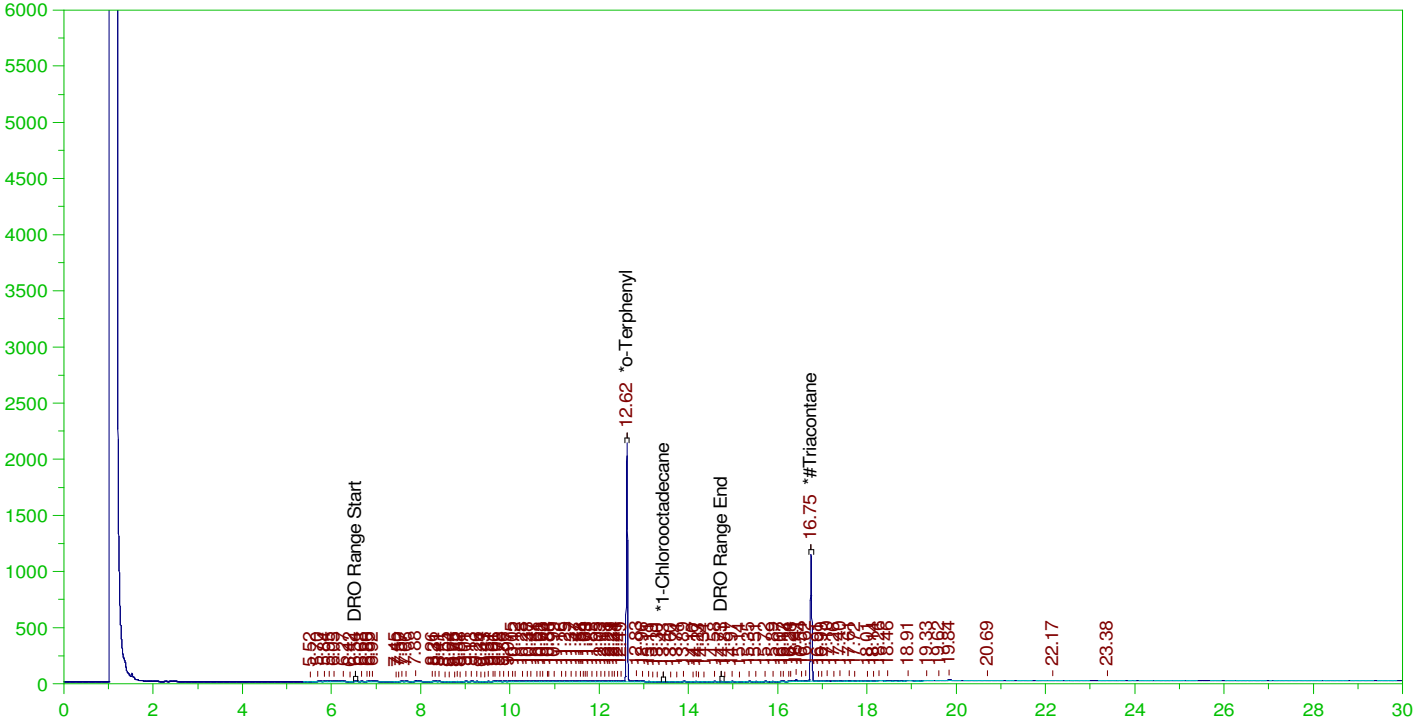
DRO Area:547591.6 DRO Amount: 18.64251
 TEH Area:868764.1 TEH Amount: 29.57668

ERH2285 (RHMW05) MS/MSD

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0026.RAW

B21122168-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0026.RAW
 Date & Time Acquired: 1/7/2022 11:31:57 AM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.194	.11	56.53	-
*1-Chlorooctadecane	13.434	.194	.	.12	-
*#Triacontane	16.747	.194	.094	48.48	-

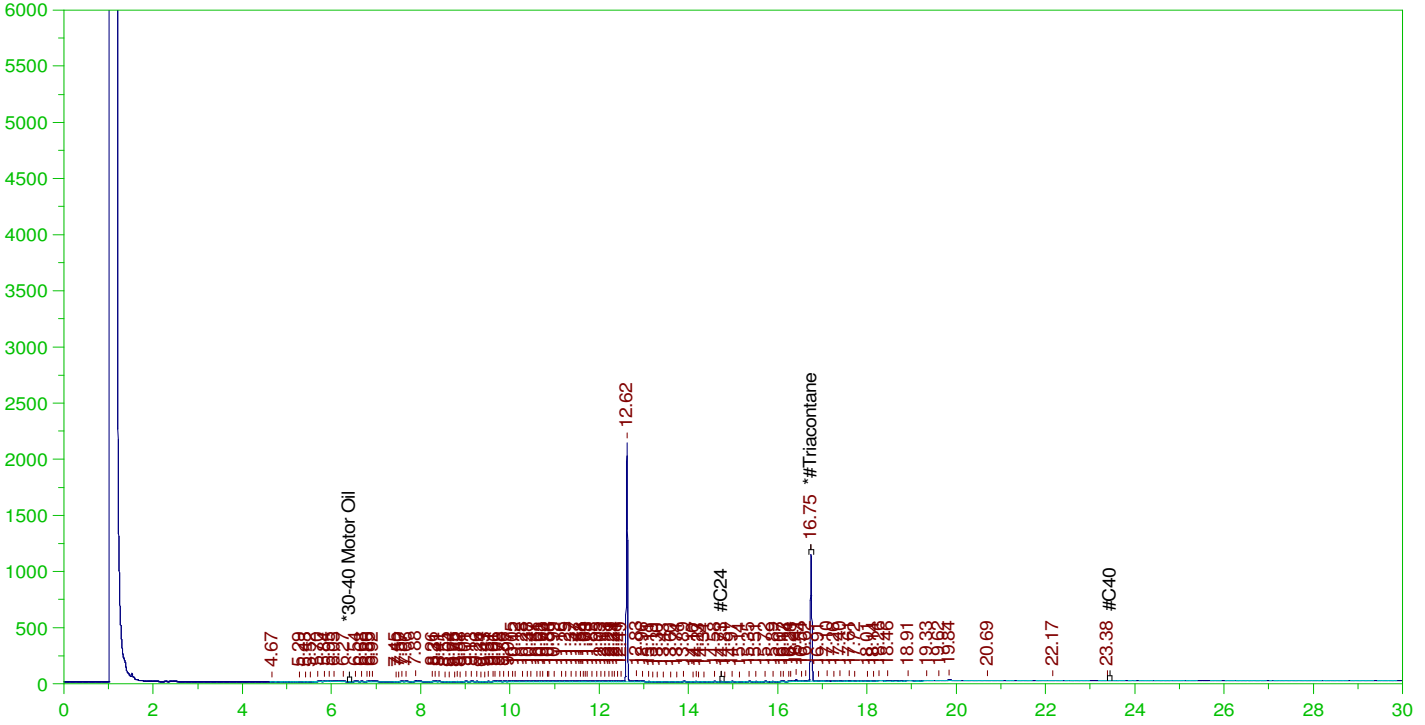
DRO Area:748481.1 DRO Amount: 2.473952E-02
 TEH Area:1043627 TEH Amount: 3.449497E-02

ERH2285 (RHMW05) MS/MSD

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0026.RAW

B21122168-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0026.RAW
 Date & Time Acquired: 1/7/2022 11:31:57 AM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.747	.485	.094	19.32	-

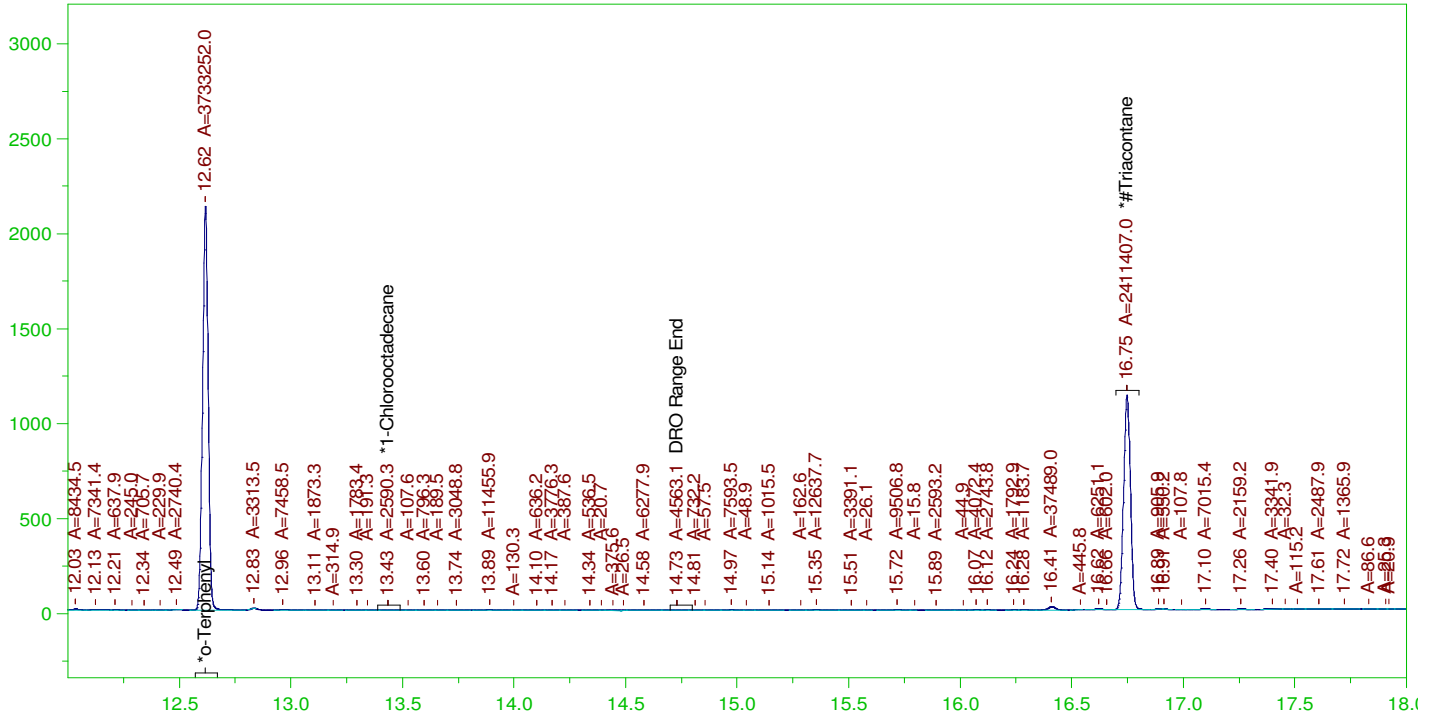
RRO Area:214828.6 RRO AMOUNT: 8.502862E-03

ERH2285 (RHMW05) MS/MSD

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0026.RAW

B21122168-001D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0026.RAW
 Date & Time Acquired: 1/7/2022 11:31:57 AM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.617	.194	.109	56.02	-
*1-Chlorooctadecane	13.434	.194	.	.04	-
*Triacontane	16.747	.194	.094	48.28	-

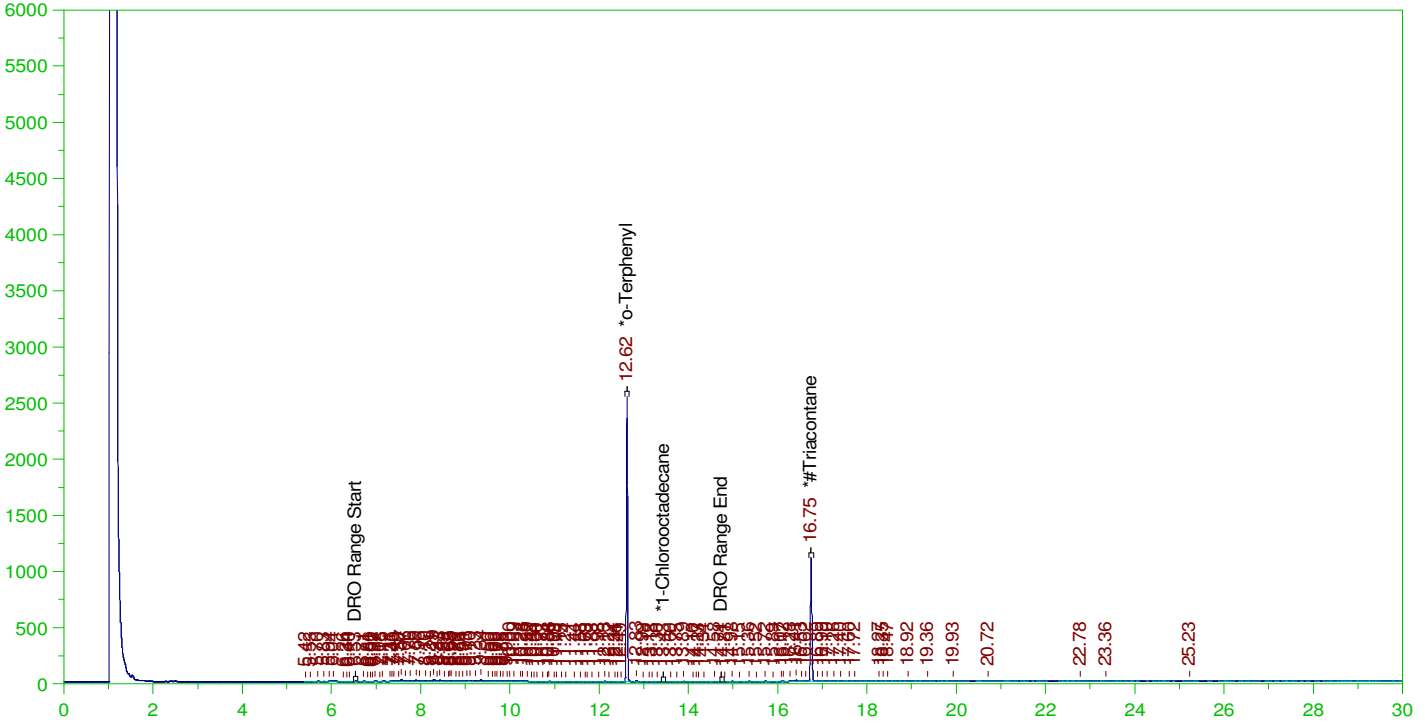
DRO Area:356567 DRO Amount: 0.0117856
 TEH Area:789979.1 TEH Amount: 2.611115E-02

ERH2278 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0027.RAW

B21122168-006D ;0106HP4, \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-006D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0027.RAW
 Date & Time Acquired: 1/7/2022 12:16:59 PM
 Method File: G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.19	.126	66.38	-
*1-Chlorooctadecane	13.434	.19	.	.1	-
*#Triacontane	16.748	.19	.092	48.08	-

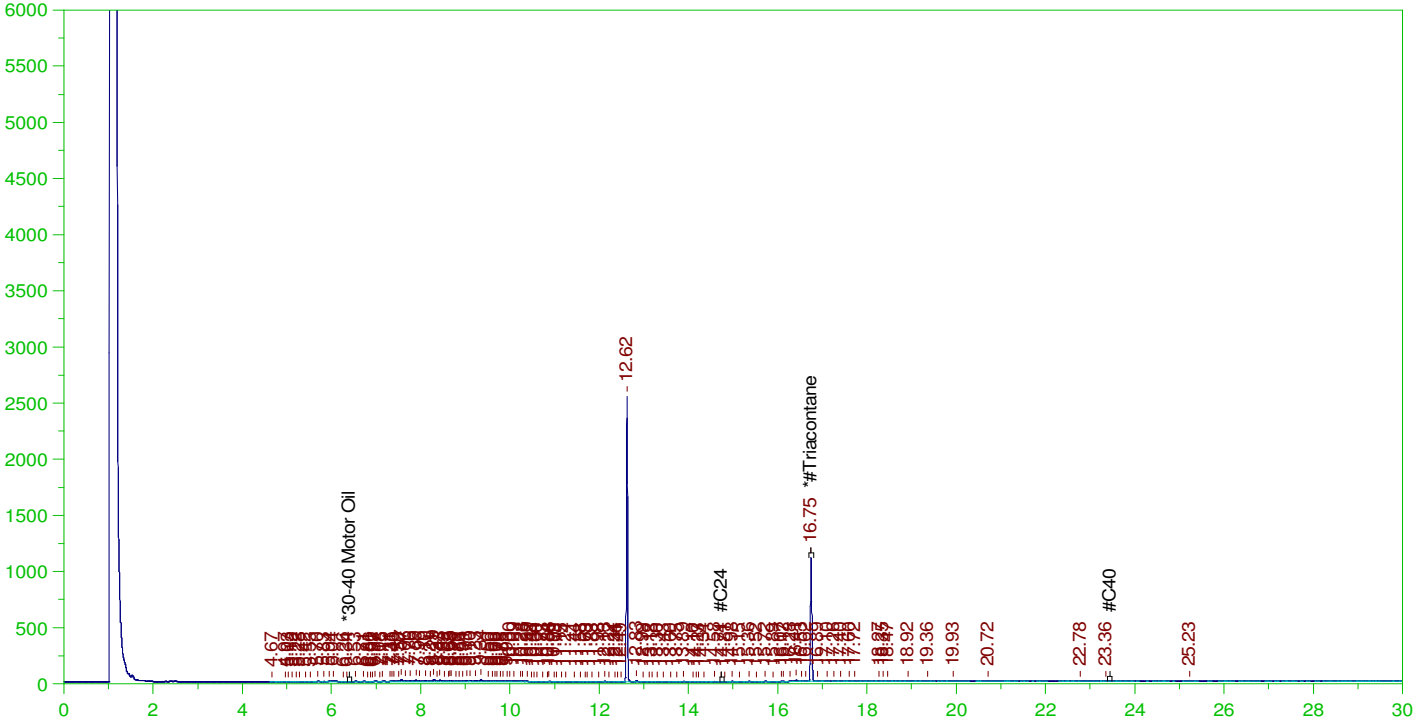
DRO Area:1377441 DRO Amount: 4.466128E-02
 TEH Area:1619001 TEH Amount: 0.0524935

ERH2278 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0027.RAW

B21122168-006D ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-006D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0027.RAW
 Date & Time Acquired: 1/7/2022 12:16:59 PM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.748	.476	.091	19.15

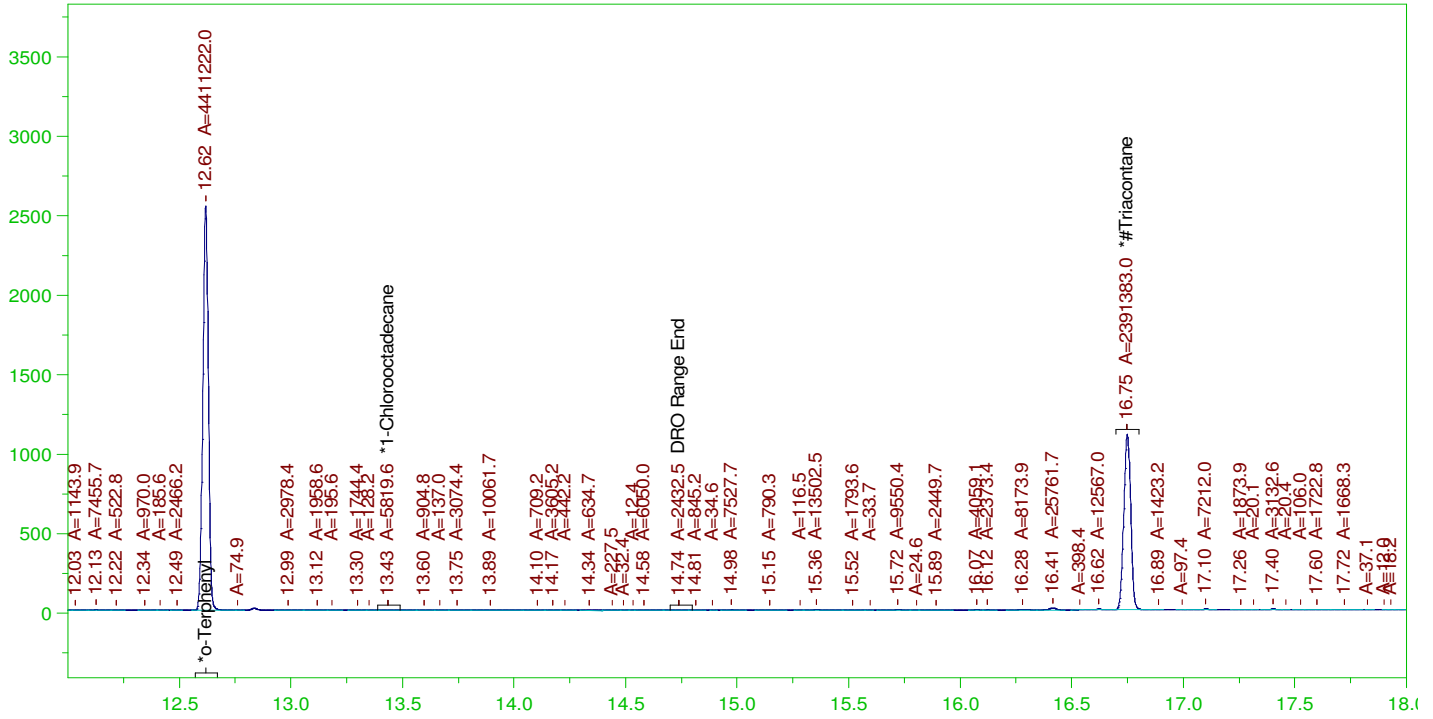
RRO Area:147915.1 RRO AMOUNT: 5.742928E-03

ERH2278 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0027.RAW

B21122168-006D ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-006D ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0027.RAW
 Date & Time Acquired: 1/7/2022 12:16:59 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.19	.126	66.2	-
*1-Chlorooctadecane	13.434	.19	.	.09	-
*#Triacontane	16.748	.19	.091	47.88	-

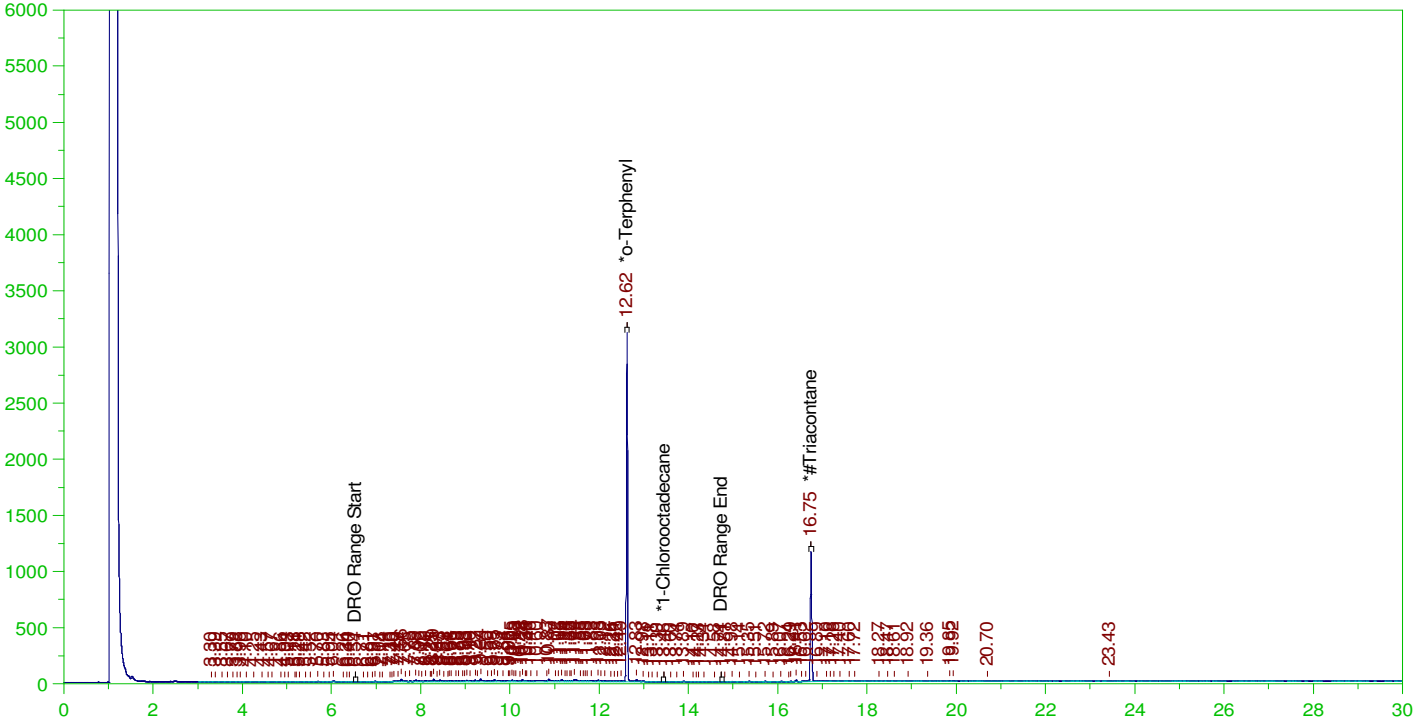
DRO Area:1414487 DRO Amount: 4.586246E-02
 TEH Area:1820297 TEH Amount: 5.902017E-02

ERH2279 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0028.RAW

B21122168-007B ;0106HP4, \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-007B ;0106HP4, \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0028.RAW
 Date & Time Acquired: 1/7/2022 1:01:52 PM
 Method File: G:\Org\HP4\methods\DR_8015-010628-OJ-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.19	.156	81.75	-
*1-Chlorooctadecane	13.457	.19	.	.24	-
*#Triacontane	16.747	.19	.094	49.52	-

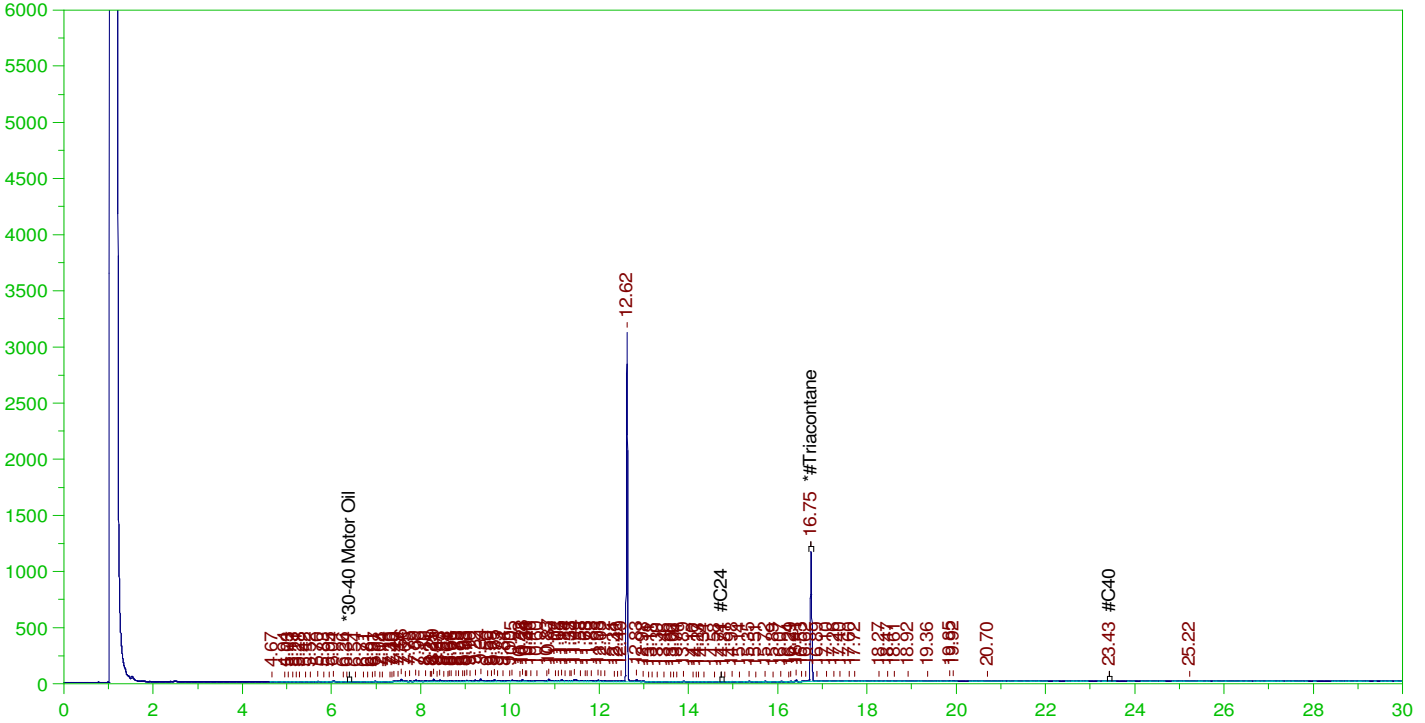
DRO Area:3475985 DRO Amount: 0.1127032
 TEH Area:3885431 TEH Amount: 0.1259788

ERH2279 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0028.RAW

B21122168-007B ;0106HP4 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21122168-007B ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0028.RAW
 Date & Time Acquired: 1/7/2022 1:01:52 PM
 Method File: G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007ACA-SAMPLE.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 14.7 to 23.49

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.747	.476	.094	19.73

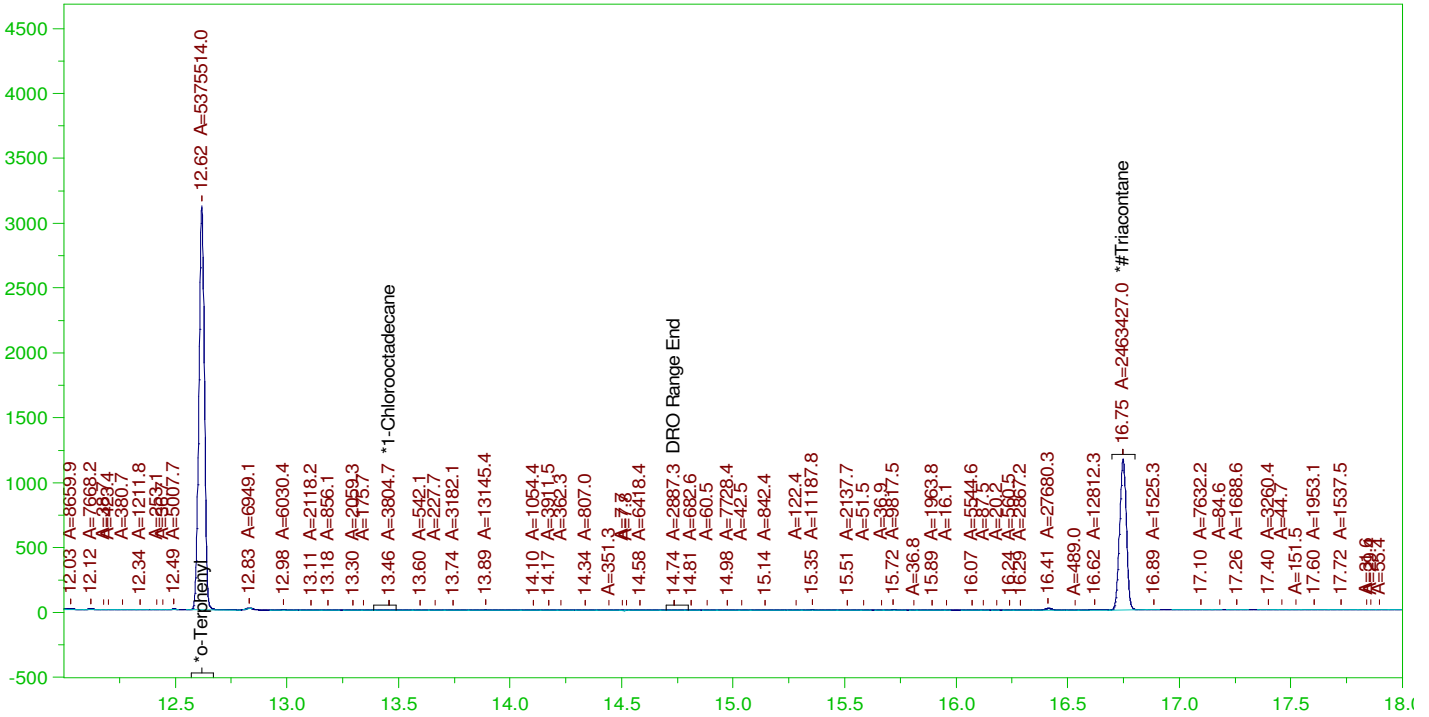
RRO Area:139797.8 RRO AMOUNT: 5.427766E-03

ERH2279 (RHMW01R)

Batch ID: 162648

G:\org\HP4\DAT\HP4010622_b\0106HP4.0028.RAW

B21122168-007B ;0106HP4 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-007B ;0106HP4 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0028.RAW
 Date & Time Acquired: 1/7/2022 1:01:52 PM
 Method File: G:\Org\HP4\methods\DS_8015-T-OJ-L#.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OJ-C24-TRI.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

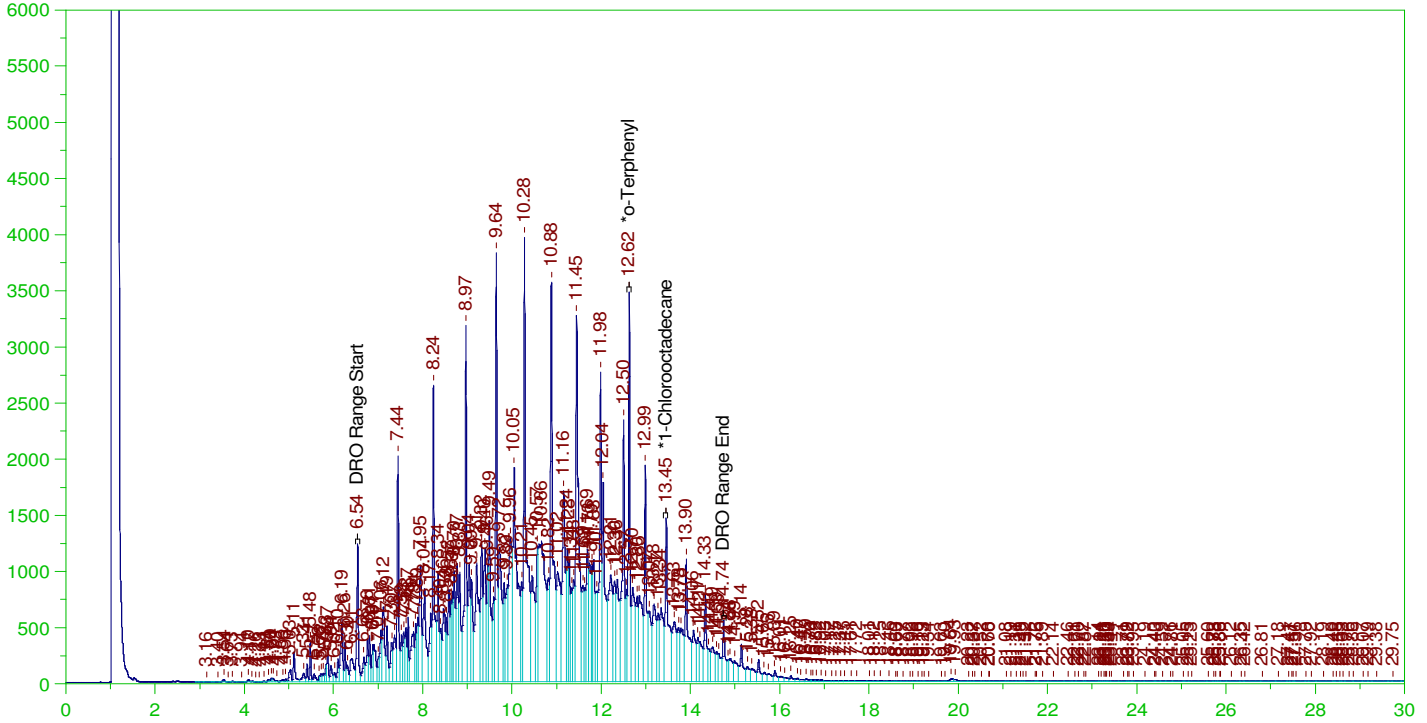
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.618	.19	.154	80.67	-
*1-Chlorooctadecane	13.457	.19	.	.06	-
*#Triacontane	16.747	.19	.094	49.32	-

DRO Area:1196757 DRO Amount: 3.880292E-02
 TEH Area:1387549 TEH Amount: 4.498903E-02

Batch ID: 162648

B21122168-001DMS ;0106HP4 , SGT

G:\org\HP4\DAT\HP4010622_b\0106HP4.0029.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001DMS ;0106HP4 , SGT
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0029.RAW
 Date & Time Acquired: 1/7/2022 1:46:33 PM
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 Sample Weight: 1030 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

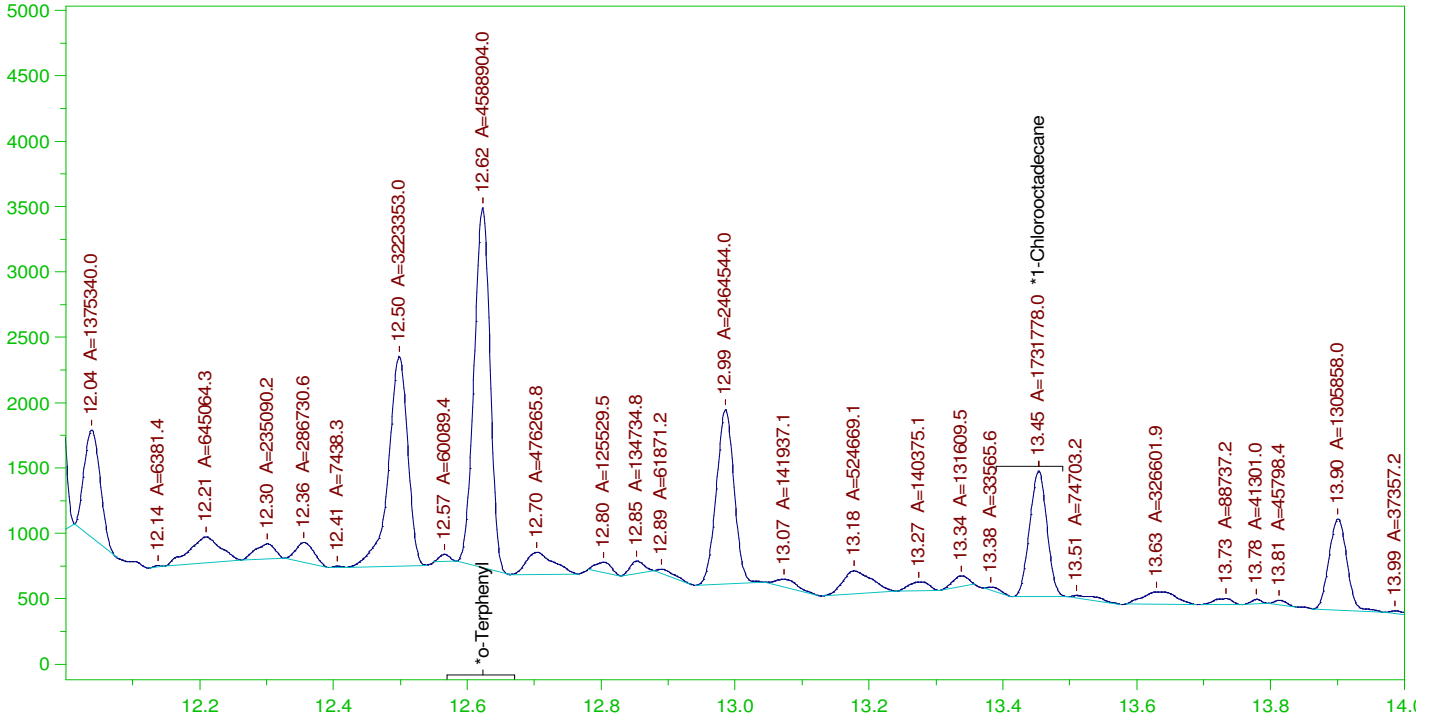
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.623	.194	.234	120.53	-
*1-Chlorooctadecane	13.453	.194	.19	98.02	-

DRO Area: 3.632761E+08 DRO Amount: 12.00735
 TEH Area: 3.858411E+08 TEH Amount: 12.75319

Batch ID: 162648

B21122168-001DMS ;0106HP4 , SGT

G:\org\HP4\DAT\HP4010622_b\0106HP4.0029.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122168-001DMS ;0106HP4 , SGT
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 Sample Weight: 1030 Dilution: 1 S.A.: 1

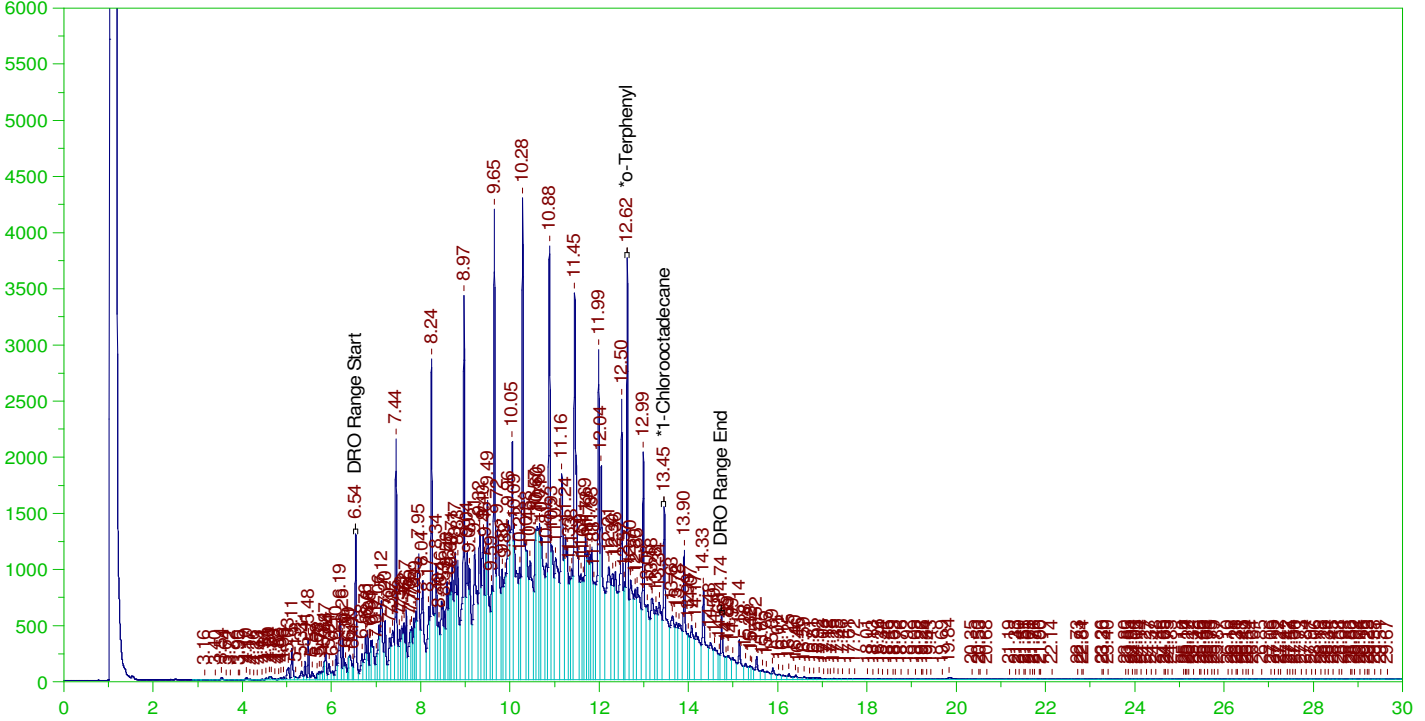
Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.623	.194	.134	68.86
*1-Chlorooctadecane	13.453	.194	.05	25.99

DRO Area:1.441423E+08 DRO Amount: 4.76433
 TEH Area:1.540749E+08 TEH Amount: 5.092633

Batch ID: 162648
B21122168-001DMSD ;0106HP4 , SGT

G:\org\HP4\DAT\HP4010622_b\0106HP4.0030.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

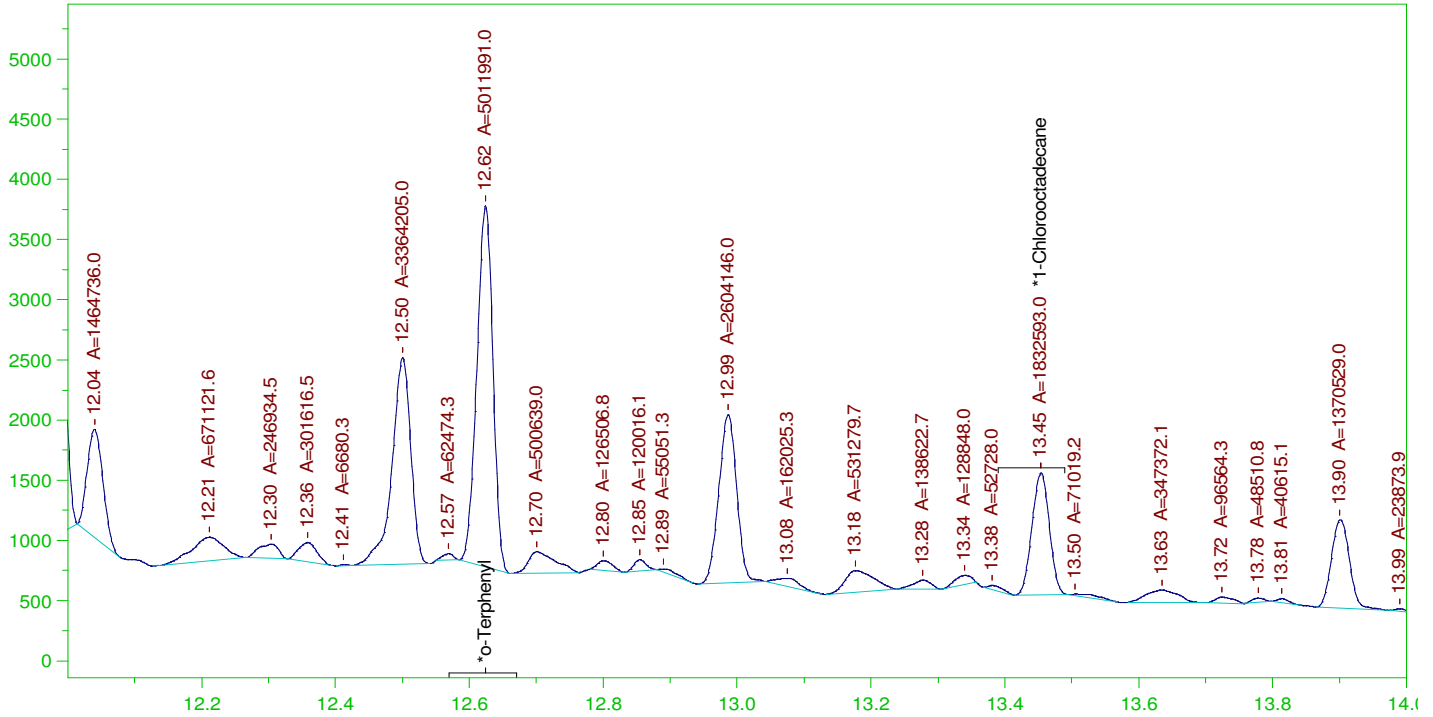
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 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.624	.192	.247	128.44 -
*1-Chlorooctadecane	13.454	.192	.202	104.92 -

DRO Area: 3.933835E+08 DRO Amount: 12.87747
 TEH Area: 4.167325E+08 TEH Amount: 13.6418

Batch ID: 162648
G:\org\HP4\DAT\HP4010622_b\0106HP4.0030.RAW B21122168-001DMSD ;0106HP4 , SGT



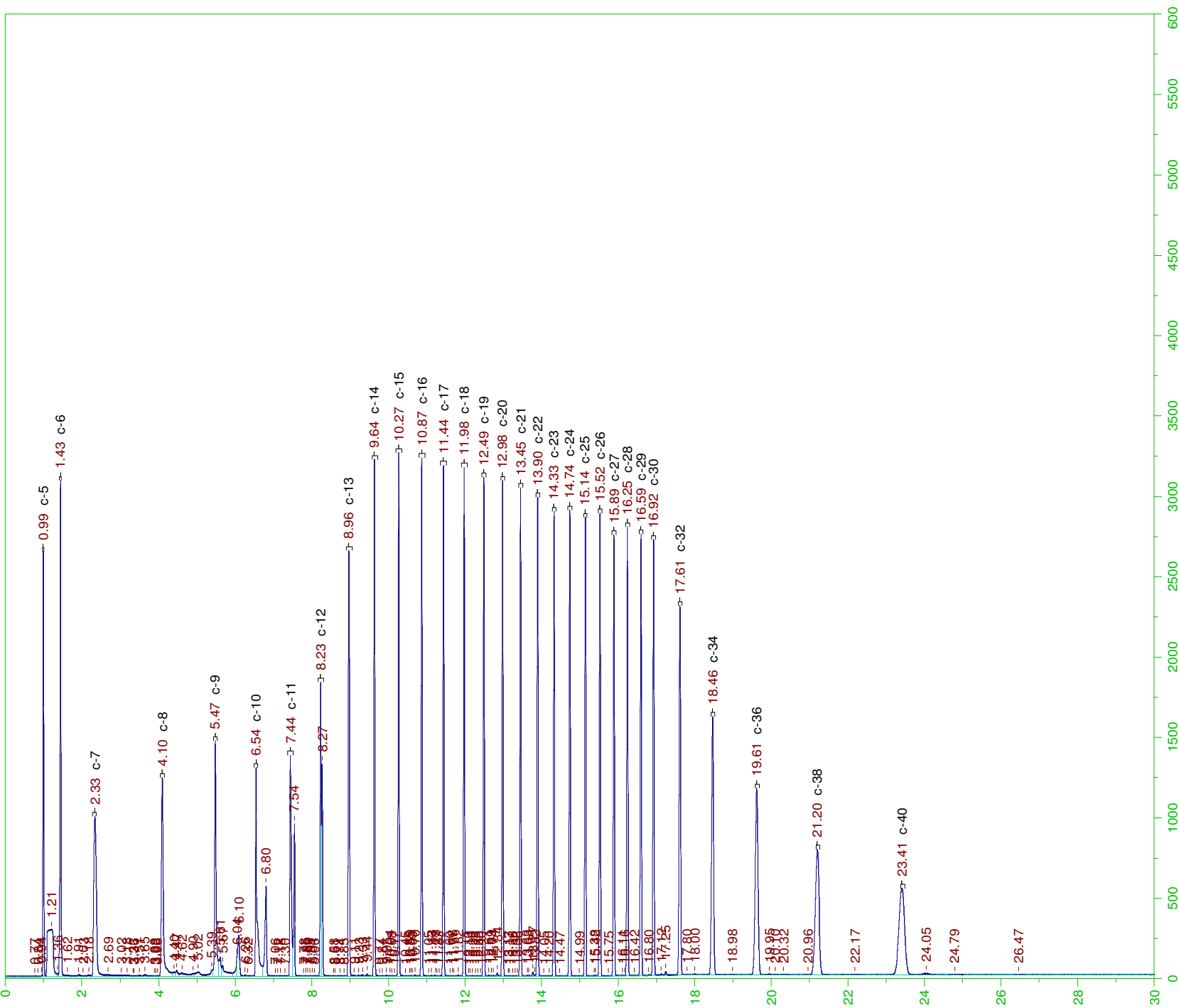
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

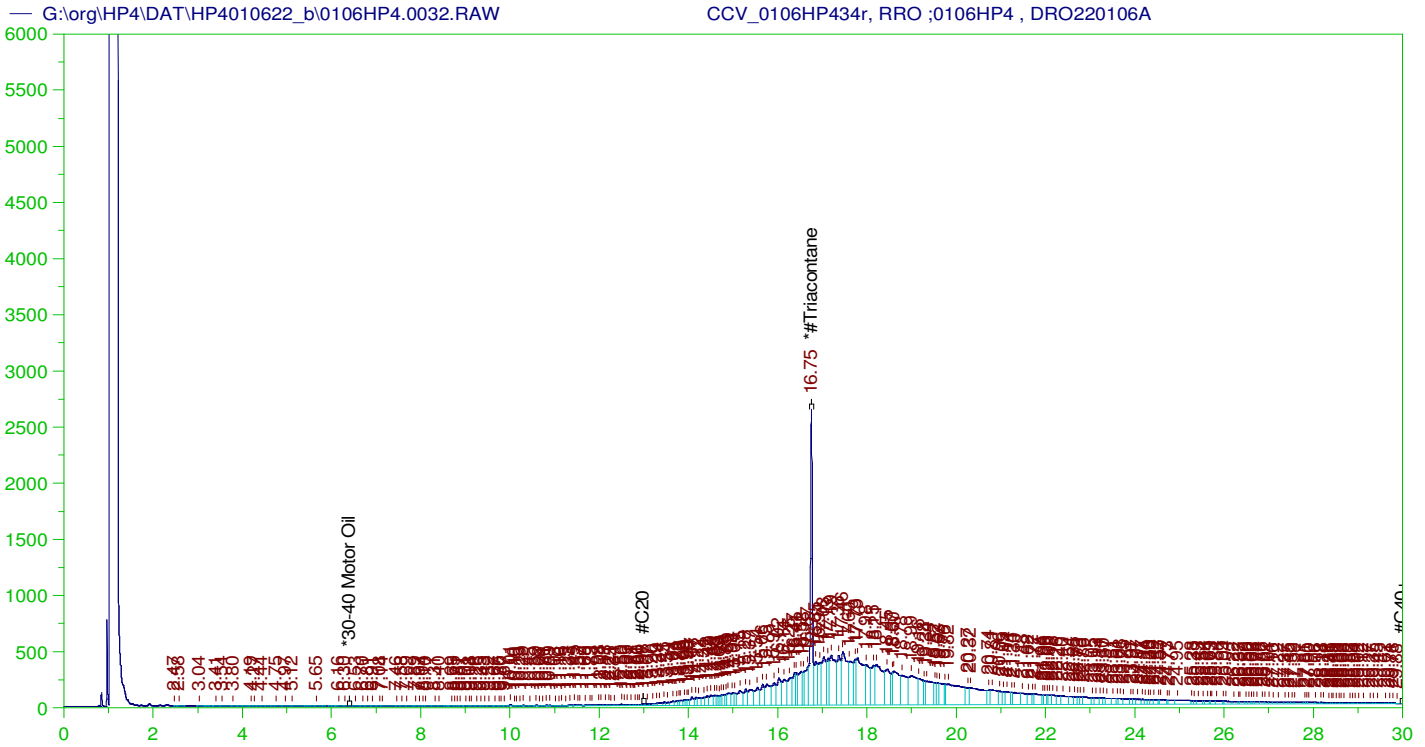
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.624	.192	.145	75.21	-
*1-Chlorooctadecane	13.454	.192	.053	27.5	-

DRO Area: 1.585548E+08 DRO Amount: 5.190313
 TEH Area: 1.688324E+08 TEH Amount: 5.526754





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP434r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0032.RAW
 Date & Time Acquired: 1/7/2022 4:01:11 PM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.755	500.	308.982	61.8	-

RRO TEH (Oil Range) Area:1.109706E+08 RRO TEH (Oil Range) AMOUNT: 4523.952

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0032.RAW

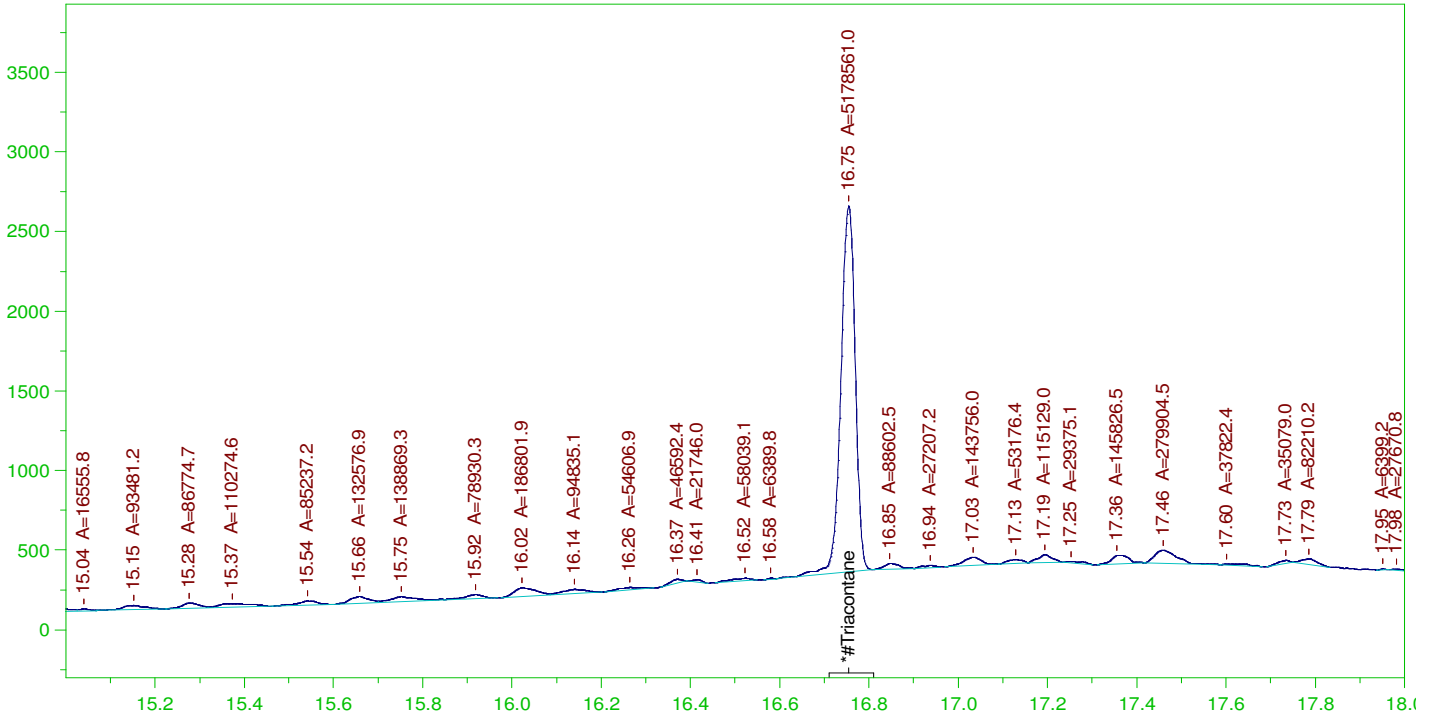
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.	75-125	

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.755	200.	308.982	154.49	75-125

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G:\org\HP4\DAT\HP4010622_b\0106HP4.0032.RAW

CCV_0106HP434r, RRO ;0106HP4 , DRO220106A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP434r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0032.RAW
 Date & Time Acquired: 1/7/2022 4:01:11 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.755	500.	207.36	41.47

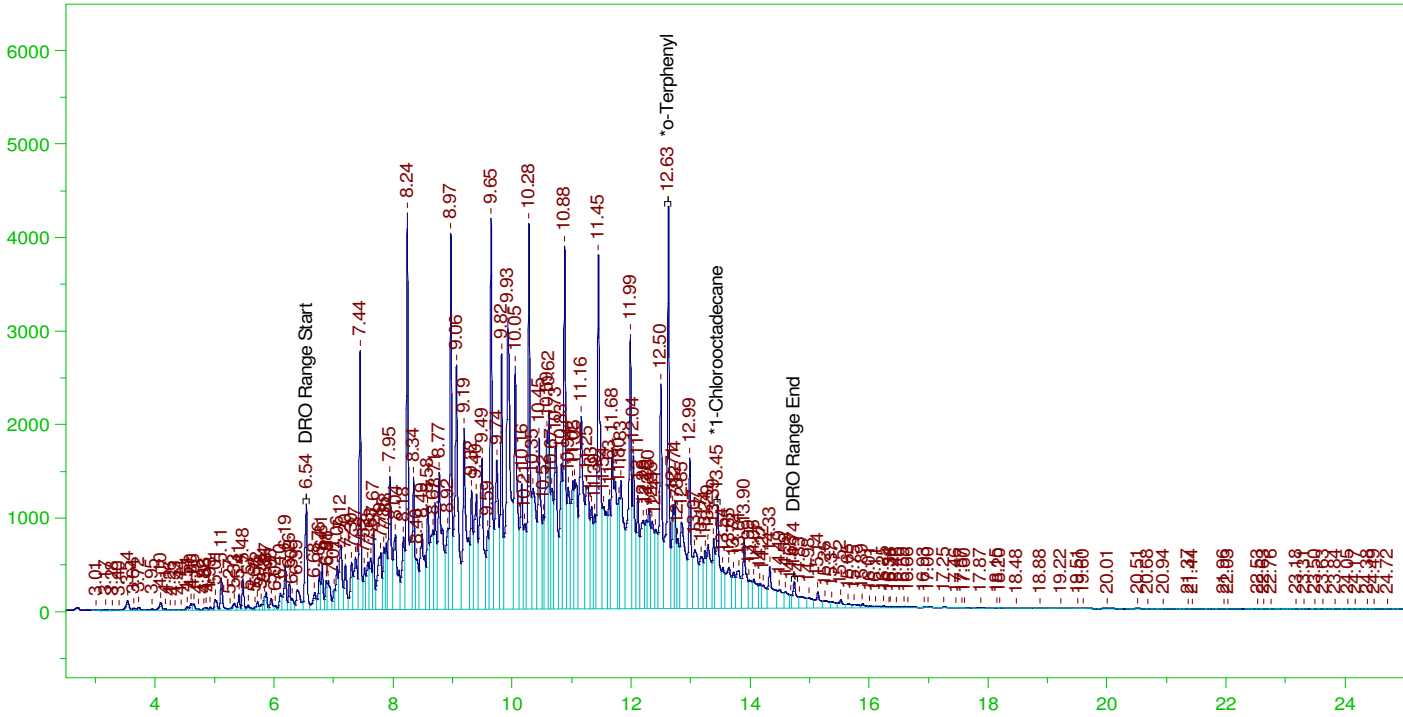
RRO Area:4222053 RRO AMOUNT: 172.121

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.755	200.	207.36	103.68	75-125

G:\org\HP4\DAT\HP4010622_b\0106HP4.0033.RAW

CCV_0106HP435r, DRO ;0106HP4 , DRO220105B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP435r, DRO ;0106HP4 , DRO220105B
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0033.RAW
 Date & Time Acquired: 1/7/2022 4:45:57 PM
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.627	200.	341.278	170.64
*1-Chlorooctadecane	13.452	200.	129.526	64.76

DRO Area: 4.187167E+08 DRO Amount: 14255.02
 TEH Area: 4.344426E+08 TEH Amount: 14790.4

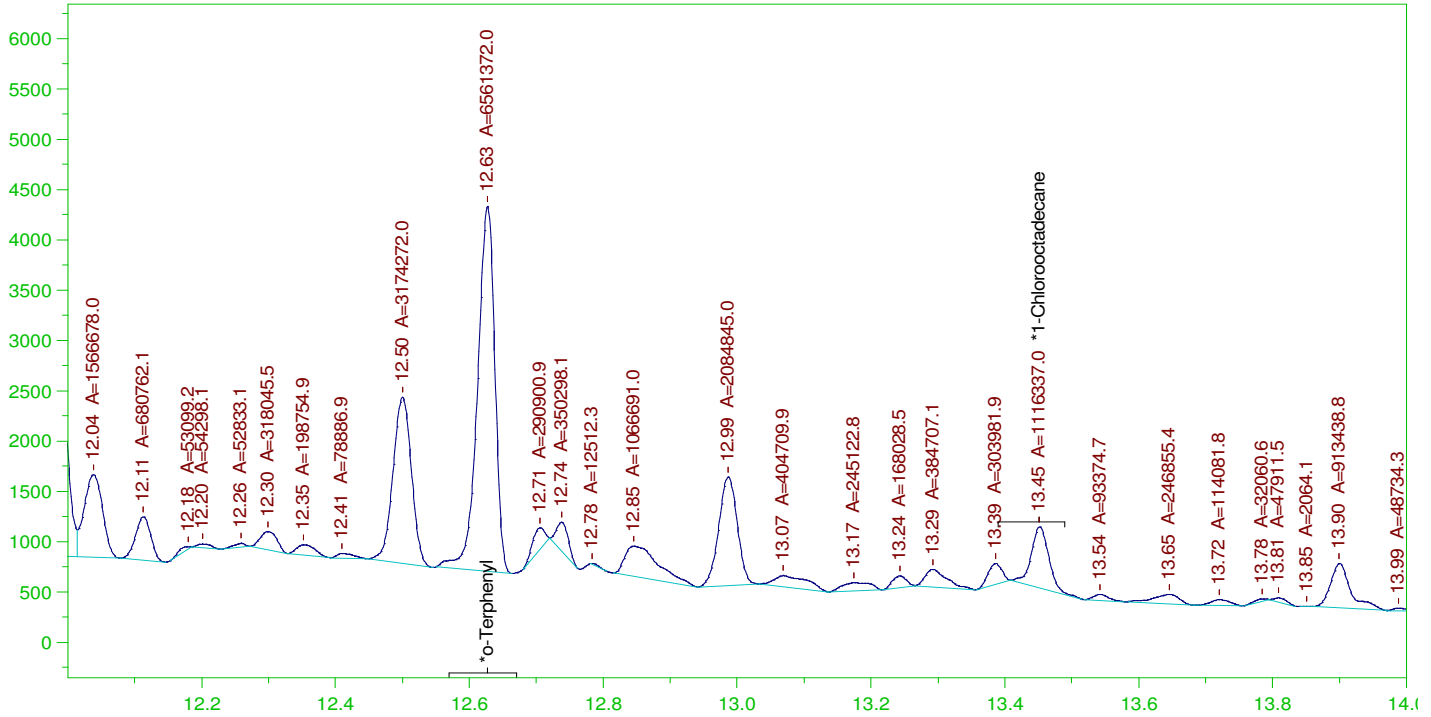
CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0033.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	14790.4	98.6	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.627	200.	341.278	170.64	85-115
*1-Chlorooctadecane	13.452	200.	129.526	64.76	85-115

G:\org\HP4\DAT\HP4010622_b\0106HP4.0033.RAW

CCV_0106HP435r, DRO ;0106HP4 , DRO220105B



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0106HP435r, DRO ;0106HP4 , DRO220105B
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0033.RAW
 Date & Time Acquired: 1/7/2022 4:45:57 PM
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO2111020J-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28
 Rt range for Diesel Range Organics: 6.49 to 14.8

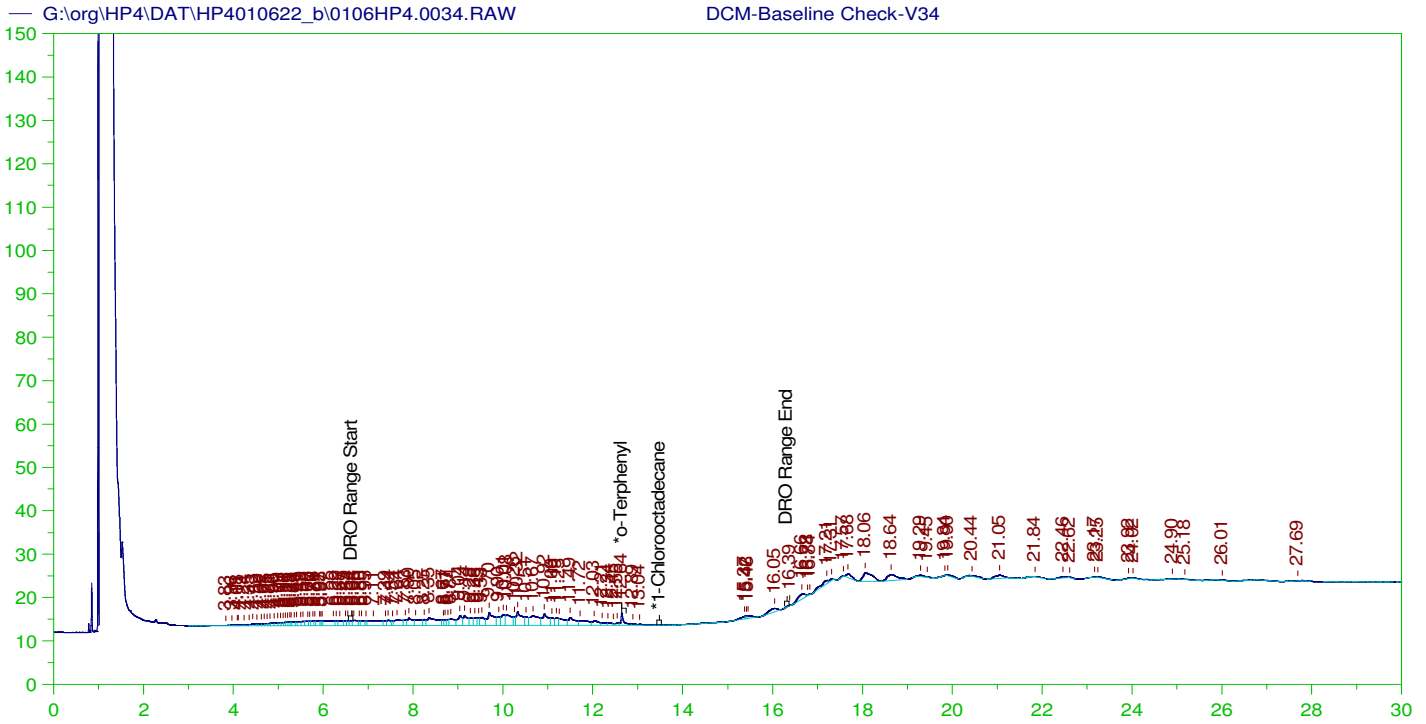
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.627	200.	196.922	98.46
*1-Chlorooctadecane	13.452	200.	33.504	16.75

DRO Area: 1.840263E+08 DRO Amount: 6265.092
 TEH Area: 1.938164E+08 TEH Amount: 6598.394

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0033.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
TOTAL DRO	15000.	6598.39	43.99	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*o-Terphenyl	12.627	200.	196.922	98.46	85-115
*1-Chlorooctadecane	13.452	200.	33.504	16.75	85-115



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

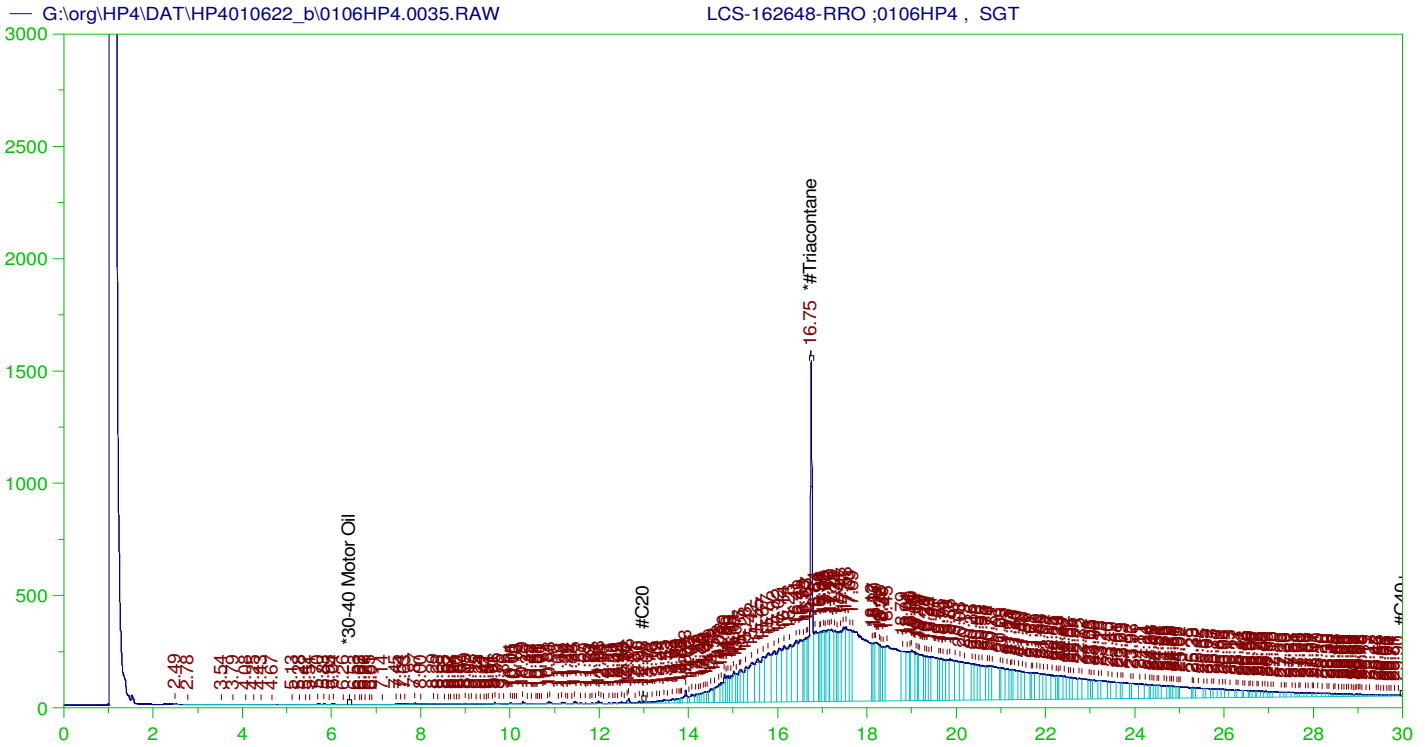
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.643	200.	.381	.19
*1-Chlorooctadecane	29.93	200.	.	.

DRO Area: 546209.5 DRO Amount: 18.59546
 TEH Area: 799537.7 TEH Amount: 27.2199



RESIDUAL RANGE ORGANICS CHROMATOGRAM

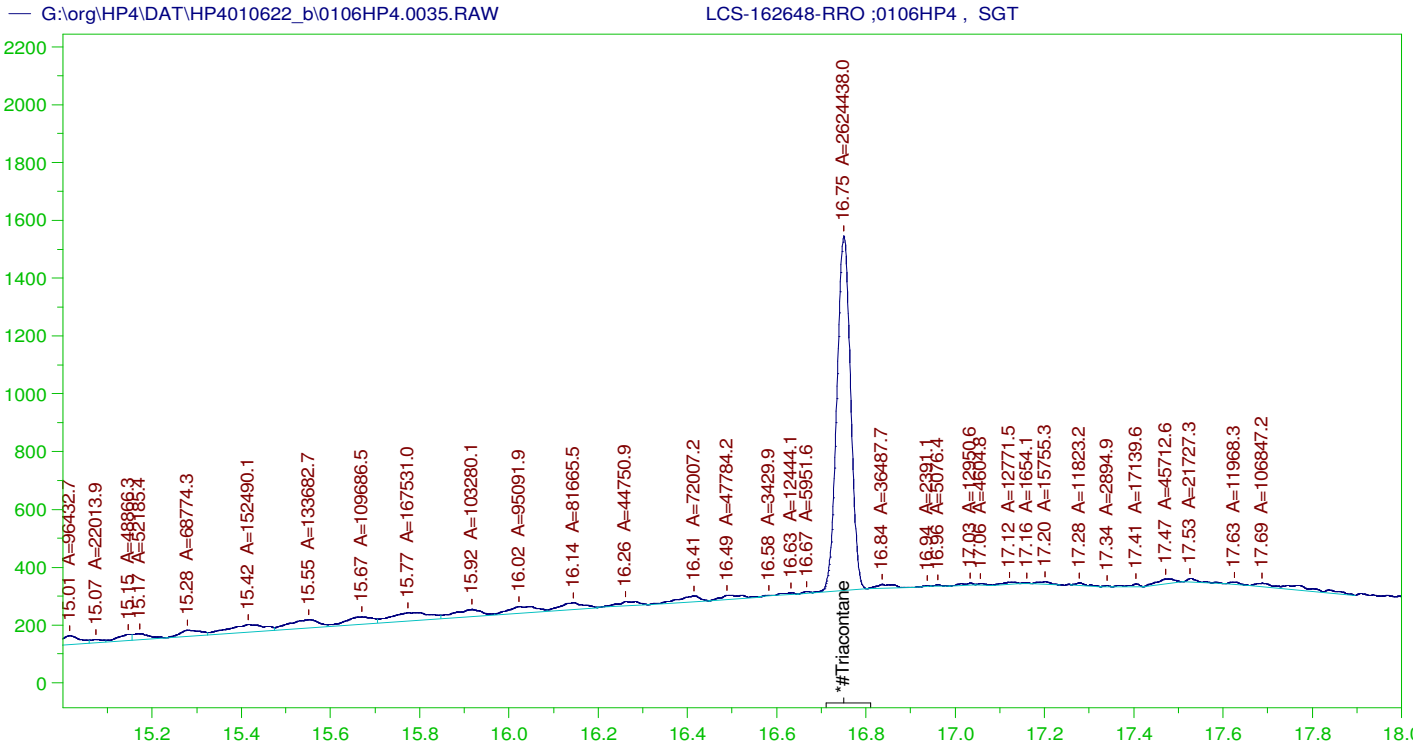
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 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.75	.5	.19	38.03	-

RRO TEH (Oil Range) Area:1.097602E+08 RRO TEH (Oil Range) AMOUNT: 4.474609

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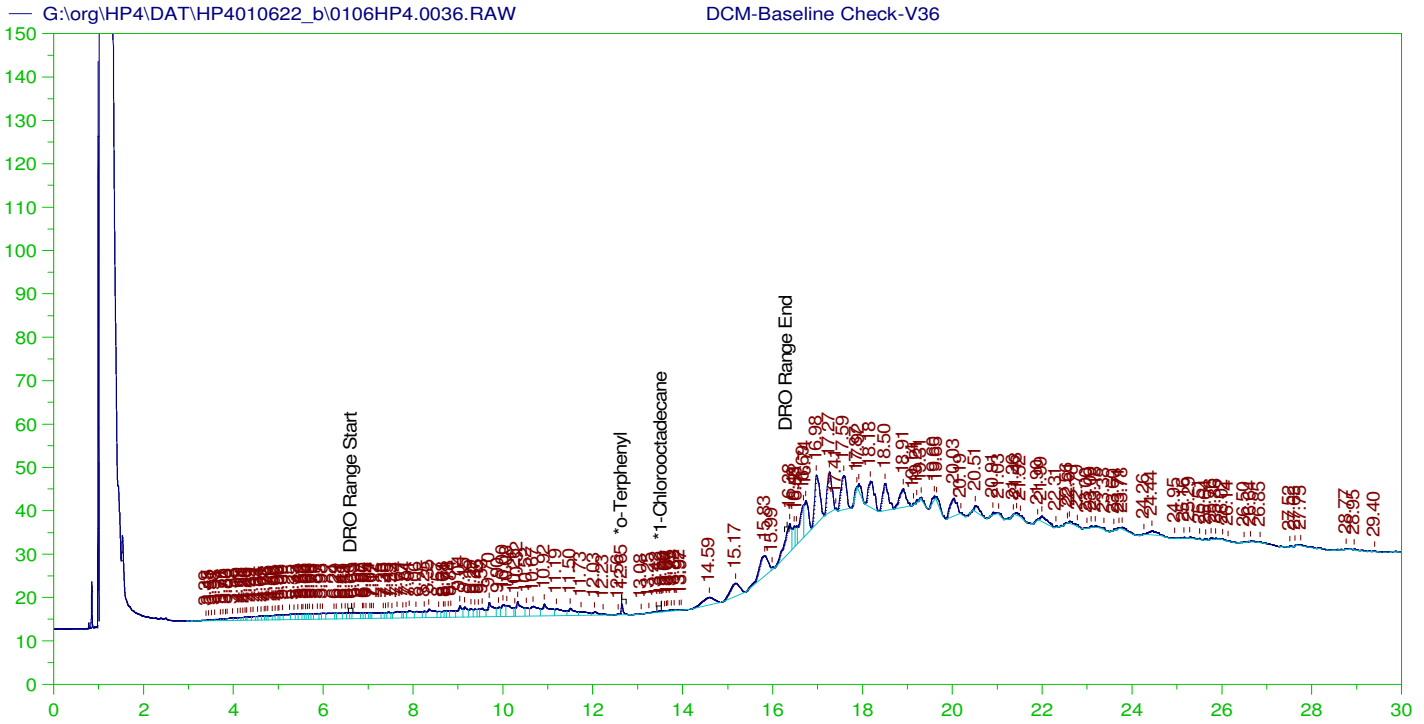
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-162648-RRO ;0106HP4 , SGT
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 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.75	.5	.105	21.02

RRO Area:3103414 RRO AMOUNT: 0.1265173



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

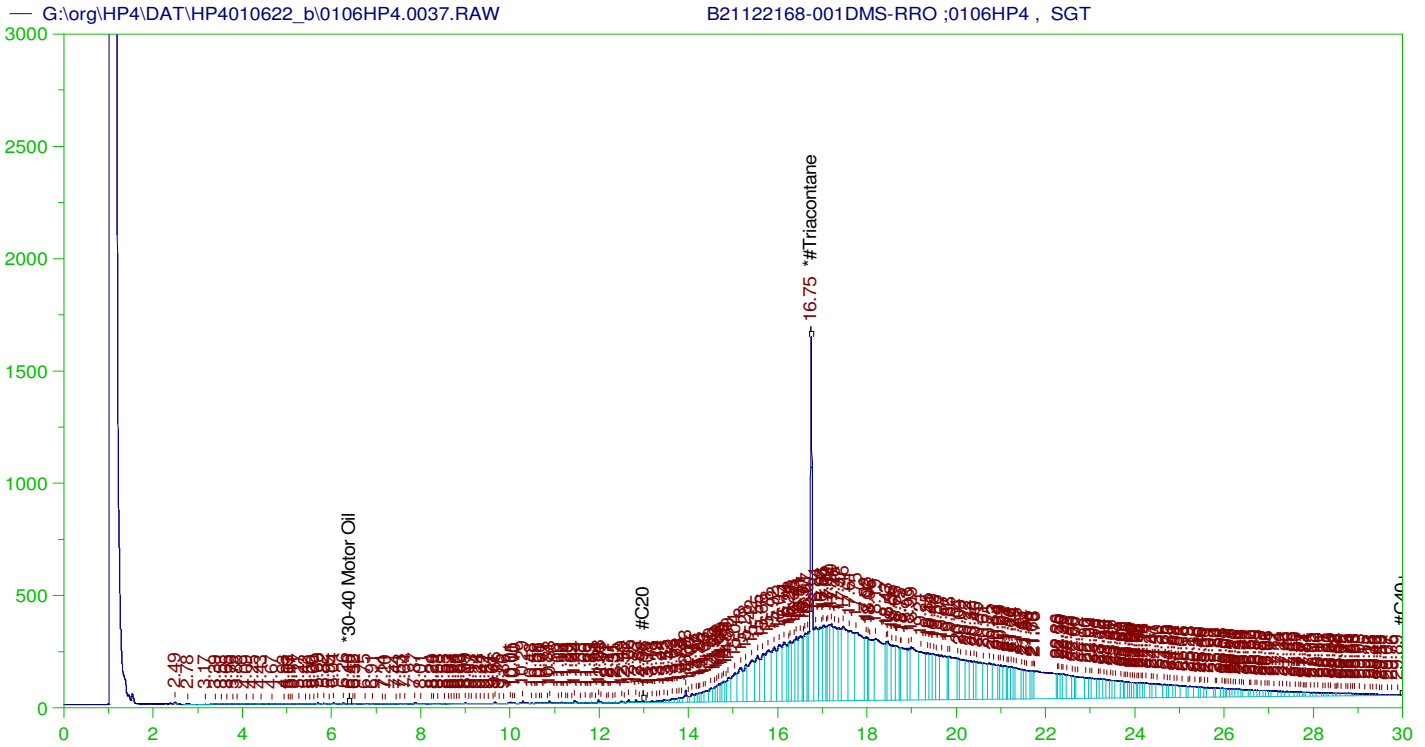
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.645	200.	.241	.12	-
*1-Chlorooctadecane	13.524	200.	.048	.02	-

DRO Area:677147.3 DRO Amount: 23.05317
 TEH Area:1632627 TEH Amount: 55.58205



RESIDUAL RANGE ORGANICS CHROMATOGRAM

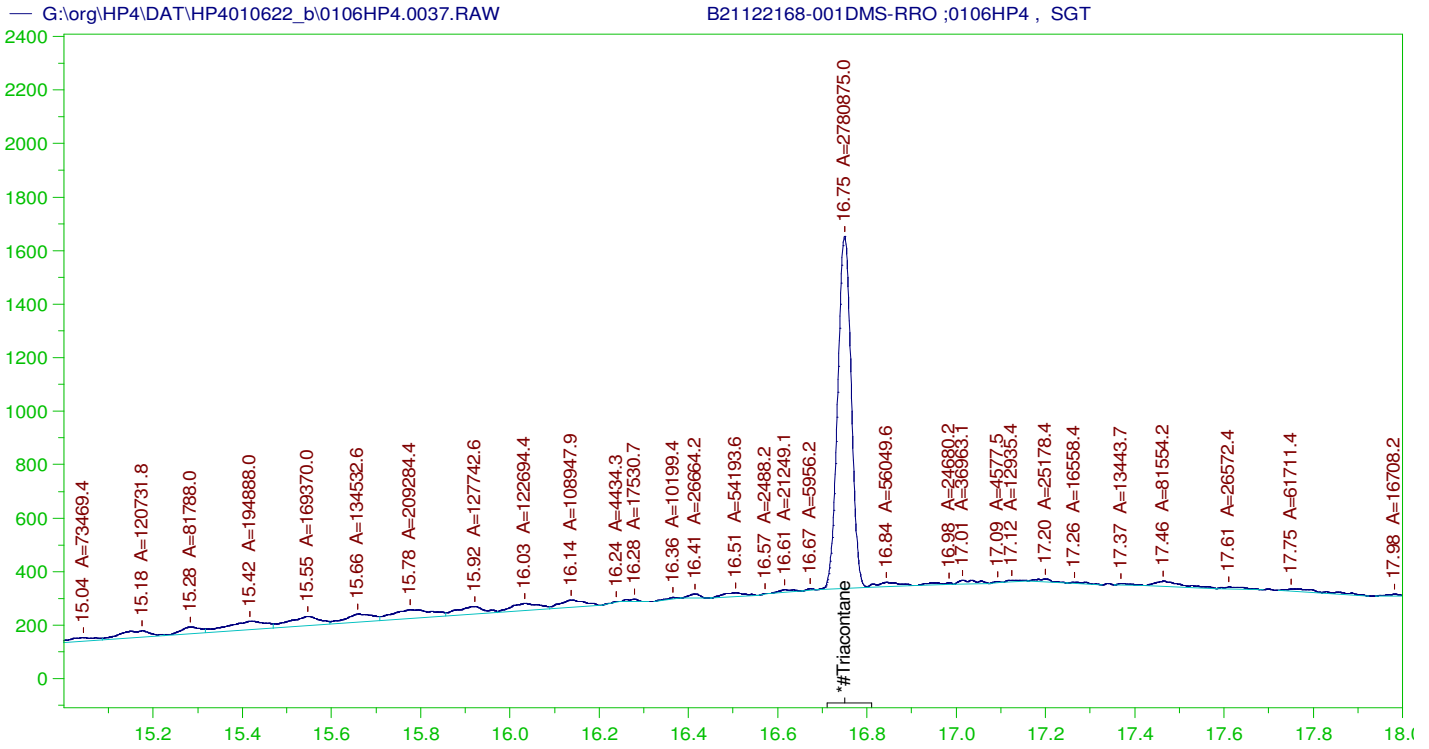
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 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.749	.49	.19	38.86	-

RRO TEH (Oil Range) Area:1.150775E+08 RRO TEH (Oil Range) AMOUNT: 4.599393

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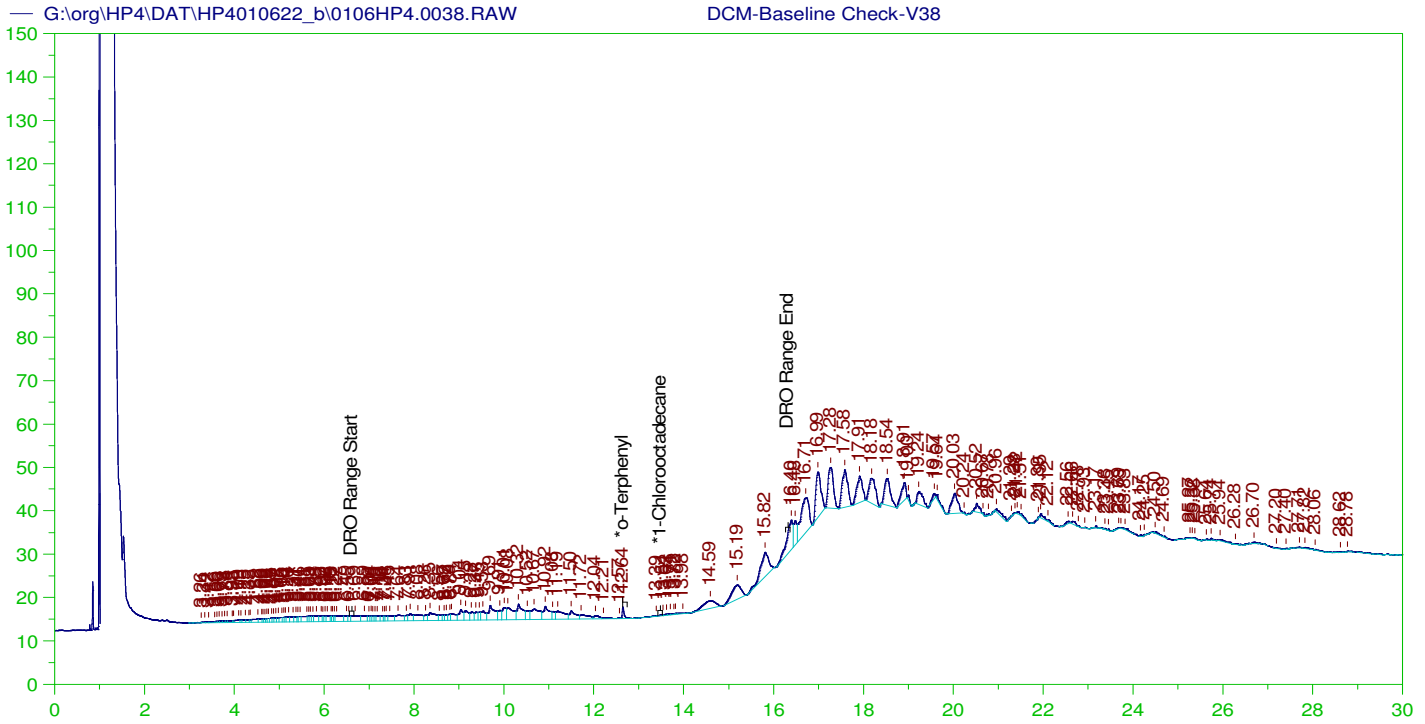
RESIDUAL RANGE ORGANICS CHROMATOGRAM

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 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.749	.49	.109	22.27

RRO Area:3100048 RRO AMOUNT: 0.123902



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

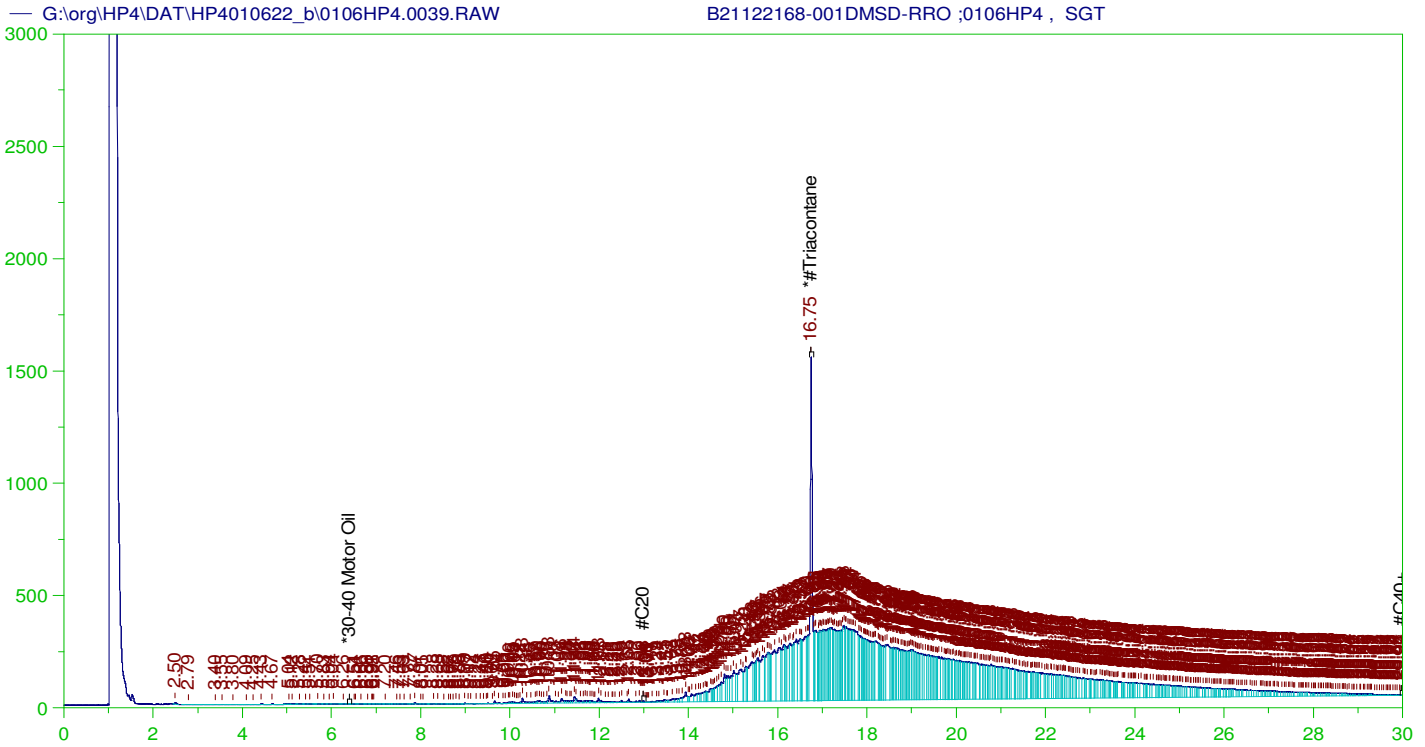
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 Calibration File: G:\Org\HP4\Cals\SW8015C_DRO211102OH.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29373.28

Rt range for Diesel Range Organics: 6.56 to 16.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	12.645	200.	.255	.13
*1-Chlorooctadecane	29.981	200.	.	.

DRO Area:689583.4 DRO Amount: 23.47655
 TEH Area:1682843 TEH Amount: 57.29165



RESIDUAL RANGE ORGANICS CHROMATOGRAM

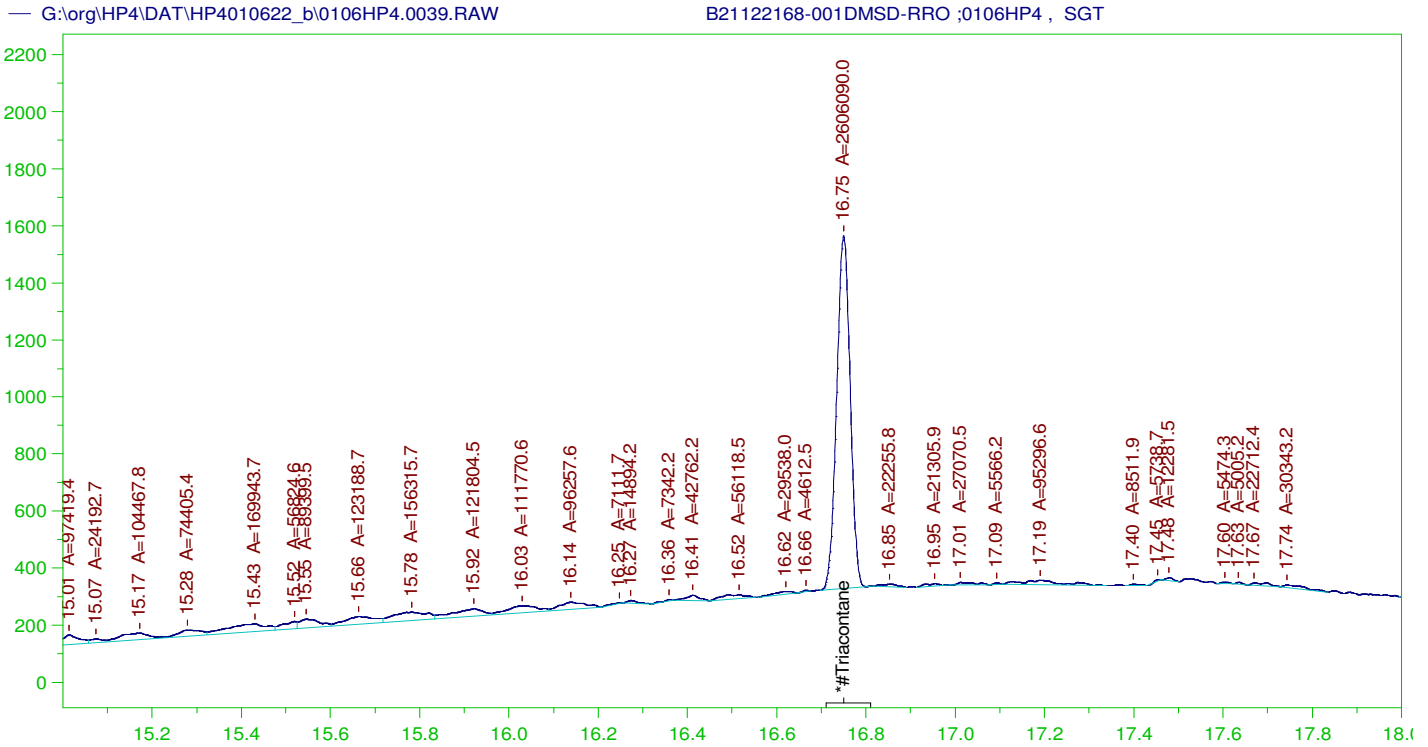
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 Method File: G:\Org\HP4\Methods\D3_ORO-010639-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.75	.476	.169	35.48	-

RRO TEH (Oil Range) Area:1.107334E+08 RRO TEH (Oil Range) AMOUNT: 4.299319

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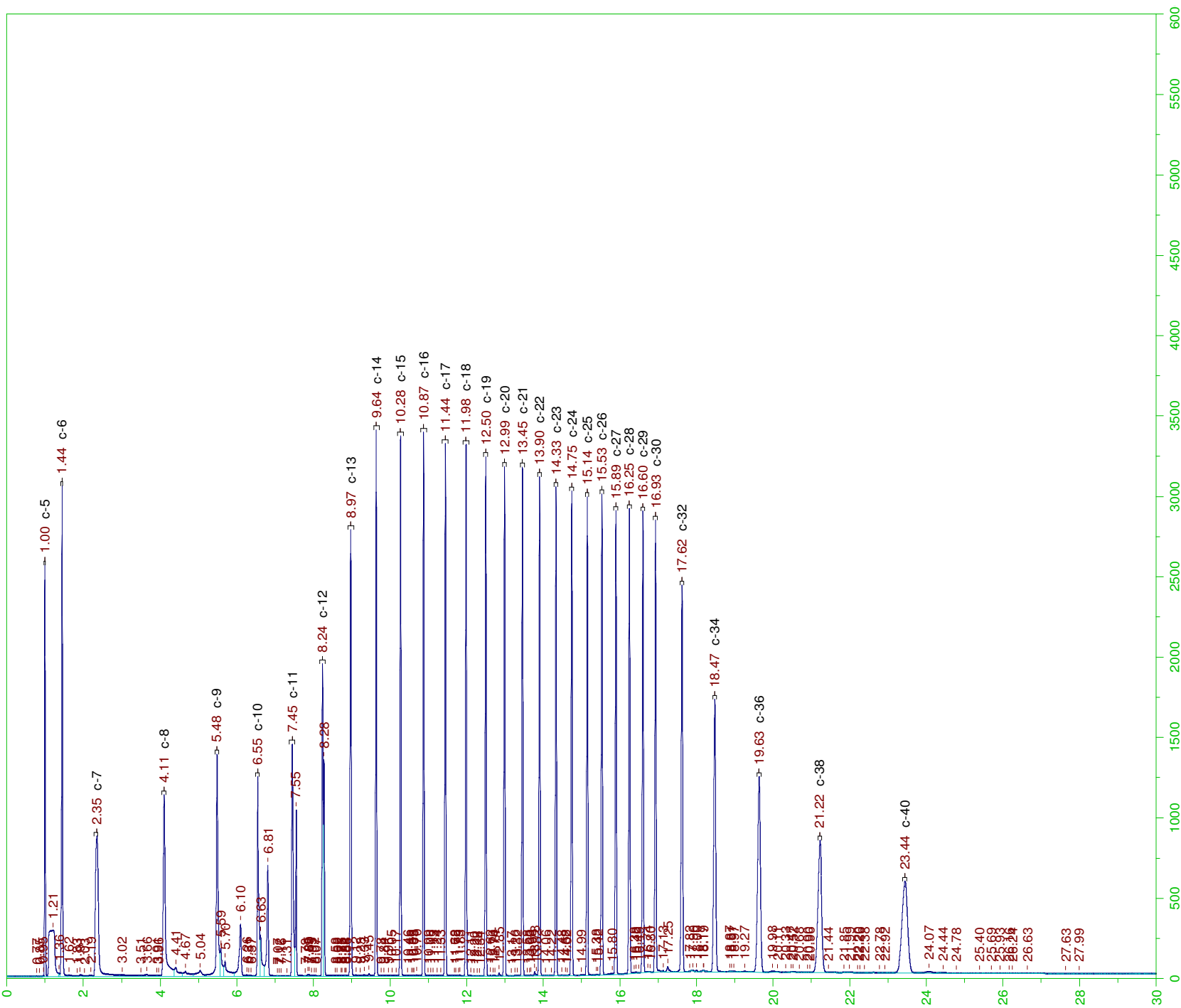
RESIDUAL RANGE ORGANICS CHROMATOGRAM

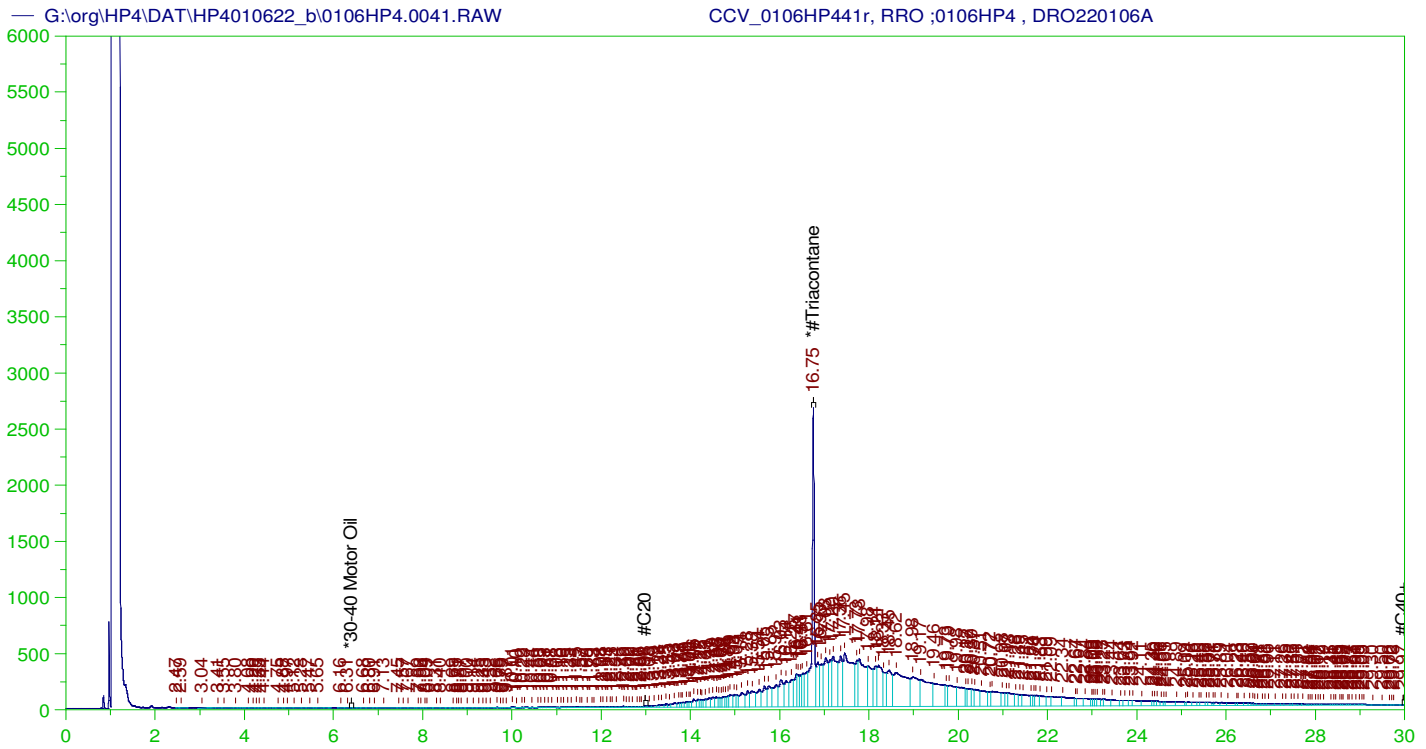
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 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.75	.476	.099	20.87

RRO Area:3204162 RRO AMOUNT: 0.1244043





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP441r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0041.RAW
 Date & Time Acquired: 1/7/2022 10:46:23 PM
 Method File: G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH (Oil Range) Organics Calculations: 24529.56
 Rt range for ~~Residual~~ TEH (Oil Range) Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.753	500.	354.372	70.87	-

RRO TEH (Oil Range) Area:1.115587E+08 RRO TEH (Oil Range) AMOUNT: 4547.931

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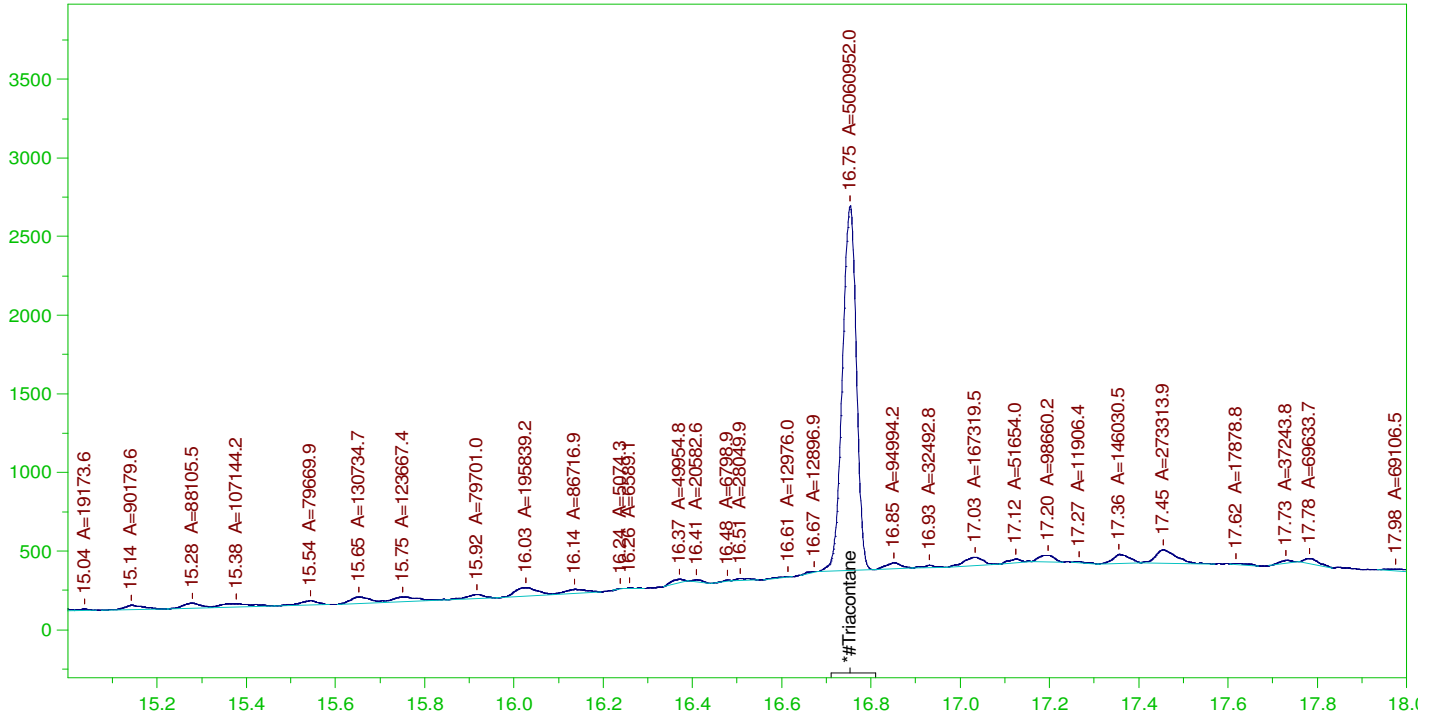
COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*30-40 Motor Oil	5000.	.	75-125	

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.753	200.	354.372	177.19	75-125

AMN 01/26/2022

G:\org\HP4\DAT\HP4010622_b\0106HP4.0041.RAW

CCV_0106HP441r, RRO ;0106HP4 , DRO220106A



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0106HP441r, RRO ;0106HP4 , DRO220106A
 Raw File: G:\org\HP4\DAT\HP4010622_b\0106HP4.0041.RAW
 Date & Time Acquired: 1/7/2022 10:46:23 PM
 Method File: G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met
 Calibration File: G:\Org\HP4\Cals\SW8015C_ORO211007AC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 24529.56
 Rt range for Residual Range Organics: 12.95 to 30.05

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.753	500.	202.65	40.53	-

RRO Area:4227363 RRO AMOUNT: 172.3375

CONTINUING CALIBRATION REPORT: G:\org\HP4\DAT\HP4010622_b\0106HP4.0041.RAW

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

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
*#Triacontane	16.753	200.	202.65	101.33	75-125

G:\org\HP4\DAT\HP4010522_b\0105HP4.20r	B22010002-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\methods\D3_8015-010513-OI-L%.met G:\Org\HP4\Methods\D3_ORO-010513-AC-L%.met G:\Org\HP4\methods\DS_8015-T-OI-L%.met	980	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline with a Set Baseline now at 28.32 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.72 minutes, Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.21r	B22010002-002D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\methods\DR_8015-C24T-OI-L%.met G:\Org\HP4\Methods\DR_ORO-S-AC-L%.met G:\Org\HP4\methods\DS_8015-T-OI-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 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.72 minutes, Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.22r	B22010002-003B ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\methods\DS_8015-T-OI-L%.met	1040	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.72 minutes, Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.23r	DCM-Baseline Check-V23	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.24r	B21122168-001D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\methods\DR_8015-010524-OI-L%.met G:\Org\HP4\Methods\D3_ORO-010524-AC-L%.met G:\Org\HP4\methods\DS_8015-T-OI-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 with a Set Baseline now at 27.26 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.72 minutes, Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.25r	B21122168-001DMS ;0105HP4 ,	G:\Org\HP4\methods\D3_8015-C24-OI-L%.met G:\Org\HP4\methods\DS_8015-C24-OI-L%.met	1030	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.55 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.26r	B21122168-001DMSD ;0105HP4 ,	G:\Org\HP4\methods\D3_8015-C24-OI-L%.met G:\Org\HP4\methods\DS_8015-C24-OI-L%.met	1040	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.55 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.27r	DCM-Baseline Check-V27	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.28r	DCM-Baseline Check-V28	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.29r	B21122168-006D ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\methods\DS_8015-T-OI-L%.met	1050	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.72 minutes, Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.30r	B21122168-007B ;0105HP4 , \$HC-8015-DRO-W,	G:\Org\HP4\methods\D3_8015-C24T-OI-L%.met G:\Org\HP4\Methods\D3_ORO-S-AC-L%.met G:\Org\HP4\methods\DS_8015-T-OI-L%.met	1050	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.72 minutes, Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.31r	MARKER ;0105HP431r, DRO ;0105HP4 , DRO211220B	G:\org\HP4\Methods\CSC220105.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.32r	CCV ;0105HP432r, RRO ;0105HP4 , DRO220102A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valley on placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.33r	CCV ;0105HP433r, DRO ;0105HP4 , DRO211229A	G:\Org\HP4\methods\DC_8015-C24-OI-L%.met G:\Org\HP4\methods\DS_8015-C24-OI-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 17.1 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.55 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.34r	DCM-Baseline Check-V34	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.35r	LCS-162648-RRO ;0105HP4 ,	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-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 Valley on placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.36r	DCM-Baseline Check-V36	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.37r	B21122168-001DMSD-RRO ;0105HP4 ,	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1020	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 Valley on placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.38r	DCM-Baseline Check-V38	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.39r	B21122168-001DMSD-RRO ;0105HP4 ,	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1050	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 Valley on placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010522_b\0105HP4.40r	MARKER ;0105HP440r, DRO ;0105HP4 , DRO211220B	G:\org\HP4\Methods\CSC220102.met	1	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010522_b\0105HP4.41r	CCV ;0105HP441r, RRO ;0105HP4 , DRO220102A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valley on placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.01.26 11:46:58 -07:00

Write Sequence	Data File	Sample Name	Insert Entries(Have the first cell for entries selected)	Method	Weight	Dil Factor	Amt Inj	IS	Cal ID	Manual Integrations
G:\org\HP4\DATA\HP4010622_b\0106HP4.01r	DCM-Baseline Check-V01			G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0 No Integrations
G:\org\HP4\DATA\HP4010622_b\0106HP4.02r	DCM-Baseline Check-V02			G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0 No Integrations
G:\org\HP4\DATA\HP4010622_b\0106HP4.03r	MARKER_0106HP403r_DRO_0106HP4_DRO211220B			G:\org\HP4\Methods\CSC220106.met	1	1	1	1	1	0 No Integrations
G:\org\HP4\DATA\HP4010622_b\0106HP4.04r	CCV_0106HP404r_RRO_0106HP4_DRO220106A			G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	1	0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.05r	CCV_0106HP405r_DRO_0106HP4_DRO220105B			G:\Org\HP4\methods\DC_8015-C24-OJ-L%.met G:\Org\HP4\methods\DS_8015-C24-OJ-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 17.1 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.54 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.06r	DCM-Baseline Check-V06			G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0 No Integrations
G:\org\HP4\DATA\HP4010622_b\0106HP4.07r	LCS-162648_0106HP4_SGT			G:\Org\HP4\methods\D3_8015-C24-OJ-L%.met G:\Org\HP4\methods\DS_8015-C24-OJ-L%.met	1000	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.54 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.08r	MB-162648_0106HP4_SGT			G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-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 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.09r	B21122211-001D_0106HP4_SHC-8015-DRO-W_SGT			G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-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 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.10r	B21122190-001D_0106HP4_SHC-8015-DRO-W_SGT			G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-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 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.11r	B21122198-001D_0106HP4_SHC-8015-DRO-W_SGT			G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-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 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.12r	DCM-Baseline Check-V12			G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0 No Integrations
G:\org\HP4\DATA\HP4010622_b\0106HP4.13r	B21122204-001D_0106HP4_SHC-8015-DRO-W_SGT			G:\Org\HP4\methods\D3_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\D3_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-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. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.14r	B21122180-001D_0106HP4_SHC-8015-DRO-W_SGT			G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-L%.met	980	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24, C24-C40) and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.15r	B21122188-001D_0106HP4_SHC-8015-DRO-W_SGT			G:\Org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\Org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\Org\HP4\methods\DS_8015-T-OJ-L%.met	980	1	1	1	1	0 The integration of Diesel Range Organics (C10-C24, C24-C40) and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes. Set Baseline All Valley on 14.07 minutes and and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DATA\HP4010622_b\0106HP4.16r	DCM-Baseline Check-V16			G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	1	0 No Integrations

G:\org\HP4\DAT\HP4010622_b\0106HP4.17r	B21121965-001D_0106HP4 , \$HC-8015-DRO-W, RX-SGT	G:\org\HP4\methods\DR_8015-010617-OJ-L%.met G:\org\HP4\methods\DR_ORO-010617-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.93 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.18r	MARKER_0106HP418r_DRO_0106HP4 , DRO211220B	g:\org\HP4\Methods\CSC220106.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.19r	CCV_0106HP419r_RRO_0106HP4 , DRO220106A	G:\org\HP4\Methods\DC_ORO-T-AC-L%.met G:\org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.20r	CCV_0106HP420r_DRO_0106HP4 , DRO220105B	G:\org\HP4\methods\DC_8015-C24-OJ-L%.met G:\org\HP4\methods\DS_8015-C24-OJ-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.54 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.21r	DCM-Baseline Check-V21	G:\org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.22r	B22010002-002D_0106HP4 , \$HC-8015-DRO-W, SGT	G:\org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	1050	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.23r	B22010002-001D_0106HP4 , \$HC-8015-DRO-W, SGT	G:\org\HP4\methods\D3_8015-C24T-OJ-L%.met G:\org\HP4\Methods\D3_ORO-S-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	980	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.24r	B22010002-003B_0106HP4 , \$HC-8015-DRO-W, SGT	G:\org\HP4\methods\D3_8015-C24T-OJ-L%.met G:\org\HP4\Methods\D3_ORO-S-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	1040	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.25r	DCM-Baseline Check-V25	G:\org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.26r	B21122168-001D_0106HP4 , \$HC-8015-DRO-W, SGT	G:\org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.27r	B21122168-006D_0106HP4 , \$HC-8015-DRO-W, SGT	G:\org\HP4\methods\DR_8015-C24T-OJ-L%.met G:\org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	1050	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.28r	B21122168-007B_0106HP4 , \$HC-8015-DRO-W, SGT	G:\org\HP4\methods\DR_8015-010628-OJ-L%.met G:\org\HP4\Methods\DR_ORO-S-ACA-L%.met G:\org\HP4\methods\DS_8015-T-OJ-L#.met	1050	1	1	1	0	The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.39 minutes and 16.93 minutes for (C24-C40). Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.51 minutes and after the surrogate peak at 12.84 minutes, Set Baseline All Valley on 14.07 minutes and Set Baseline Now at 16.91 minutes and X-axis scaling showing surrogate peak from 12-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.29r	B21122168-001DMS_0106HP4 , SGT	G:\org\HP4\methods\D3_8015-C24-OJ-L%.met G:\org\HP4\methods\DS_8015-C24-OJ-L#.met	1030	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.54 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.30r	B21122168-001DMSD_0106HP4 , SGT	G:\org\HP4\methods\D3_8015-010630-OJ-L%.met G:\org\HP4\methods\DS_8015-C24-OJ-L#.met	1040	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.54 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.31r	MARKER_0106HP431r_DRO_0106HP4 , DRO211220B	g:\org\HP4\Methods\CSC220106.met	1	1	1	1	0	No Integrations

G:\org\HP4\DAT\HP4010622_b\0106HP4.32	CCV_0106HP434r, RRO ,0106HP4 , DRC220106A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.33	CCV_0106HP435r, DRO ,0106HP4 , DRC220105B	G:\Org\HP4\methods\DC_8015-C24-OJ-L%.met G:\Org\HP4\methods\DS_8015-C24-OJ-L#.met	1	1	1	1	0	The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 17.1 minutes. Surrogates are integrated using a valley to valley integration using Set Baseline Now placed before at 12.54 minutes and after the surrogate peak at 12.78 minutes and X-axis scaling showing surrogate peak from 12-14 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.34	DCM-Baseline Check-V34	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.35f	LCS-162648-RRO ,0106HP4 , SGT	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-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 Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.36f	DCM-Baseline Check-V36	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.37f	B21122168-001DMS-RRO ,0106HP4 , SGT	G:\Org\HP4\Methods\D3_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1020	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 Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.38f	DCM-Baseline Check-V38	G:\Org\HP4\methods\DR_8015-OH-LEXP.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.39f	B21122168-001DMSD-RRO ,0106HP4 , SGT	G:\Org\HP4\Methods\D3_ORO-010639-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1050	1	1	1	0	The integration of Oil Range hydrocarbon 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 Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.
G:\org\HP4\DAT\HP4010622_b\0106HP4.40f	MARKER_0106HP440r, DRO ,0106HP4 , DRC211220B	G:\org\HP4\Methods\CSC220106.met	1	1	1	1	0	No Integrations
G:\org\HP4\DAT\HP4010622_b\0106HP4.41f	CCV_0106HP441r, RRO ,0106HP4 , DRC220106A	G:\Org\HP4\Methods\DC_ORO-T-AC-L%.met G:\Org\HP4\Methods\DS_ORO-T-AC-L%.met	1	1	1	1	0	The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set Baseline All Valley placed at 16.25 minutes and X-axis scaling showing surrogate peak from 15-18 minutes.

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.01.26 11:47:17 -07:00

Energy Laboratories Inc

Spike LOG

Standard ID: DRO211101A
Standard Name: OTP-4000 ug/mL DCM
Date Prepared: 11/1/2021
Date Expires: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary
BY: Ann Nebel
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC328	14408	25	mL	8/19/

Final Volume: 25 mL

<u>Stock Source</u>		Base Units	Amount Added
DRO200430B	O-Terphenyl	ug/mL	0.1012 g
<u>Analtes</u>		CAS	Conc: ug/mL
A	O-Terphenyl	84-15-1	4000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Date Prepared: 4/30/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C18H14
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

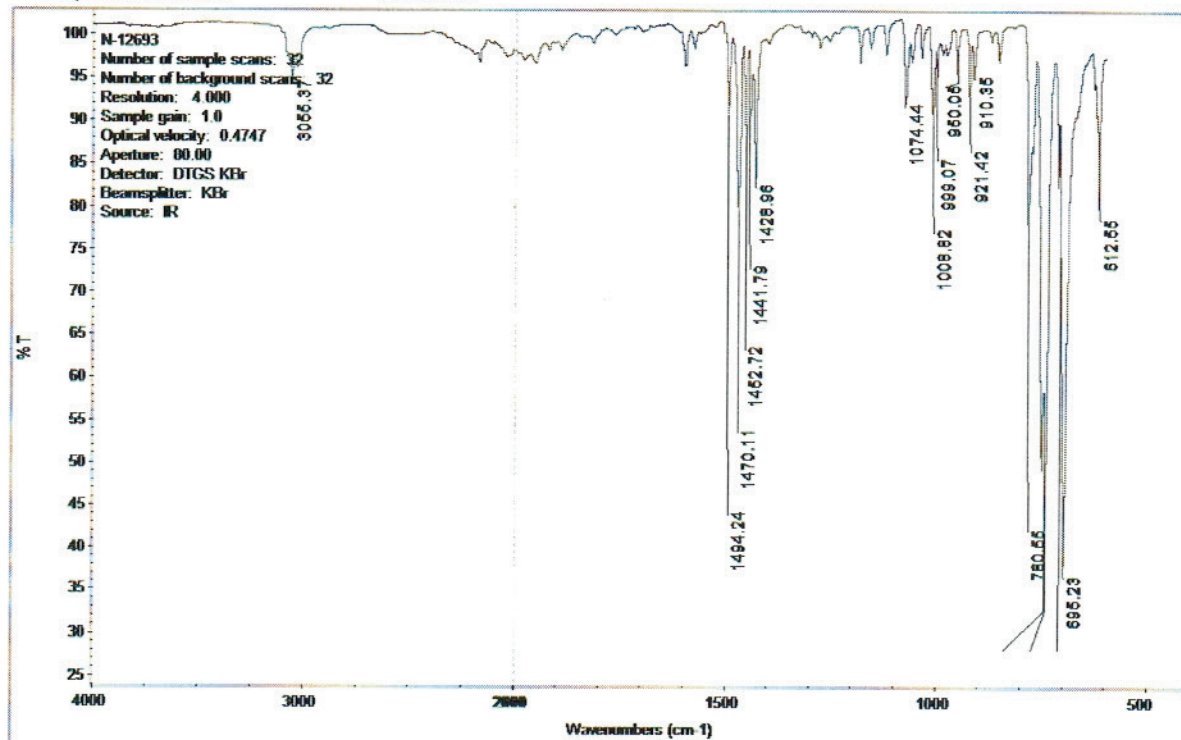
Energyl Laboratories Inc 1120 So. 27th Street

Billings MT 59107

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

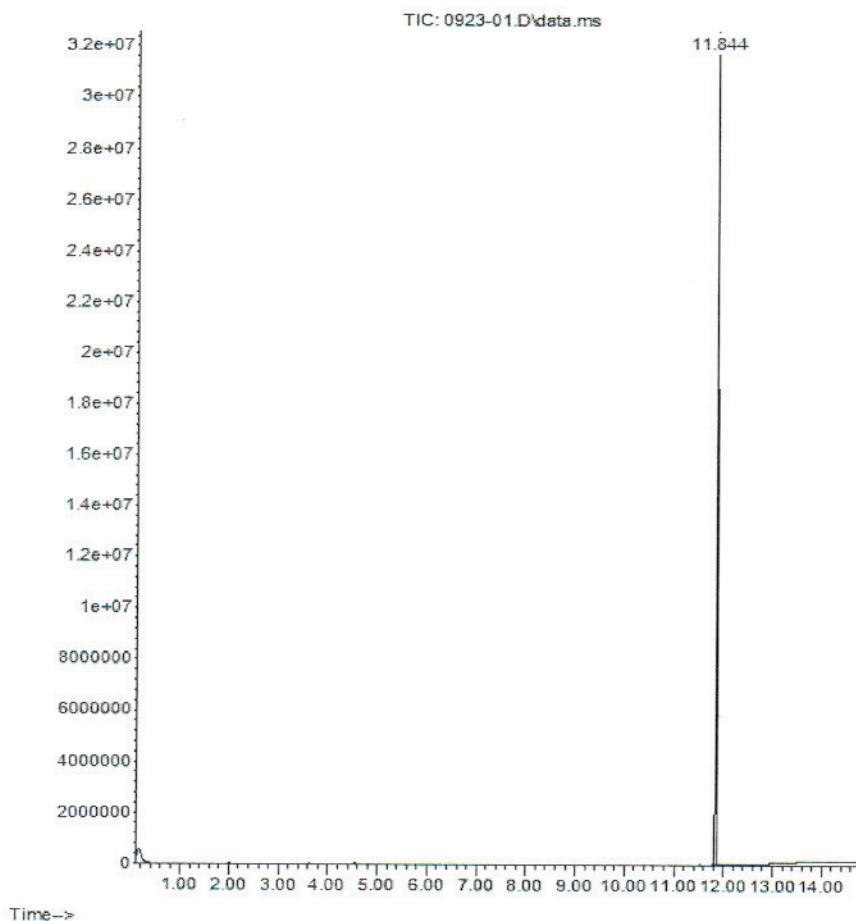
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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



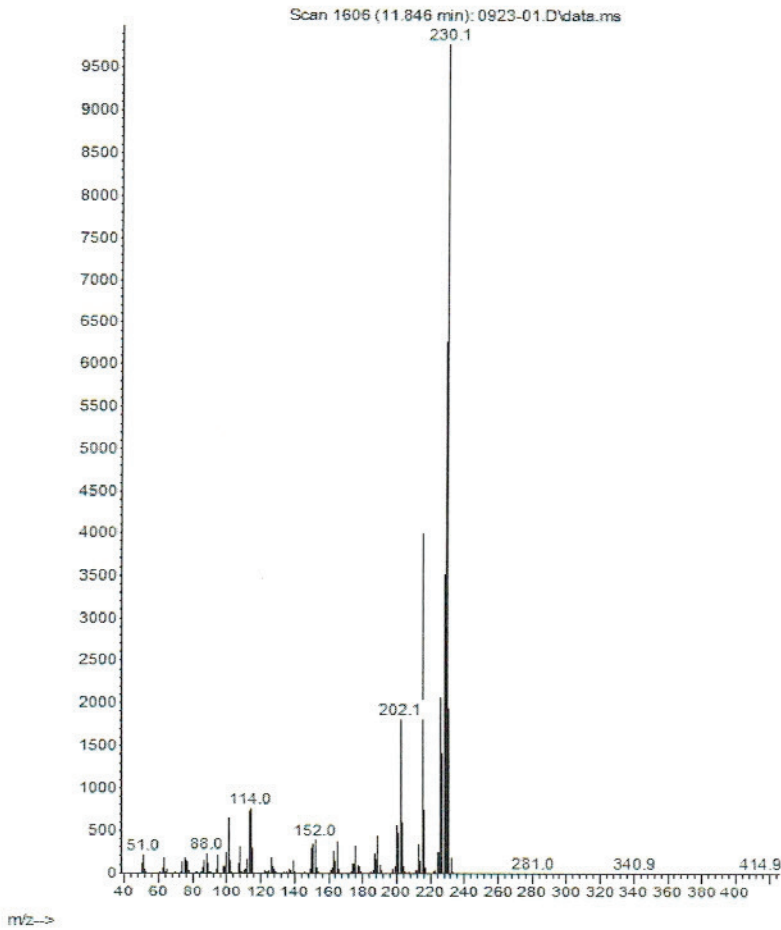
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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



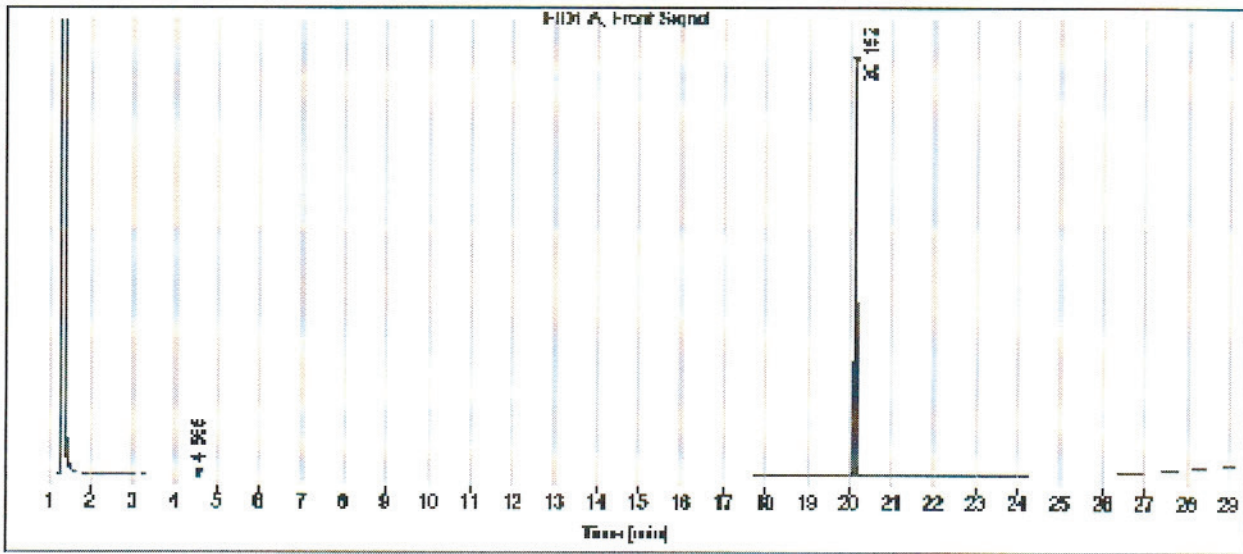
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
 Sample name: N-12893
 Instrument: GC 2
 Injection date: 8/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO211012A
Standard Name Diesel Fuel #2 50,000 ug/mL in DCM
Date Prepared 10/12/2021
Date Expires: 4/30/2023
Department dropr
Vendor: Sigma-Aldrich
Lot Number: LRAC6316
Balance ID:
Comments: Diesel Fuel #2 For CCVs.

Type: Primary
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Diesel Fuel No. 2	14376	1	mL	4/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

Diesel Fuel #2

0

Certificate of Analysis

Diesel Fuel No. 2

Certified
Reference
Material

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14376

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

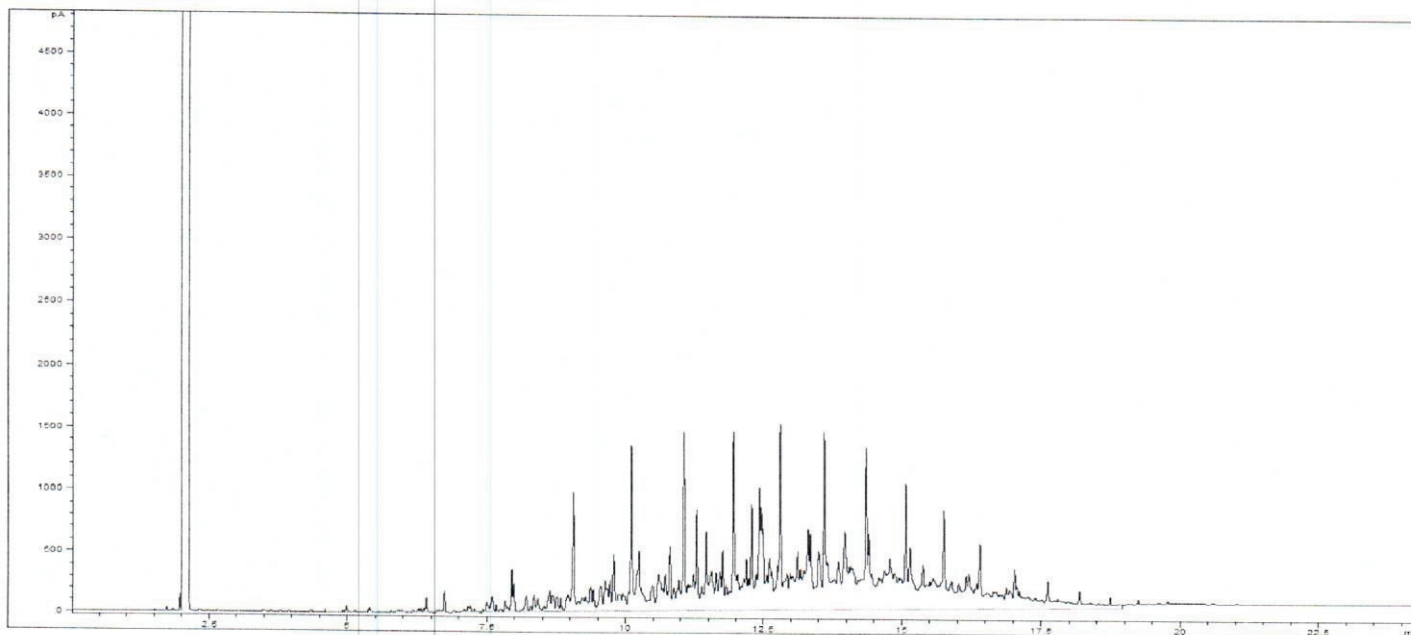
Rec'd: 10/12/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	Certified Value ^{1,4}	Units	Raw Material Purity,%	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10:1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

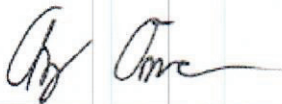
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

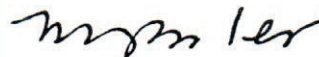
Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date April 30, 2020
Version 0-4302020



Energy Laboratories Inc

Standard LOG

Standard ID: DRO180918C
Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DC
Date Prepared: 9/18/2018
Date Expires: 8/31/2025
Department: dropr
Vendor: Restek
Lot Number: A0140080
Balance ID: Sartorius 4 place balance

Type: Primary
BY: Ann Nebel
Status: Open

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Calibration Standard	10787	1	mL	8/31/

Final Volume: 1 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817 Lot No.: A0140080

Description : Residual Range Calibration Standard (RCS)

Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : August 31, 2025 Storage: 25°C nominal

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,113.0 µg/mL	+/- 293.4226	µg/mL	Gravimetric
			+/- 1,492.4284	µg/mL	Unstressed
			+/- 1,591.6738	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 10787

Opened: _____

Residual Range Calibration Standard

Expires: **8/31/2025**

Rec'd: 9/18/2018

Energyl Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

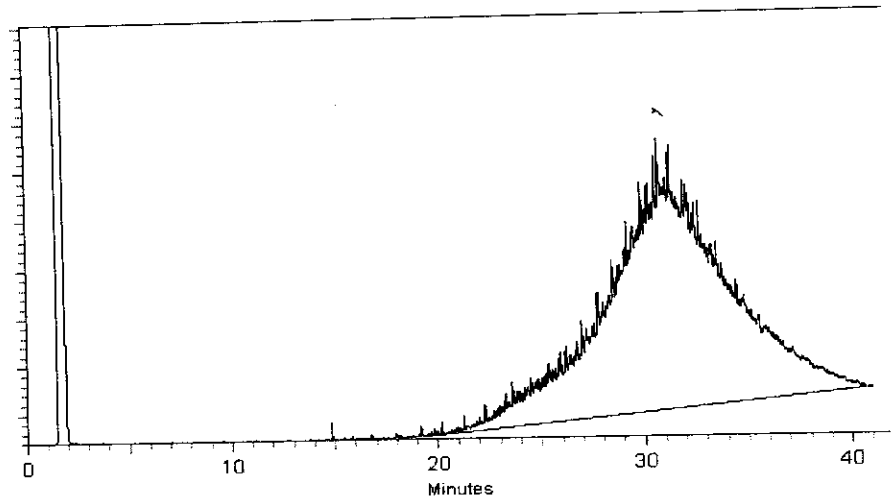
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 28-Jul-2018

Balance: B345965662

Diane Shaffer
Diane Shaffer - Operations Tech-ARM QC

Date Passed: 30-Jul-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
Standard Name: Triacontane SURR 2000 ug/mL
Date Prepared: 10/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
ug/mL

Amount Added
0.1001 g

Analtes
A Triacontane-d62

CAS

Conc: **ug/mL**
2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210406A
Standard Name: Triacontane-d62 Surr For AK103 RRO
Date Prepared: 4/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor: Sigma-Aldrich
Lot Number: MBBC4347
Balance ID:
Comments: Alaska surr [for AK103 RRO]

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A Triacontane-d62

1

3050 Spruce Street, Saint Louis, MO 63103, USA
 Website: www.sigmaaldrich.com
 Email USA: techserv@sial.com
 Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
 Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

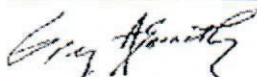
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211012B
Standard Name #2 Diesel in Acetone 150,000 ug/mL Type: Secondary
Date Prepared 10/12/2021 BY: Ann Nebel
Date Expires: 11/5/2023
Department dropr Status: New
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: #2 Diesel in Acetone 150,000 ug/mL.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone EA662	14050	25	mL	1/7/2

Final Volume: 25 mL

Stock Source

DRO181105A #2 Diesel (NEAT)

Base Units

ug/mL

Amount Added

3.7507 g

Analtes

A #2 Diesel

CAS

68476-34-6

Conc:

ug/mL

150000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO181105A
Standard Name #2 Diesel (NEAT) Type: Neat
Date Prepared 11/5/2018 BY: Ann Nebel
Date Expires: 11/5/2023
Department dropr Status: New
Vendor: conoco
Lot Number:
Balance ID:
Comments: -18 Cloud peak. (Conoco Gas Station 1240 S. 27th Billings, MT) 2nd Source

<u>Stock Source</u>	<u>Base Units</u>	<u>Final Volume:</u>	<u>Amount Added</u>
<u>Analvtes</u>	<u>CAS</u>	250 mL	
A #2 Diesel	68476-34-6	Conc:	ug/mL 1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210902A
 Standard Name: 50,000 ug/mL Oil Std for RRO-In DCM
 Date Prepared: 9/2/2021
 Date Expires: 9/1/2026
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: .625 g of 30W and 40 W each LCS for Oil range

Type: Secondary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EB867	14196	25	mL	6/18/

Final Volume: 25 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO210901B 40W Motor Oil-Valvoline	ug/mL	0.6261 g
DRO210901A 30W Motor Oil-Valvoline	ug/mL	0.6254 g

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 30W Motor Oil			10000
A 30W-Motor oil			0
A 40W Motor Oil			10000
A 40W-Motor oil			0

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210901A
Standard Name: 30W Motor Oil-Valvoline
Date Prepared: 9/1/2021
Date Expires: 9/1/2026
Department: dropr
Vendor:
Lot Number: F1620C1
Balance ID:
Comments: Used to make 2nd Source Standard for AK103 method.

Type: Primary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 30 Motor Oil	14232		mL	9/1/2

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 30W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210901B
Standard Name: 40W Motor Oil-Valvoline
Date Prepared: 9/1/2021
Date Expires: 9/1/2026
Department: dropr
Vendor:
Lot Number: L0717H2
Balance ID:
Type: Primary
BY: Jillian L Bostwick
Status: New
Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 40 Motor Oil	14231		mL	9/1/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 40W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211229A
 Standard Name: 8015 CCV-15,000ug/mL + 200 OTP/COD
 Date Prepared: 12/29/2021
 Date Expires: 4/30/2023
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID:
 Comments: 8015DRO CCV MIX-15,000ug/mL +200 OTP/COD #2 Diesel

Type: Secondary
 BY: Ann Nebel
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	2.4	mL	10/28

Final Volume: 4 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO211112C OTP/COD SURR 2000 ug/mL	ug/mL	0.4 mL
DRO211102B Diesel Fuel #2 50,000 ug/mL in DCM	ug/mL	1.2 mL

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A #2 Diesel			15000
A 1-Chlorooctadecane	3386-33-2		200
Diesel Fuel #2			0
A O-Terphenyl	84-15-1		200

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211102B
Standard Name Diesel Fuel #2 50,000 ug/mL in DCM Type: Primary
Date Prepared 11/2/2021 BY: Ann Nebel
Date Expires: 4/30/2023
Department dropr Status: New
Vendor: Sigma-Aldrich
Lot Number: LRAC6316
Balance ID:
Comments: Diesel Fuel #2 For CCVs.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Diesel Fuel No. 2	14478	1	mL	4/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

Diesel Fuel #2

0

Certificate of Analysis

Diesel Fuel No. 2

Certified
Reference
Material

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14478

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

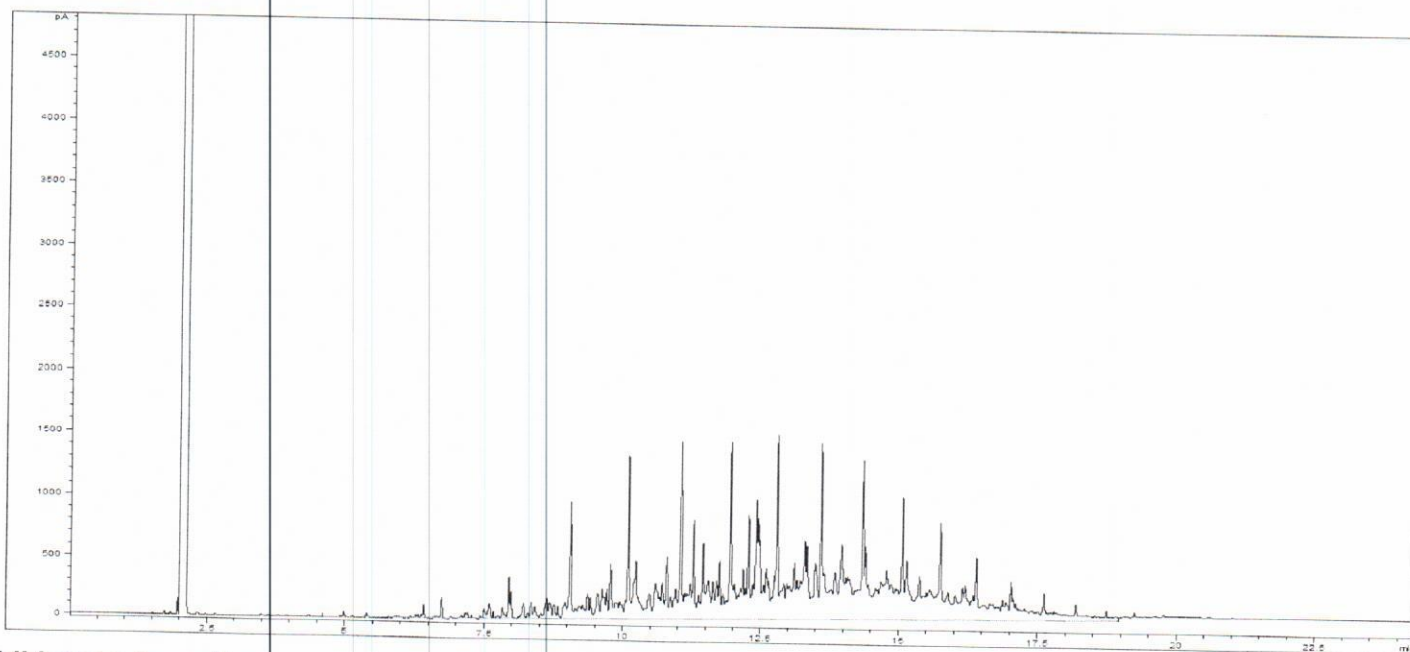
Rec'd: 11/2/2021

Energex Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	Certified Value ^{1,4}	Units	Raw Material Purity, %	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

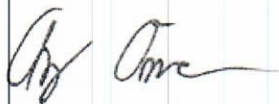
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470)**.



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date April 30, 2020
Version 0-4302020



Energy Laboratories Inc

Standard LOG

Standard ID: DRO211112C
 Standard Name: OTP/COD SURR 2000 ug/mL
 Date Prepared: 11/12/2021
 Date Expires: 9/30/2024
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: OTP/COD SURR 2000 ug/mL

Type: Secondary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	100	mL	7/22/

Final Volume: 100 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO201014C 1-Chlorooctadecane	ug/mL	0.2 g
DRO201014B O-Terphenyl	ug/mL	0.061 g
DRO200430B O-Terphenyl	ug/mL	0.1392 g

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 1-Chlorooctadecane	3386-33-2		2000
A O-Terphenyl	84-15-1		2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Date Prepared: 4/30/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C₁₈H₁₄
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

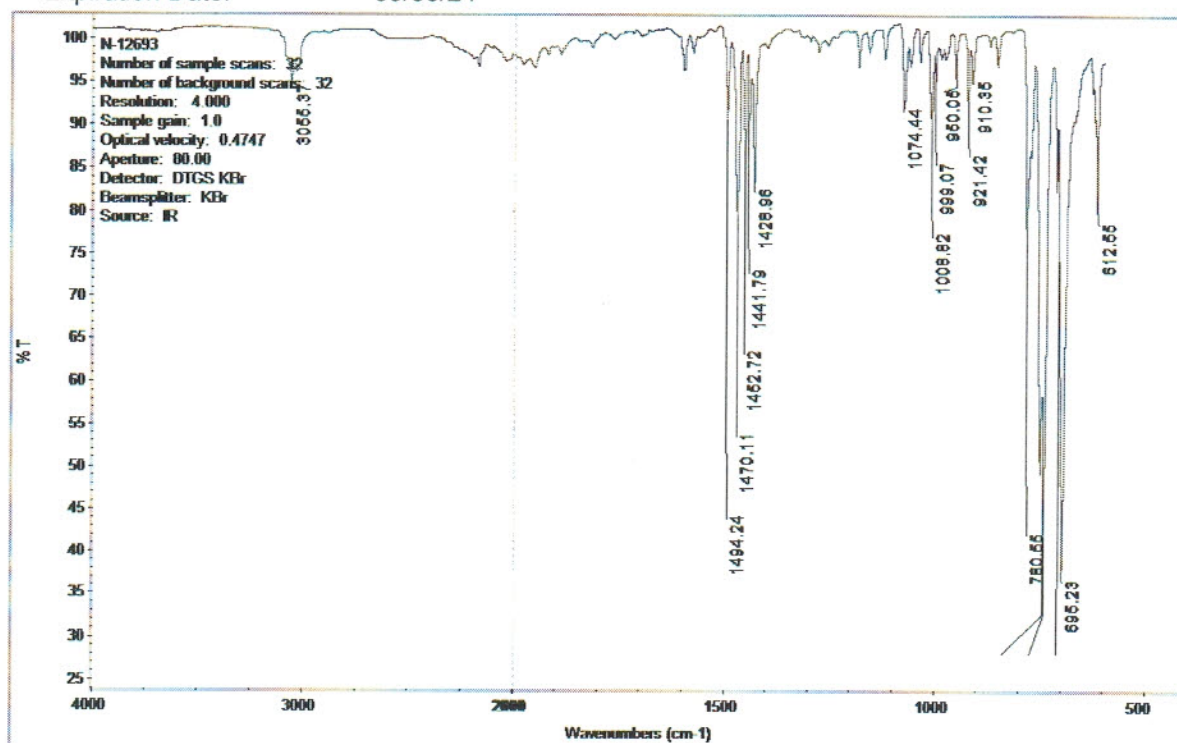
Rec'd: 4/30/2020

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24
Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

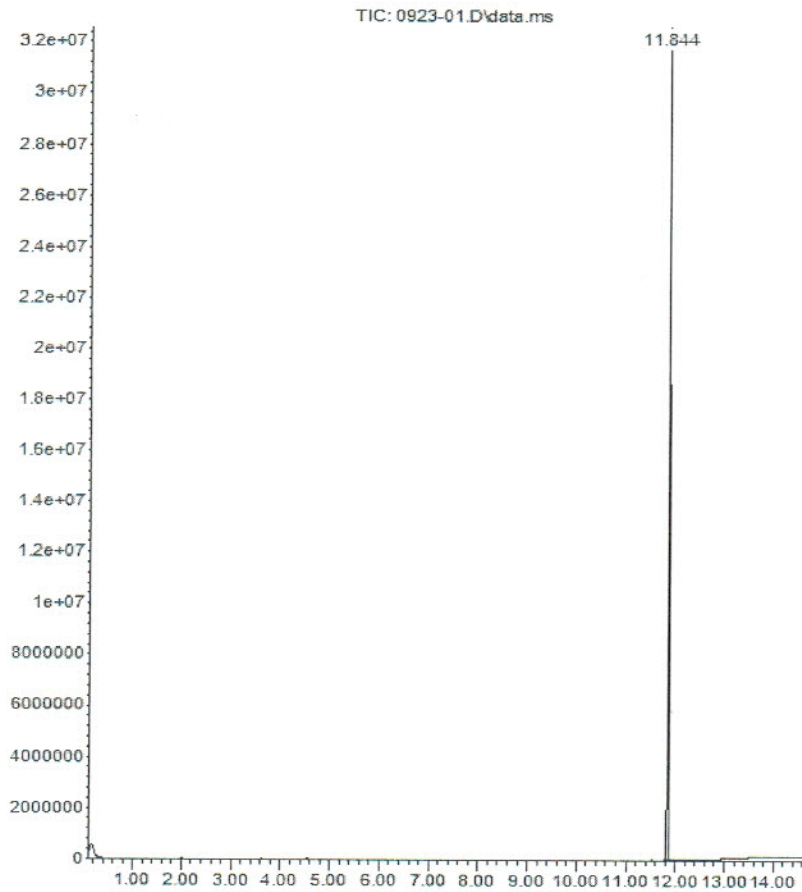
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CERTIFICATE OF ANALYSIS

Analysis Method:

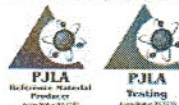
Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Time-->

Chem. Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



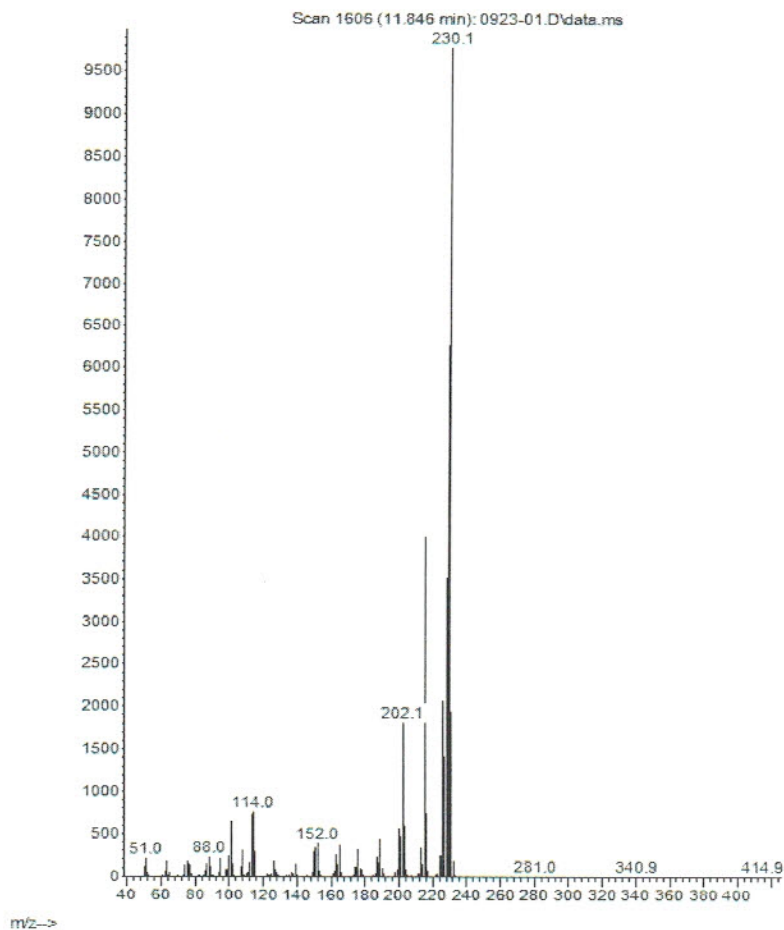
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



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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



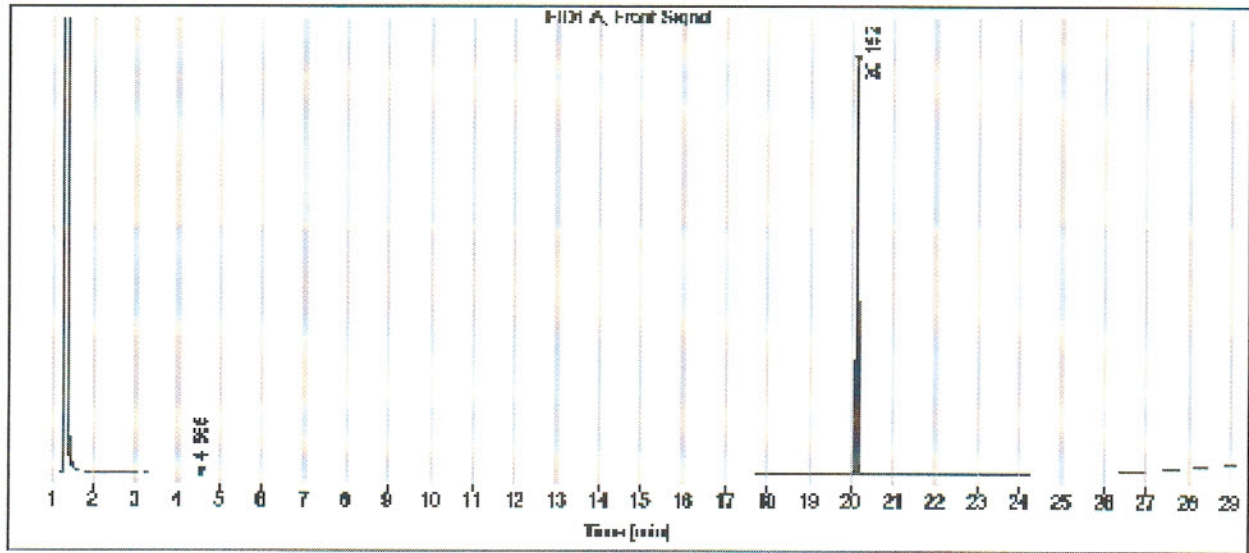
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Gas

Data file: C:\CHEM3\
 Sample name: N-12683
 Instrument: GC 2
 Injection date: 9/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Sample type:
 Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO201014B
Standard Name: O-Terphenyl
Date Prepared: 10/14/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 10029300
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	13191	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

Am

CHEM SERVICE INC.

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CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER	N-12693-500MG
LOT NUMBER	10029300
DATE CERTIFIED	09/23/19
EXPIRATION DATE	09/30/24
CAS NUMBER	84-15-1
MOLECULAR FORMULA	C18H14
MOLECULAR WEIGHT	230.32
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

<u>Analytical Test</u>	<u>Value</u>
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 13191
 Opened: _____
 o-Terphenyl
Expires: 9/30/2024
 Rec'd: 10/14/2020
 Energv Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

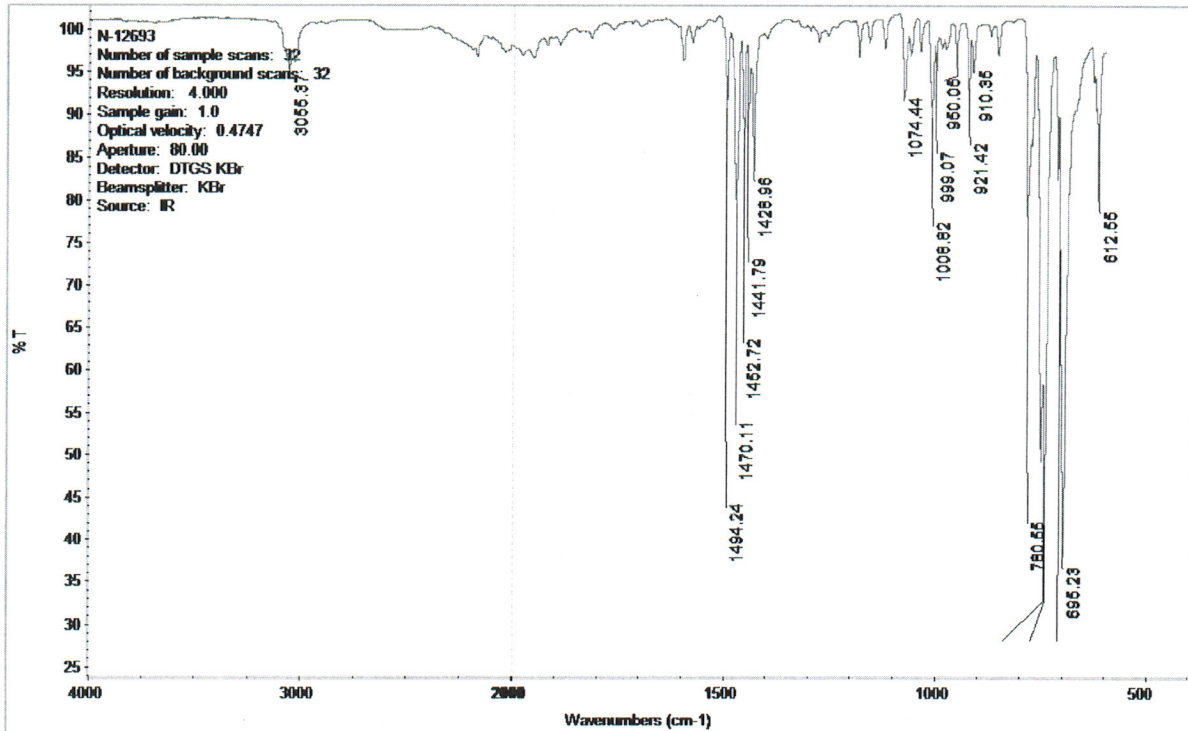
COA Form
Revision 3 (3/2015)



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24
Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

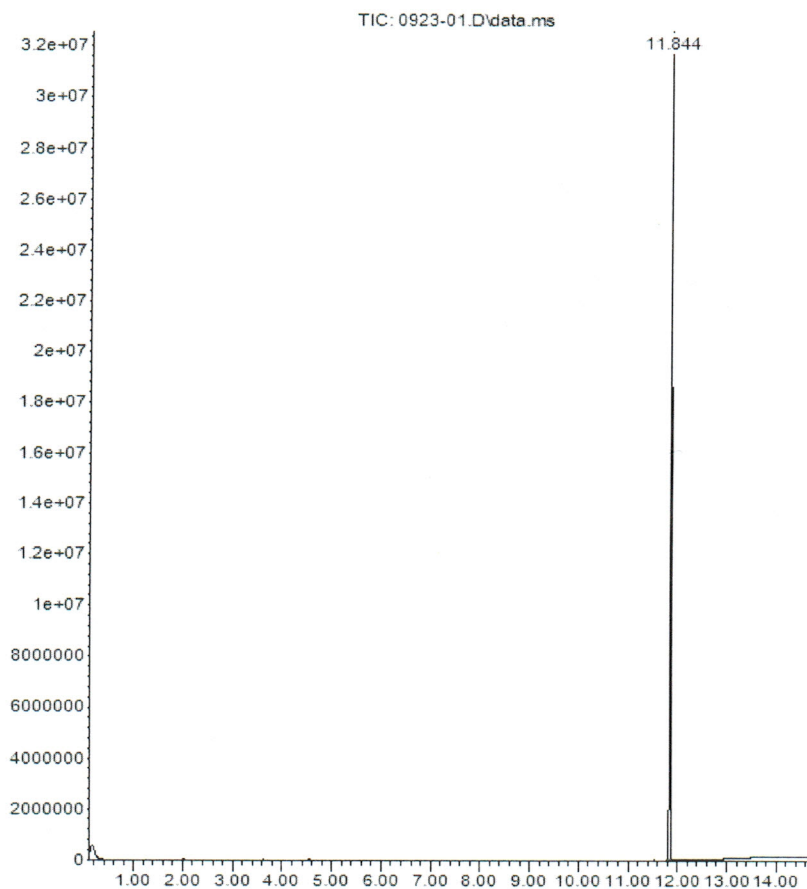
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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

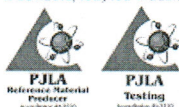
Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



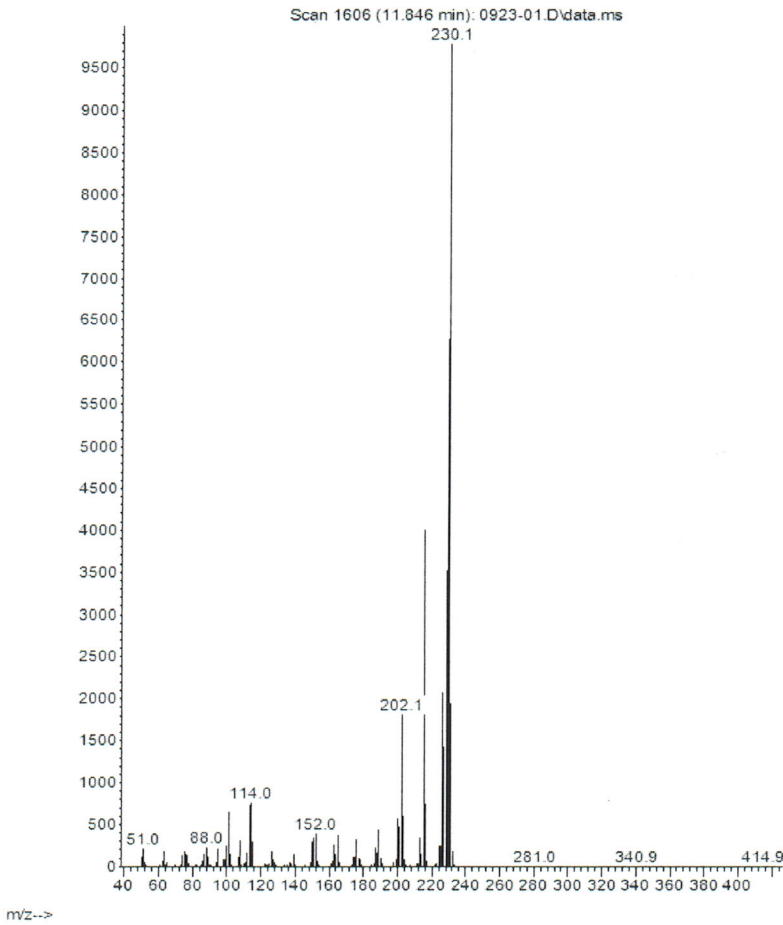
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 10029300
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



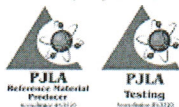
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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	10029300
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



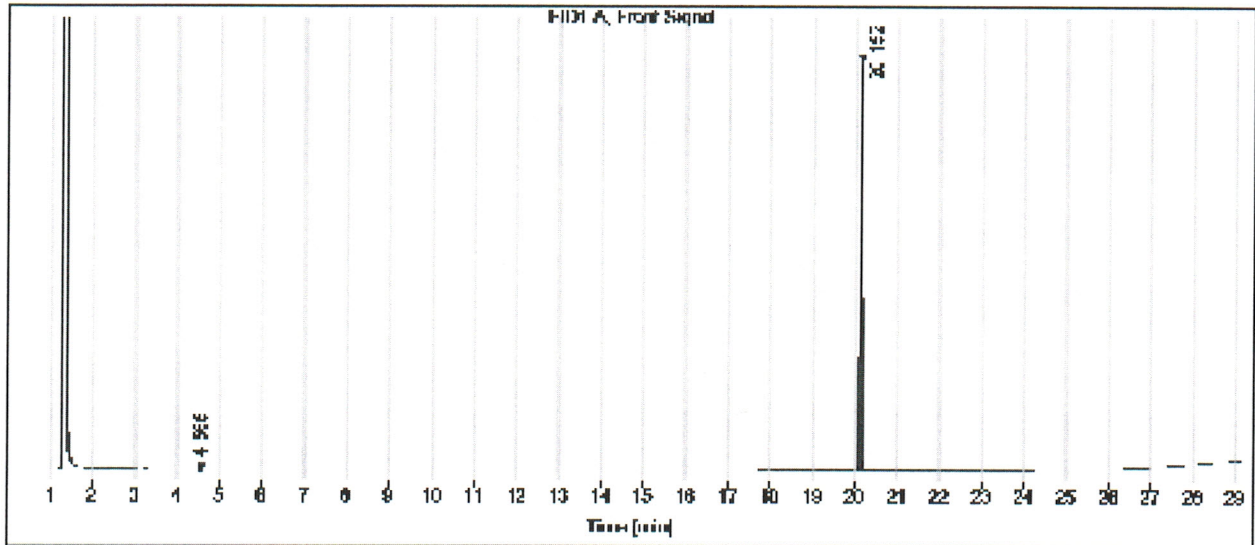
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
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Gas

Data file: C:\CHEM3\
 Sample name: N-12893
 Instrument: GC 2
 Injection date: 9/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

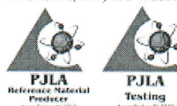
Sample type: Sample
 Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO220105B
 Standard Name: 8015 CCV-15,000ug/mL + 200 OTP
 Date Prepared: 1/5/2022
 Date Expires: 4/30/2023
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID:
 Comments: 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

Type: Secondary
 BY: Ann Nebel
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	2.6	mL	10/28

Final Volume: 4 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO211101A OTP-4000 ug/mL DCM	ug/mL	0.2 mL
DRO211214C Diesel Fuel #2 50,000 ug/mL in DCM	ug/mL	1.2 mL

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A #2 Diesel			15000
Diesel Fuel #2			0
A O-Terphenyl	84-15-1		200

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211214C
Standard Name Diesel Fuel #2 50,000 ug/mL in DCM
Date Prepared 12/14/2021
Date Expires: 4/30/2023
Department dropr
Vendor: Sigma-Aldrich
Lot Number: LRAC6316
Balance ID:
Comments: Diesel Fuel #2 For CCVs.

Type: Primary
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Diesel Fuel No. 2	14623	1	mL	4/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

Diesel Fuel #2

0

Certificate of Analysis

Diesel Fuel No. 2

*Certified
Reference
Material*

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14623

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

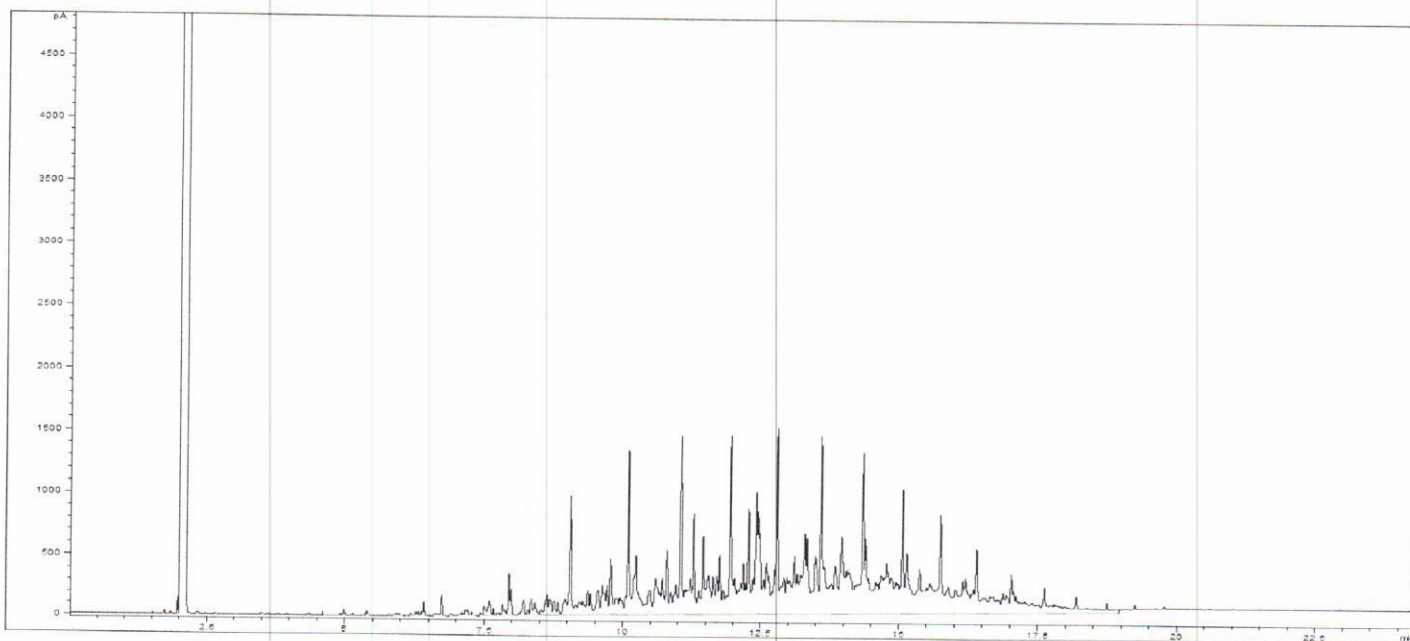
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

Analyte	Certified Value ^{1,4}	Units	Raw Material Purity,%	Raw Material Lot	CAS
NO.2 FUEL OIL	50001 ± 2770	µg/mL	100.0	LA80505	68476-34-6

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



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.

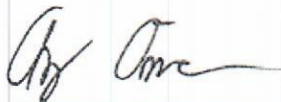
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual 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



Energy Laboratories Inc

Spike LOG

Standard ID: DRO211101A
Standard Name: OTP-4000 ug/mL DCM
Date Prepared: 11/1/2021
Date Expires: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary
BY: Ann Nebel
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC328	14408	25	mL	8/19/

Final Volume: 25 mL

Stock Source

DRO200430B O-Terphenyl

Base Units

ug/mL

Amount Added

0.1012 g

Analtes

A O-Terphenyl

CAS

84-15-1

Conc:

ug/mL

4000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Date Prepared: 4/30/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

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CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C₁₈H₁₄
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

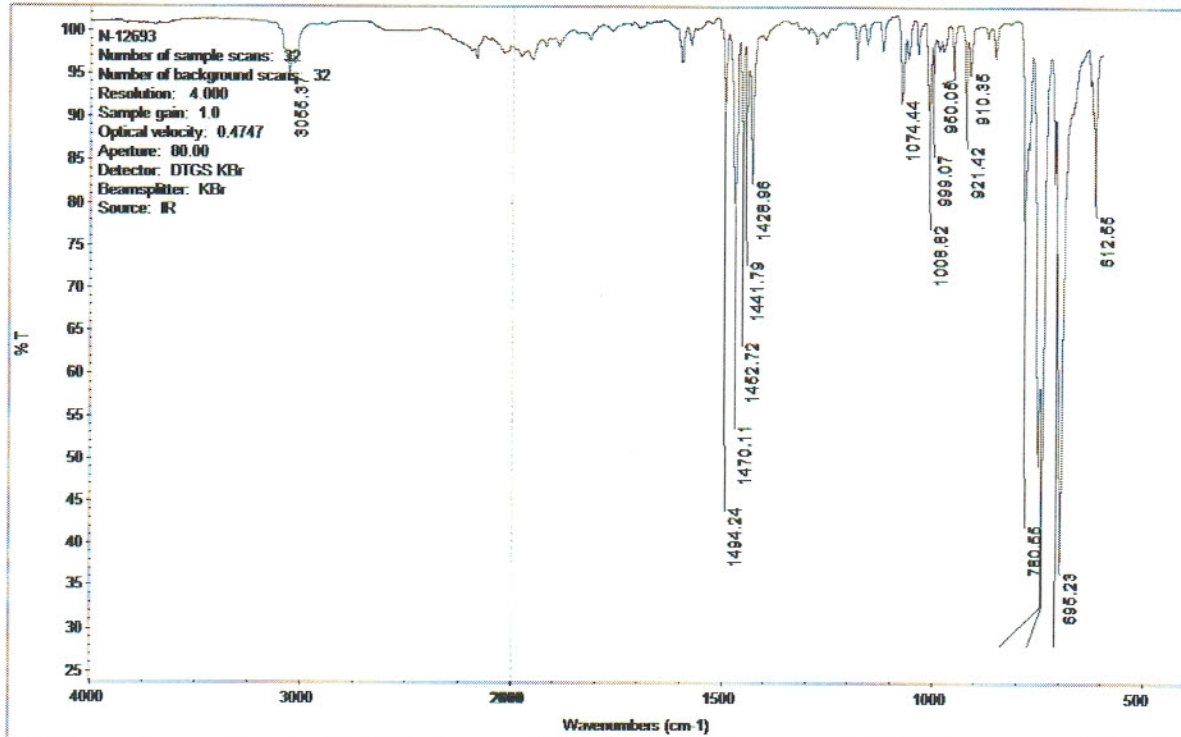
Rec'd: 4/30/2020

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24
Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

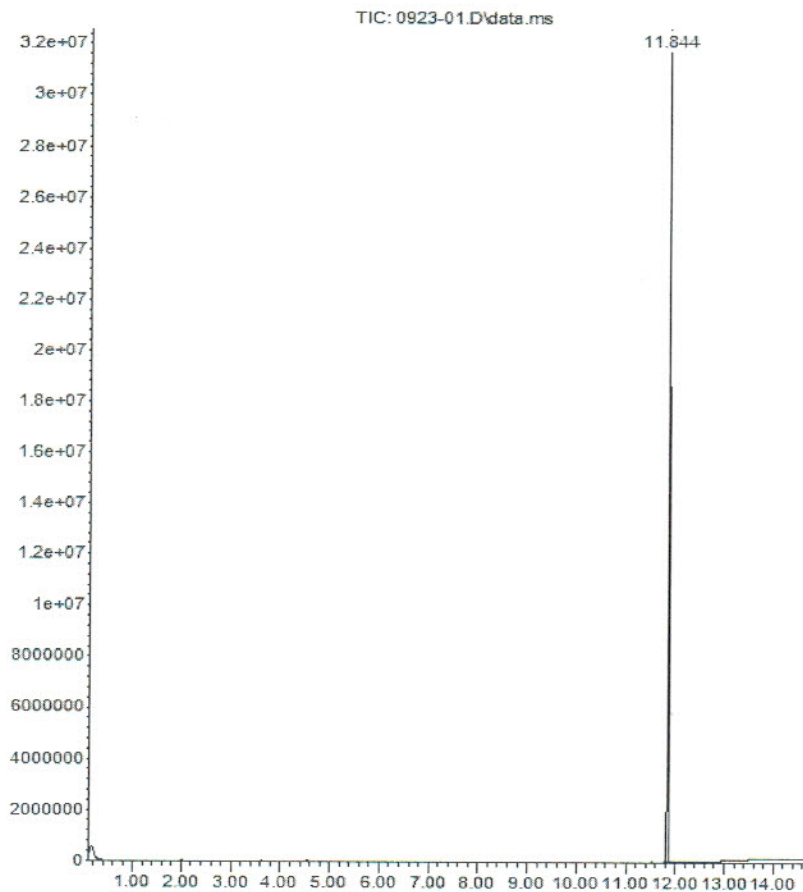
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Time-->

Chem. Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



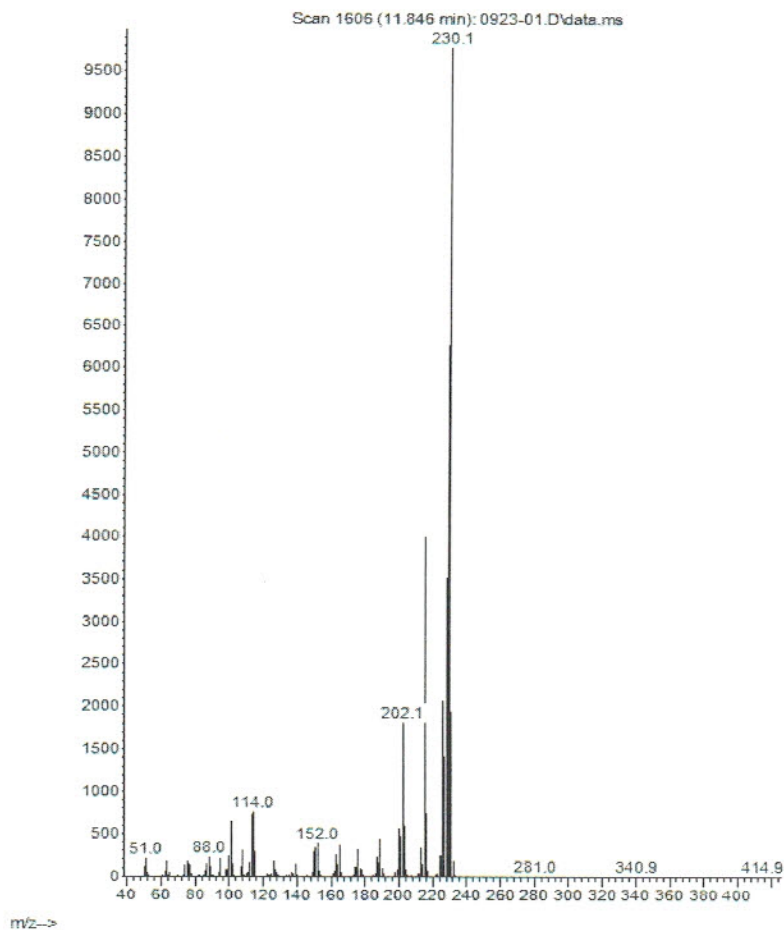
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-12693-500MG
Description:	o-Terphenyl
Lot Number:	9972100
Expiration Date:	09/30/24

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



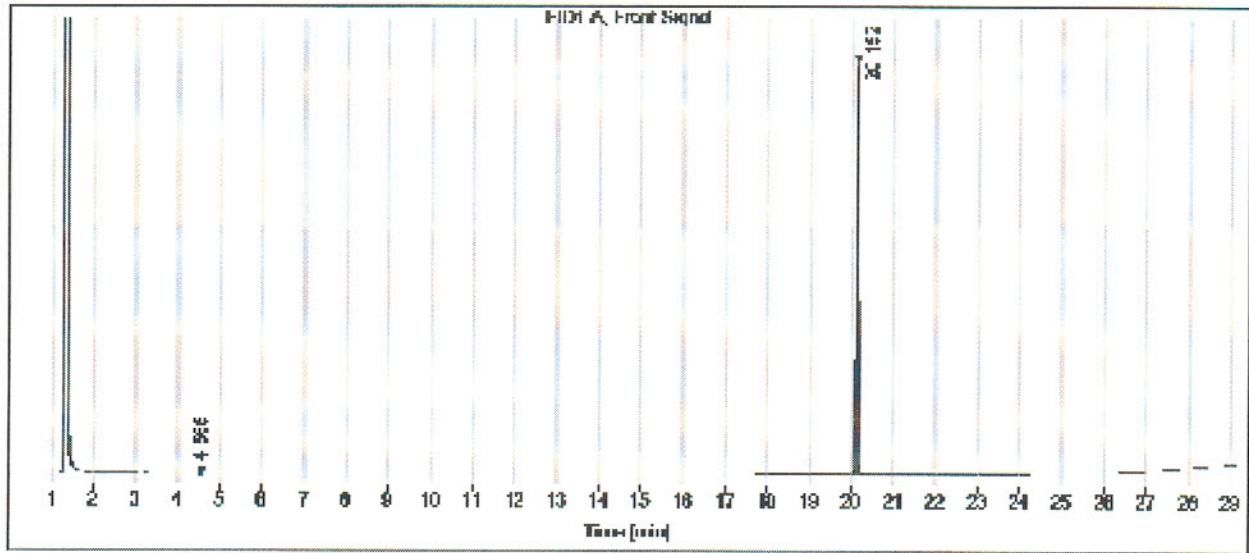
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info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
 Sample name: N-12683
 Instrument: GC 2
 Injection date: 9/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Sample type:
 Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



Energy Laboratories Inc

Standard LOG

Standard ID: DRO220102A
Standard Name 5,000 ug/mL RRO CCV 200 ug/mL Triaconta Type: Secondary
Date Prepared 1/2/2022 BY: Ann Nebel
Date Expires: 4/6/2026
Department dropr Status: New
Vendor:
Lot Number:
Balance ID: Sartorius 4 place balance
Comments: CCV for AK102 and 8015C RRO.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC757	14596	2.8	mL	10/20

Final Volume: 4 mL

Stock Source

DRO210401B 50,000 ug/mL Oil Std For AK103 RRO-I
DRO211129A Triacontane SURR 1000 ug/mL

Base Units

ug/mL
ug/mL

Amount Added

400 µL
800 µL

Analtes

A 30/40W Motor Oil
A Triacontane-d62

CAS

Conc: **ug/mL**
5000
200

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210401B
Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DC
Date Prepared: 4/1/2021
Date Expires: 1/31/2028
Department: dropr
Vendor: Restek
Lot Number: A0166827
Balance ID: Sartorius 4 place balance

Type: Primary
BY: Ann Nebel
Status: Open

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Calibration Standard (	13714	1	mL	1/31/

Final Volume: 1 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817 **Lot No.:** A0166827

Description : Residual Range Calibration Standard (RCS)
Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,056.0 µg/mL	+/- 293.0889 µg/mL	+/- 1,490.7309 µg/mL	+/- 1,589.8634 µg/mL
			Gravimetric	Unstressed	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 13714
Opened: _____
Residual Range Calibration Standard (RCS)
Expires: 1/31/2028
Rec'd: 4/1/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

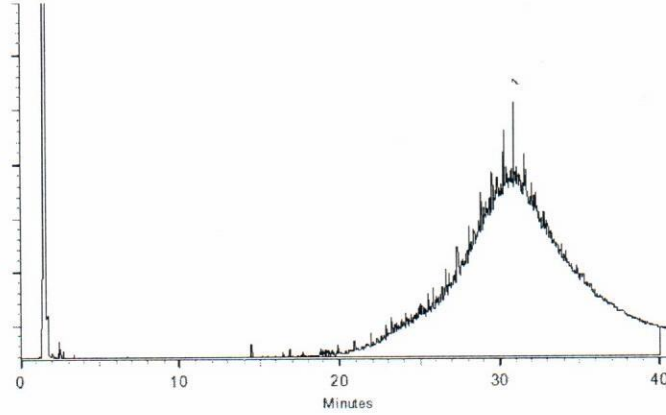
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble
Kylie Struble - Operations Technician I

Date Mixed: 02-Dec-2020

Balance: 1128353505

Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Passed: 07-Dec-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211129A
Standard Name: Triacotane SURR 1000 ug/mL
Date Prepared: 11/29/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: 2X dilution of Triacotane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC735	14518	5	mL	10/14

Final Volume: 10 mL

Stock Source
DRO211006A Triacotane SURR 2000 ug/mL

Base Units
ug/mL

Amount Added
5 mL

Analtes
A Triacotane-d62

CAS

Conc: ug/mL
1000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
Standard Name: Triacontane SURR 2000 ug/mL
Date Prepared: 10/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
ug/mL

Amount Added
0.1001 g

Analtes
A Triacontane-d62

CAS

Conc: **ug/mL**
2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210406A
Standard Name: Triacontane-d62 Surr For AK103 RRO
Date Prepared: 4/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor: Sigma-Aldrich
Lot Number: MBBC4347
Balance ID:
Comments: Alaska surr [for AK103 RRO]

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/26

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A Triacontane-d62

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

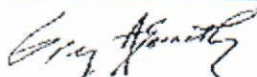
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO220106A
 Standard Name: 5,000 ug/mL RRO CCV 200 ug/mL Triaconta Type: Secondary
 Date Prepared: 1/6/2022 BY: Ann Nebel
 Date Expires: 4/6/2026
 Department: dropr Status: New
 Vendor:
 Lot Number:
 Balance ID: Sartorius 4 place balance
 Comments: CCV for AK102 and 8015C RRO.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	2.8	mL	10/28

Final Volume: 4 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO210401B 50,000 ug/mL Oil Std For AK103 RRO-I	ug/mL	400 µL
DRO220105A Triacontane SURR 1000 ug/mL	ug/mL	800 µL

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 30/40W Motor Oil			5000
A Triacontane-d62			200

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210401B
Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DC
Date Prepared: 4/1/2021
Date Expires: 1/31/2028
Department: dropr
Vendor: Restek
Lot Number: A0166827
Balance ID: Sartorius 4 place balance

Type: Primary
BY: Ann Nebel
Status: Open

Comments:

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Residual Range Calibration Standard (	13714	1	mL	1/31/

Final Volume: 1 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817 **Lot No.:** A0166827

Description : Residual Range Calibration Standard (RCS)
Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,056.0 µg/mL	+/- 293.0889 µg/mL	+/- 1,490.7309 µg/mL	+/- 1,589.8634 µg/mL
			Gravimetric	Unstressed	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 13714
Opened: _____
Residual Range Calibration Standard (RCS)
Expires: 1/31/2028
Rec'd: 4/1/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

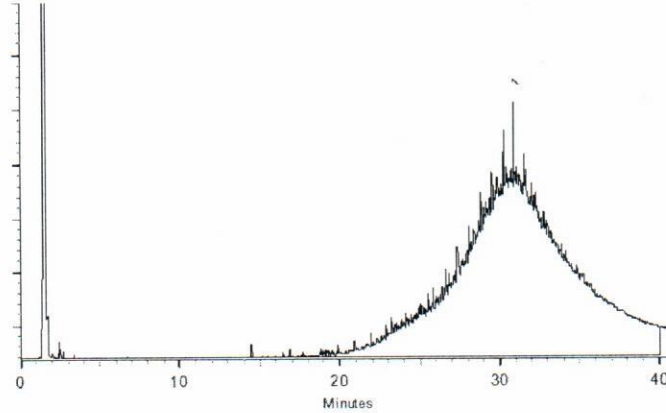
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble
Kylie Struble - Operations Technician I

Date Mixed: 02-Dec-2020

Balance: 1128353505

Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Passed: 07-Dec-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO220105A
Standard Name: Triacotane SURR 1000 ug/mL
Date Prepared: 1/5/2022
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: 2X dilution of Triacotane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC832	14647	5	mL	10/28

Final Volume: 10 mL

Stock Source
DRO211006A Triacotane SURR 2000 ug/mL

Base Units
ug/mL

Amount Added
5 mL

Analtes
A Triacotane-d62

CAS

Conc: ug/mL
1000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
Standard Name: Triacontane SURR 2000 ug/mL
Date Prepared: 10/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
ug/mL

Amount Added
0.1001 g

Analtes
A Triacontane-d62

CAS

Conc: **ug/mL**
2000

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

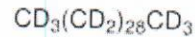
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

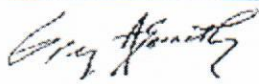
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C


 Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210902A
 Standard Name: 50,000 ug/mL Oil Std for RRO-In DCM
 Date Prepared: 9/2/2021
 Date Expires: 9/1/2026
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: .625 g of 30W and 40 W each LCS for Oil range

Type: Secondary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EB867	14196	25	mL	6/18/

Final Volume: 25 mL

<u>Stock Source</u>	<u>Base Units</u>	<u>Amount Added</u>
DRO210901B 40W Motor Oil-Valvoline	ug/mL	0.6261 g
DRO210901A 30W Motor Oil-Valvoline	ug/mL	0.6254 g

<u>Analtes</u>	<u>CAS</u>	<u>Conc:</u>	<u>ug/mL</u>
A 30W Motor Oil			10000
A 30W-Motor oil			0
A 40W Motor Oil			10000
A 40W-Motor oil			0

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210901B
Standard Name: 40W Motor Oil-Valvoline
Date Prepared: 9/1/2021
Date Expires: 9/1/2026
Department: dropr
Vendor:
Lot Number:
Balance ID:
Type: Primary
BY: Jillian L Bostwick
Status: New
Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 40 Motor Oil	14231		mL	9/1/26

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 40W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210901A
Standard Name: 30W Motor Oil-Valvoline
Date Prepared: 9/1/2021
Date Expires: 9/1/2026
Department: dropr
Vendor:
Lot Number:
Balance ID:
Type: Primary
BY: Jillian L Bostwick
Status: New
Comments: Used to make 2nd Source Standard for AK103 method.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Valvoline SAE 30 Motor Oil	14232		mL	9/1/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A 30W-Motor oil

1

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211220D
Standard Name: Triacotane SURR 1000 ug/mL
Date Prepared: 12/20/2021
Date Expires: 4/6/2026
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: 2X dilution of Triacotane SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Dichloromethane EC757	14596	5	mL	10/20

Final Volume: 10 mL

Stock Source
DRO211006A Triacotane SURR 2000 ug/mL

Base Units
ug/mL

Amount Added
5 mL

Analtes
A Triacotane-d62

CAS

Conc: **ug/mL**
1000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211006A
 Standard Name: Triacontane SURR 2000 ug/mL
 Date Prepared: 10/6/2021
 Date Expires: 4/6/2026
 Department: dropr
 Vendor:
 Lot Number:
 Balance ID: BAL-DRO
 Comments: Triacontane SURR 2000 ug/mL

Type: Secondary
 BY: Jillian L Bostwick
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	50	mL	7/22/

Final Volume: 50 mL

Stock Source
 DRO210406A Triacontane-d62 Surr For AK103 RRO

Base Units
 ug/mL

Amount Added
 0.1001 g

Analtes
 A Triacontane-d62

CAS

Conc: **ug/mL**
 2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO210406A
Standard Name: Triacontane-d62 Surr For AK103 RRO
Date Prepared: 4/6/2021
Date Expires: 4/6/2026
Department: dropr
Vendor: Sigma-Aldrich
Lot Number: MBBC4347
Balance ID:
Comments: Alaska surr [for AK103 RRO]

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Triacontane-d62-98 atom % D	13736		mL	4/6/2026

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

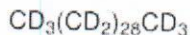
A Triacontane-d62

3050 Spruce Street, Saint Louis, MO 63103, USA
 Website: www.sigmaaldrich.com
 Email USA: techserv@sial.com
 Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
 Triacontane-d62 - 98 atom % D

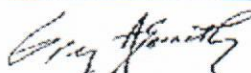
Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____
 Triacontane-d62-98 atom % D
Expires: 4/6/2026
 Rec'd: 4/6/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Test	Specification	Result
Purity (HPLC)	≥ 99.0 %	99.0 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	99.0 %
Initial Melting Point		60.0 °C
Final Melting Point		62.0 °C


 Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Energy Laboratories Inc

Standard LOG

Standard ID: DRO211213A
Standard Name: OTP only SURR 2000 ug/mL
Date Prepared: 12/13/2021
Date Expires: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: OTP SURR 2000 ug/mL

Type: Secondary
BY: Jillian L Bostwick
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Acetone DZ509	13553	100	mL	7/22/

Final Volume: 100 mL

Stock Source

DRO200430B O-Terphenyl

Base Units

ug/mL

Amount Added

0.2015 g

Analtes

A 1-Chlorooctadecane

CAS

3386-33-2

Conc:

ug/mL

2000

Energy Laboratories Inc

Standard LOG

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Date Prepared: 4/30/2020
Date Expires: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
BY: Ann Nebel
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
o-Terphenyl	12650	500	mg	9/30/

Final Volume: mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: ug/mL

A O-Terphenyl

84-15-1

1

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C₁₈H₁₄
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
GC/MS SPECTRA ID	MATCHES NIST DATABASE
MELTING POINT (°C)	57.1
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

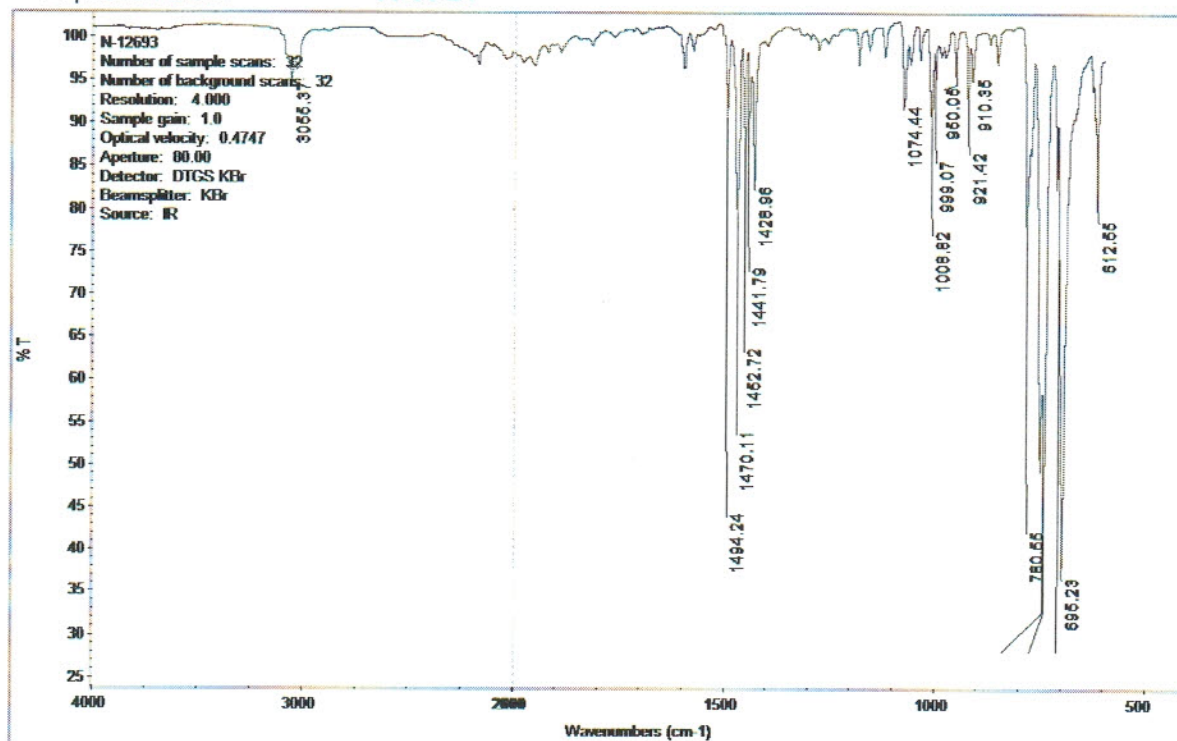
Rec'd: 4/30/2020

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24
Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.844	1597	1606	1613	BB	32038221	432253484	100.00%	100.000%

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

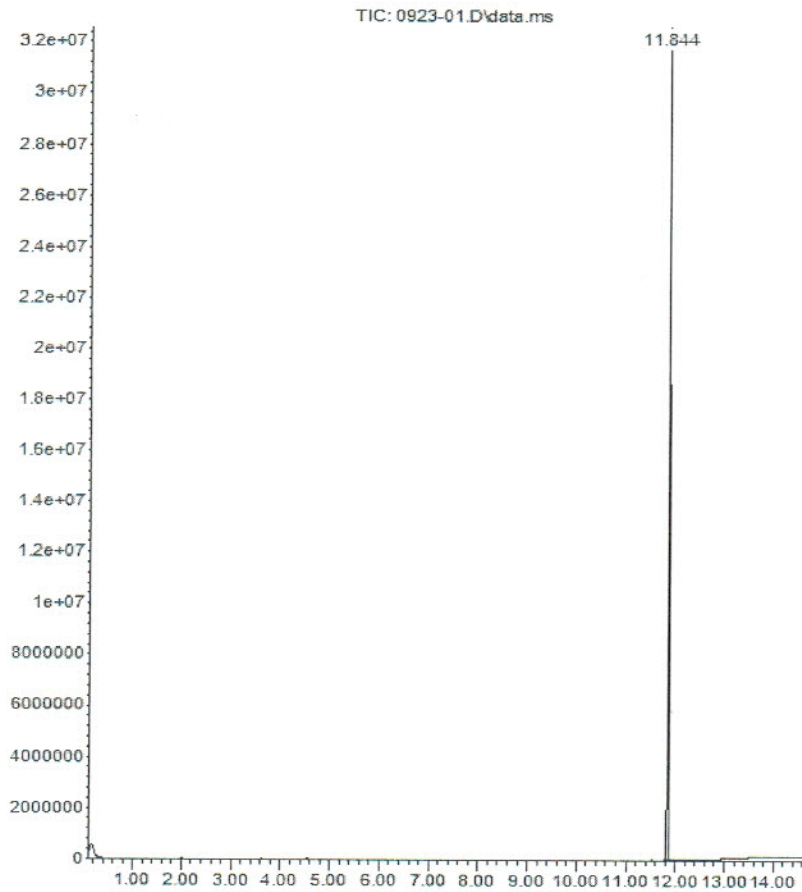
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

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



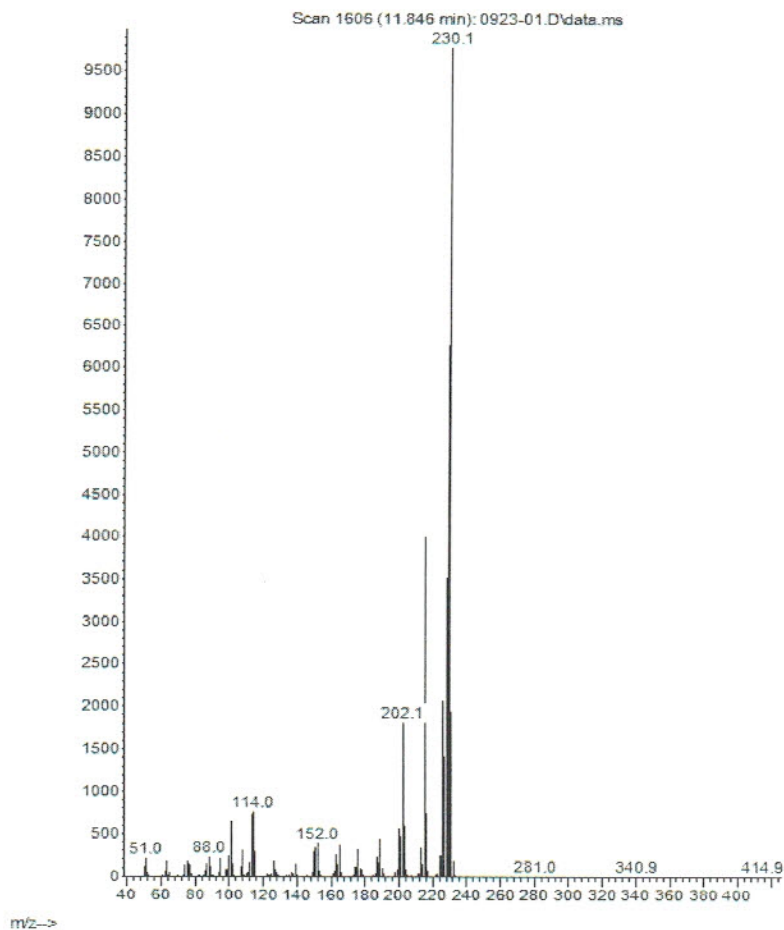
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

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 • 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

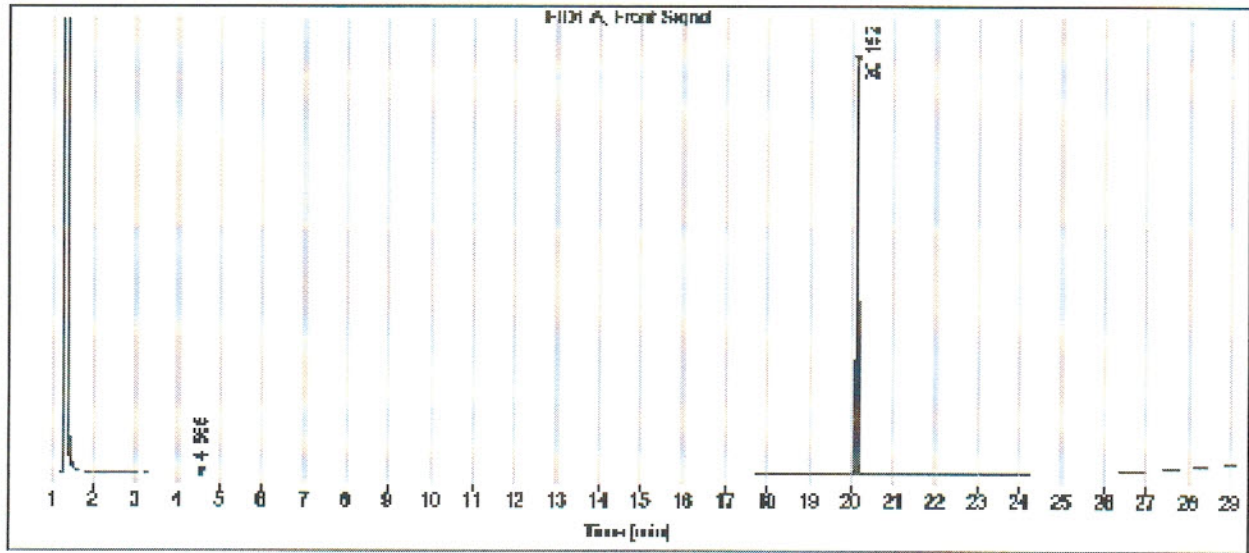


Gas

Data file: C:\CHEM3\
 Sample name: N-12683
 Instrument: GC 2
 Injection date: 9/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Sample type:
 Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
4.565	BB	0.0305	1.2408	0.5122	0.11
20.152	BB	0.0391	1171.9556	439.4599	99.89
		Sum	1173.1963		