

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

18-Feb-22

Run ID VARIAN1\_211208B

<b>Run Start Date:</b> 12/8/2021
<b>Analyst:</b> Josie Pickard
<b>Ical:</b> 0
<b>Column ID:</b> Rtx-502.2
<b>Comments:</b>

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
GAS210122	Unleaded Gasoline Comp. Std.(2.0uL)						6/7/2023
GASL211208	Low Gasoline Std.						6/7/2023
GQC201214	Gasoline Composite Mix (1.68uL)	1.68	ul			ICV	4/2/2030
GROS200921	Gro Stock Standard Mt.Gro	0.84	ul			Marker	3/28/2029
SHP0292	VOA 1:1 HCl:H2O Solution		3 drops			ALL	12/15/2025
TFT211208	TFT (1.05uL)						9/10/2029
TFTL211208	TFTL						9/10/2029
TFTM211208	TFTM						9/10/2029

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913447	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 12:3	1	R371516			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	221.786	221.786		168	0	0	3.55	20	0	132%	80	120	0%	S
Total Purgeable Hydrocarbons	A	ug/L	229.2002	229.2002		200	0	0	3.69	20	0	115%	80	120	0%	
Trifluorotoluene	S	ug/L	20.03532	20.03532		25	0	0	0.131	1	0	80%	80	120	0%	
GRO as Gasoline	X	ug/L	221.786	221.786		0	0	0	3.55	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913448	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 2:51:	1	R371516			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	19.36343	19.36343		16.8	0	0	3.55	20	0	115%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	22.86042	22.86042		20	0	0	3.69	20	0	114%	80	120	0%	
Trifluorotoluene	S	ug/L	1.200123	1.200123		1	0	0	0.131	1	0	120%	80	120	0%	
GRO as Gasoline	X	ug/L	19.36343	19.36343		0	0	0	3.55	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913449	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 3:25:	1	R371516		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	86.64822	86.64822		84	0	0	3.55	20	0	103%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	104.0397	104.0397		100	0	0	3.69	20	0	104%	80	120	0%	
Trifluorotoluene	S	ug/L	5.962319	5.962319		5	0	0	0.131	1	0	119%	80	120	0%	
GRO as Gasoline	X	ug/L	86.64822	86.64822		0	0	0	3.55	20	0	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913450	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 3:59:	1	R371516		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	171.1369	171.1369		168	0	0	3.55	20	0	102%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.5095	202.5095		200	0	0	3.69	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	22.84635	22.84635		25	0	0	0.131	1	0	91%	80	120	0%	
GRO as Gasoline	X	ug/L	171.1369	171.1369		0	0	0	3.55	20	0	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913451	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 4:33:	1	R371516		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	765.2867	765.2867		840	0	0	3.55	20	0	91%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	914.3724	914.3724		1000	0	0	3.69	20	0	91%	80	120	0%	
Trifluorotoluene	S	ug/L	85.18011	85.18011		100	0	0	0.131	1	0	85%	80	120	0%	
GRO as Gasoline	X	ug/L	765.2867	765.2867		0	0	0	3.55	20	0	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913452	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 5:08:	1	R371516		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	1488.75	1488.75		1680	0	0	3.55	20	0	89%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	1779.326	1779.326		2000	0	0	3.69	20	0	89%	80	120	0%	
Trifluorotoluene	S	ug/L	168.3369	168.3369		200	0	0	0.131	1	0	84%	80	120	0%	
GRO as Gasoline	X	ug/L	1488.75	1488.75		0	0	0	3.55	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913453	LCS_1208VAR7	HC-8015-GRO-	LCS		12/10/2021 6:16:	1	R371516		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	171.7639	171.7639		170	0	0	3.55	20	0	101%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	209.8679	209.8679		200	0	0	3.69	20	0	105%	70	130	0%	
Trifluorotoluene	S	ug/L	22.35714	22.35714		25	0	0	0.131	1	0	89%	70	130	0%	
GRO as Gasoline	X	ug/L	171.7639	171.7639		170	0	0	3.55	20	0	101%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14913454	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 6:50:	1	R371516		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	167.6036	167.6036		168	0	0	3.55	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	199.8128	199.8128		200	0	0	3.69	20	0	100%	80	120	0%	
Trifluorotoluene	S	ug/L	22.63931	22.63931		25	0	0	0.131	1	0	91%	80	120	0%	
GRO as Gasoline	X	ug/L	167.6036	167.6036		0	0	0	3.55	20	0	0%	0	0	0%	

<b>Data File</b>	<b>Sample Name</b>	<b>Method</b>	<b>Weight</b>	<b>Dil Factor</b>	<b>Amt Inj.</b>	<b>IS</b>	<b>Cal ID</b>
G:\Org\VAR\DAT\VAR120821_b\1208VAR.60r	CCV_1208VAR60r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.61r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.62r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.63r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.64r	CCV_1208VAR64r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.65r	CCV_1208VAR65r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.66r	CCV_1208VAR66r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.67r	CCV_1208VAR67r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.68r	CCV_1208VAR68r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.69r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.70r	LCS_1208VAR70r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.71r	CCV_1208VAR71r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.72r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0

File Name: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Version: 3

Creator: jmp  
 Description: Column Restex Rtx 502.2 12/8/21  
 Reason for change:

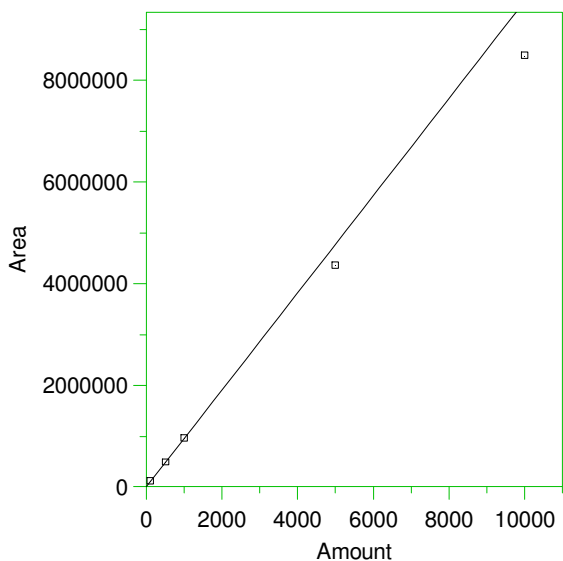
External standard calibration

Standard injection volume: 1  
 Standard sample weight: 1  
 Area reject threshold: 50  
 Reference peak area reject threshold: 15000  
 Amount units: nanograms  
 No default component

Method of calculating data point averages: Current update equal to cal data  
 Print calibration update report

All levels are normal data points.

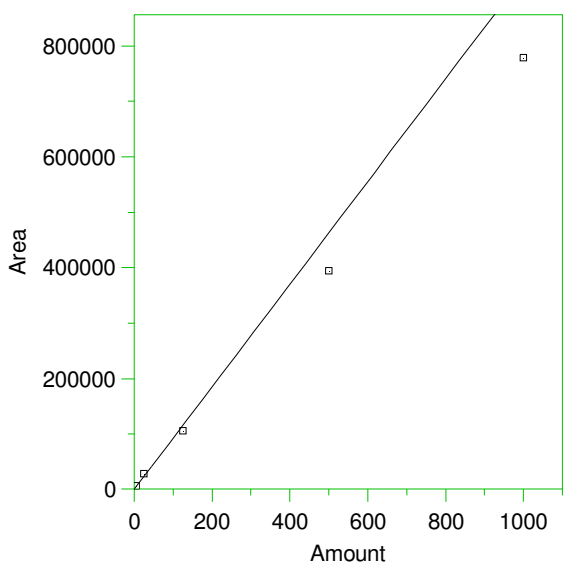
1 TPH



Expected retention time: 4.87 minutes  
 Search window: 0.12 minutes  
 No retention time reference component  
 Group number: 1  
 High alarm limit: 1000000  
 Low alarm limit: 1000  
 Component constant: 1  
 Single peak quantification by area  
 $Y = 955.6747 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9748226  
 Average error: 7.839%  
 Average CF: 955.6747  
 RSD: 10.216%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	109235.6	1092.356	14.302	Manual	12/10/2021 7:35:02 AM
2	500	497140.5	994.281	4.040	Manual	12/10/2021 7:35:21 AM
3	1000	967665.8	967.6658	1.255	Manual	12/10/2021 7:35:40 AM
4	5000	4369213	873.8426	-8.563	Manual	12/10/2021 7:35:59 AM
5	10000	8502283	850.2283	-11.034	Manual	12/10/2021 7:36:14 AM

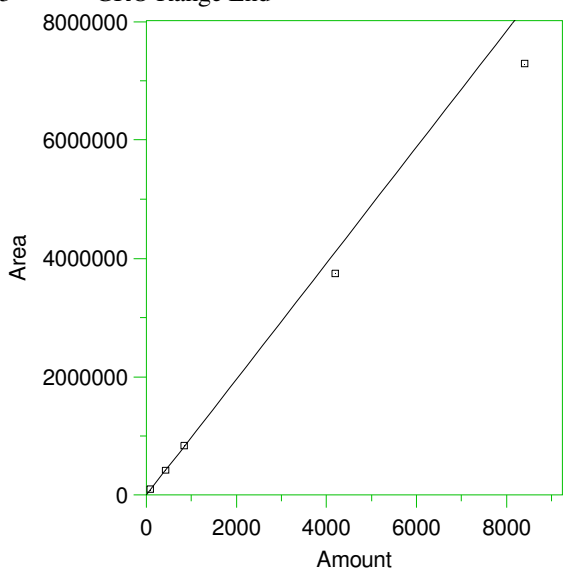
2 \*\*Trifluorotoluene



Expected retention time: 9.01 minutes  
 Search window: 0.15 minutes  
 No retention time reference component  
 Group number: 1  
 High alarm limit: 1000000  
 Low alarm limit: 1000  
 Component constant: 1  
 Single peak quantification by area  
 $Y = 925.8474 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9388383  
 Average error: 15.706%  
 Average CF: 925.8474  
 RSD: 18.136%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5	5556	1111.2	20.020	Manual	12/10/2021 7:33:35 AM
2	25	27601	1104.04	19.246	Manual	12/10/2021 7:28:46 AM
3	125	105761	846.088	-8.615	Manual	12/10/2021 7:29:43 AM
4	500	394319	788.638	-14.820	Manual	12/10/2021 7:31:11 AM
5	1000	779271	779.271	-15.832	Manual	12/10/2021 7:32:35 AM

3 GRO Range End

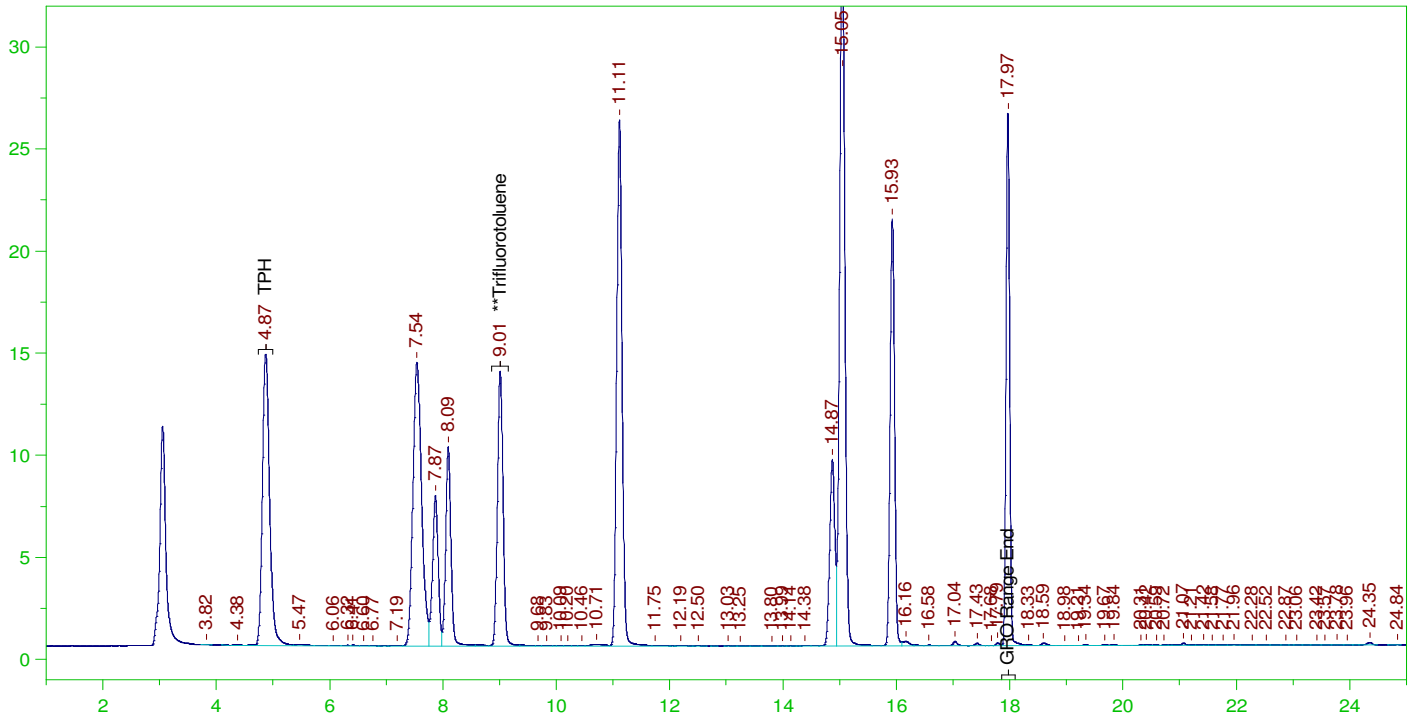


Expected retention time: 17.97 minutes  
 Search window: 0.12 minutes  
 No retention time reference component  
 Group number: 1  
 High alarm limit: 1000000  
 Low alarm limit: 1000  
 Component constant: 1  
 Single peak quantification by area  
 $Y = 979.9788 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9729225  
 Average error: 8.111%  
 Average CF: 979.9788  
 RSD: 10.665%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	84	94878.77	1129.509	15.259	Manual	12/10/2021 7:35:09 AM
2	420	424567.1	1010.874	3.153	Manual	12/10/2021 7:35:26 AM
3	840	838552.8	998.2772	1.867	Manual	12/10/2021 7:35:45 AM
4	4200	3749824	892.8152	-8.894	Manual	12/10/2021 7:36:05 AM
5	8400	7294716	868.4186	-11.384	Manual	12/10/2021 7:36:20 AM

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0060.RAW

CCV\_1208VAR60r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR60r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0060.RAW  
Date & Time Acquired: 12/10/2021 12:35:18 AM  
Method File: G:\Org\VAR\Methods\211208GROB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	100.177	80.14	-

GRO Area:1086728 GRO Amount: 1108.93  
TPH Area:1095204 TPH Amount: 1146.001

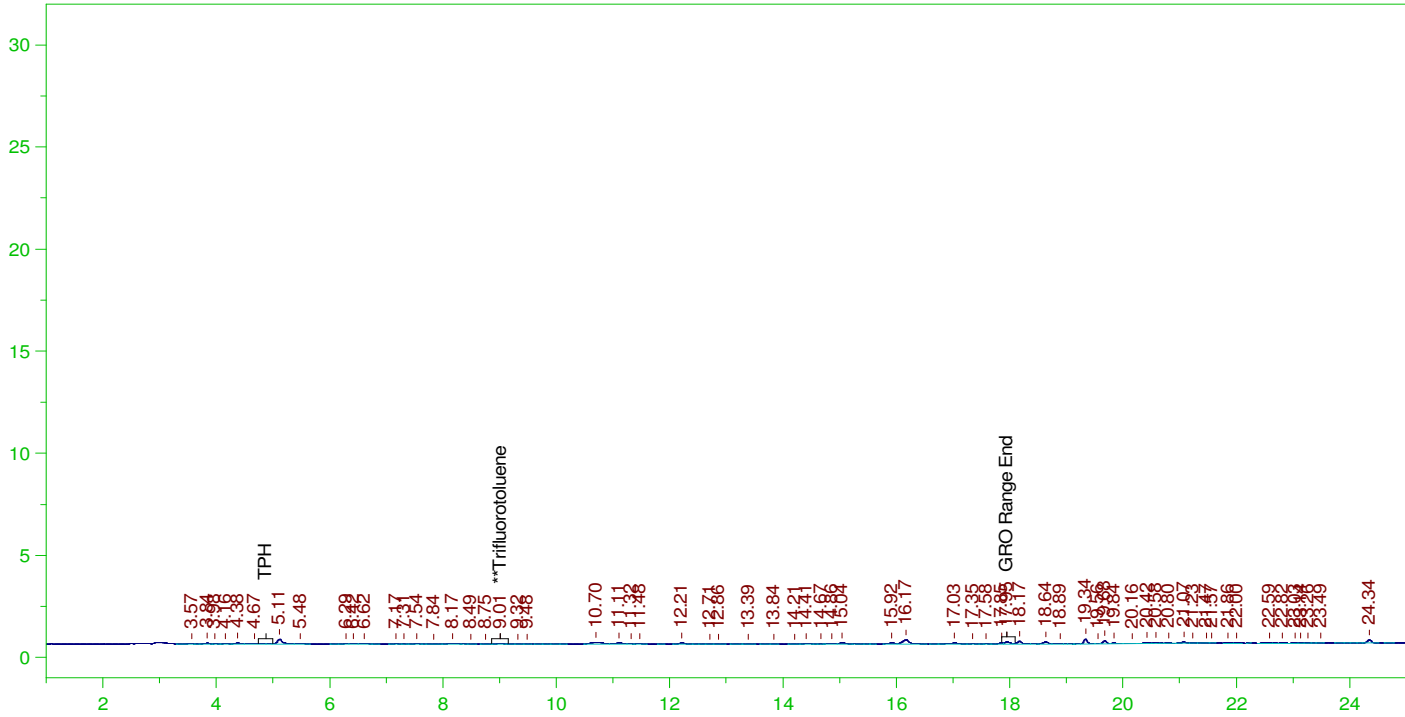
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0060.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1108.93	132.02	85-115
TPH	1000.	1146.	114.6	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.01	125.	100.177	80.14	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0061.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0061.RAW  
 Date & Time Acquired: 12/10/2021 1:09:21 AM  
 Method File: G:\Org\VAR\Methods\211208GROB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

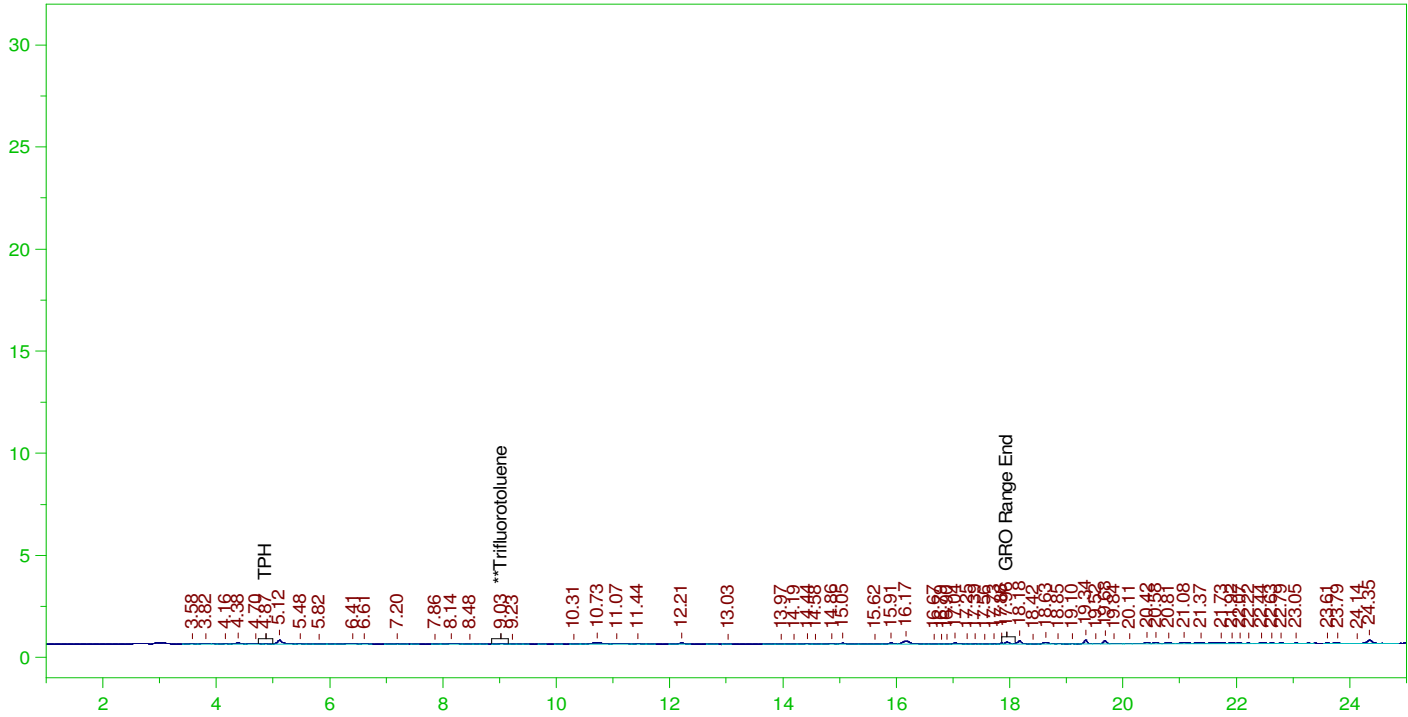
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.008	125.	.281	.23

GRO Area:12535.49 GRO Amount: 12.79159  
 TPH Area:22619.29 TPH Amount: 23.6684



G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0062.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0062.RAW  
 Date & Time Acquired: 12/10/2021 1:43:27 AM  
 Method File: G:\Org\VAR\Methods\211208GROB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

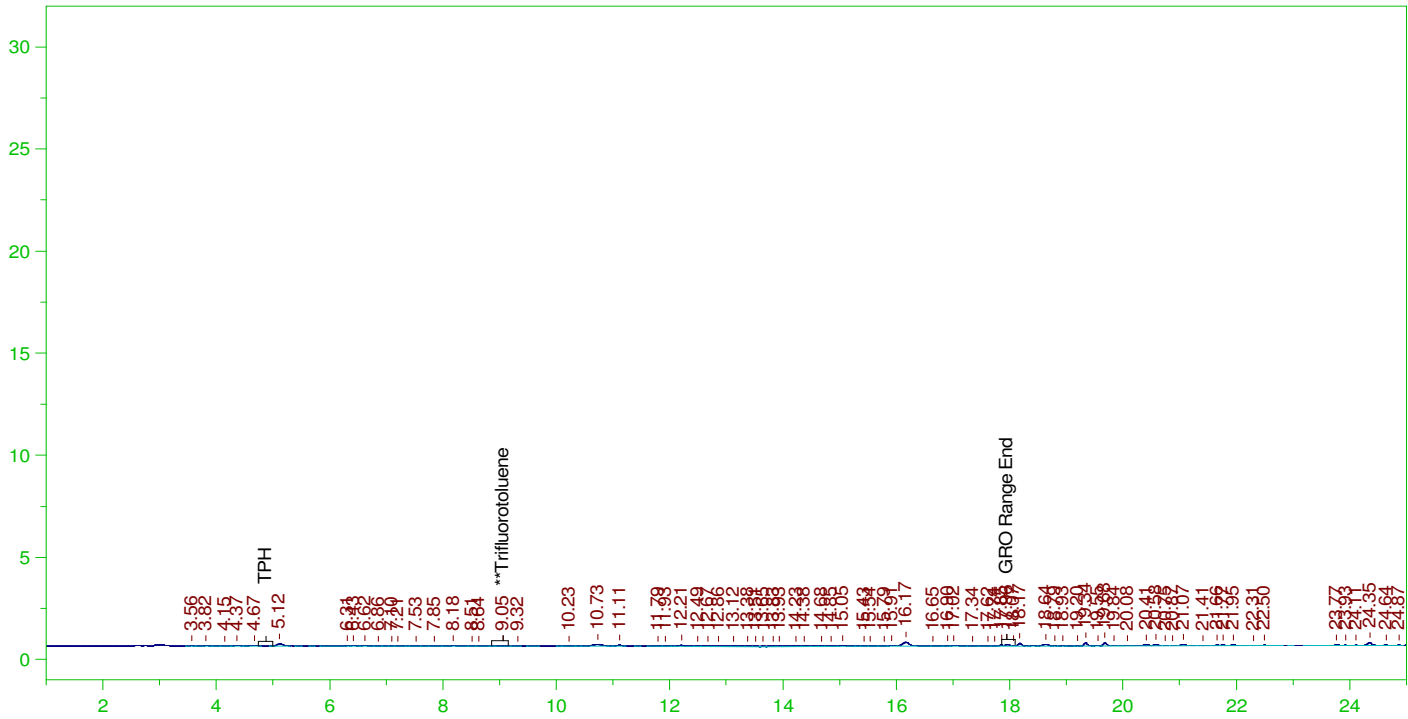
Mean RF for GRO: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.028	125.	.235	.19

GRO Area:12352.84 GRO Amount: 12.60521  
 TPH Area:24237.5 TPH Amount: 25.36166

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0063.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0063.RAW  
 Date & Time Acquired: 12/10/2021 2:17:34 AM  
 Method File: G:\Org\VAR\Methods\211208GROB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

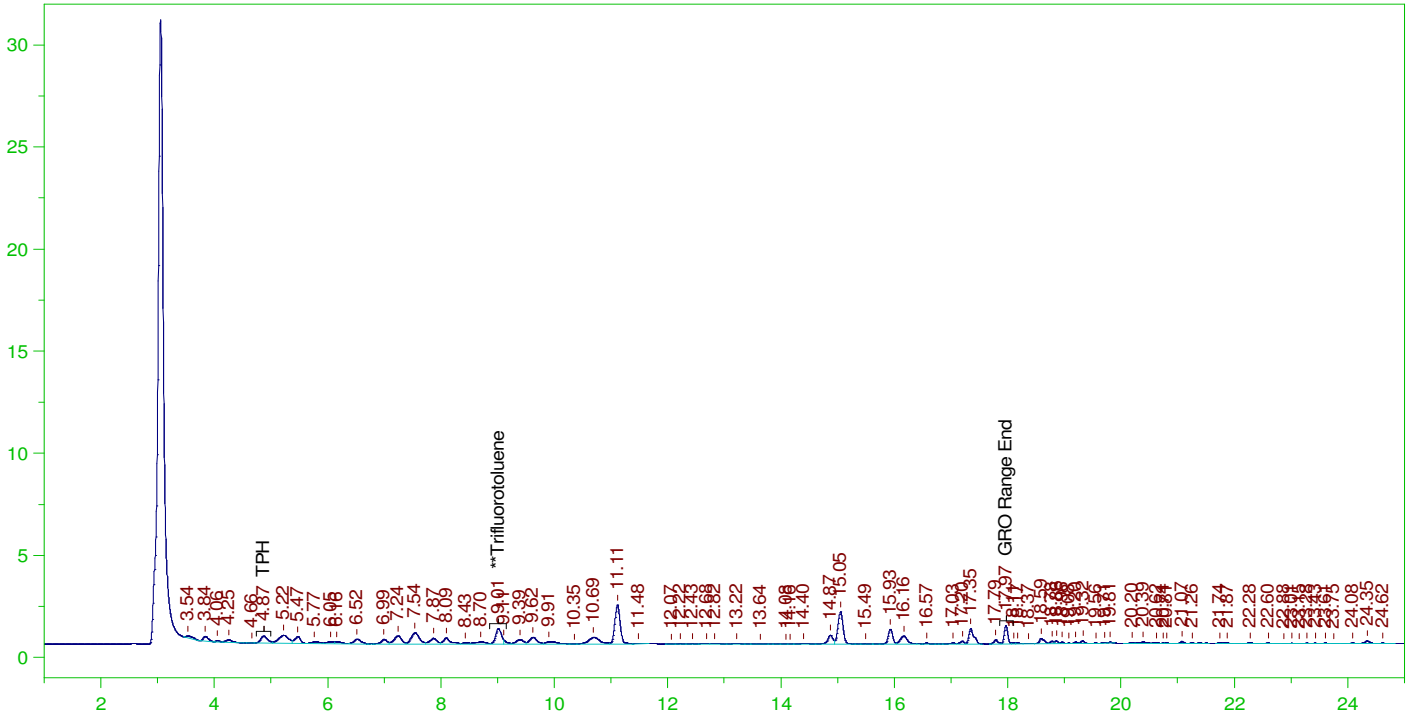
Mean RF for GRO: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.054	125.	.219	.18

GRO Area:12181.76 GRO Amount: 12.43063  
 TPH Area:21574.09 TPH Amount: 22.57472

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0064.RAW

CCV\_1208VAR64r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR64r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0064.RAW  
Date & Time Acquired: 12/10/2021 2:51:41 AM  
Method File: G:\Org\VAR\Methods\211208GROG1B%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.014	125.	6.001	4.8

GRO Area:94878.77 GRO Amount: 96.81716  
TPH Area:109235.6 TPH Amount: 114.3021

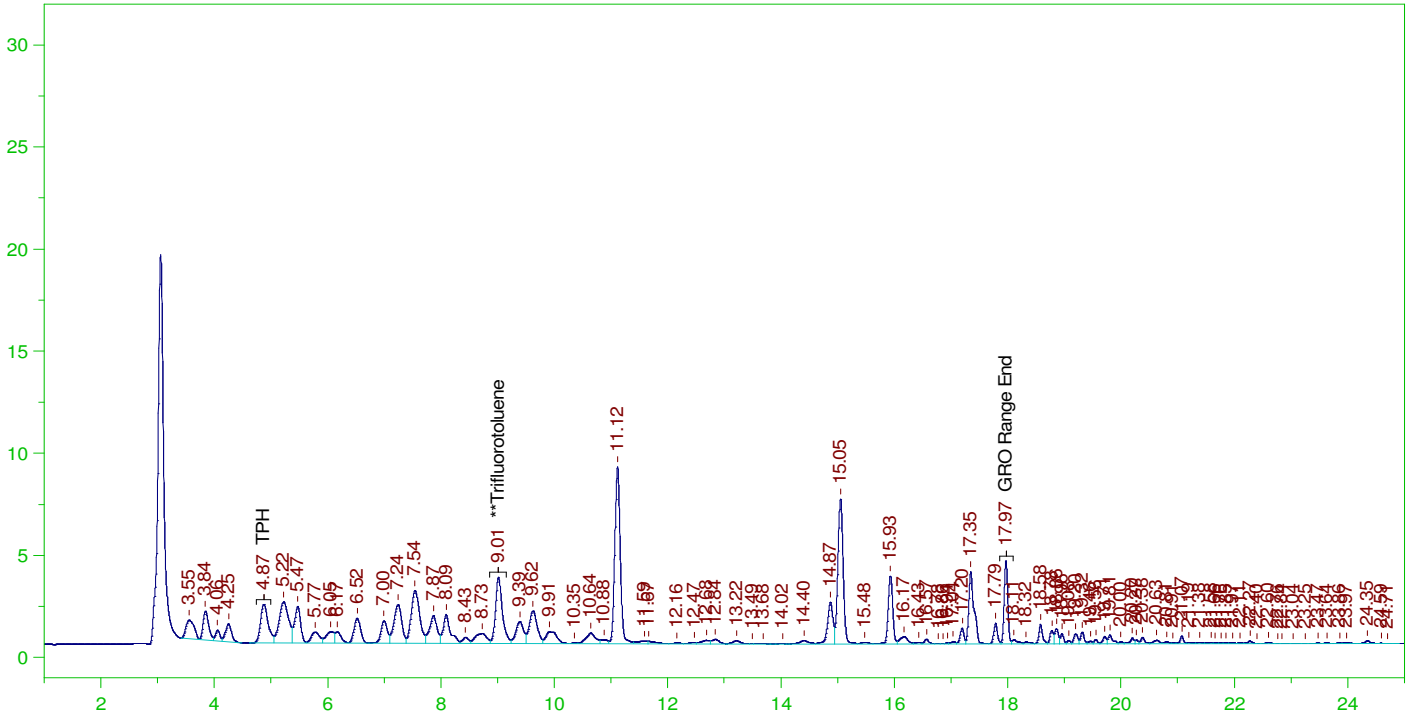
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0064.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	96.82	11.53	85-115
TPH	1000.	114.3	11.43	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.014	125.	6.001	4.8	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0065.RAW

CCV\_1208VAR65r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR65r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0065.RAW  
Date & Time Acquired: 12/10/2021 3:25:47 AM  
Method File: G:\Org\VAR\Methods\211208GROG2B%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.015	125.	29.812	23.85	-

GRO Area:424567.1 GRO Amount: 433.2411  
TPH Area:497140.5 TPH Amount: 520.1984

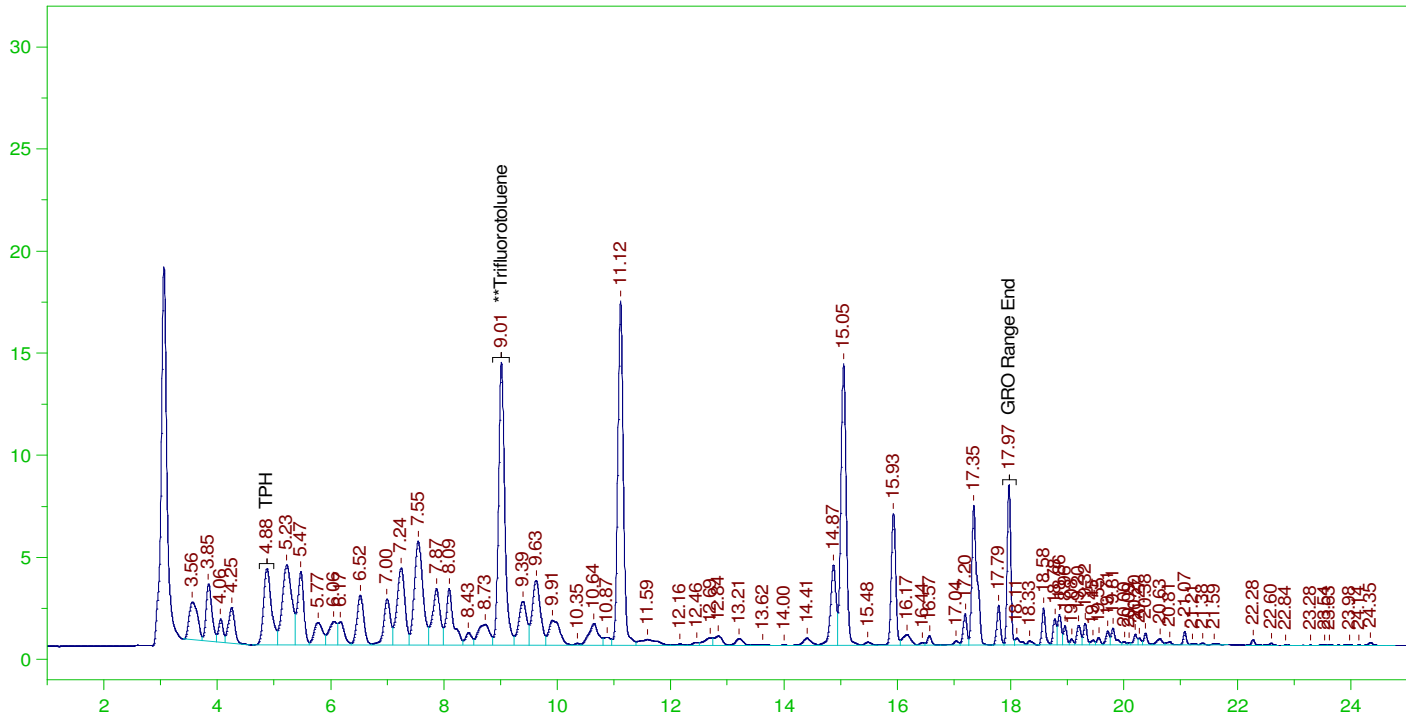
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0065.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	433.24	51.58	85-115
TPH	1000.	520.2	52.02	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.015	125.	29.812	23.85	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0066.RAW

CCV\_1208VAR66r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR66r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0066.RAW  
Date & Time Acquired: 12/10/2021 3:59:53 AM  
Method File: G:\Org\VAR\Methods\211208GROG3B%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	114.232	91.39	-

GRO Area:838552.8 GRO Amount: 855.6846  
TPH Area:967665.8 TPH Amount: 1012.547

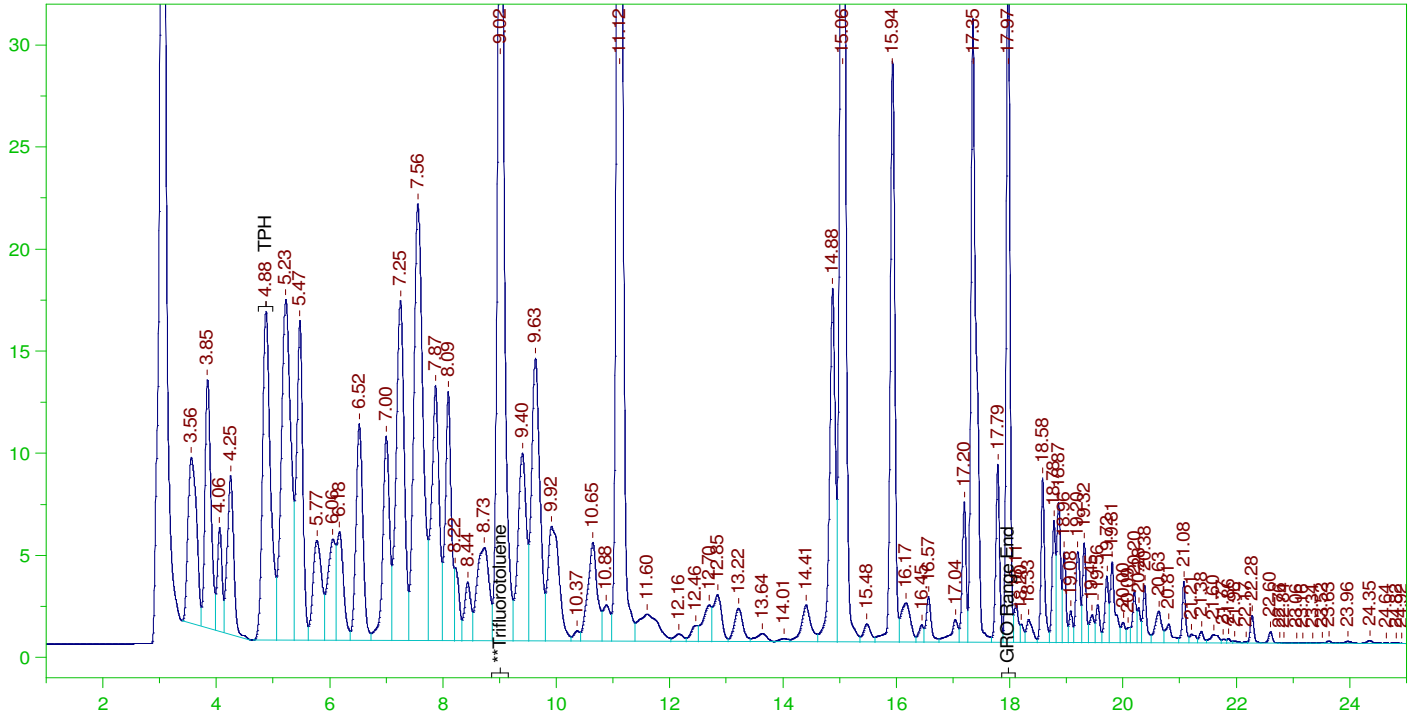
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0066.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	855.68	101.87	85-115
TPH	1000.	1012.55	101.25	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.013	125.	114.232	91.39	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0067.RAW

CCV\_1208VAR67r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR67r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0067.RAW  
Date & Time Acquired: 12/10/2021 4:33:58 AM  
Method File: G:\Org\VAR\Methods\211208GROG4B%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.016	125.	425.901	340.72	-

GRO Area:3749824 GRO Amount: 3826.434  
TPH Area:4369213 TPH Amount: 4571.862

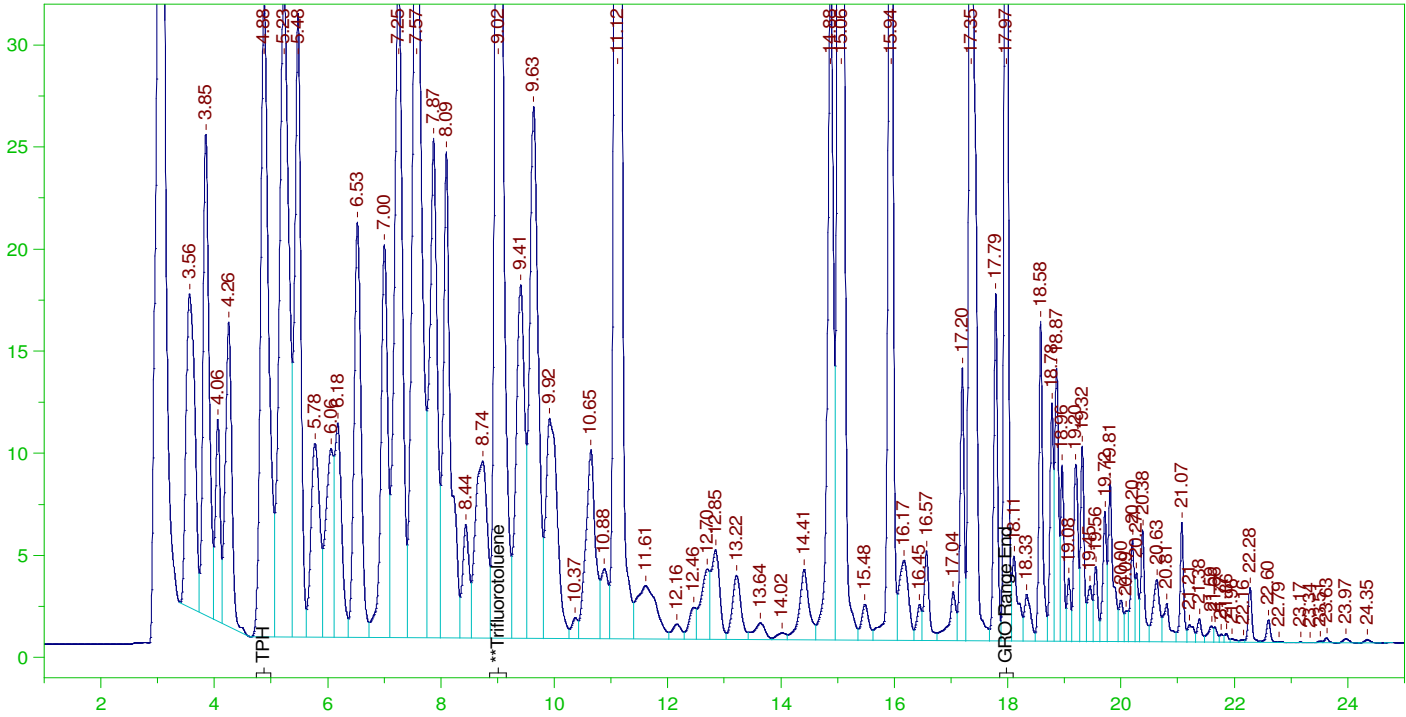
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0067.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	3826.43	455.53	85-115
TPH	1000.	4571.86	457.19	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.016	125.	425.901	340.72	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0068.RAW

CCV\_1208VAR68r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR68r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0068.RAW  
Date & Time Acquired: 12/10/2021 5:08:06 AM  
Method File: G:\Org\VAR\Methods\211208GROG5B%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.017	125.	841.684	673.35

GRO Area:7294716 GRO Amount: 7443.749  
TPH Area:8502283 TPH Amount: 8896.629

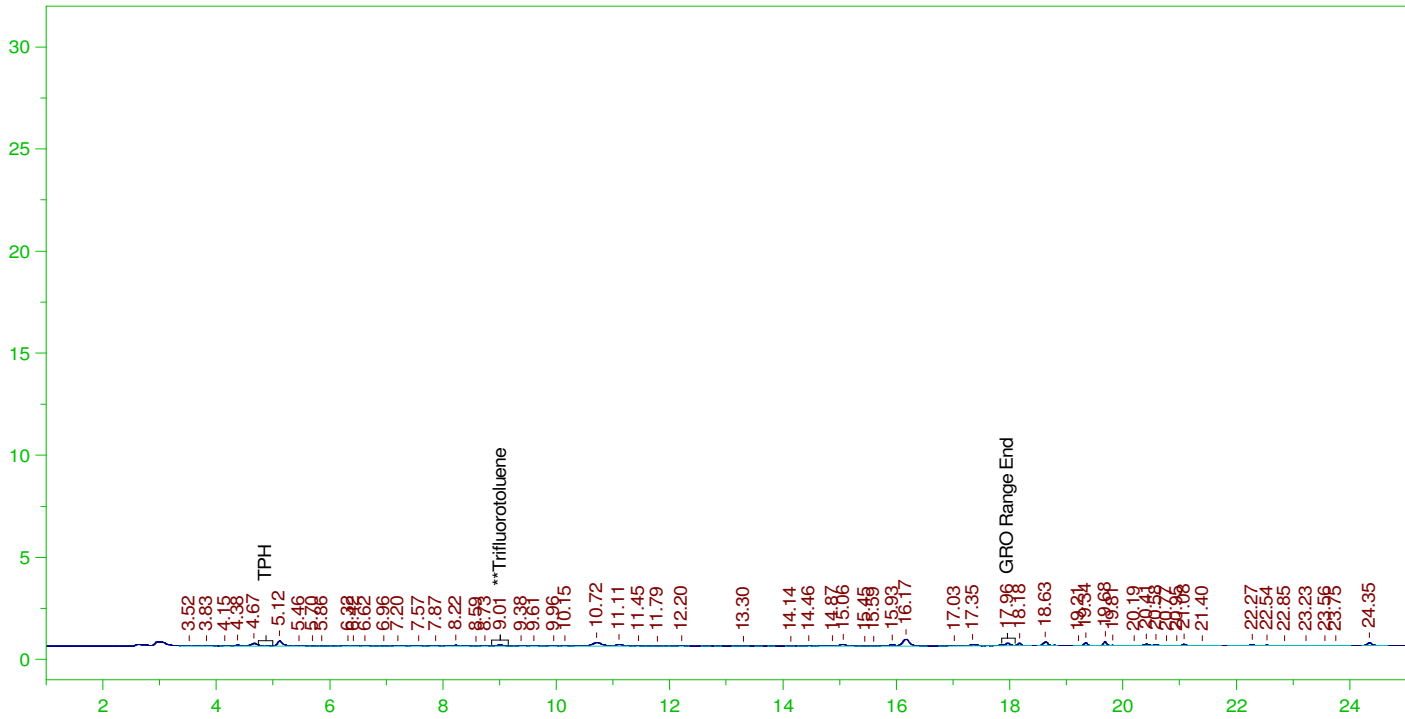
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0068.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	7443.75	886.16	85-115
TPH	1000.	8896.63	889.66	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.017	125.	841.684	673.35	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0069.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0069.RAW  
 Date & Time Acquired: 12/10/2021 5:42:13 AM  
 Method File: G:\Org\VAR\Methods\211208GROB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

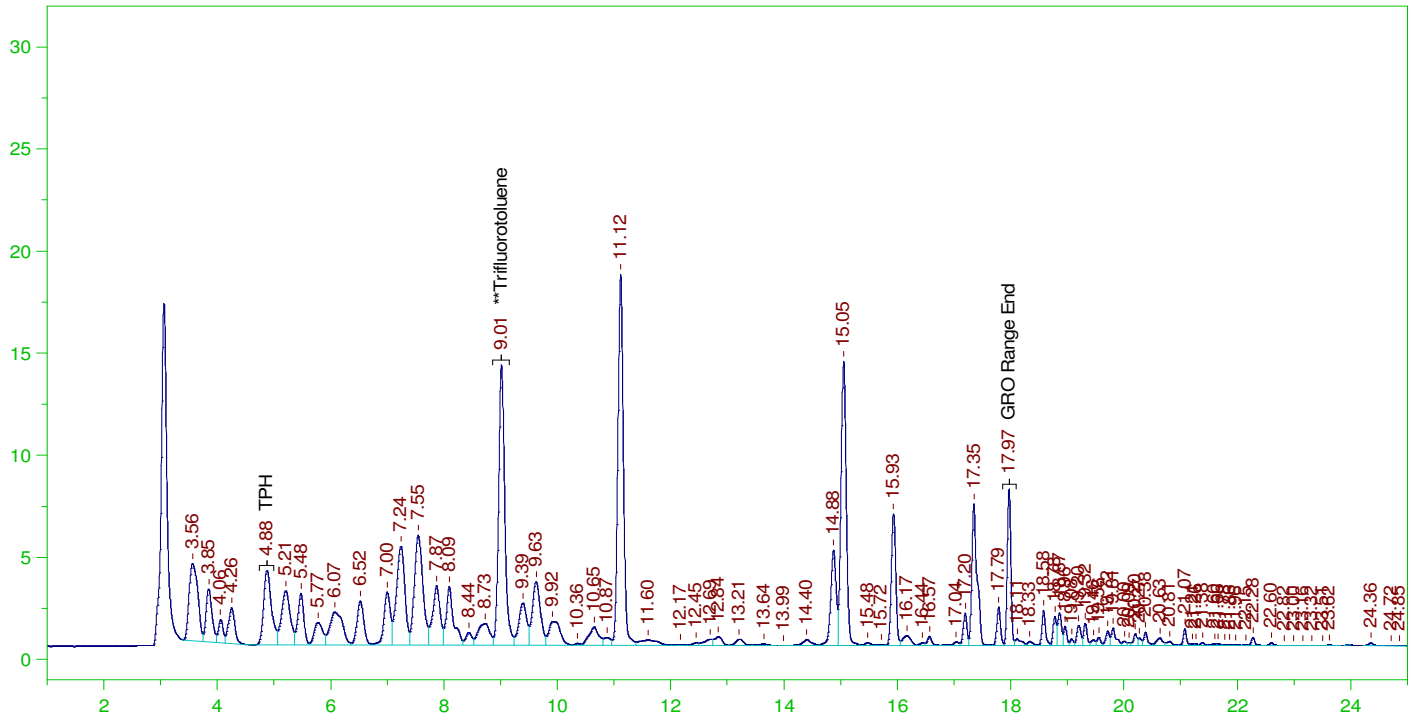
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	125.	.652	.52

GRO Area:18467.79 GRO Amount: 18.84509  
 TPH Area:28108.1 TPH Amount: 29.41179



G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0070.RAW

LCS\_1208VAR70r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS\_1208VAR70r, GQC ;1208VAR ,  
 Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0070.RAW  
 Date & Time Acquired: 12/10/2021 6:16:20 AM  
 Method File: G:\Org\VAR\Methods\211208GROICVB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 5 Dilution: 1 S.A.: 1

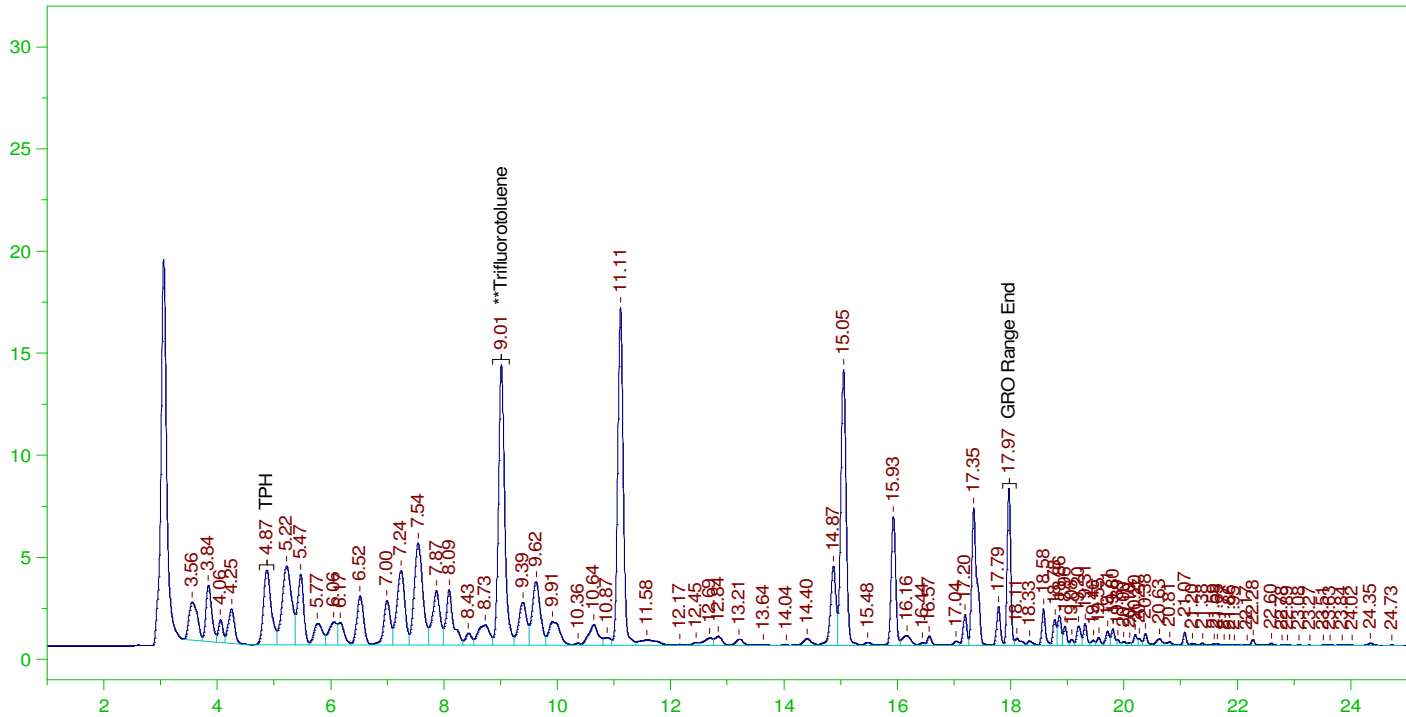
Mean RF for GRO: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.015	25.	22.357	89.43

GRO Area:841624.8 GRO Amount: 171.7639  
 TPH Area:1002827 TPH Amount: 209.8679

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0071.RAW

CCV\_1208VAR71r, GQC ;1208VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_1208VAR71r, GQC ;1208VAR ,  
Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0071.RAW  
Date & Time Acquired: 12/10/2021 6:50:26 AM  
Method File: G:\Org\VAR\Methods\211208GROCCVB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	125.	113.197	90.56	-

GRO Area:821239.7 GRO Amount: 838.0178  
TPH Area:954780.1 TPH Amount: 999.064

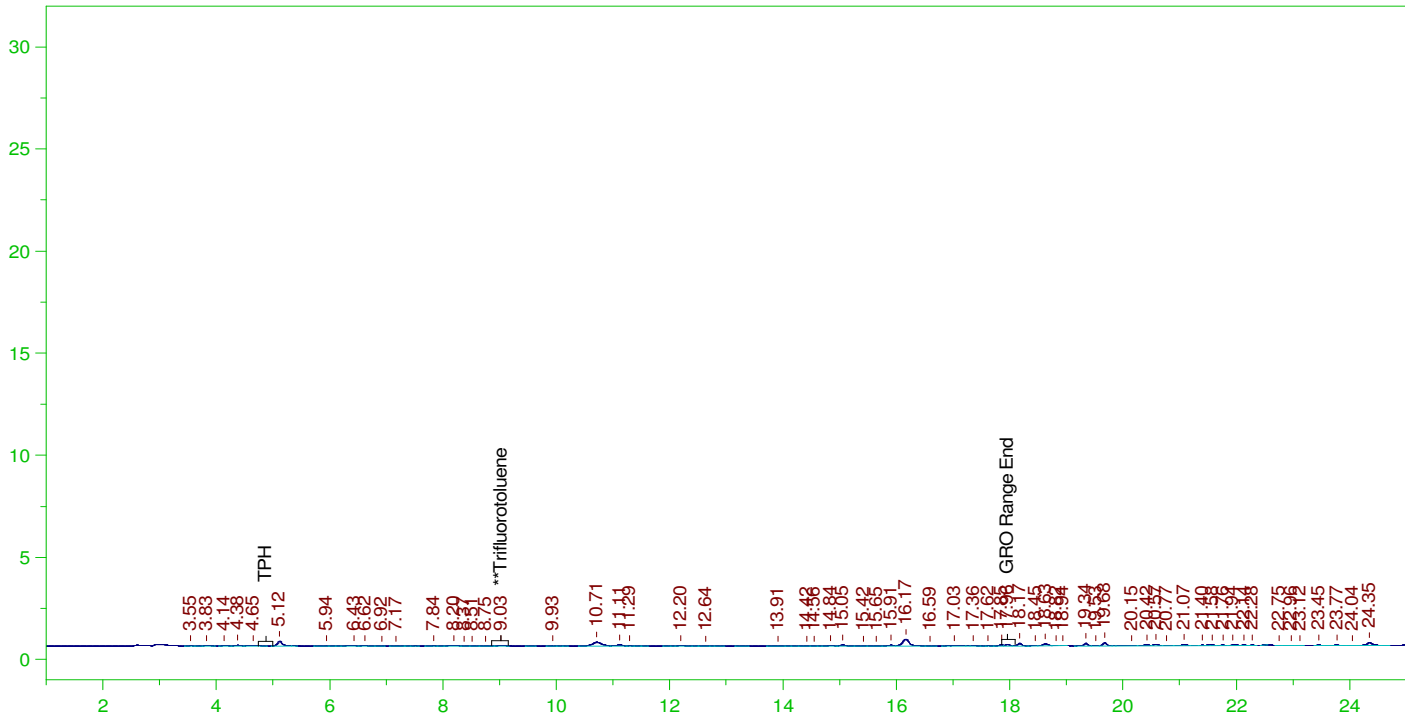
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0071.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	838.02	99.76	85-115
TPH	1000.	999.06	99.91	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.012	125.	113.197	90.56	85-115

G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0072.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR120821\_b\1208VARB.0072.RAW  
 Date & Time Acquired: 12/10/2021 7:24:31 AM  
 Method File: G:\Org\VAR\Methods\211208GROB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.026	125.	.179	.14

GRO Area:13332.14 GRO Amount: 13.60451  
 TPH Area:23127.14 TPH Amount: 24.19981

Write Sequence	Insert Entries(Have the first cell for entries selecte	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
Data File	Sample Name							
G:\Org\VAR\DAT\VAR120821_b\1208VAR.60r	CCV_1208VAR60r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.61r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.62r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.63r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.64r	CCV_1208VAR64r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.65r	CCV_1208VAR65r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.66r	CCV_1208VAR66r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.67r	CCV_1208VAR67r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.68r	CCV_1208VAR68r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.69r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.70r	LCS_1208VAR70r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.71r	CCV_1208VAR71r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.72r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None

*Josie M Pickard*  
Chemist

Digitally signed by  
Josie Pickard  
Date: 2022.02.19 09:19:25 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

26-Feb-22

Run ID VARIAN1\_220223A

<b>Run Start Date:</b> 2/23/2022
<b>Analyst:</b> Josie Pickard
<b>Ical:</b> 0
<b>Column ID:</b> Rtx-502.2
<b>Comments:</b> Evaluated to include numbers that are above the MDL and below the LOD per QA and client request

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
GAS220104	Unleaded Gasoline Comp. Std.(2.0uL)	2	ul			CCV	6/7/2023
GQC211012	Gasoline Composite Mix (1.68uL)	1.68	ul			LCS, MS/M	4/2/2030
GROS200921	Gro Stock Standard Mt.Gro	0.84	ul			Marker	3/28/2029
SHP0292	VOA 1:1 HCl:H2O Solution	3	drops			CCV, LCS,	12/15/2025
TFT220222	TFT (1.05uL)	1.05	ul			Surr	9/10/2029

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
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15051284	CCV_0223VAR	HC-8015-GRO-	SAMP		2/23/2022 11:06:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	188.9951	188.9951		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	195.2932	195.2932		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.47508	19.47508		25	0	0	0.147	1	0	78%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
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15051285	CCV_0223VAR	HC-8015-GRO-	CCV		2/23/2022 11:40:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	167.5128	167.5128		168	0	0	2.01	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	201.0206	201.0206		200	0	0	3.08	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	22.27121	22.27121		25	0	0	0.147	1	0	89%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051286	LCS_0223VAR0	HC-8015-GRO-	LCS		2/23/2022 12:14:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	161.6921	161.6921		170	0	0	2.01	20	0	95%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	195.2568	195.2568		200	0	0	3.08	20	0	98%	70	130	0%	
Trifluorotoluene	S	ug/L	21.723	21.723		25	0	0	0.147	1	0	87%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051287	MBLK_0223VA	HC-8015-GRO-	MBLK		2/23/2022 1:21:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.29172	19.29172		25	0	0	0.147	1	0	77%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051288	B22021435-007	HC-8015-GRO-	SAMP		2/23/2022 2:29:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.255296	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.53376	18.53376		25	0	0	0.147	1	0	74%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051289	B22021435-003	HC-8015-GRO-	SAMP		2/23/2022 3:37:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.25204	18.25204		25	0	0	0.147	1	0	73%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051290	B22021435-009	HC-8015-GRO-	SAMP		2/23/2022 4:11:5	1	R375111		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					
15051290	B22021435-009	HC-8015-GRO-	SAMP		2/23/2022 4:11:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.273117	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.5206	19.5206		25	0	0	0.147	1	0	78%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051291	B22021435-014	HC-8015-GRO-	SAMP		2/23/2022 4:45:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.45954	19.45954		25	0	0	0.147	1	0	78%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051292	B22021435-019	HC-8015-GRO-	SAMP		2/23/2022 5:20:0	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.41768	19.41768		25	0	0	0.147	1	0	78%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051293	B22021435-024	HC-8015-GRO-	SAMP		2/23/2022 5:53:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.04408	19.04408		25	0	0	0.147	1	0	76%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051294	B22021435-029	HC-8015-GRO-	SAMP		2/23/2022 6:27:5	1	R375111		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					
15051294	B22021435-029	HC-8015-GRO-	SAMP		2/23/2022 6:27:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.61065	19.61065		25	0	0	0.147	1	0	78%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051295	B22021435-034	HC-8015-GRO-	SAMP		2/23/2022 7:02:0	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.15153	19.15153		25	0	0	0.147	1	0	77%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051296	B22021435-001	HC-8015-GRO-	SAMP		2/23/2022 7:36:0	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.60162	18.60162		25	0	0	0.147	1	0	74%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051297	B22021435-007	HC-8015-GRO-	MS		2/23/2022 8:44:0	1	R375111		2E+07	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	164.3176	164.3176		170	0	0	2.01	20	0	97%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	199.2114	199.2114		200	0	0	3.08	20	0	100%	70	130	0%	
Trifluorotoluene	S	ug/L	22.24071	22.24071		25	0	0	0.147	1	0	89%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051298	B22021435-007	HC-8015-GRO-	MSD		2/23/2022 9:18:1	1	R375111		2E+07	2E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q



Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051298	B22021435-007	HC-8015-GRO-	MSD		2/23/2022 9:18:1	1	R375111		2E+07	2E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	161.4341	161.4341		170	0	164.3176	2.01	20	0	95%	78	122	2%	
Total Purgeable Hydrocarbons	A	ug/L	195.1022	195.1022		200	0	199.2114	3.08	20	0	98%	70	130	2%	
Trifluorotoluene	S	ug/L	22.14751	22.14751		25	0	0	0.147	1	0	89%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051299	CCV_0223VAR	HC-8015-GRO-	SAMP		2/23/2022 10:26:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	190.7516	190.7516		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	196.6922	196.6922		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.89424	19.89424		25	0	0	0.147	1	0	80%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051300	CCV_0223VAR	HC-8015-GRO-	CCV		2/23/2022 11:00:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	169.9297	169.9297		168	0	0	2.01	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	204.7341	204.7341		200	0	0	3.08	20	0	102%	80	120	0%	
Trifluorotoluene	S	ug/L	22.13556	22.13556		25	0	0	0.147	1	0	89%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051301	LCS_0223VAR2	HC-8015-GRO-	LCS		2/23/2022 11:34:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	166.0596	166.0596		170	0	0	2.01	20	0	98%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	200.3147	200.3147		200	0	0	3.08	20	0	100%	70	130	0%	
Trifluorotoluene	S	ug/L	22.3801	22.3801		25	0	0	0.147	1	0	90%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051302	MBLK_0223VA	HC-8015-GRO-	MBLK		2/24/2022 12:42:	1	R375111		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					
15051302	MBLK_0223VA	HC-8015-GRO-	MBLK		2/24/2022 12:42:	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.1939	19.1939		25	0	0	0.147	1	0	77%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051303	B22021435-006	HC-8015-GRO-	SAMP		2/24/2022 1:16:3	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.74493	18.74493		25	0	0	0.147	1	0	75%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051304	B22021435-012	HC-8015-GRO-	SAMP		2/24/2022 2:24:3	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.05472	19.05472		25	0	0	0.147	1	0	76%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051305	B22021435-017	HC-8015-GRO-	SAMP		2/24/2022 3:32:4	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	3.754654	3.754654		0	0	0	2.01	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	31.77784	31.77784		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.09025	19.09025		25	0	0	0.147	1	0	76%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051306	B22021435-022	HC-8015-GRO-	SAMP		2/24/2022 4:40:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

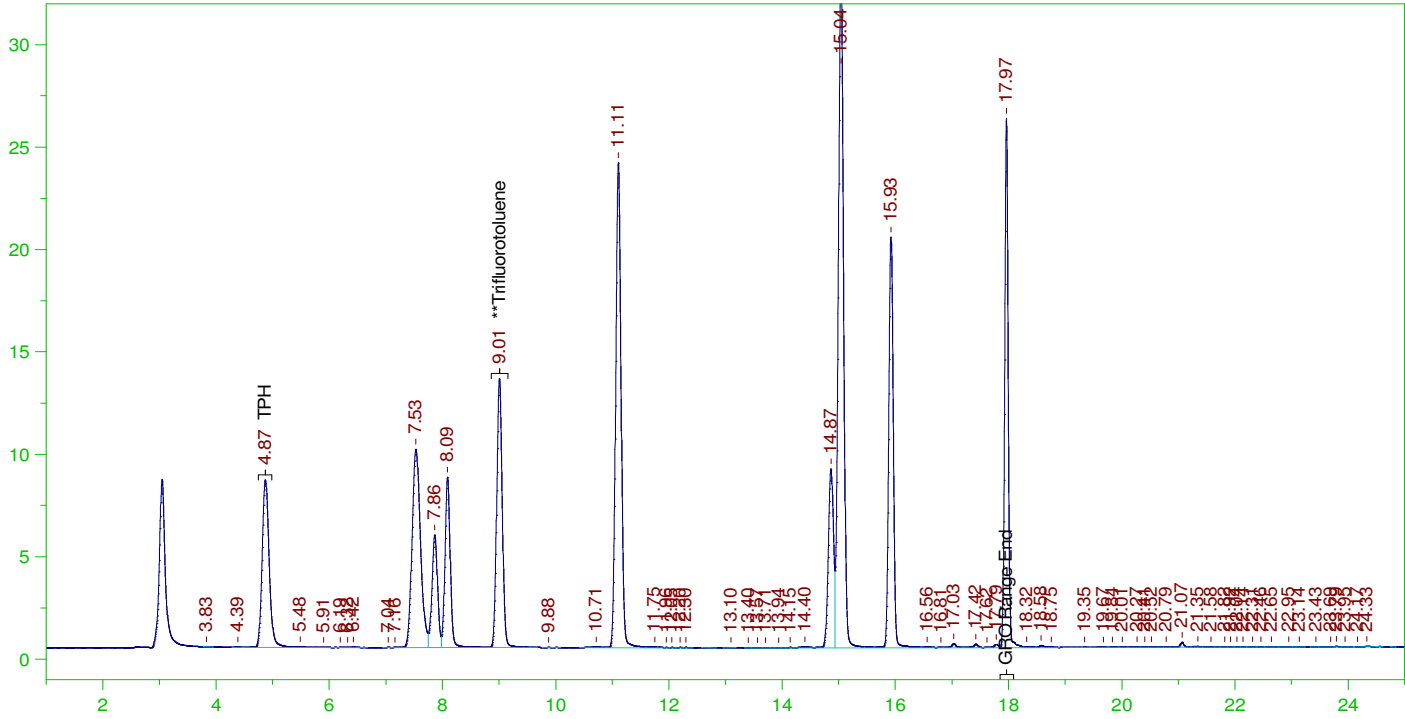
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051306	B22021435-022	HC-8015-GRO-	SAMP		2/24/2022 4:40:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	2.129085	2.129085		0	0	0	2.01	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	3.024471	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.18946	19.18946		25	0	0	0.147	1	0	77%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051307	B22021435-027	HC-8015-GRO-	SAMP		2/24/2022 5:48:5	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.93285	18.93285		25	0	0	0.147	1	0	76%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051308	B22021435-032	HC-8015-GRO-	SAMP		2/24/2022 6:57:0	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	5.203498	5.203498		0	0	0	2.01	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	54.98388	54.98388		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	18.81807	18.81807		25	0	0	0.147	1	0	75%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051309	CCV_0223VAR	HC-8015-GRO-	SAMP		2/24/2022 8:05:0	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	188.7314	188.7314		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	194.467	194.467		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.624	19.624		25	0	0	0.147	1	0	78%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15051310	CCV_0223VAR	HC-8015-GRO-	CCV		2/24/2022 8:39:0	1	R375111		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					
15051310	CCV_0223VAR	HC-8015-GRO-	CCV		2/24/2022 8:39:0	1	R375111		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	166.1424	166.1424		166	0	0	2.01	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	200.3679	200.3679		200	0	0	3.08	20	0	100%	80	120	0%	
Trifluorotoluene	S	ug/L	22.25795	22.25795		25	0	0	0.147	1	0	89%	80	120	0%	

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\VAR\DAT\VAR022322 b\0223VAR.01r	CCV_0223VAR01r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.02r	CCV_0223VAR02r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.03r	LCS_0223VAR03r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.04r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.05r	MBLK_0223VAR05r, QC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.06r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.07r	B22021435-007D ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.08r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.09r	B22021435-003A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.10r	B22021435-009A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.11r	B22021435-014A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.12r	B22021435-019A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.13r	B22021435-024A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.14r	B22021435-029A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.15r	B22021435-034A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.16r	B22021435-001G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.17r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.18r	B22021435-007DMS, GQC ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.19r	B22021435-007DMSD, GQC ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.20r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.21r	CCV_0223VAR21r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.22r	CCV_0223VAR22r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.23r	LCS_0223VAR23r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.24r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.25r	MBLK_0223VAR25r, QC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.26r	B22021435-006G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.27r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.28r	B22021435-012G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.29r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.30r	B22021435-017G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.31r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.32r	B22021435-022G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.33r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.34r	B22021435-027G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.35r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.36r	B22021435-032G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.37r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.38r	CCV_0223VAR38r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.39r	CCV_0223VAR39r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0
G:\Org\VAR\DAT\VAR022322 b\0223VAR.40r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0001.RAW

CCV\_0223VAR01r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0223VAR01r, GQC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0001.RAW  
Date & Time Acquired: 2/23/2022 11:06:09 AM  
Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	125.	97.375	77.9

C6 to C10 Area:926055.9 C6 to C10 Amount: 944.9754  
TPH Area:933183.8 TPH Amount: 976.466

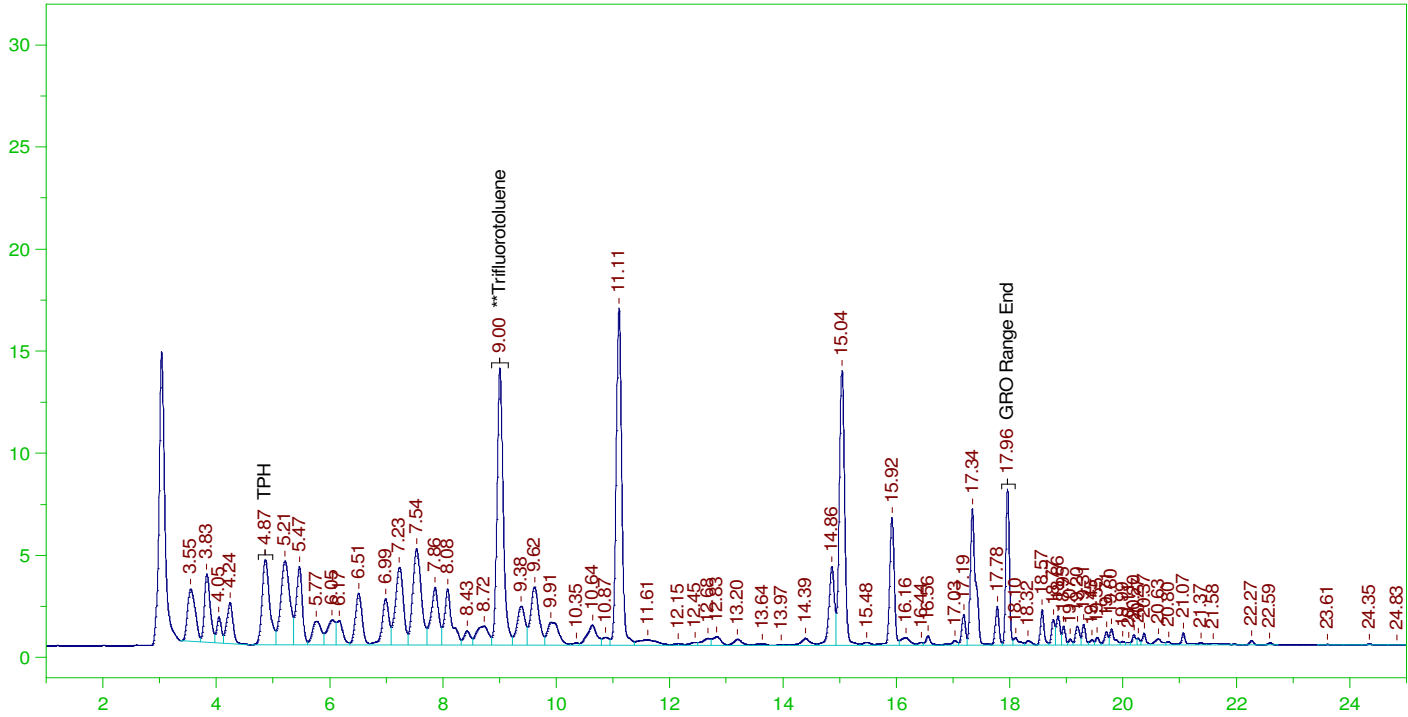
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0001.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	944.98	112.5	85-115
TPH	1000.	976.47	97.65	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.007	125.	97.375	77.9	85-115

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0002.RAW

CCV\_0223VAR02r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0223VAR02r, GQC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0002.RAW  
Date & Time Acquired: 2/23/2022 11:40:05 AM  
Method File: G:\Org\VAR\Methods\211208GCCV0223\_02DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.005	125.	111.356	89.08	-

C6 to C10 Area:820794.9 C6 to C10 Amount: 837.5639  
TPH Area:960551.3 TPH Amount: 1005.103

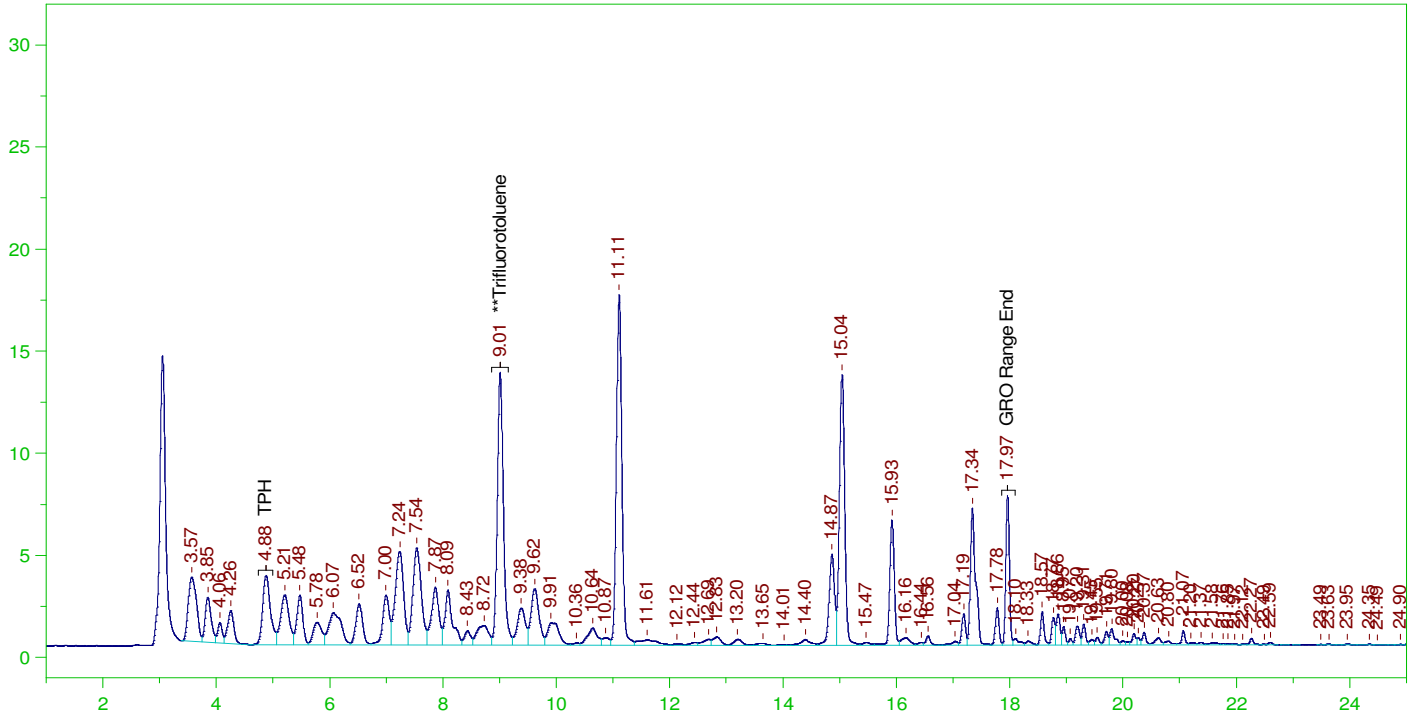
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0002.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	837.56	99.71	85-115
TPH	1000.	1005.1	100.51	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.005	125.	111.356	89.08	85-115

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0003.RAW

LCS\_0223VAR03r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS\_0223VAR03r, GQC ;0223VAR ,  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0003.RAW  
 Date & Time Acquired: 2/23/2022 12:14:03 PM  
 Method File: G:\Org\VAR\Methods\211208GLCS0223\_03DoDB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

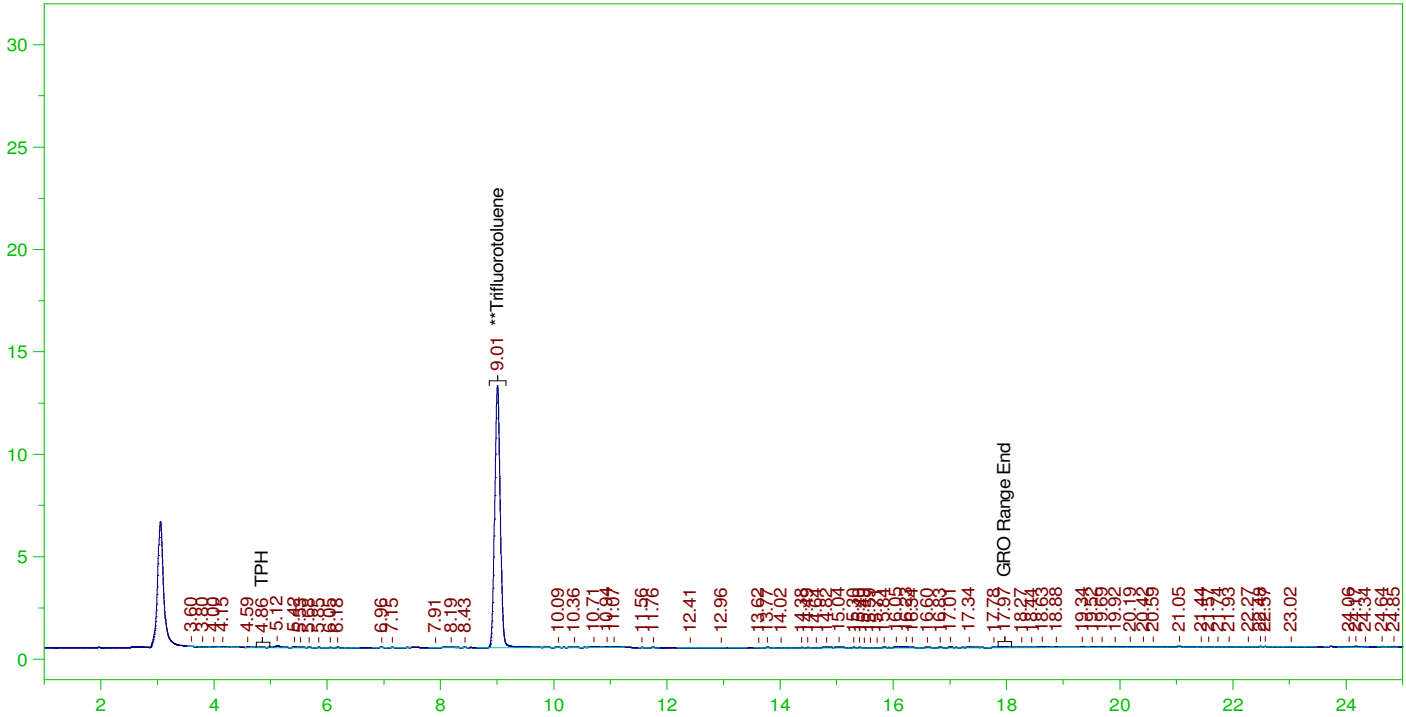
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	25.	21.723	86.89

C6 to C10 Area: 792274.2 C6 to C10 Amount: 161.6921  
 TPH Area: 933010 TPH Amount: 195.2568



G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0004.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0004.RAW  
 Date & Time Acquired: 2/23/2022 12:48:00 PM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

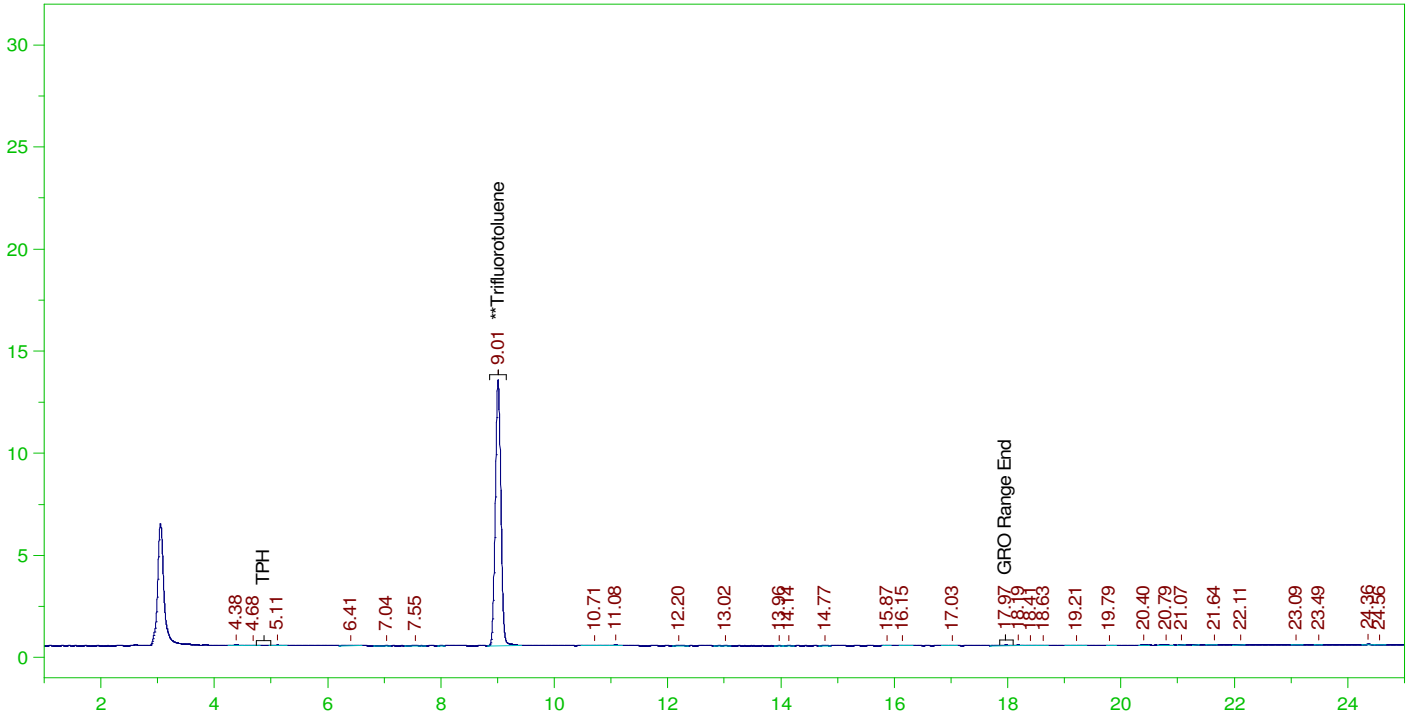
Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	125.	95.28	76.22

C6 to C10 Area:8531.262 C6 to C10 Amount: 8.70557  
 TPH Area:13741.32 TPH Amount: 14.37866

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0005.RAW

MBLK\_0223VAR05r, QC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MBLK\_0223VAR05r, QC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0005.RAW  
Date & Time Acquired: 2/23/2022 1:21:55 PM  
Method File: G:\Org\VAR\Methods\211208GMB0223\_05DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

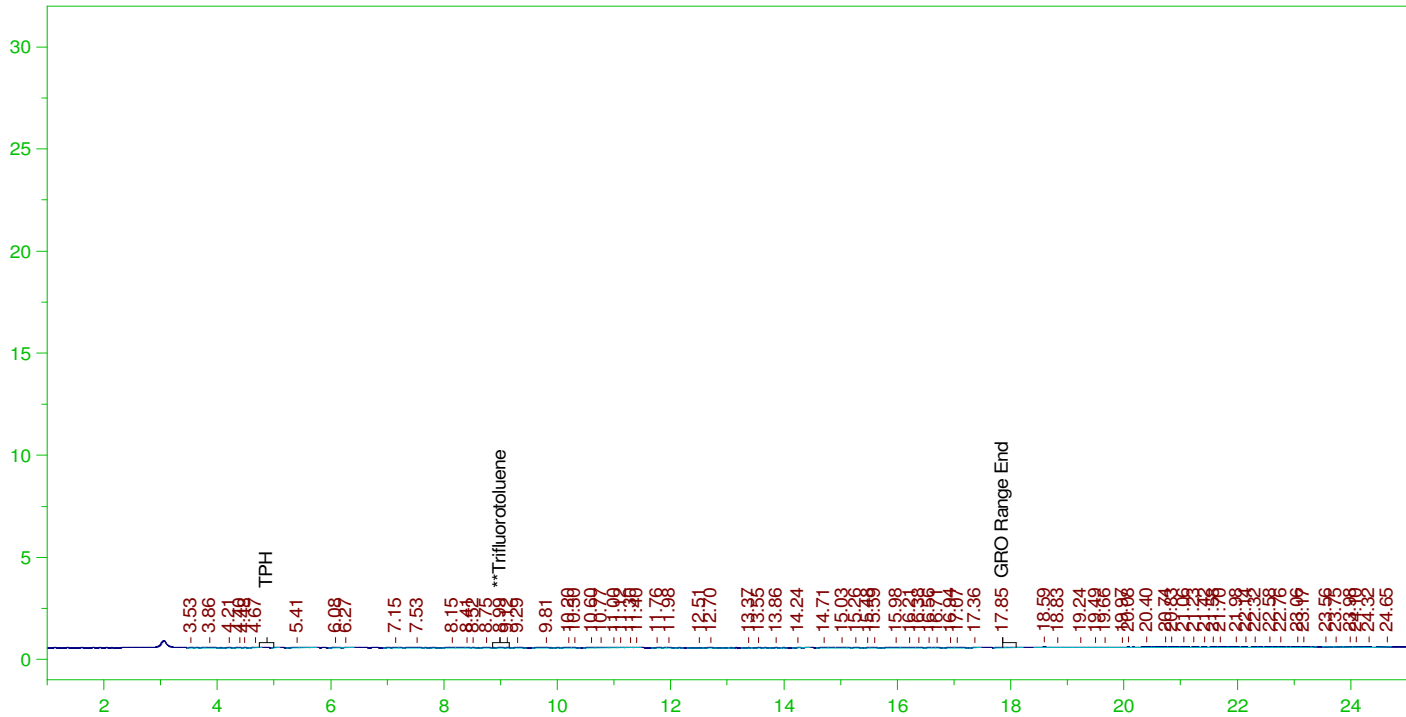
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	25.	19.292	77.17

C6 to C10 Area:2226.592 C6 to C10 Amount: 0.4544164  
TPH Area:4136.884 TPH Amount: 0.8657514

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0006.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0006.RAW  
 Date & Time Acquired: 2/23/2022 1:55:55 PM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

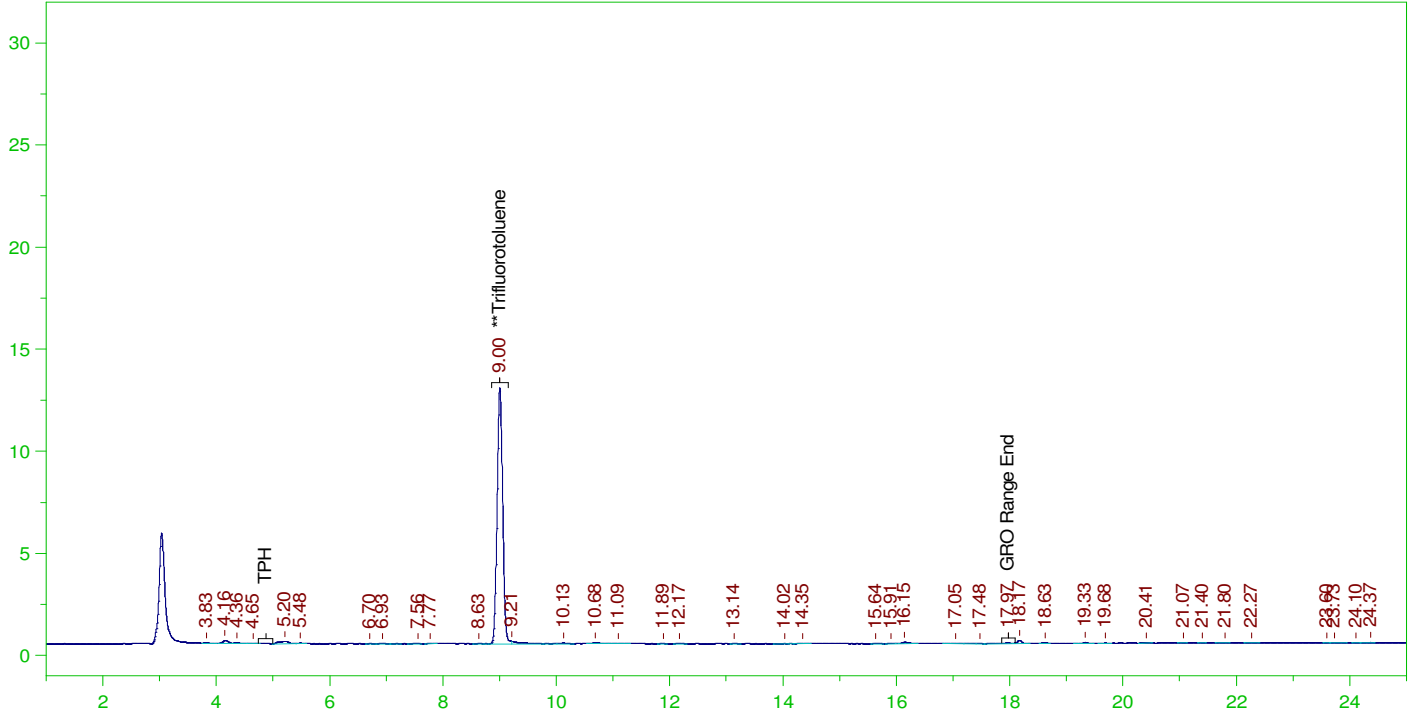
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.993	125.	.183	.15

C6 to C10 Area:5586.417 C6 to C10 Amount: 5.700548  
 TPH Area:10732.77 TPH Amount: 11.23057

ERH2545 (OWDFMW08A)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0007.RAW

B22021435-007D ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-007D ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0007.RAW  
Date & Time Acquired: 2/23/2022 2:29:55 PM  
Method File: G:\Org\VAR\Methods\211208G1435-7DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

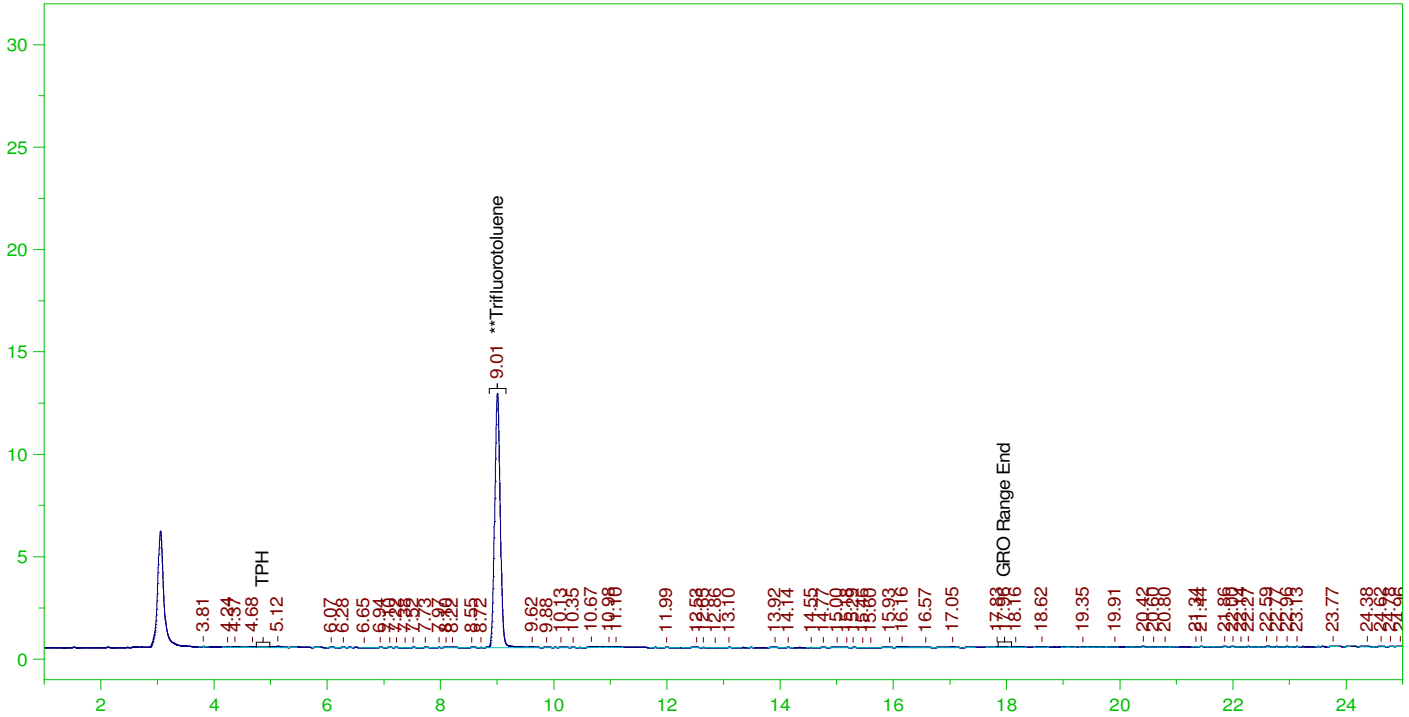
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.004	25.	18.534	74.14

C6 to C10 Area:6860.391 C6 to C10 Amount: 1.40011  
TPH Area:10776.65 TPH Amount: 2.255296

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0008.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0008.RAW  
 Date & Time Acquired: 2/23/2022 3:03:55 PM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

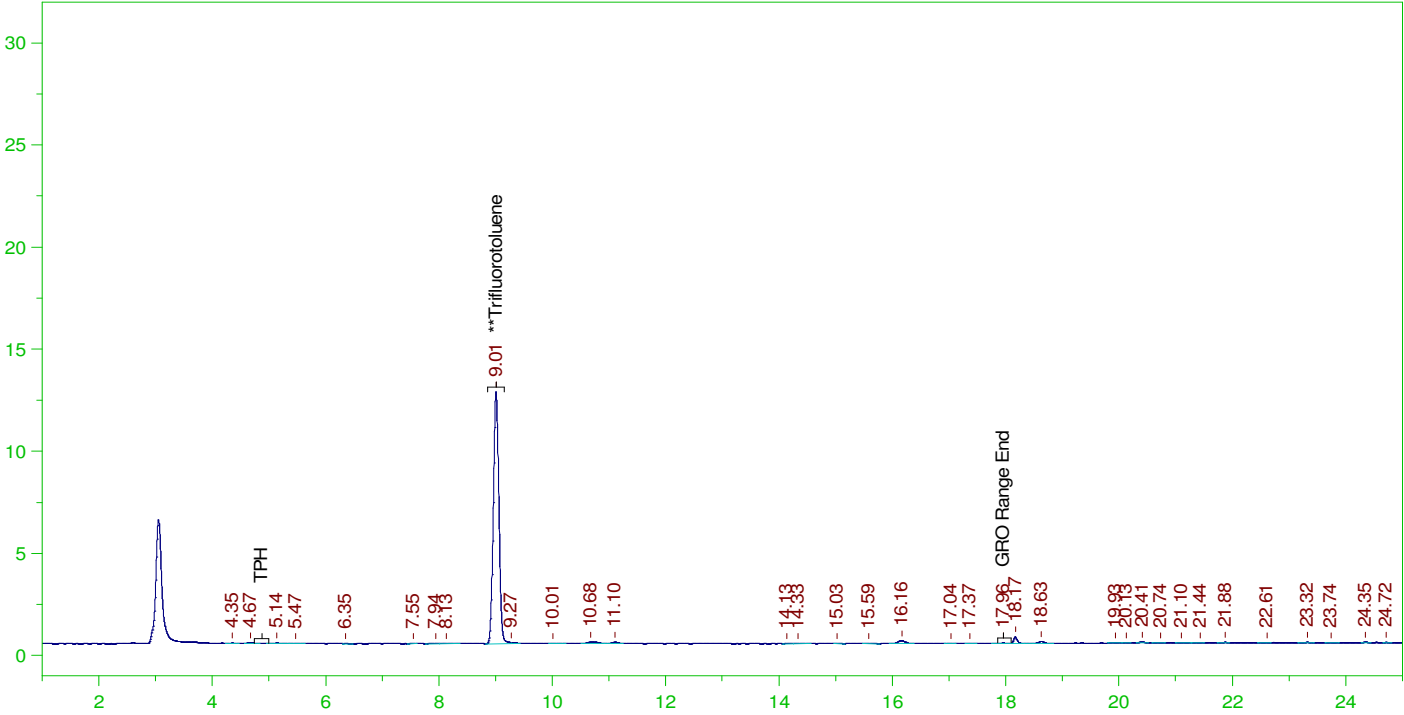
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	125.	92.739	74.19

C6 to C10 Area:6066.329 C6 to C10 Amount: 6.190265  
 TPH Area:9775.694 TPH Amount: 10.2291

ERH2541 (Trip Blank)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0009.RAW

B22021435-003A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-003A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0009.RAW  
Date & Time Acquired: 2/23/2022 3:37:59 PM  
Method File: G:\Org\VAR\Methods\211208G1435-3DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

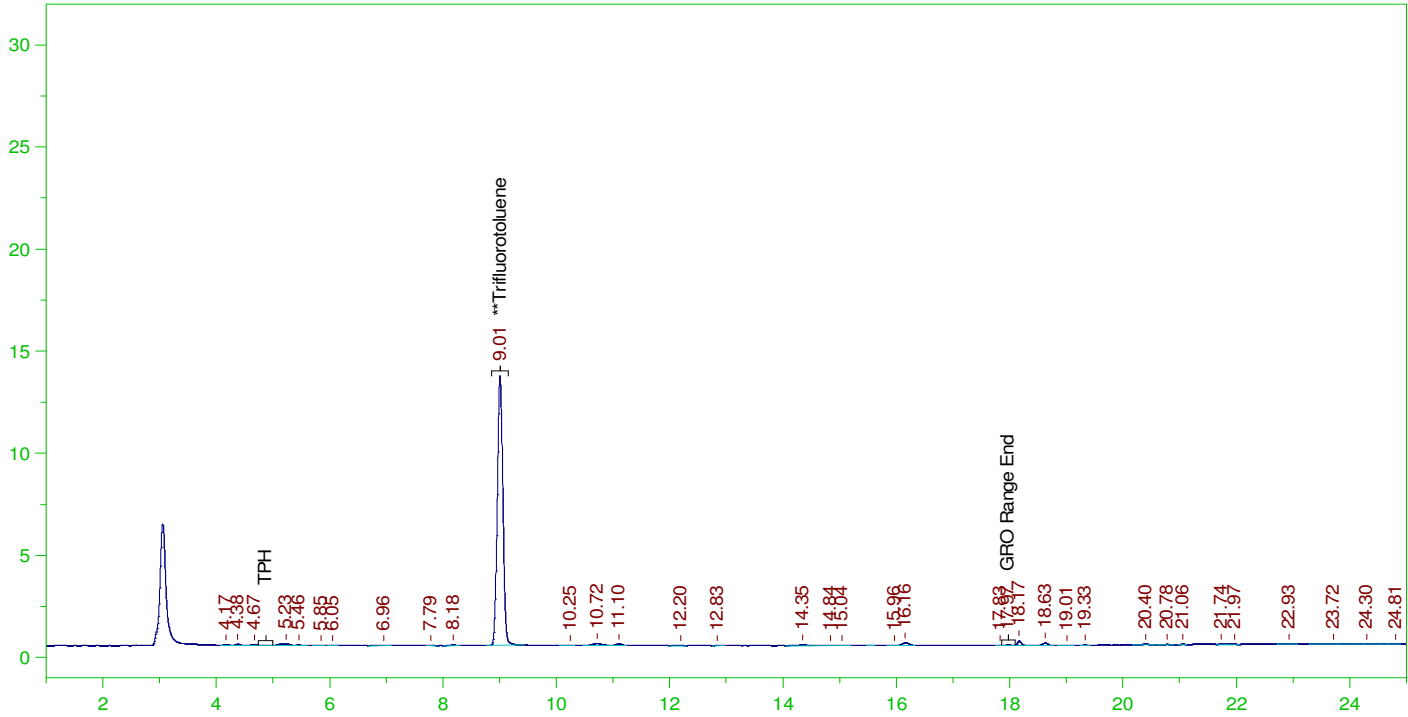
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	25.	18.252	73.01

C6 to C10 Area:4674.548 C6 to C10 Amount: 0.95401  
TPH Area:8365.778 TPH Amount: 1.750759

ERH2543 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0010.RAW

B22021435-009A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-009A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0010.RAW  
Date & Time Acquired: 2/23/2022 4:11:59 PM  
Method File: G:\Org\VAR\Methods\211208G1435-9DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

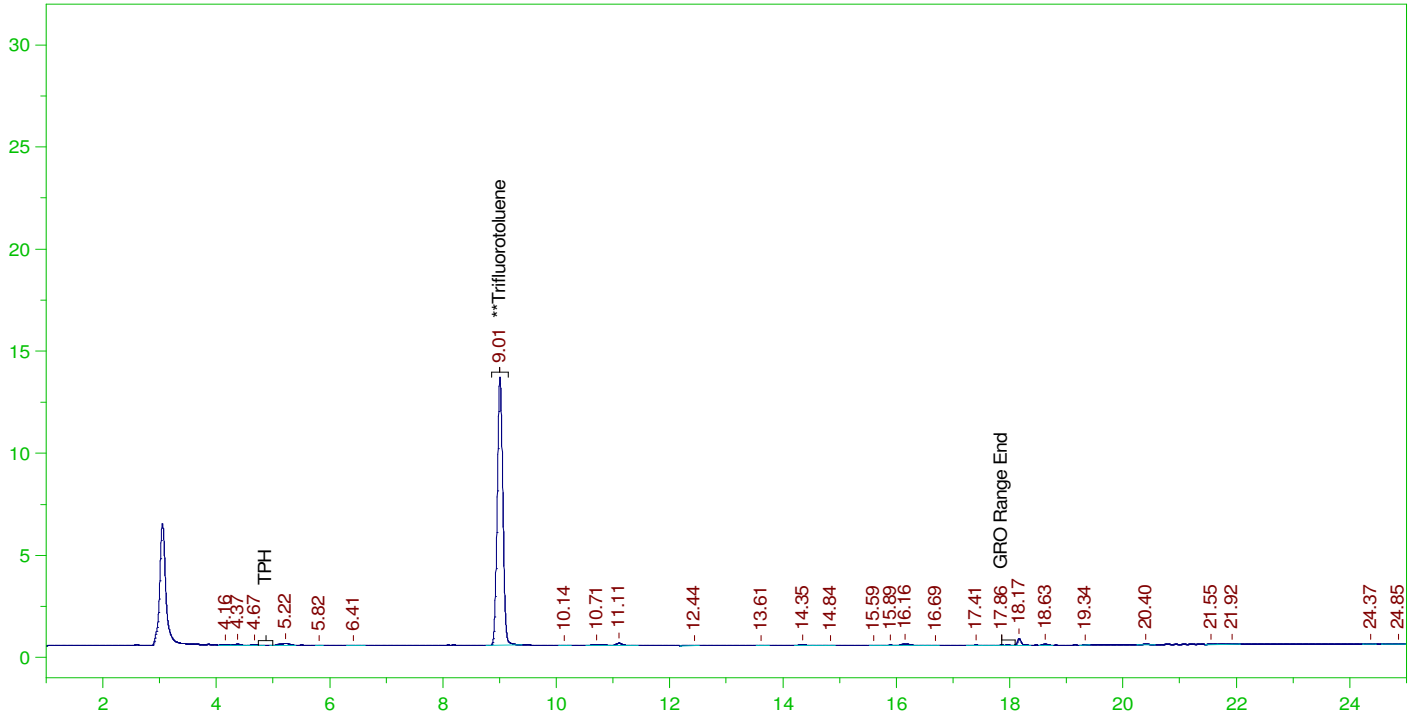
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	25.	19.521	78.08

C6 to C10 Area:6456.274 C6 to C10 Amount: 1.317636  
TPH Area:10861.8 TPH Amount: 2.273117

ERH2546 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0011.RAW

B22021435-014A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-014A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0011.RAW  
Date & Time Acquired: 2/23/2022 4:45:59 PM  
Method File: G:\Org\VAR\Methods\211208G1435-14DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.006	25.	19.46	77.84

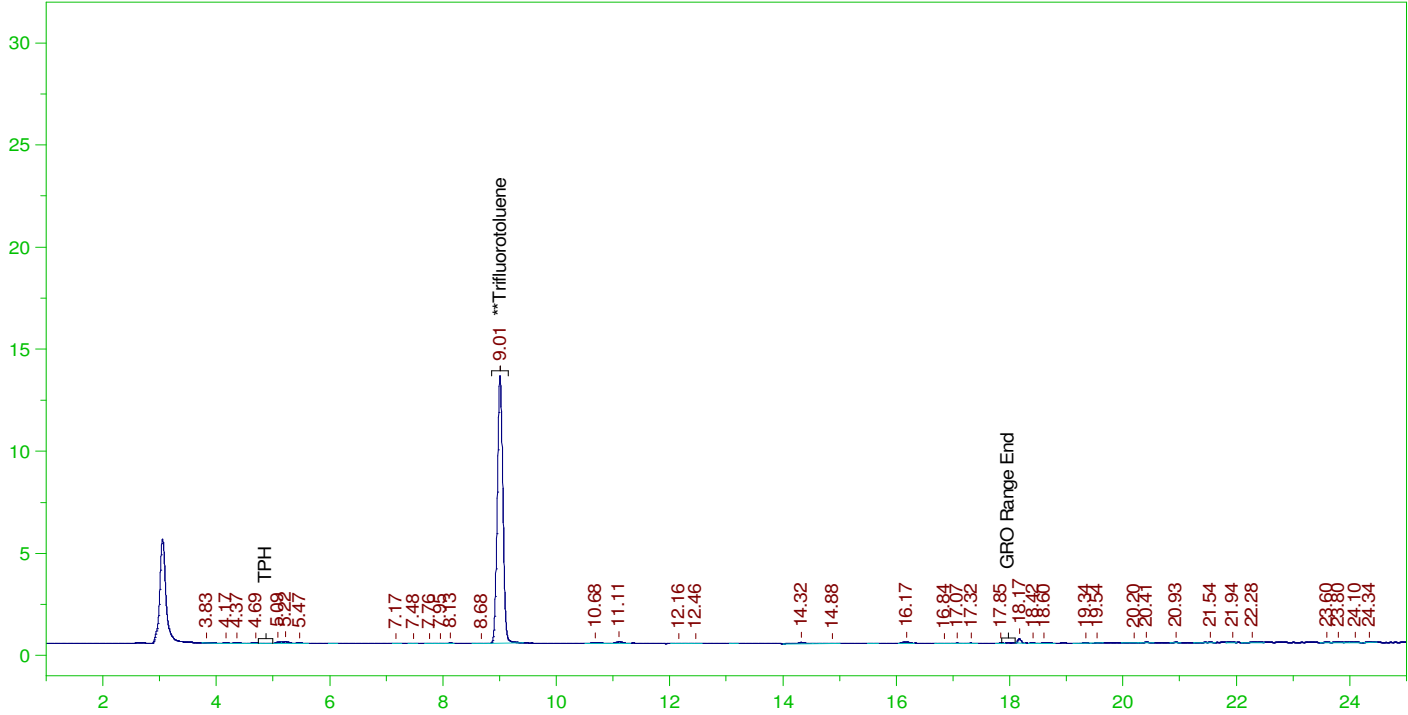
C6 to C10 Area:4972.975 C6 to C10 Amount: 1.014915  
TPH Area:8706.132 TPH Amount: 1.821987



ERH2548 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0012.RAW

B22021435-019A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-019A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0012.RAW  
Date & Time Acquired: 2/23/2022 5:20:00 PM  
Method File: G:\Org\VAR\Methods\211208G1435-19DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

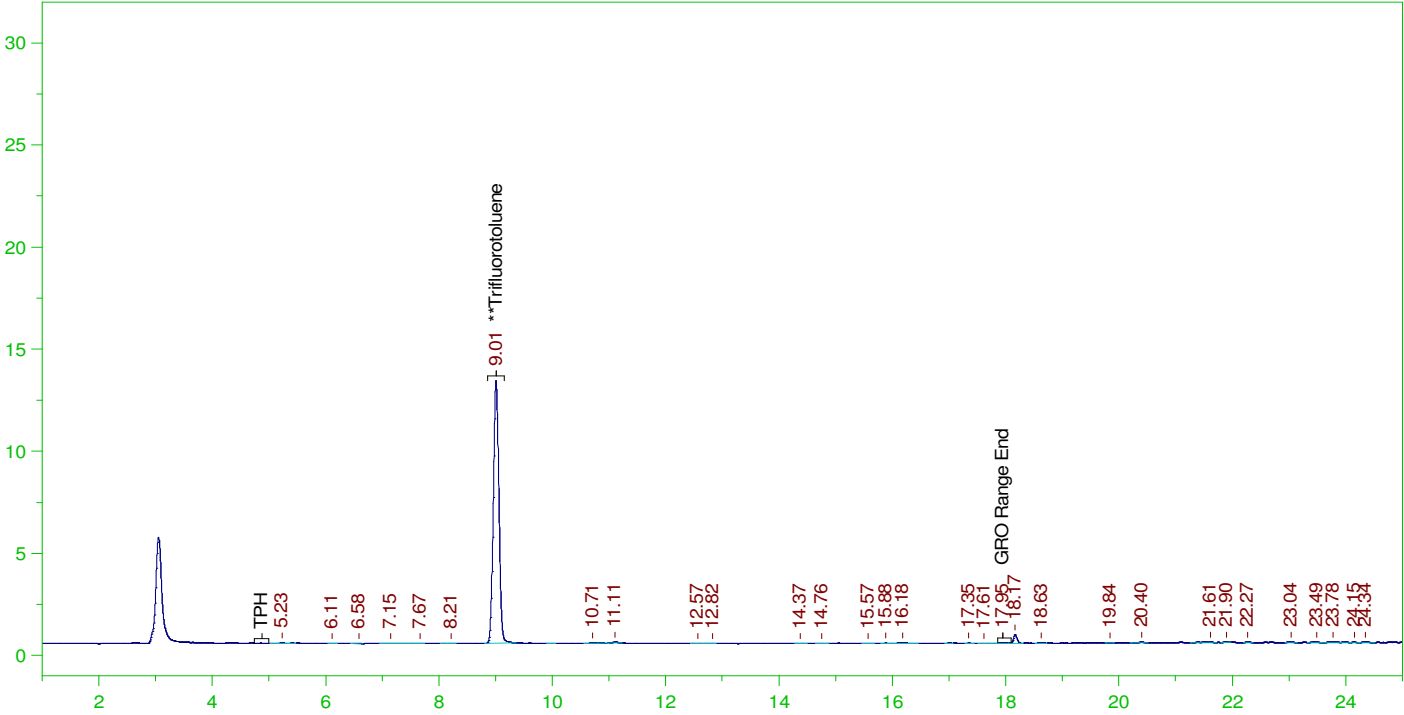
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	25.	19.418	77.67

C6 to C10 Area:4590.263 C6 to C10 Amount: 0.9368086  
TPH Area:8753.411 TPH Amount: 1.831881

ERH2550 (Trip Blank) 14833

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0013.RAW

B22021435-024A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-024A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0013.RAW  
Date & Time Acquired: 2/23/2022 5:53:59 PM  
Method File: G:\Org\VAR\Methods\211208G1435-24DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

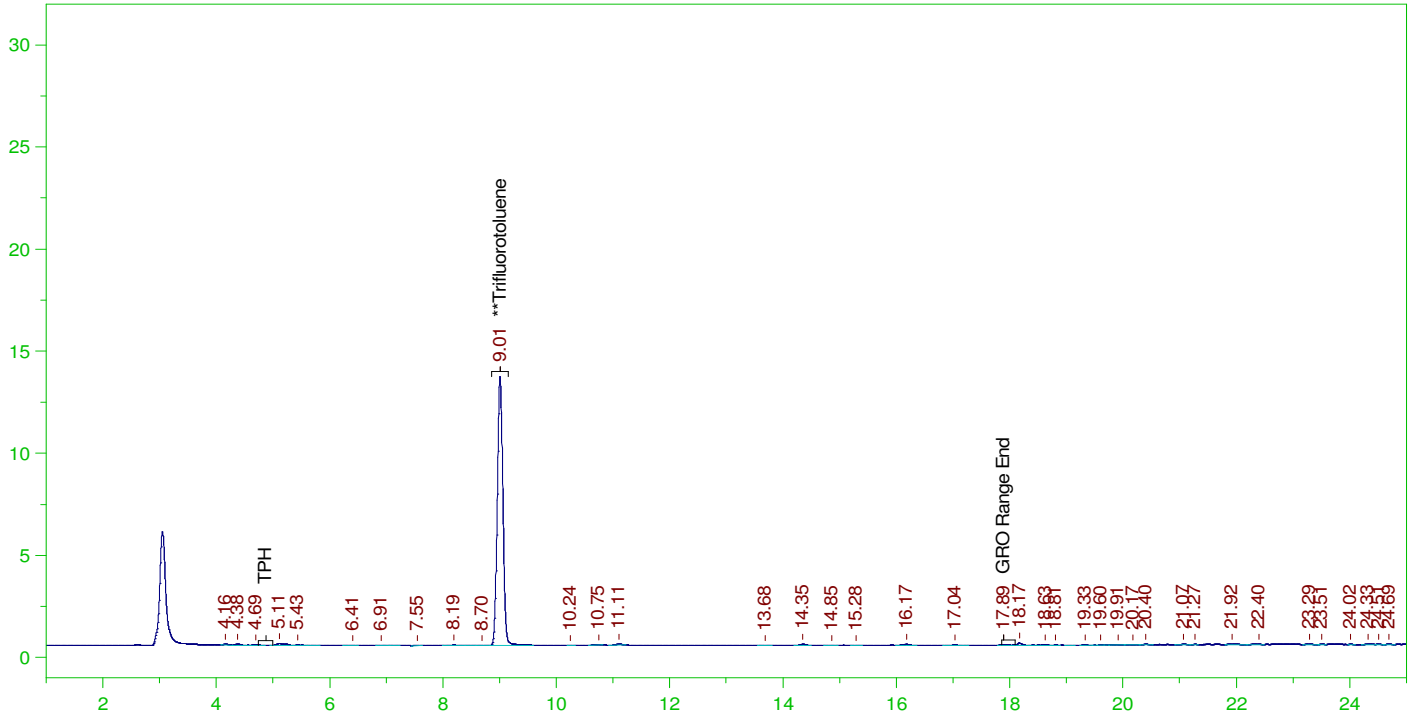
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	25.	19.044	76.18

C6 to C10 Area:2651.223 C6 to C10 Amount: 0.5410777  
TPH Area:6074.786 TPH Amount: 1.271308

ERH2552 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0014.RAW

B22021435-029A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-029A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0014.RAW  
Date & Time Acquired: 2/23/2022 6:27:57 PM  
Method File: G:\Org\VAR\Methods\211208G1435-29DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

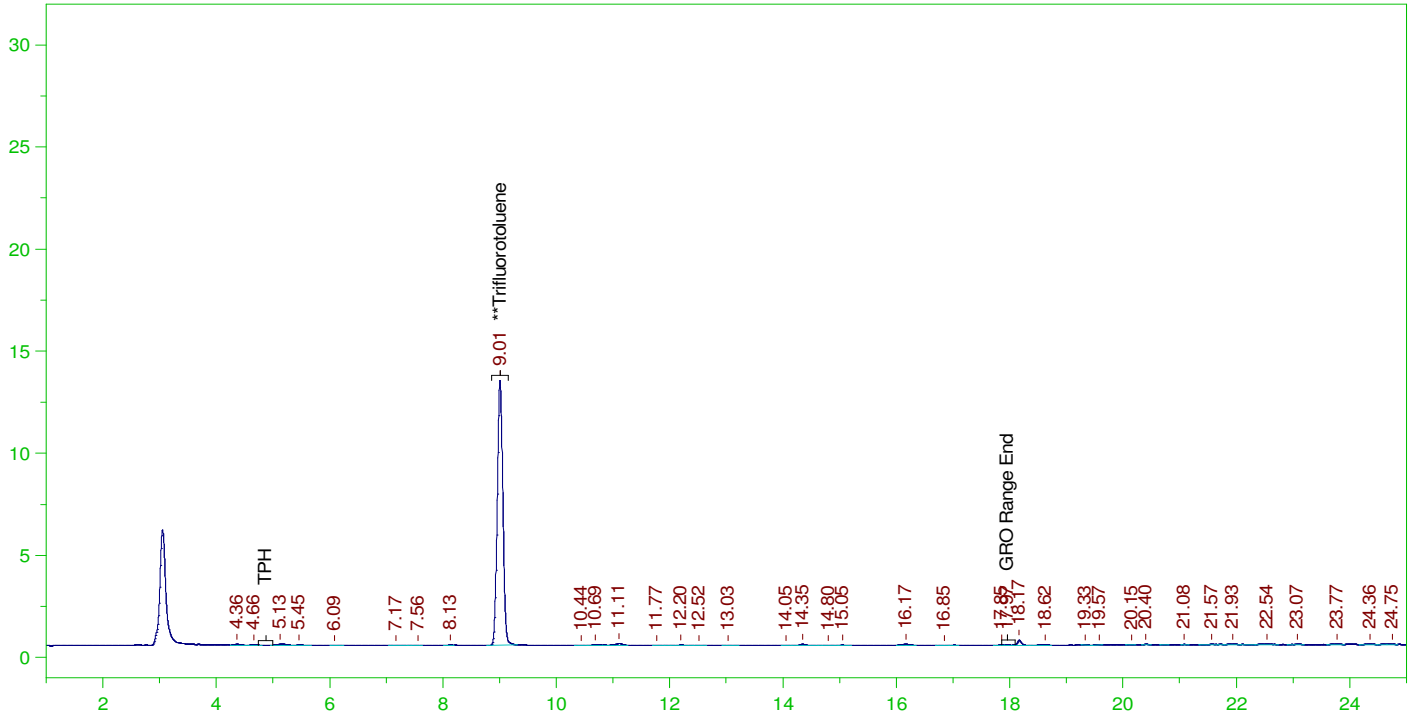
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.007	25.	19.611	78.44

C6 to C10 Area:4228.293 C6 to C10 Amount: 0.8629355  
TPH Area:8043.118 TPH Amount: 1.683233

ERH2554 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0015.RAW

B22021435-034A ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-034A ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0015.RAW  
Date & Time Acquired: 2/23/2022 7:02:00 PM  
Method File: G:\Org\VAR\Methods\211208G1435-34DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

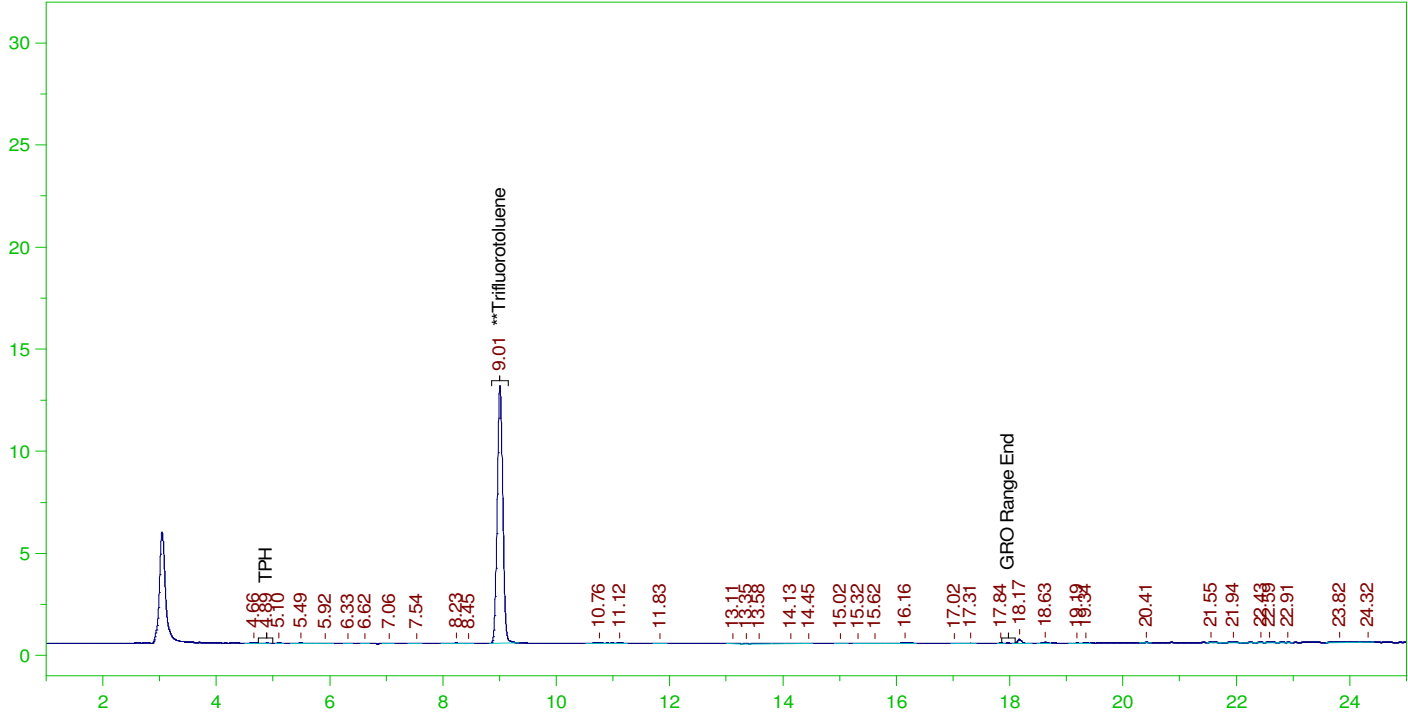
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.006	25.	19.152	76.61

C6 to C10 Area:4829.303 C6 to C10 Amount: 0.9855934  
TPH Area:8731.763 TPH Amount: 1.82735

ERH2542 (OWDFMW07A)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0016.RAW

B22021435-001G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-001G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0016.RAW  
Date & Time Acquired: 2/23/2022 7:36:01 PM  
Method File: G:\Org\VAR\Methods\211208G1435-1DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

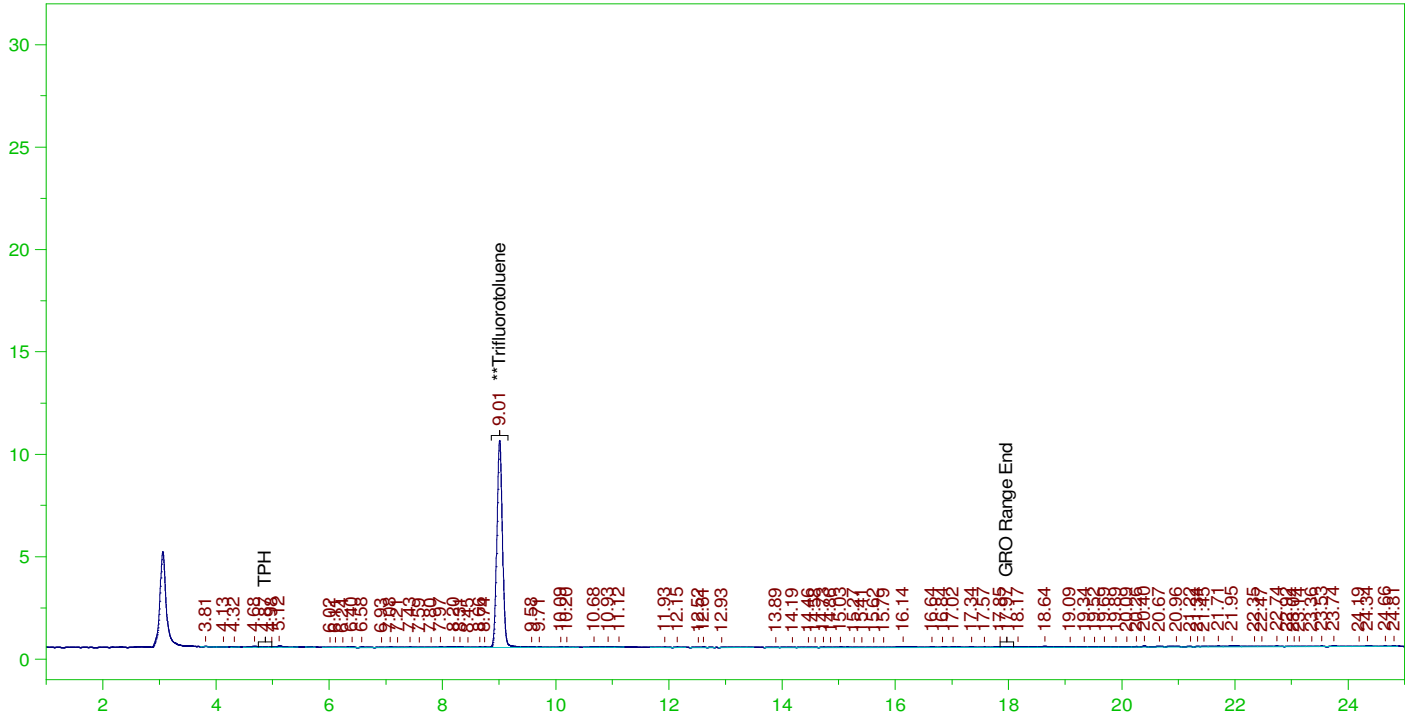
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.006	25.	18.602	74.41

C6 to C10 Area:3318.727 C6 to C10 Amount: 0.6773059  
TPH Area:6332.914 TPH Amount: 1.325328

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0017.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0017.RAW  
 Date & Time Acquired: 2/23/2022 8:10:03 PM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

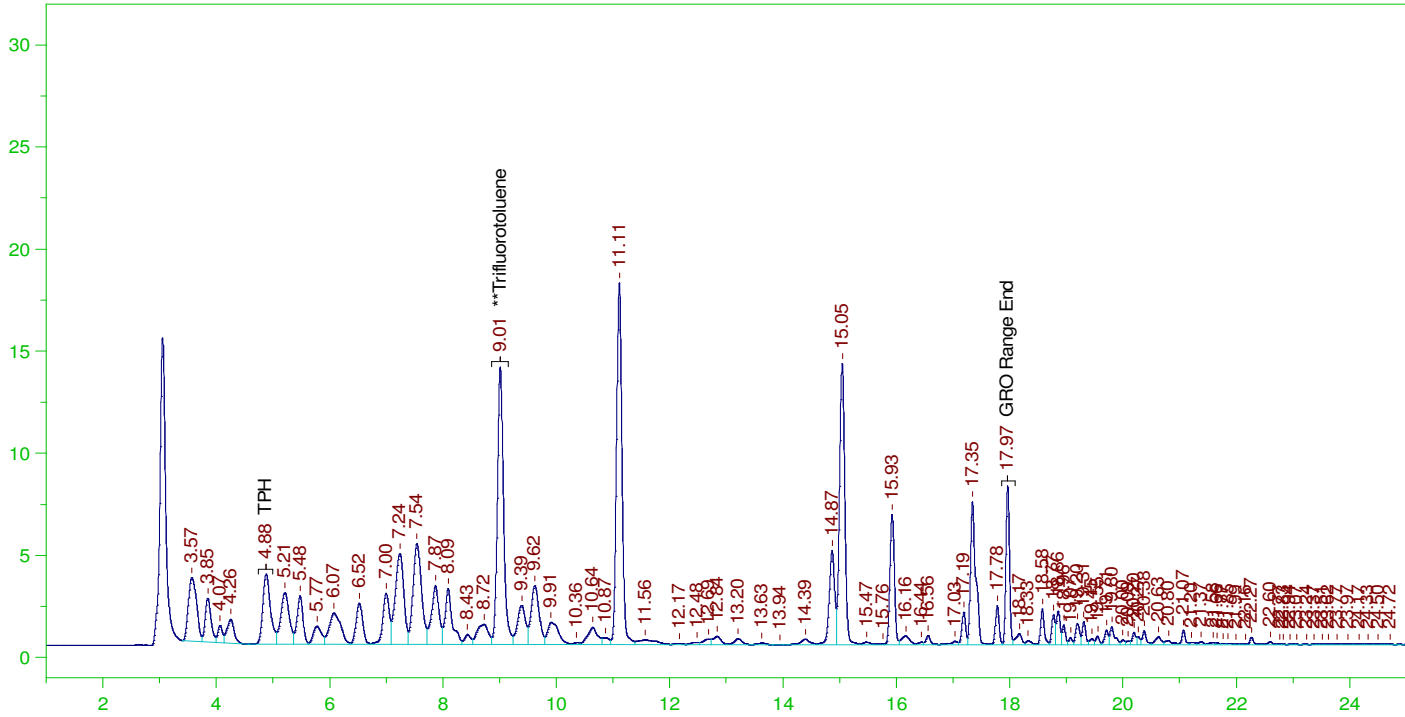
Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.01	125.	75.498	60.4

C6 to C10 Area: 7217.822 C6 to C10 Amount: 7.365284  
 TPH Area: 15620.78 TPH Amount: 16.34529

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0018.RAW

B22021435-007DMS, GQC ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-007DMS, GQC ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0018.RAW  
Date & Time Acquired: 2/23/2022 8:44:07 PM  
Method File: G:\Org\VAR\Methods\211208G1435-7MSDoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

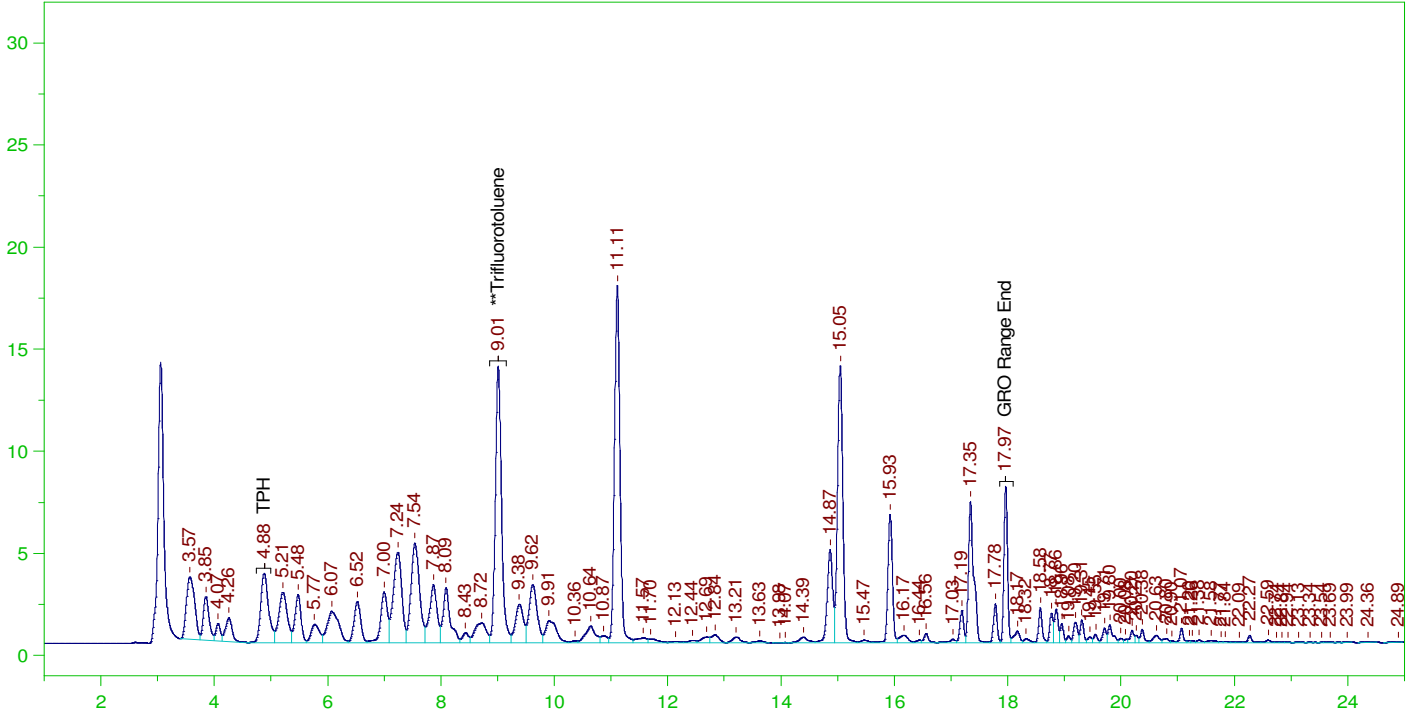
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.011	25.	22.241	88.96

C6 to C10 Area:805138.6 C6 to C10 Amount: 164.3176  
TPH Area:951906.5 TPH Amount: 199.2114

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0019.RAW

B22021435-007DMSD, GQC ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-007DMSD, GQC ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0019.RAW  
Date & Time Acquired: 2/23/2022 9:18:11 PM  
Method File: G:\Org\VAR\Methods\211208G1435-7MSDDoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

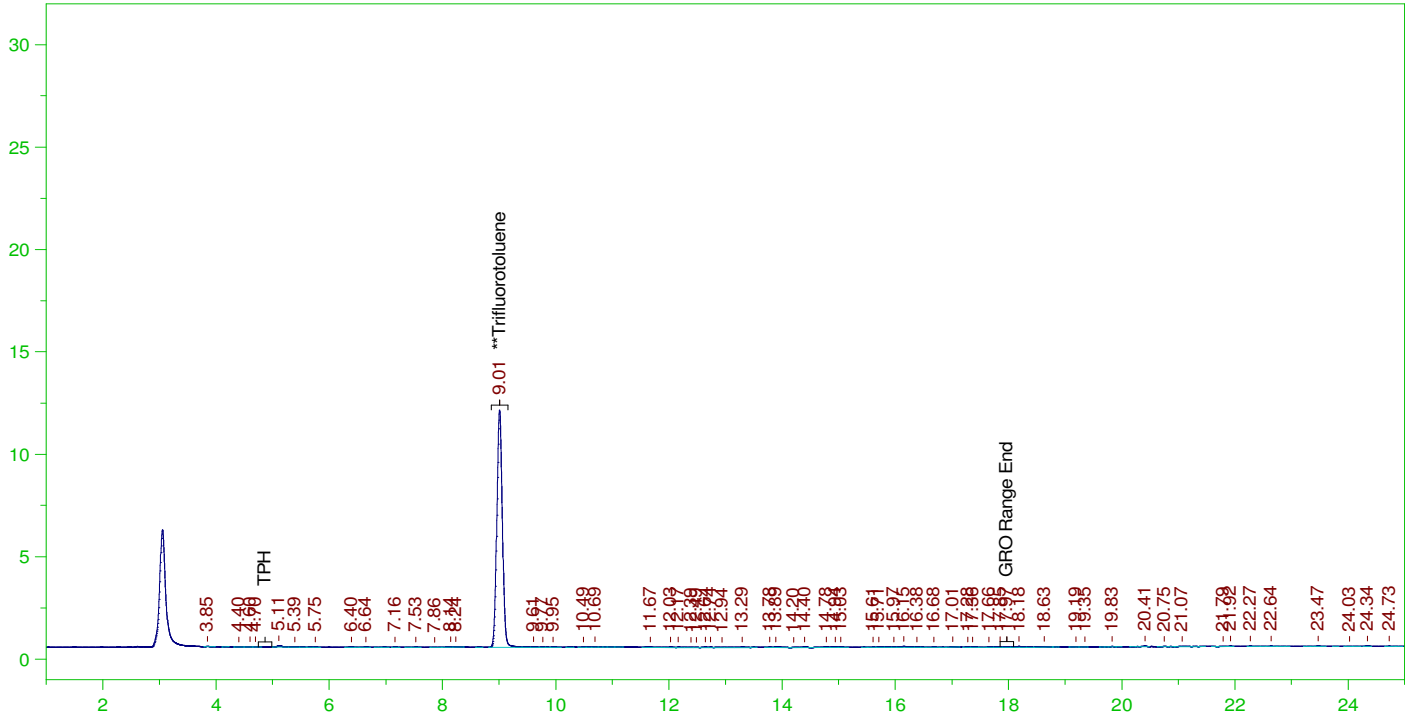
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.01	25.	22.148	88.59

C6 to C10 Area: 791010.1 C6 to C10 Amount: 161.4341  
TPH Area: 932271 TPH Amount: 195.1022



G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0020.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0020.RAW  
 Date & Time Acquired: 2/23/2022 9:52:14 PM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

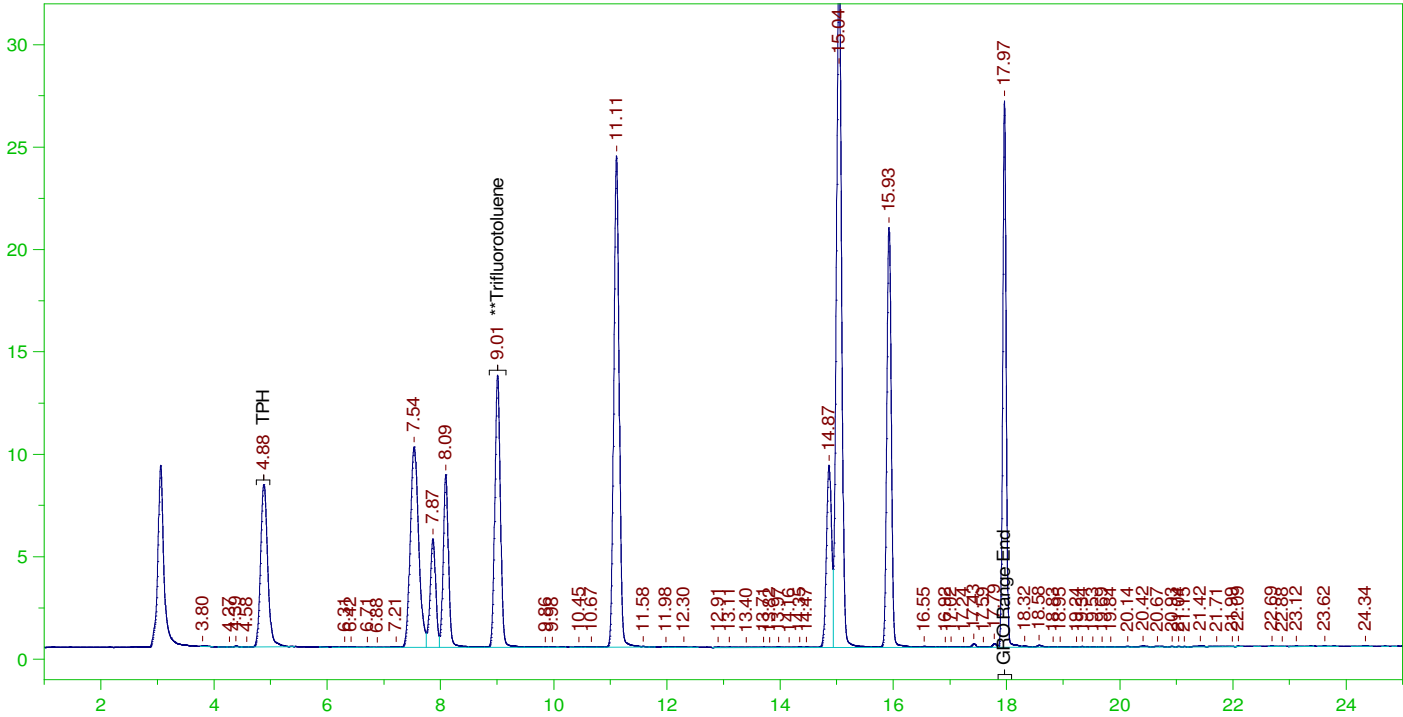
Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	125.	86.12	68.9

C6 to C10 Area:5875.75 C6 to C10 Amount: 5.995793  
 TPH Area:8747.111 TPH Amount: 9.152813

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0021.RAW

CCV\_0223VAR21r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0223VAR21r, GQC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0021.RAW  
Date & Time Acquired: 2/23/2022 10:26:16 PM  
Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	99.471	79.58	-

C6 to C10 Area:934662.8 C6 to C10 Amount: 953.7581  
TPH Area:939868.8 TPH Amount: 983.461

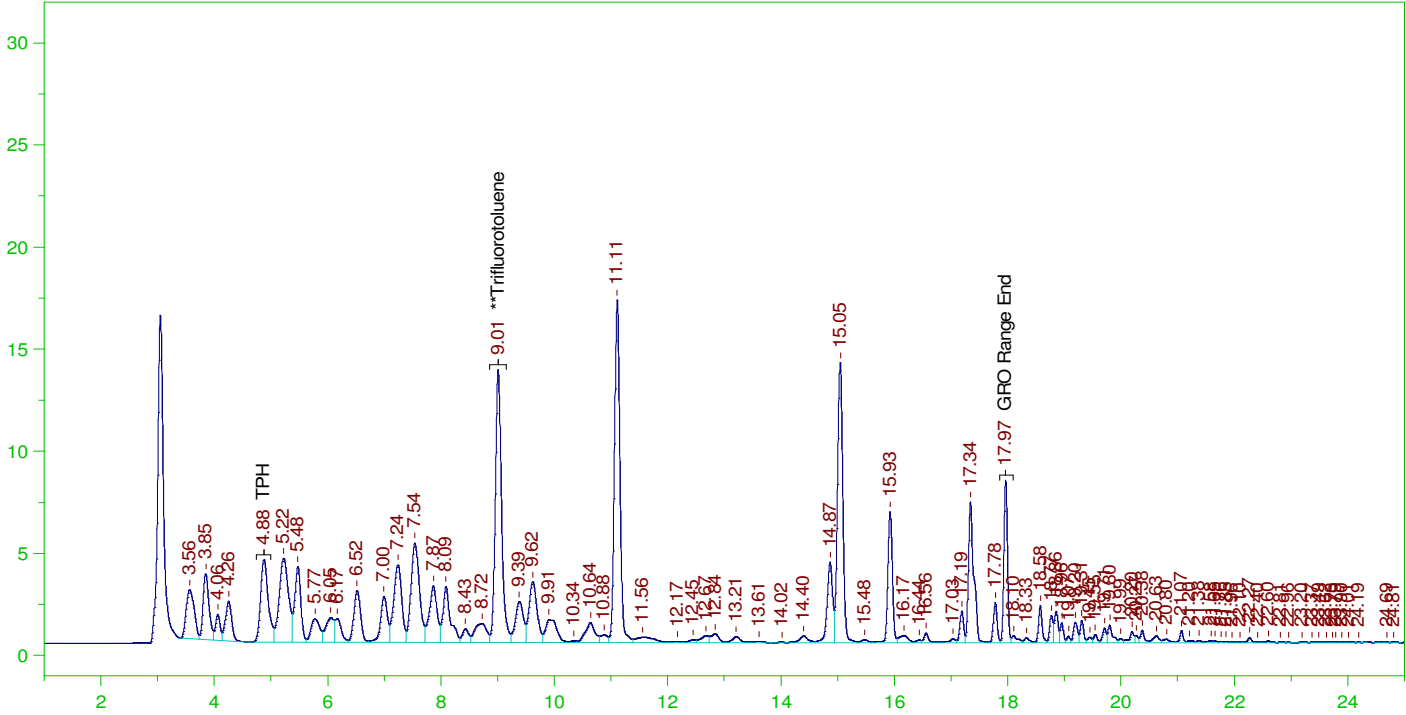
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0021.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	953.76	113.54	85-115
TPH	1000.	983.46	98.35	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.01	125.	99.471	79.58	85-115

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0022.RAW

CCV\_0223VAR22r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0223VAR22r, GQC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0022.RAW  
Date & Time Acquired: 2/23/2022 11:00:19 PM  
Method File: G:\Org\VAR\Methods\211208GCCV0223\_22DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	110.678	88.54	-

C6 to C10 Area:832637.6 C6 to C10 Amount: 849.6485  
TPH Area:978296.1 TPH Amount: 1023.671

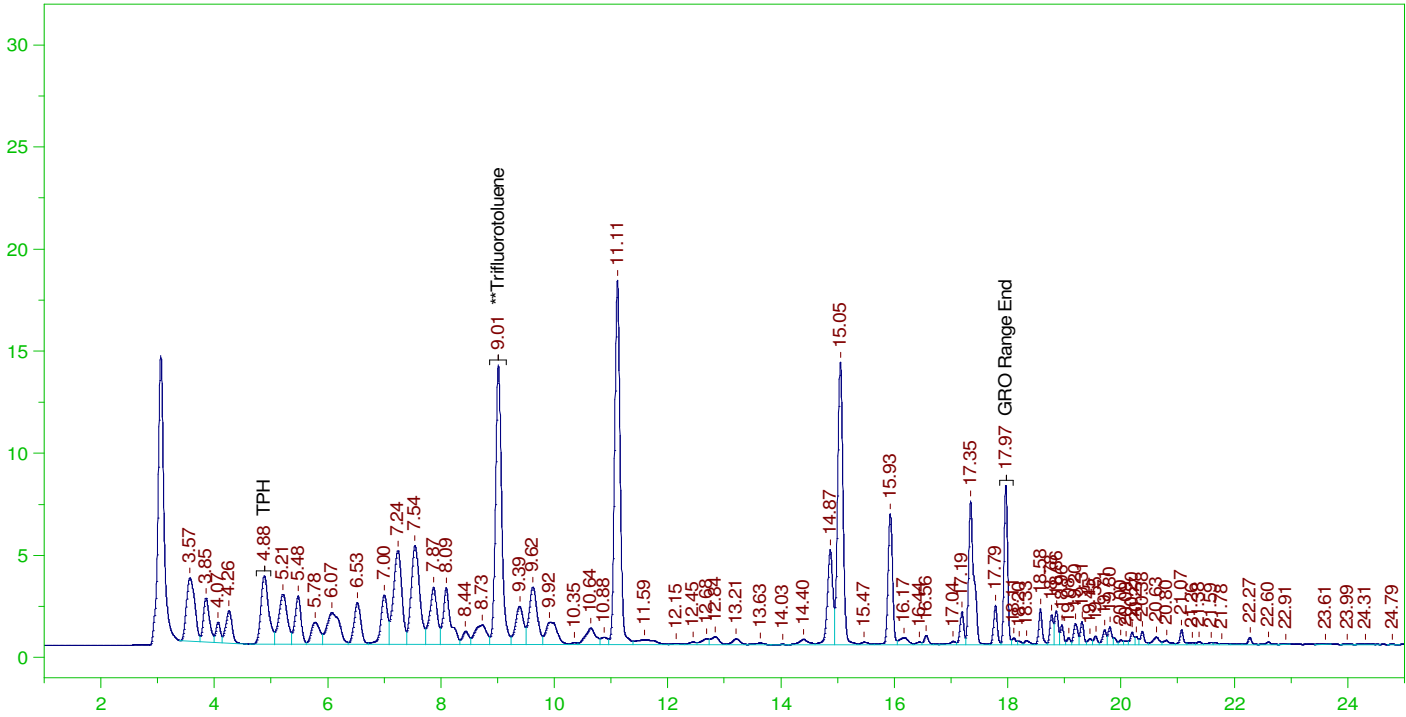
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0022.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	849.65	101.15	85-115
TPH	1000.	1023.67	102.37	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.01	125.	110.678	88.54	85-115

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0023.RAW

LCS\_0223VAR23r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS\_0223VAR23r, GQC ;0223VAR ,  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0023.RAW  
 Date & Time Acquired: 2/23/2022 11:34:22 PM  
 Method File: G:\Org\VAR\Methods\211208GLCS0223\_23DoDB%.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 5 Dilution: 1 S.A.: 1

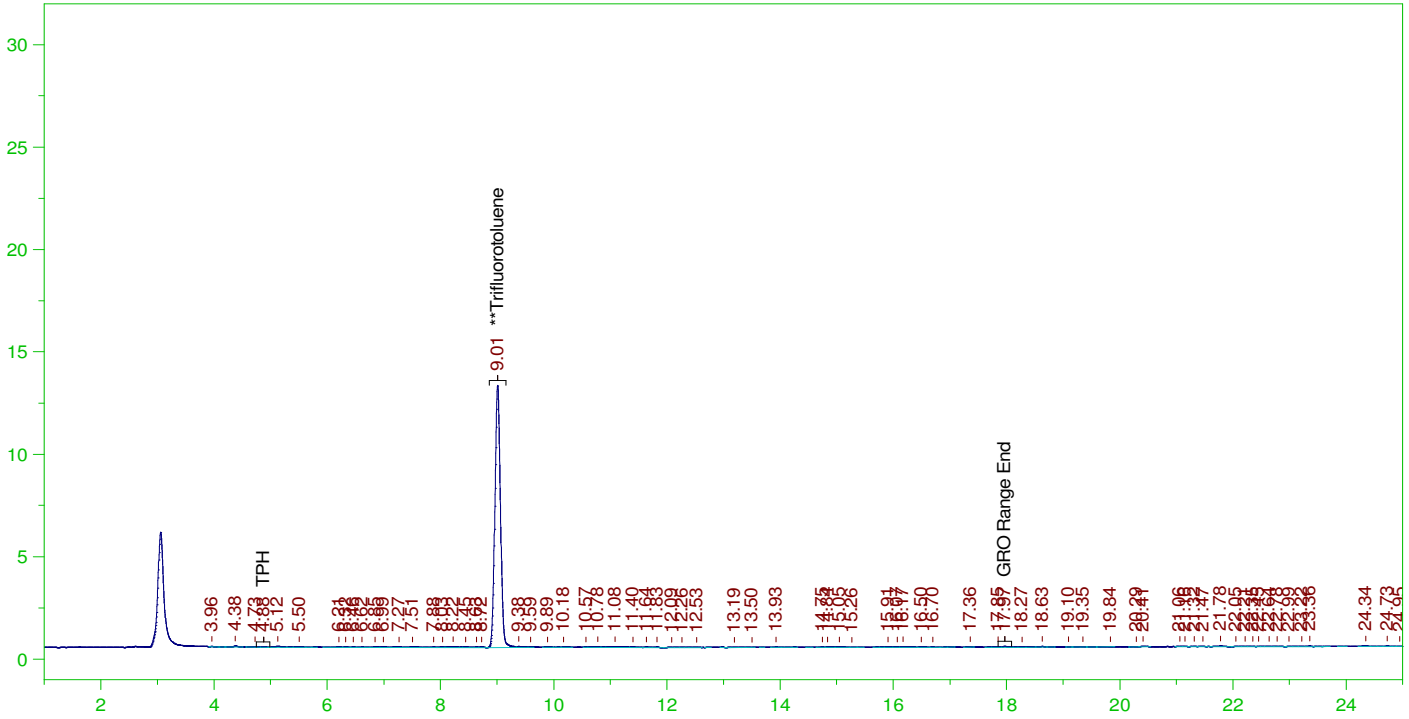
Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.013	25.	22.38	89.52

C6 to C10 Area:813674.6 C6 to C10 Amount: 166.0596  
 TPH Area:957178.6 TPH Amount: 200.3147

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0024.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0024.RAW  
 Date & Time Acquired: 2/24/2022 12:08:25 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

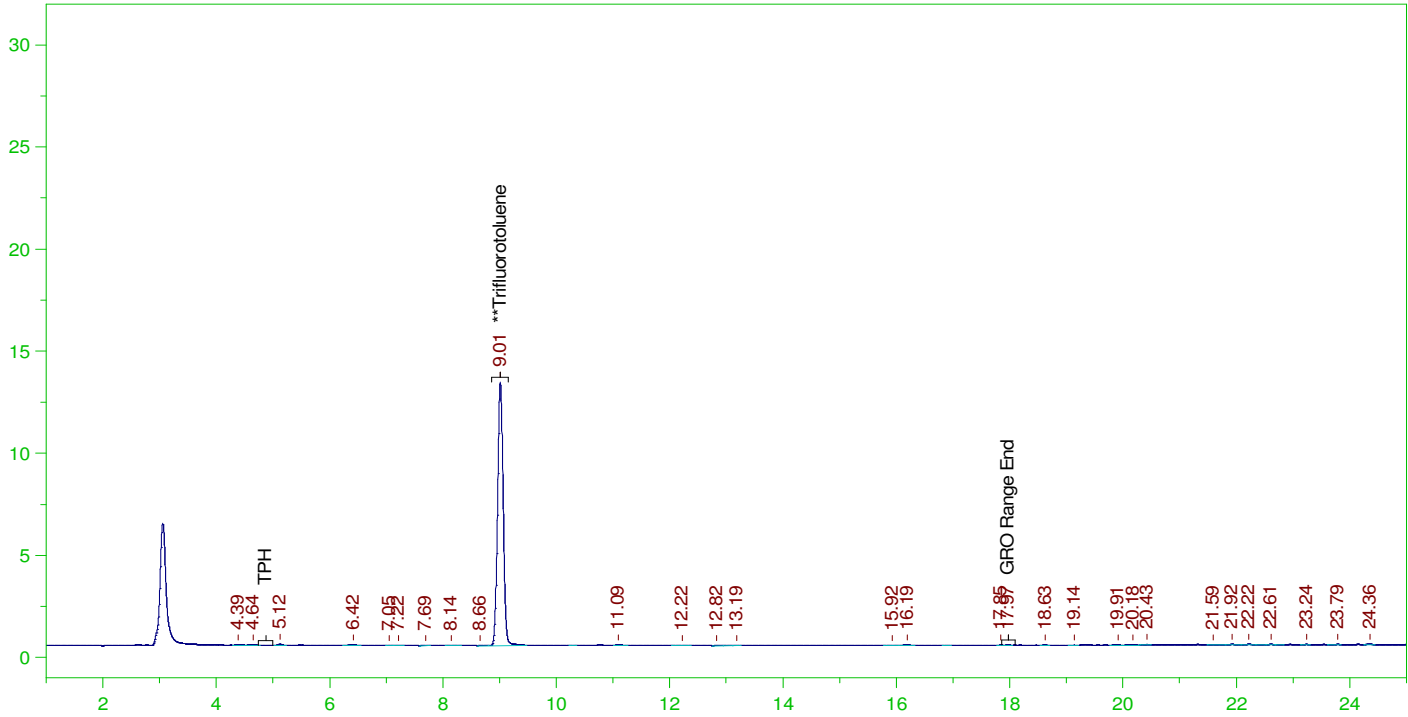
Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.01	125.	95.121	76.1

C6 to C10 Area: 7877.577 C6 to C10 Amount: 8.038518  
 TPH Area: 12343.73 TPH Amount: 12.91624

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0025.RAW

MBLK\_0223VAR25r, QC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MBLK\_0223VAR25r, QC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0025.RAW  
Date & Time Acquired: 2/24/2022 12:42:30 AM  
Method File: G:\Org\VAR\Methods\211208GMB0223\_25DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

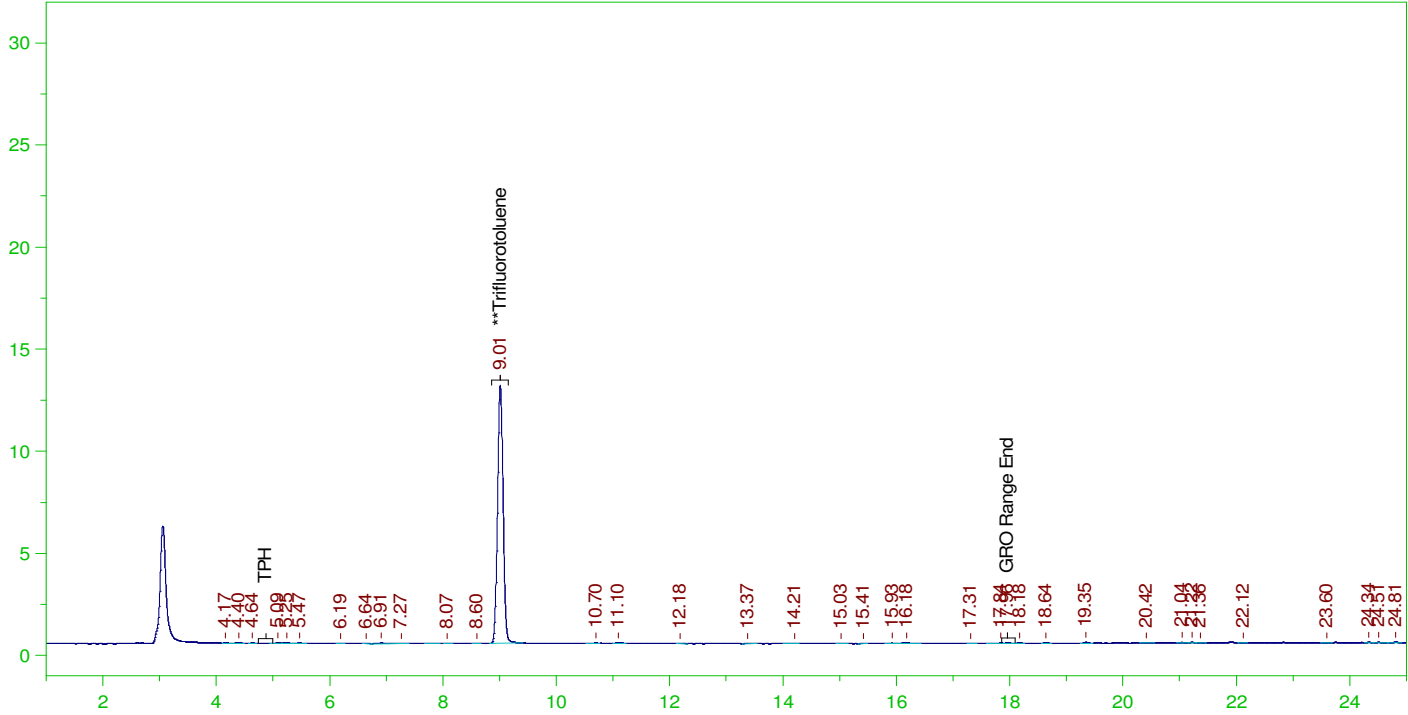
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.012	25.	19.194	76.78

C6 to C10 Area:2335.059 C6 to C10 Amount: 0.4765529  
TPH Area:4955.547 TPH Amount: 1.037078

ERH2544 (OWDFMW08A)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0026.RAW

B22021435-006G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-006G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0026.RAW  
Date & Time Acquired: 2/24/2022 1:16:33 AM  
Method File: G:\Org\VAR\Methods\211208G1435-6DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

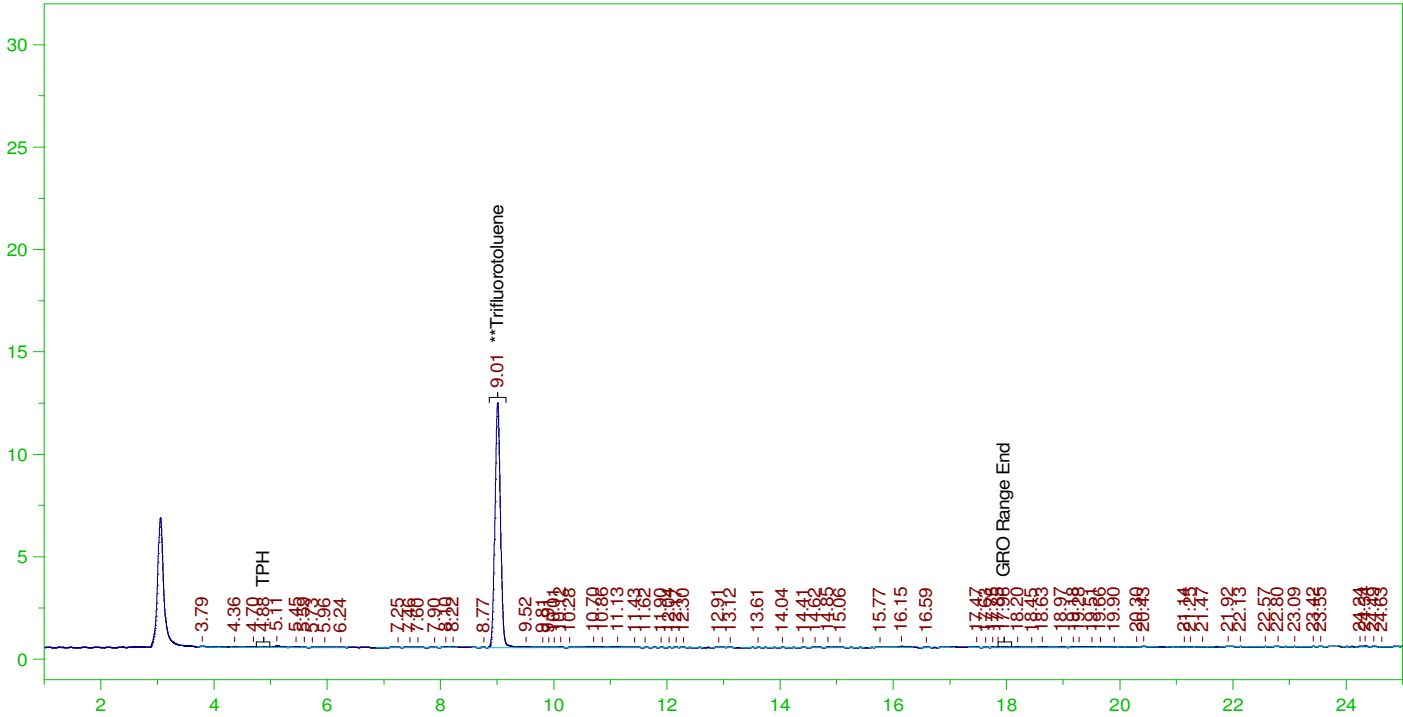
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.011	25.	18.745	74.98

C6 to C10 Area:2915.889 C6 to C10 Amount: 0.5950922  
TPH Area:4690.684 TPH Amount: 0.9816487

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0027.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0027.RAW  
 Date & Time Acquired: 2/24/2022 1:50:36 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.011	125.	88.924	71.14

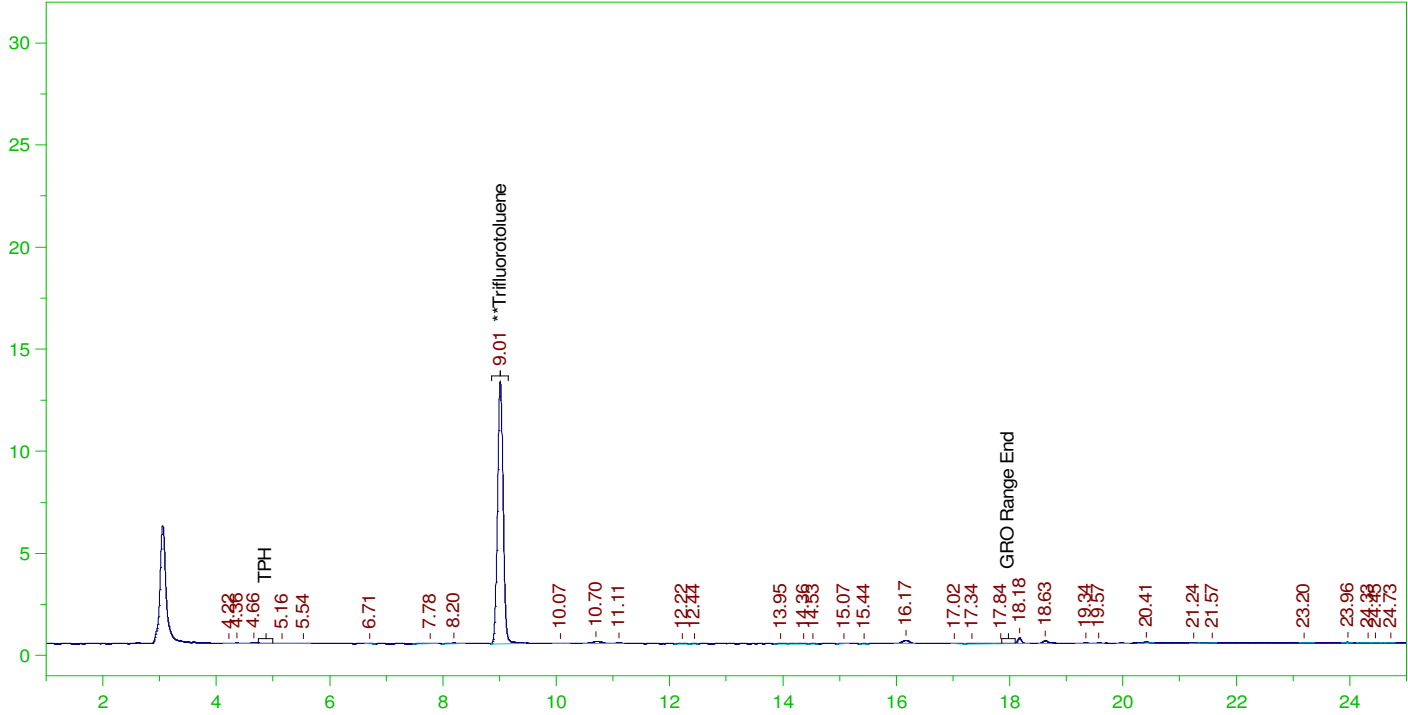
C6 to C10 Area: 7154.74 C6 to C10 Amount: 7.300913  
 TPH Area: 11471.77 TPH Amount: 12.00384



ERH2547 (RHMW19)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0028.RAW

B22021435-012G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-012G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0028.RAW  
Date & Time Acquired: 2/24/2022 2:24:35 AM  
Method File: G:\Org\VAR\Methods\211208G1435-12DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

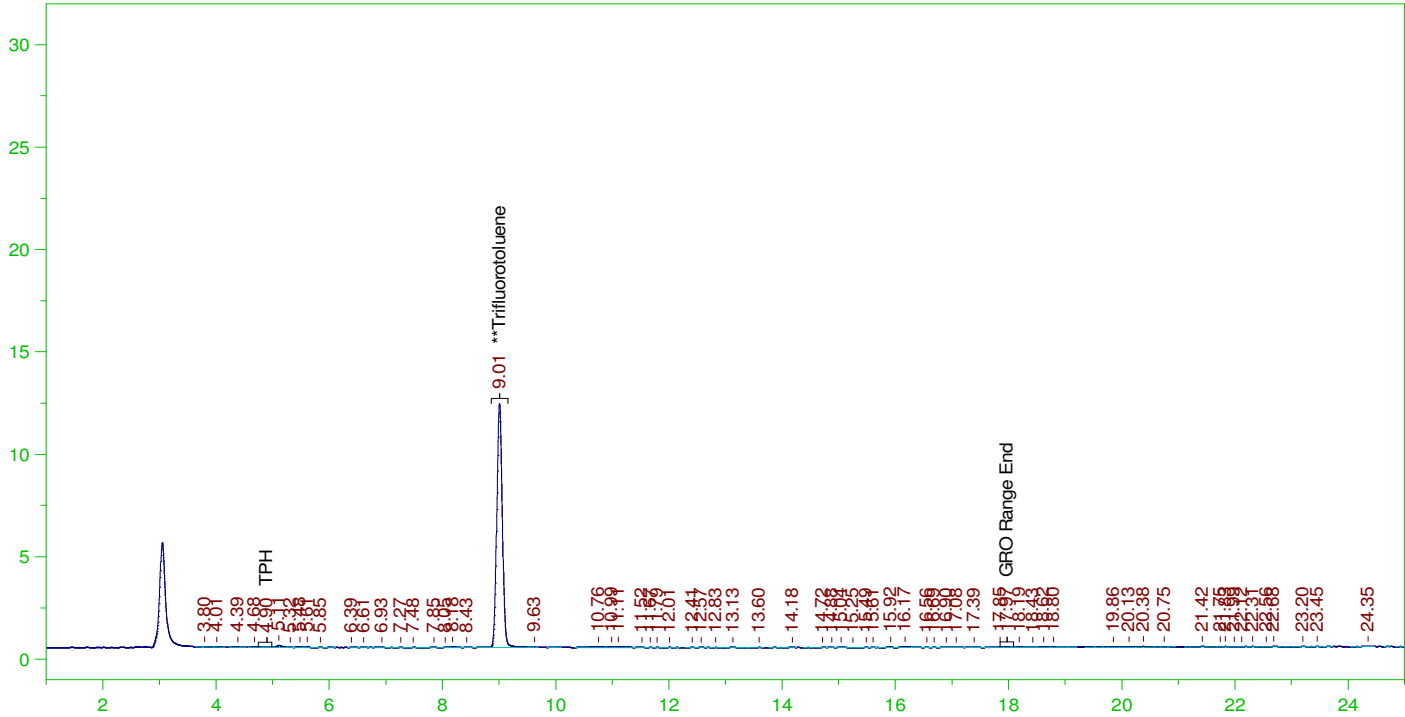
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.011	25.	19.055	76.22

C6 to C10 Area:4958.094 C6 to C10 Amount: 1.011878  
TPH Area:9188.542 TPH Amount: 1.922943

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0029.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0029.RAW  
 Date & Time Acquired: 2/24/2022 2:58:40 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

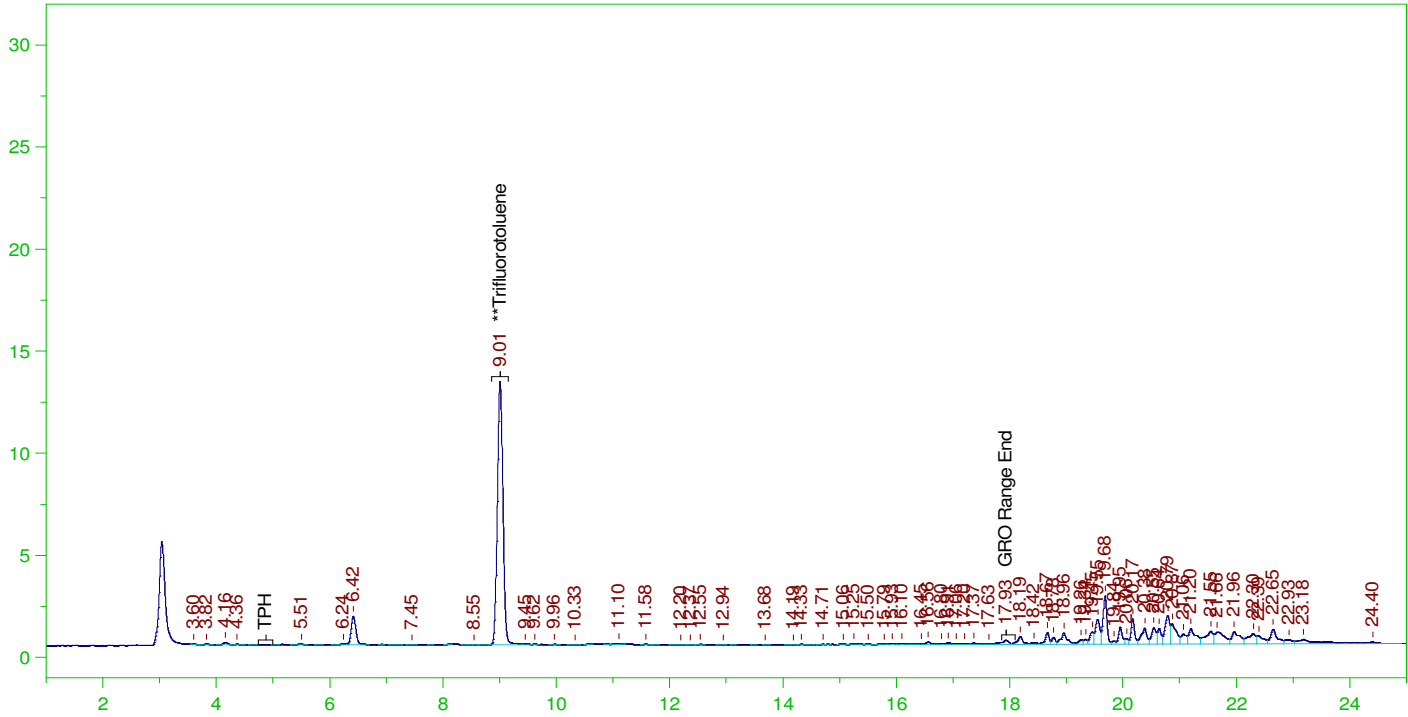
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.008	125.	88.596	70.88

C6 to C10 Area:6773.053 C6 to C10 Amount: 6.911427  
 TPH Area:10604.85 TPH Amount: 11.09672

ERH2549 (RHMW01R)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0030.RAW

B22021435-017G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-017G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0030.RAW  
Date & Time Acquired: 2/24/2022 3:32:44 AM  
Method File: G:\Org\VAR\Methods\211208G1435-17DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

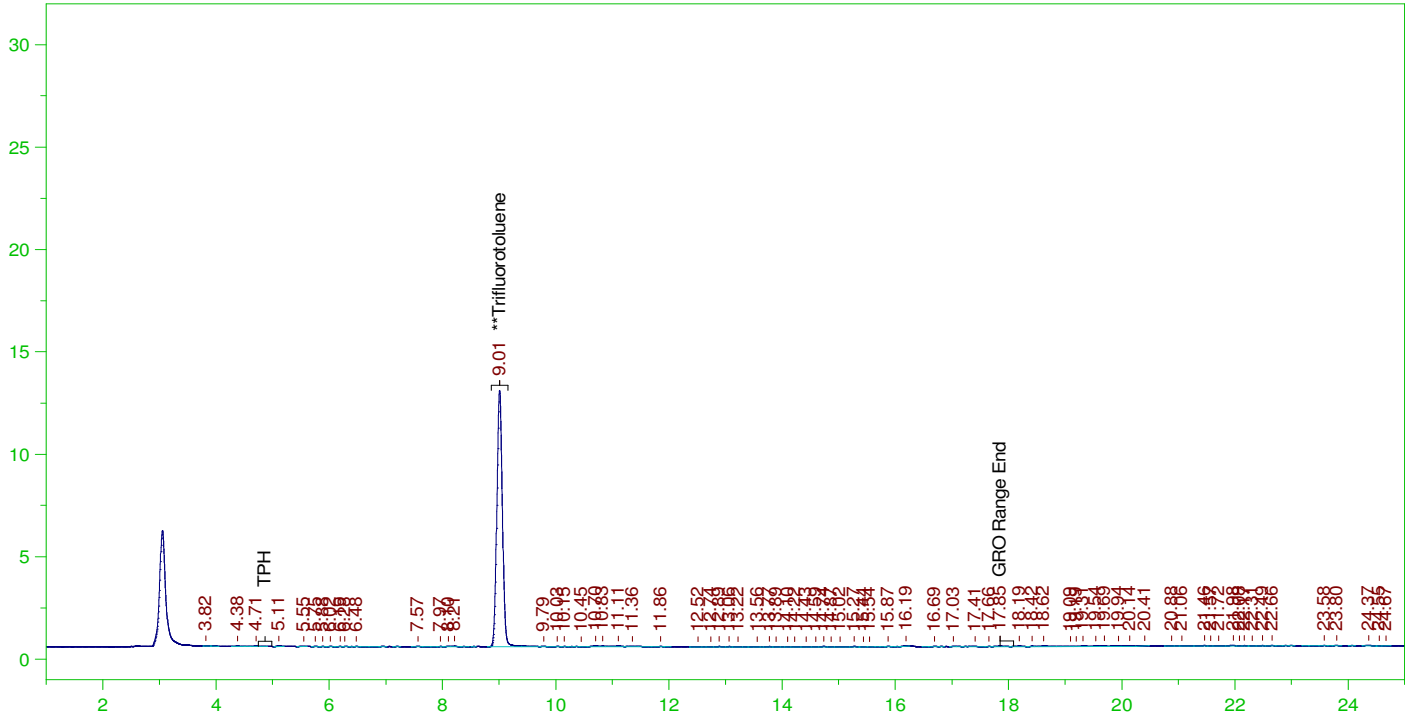
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.008	25.	19.09	76.36

C6 to C10 Area:18397.41 C6 to C10 Amount: 3.754654  
TPH Area:151846.4 TPH Amount: 31.77784

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0031.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0031.RAW  
 Date & Time Acquired: 2/24/2022 4:06:47 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

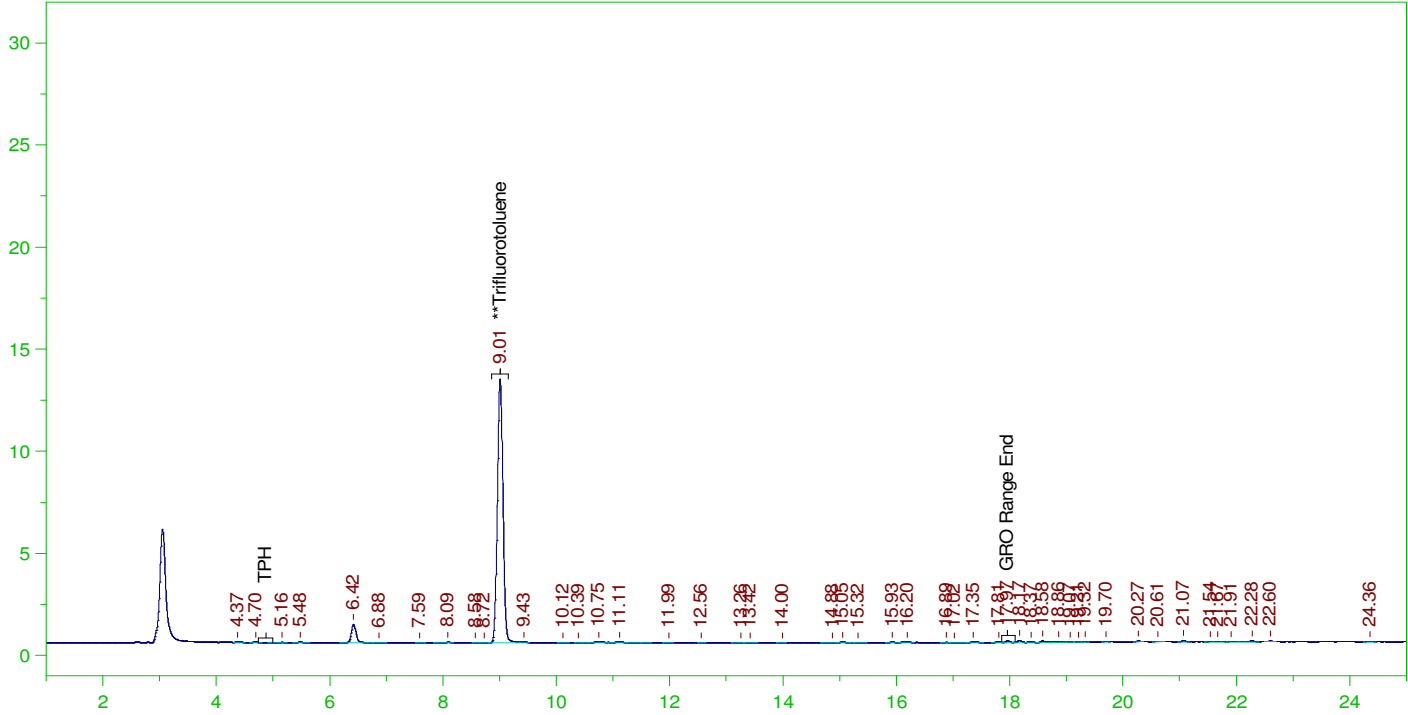
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	125.	93.25	74.6

C6 to C10 Area:5757.555 C6 to C10 Amount: 5.875183  
 TPH Area:10671.44 TPH Amount: 11.16639

ERH2551 (RHMW2254-01 Bailer)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0032.RAW

B22021435-022G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-022G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0032.RAW  
Date & Time Acquired: 2/24/2022 4:40:50 AM  
Method File: G:\Org\VAR\Methods\211208G1435-22DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

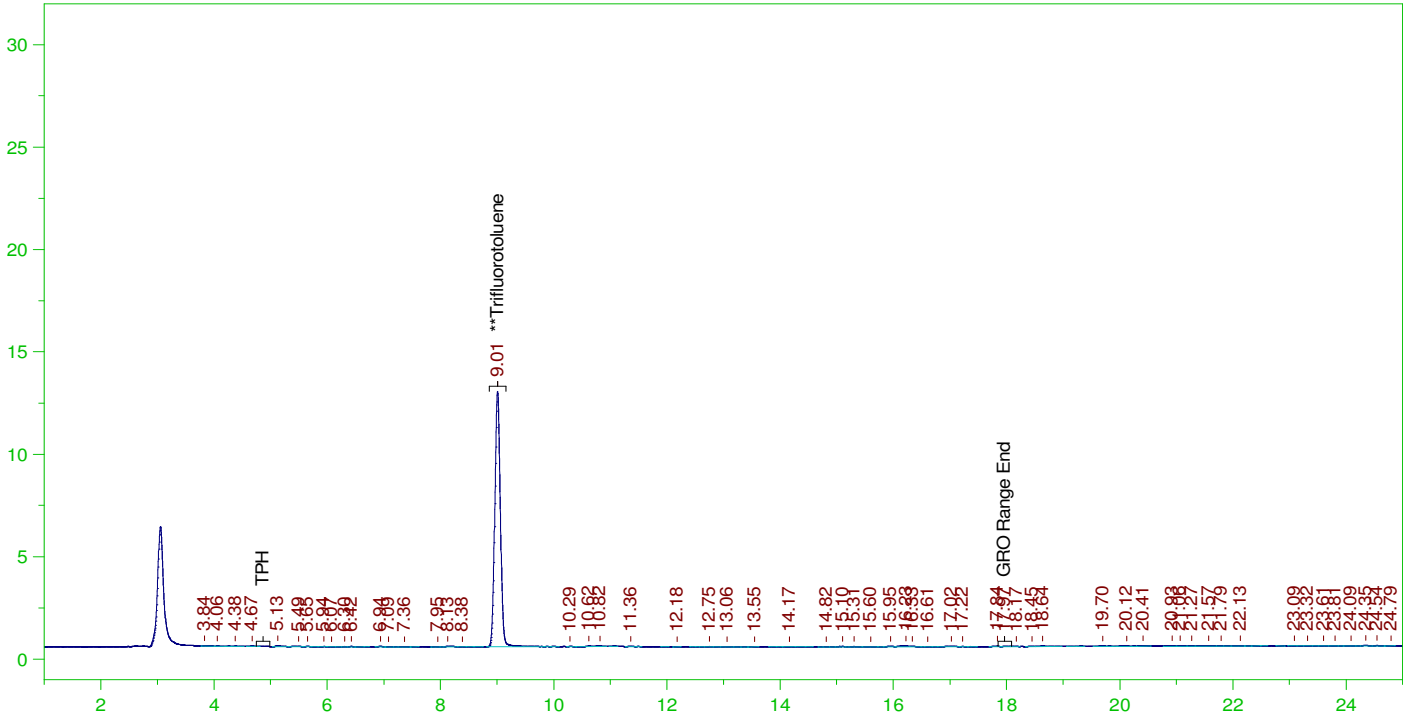
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	25.	19.189	76.76

C6 to C10 Area:10432.29 C6 to C10 Amount: 2.129085  
TPH Area:14452.05 TPH Amount: 3.024471

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0033.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0033.RAW  
 Date & Time Acquired: 2/24/2022 5:14:53 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

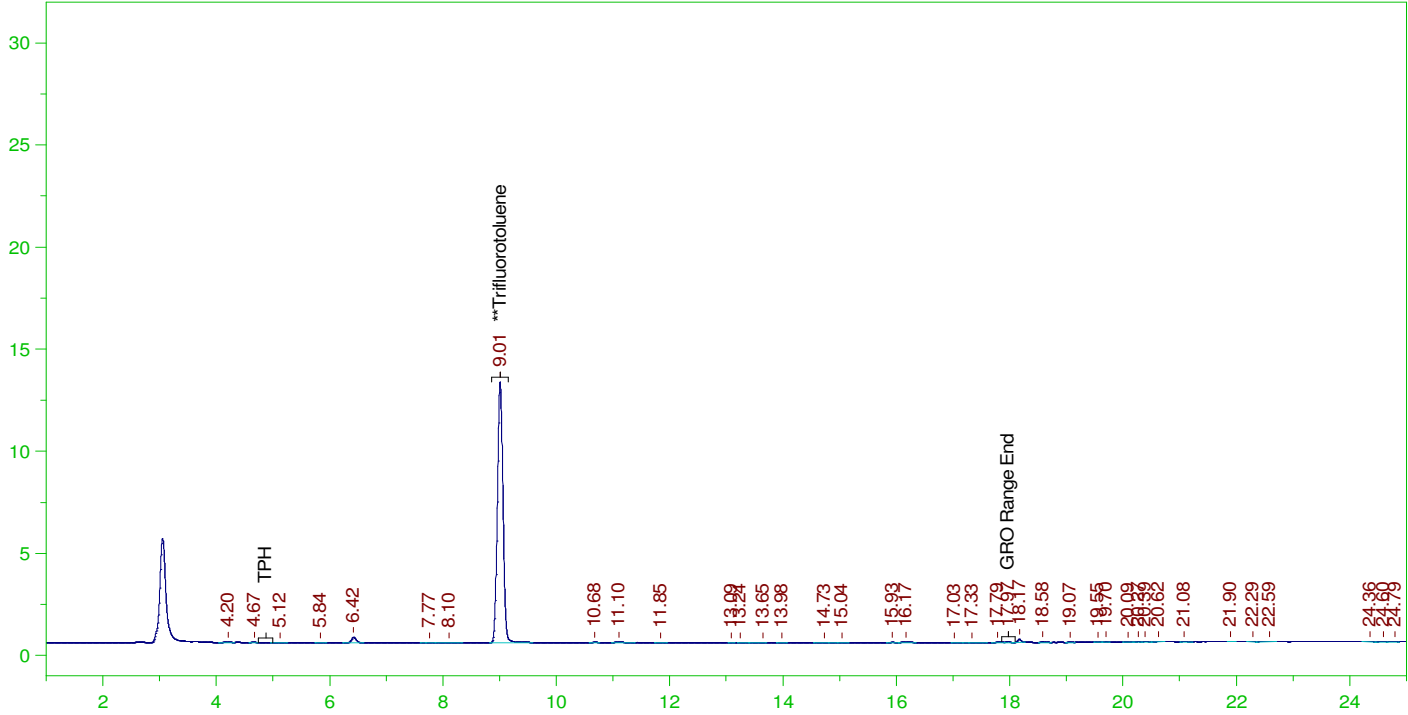
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	125.	92.787	74.23

C6 to C10 Area:5122.01 C6 to C10 Amount: 5.226654  
 TPH Area:8544.969 TPH Amount: 8.941295

ERH2553 (RHMW2254-01 Low Flow)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0034.RAW

B22021435-027G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-027G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0034.RAW  
Date & Time Acquired: 2/24/2022 5:48:55 AM  
Method File: G:\Org\VAR\Methods\211208G1435-27DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

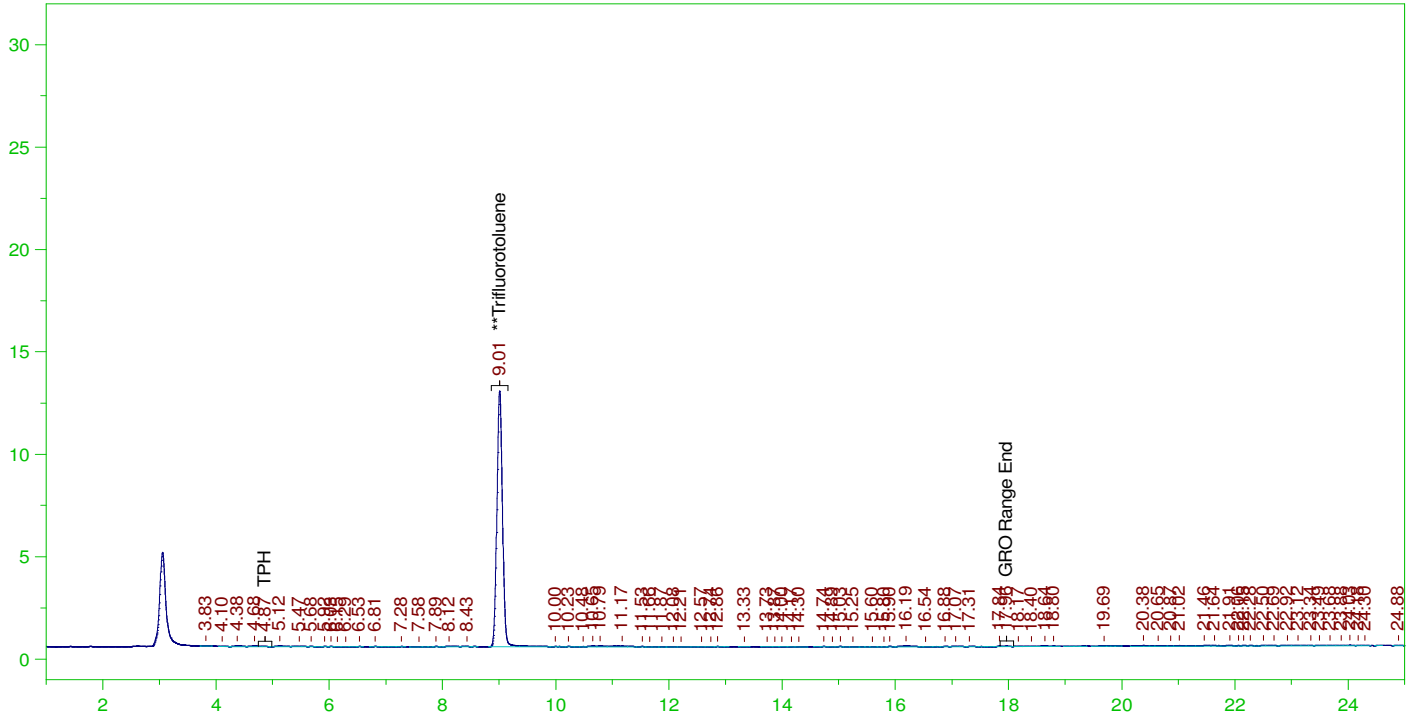
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.009	25.	18.933	75.73

C6 to C10 Area:4125.326 C6 to C10 Amount: 0.8419215  
TPH Area:6877.005 TPH Amount: 1.439194

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0035.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0035.RAW  
 Date & Time Acquired: 2/24/2022 6:22:58 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.011	125.	93.104	74.48

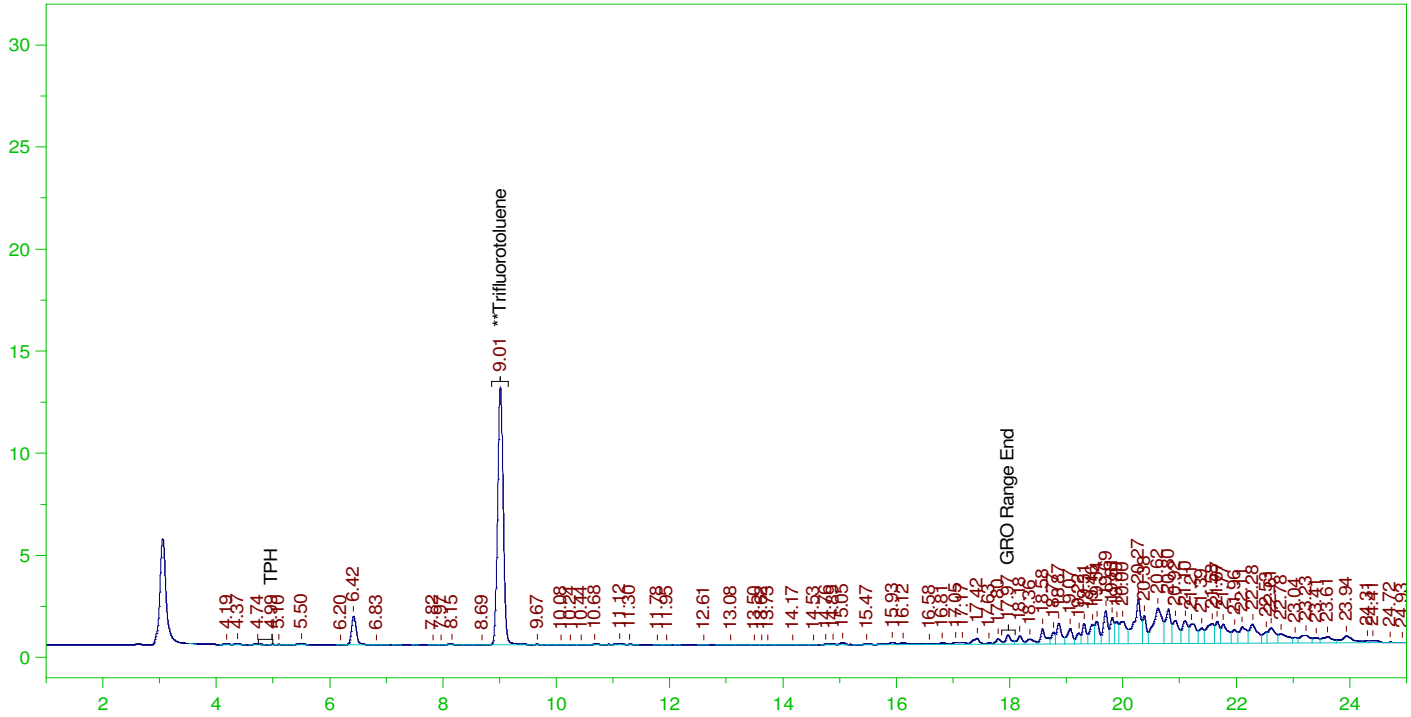
C6 to C10 Area:6951.811 C6 to C10 Amount: 7.093838  
 TPH Area:12215.13 TPH Amount: 12.78168



ERH2555 (Sump Audit 3)

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0036.RAW

B22021435-032G ;0223VAR , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021435-032G ;0223VAR , \$HC-8015-GRO-W,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0036.RAW  
Date & Time Acquired: 2/24/2022 6:57:01 AM  
Method File: G:\Org\VAR\Methods\211208G1435-32DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

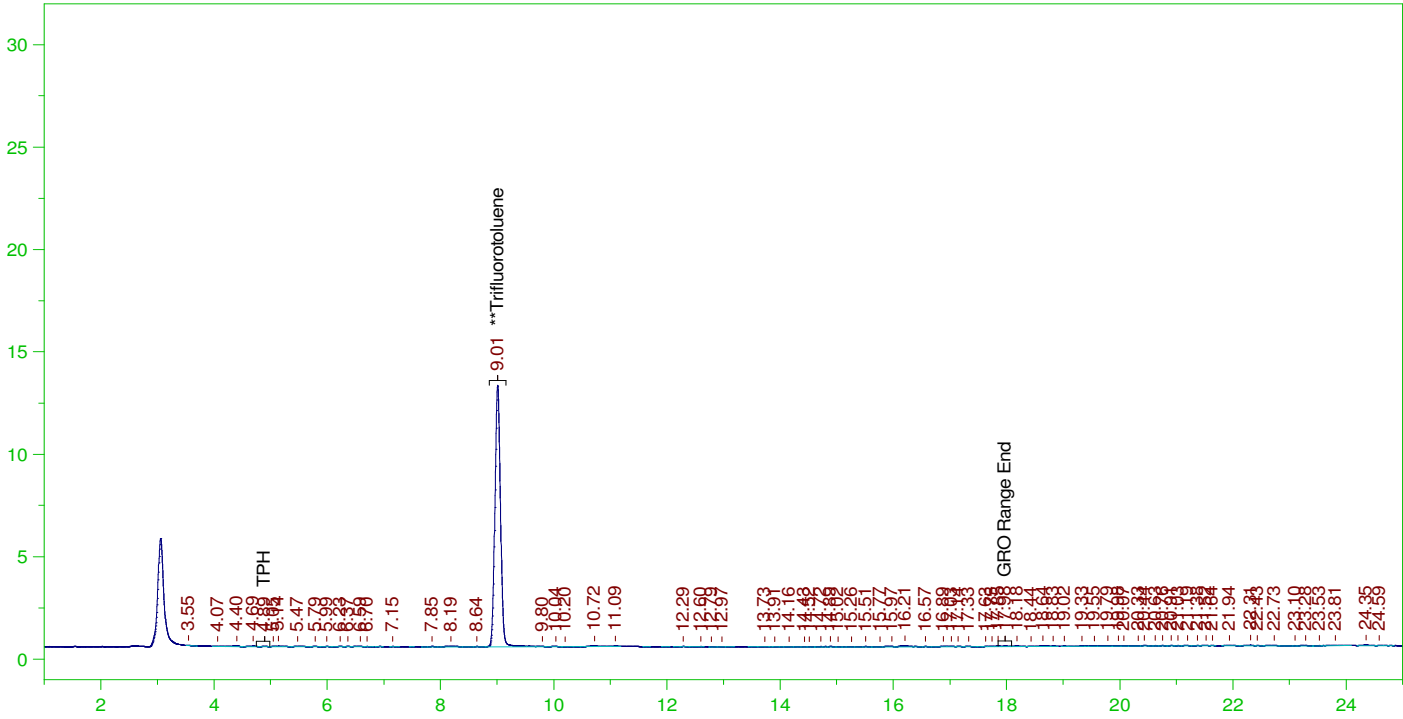
Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.013	25.	18.818	75.27

C6 to C10 Area:25496.59 C6 to C10 Amount: 5.203498  
TPH Area:262733.5 TPH Amount: 54.98388

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0037.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0037.RAW  
 Date & Time Acquired: 2/24/2022 7:31:02 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

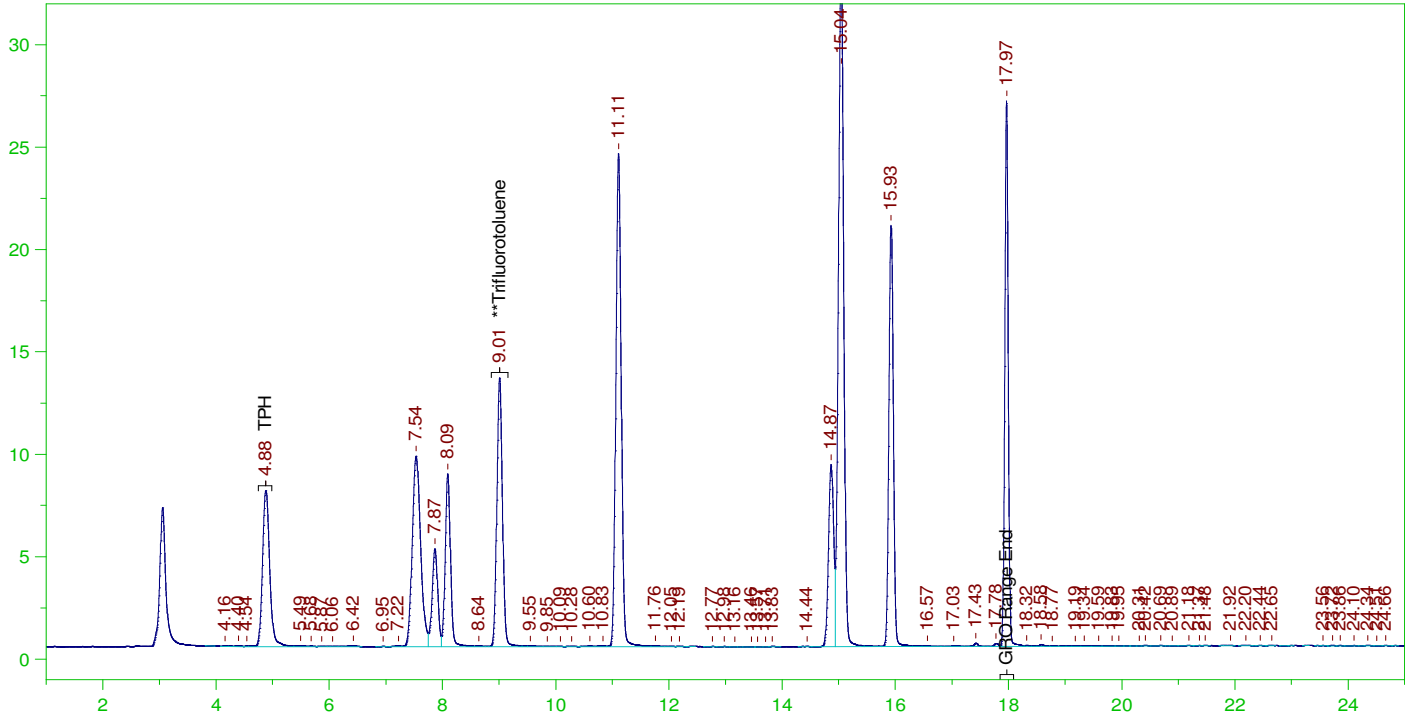
Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	125.	95.386	76.31	-

C6 to C10 Area:6516.425 C6 to C10 Amount: 6.649557  
 TPH Area:12573.6 TPH Amount: 13.15678

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0038.RAW

CCV\_0223VAR38r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0223VAR38r, GQC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0038.RAW  
Date & Time Acquired: 2/24/2022 8:05:03 AM  
Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	98.12	78.5	-

C6 to C10 Area:924764 C6 to C10 Amount: 943.6571  
TPH Area:929236.1 TPH Amount: 972.3351

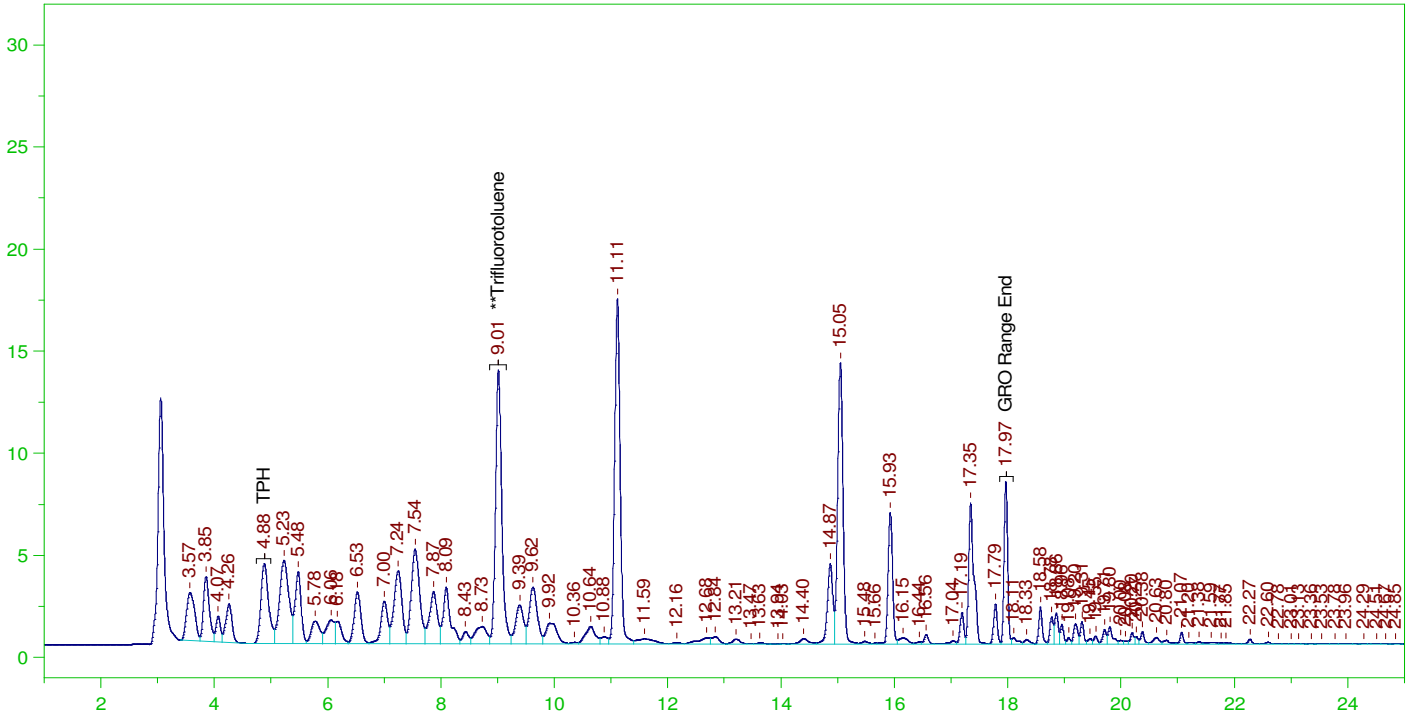
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0038.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	943.66	112.34	85-115
TPH	1000.	972.34	97.23	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.01	125.	98.12	78.5	85-115

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0039.RAW

CCV\_0223VAR39r, GQC ;0223VAR ,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0223VAR39r, GQC ;0223VAR ,  
Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0039.RAW  
Date & Time Acquired: 2/24/2022 8:39:06 AM  
Method File: G:\Org\VAR\Methods\211208GCCV0223\_39DoDB%.MET  
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
Mean RF for TPH: 955.6747  
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	111.29	89.03	-

C6 to C10 Area:814080.4 C6 to C10 Amount: 830.7122  
TPH Area:957432.5 TPH Amount: 1001.839

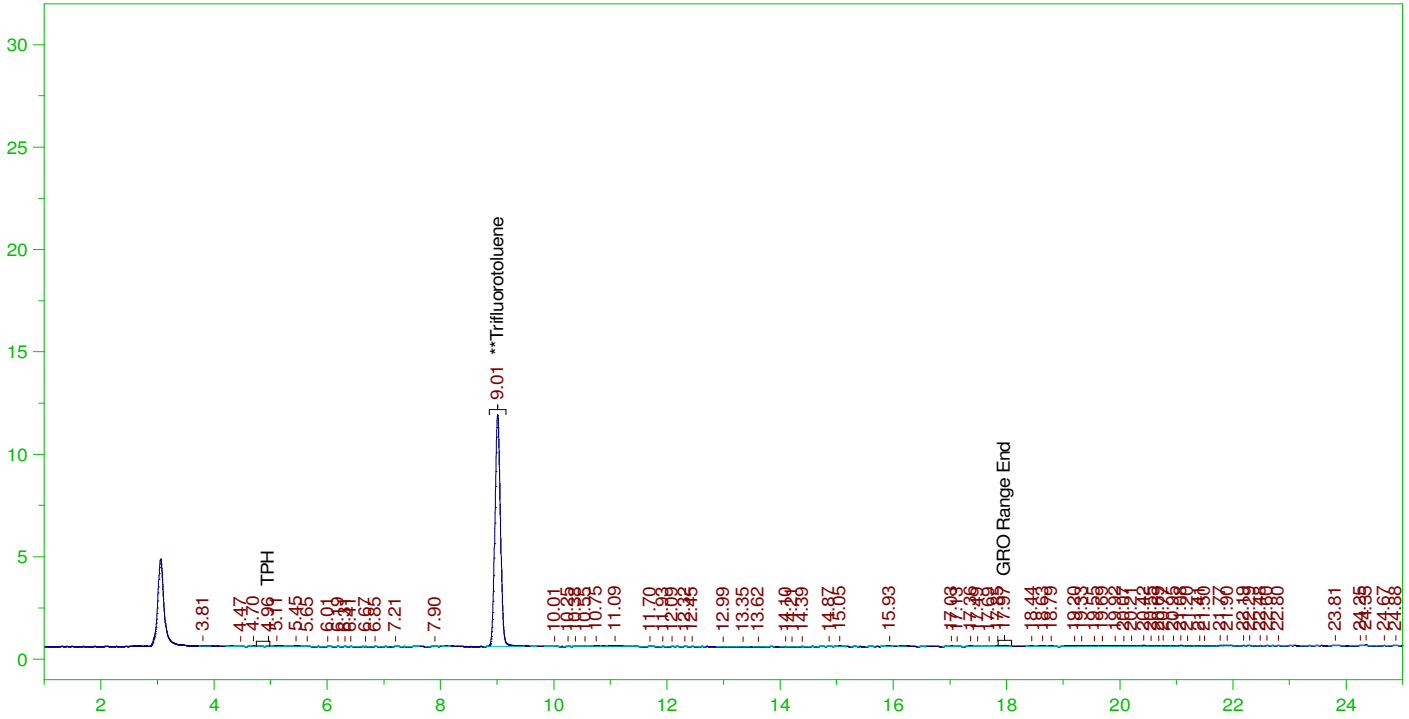
CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0039.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	830.71	98.89	85-115
TPH	1000.	1001.84	100.18	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.013	125.	111.29	89.03	85-115

G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0040.RAW

BLANK



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\VAR\DAT\VAR022322\_b\0223VARB.0040.RAW  
 Date & Time Acquired: 2/24/2022 9:13:08 AM  
 Method File: G:\Org\VAR\Methods\211208GRO\_DoDB.MET  
 Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788  
 Mean RF for TPH: 955.6747  
 Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	9.011	125.	83.998	67.2

C6 to C10 Area:5141.757 C6 to C10 Amount: 5.246805  
 TPH Area:11047.48 TPH Amount: 11.55987

Write Sequence	Insert Entries(Have the first cell for entries select)	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
Data File	Sample Name							
G:\Org\VAR\DAT\VAR022322_b\0223VAR.01r	CCV_0223VAR01r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.02r	CCV_0223VAR02r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.03r	LCS_0223VAR03r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.04r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.05r	MBLK_0223VAR05r, QC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.06r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.07r	B22021435-007D ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.08r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.09r	B22021435-003A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.10r	B22021435-009A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.11r	B22021435-014A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.12r	B22021435-019A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.13r	B22021435-024A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.14r	B22021435-029A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.15r	B22021435-034A ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons

G:\Org\VAR\DAT\VAR022322_b\0223VAR.16r	B22021435-001G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.17r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.18r	B22021435-007DMS, GQC ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.19r	B22021435-007DMSD, GQC ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.20r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.21r	CCV_0223VAR21r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.22r	CCV_0223VAR22r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.23r	LCS_0223VAR23r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.24r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.25r	MBLK_0223VAR25r, QC ;0223VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.26r	B22021435-006G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.27r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.28r	B22021435-012G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.29r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.30r	B22021435-017G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.31r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.32r	B22021435-022G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.33r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.34r	B22021435-027G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.35r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None

G:\Org\VAR\DAT\VAR022322_b\0223VAR.36r	B22021435-032G ;0223VAR , \$HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.37r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.38r	CCV_0223VAR38r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022322_b\0223VAR.39r	CCV_0223VAR39r, GQC ;0223VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022322_b\0223VAR.40r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None

*Josie M Pickard*  
Chemist

Digitally signed by  
Josie Pickard  
Date: 2022.02.24 08:59:17 -07:00





# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** 3GAS160127

**Standard Name:** Alaska Gasoline Calibration Mix Version 4/8/02

**Prep Date:** 1/27/2016

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 213051468

**Balance ID:**

**Comments:** 33% of each gasoline Date prepared is date received Assay ran 2/1/16 on PE1; GRO equals 84% of TPH jmp 2/1/16

**Type:** Neat

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 5 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Alaska Gasoline Calibration Mix Version 4/8/02	<u>8120</u>	5	mL	6/7/2023

Stock Source	Base Units	Amount Added
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# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** GAS210122

**Standard Name:** Unleaded Gasoline Comp. Std.(2.0uL)

**Prep Date:** 1/22/2021

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** Concentration : 4.2ug/ul

**Type:** Secondary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	<u>13323</u>	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
GASH210122	ug/mL	0.84 mL



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** GASH210122

**Standard Name:** Unleaded Gasoline Composite

**Prep Date:** 1/22/2021

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** Concentration : 50,000 ug/ml

**Type:** Primary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	<u>13323</u>	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
3GAS160127	ug/mL	0.5022 g



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** GASL211208

**Standard Name:** Low Gasoline Std.

**Prep Date:** 12/8/2021

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** concentration 0.42ug/ul

**Type:** Secondary

**Prep By:** Josie Pickard

**Status:** Open

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	<u>14400</u>	0.9	mL	6/7/2023

Stock Source	Base Units	Amount Added
GAS210122	ug/mL	0.1 mL



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** GQC201214

**Standard Name:** Gasoline Composite Mix (1.68uL)

**Prep Date:** 12/14/2020

**Exp Date:** 4/2/2030

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 220031562

**Balance ID:**

**Comments:** 5000 ug/mL in MeOH Date prepared is date received; Assay run 4/1/21 on Pe1 GRO range equals 85% jmp, mistyped the date received. The date received was 12/17/20 jmp

**Type:** Primary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 5 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Composite Mix	<u>13338</u>	5	mL	4/2/2030

Stock Source	Base Units	Amount Added
GQC201214	ug/mL	5 mL



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** GROS200921

**Standard Name:** Gro Stock Standard Mt.Gro

**Prep Date:** 9/21/2020

**Exp Date:** 3/28/2029

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 219031408

**Balance ID:**

**Comments:** 10 Component Mix (varing concentrations) 100 mg/ml

**Type:** Primary

**Prep By:** Josie Pickard

**Status:** Open

**Final Volume:** 2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Standard	<u>13090</u>	2	mL	3/28/2029

Stock Source	Base Units	Amount Added
GROS200921	ug/mL	2 mL



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** TFT211208  
**Standard Name:** TFT (1.05uL)  
**Prep Date:** 12/8/2021  
**Exp Date:** 9/10/2029  
**Department:** GCVOA  
**Vendor:**  
**Lot Number:**  
**Balance ID:**  
**Comments:** Final concentration : 1.0mg/mL

**Type:** Secondary  
**Prep By:** Josie Pickard  
**Status:** New

**Final Volume:** 2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	<u>14400</u>	1.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFTS210607	ug/mL	0.1 mL



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** TFTL211208

**Standard Name:** TFTL

**Prep Date:** 12/8/2021

**Exp Date:** 9/10/2029

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** Final concentration :0.01mg/mL

**Type:** Secondary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	<u>14400</u>	0.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFTM211208	ug/mL	0.1 mL





# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** TFTM211208

**Standard Name:** TFTM

**Prep Date:** 12/8/2021

**Exp Date:** 9/10/2029

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** Final concentration :0.1mg/mL

**Type:** Secondary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	<u>14400</u>	0.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFT211208	ug/mL	0.1 mL



# Analytical RunID VARIAN1\_211208B Standards Traceability Report

**Standard ID:** TFTS210607  
**Standard Name:** TFT Stock  
**Prep Date:** 6/7/2021  
**Exp Date:** 9/10/2029  
**Department:** GCVOA  
**Vendor:** Accustandard  
**Lot Number:** 219091095  
**Balance ID:**  
**Comments:** 20mg/ml in Meoh Date prepared is date received.

**Type:** Primary  
**Prep By:** Josie Pickard  
**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
a,a,a-Trifluorotoluene	<u>13921</u>	10	mL	9/10/2029

Stock Source	Base Units	Amount Added
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125 Market Street  
New Haven, CT 06513  
USA



AccuStandard® Inc.

Tel: (203)786-5296  
Fax: (203)786-5287  
www.AccuStandard.com

# CERTIFICATE OF ANALYSIS

Catalog No: GRO-AK-101-GCS-R1

Description: Alaska Gasoline Calibration Mix Version 4/8/02

Lot: 213051468

Solvent: N/A

Hazards: **HIGHLY FLAMMABLE** - Refer to SDS for safety info

Date Certified: Jun 7, 2013

Expiration: Jun 7, 2023

Sample Size: 1 mL

Components: 3

Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration* (%w/w)	Certified Analyte Concentration* (%w/w)
Gasoline - Regular, unleaded	8006-61-9	Tech Mix	33.30	33.30
Gasoline - Plus, unleaded	8006-61-9	Tech Mix	33.40	33.40
Gasoline - Premium, unleaded	8006-61-9	Tech Mix	33.30	33.30

ID #: 8120

Opened:

Alaska Gasoline Calibration Mix Version 4/8/02

Expires: 6/7/2023

Rec'd 1/27/2016

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

\* All weights are traceable through NIST, Test No. 822-275872-11

† Certified Analyte Concentration = Purity x Prepared Concentration. The uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:

A comma (,) is used to separate units of one-thousand or greater.

A period (.) is used as a decimal place marker.

See reverse side for additional information.

Certified by:

Larry Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-OR-010-001  
Rev. 011

Tosiu

# CERTIFICATE OF ANALYSIS

**Catalog No:** GRO-AK-101-GCS  
**Description:** Gasoline Composite Mix  
**Lot:** 220031562  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Apr 2, 2020  
**Expiration:** Apr 2, 2030  
**Sample Size:** 1 mL  
**Components:** 3  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



Component	CAS #	Purity %	Prepared Concentration <sup>2</sup>	Certified Analyte Concentration <sup>1</sup>
		(GC/MS)	(µg/mL)	(µg/mL)
Gasoline - Premium, unleaded	N/A	Tech Mix	1660	1660
Gasoline - Regular, leaded	N/A	Tech Mix	1674	1674
Gasoline - Regular, unleaded	N/A	Tech Mix	1673	1673

ID #: 13338

Opened: \_\_\_\_\_

Gasoline Composite Mix

Expires: 4/2/2030

Rec'd: 12/17/2020

Energv Laboratories Inc 1120 So. 27th Street

Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: \_\_\_\_\_

Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

# CERTIFICATE OF ANALYSIS

**Catalog No:** M-602-SS-100X  
**Description:** a,a,a-Trifluorotoluene  
**Lot:** 219091095

**Solvent:** Methanol

**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Sep 10, 2019  
**Expiration:** Sep 10, 2029  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

**Certified Reference Material**



Component	CAS #	Purity % (GC/MS)	Prepared Concentration <sup>2</sup> (mg/mL)	Certified Analyte Concentration <sup>1</sup> (mg/mL)
a,a,a-Trifluorotoluene	98-08-8	99.9	20.01	19.99

**ID #: 13921**

Opened: \_\_\_\_\_

a,a,a-Trifluorotoluene

**Expires: 9/10/2029**

Rec'd: 6/7/2021

Enerav Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: \_\_\_\_\_

Larry Decker, Organic QC Manager



# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** 3GAS160127

**Standard Name:** Alaska Gasoline Calibration Mix Version 4/8/02

**Prep Date:** 1/27/2016

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 213051468

**Balance ID:**

**Comments:** 33% of each gasoline Date prepared is date received Assay ran 2/1/16 on PE1; GRO equals 84% of TPH jmp 2/1/16

**Type:** Neat

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 5 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Alaska Gasoline Calibration Mix Version 4/8/02	<u>8120</u>	5	mL	6/7/2023

Stock Source	Base Units	Amount Added
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# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** GAS220104

**Standard Name:** Unleaded Gasoline Comp. Std.(2.0uL)

**Prep Date:** 1/4/2022

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** Concentration : 4.2ug/ul

**Type:** Secondary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB373	<u>14519</u>	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
GASH210122	ug/mL	0.84 mL



# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** GASH210122

**Standard Name:** Unleaded Gasoline Composite

**Prep Date:** 1/22/2021

**Exp Date:** 6/7/2023

**Department:** GCVOA

**Vendor:**

**Lot Number:**

**Balance ID:**

**Comments:** Concentration : 50,000 ug/ml

**Type:** Primary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	<u>13323</u>	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
3GAS160127	ug/mL	0.5022 g





# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** GQC211012

**Standard Name:** Gasoline Composite Mix (1.68uL)

**Prep Date:** 10/12/2021

**Exp Date:** 4/2/2030

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 220031562

**Balance ID:**

**Comments:** 5000 ug/mL in MeOH Date prepared is date received; Assay run 4/1/21 on Pe1 GRO range equals 85% jmp

**Type:** Primary

**Prep By:** Josie Pickard

**Status:** New

**Final Volume:** 5 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Composite Mix	14373	5	mL	4/2/2030

Stock Source	Base Units	Amount Added
GQC211012	ug/mL	



# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** GROS200921

**Standard Name:** Gro Stock Standard Mt.Gro

**Prep Date:** 9/21/2020

**Exp Date:** 3/28/2029

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 219031408

**Balance ID:**

**Comments:** 10 Component Mix (varing concentrations) 100 mg/ml

**Type:** Primary

**Prep By:** Josie Pickard

**Status:** Open

**Final Volume:** 2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Standard	<u>13090</u>	2	mL	3/28/2029

Stock Source	Base Units	Amount Added
GROS200921	ug/mL	2 mL



# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** TFT220222  
**Standard Name:** TFT (1.05uL)  
**Prep Date:** 2/22/2022  
**Exp Date:** 9/10/2029  
**Department:** GCVOA  
**Vendor:**  
**Lot Number:**  
**Balance ID:**  
**Comments:** Final concentration : 1.0mg/mL

**Type:** Secondary  
**Prep By:** Josie Pickard  
**Status:** New

**Final Volume:** 2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap - EB679	<u>14746</u>	1.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFTS210607	ug/mL	0.1 mL



# Analytical RunID VARIAN1\_220223A Standards Traceability Report

**Standard ID:** TFTS210607  
**Standard Name:** TFT Stock  
**Prep Date:** 6/7/2021  
**Exp Date:** 9/10/2029  
**Department:** GCVOA  
**Vendor:** Accustandard  
**Lot Number:** 219091095  
**Balance ID:**

**Type:** Primary  
**Prep By:** Josie Pickard  
**Status:** New

**Final Volume:** 10 mL

**Comments:** 20mg/ml in Meoh Date prepared is date received.

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
a,a,a-Trifluorotoluene	<u>13921</u>	10	mL	9/10/2029

Stock Source	Base Units	Amount Added
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125 Market Street  
New Haven, CT 06513  
USA



AccuStandard® Inc.

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Fax: (203)786-5287  
www.AccuStandard.com

# CERTIFICATE OF ANALYSIS

**Catalog No:** GRO-AK-101-GCS-R1

**Description:** Alaska Gasoline Calibration Mix Version 4/8/02

**Lot:** 213051468

**Solvent:** N/A

**Hazards:** HIGHLY FLAMMABLE - Refer to SDS for safety info

**Date Certified:** Jun 7, 2013

**Expiration:** Jun 7, 2023

**Sample Size:** 1 mL

**Components:** 3

**Storage Condition:** Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration* (%w/w)	Certified Analyte Concentration* (%w/w)
Gasoline - Regular, unleaded	8006-61-9	Tech Mix	33.30	33.30
Gasoline - Plus, unleaded	8006-61-9	Tech Mix	33.40	33.40
Gasoline - Premium, unleaded	8006-61-9	Tech Mix	33.30	33.30

**ID #:** 8120

**Opened:**

Alaska Gasoline Calibration Mix Version 4/8/02

**Expires:** 6/7/2023

**Rec'd:** 1/27/2016

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\* All weights are traceable through NIST, Test No. 822-275872-11

† Certified Analyte Concentration = Purity x Prepared Concentration. The uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:

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A period (.) is used as a decimal place marker.

See reverse side for additional information.

Certified by:

Larry Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-OR-010-001  
Rev. 011

# CERTIFICATE OF ANALYSIS

**Catalog No:** GRO-AK-101-GCS  
**Description:** Gasoline Composite Mix  
**Lot:** 220031562

**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Apr 2, 2020  
**Expiration:** Apr 2, 2030  
**Sample Size:** 1 mL  
**Components:** 3  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



Component	CAS #	Purity % (GC/MS)	Prepared Concentration <sup>2</sup> (µg/mL)	Certified Analyte Concentration <sup>1</sup> (µg/mL)
Gasoline - Premium, unleaded	N/A	Tech Mix	1660	1660
Gasoline - Regular, leaded	N/A	Tech Mix	1674	1674
Gasoline - Regular, unleaded	N/A	Tech Mix	1673	1673

**ID #: 14373**

Opened: \_\_\_\_\_

Gasoline Composite Mix

**Expires: 4/2/2030**

Rec'd: 10/12/2021

Energy Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: \_\_\_\_\_

Larry Decker, Organic QC Manager

# CERTIFICATE OF ANALYSIS

**Catalog No:** M-602-SS-100X  
**Description:** a,a,a-Trifluorotoluene  
**Lot:** 219091095

**Solvent:** Methanol

**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Sep 10, 2019  
**Expiration:** Sep 10, 2029  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

**Certified Reference Material**



Component	CAS #	Purity % (GC/MS)	Prepared Concentration <sup>2</sup> (mg/mL)	Certified Analyte Concentration <sup>1</sup> (mg/mL)
a,a,a-Trifluorotoluene	98-08-8	99.9	20.01	19.99

**ID #: 13921**

Opened: \_\_\_\_\_

a,a,a-Trifluorotoluene

**Expires: 9/10/2029**

Rec'd: 6/7/2021

Enerav Laboratories Inc 1120 So. 27th Street  
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: \_\_\_\_\_

Larry Decker, Organic QC Manager