Energy Laboratories Inc

ANALYTICAL RUN Summary

18-Feb-22

Run ID VARIAN1_211208B

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

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%	

Write Sequence Data File	Insert Entries(Have the first cell for entries selecte Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\VAR\DAT\VAR120821_b\1208VAR.60r	CCV_1208VAR60r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.61r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.62r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.63r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.64r	CCV_1208VAR64r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.65r	CCV_1208VAR65r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.66r	CCV_1208VAR66r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.67r	CCV_1208VAR67r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.68r	CCV_1208VAR68r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.69r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.70r	LCS_1208VAR70r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.71r	CCV_1208VAR71r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.72r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0

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

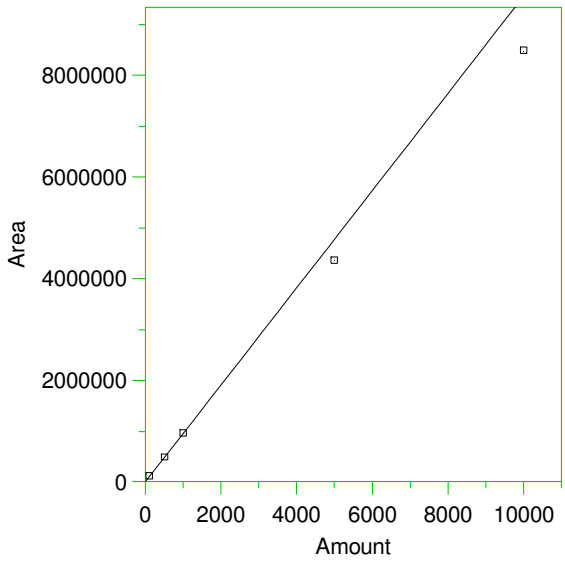
Creator: jmp
Description: Column Restex Rtx 502.2 12/8/21
Reason for change:

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

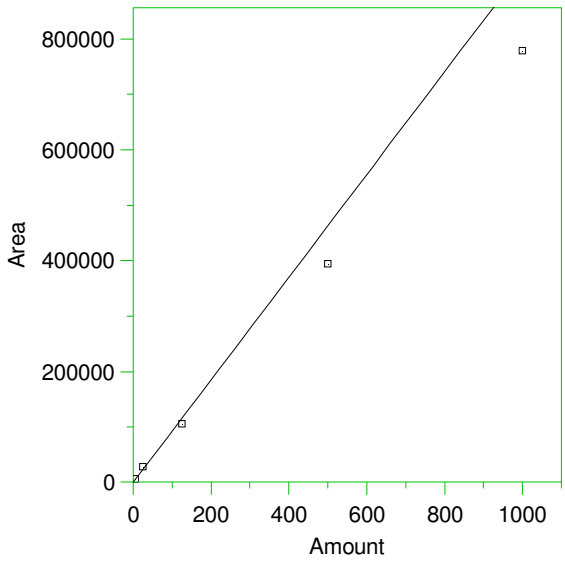
Single peak quantification by area

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

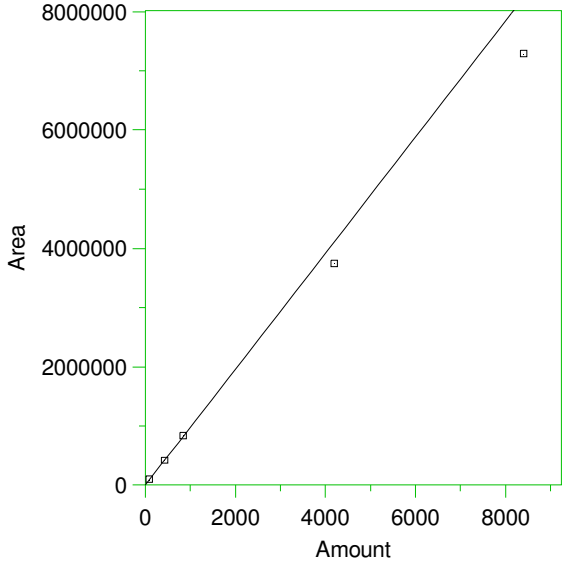
Single peak quantification by area

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

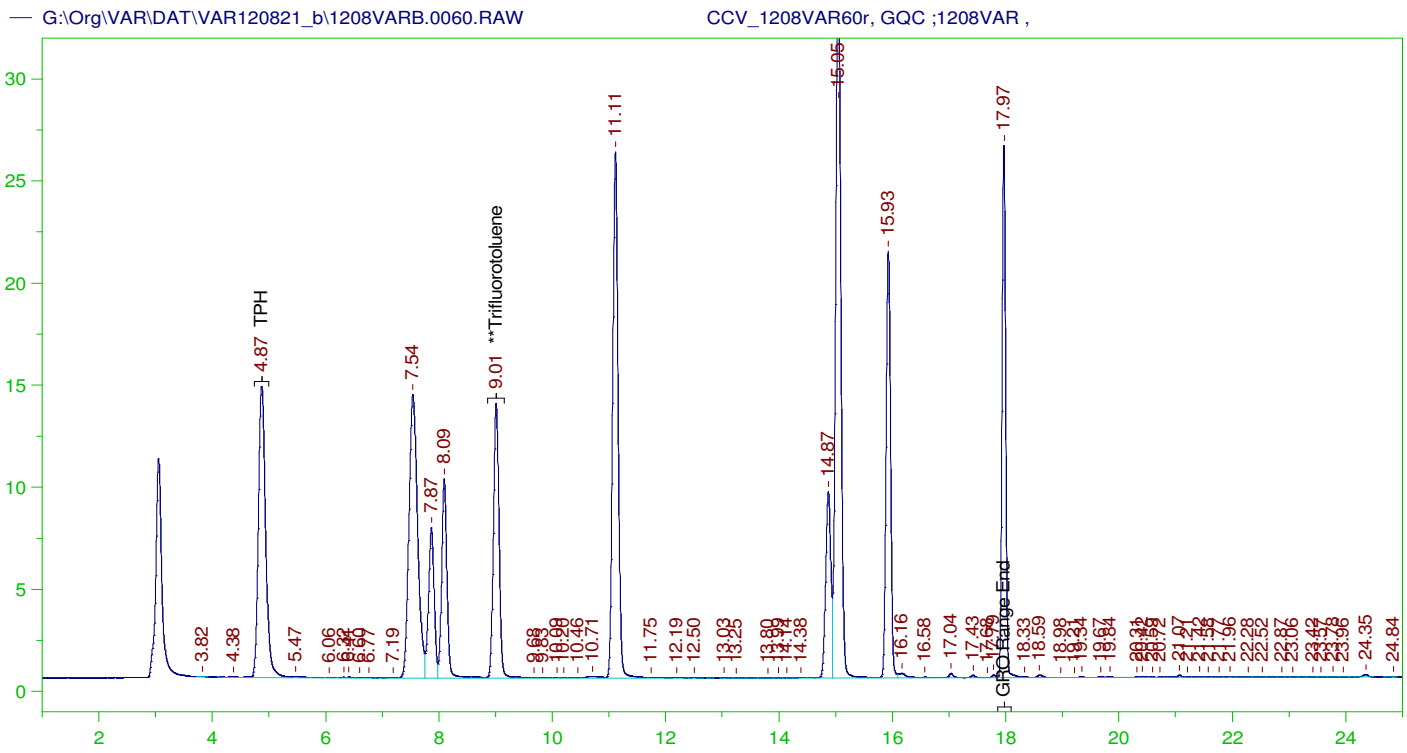
High alarm limit: 1000000
Low alarm limit: 1000
Component constant: 1

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



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

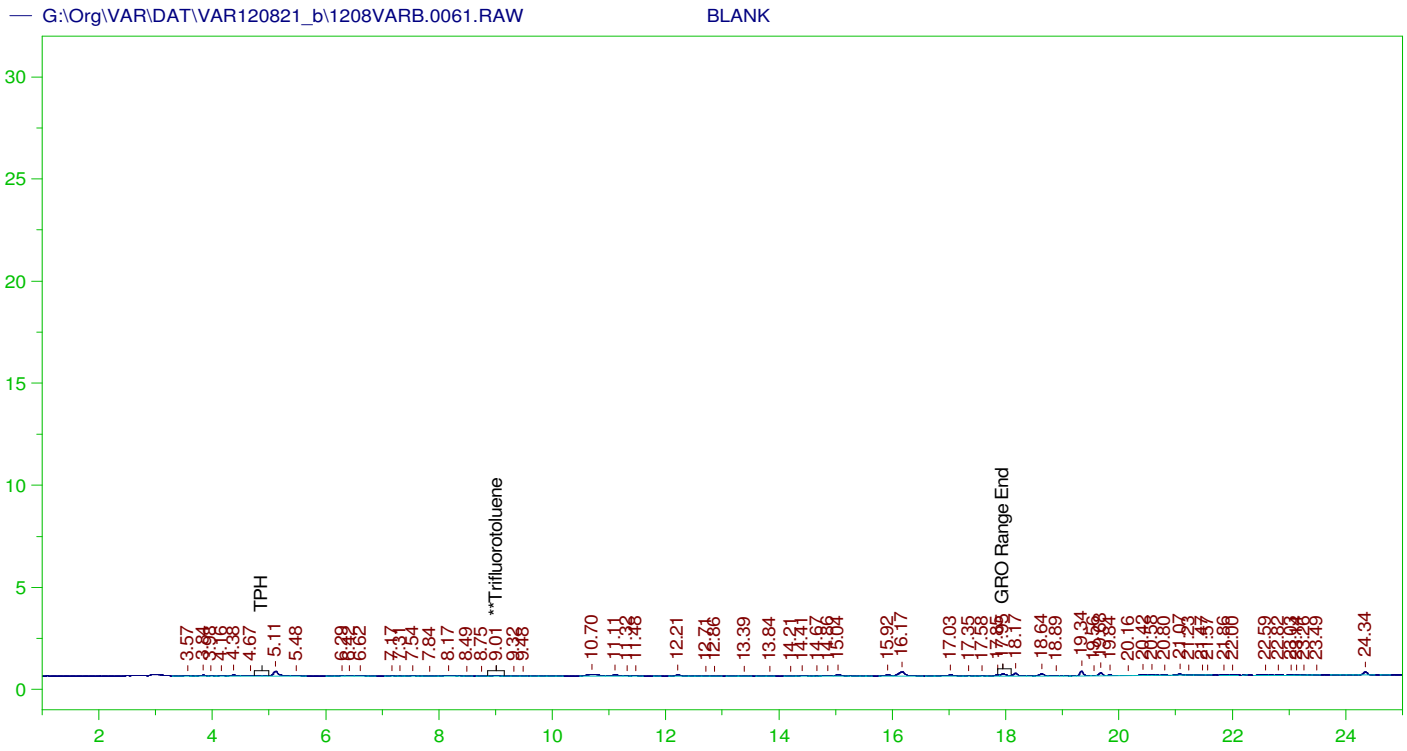
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	100.177	80.14	-

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



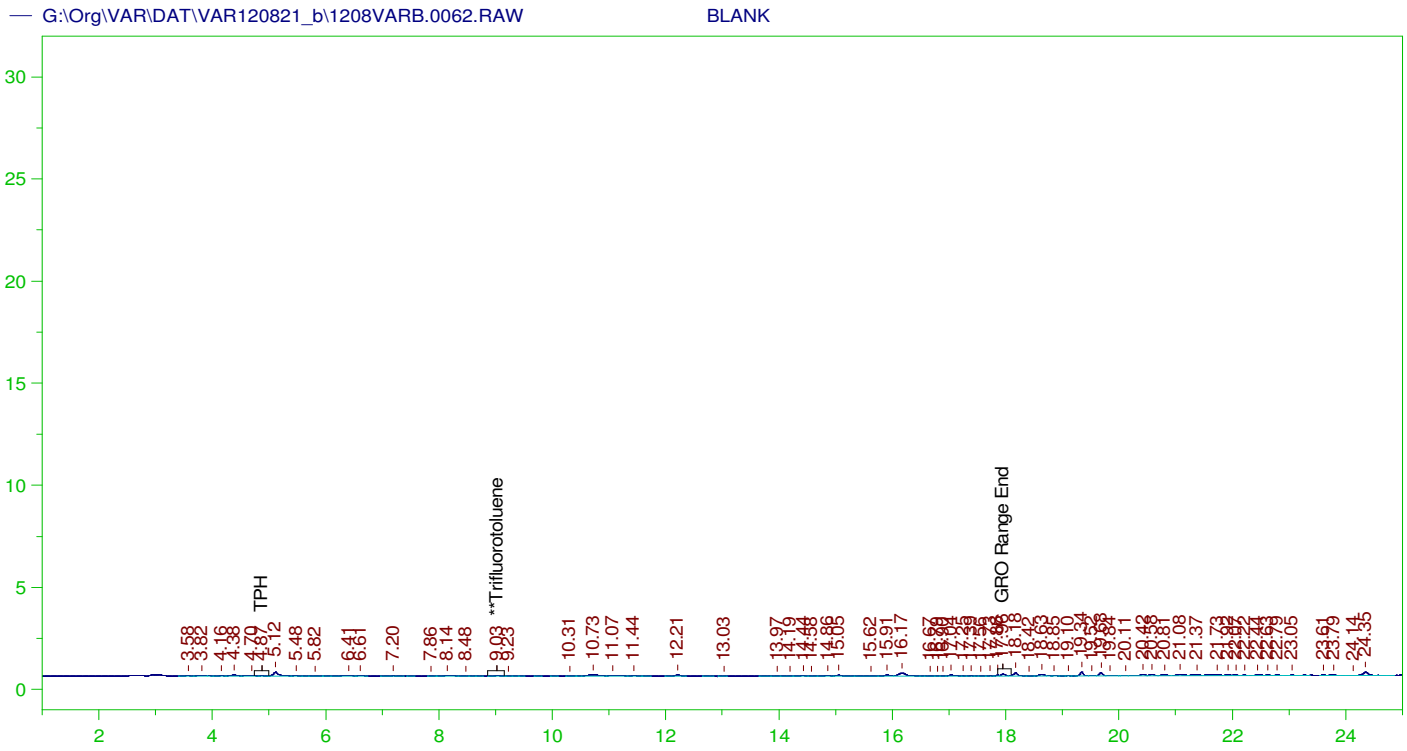
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



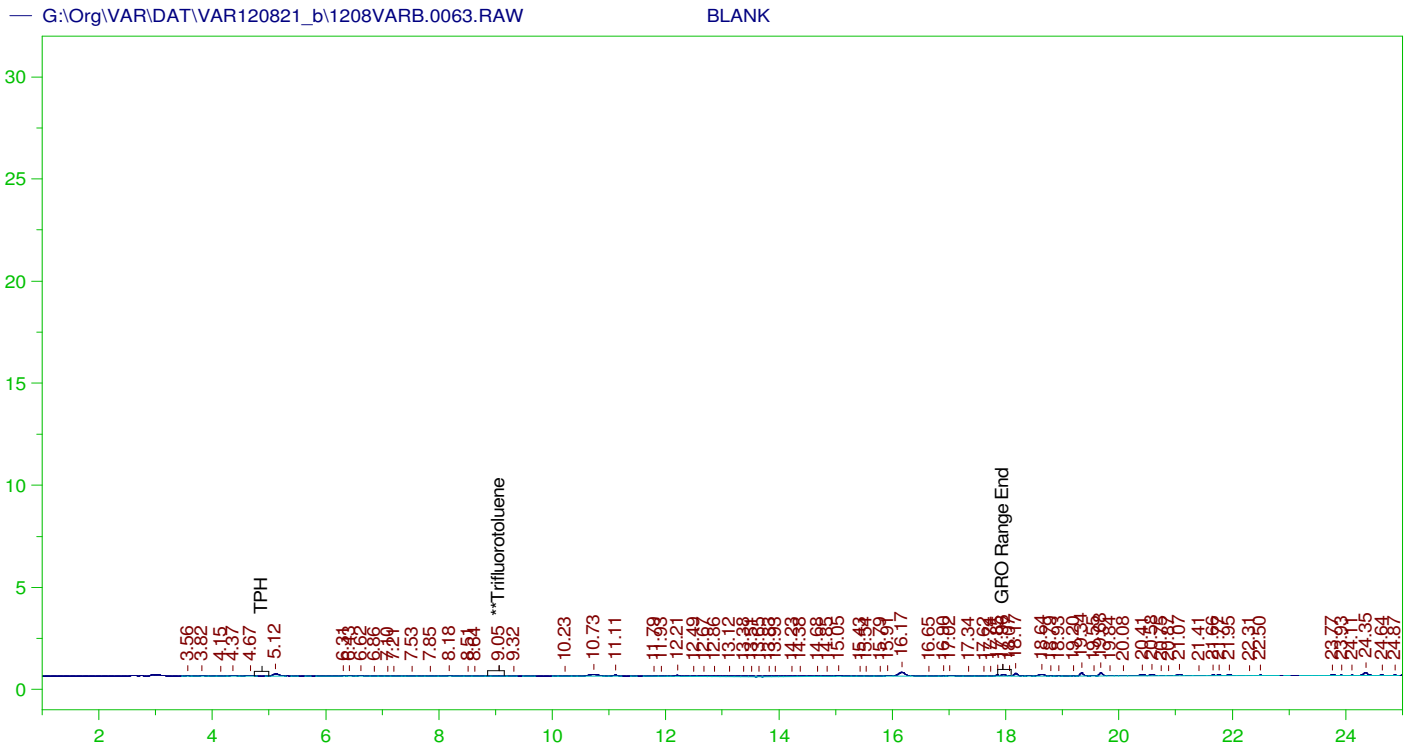
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



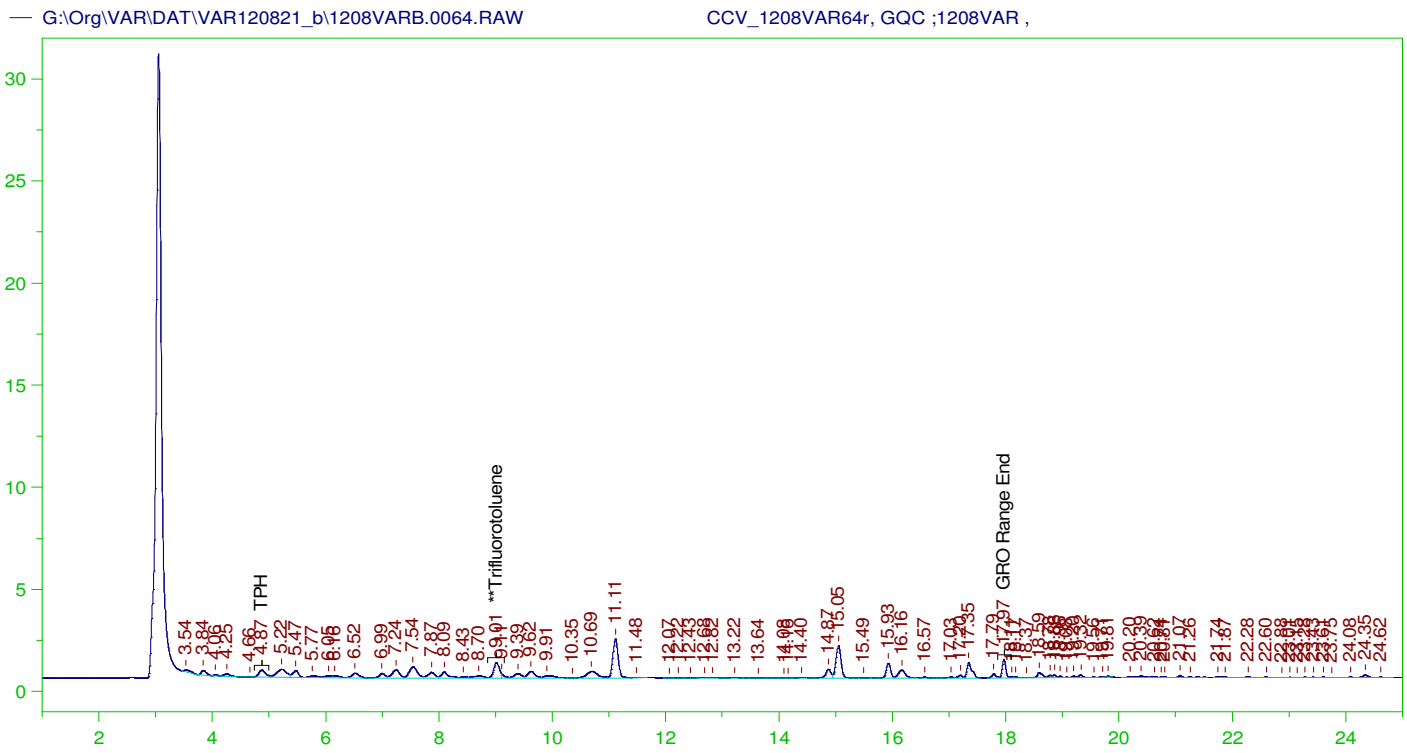
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



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	-

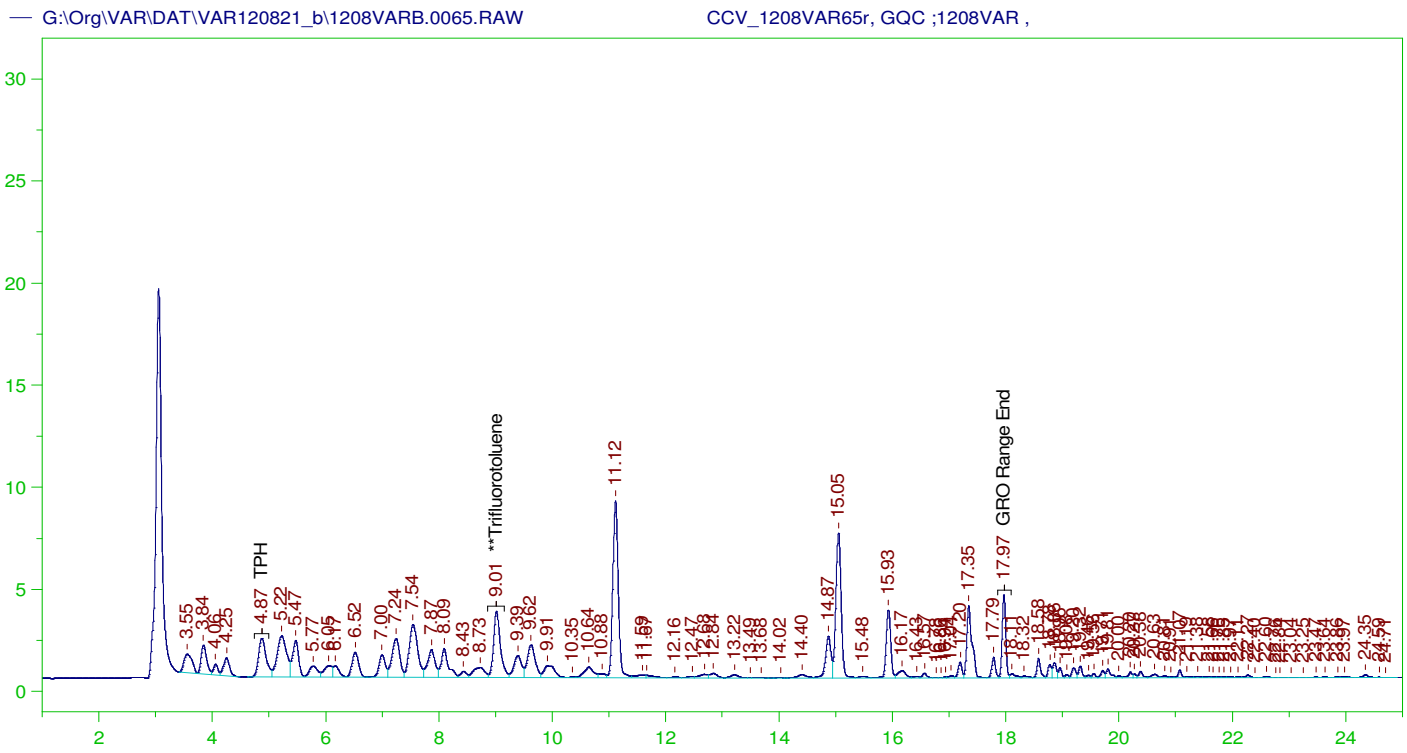
GRO Area:94878.77 GRO Amount: 96.81716
TPH Area:109235.6 TPH Amount: 114.3021

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\Review\064_CCV_1208VAR64r_211208GROG1B%.xls



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

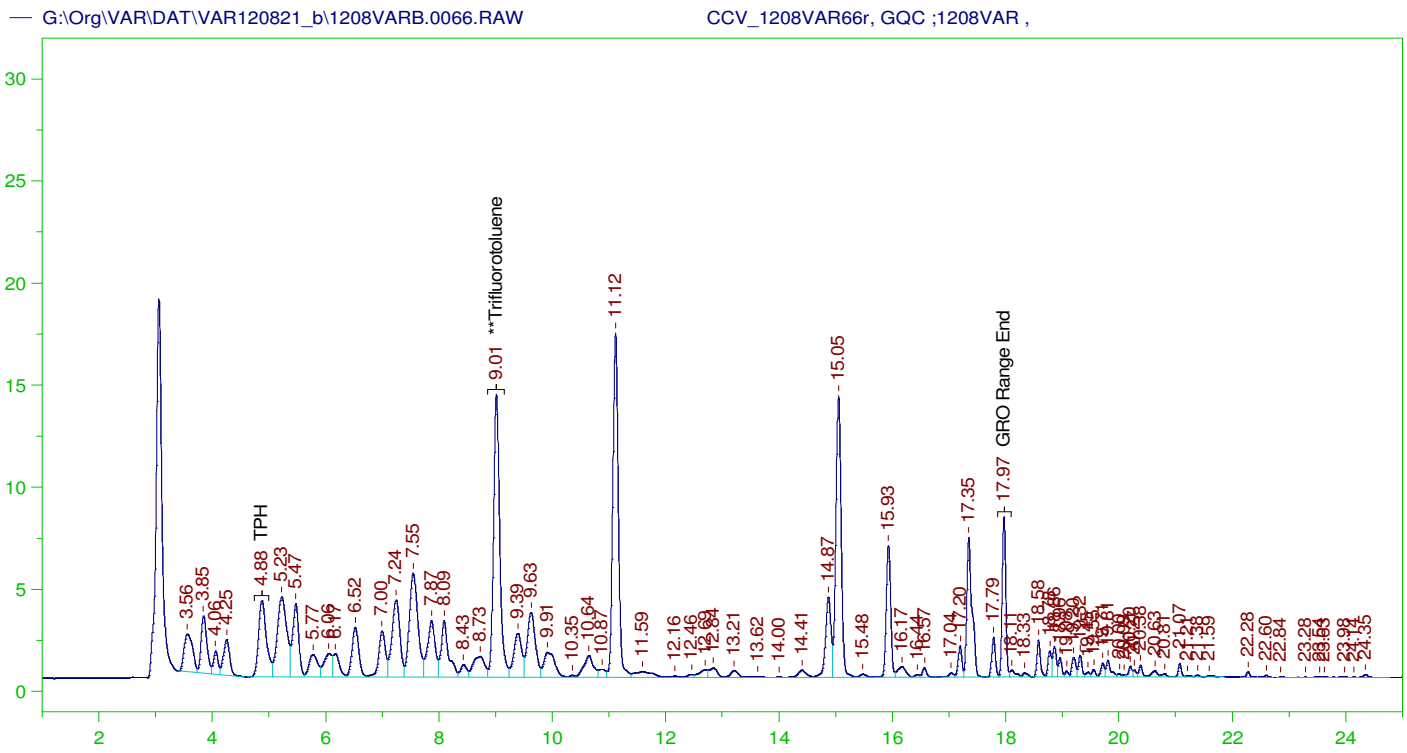
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.015	125.	29.812	23.85	-

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



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	-

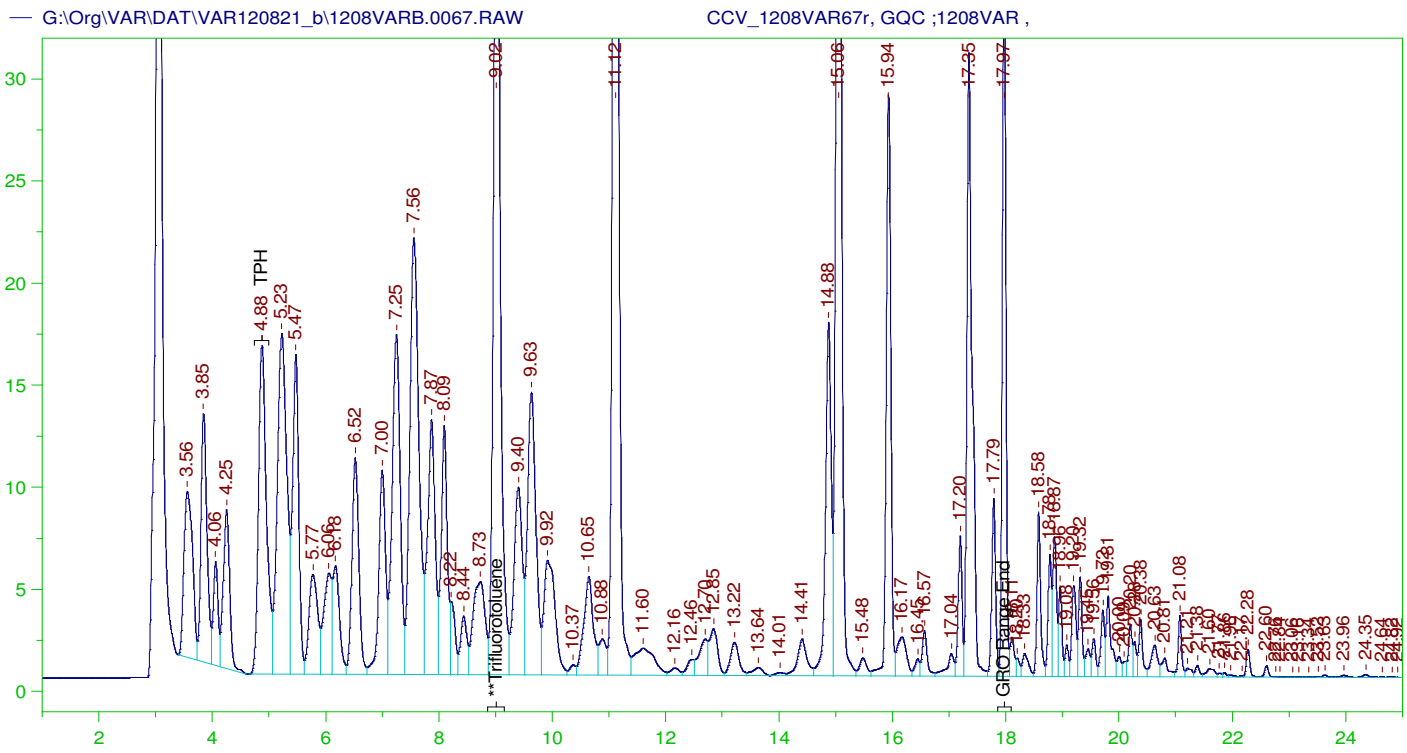
GRO Area:838552.8 GRO Amount: 855.6846
TPH Area:967665.8 TPH Amount: 1012.547

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\Review\066_CCV_1208VAR66r_211208GROG3B%.xls



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	-

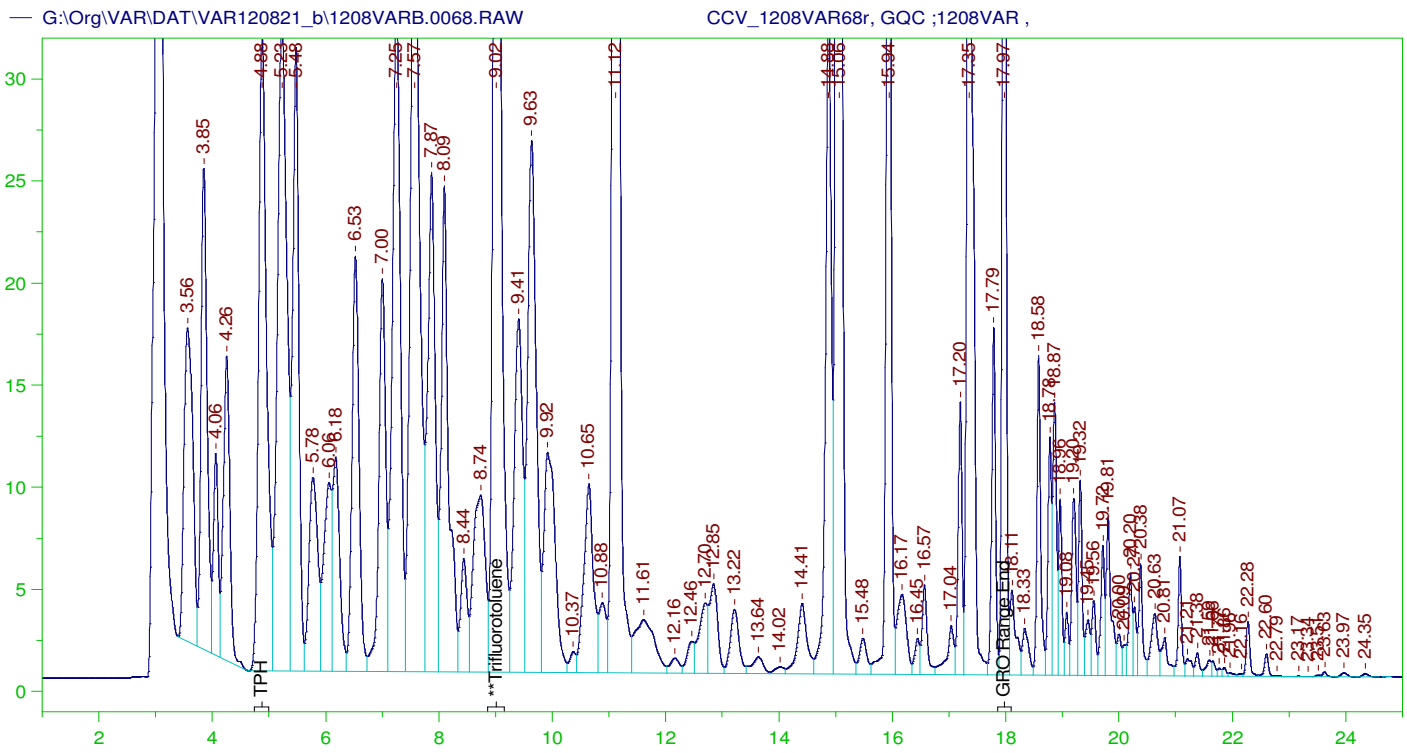
GRO Area:3749824 GRO Amount: 3826.434
TPH Area:4369213 TPH Amount: 4571.862

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\Review\067_CCV_1208VAR67r_211208GROG4B%.xls



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	-

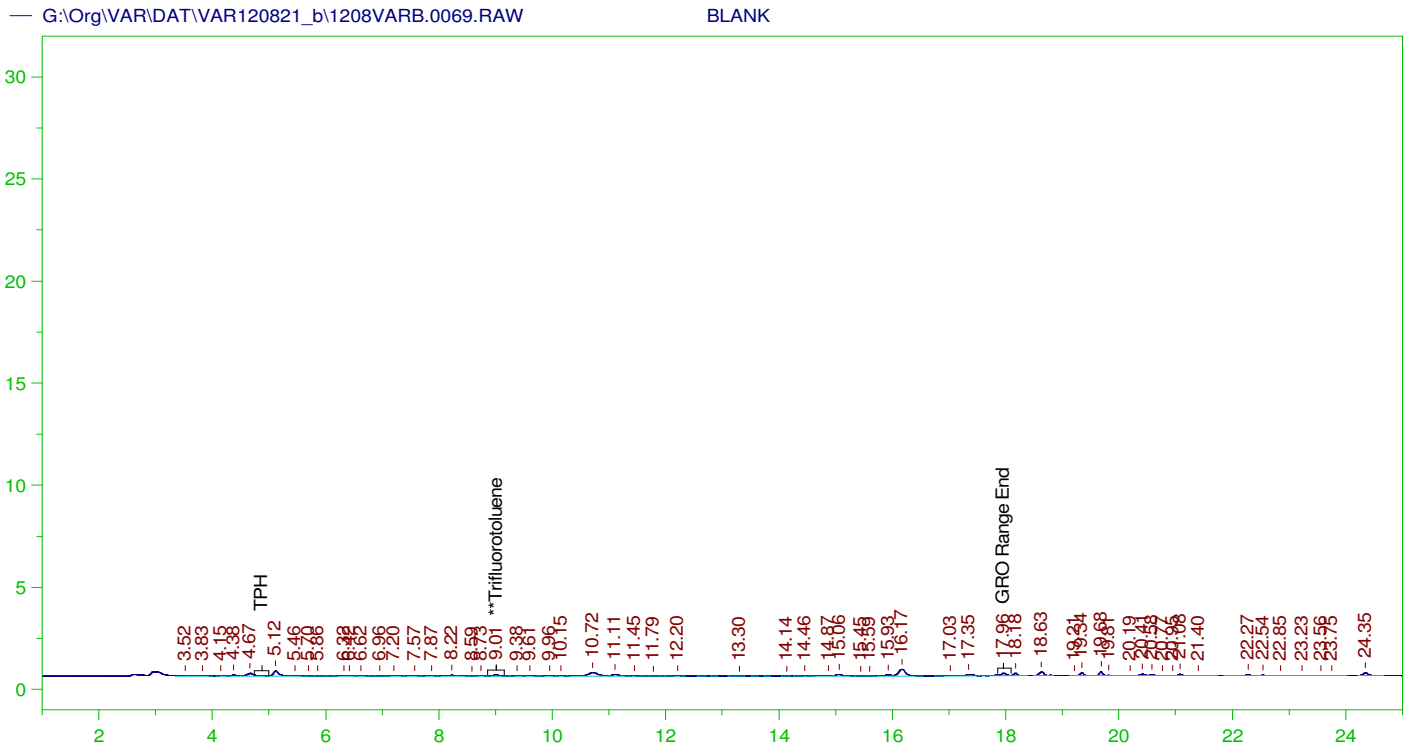
GRO Area:7294716 GRO Amount: 7443.749
TPH Area:8502283 TPH Amount: 8896.629

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\Review\068_CCV_1208VAR68r_211208GROG5B%.xls



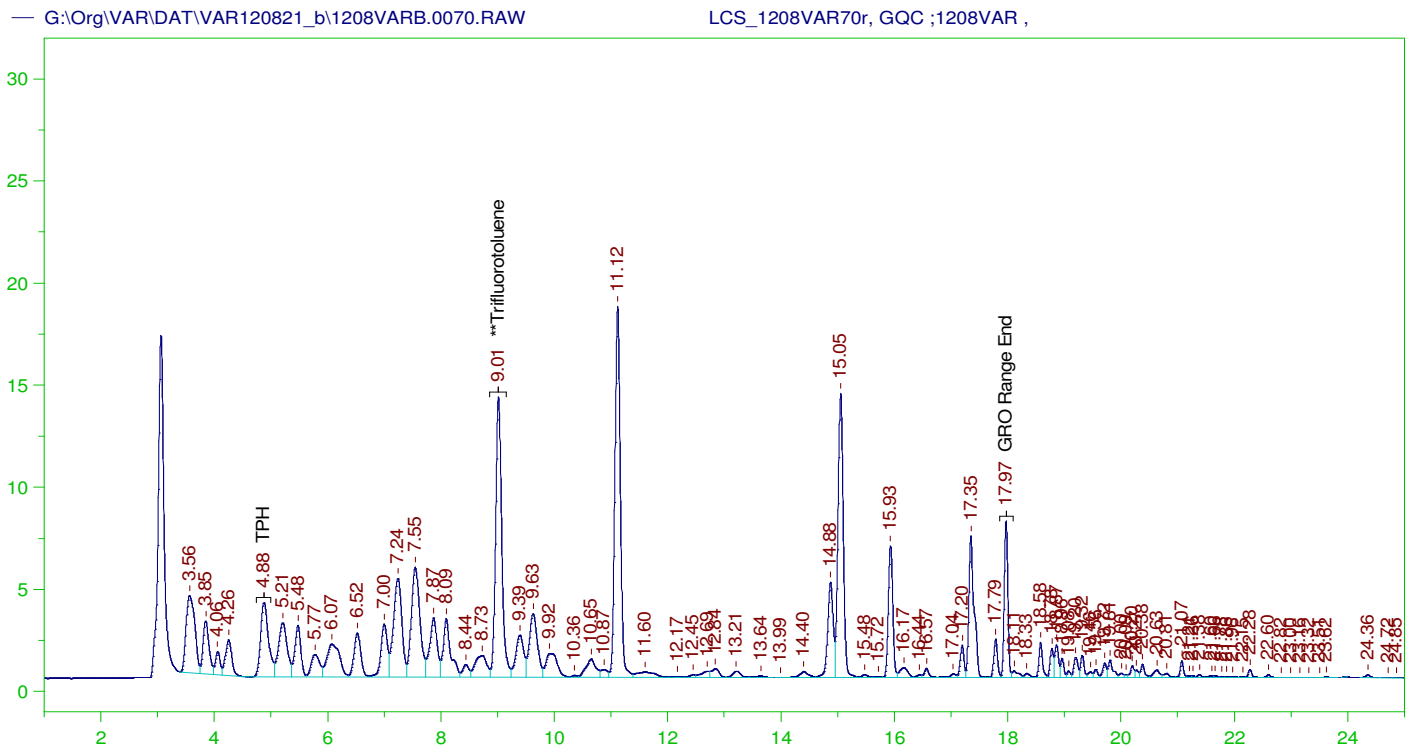
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



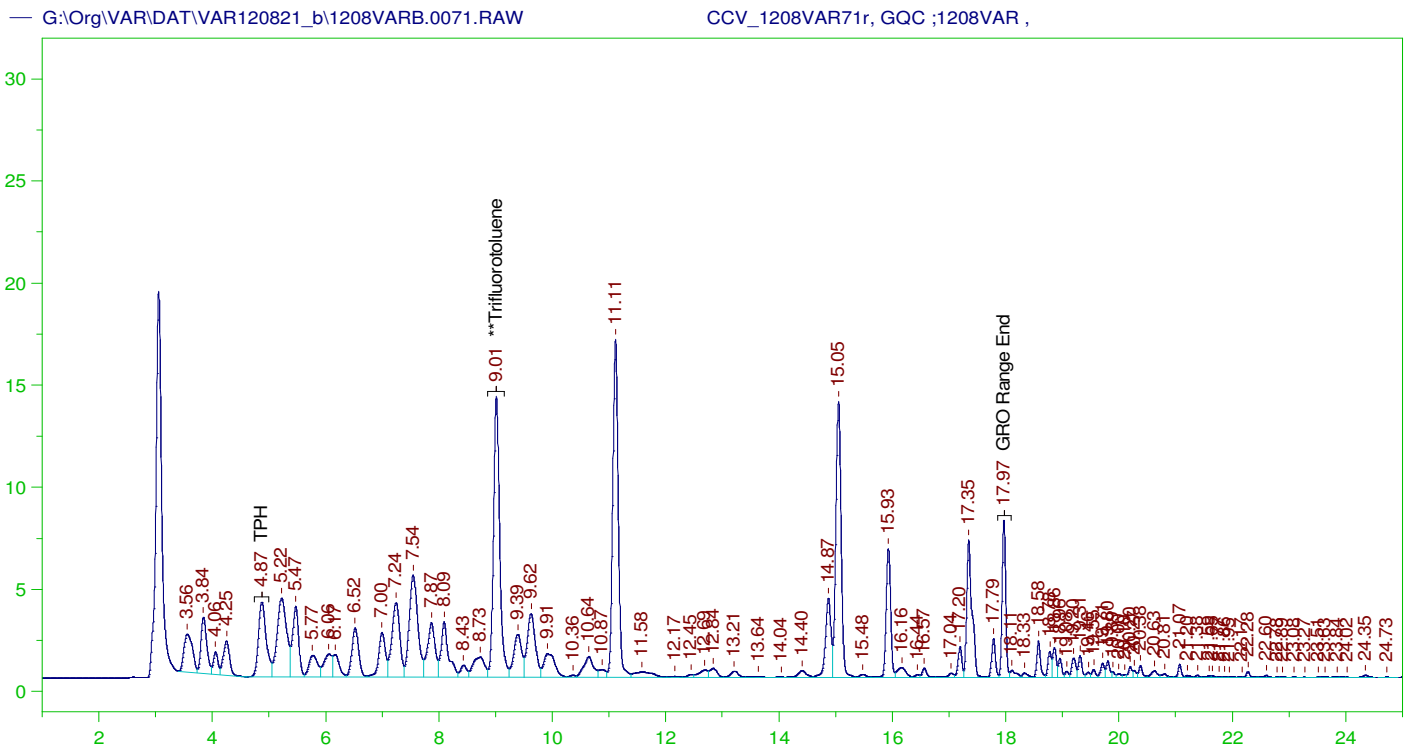
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



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	-

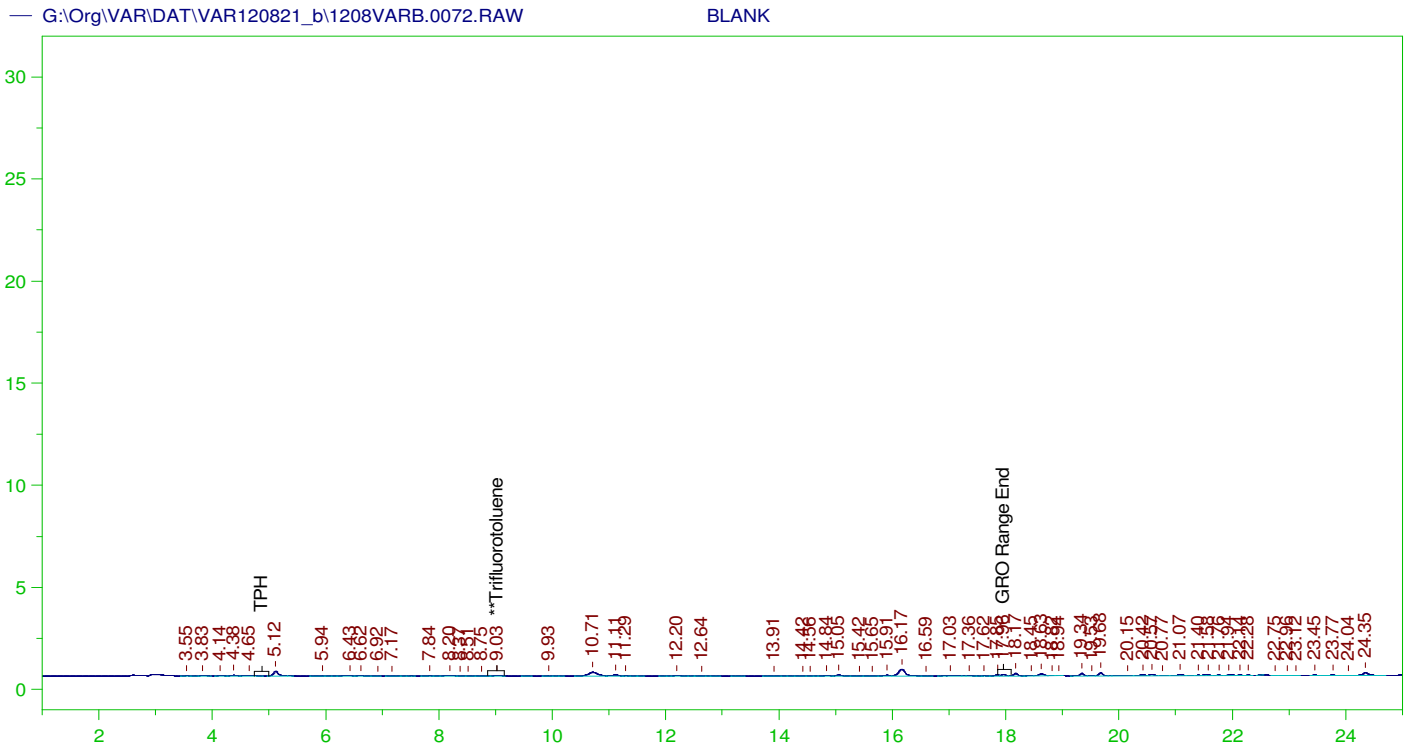
GRO Area:821239.7 GRO Amount: 838.0178
TPH Area:954780.1 TPH Amount: 999.064

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\Review\071_CCV_1208VAR71r_211208GROCCVB%.xls



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 / Data File	Insert Entries(Have the first cell for entries selecte / Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
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_220225A

Run Start Date:	2/25/2022
Analyst:	Josie Pickard
Ical:	0
Column ID:	Rtx-502.2
Comments:	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
15056142	CCV_0225VAR	HC-8015-GRO-	SAMP		2/25/2022 8:54:2	1	R375235		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	196.9163	196.9163		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.7856	202.7856		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.62551	19.62551		25	0	0	0.147	1	0	79%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15056143	CCV_0225VAR	HC-8015-GRO-	CCV		2/25/2022 9:28:2	1	R375235		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	176.4014	176.4014		168	0	0	2.01	20	0	105%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	211.6934	211.6934		200	0	0	3.08	20	0	106%	80	120	0%	
Trifluorotoluene	S	ug/L	22.11165	22.11165		25	0	0	0.147	1	0	88%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15056144	LCS_0225VAR0	HC-8015-GRO-	LCS		2/25/2022 10:02:	1	R375235		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	172.9216	172.9216		170	0	0	2.01	20	0	102%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	208.223	208.223		200	0	0	3.08	20	0	104%	70	130	0%	
Trifluorotoluene	S	ug/L	22.66488	22.66488		25	0	0	0.147	1	0	91%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15056145	MBLK_0225VA	HC-8015-GRO-	MBLK		2/25/2022 11:10:	1	R375235		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	19.15913	19.15913		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
15056146	B22021627-001	HC-8015-GRO-	SAMP		2/25/2022 11:44:	1	R375235		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	12.91313	12.91313		0	0	0	3.08	20	0	0%	0	0	0%	J
Trifluorotoluene	S	ug/L	18.68928	18.68928		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
15056147	B22021627-006	HC-8015-GRO-	SAMP		2/25/2022 12:52:	1	R375235		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	11.61436	11.61436		0	0	0	2.01	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	135.2027	135.2027		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.21725	19.21725		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
15056148	B22021627-011	HC-8015-GRO-	SAMP		2/25/2022 2:03:4	1	R375235		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
15056148	B22021627-011	HC-8015-GRO-	SAMP		2/25/2022 2:03:4	1	R375235		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	19.31284	19.31284		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
15056149	B22021627-003	HC-8015-GRO-	SAMP		2/25/2022 3:12:0	1	R375235		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	18.65085	18.65085		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
15056150	B22021627-008	HC-8015-GRO-	SAMP		2/25/2022 3:46:2	1	R375235		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	19.31661	19.31661		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
15056151	B22021627-013	HC-8015-GRO-	SAMP		2/25/2022 4:20:4	1	R375235		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	2.479384	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.52518	19.52518		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
15056152	B22021627-001	HC-8015-GRO-	MS		2/25/2022 4:54:4	1	R375235		2E+07	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15056152	B22021627-001	HC-8015-GRO-	MS		2/25/2022 4:54:4	1	R375235		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	162.7623	162.7623		170	0	0	2.01	20	0	96%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	203.0446	203.0446		200	12.91313	0	3.08	20	0	95%	70	130	0%	
Trifluorotoluene	S	ug/L	21.5703	21.5703		25	0	0	0.147	1	0	86%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15056153	B22021627-001	HC-8015-GRO-	MSD		2/25/2022 5:28:4	1	R375235		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	169.4375	169.4375		170	0	162.7623	2.01	20	0	100%	78	122	4%	
Total Purgeable Hydrocarbons	A	ug/L	207.0849	207.0849		200	12.91313	203.0446	3.08	20	0	97%	70	130	2%	
Trifluorotoluene	S	ug/L	21.81084	21.81084		25	0	0	0.147	1	0	87%	70	130	0%	

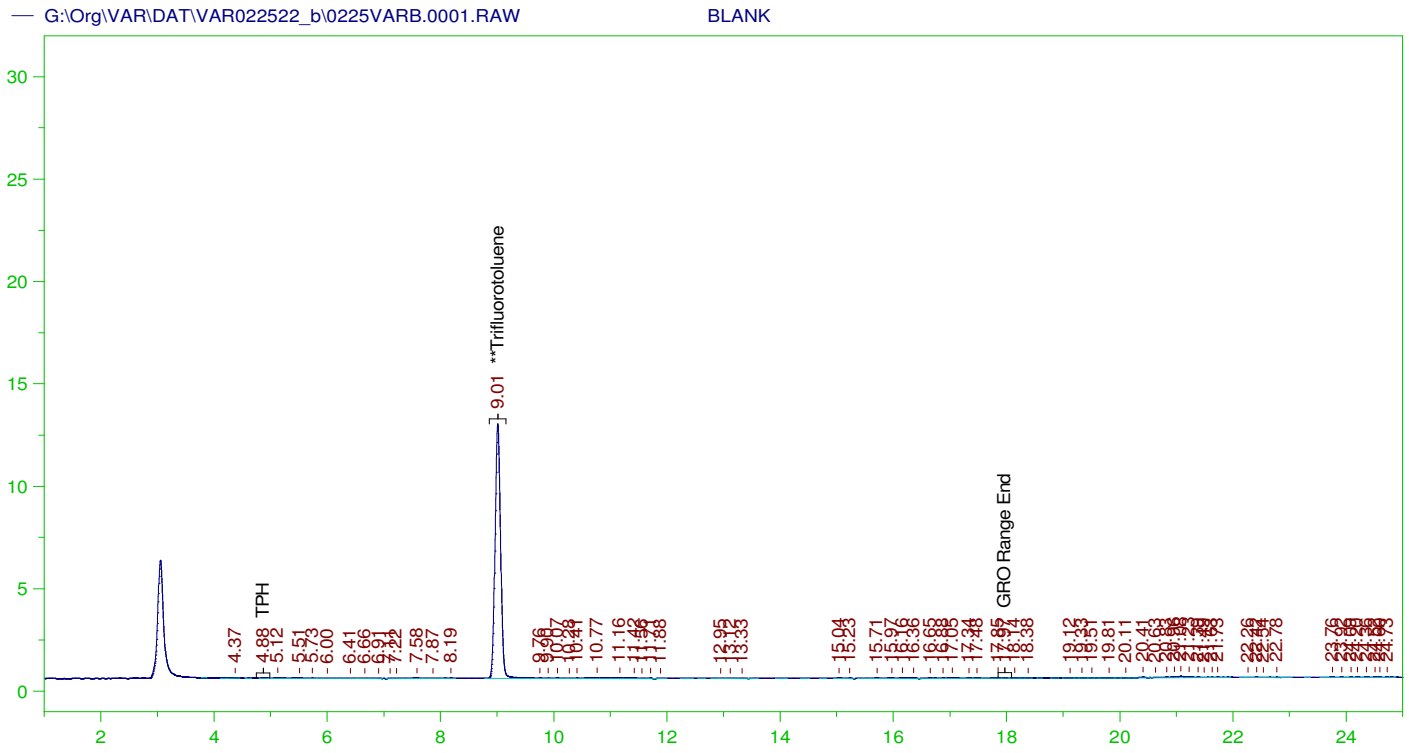
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15056154	CCV_0225VAR	HC-8015-GRO-	SAMP		2/25/2022 6:37:0	1	R375235		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	191.0093	191.0093		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	197.0837	197.0837		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.09513	19.09513		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
15056155	CCV_0225VAR	HC-8015-GRO-	CCV		2/25/2022 7:11:0	1	R375235		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	176.5011	176.5011		168	0	0	2.01	20	0	105%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	211.9685	211.9685		200	0	0	3.08	20	0	106%	80	120	0%	
Trifluorotoluene	S	ug/L	22.76604	22.76604		25	0	0	0.147	1	0	91%	80	120	0%	

Write Sequence Data File	Insert Entries(Have the first cell for entries selecte Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\VAR\DAT\VAR022522_b\0225VAR.01r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.02r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.03r	CCV_0225VAR03r, GQC ;0225VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.04r	CCV_0225VAR04r, GQC ;0225VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.05r	LCS_0225VAR05r, GQC ;0225VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.06r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.07r	MBLK_0225VAR07r, QC ;0225VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.08r	B22021627-001G ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.09r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.10r	B22021627-006G ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.11r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.12r	B22021627-011G ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.13r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.14r	B22021627-003A ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.15r	B22021627-008A ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.16r	B22021627-013A ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.17r	B22021627-001GMS, GQC ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.18r	B22021627-001GMSD, GQC ;0225VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.19r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.20r	CCV_0225VAR20r, GQC ;0225VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.21r	CCV_0225VAR21r, GQC ;0225VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR022522_b\0225VAR.22r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0



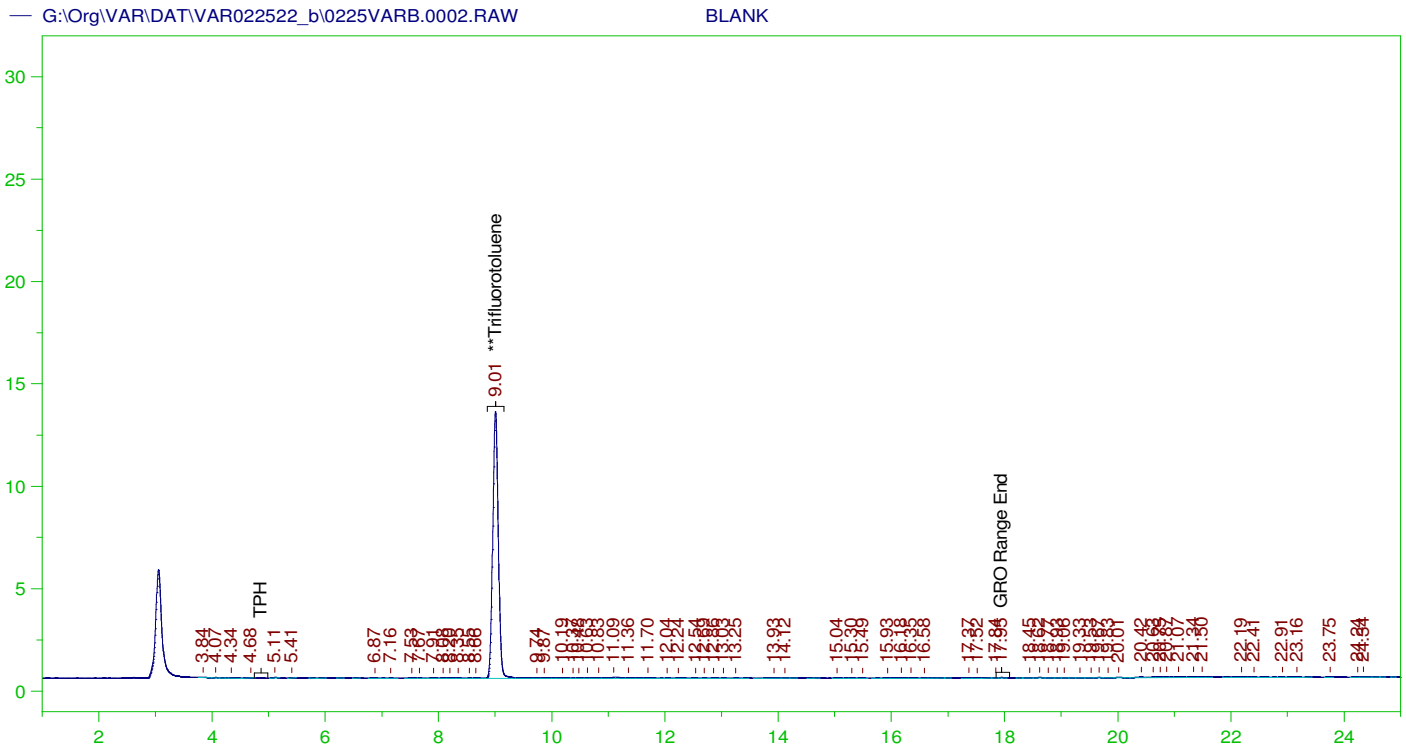
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0001.RAW
Date & Time Acquired: 2/25/2022 7:46:21 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	9.013	125.	92.451	73.96	-

C6 to C10 Area:6949.509 C6 to C10 Amount: 7.091489
TPH Area:11068.6 TPH Amount: 11.58197



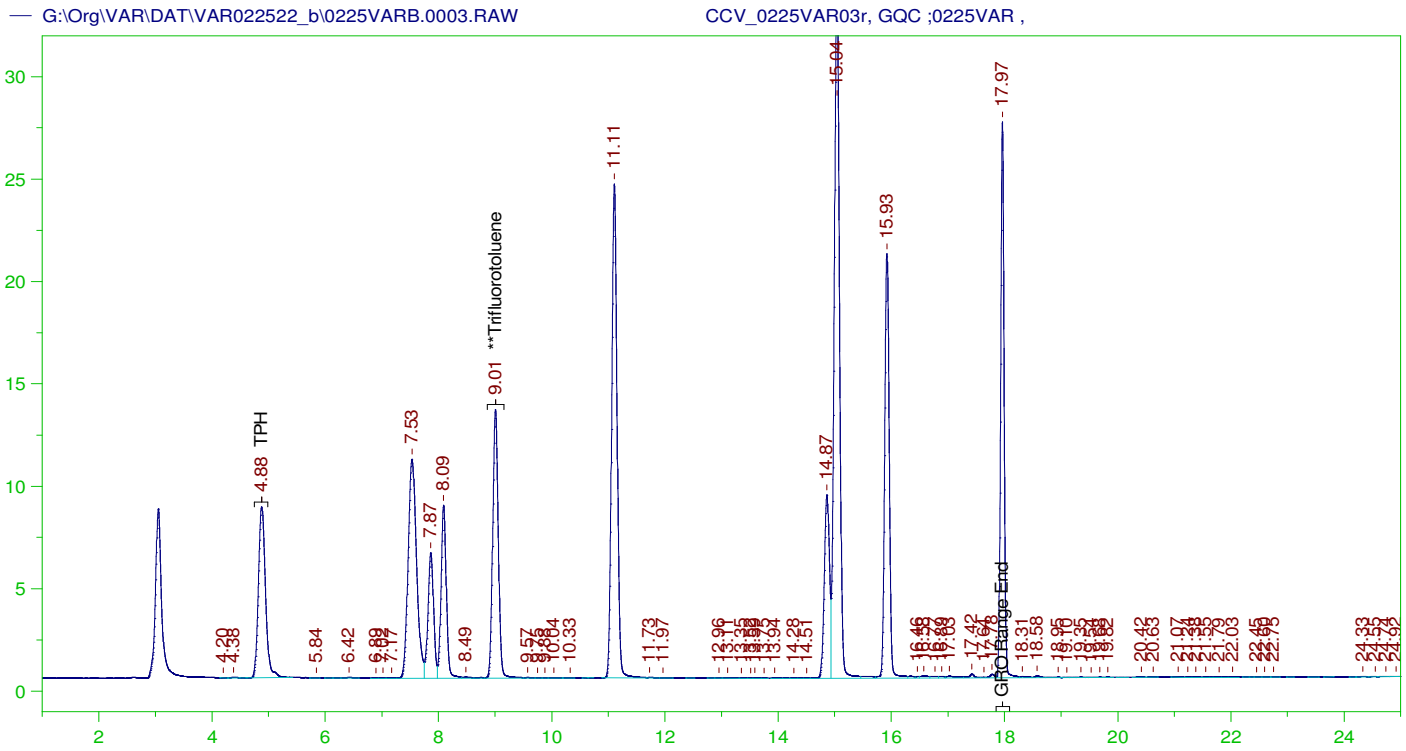
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0002.RAW
Date & Time Acquired: 2/25/2022 8:20:24 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.	97.093	77.67	-

C6 to C10 Area:6689.49 C6 to C10 Amount: 6.826158
TPH Area:11248.49 TPH Amount: 11.77021



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0225VAR03r, GQC ;0225VAR ,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0003.RAW
Date & Time Acquired: 2/25/2022 8:54:22 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

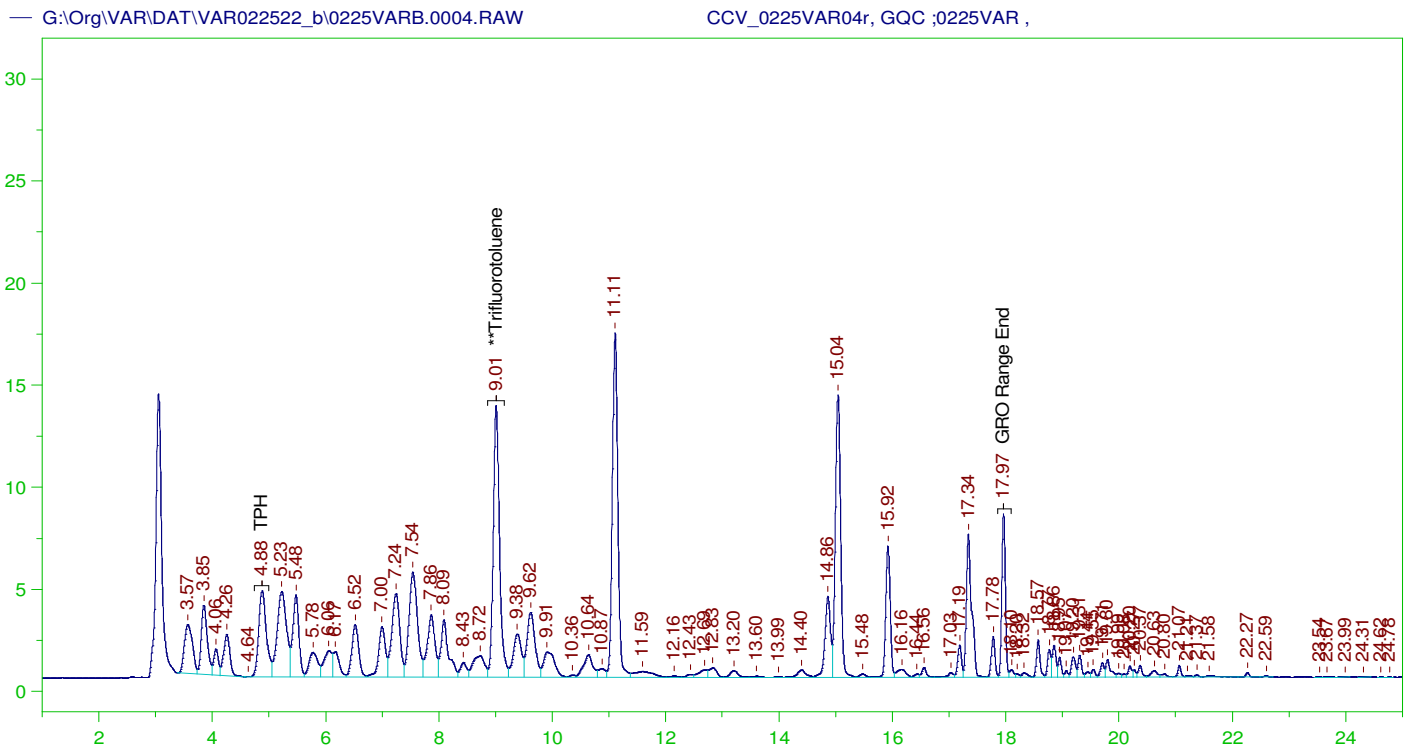
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.007	125.	98.128	78.5	-

C6 to C10 Area:964869.2 C6 to C10 Amount: 984.5817
TPH Area:968985.5 TPH Amount: 1013.928

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0003.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	984.58	117.21	85-115
TPH	1000.	1013.93	101.39	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.007	125.	98.128	78.5	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0225VAR04r, GQC ;0225VAR ,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0004.RAW
Date & Time Acquired: 2/25/2022 9:28:24 AM
Method File: G:\Org\VAR\Methods\211208GCCV0225_04DoDB%.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

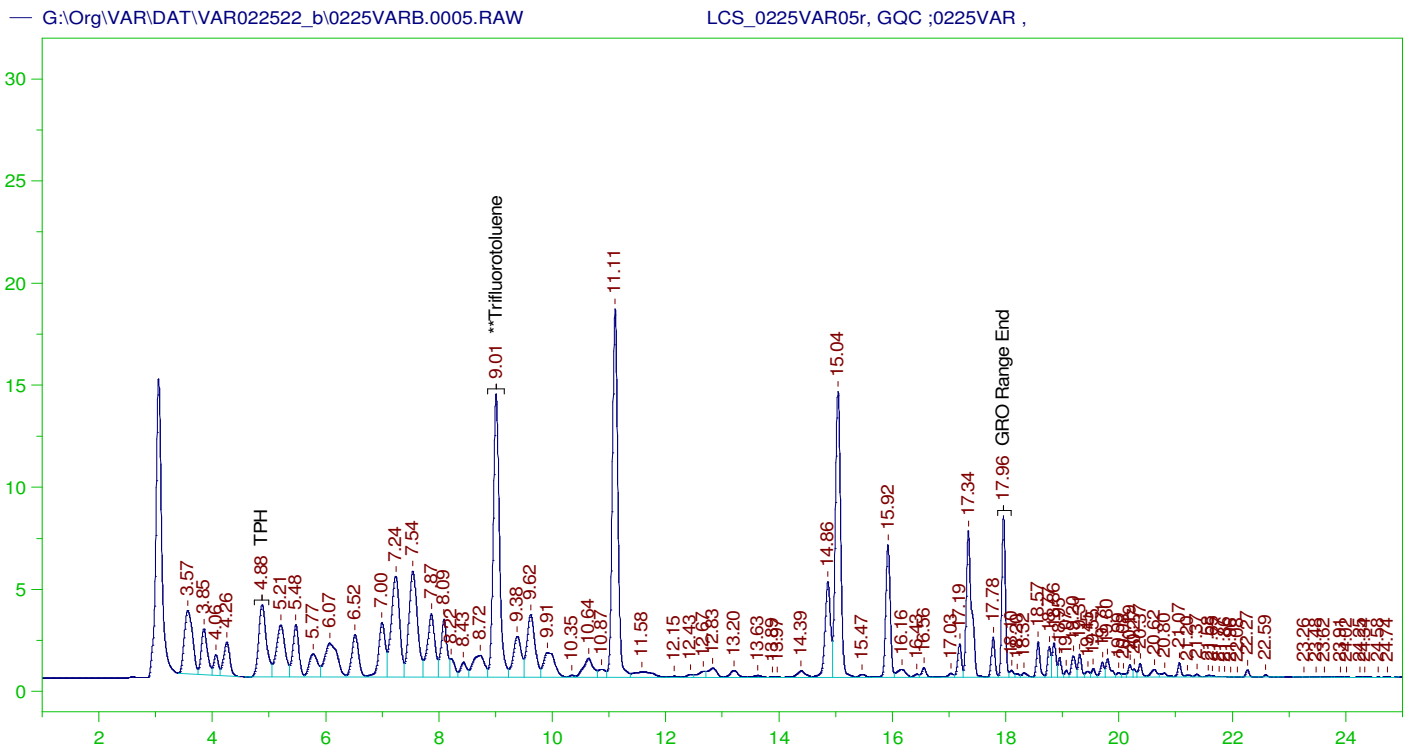
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.009	125.	110.558	88.45	-

C6 to C10 Area:864348.3 C6 to C10 Amount: 882.0071
TPH Area:1011550 TPH Amount: 1058.467

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0004.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	882.01	105.	85-115
TPH	1000.	1058.47	105.85	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.009	125.	110.558	88.45	85-115



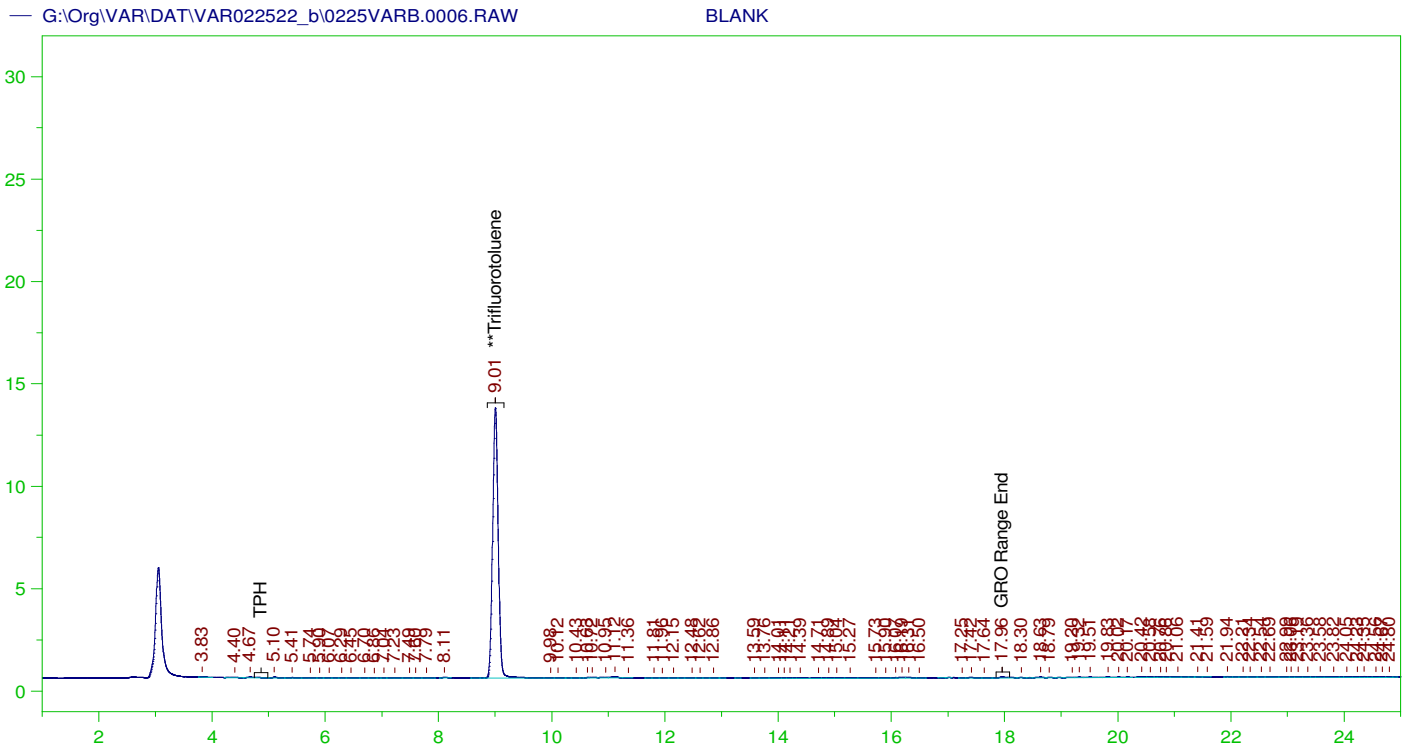
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_0225VAR05r, GQC ;0225VAR ,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0005.RAW
Date & Time Acquired: 2/25/2022 10:02:22 AM
Method File: G:\Org\VAR\Methods\211208GLCS02225_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	9.008	25.	22.665	90.66	-

C6 to C10 Area:847297.4 C6 to C10 Amount: 172.9216
TPH Area:994967.3 TPH Amount: 208.223



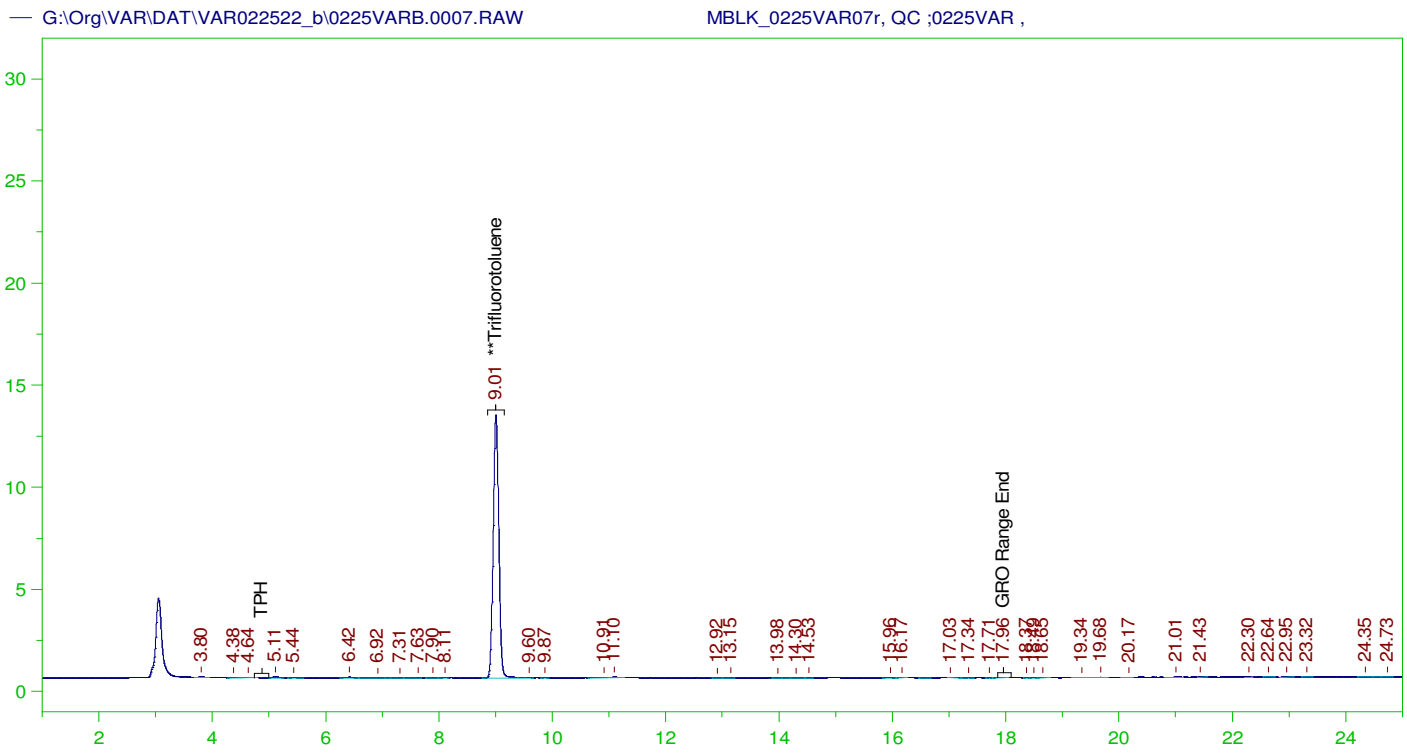
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0006.RAW
Date & Time Acquired: 2/25/2022 10:36:21 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	9.006	125.	98.28	78.62	-

C6 to C10 Area:6936.443 C6 to C10 Amount: 7.078156
TPH Area:12642.72 TPH Amount: 13.22911



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_0225VAR07r, QC ;0225VAR ,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0007.RAW
Date & Time Acquired: 2/25/2022 11:10:22 AM
Method File: G:\Org\VAR\Methods\211208GMB0225_07DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

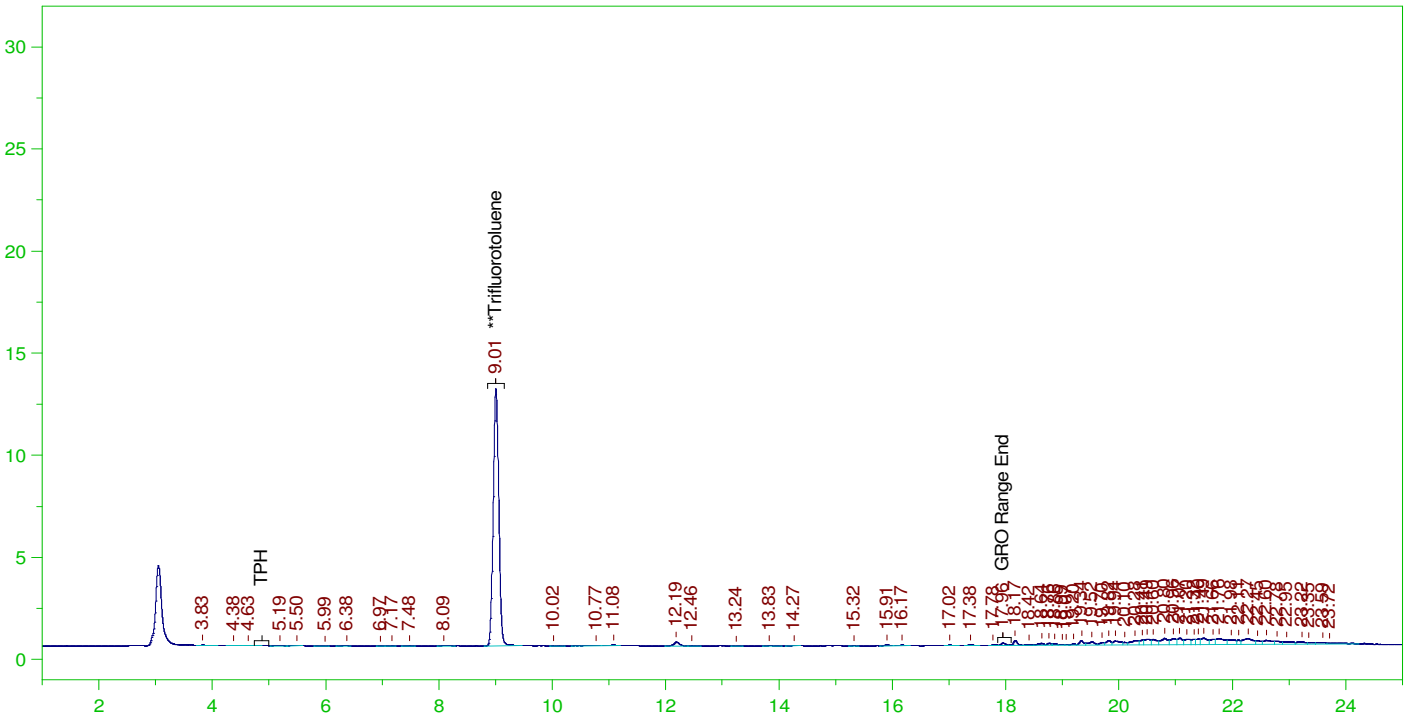
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.006	25.	19.159	76.64	-

C6 to C10 Area:3712.427 C6 to C10 Amount: 0.7576545
TPH Area:6112.545 TPH Amount: 1.27921

ERH2565 (RHMW2254-01 Bailer)

G:\Org\VAR\DAT\VAR022522_b\0225VARB.0008.RAW B22021627-001G ;0225VAR , $HC-8015-GRO-W,



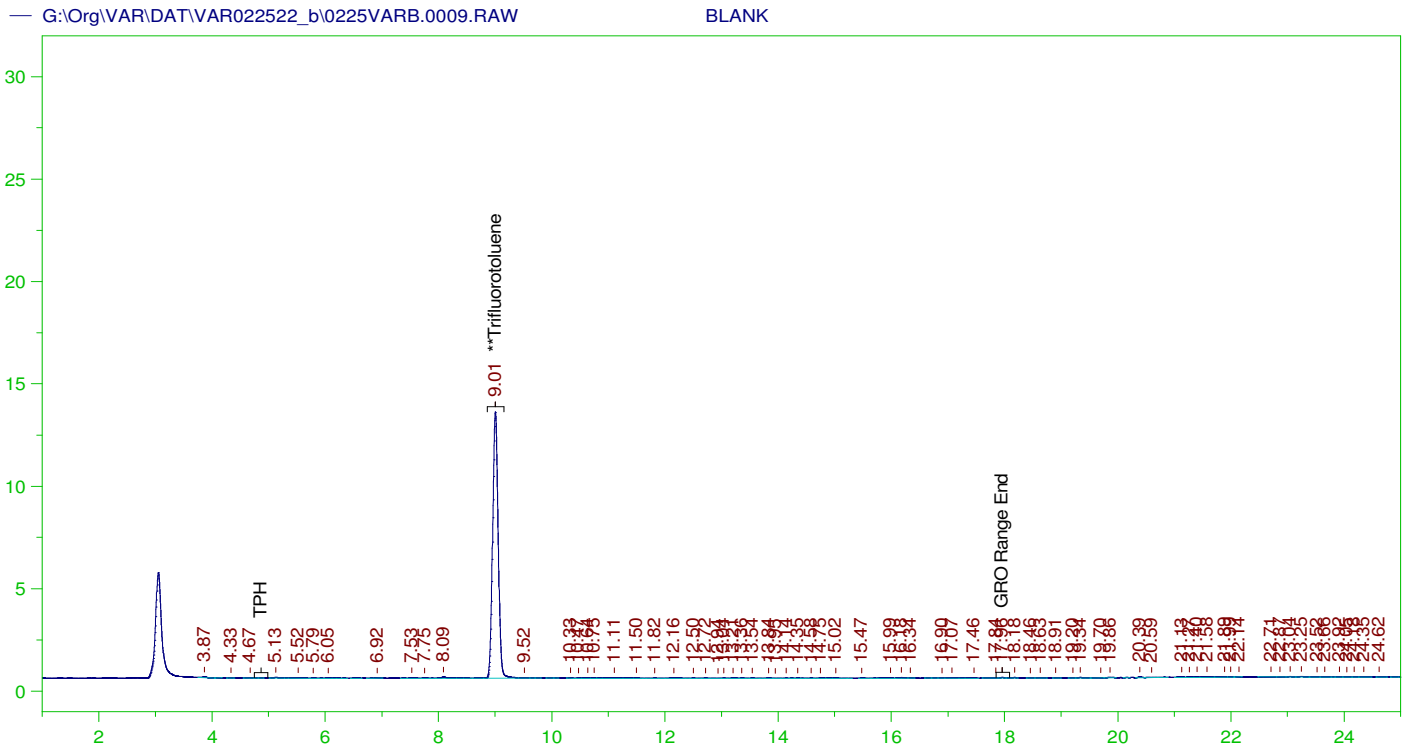
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001G ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0008.RAW
Date & Time Acquired: 2/25/2022 11:44:21 AM
Method File: G:\Org\VAR\Methods\211208G1627-1DoDB%.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.	18.689	74.76	-

C6 to C10 Area:5688.481 C6 to C10 Amount: 1.16094
TPH Area:61703.75 TPH Amount: 12.91313



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0009.RAW
Date & Time Acquired: 2/25/2022 12:18:26 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

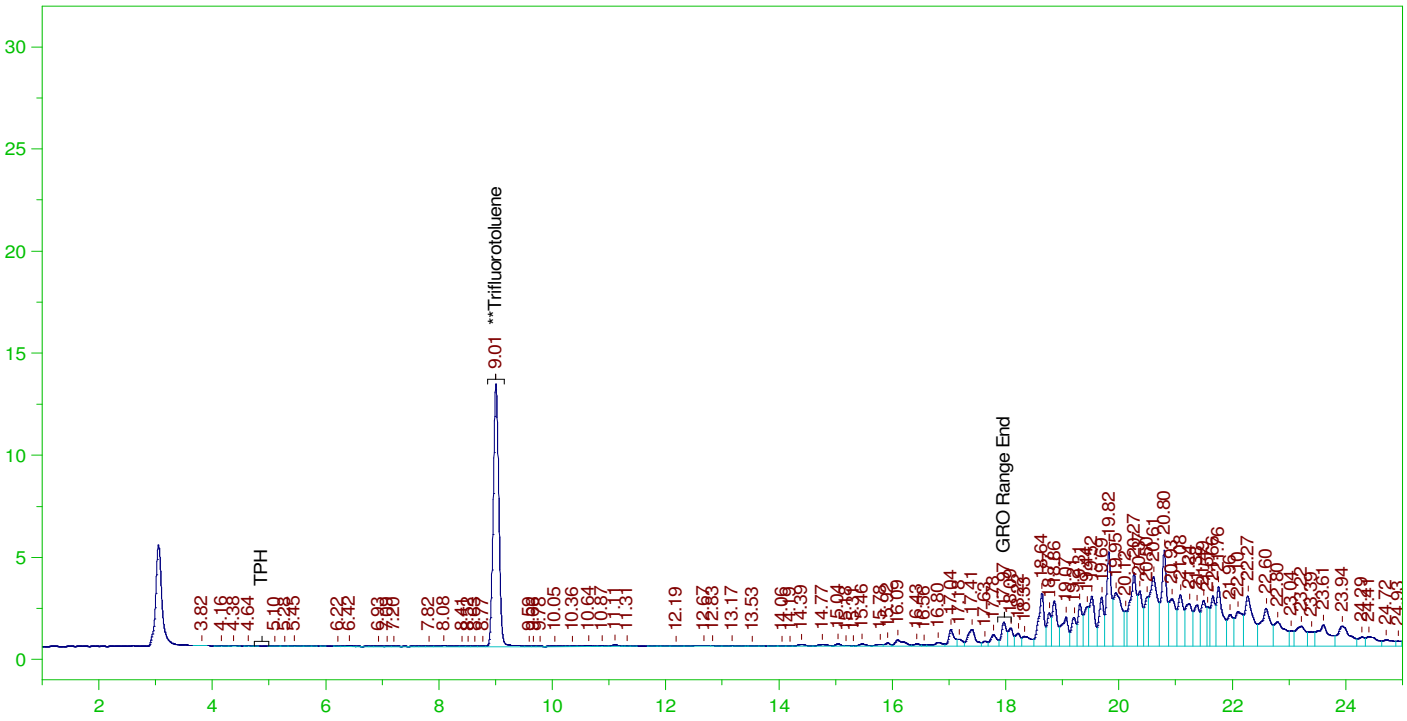
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.006	125.	96.598	77.28	-

C6 to C10 Area:6590.803 C6 to C10 Amount: 6.725455
TPH Area:10725.21 TPH Amount: 11.22265

ERH2569 (Sump Adit 3)

G:\Org\VAR\DAT\VAR022522_b\0225VARB.0010.RAW B22021627-006G ;0225VAR , $HC-8015-GRO-W,



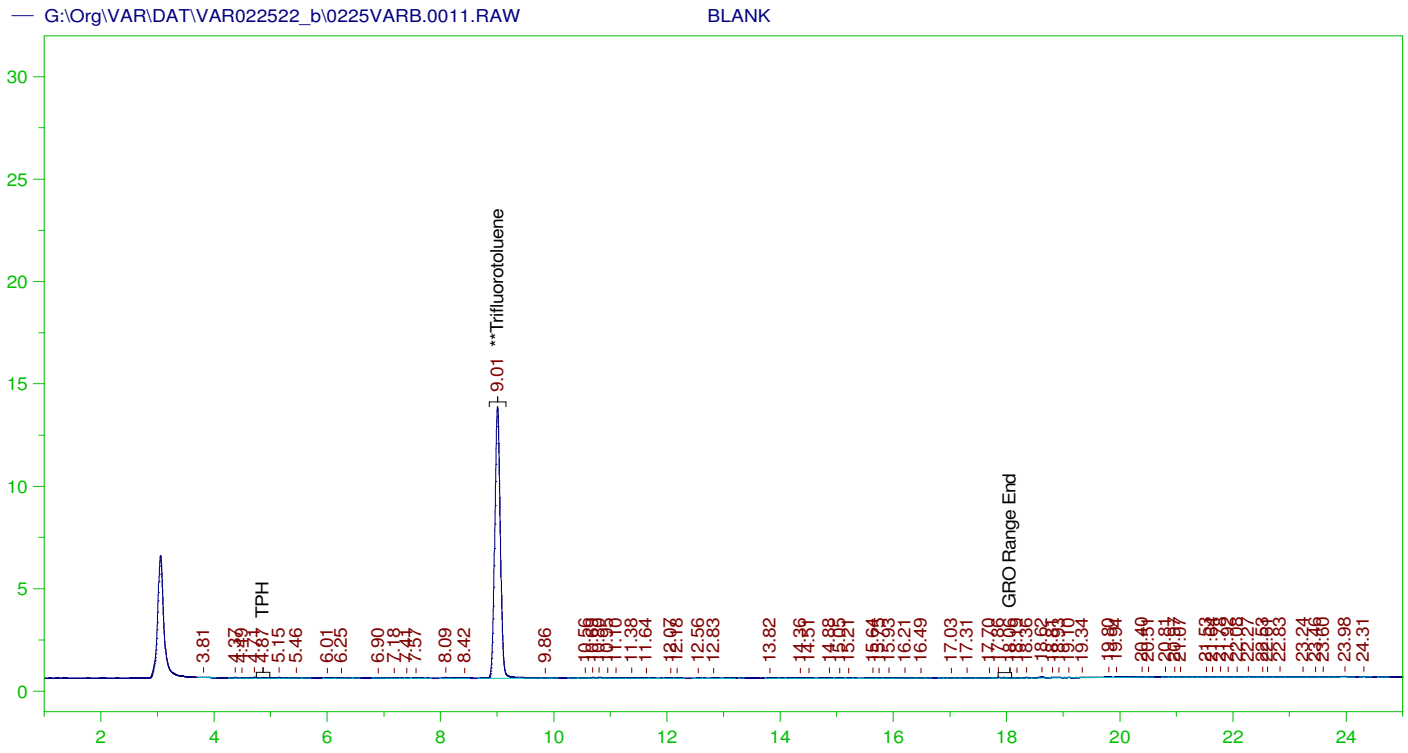
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-006G ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0010.RAW
Date & Time Acquired: 2/25/2022 12:52:30 PM
Method File: G:\Org\VAR\Methods\211208G1627-6DoDB%.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	9.006	25.	19.217	76.87	-

C6 to C10 Area:56909.14 C6 to C10 Amount: 11.61436
TPH Area:646048.9 TPH Amount: 135.2027



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0011.RAW
Date & Time Acquired: 2/25/2022 1:29:35 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

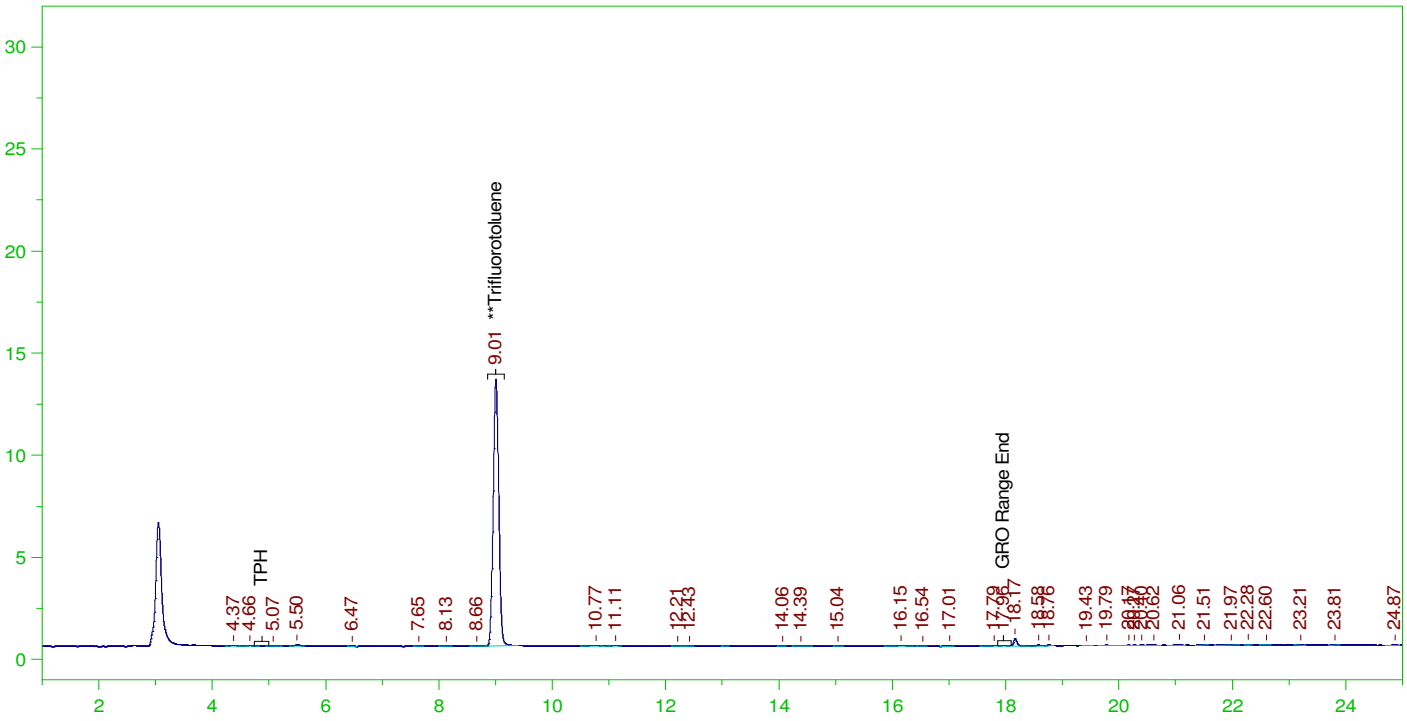
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.008	125.	98.828	79.06	-

C6 to C10 Area:6026.169 C6 to C10 Amount: 6.149285
TPH Area:11027.06 TPH Amount: 11.5385

ERH2567 (RHMW2254-01 Low-flow)

G:\Org\VAR\DAT\VAR022522_b\0225VARB.0012.RAW B22021627-011G ;0225VAR , $HC-8015-GRO-W,



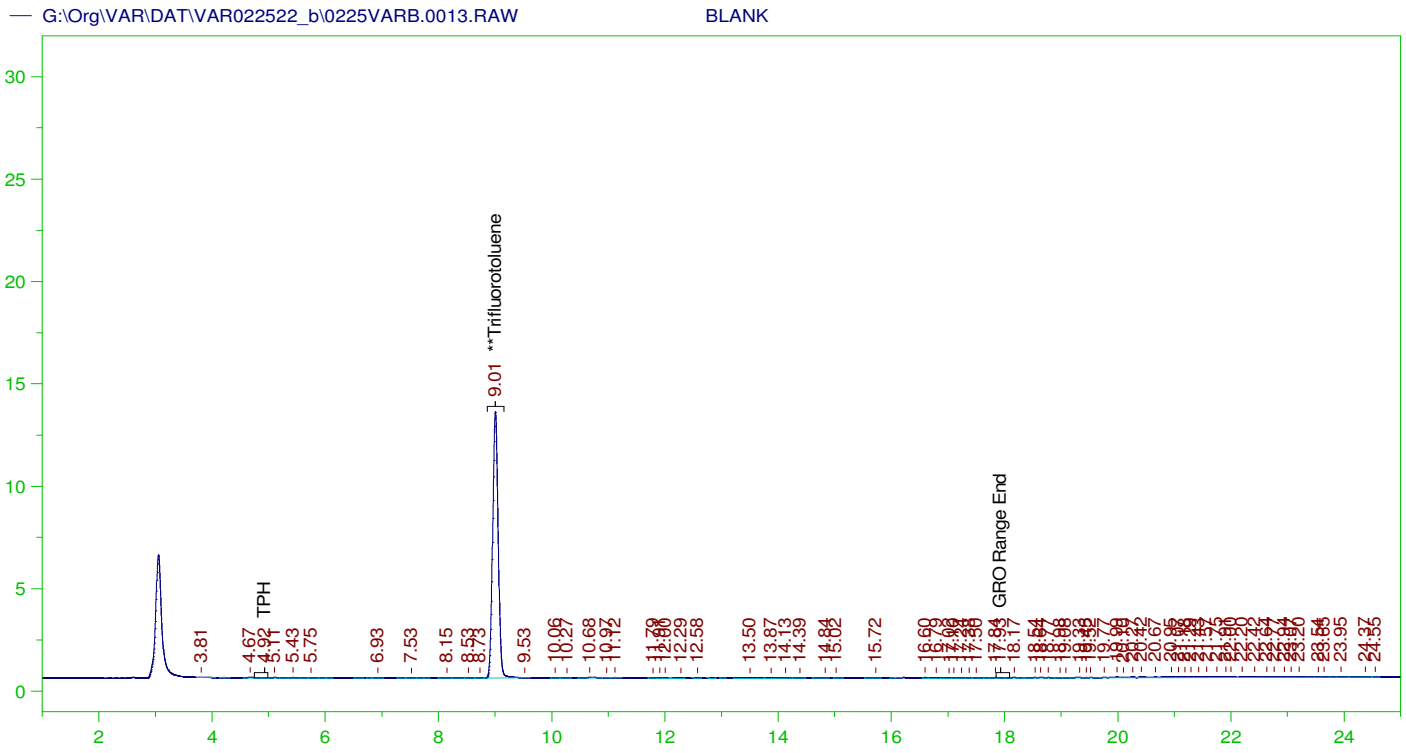
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-011G ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0012.RAW
Date & Time Acquired: 2/25/2022 2:03:46 PM
Method File: G:\Org\VAR\Methods\211208G1627-11DoDB%.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	9.005	25.	19.313	77.25	-

C6 to C10 Area:3250.948 C6 to C10 Amount: 0.6634732
TPH Area:8040.776 TPH Amount: 1.682743



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0013.RAW
Date & Time Acquired: 2/25/2022 2:37:56 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

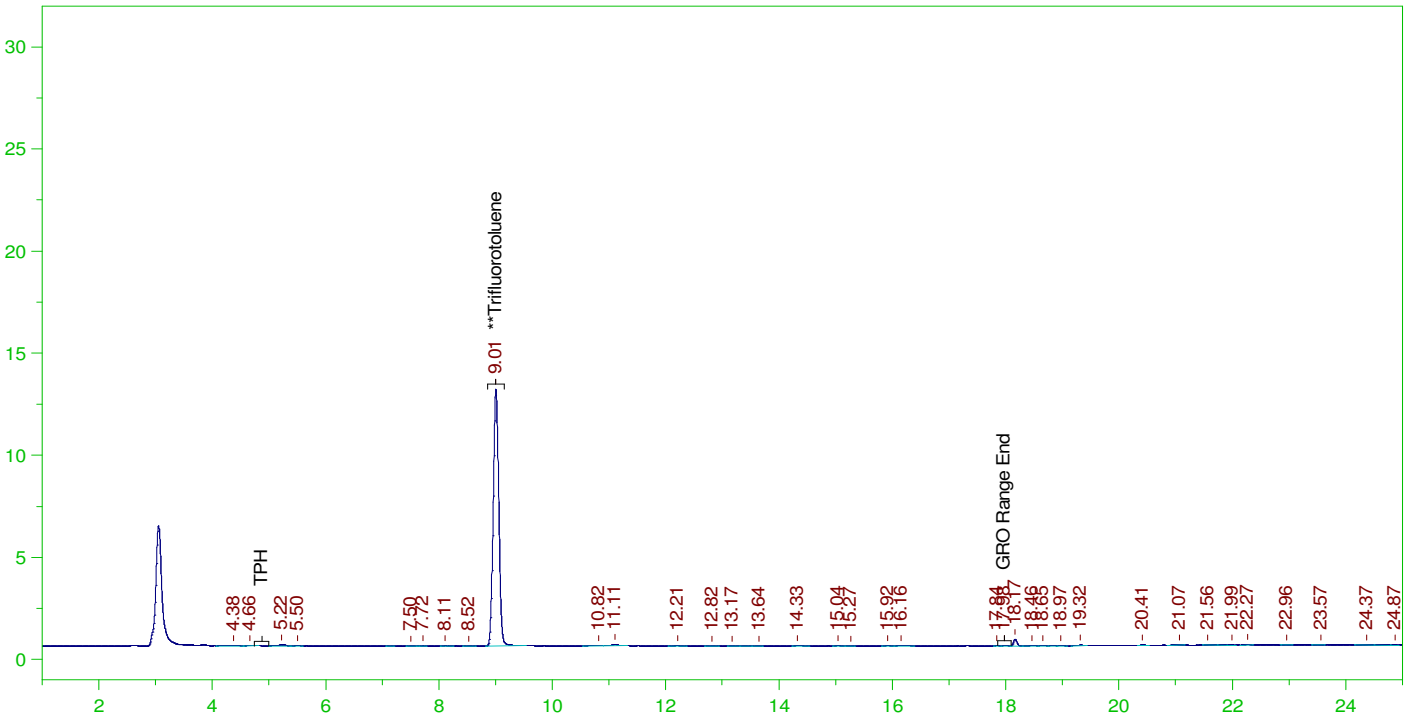
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.006	125.	96.8	77.44	-

C6 to C10 Area:4236.075 C6 to C10 Amount: 4.322619
TPH Area:11773.07 TPH Amount: 12.31912

ERH2564 (Trip Blank)-14754

G:\Org\VAR\DAT\VAR022522_b\0225VARB.0014.RAW B22021627-003A ;0225VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-003A ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0014.RAW
Date & Time Acquired: 2/25/2022 3:12:09 PM
Method File: G:\Org\VAR\Methods\211208G1627-3DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

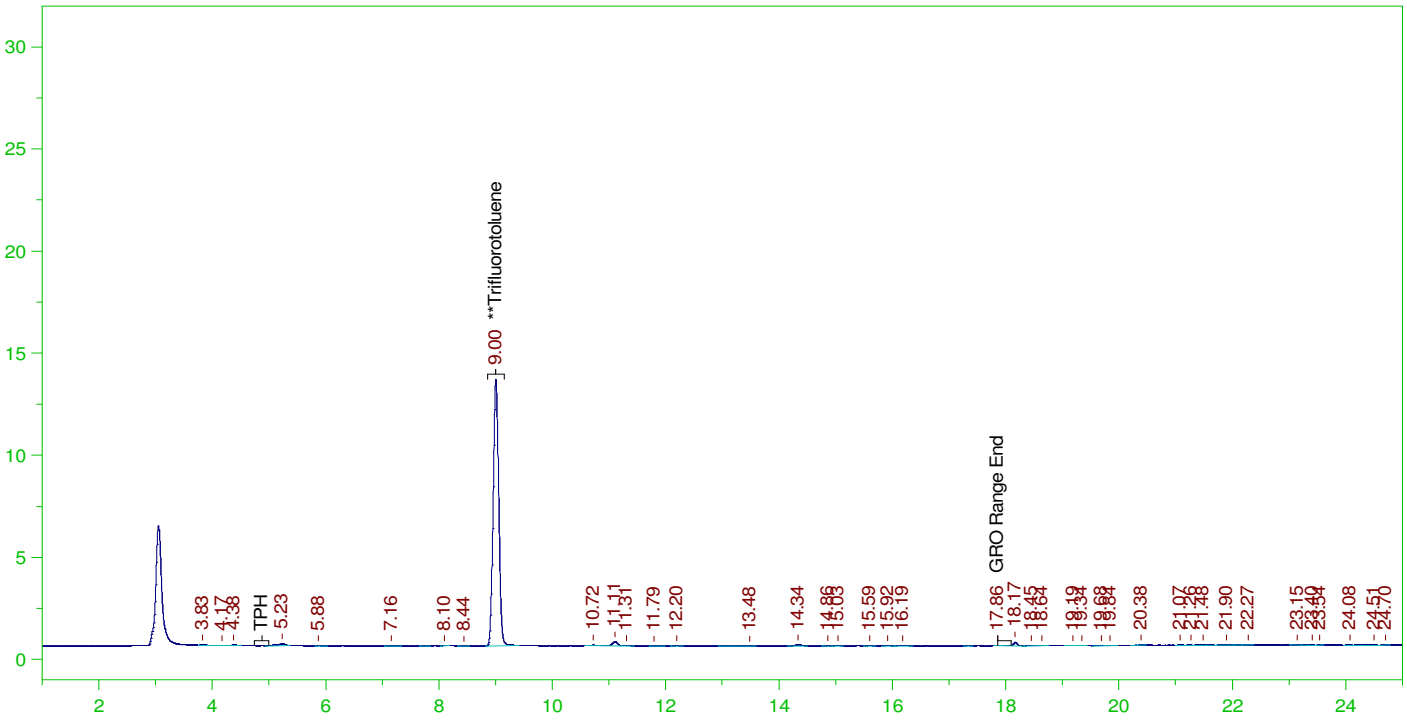
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.005	25.	18.651	74.6	-

C6 to C10 Area:3587.475 C6 to C10 Amount: 0.7321536
TPH Area:7749.319 TPH Amount: 1.621748

ERH 2568 (Trip Blank)-14754

G:\Org\VAR\DAT\VAR022522_b\0225VARB.0015.RAW B22021627-008A ;0225VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-008A ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0015.RAW
Date & Time Acquired: 2/25/2022 3:46:27 PM
Method File: G:\Org\VAR\Methods\211208G1627-8DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

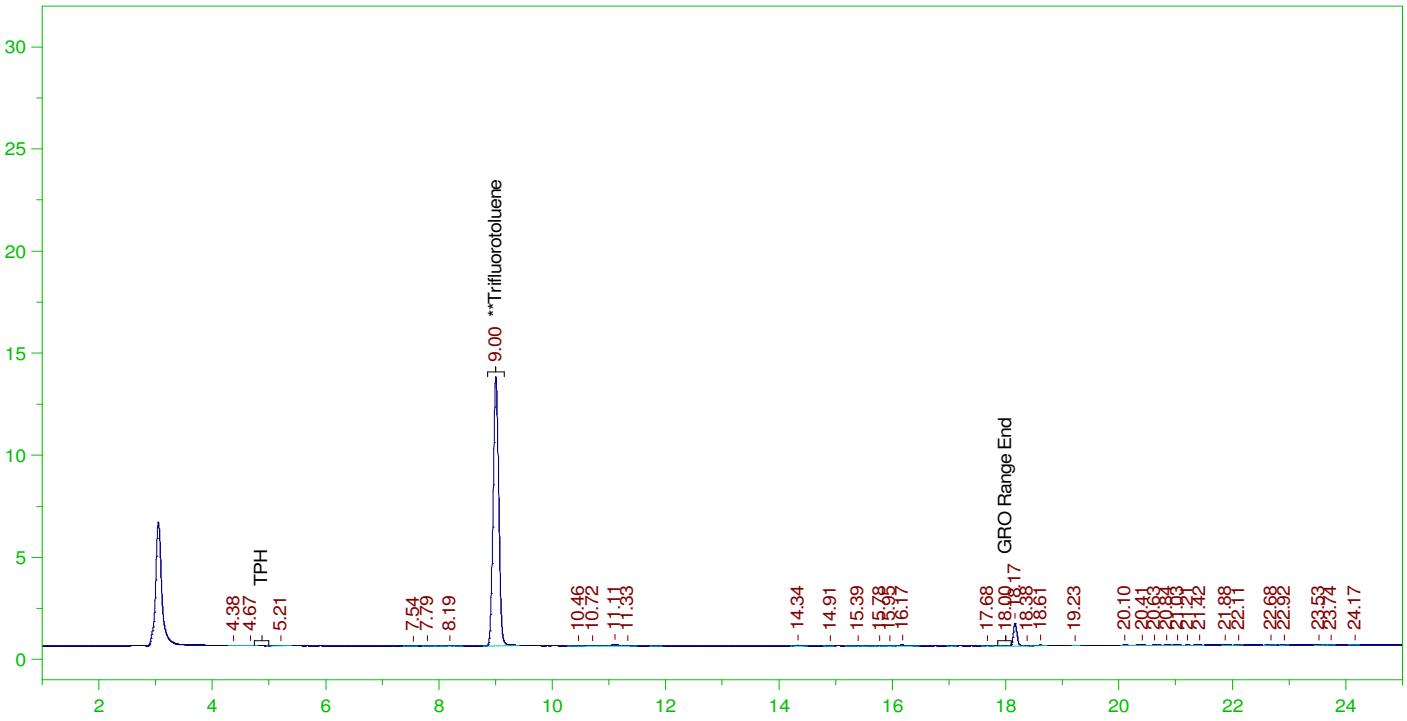
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.004	25.	19.317	77.27	-

C6 to C10 Area:5160.613 C6 to C10 Amount: 1.053209
TPH Area:9337.213 TPH Amount: 1.954057

ERH2566 (Trip Blank)-14754

G:\Org\VAR\DAT\VAR022522_b\0225VARB.0016.RAW B22021627-013A ;0225VAR , $HC-8015-GRO-W,



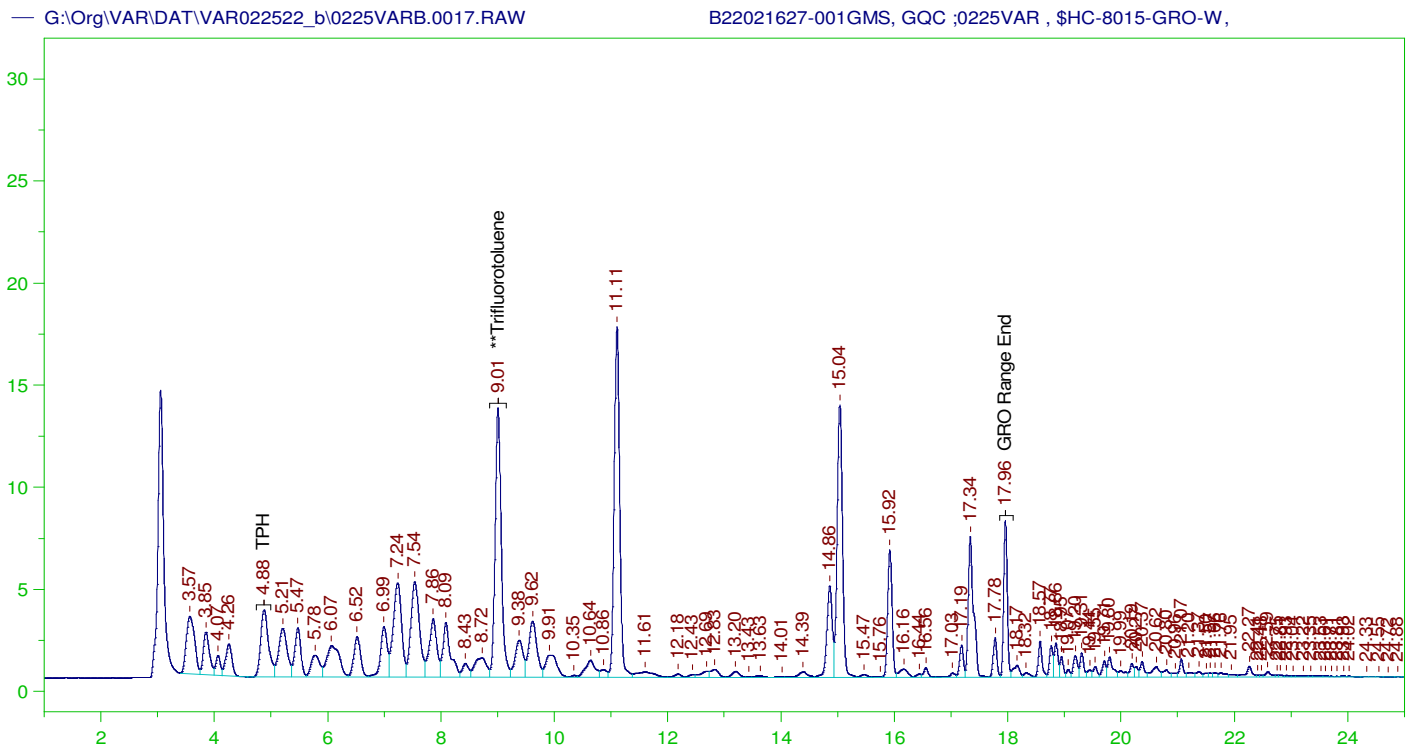
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-013A ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0016.RAW
Date & Time Acquired: 2/25/2022 4:20:42 PM
Method File: G:\Org\VAR\Methods\211208G1627-13DoDB%.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.	19.525	78.1	-

C6 to C10 Area:3857.252 C6 to C10 Amount: 0.7872113
TPH Area:11847.42 TPH Amount: 2.479384



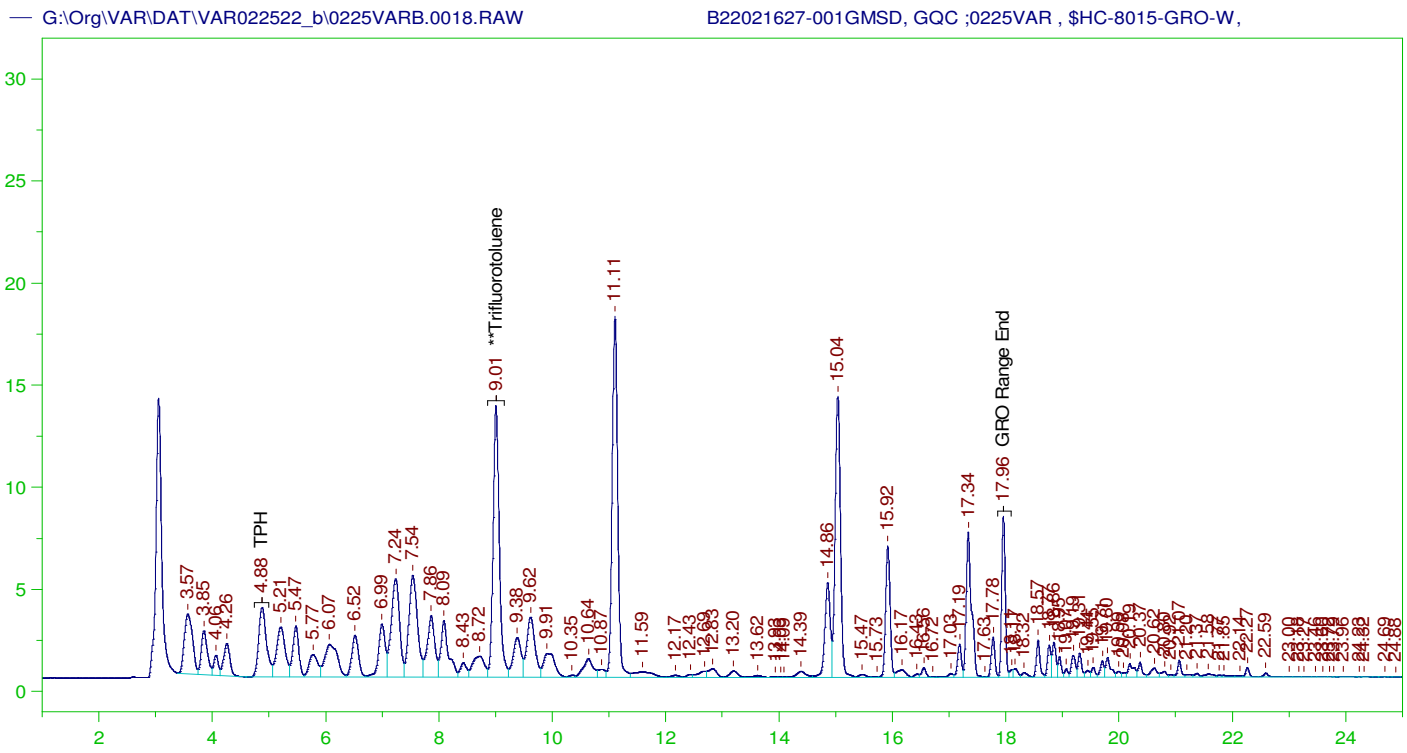
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001GMS, GQC ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0017.RAW
Date & Time Acquired: 2/25/2022 4:54:46 PM
Method File: G:\Org\VAR\Methods\211208G1627-1MSDoDB%.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.	21.57	86.28	-

C6 to C10 Area:797518.1 C6 to C10 Amount: 162.7623
TPH Area:970223.1 TPH Amount: 203.0446



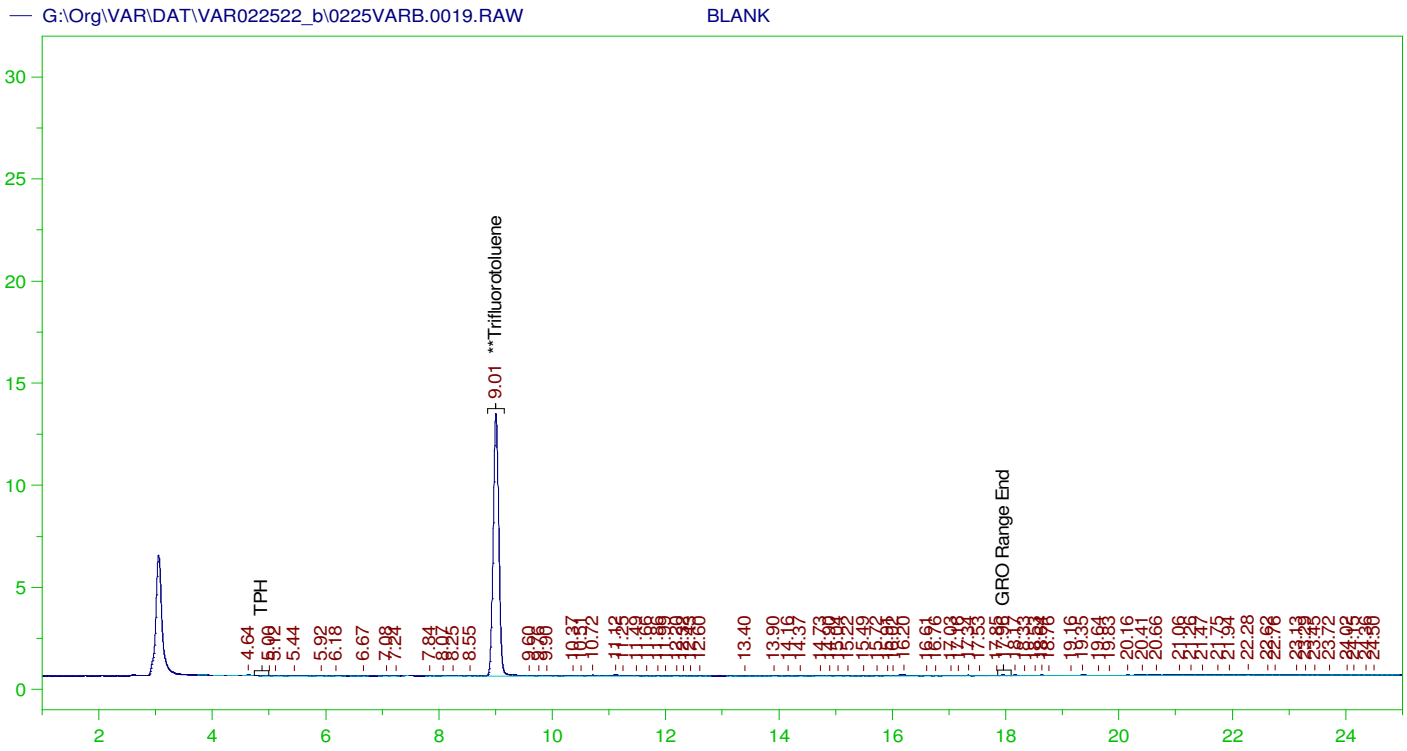
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001GMSD, GQC ;0225VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0018.RAW
Date & Time Acquired: 2/25/2022 5:28:47 PM
Method File: G:\Org\VAR\Methods\211208G1627-1MSDDoDB%.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.	21.811	87.24	-

C6 to C10 Area:830226.1 C6 to C10 Amount: 169.4375
TPH Area:989528.8 TPH Amount: 207.0849



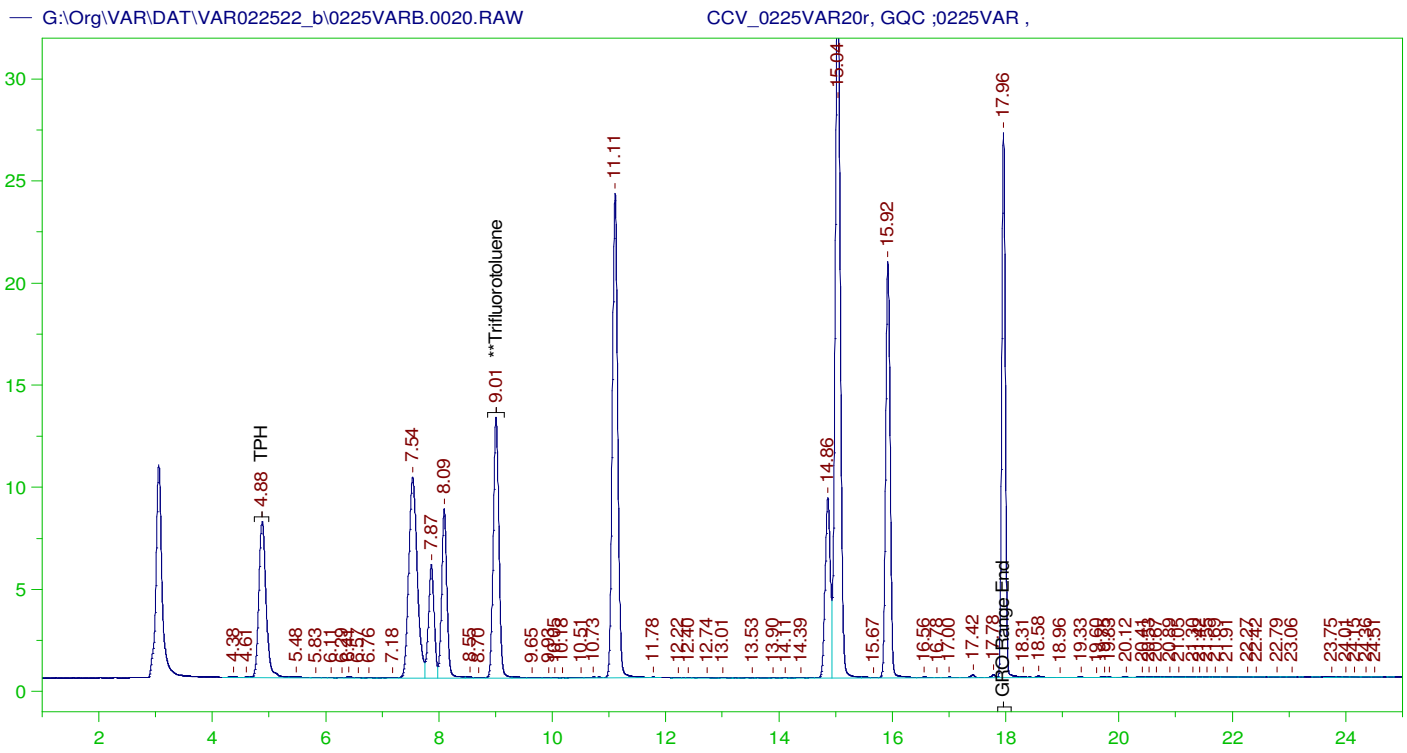
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0019.RAW
Date & Time Acquired: 2/25/2022 6:02:54 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	9.005	125.	95.549	76.44	-

C6 to C10 Area:8304.779 C6 to C10 Amount: 8.474448
TPH Area:14964.8 TPH Amount: 15.65888



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0225VAR20r, GQC ;0225VAR ,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0020.RAW
Date & Time Acquired: 2/25/2022 6:37:01 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

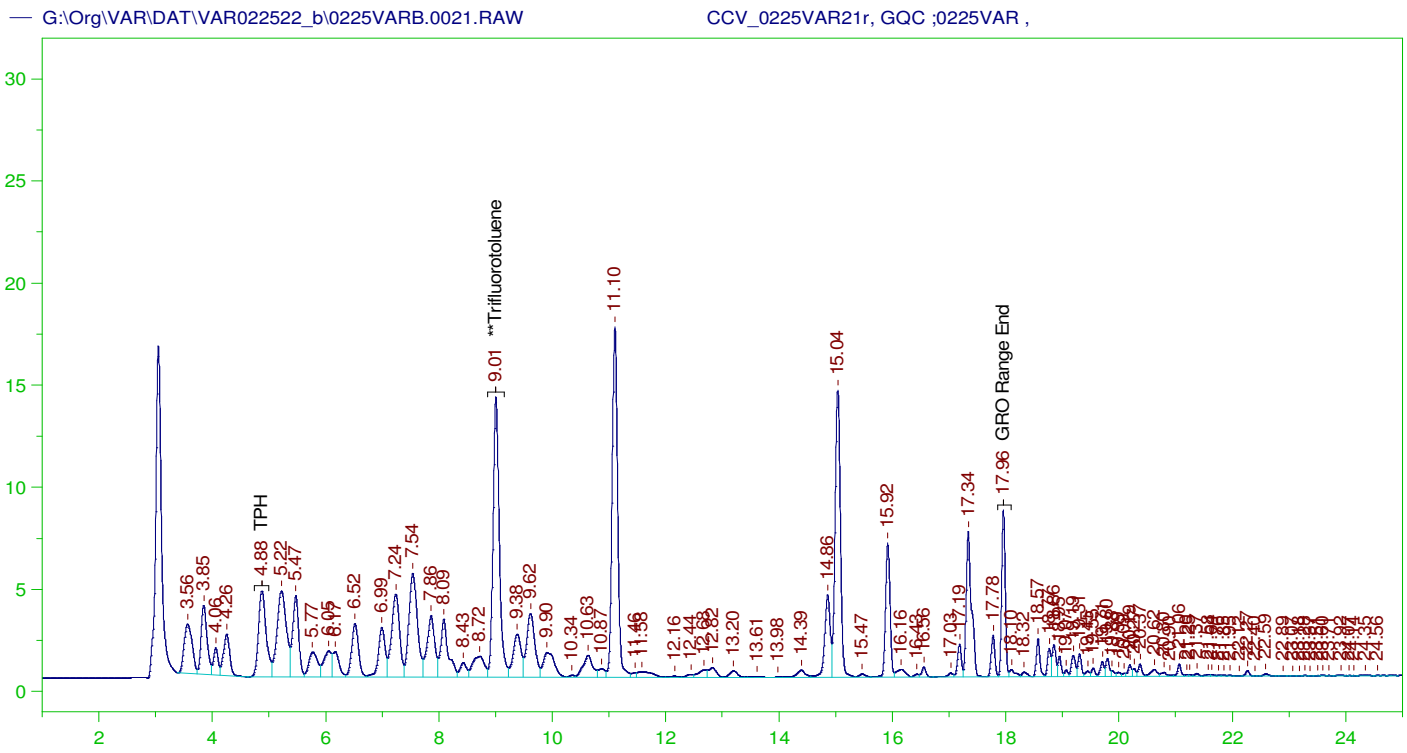
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.007	125.	95.476	76.38	-

C6 to C10 Area:935925.4 C6 to C10 Amount: 955.0466
TPH Area:941739.6 TPH Amount: 985.4186

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0020.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	955.05	113.7	85-115
TPH	1000.	985.42	98.54	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.007	125.	95.476	76.38	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0225VAR21r, GQC ;0225VAR ,
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0021.RAW
Date & Time Acquired: 2/25/2022 7:11:06 PM
Method File: G:\Org\VAR\Methods\211208GCCV0225_21DoDB%.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.	113.83	91.06	-

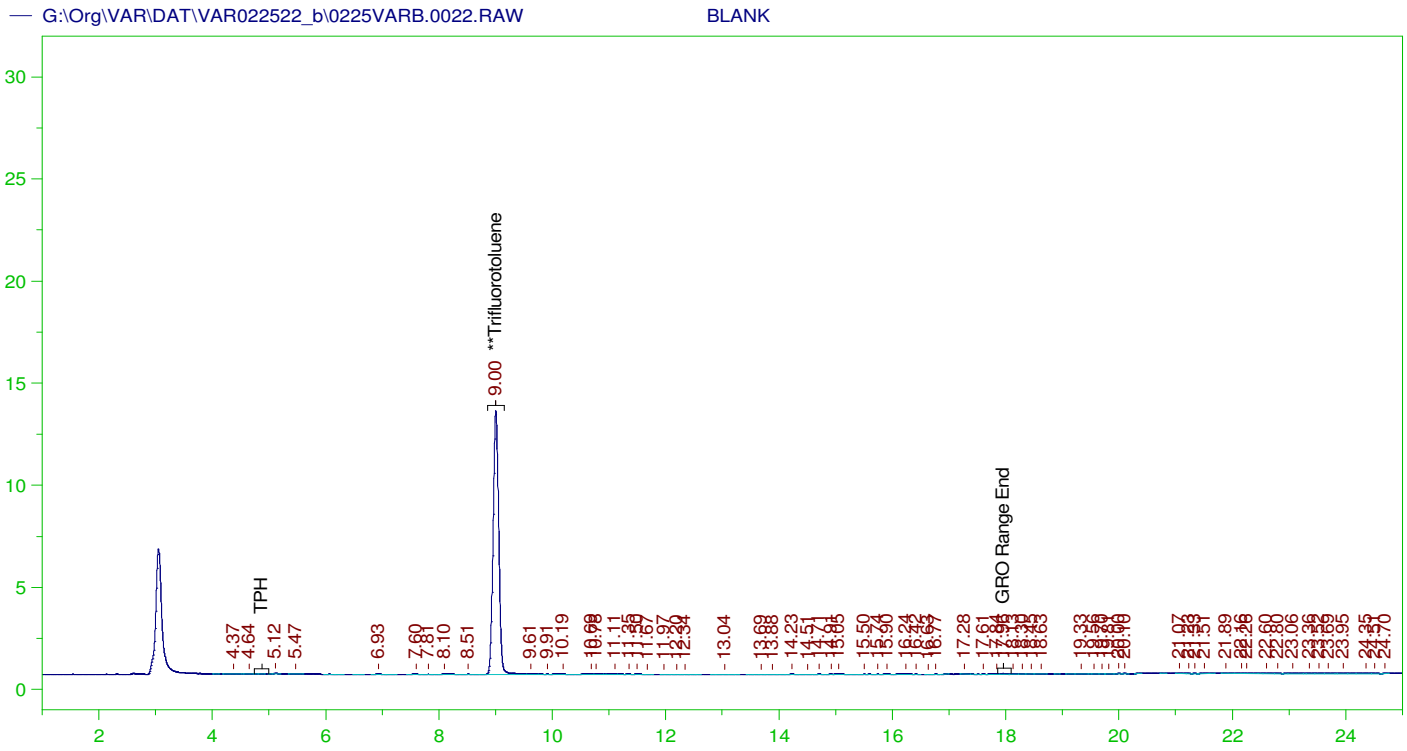
C6 to C10 Area:864836.8 C6 to C10 Amount: 882.5056
TPH Area:1012865 TPH Amount: 1059.843

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0021.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	882.51	105.06	85-115
TPH	1000.	1059.84	105.98	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.005	125.	113.83	91.06	85-115

G:\org\VAR\dat\VAR022522_b\Review\021_CCV_0225VAR21r_211208GCCV0225_21DoDB%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR022522_b\0225VARB.0022.RAW
Date & Time Acquired: 2/25/2022 7:45:10 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	9.004	125.	96.658	77.33	-

C6 to C10 Area:6944.893 C6 to C10 Amount: 7.086779
TPH Area:11344.8 TPH Amount: 11.87098

Write Sequence Data File	Insert Entries(Have the first cell for entries selecte Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\VAR\DAT\VAR022522_b\0225VAR.01r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.02r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.03r	CCV_0225VAR03r, GQC ;0225VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.04r	CCV_0225VAR04r, GQC ;0225VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022522_b\0225VAR.05r	LCS_0225VAR05r, GQC ;0225VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022522_b\0225VAR.06r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.07r	MBLK_0225VAR07r, QC ;0225VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022522_b\0225VAR.08r	B22021627-001G ;0225VAR , $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\VAR022522_b\0225VAR.09r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.10r	B22021627-006G ;0225VAR , $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\VAR022522_b\0225VAR.11r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.12r	B22021627-011G ;0225VAR , $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\VAR022522_b\0225VAR.13r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.14r	B22021627-003A ;0225VAR , $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\VAR022522_b\0225VAR.15r	B22021627-008A ;0225VAR , $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\VAR022522_b\0225VAR.16r	B22021627-013A ;0225VAR , $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\VAR022522_b\0225VAR.17r	B22021627-001GMS, GQC ;0225VAR , $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\VAR022522_b\0225VAR.18r	B22021627-001GMSD, GQC ;0225VAR , $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\VAR022522_b\0225VAR.19r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.20r	CCV_0225VAR20r, GQC ;0225VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR022522_b\0225VAR.21r	CCV_0225VAR21r, GQC ;0225VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR022522_b\0225VAR.22r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2022.02.26 08:32:27 -07:00

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: 3GAS160127
Standard Name: Alaska Gasoline Calibration Mix Version 4/8/02
Type: Neat
Prep Date: 1/27/2016
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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

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

Stock Source	Base Units	Amount Added

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	13323	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
Type: Primary
Prep Date: 1/22/2021
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor:
Final Volume: 10 mL
Lot Number:
Balance ID:
Comments: Concetration : 50,000 ug/ml

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	13323	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	14400	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)
Type: Primary
Prep Date: 12/14/2020
Prep By: Josie Pickard
Exp Date: 4/2/2030
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Composite Mix	13338	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
Type: Primary
Prep Date: 9/21/2020
Prep By: Josie Pickard
Exp Date: 3/28/2029
Status: Open
Department: GCVOA
Vendor: Accustandard
Final Volume: 2 mL
Lot Number: 219031408
Balance ID:
Comments: 10 Component Mix (varing concentrations) 100 mg/ml

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Standard	13090	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)
Type: Secondary
Prep Date: 12/8/2021
Prep By: Josie Pickard
Exp Date: 9/10/2029
Status: New
Department: GCVOA
Vendor:
Final Volume: 2 mL
Lot Number:
Balance ID:
Comments: Final concentration : 1.0mg/mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	14400	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
Type: Secondary
Prep Date: 12/8/2021
Prep By: Josie Pickard
Exp Date: 9/10/2029
Status: New
Department: GCVOA
Vendor:
Final Volume: 1 mL
Lot Number:
Balance ID:
Comments: Final concentration :0.01mg/mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	14400	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	14400	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	13921	10	mL	9/10/2029

Stock Source	Base Units	Amount Added

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*

Danger 2

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

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (%w/w)	Certified Analyte Concentration[2] (%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 4/8/0
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.

[1] All weighs are traceable through NIST, Test No. 822-275872-11

[2] 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

For use in routine laboratory analysis.

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

Josie

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USA

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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*

Signal Word: Danger

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

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (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
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.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] 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.

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.

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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*

Signal Word: Danger

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

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (mg/mL)	Certified Analyte Concentration¹ (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
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.

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

¹ 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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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.

Analytical RunID VARIAN1_220225A Standards Traceability Report

Standard ID: 3GAS160127
Standard Name: Alaska Gasoline Calibration Mix Version 4/8/02
Type: Neat
Prep Date: 1/27/2016
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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

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

Stock Source	Base Units	Amount Added

Analytical RunID VARIAN1_220225A Standards Traceability Report

Standard ID: GAS220104
Standard Name: Unleaded Gasoline Comp. Std.(2.0uL)
Type: Secondary
Prep Date: 1/4/2022
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor:
Final Volume: 10 mL
Lot Number:
Balance ID:
Comments: Concentration : 4.2ug/ul

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

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

Analytical RunID VARIAN1_220225A Standards Traceability Report

Standard ID: GASH210122
Standard Name: Unleaded Gasoline Composite
Type: Primary
Prep Date: 1/22/2021
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor:
Final Volume: 10 mL
Lot Number:
Balance ID:
Comments: Concetration : 50,000 ug/ml

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

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

Analytical RunID VARIAN1_220225A Standards Traceability Report

Standard ID: GQC211012
Standard Name: Gasoline Composite Mix (1.68uL)
Type: Primary
Prep Date: 10/12/2021
Prep By: Josie Pickard
Exp Date: 4/2/2030
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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

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_220225A Standards Traceability Report

Standard ID: GROS200921
Standard Name: Gro Stock Standard Mt.Gro
Type: Primary
Prep Date: 9/21/2020
Prep By: Josie Pickard
Exp Date: 3/28/2029
Status: Open
Department: GCVOA
Vendor: Accustandard
Final Volume: 2 mL
Lot Number: 219031408
Balance ID:
Comments: 10 Component Mix (varing concentrations) 100 mg/ml

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

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

Analytical RunID VARIAN1_220225A 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	14746	1.9	mL	9/10/2029

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

Analytical RunID VARIAN1_220225A Standards Traceability Report

Standard ID: TFTS210607
Standard Name: TFT Stock
Type: Primary
Prep Date: 6/7/2021
Prep By: Josie Pickard
Exp Date: 9/10/2029
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 10 mL
Lot Number: 219091095
Balance ID:
Comments: 20mg/ml in Meoh Date prepared is date received.

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

Stock Source	Base Units	Amount Added

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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*

Danger 2

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

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (%w/w)	Certified Analyte Concentration[2] (%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 4/8/0
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.

[1] All weighs are traceable through NIST, Test No. 822-275872-11

[2] 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.

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See reverse side for additional information

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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

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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*

Signal Word: Danger

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

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (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.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

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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

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AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 7/20

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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*

Signal Word: Danger

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

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (mg/mL)	Certified Analyte Concentration[1] (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
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.

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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

For use in routine laboratory analysis.