

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

01-Mar-22

Run ID PE 1\_220228A

Run Start Date: 2/28/2022  
 Analyst: Josie Pickard  
 Ical: 0  
 Column ID: Rtx-502.2  
 Comments:

Instrument ID	Description
VOC1-14	2-Place Balance

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
GAS220104	Unleaded Gasoline Comp. Std.(2.0uL)						6/7/2023
GASL220228	Low Gasoline Std.						6/7/2023
GQC211012	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
TFT220228	TFT (1.05uL)						9/10/2029
TFTL220228	TFTL						9/10/2029
TFTM220228	TFTM						9/10/2029

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15059547	CCV_0228PE10	HC-8015-GRO-	CCV		2/28/2022 10:02:	1	R375345		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	200.3778	200.3778		168	0	0	2.32	20	0	119%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	207.3073	207.3073		200	0	0	3.56	20	0	104%	80	120	0%	
Trifluorotoluene	S	ug/L	20.84102	20.84102		25	0	0	0.0743	1	0	83%	80	120	0%	
GRO as Gasoline	X	ug/L	200.3778	200.3778		0	0	0	2.32	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					
15059548	CCV_0228PE10	HC-8015-GRO-	CCV		2/28/2022 12:19:	1	R375345		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	17.05018	17.05018		16.8	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	20.17093	20.17093		20	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	1.057432	1.057432		1	0	0	0.0743	1	0	106%	80	120	0%	
GRO as Gasoline	X	ug/L	17.05018	17.05018		0	0	0	2.32	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					
15059549	CCV_0228PE11	HC-8015-GRO-	CCV		2/28/2022 12:53:	1	R375345		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	81.54042	81.54042		84	0	0	2.32	20	0	97%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	96.80434	96.80434		100	0	0	3.56	20	0	97%	80	120	0%	
Trifluorotoluene	S	ug/L	5.573053	5.573053		5	0	0	0.0743	1	0	111%	80	120	0%	
GRO as Gasoline	X	ug/L	81.54042	81.54042		0	0	0	2.32	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					
15059550	CCV_0228PE11	HC-8015-GRO-	CCV		2/28/2022 1:27:5	1	R375345		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	168.1684	168.1684		168	0	0	2.32	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	199.7506	199.7506		200	0	0	3.56	20	0	100%	80	120	0%	
Trifluorotoluene	S	ug/L	23.36127	23.36127		25	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	168.1684	168.1684		0	0	0	2.32	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					
15059551	CCV_0228PE11	HC-8015-GRO-	CCV		2/28/2022 2:02:1	1	R375345		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	847.4308	847.4308		840	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	1013.454	1013.454		1000	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	94.40111	94.40111		100	0	0	0.0743	1	0	94%	80	120	0%	
GRO as Gasoline	X	ug/L	847.4308	847.4308		0	0	0	2.32	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					
15059552	CCV_0228PE11	HC-8015-GRO-	CCV		2/28/2022 2:36:2	1	R375345		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	1687.629	1687.629		1680	0	0	2.32	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	2022.406	2022.406		2000	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	189.8971	189.8971		200	0	0	0.0743	1	0	95%	80	120	0%	
GRO as Gasoline	X	ug/L	1687.629	1687.629		0	0	0	2.32	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					
15059553	LCS_0228PE11	HC-8015-GRO-	LCS		2/28/2022 3:45:0	1	R375345		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	158.4122	158.4122		170	0	0	2.32	20	0	93%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	188.9488	188.9488		200	0	0	3.56	20	0	94%	70	130	0%	
Trifluorotoluene	S	ug/L	22.64962	22.64962		25	0	0	0.0743	1	0	91%	70	130	0%	
GRO as Gasoline	X	ug/L	158.4122	158.4122		170	0	0	2.32	20	0	93%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15059554	CCV_0228PE11	HC-8015-GRO-	CCV		2/28/2022 4:19:1	1	R375345		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	170.7455	170.7455		168	0	0	2.32	20	0	102%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.7429	202.7429		200	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	23.689	23.689		25	0	0	0.0743	1	0	95%	80	120	0%	
GRO as Gasoline	X	ug/L	170.7455	170.7455		0	0	0	2.32	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\PE1\DAT\PE1022822_b\0228PE1.01r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.02r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.03r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.04r	CCV_0228PE104r, GQC ;0228PE1 , AK 101 Marker	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.05r	CCV_0228PE105r, GQC ;0228PE1 , 8015 Marker	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.06r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.07r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.08r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.09r	CCV_0228PE109r, GQC ;0228PE1 , G1	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.10r	CCV_0228PE110r, GQC ;0228PE1 , G2	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.11r	CCV_0228PE111r, GQC ;0228PE1 , G3	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.12r	CCV_0228PE112r, GQC ;0228PE1 , G4	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.13r	CCV_0228PE113r, GQC ;0228PE1 , G5	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.14r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.15r	LCS_0228PE115r, GQC ;0228PE1 , ICV	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1022822_b\0228PE1.16r	CCV_0228PE116r, GQC ;0228PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0

File Name: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Version: 3

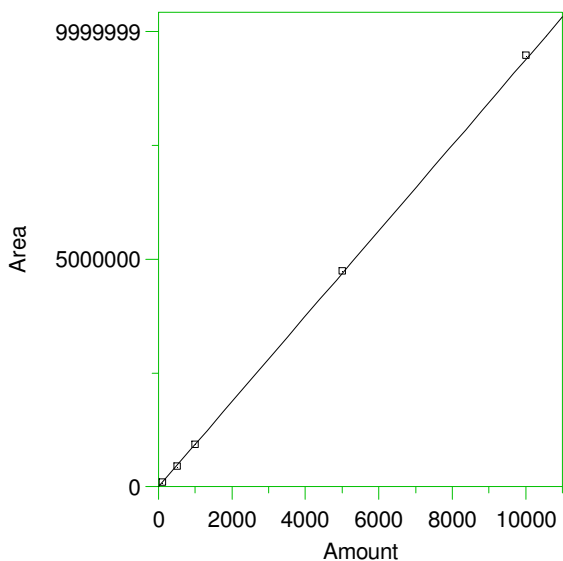
Creator: jmp  
 Description: 8015 GRO Composite Gasoline Std 2/28/22  
 Reason for change:

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.

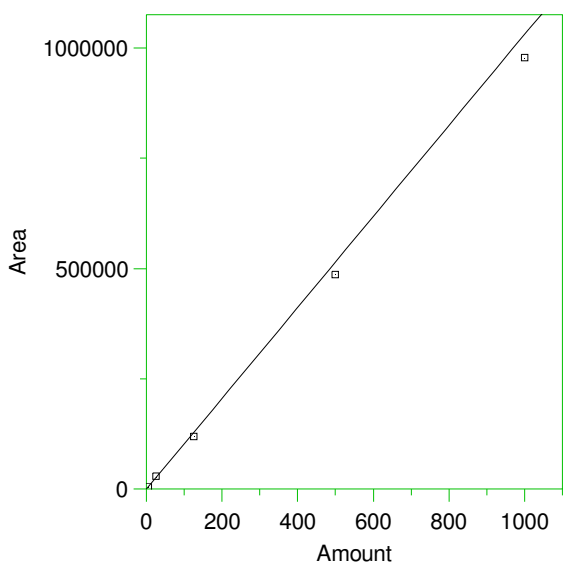
1 TPH



Expected retention time: 4.56 minutes  
 Search window: 0.1 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  
 $Y = 938.3934 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9997625  
 Average error: 1.328%  
 Average CF: 938.3934  
 RSD: 1.872%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	94641.32	946.4132	0.855	Manual	2/28/2022 2:59:43 PM
2	500	454202.8	908.4056	-3.196	Manual	2/28/2022 2:59:57 PM
3	1000	937223.2	937.2232	-0.125	Manual	2/28/2022 3:00:22 PM
4	5000	4755095	951.019	1.345	Manual	2/28/2022 3:00:36 PM
5	10000	9489061	948.9061	1.120	Manual	2/28/2022 3:00:50 PM

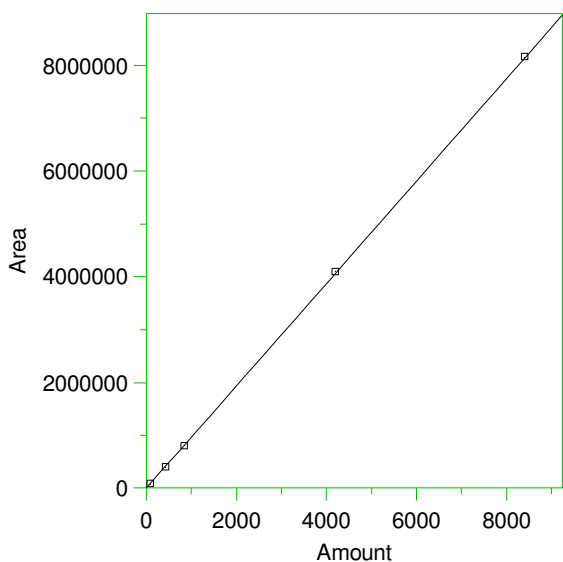
2 \*\*Trifluorotoluene



Expected retention time: 8.72 minutes  
 Search window: 0.1 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  
 $Y = 1030.803 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9947108  
 Average error: 6.882%  
 Average CF: 1030.803  
 RSD: 8.127%

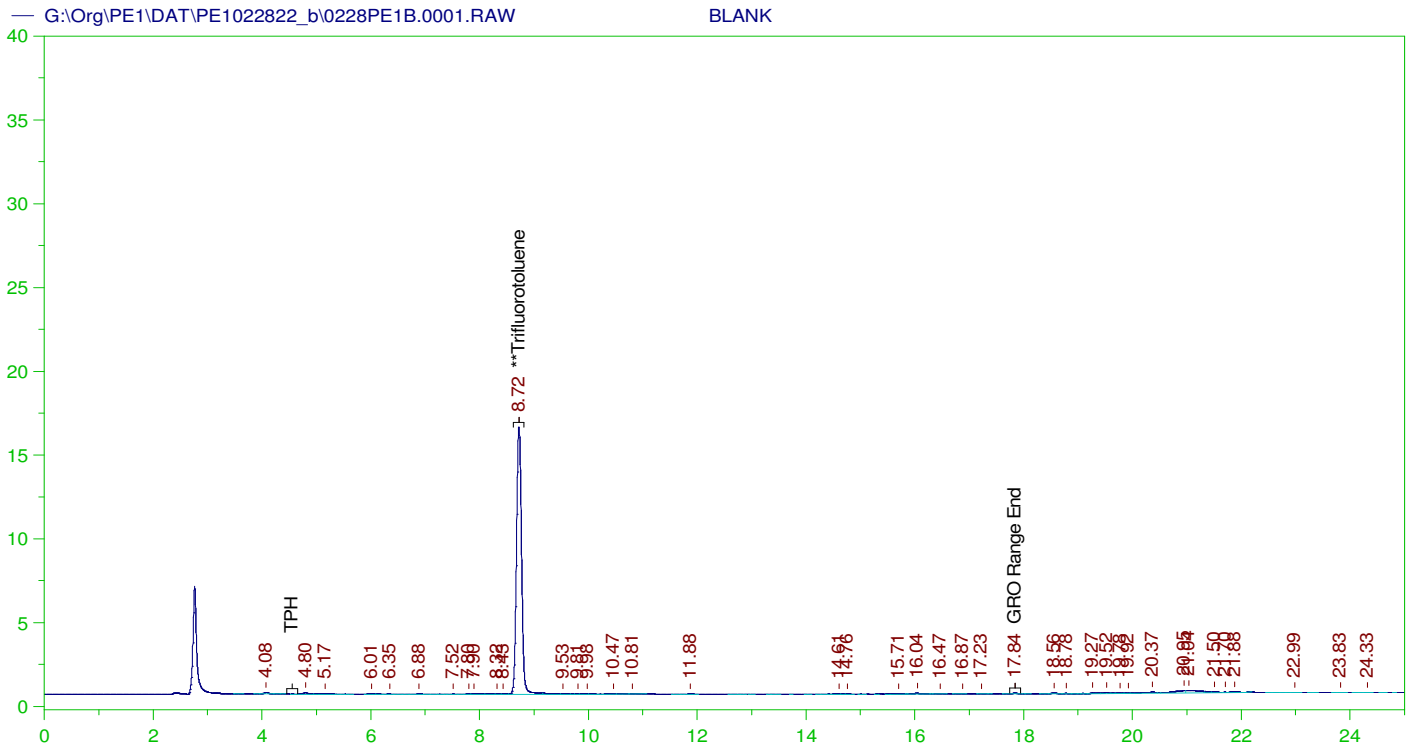
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5	5450	1090	5.743	Manual	2/28/2022 2:53:31 PM
2	25	28724	1148.96	11.463	Manual	2/28/2022 2:55:23 PM
3	125	120404	963.232	-6.555	Manual	2/28/2022 2:56:16 PM
4	500	486545	973.09	-5.599	Manual	2/28/2022 2:57:03 PM
5	1000	978732	978.732	-5.051	Manual	2/28/2022 2:58:28 PM

3 GRO Range End



Expected retention time: 17.84 minutes  
 Search window: 0.1 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  
 $Y = 968.4485 X + 0$   
 Average CF fit with equal weighting, forced to origin  
 Coefficient of determination: 0.9999412  
 Average error: 1.171%  
 Average CF: 968.4485  
 RSD: 1.717%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	84	82561.1	982.8702	1.489	Manual	2/28/2022 2:59:49 PM
2	420	394838.4	940.0914	-2.928	Manual	2/28/2022 3:00:13 PM
3	840	814311.9	969.4189	0.100	Manual	2/28/2022 3:00:28 PM
4	4200	4103465	977.0155	0.885	Manual	2/28/2022 3:00:41 PM
5	8400	8171910	972.8464	0.454	Manual	2/28/2022 3:00:55 PM



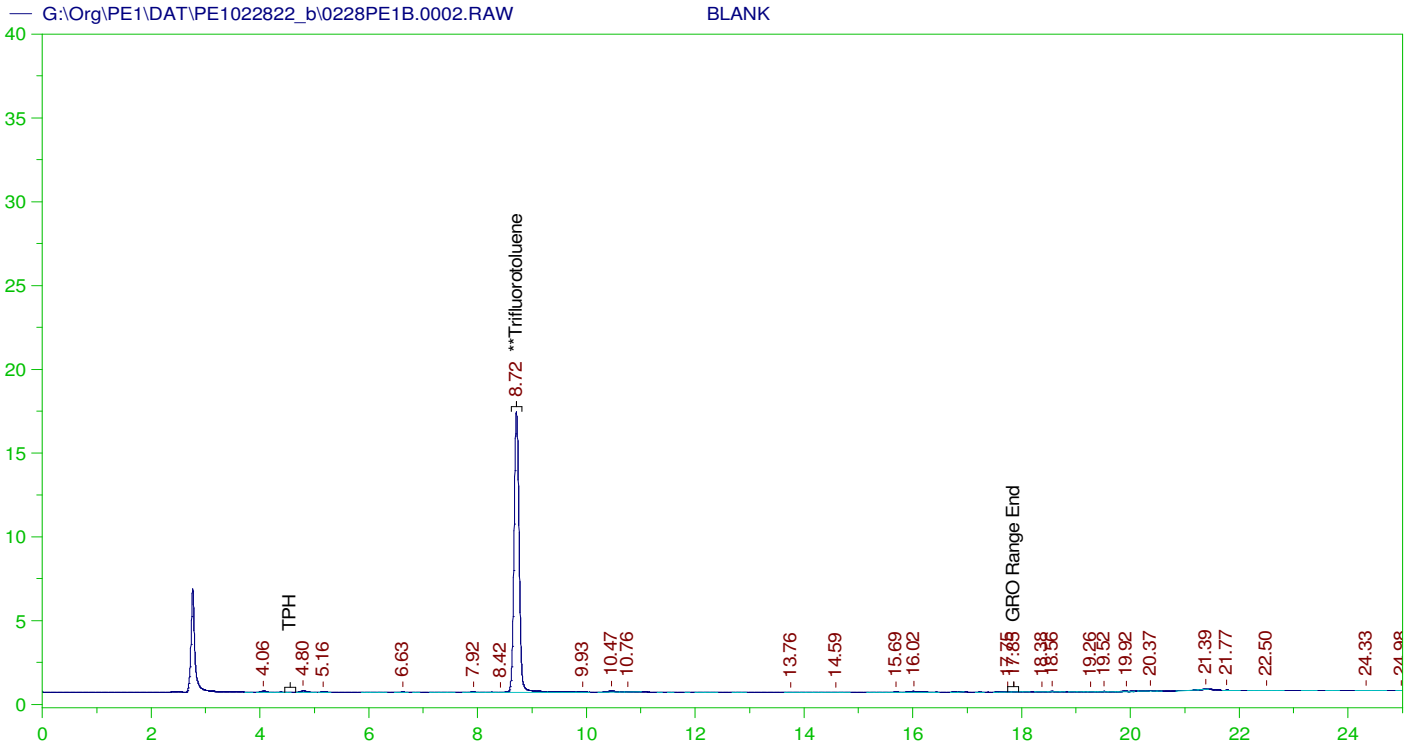
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0001.RAW  
 Date & Time Acquired: 2/28/2022 7:45:29 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.724	125.	100.099	80.08

GRO Area:4753.274 GRO Amount: 4.908134  
 TPH Area:12427.46 TPH Amount: 13.24333



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

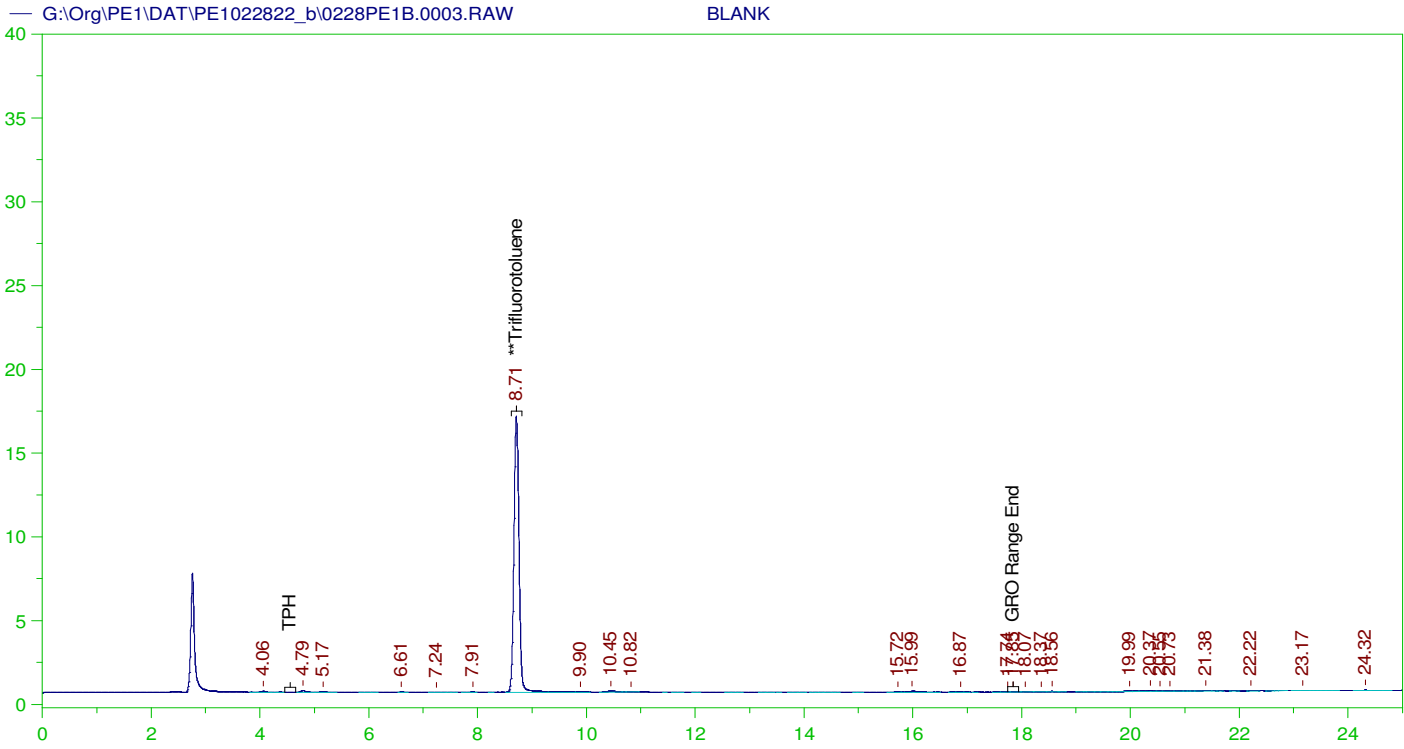
Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0002.RAW  
 Date & Time Acquired: 2/28/2022 8:19:39 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	125.	105.217	84.17

GRO Area:3514.841 GRO Amount: 3.629353  
 TPH Area:5572.243 TPH Amount: 5.938067





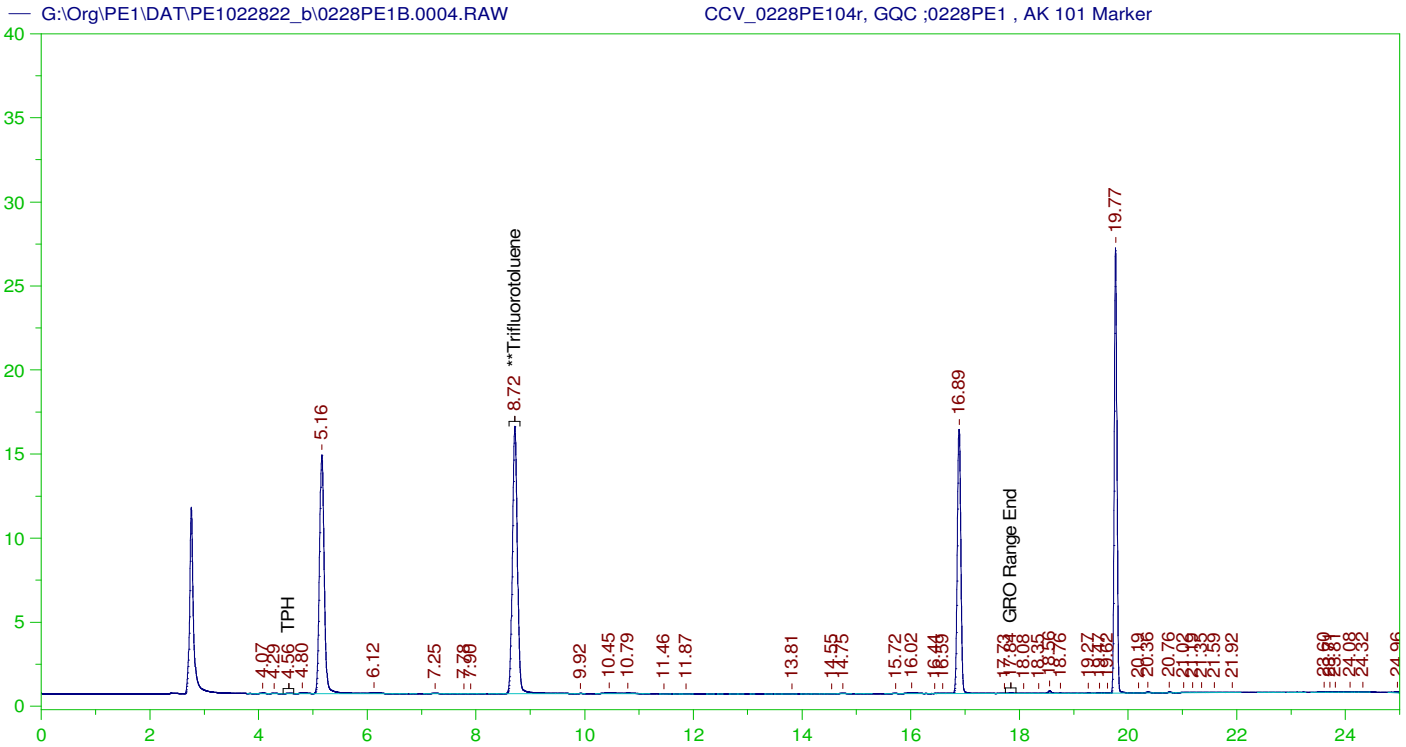
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0003.RAW  
 Date & Time Acquired: 2/28/2022 8:53:50 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	125.	103.434	82.75

GRO Area:3211.288 GRO Amount: 3.31591  
 TPH Area:5565.733 TPH Amount: 5.93113



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE104r, GQC ;0228PE1 , AK 101 Marker  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0004.RAW  
 Date & Time Acquired: 2/28/2022 9:28:00 AM  
 Method File: G:\Org\PE1\Methods\220203GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220131GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 771.0573  
 Mean RF for TPH: 722.4935  
 Rt range for Gasoline Range Organics: 4.45 to 17.94

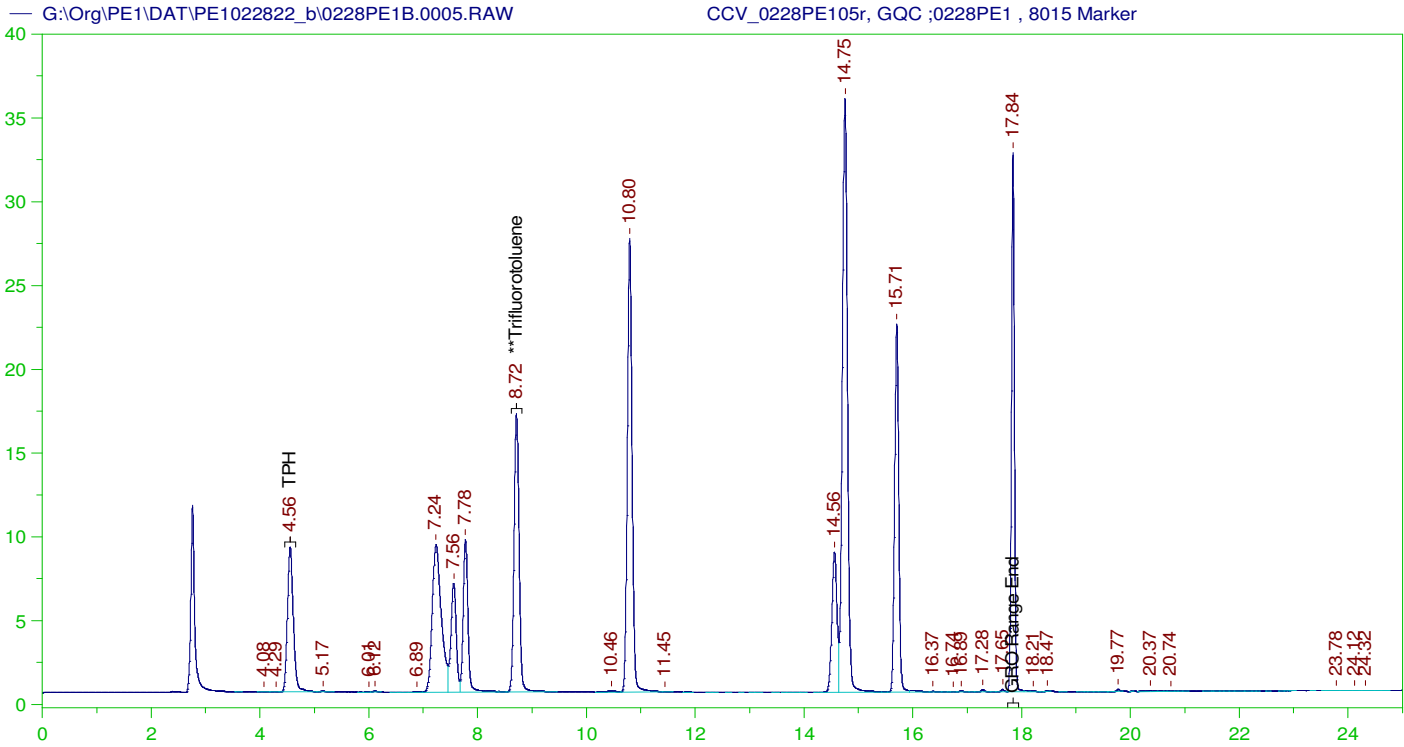
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	125.	123.081	98.46

GRO Area:162838.4 GRO Amount: 211.1885  
 TPH Area:256212.1 TPH Amount: 354.622

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0004.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	211.19	25.14	85-115
TPH	1000.	354.62	35.46	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.716	125.	123.081	98.46	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE105r, GQC ;0228PE1 , 8015 Marker  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0005.RAW  
 Date & Time Acquired: 2/28/2022 10:02:14 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

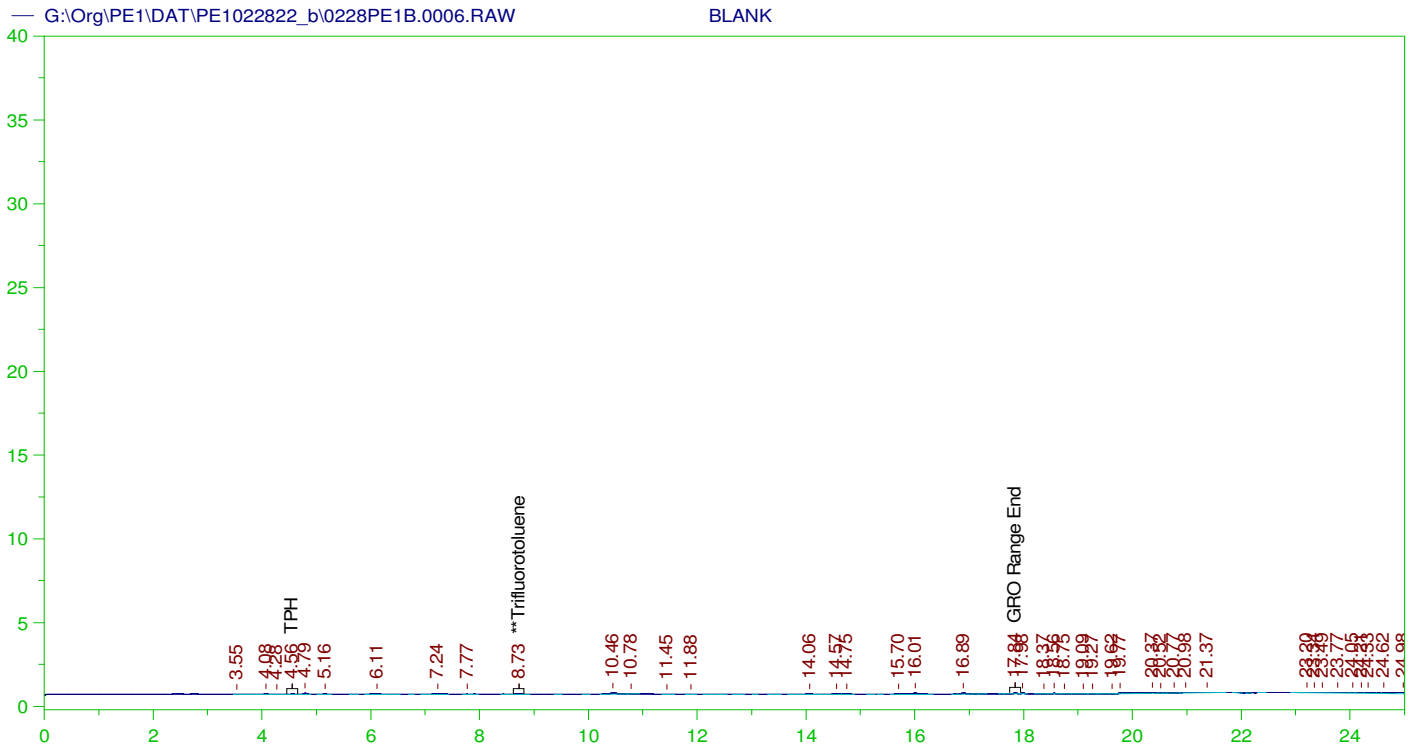
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	125.	104.205	83.36

GRO Area:970277.6 GRO Amount: 1001.889  
 TPH Area:972678.9 TPH Amount: 1036.536

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0005.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1001.89	119.27	85-115
TPH	1000.	1036.54	103.65	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.716	125.	104.205	83.36	85-115



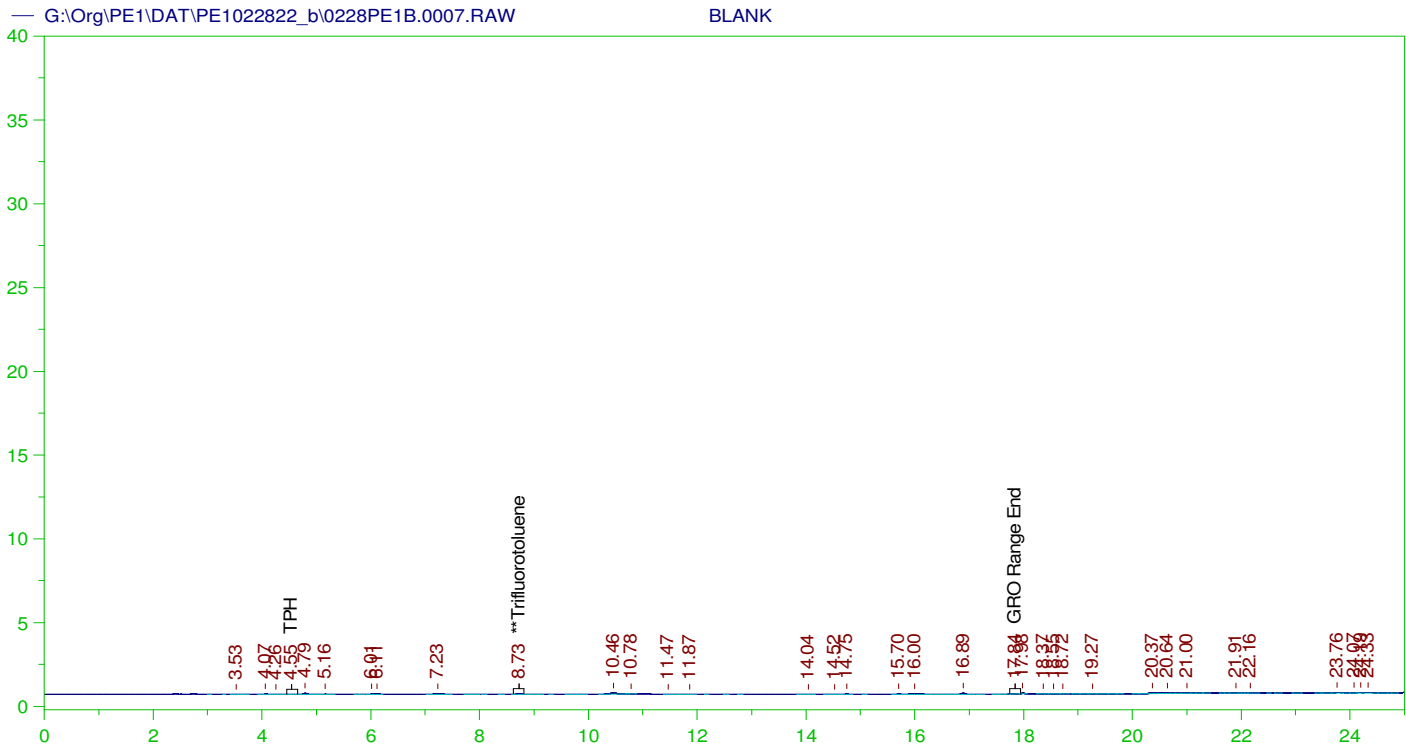
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0006.RAW  
 Date & Time Acquired: 2/28/2022 10:36:31 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.729	125.	.139	.11

GRO Area:4909.803 GRO Amount: 5.069762  
 TPH Area:10746.06 TPH Amount: 11.45155



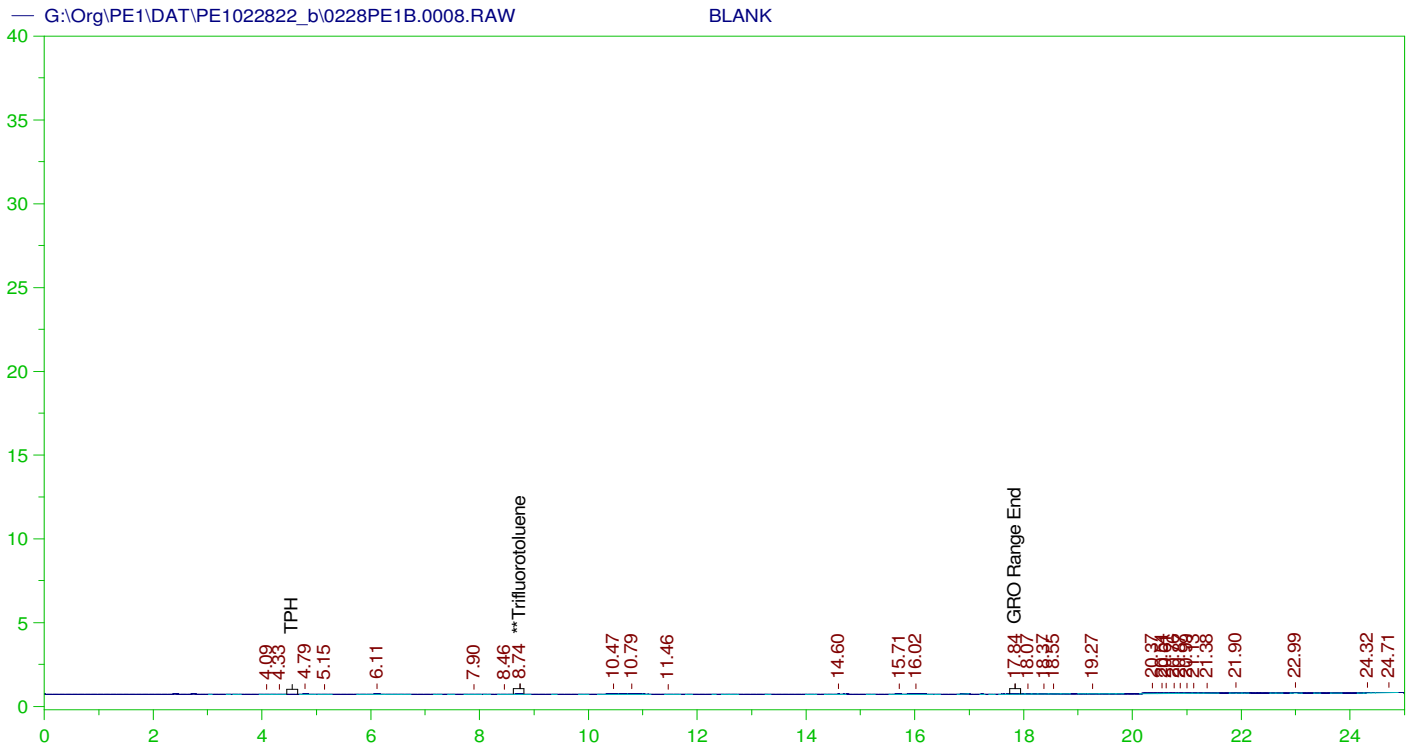
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0007.RAW  
 Date & Time Acquired: 2/28/2022 11:10:45 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.726	125.	.128	.1

GRO Area:3880.091 GRO Amount: 4.006503  
 TPH Area:6255.226 TPH Amount: 6.665888



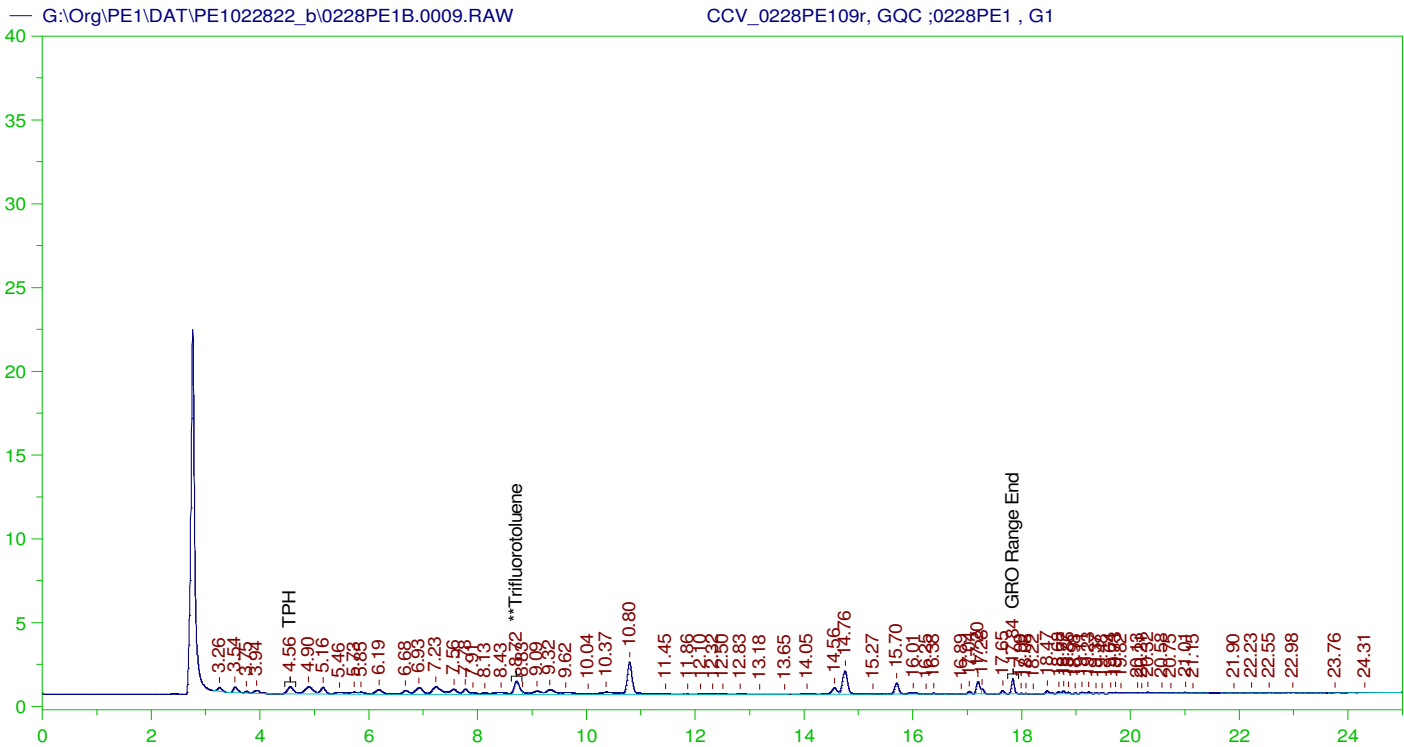
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0008.RAW  
 Date & Time Acquired: 2/28/2022 11:45:01 AM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.741	125.	.121	.1

GRO Area:2651.122 GRO Amount: 2.737494  
 TPH Area:4799.995 TPH Amount: 5.115119



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE109r, GQC ;0228PE1 , G1  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0009.RAW  
 Date & Time Acquired: 2/28/2022 12:19:22 PM  
 Method File: G:\Org\PE1\Methods\220228GROG1B%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

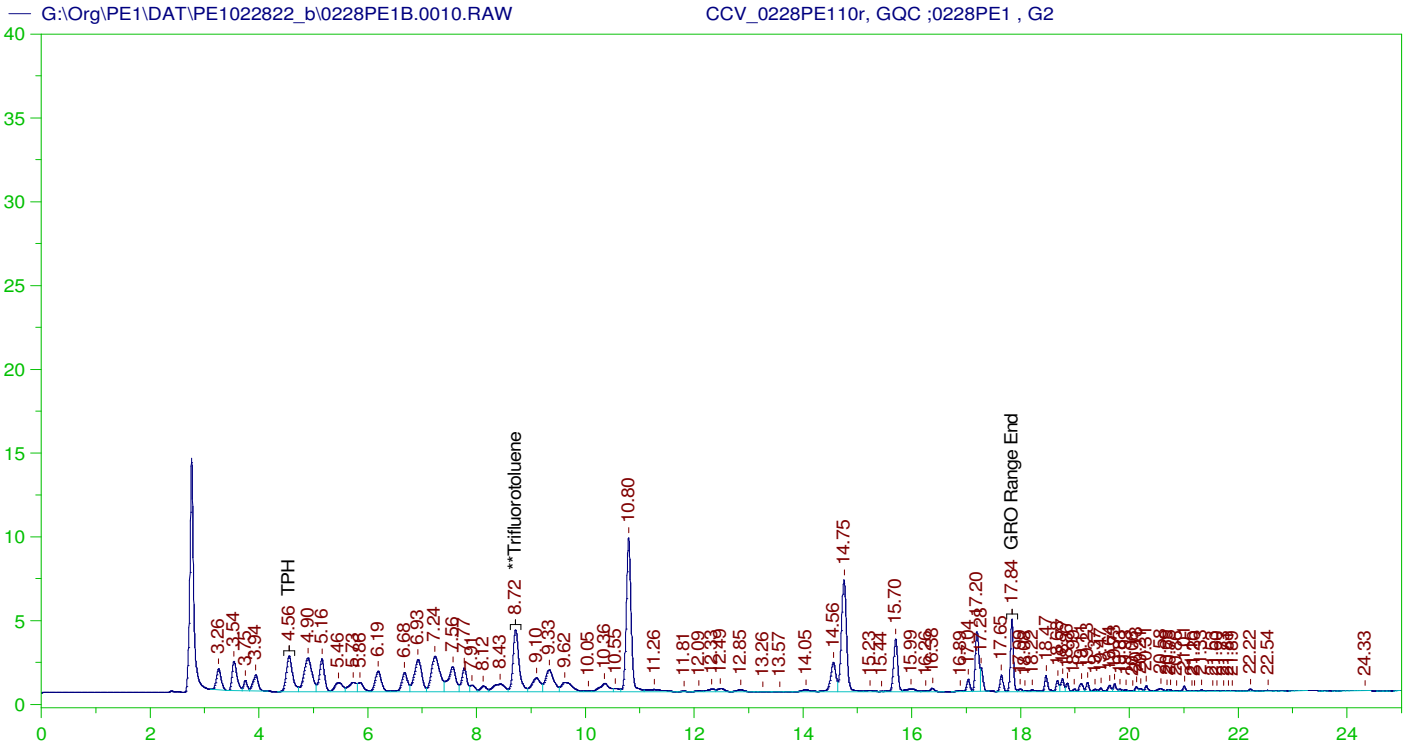
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.718	125.	5.287	4.23

GRO Area:82561.1 GRO Amount: 85.2509  
 TPH Area:94641.32 TPH Amount: 100.8546

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0009.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	85.25	10.15	85-115
TPH	1000.	100.85	10.09	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.718	125.	5.287	4.23	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE110r, GQC ;0228PE1 , G2  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0010.RAW  
 Date & Time Acquired: 2/28/2022 12:53:45 PM  
 Method File: G:\Org\PE1\Methods\220228GROG2B%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.719	125.	27.865	22.29	-

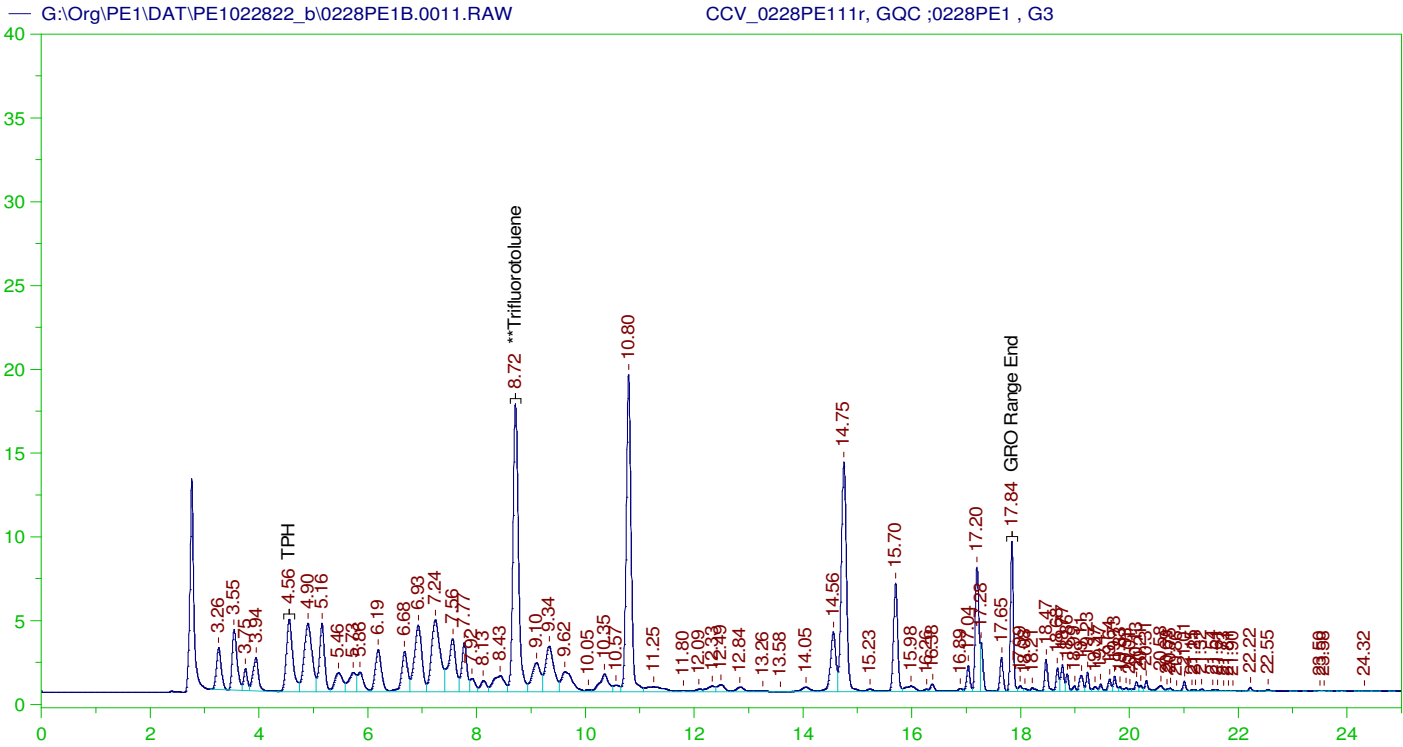
GRO Area:394838.4 GRO Amount: 407.7021  
 TPH Area:454202.8 TPH Amount: 484.0217

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0010.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	407.7	48.54	85-115
TPH	1000.	484.02	48.4	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.719	125.	27.865	22.29	85-115





**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE111r, GQC ;0228PE1 , G3  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0011.RAW  
 Date & Time Acquired: 2/28/2022 1:27:59 PM  
 Method File: G:\Org\PE1\Methods\220228GROG3B%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

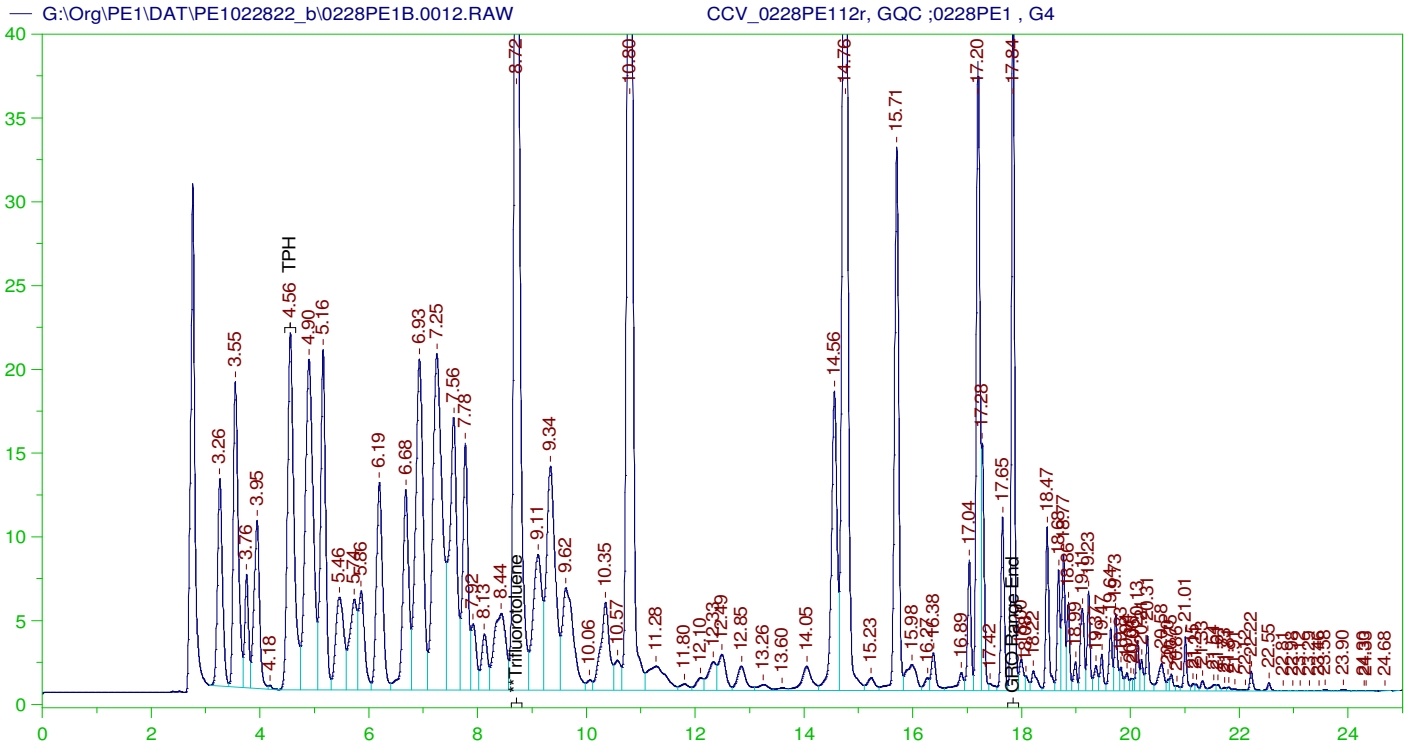
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	125.	116.806	93.45

GRO Area:814311.9 GRO Amount: 840.8417  
 TPH Area:937223.2 TPH Amount: 998.7529

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0011.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	840.84	100.1	85-115
TPH	1000.	998.75	99.88	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.716	125.	116.806	93.45	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE112r, GQC ;0228PE1 , G4  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0012.RAW  
 Date & Time Acquired: 2/28/2022 2:02:13 PM  
 Method File: G:\Org\PE1\Methods\220228GROG4B%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

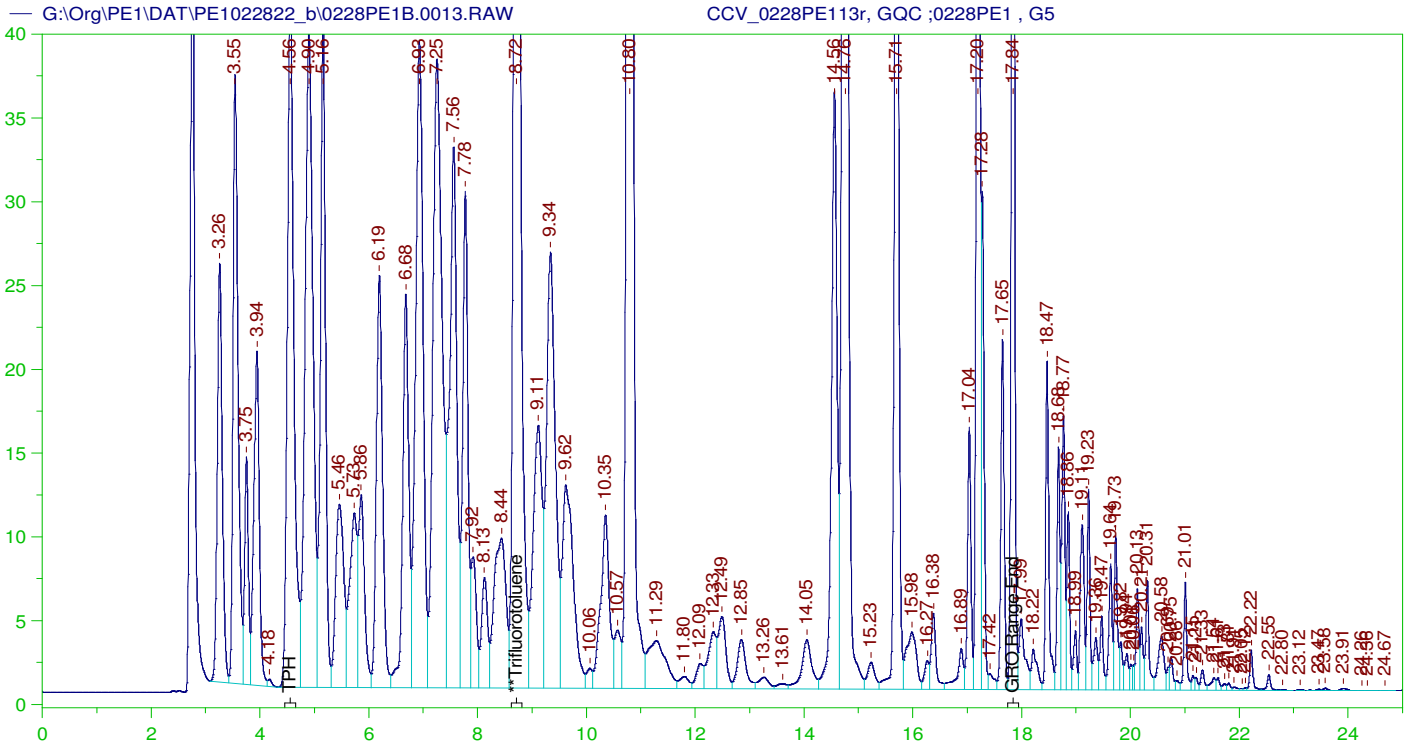
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.718	125.	472.006	377.6	-

GRO Area:4103465 GRO Amount: 4237.154  
 TPH Area:4755095 TPH Amount: 5067.271

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0012.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	4237.15	504.42	85-115
TPH	1000.	5067.27	506.73	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.718	125.	472.006	377.6	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE113r, GQC ;0228PE1 , G5  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0013.RAW  
 Date & Time Acquired: 2/28/2022 2:36:27 PM  
 Method File: G:\Org\PE1\Methods\220228GROG5B%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

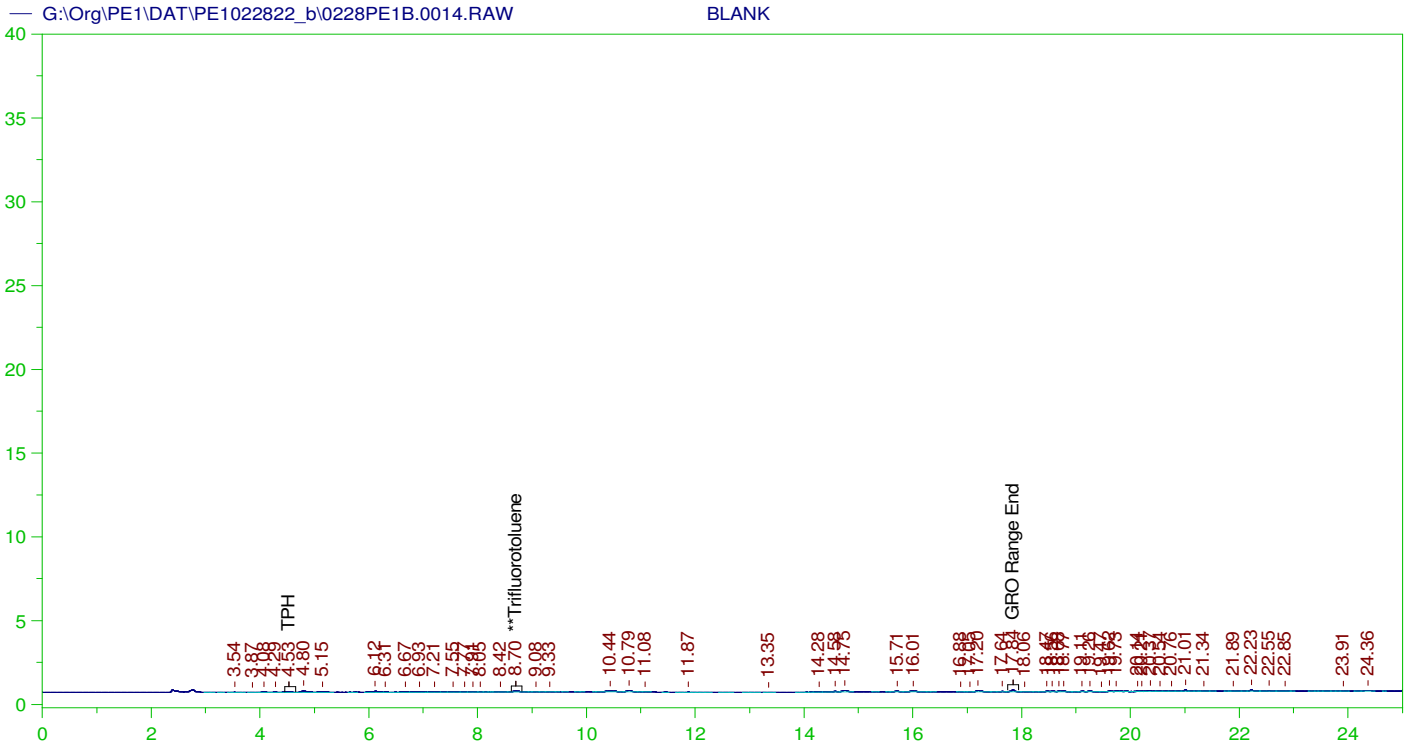
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.719	125.	949.486	759.59	-

GRO Area:8171910 GRO Amount: 8438.146  
 TPH Area:9489061 TPH Amount: 10112.03

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	8438.15	1004.54	85-115
TPH	1000.	10112.03	1011.2	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.719	125.	949.486	759.59	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0014.RAW  
 Date & Time Acquired: 2/28/2022 3:10:41 PM  
 Method File: G:\Org\PE1\Methods\220228GROB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

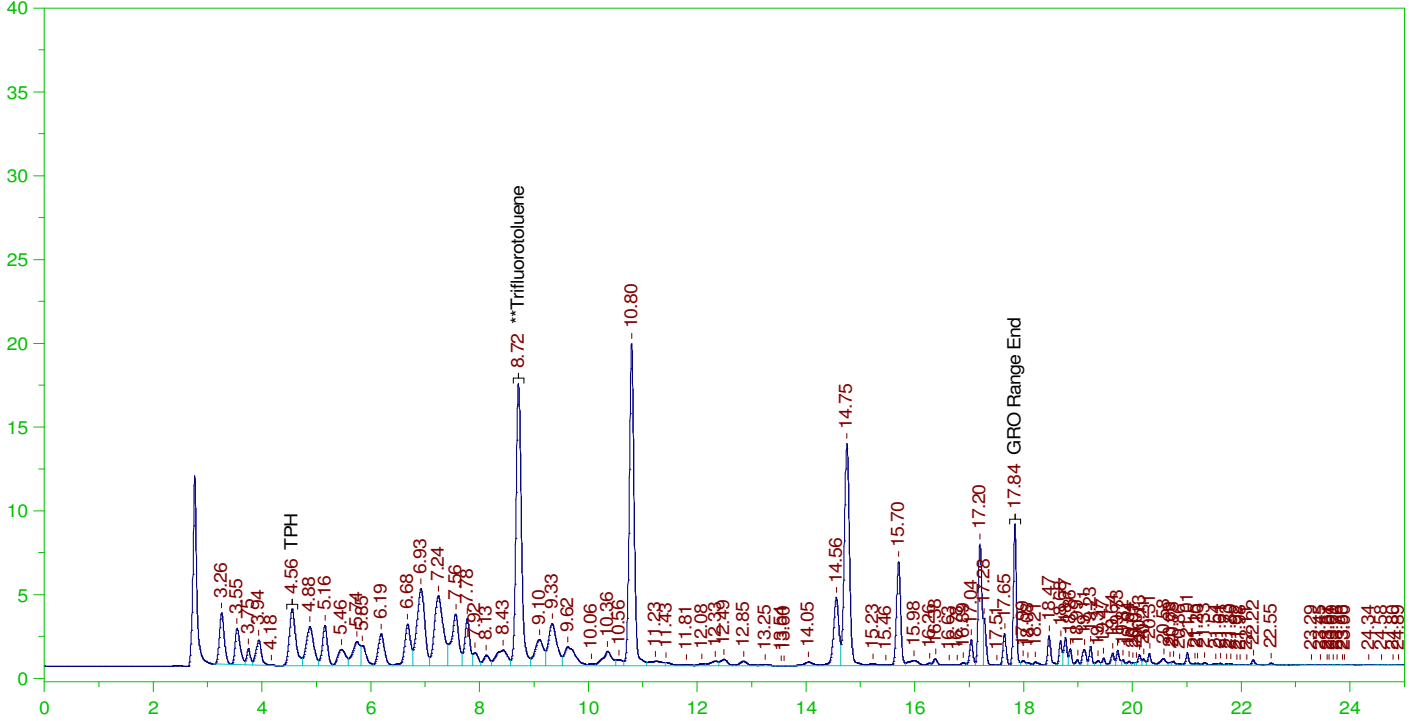
Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.699	125.	.606	.48

GRO Area: 9598.93 GRO Amount: 9.911658  
 TPH Area: 13997.71 TPH Amount: 14.91668

G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0015.RAW

LCS\_0228PE115r, GQC ;0228PE1 , ICV



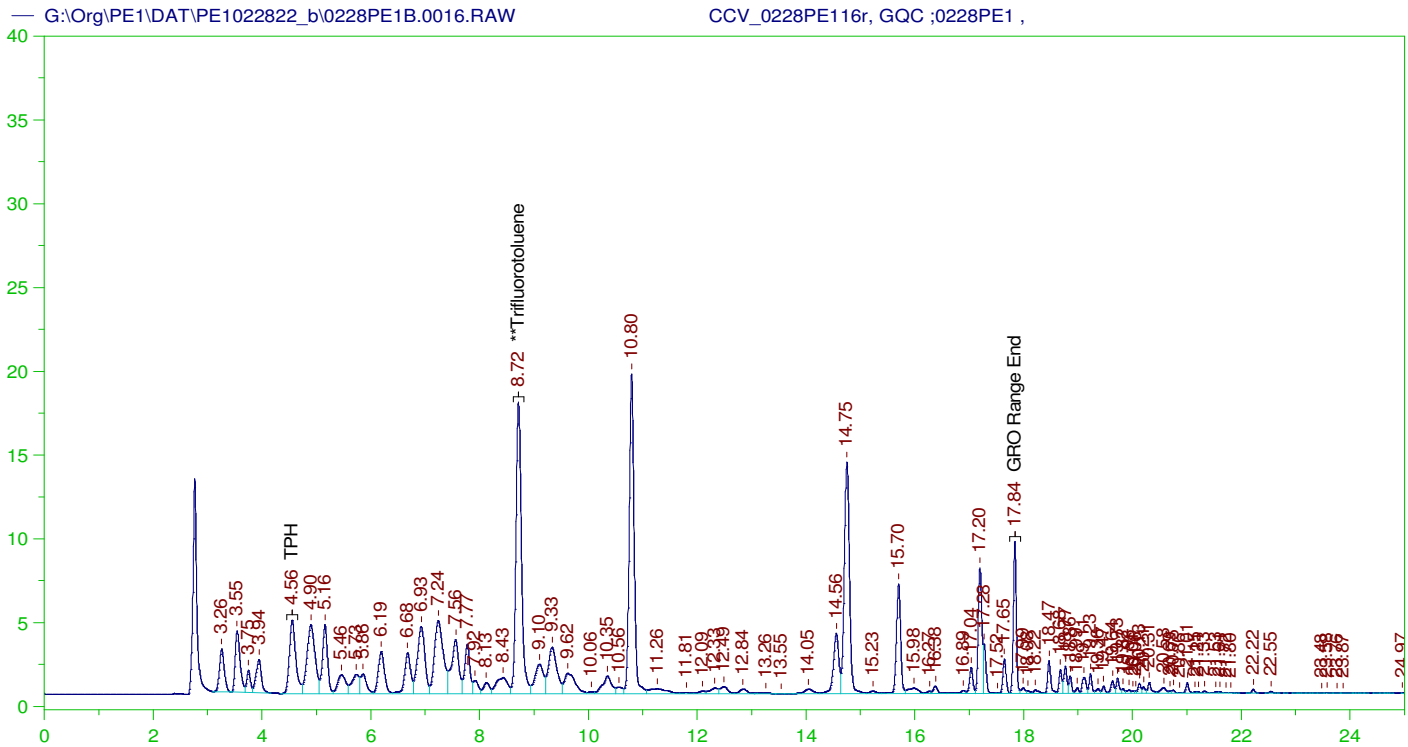
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS\_0228PE115r, GQC ;0228PE1 , ICV  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0015.RAW  
 Date & Time Acquired: 2/28/2022 3:45:00 PM  
 Method File: G:\Org\PE1\Methods\220228GROICVB%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	25.	22.65	90.6

GRO Area:767070.2 GRO Amount: 158.4122  
 TPH Area:886541.6 TPH Amount: 188.9488



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0228PE116r, GQC ;0228PE1 ,  
 Raw File: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0016.RAW  
 Date & Time Acquired: 2/28/2022 4:19:19 PM  
 Method File: G:\Org\PE1\Methods\220228GROCCVB%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.716	125.	118.445	94.76	-

GRO Area:826790.9 GRO Amount: 853.7273  
 TPH Area:951263.1 TPH Amount: 1013.715

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1022822\_b\0228PE1B.0016.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	853.73	101.63	85-115
TPH	1000.	1013.72	101.37	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.716	125.	118.445	94.76	85-115

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1022822_b\0228PE1.01r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.02r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.03r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.04r	CCV_0228PE104r, GQC ;0228PE1 , AK 101 Marker	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.05r	CCV_0228PE105r, GQC ;0228PE1 , 8015 Marker	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.06r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.07r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.08r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.09r	CCV_0228PE109r, GQC ;0228PE1 , G1	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1022822_b\0228PE1.10r	CCV_0228PE110r, GQC ;0228PE1 , G2	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1022822_b\0228PE1.11r	CCV_0228PE111r, GQC ;0228PE1 , G3	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1022822_b\0228PE1.12r	CCV_0228PE112r, GQC ;0228PE1 , G4	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1022822_b\0228PE1.13r	CCV_0228PE113r, GQC ;0228PE1 , G5	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1022822_b\0228PE1.14r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1022822_b\0228PE1.15r	LCS_0228PE115r, GQC ;0228PE1 , ICV	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1022822_b\0228PE1.16r	CCV_0228PE116r, GQC ;0228PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons

*Josie M Pickard*  
Chemist

Digitally signed by  
Josie Pickard  
Date: 2022.03.01 09:25:19 -07:00

# Energy Laboratories Inc

# ANALYTICAL RUN Summary

02-Mar-22

Run ID PE 1\_220301A

<b>Run Start Date:</b> 3/1/2022
<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
TFT220228	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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15061989	CCV_0301PE10	HC-8015-GRO-	SAMP		3/1/2022 11:10:2	1	R375413		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	193.0613	193.0613		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	199.7506	199.7506		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.94222	19.94222		25	0	0	0.0743	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			
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15061990	CCV_0301PE10	HC-8015-GRO-	CCV		3/1/2022 11:44:3	1	R375413		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	170.7346	170.7346		168	0	0	2.32	20	0	102%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.2379	202.2379		200	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	23.05	23.05		25	0	0	0.0743	1	0	92%	80	120	0%	



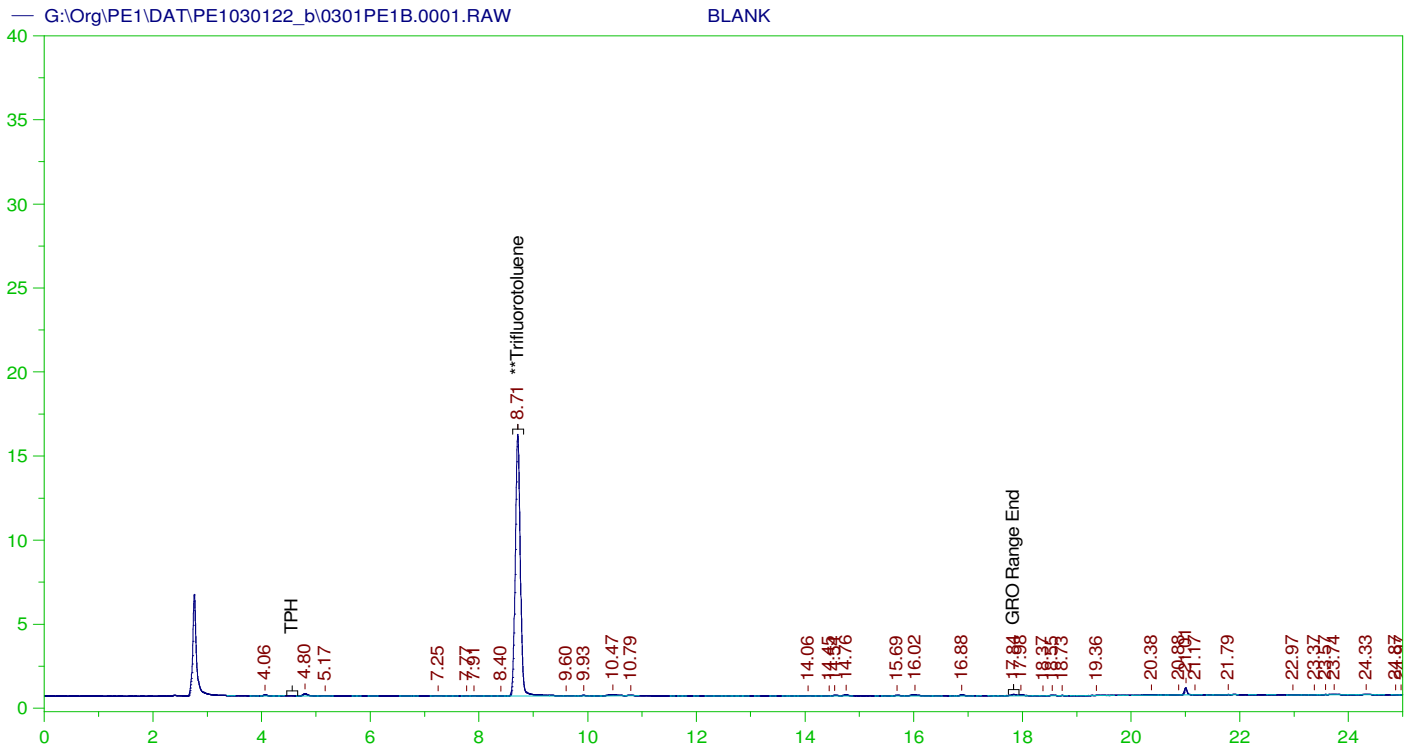
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15061991	LCS_0301PE10	HC-8015-GRO-	LCS		3/1/2022 12:19:0	1	R375413		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	154.0622	154.0622		170	0	0	2.32	20	0	91%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	183.5539	183.5539		200	0	0	3.56	20	0	92%	70	130	0%	
Trifluorotoluene	S	ug/L	22.27822	22.27822		25	0	0	0.0743	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					
15061992	MBLK_0301PE	HC-8015-GRO-	MBLK		3/1/2022 12:53:2	1	R375413		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	2.32	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.1214	20.1214		25	0	0	0.0743	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					
15061993	B22021763-001	HC-8015-GRO-	SAMP		3/1/2022 1:27:36	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.183978	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.4858	19.4858		25	0	0	0.0743	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					
15061994	B22021763-003	HC-8015-GRO-	SAMP		3/1/2022 2:36:02	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	3.040487	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.62162	19.62162		25	0	0	0.0743	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					
15061995	B22021763-008	HC-8015-GRO-	SAMP		3/1/2022 3:10:17	1	R375413		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					
15061995	B22021763-008	HC-8015-GRO-	SAMP		3/1/2022 3:10:17	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	20.05873	20.05873		25	0	0	0.0743	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					
15061996	B22021763-013	HC-8015-GRO-	SAMP		3/1/2022 3:44:35	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.348945	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.71317	19.71317		25	0	0	0.0743	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					
15061997	B22021763-019	HC-8015-GRO-	SAMP		3/1/2022 4:18:55	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.76529	19.76529		25	0	0	0.0743	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					
15061998	B22021763-006	HC-8015-GRO-	SAMP		3/1/2022 4:53:15	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.56003	19.56003		25	0	0	0.0743	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					
15061999	B22021763-011	HC-8015-GRO-	SAMP		3/1/2022 5:27:40	1	R375413		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					
15061999	B22021763-011	HC-8015-GRO-	SAMP		3/1/2022 5:27:40	1	R375413		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	2.48922	2.48922		0	0	0	2.32	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	31.21881	31.21881		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.69154	19.69154		25	0	0	0.0743	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					
15062000	B22021763-016	HC-8015-GRO-	SAMP		3/1/2022 6:36:34	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.74282	19.74282		25	0	0	0.0743	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					
15062001	B22021763-017	HC-8015-GRO-	SAMP		3/1/2022 7:45:09	1	R375413		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	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.58822	19.58822		25	0	0	0.0743	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					
15062002	B22021763-001	HC-8015-GRO-	MS		3/1/2022 8:53:44	1	R375413		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	149.5099	149.5099		170	0	0	2.32	20	0	88%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	178.3861	178.3861		200	0	0	3.56	20	0	89%	70	130	0%	
Trifluorotoluene	S	ug/L	21.12347	21.12347		25	0	0	0.0743	1	0	84%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
15062003	B22021763-001	HC-8015-GRO-	MSD		3/1/2022 9:28:04	1	R375413		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					
15062003	B22021763-001	HC-8015-GRO-	MSD		3/1/2022 9:28:04	1	R375413		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	156.2326	156.2326		170	0	149.5099	2.32	20	0	92%	78	122	4%	
Total Purgeable Hydrocarbons	A	ug/L	185.9821	185.9821		200	0	178.3861	3.56	20	0	93%	70	130	4%	
Trifluorotoluene	S	ug/L	22.35295	22.35295		25	0	0	0.0743	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					
15062004	CCV_0301PE12	HC-8015-GRO-	SAMP		3/1/2022 10:02:2	1	R375413		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	188.1688	188.1688		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	195.0594	195.0594		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.81395	19.81395		25	0	0	0.0743	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					
15062005	CCV_0301PE12	HC-8015-GRO-	CCV		3/1/2022 10:36:3	1	R375413		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	165.0531	165.0531		168	0	0	2.32	20	0	98%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	196.5014	196.5014		200	0	0	3.56	20	0	98%	80	120	0%	
Trifluorotoluene	S	ug/L	22.66992	22.66992		25	0	0	0.0743	1	0	91%	80	120	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\PE1\DAT\PE1030122_b\0301PE1.01r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.02r	CCV_0301PE102r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.03r	CCV_0301PE103r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.04r	LCS_0301PE104r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.05r	MBLK_0301PE105r, QC ;0301PE1 ,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.06r	B22021763-001G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.07r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.08r	B22021763-003A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.09r	B22021763-008A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.10r	B22021763-013A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.11r	B22021763-019A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.12r	B22021763-006G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.13r	B22021763-011G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.14r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.15r	B22021763-016G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.16r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.17r	B22021763-017D ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.18r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.19r	B22021763-001GMS, GQC ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.20r	B22021763-001GMSD, GQC ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.21r	CCV_0301PE121r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.22r	CCV_0301PE122r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0
G:\Org\PE1\DAT\PE1030122_b\0301PE1.23r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0



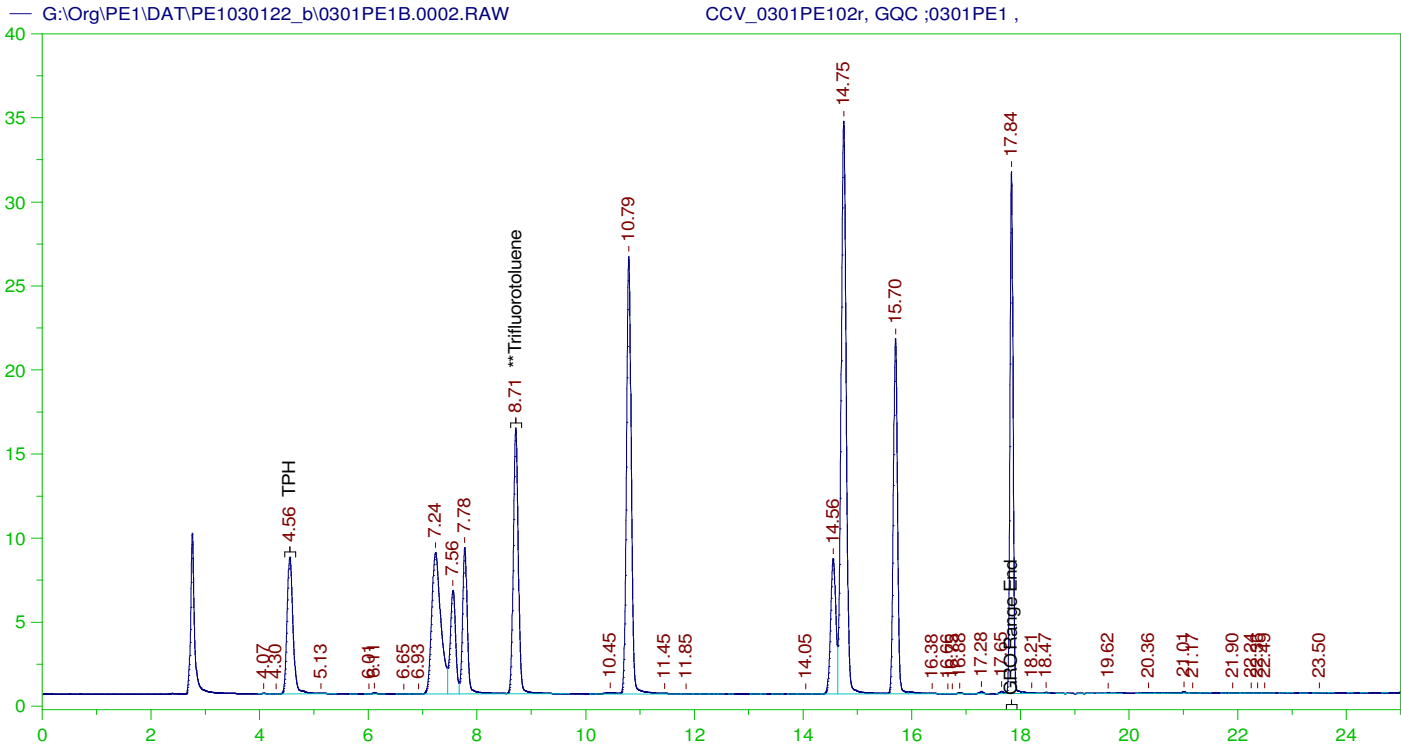
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0001.RAW  
 Date & Time Acquired: 3/1/2022 10:36:04 AM  
 Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	125.	98.169	78.54

C6 to C10 Area:5967.53 C6 to C10 Amount: 6.161949  
 TPH Area:10707.99 TPH Amount: 11.41098



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0301PE102r, GQC ;0301PE1 ,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0002.RAW  
Date & Time Acquired: 3/1/2022 11:10:20 AM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

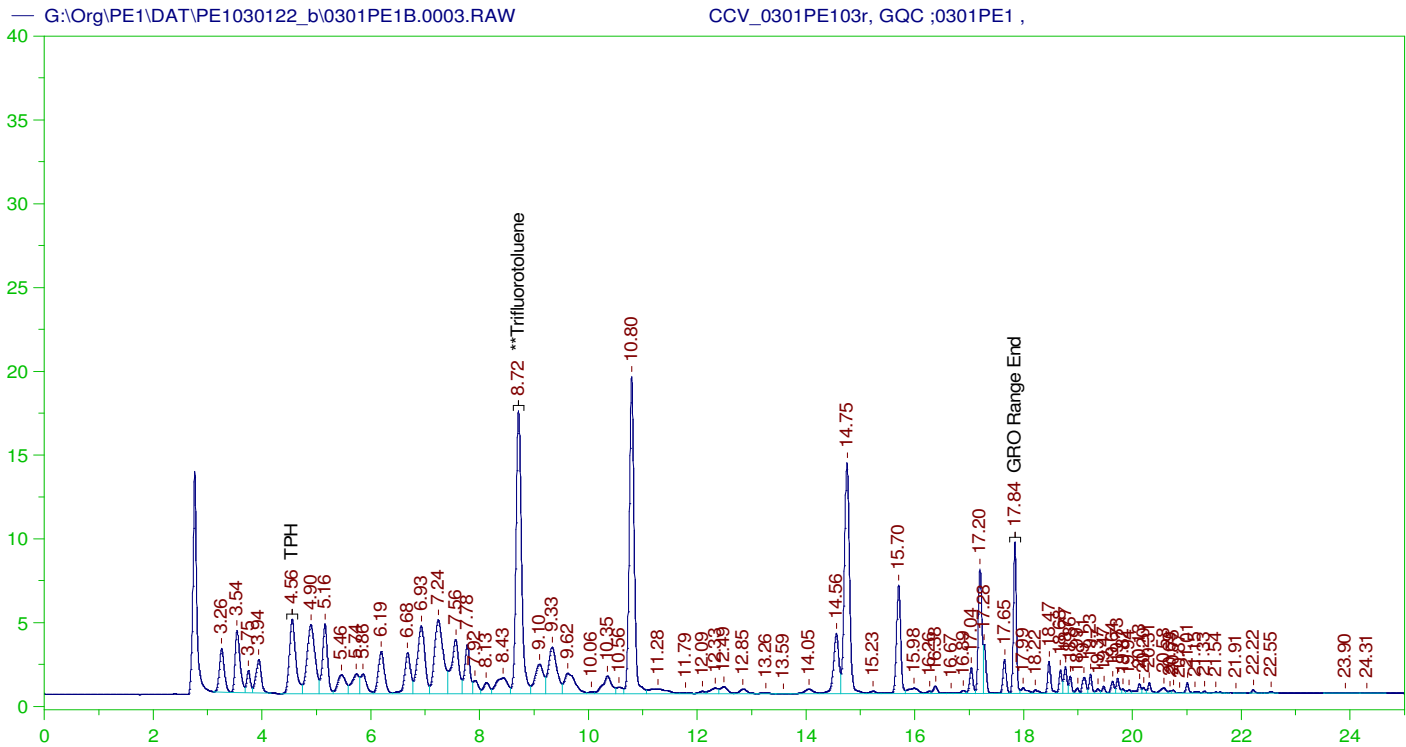
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.714	125.	99.711	79.77	-

C6 to C10 Area:934849.6 C6 to C10 Amount: 965.3066  
TPH Area:937223.2 TPH Amount: 998.7529

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0002.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	965.31	114.92	85-115
TPH	1000.	998.75	99.88	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.714	125.	99.711	79.77	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0301PE103r, GQC ;0301PE1 ,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0003.RAW  
Date & Time Acquired: 3/1/2022 11:44:36 AM  
Method File: G:\Org\PE1\Methods\220228GCCV0301\_03DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.717	125.	115.25	92.2	-

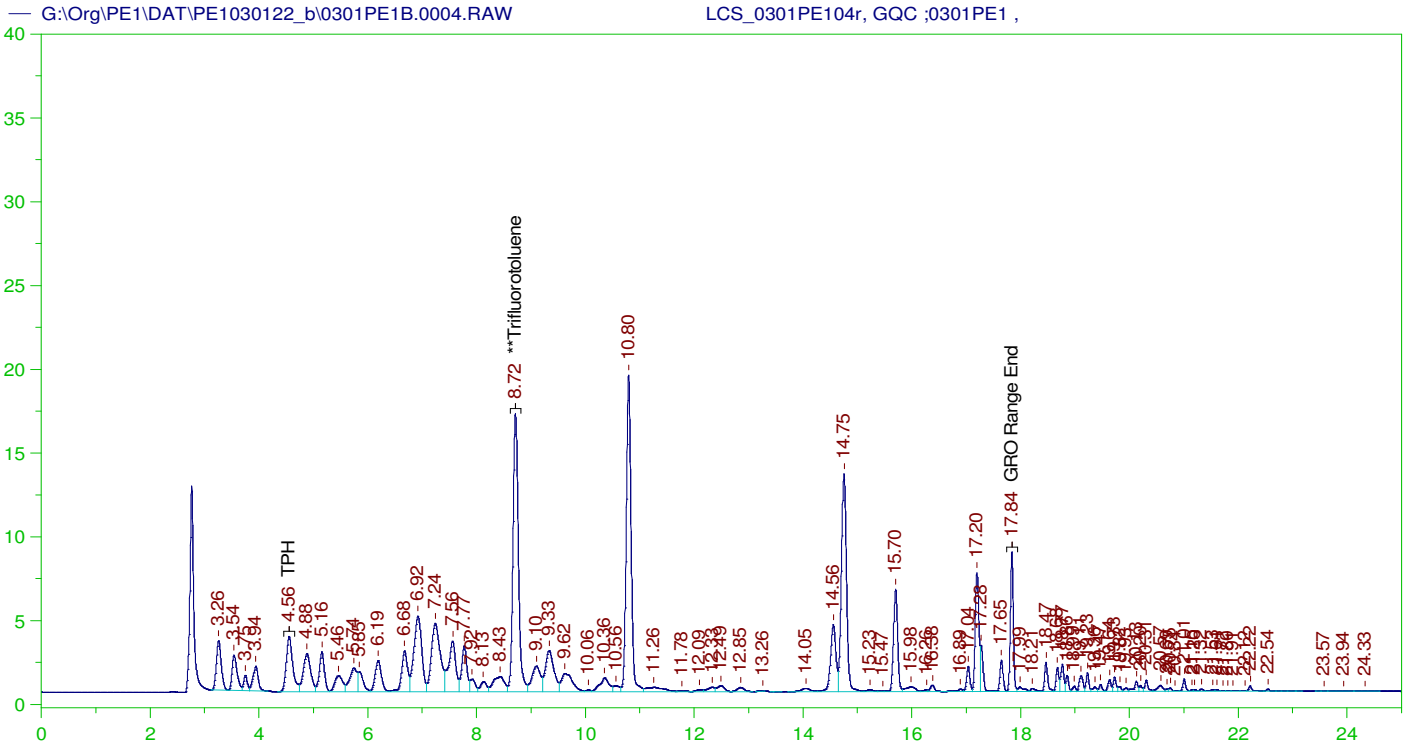
C6 to C10 Area:826738.3 C6 to C10 Amount: 853.673  
TPH Area:948893.6 TPH Amount: 1011.189

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	853.67	101.63	85-115
TPH	1000.	1011.19	101.12	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.717	125.	115.25	92.2	85-115





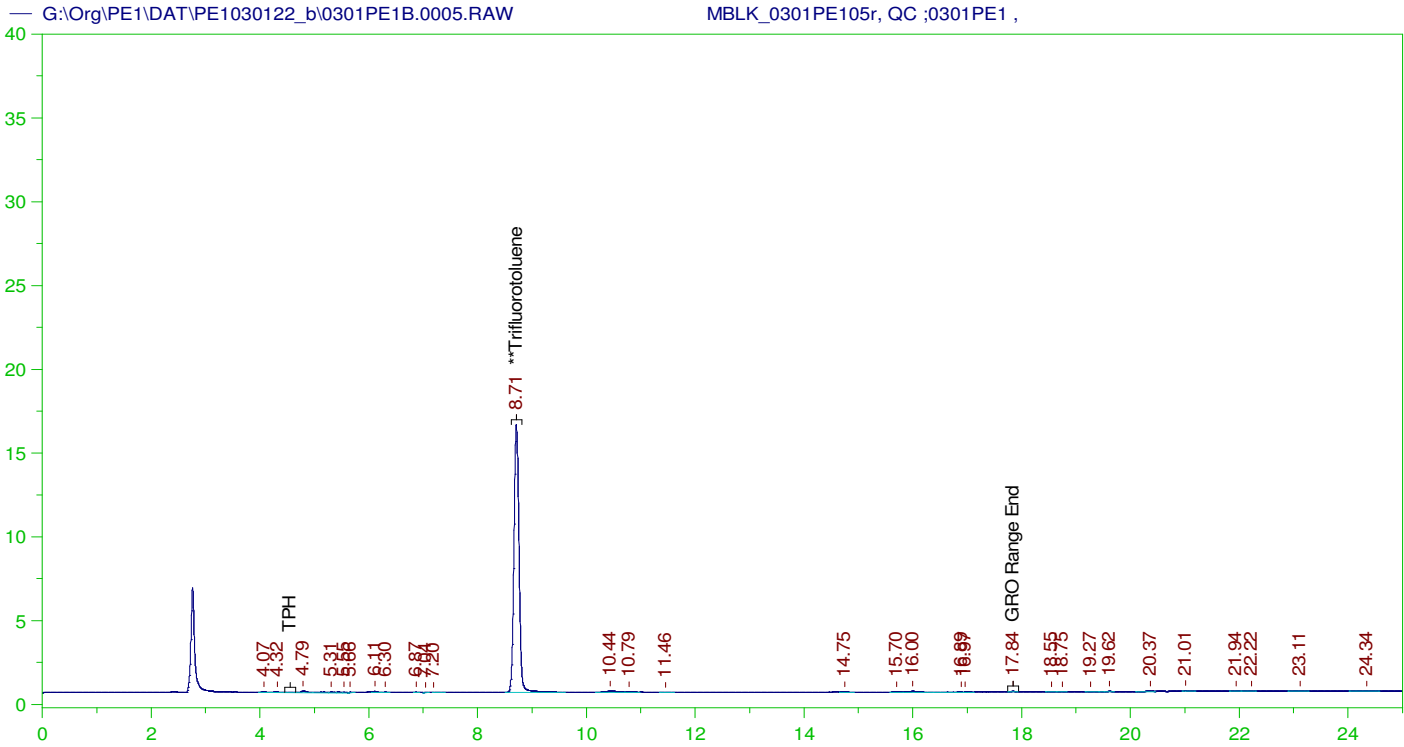
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: LCS\_0301PE104r, GQC ;0301PE1 ,  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0004.RAW  
 Date & Time Acquired: 3/1/2022 12:19:00 PM  
 Method File: G:\Org\PE1\Methods\220228GLCS0301\_04DoDB%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	25.	22.278	89.11

C6 to C10 Area: 746006.4 C6 to C10 Amount: 154.0622  
 TPH Area: 861229.1 TPH Amount: 183.5539



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: MBLK\_0301PE105r, QC ;0301PE1 ,  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0005.RAW  
 Date & Time Acquired: 3/1/2022 12:53:24 PM  
 Method File: G:\Org\PE1\Methods\220228GMB0301\_05DoDB%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

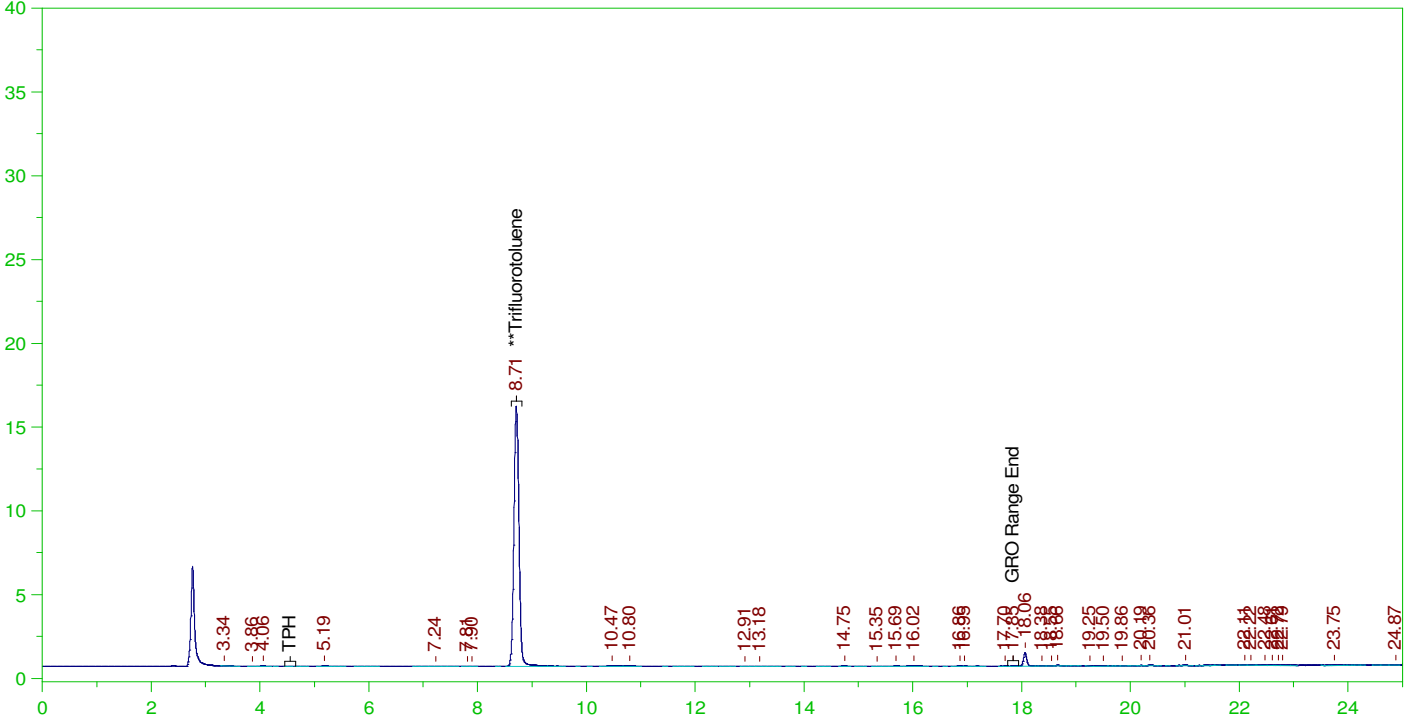
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	25.	20.121	80.49

C6 to C10 Area:5012.105 C6 to C10 Amount: 1.035079  
 TPH Area:6961.782 TPH Amount: 1.483766

ERH22571 (RHMW19)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0006.RAW

B22021763-001G ;0301PE1 , \$HC-8015-GRO-W,



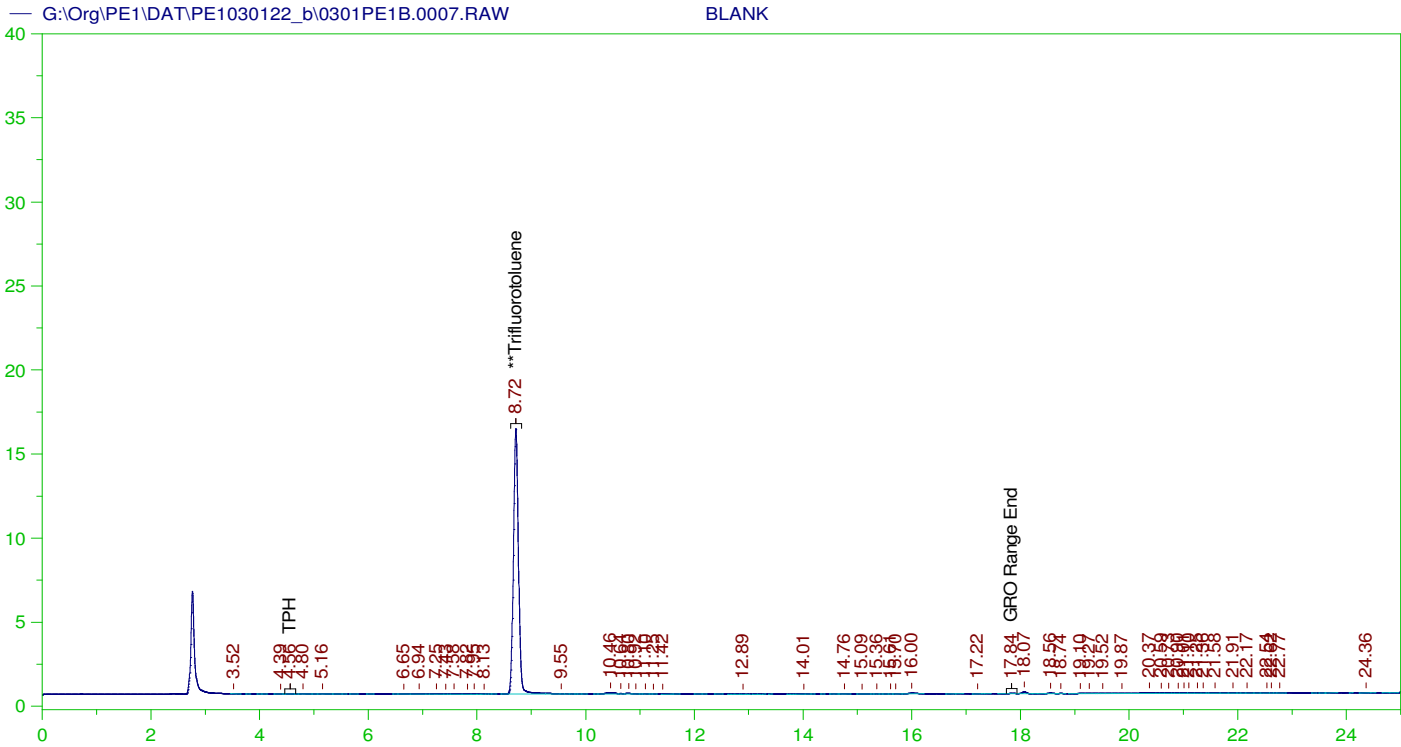
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-001G ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0006.RAW  
Date & Time Acquired: 3/1/2022 1:27:36 PM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	25.	19.486	77.94

C6 to C10 Area:3490.359 C6 to C10 Amount: 0.7208146  
TPH Area:10247.15 TPH Amount: 2.183978



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0007.RAW  
 Date & Time Acquired: 3/1/2022 2:01:49 PM  
 Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

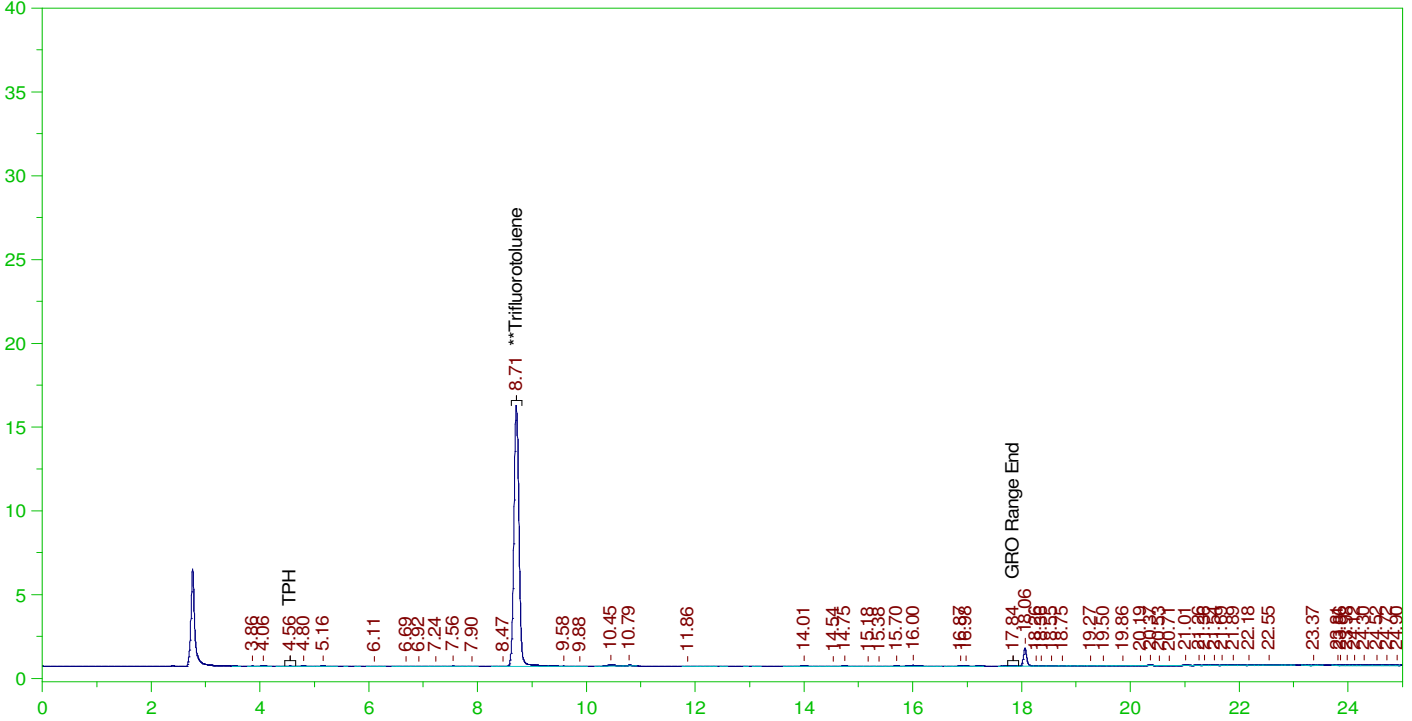
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.717	125.	99.397	79.52

C6 to C10 Area:6381.175 C6 to C10 Amount: 6.58907  
 TPH Area:10190.33 TPH Amount: 10.85934

ERH2570 (Trip Blank-14754)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0008.RAW

B22021763-003A ;0301PE1 , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-003A ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0008.RAW  
Date & Time Acquired: 3/1/2022 2:36:02 PM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

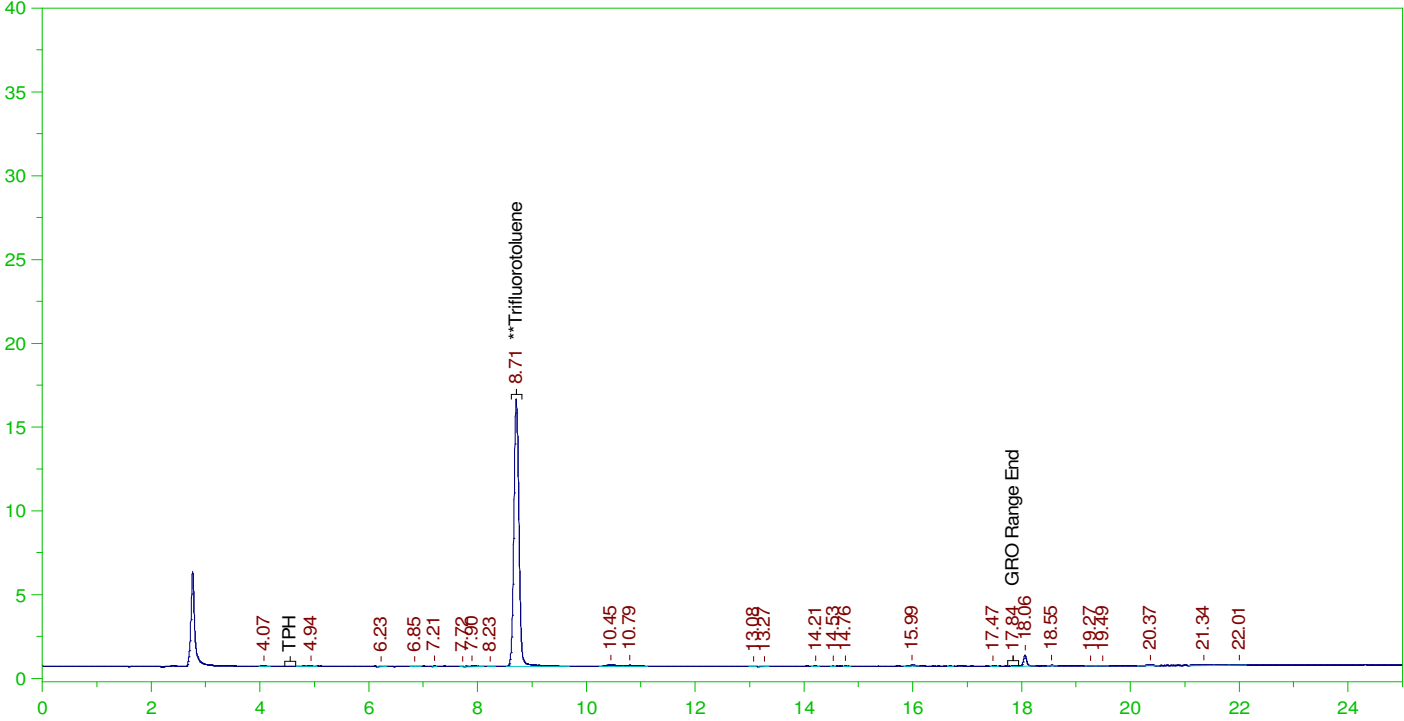
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	25.	19.622	78.49

C6 to C10 Area:5545.541 C6 to C10 Amount: 1.145242  
TPH Area:14265.86 TPH Amount: 3.040487

ERH2557 (Trip Blank) 14894

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0009.RAW

B22021763-008A ;0301PE1 , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-008A ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0009.RAW  
Date & Time Acquired: 3/1/2022 3:10:17 PM  
Method File: G:\Org\PE1\Methods\220228G1763-8DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

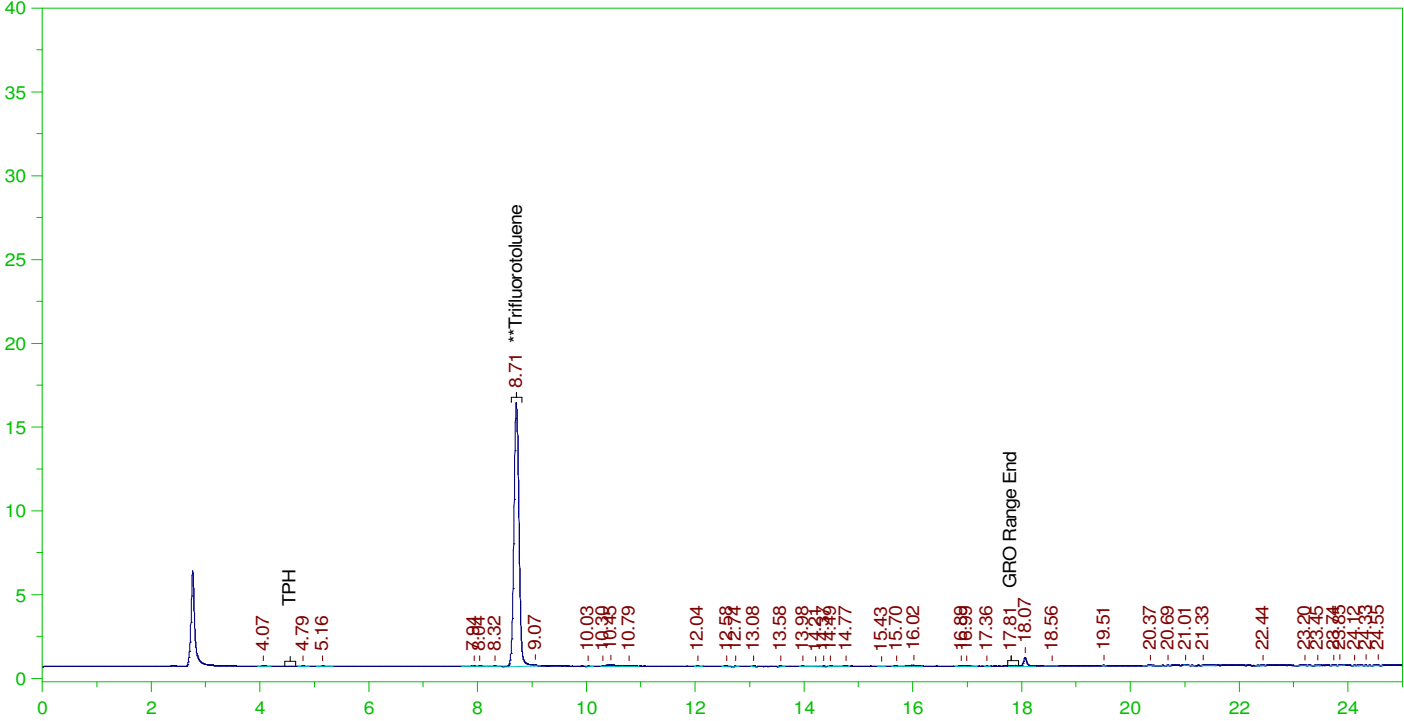
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.713	25.	20.059	80.23

C6 to C10 Area:3971.446 C6 to C10 Amount: 0.8201667  
TPH Area:7840.826 TPH Amount: 1.671117

ERH2562 (Trip Blank-14894)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0010.RAW

B22021763-013A ;0301PE1 , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-013A ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0010.RAW  
Date & Time Acquired: 3/1/2022 3:44:35 PM  
Method File: G:\Org\PE1\Methods\220228G1763-13DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

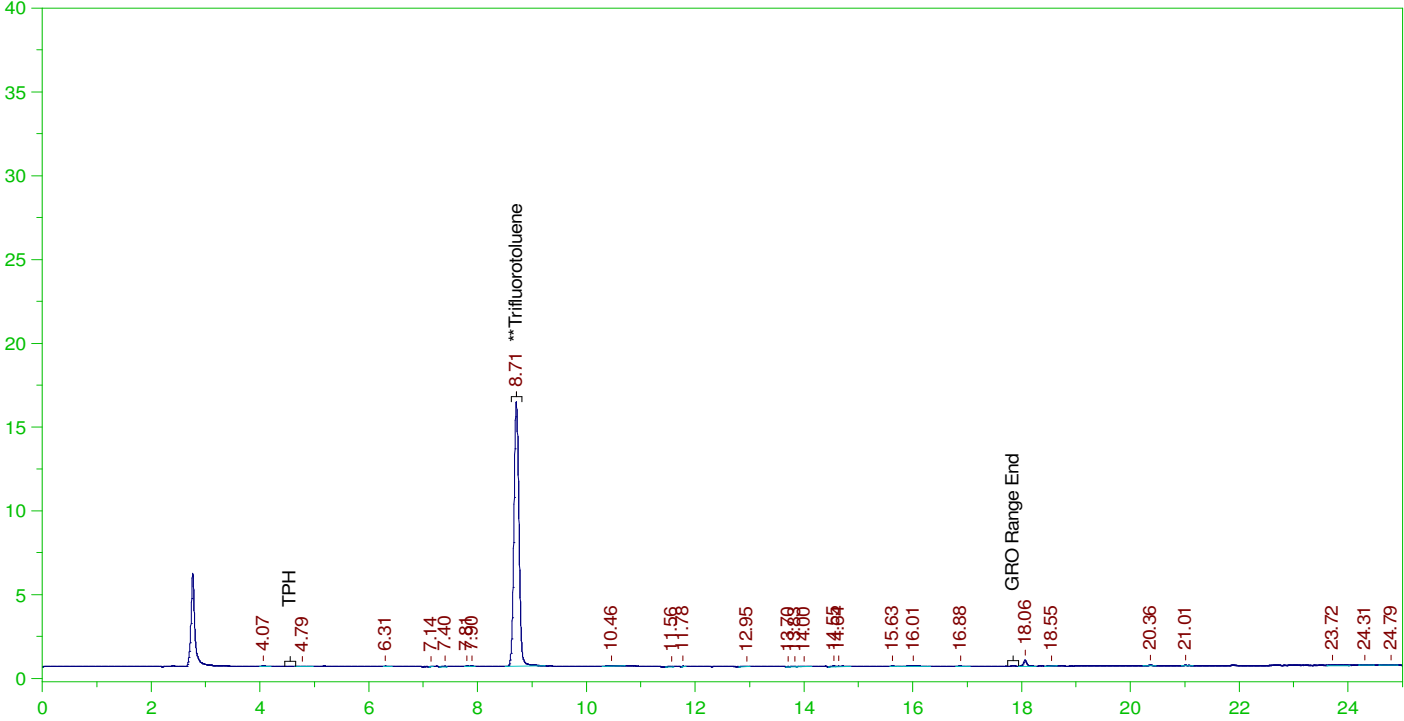
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	25.	19.713	78.85

C6 to C10 Area:6075.308 C6 to C10 Amount: 1.254648  
TPH Area:11021.17 TPH Amount: 2.348945

ERH2559 (Trip Blank-14833)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0011.RAW

B22021763-019A ;0301PE1 , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-019A ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0011.RAW  
Date & Time Acquired: 3/1/2022 4:18:55 PM  
Method File: G:\Org\PE1\Methods\220228G1763-19DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	25.	19.765	79.06

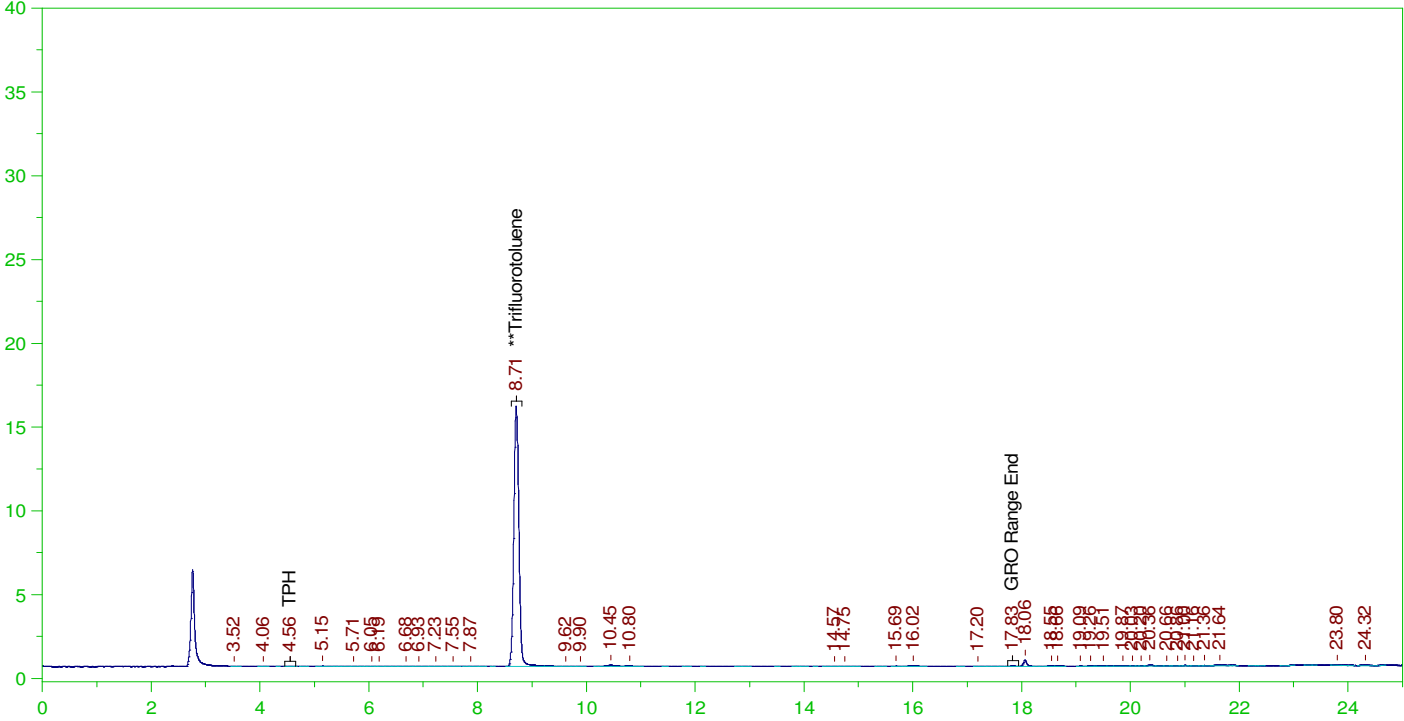
C6 to C10 Area:3324.859 C6 to C10 Amount: 0.6866363  
TPH Area:5783.201 TPH Amount: 1.232575



ERH2558 (OWDFMW07A)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0012.RAW

B22021763-006G ;0301PE1 , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-006G ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0012.RAW  
Date & Time Acquired: 3/1/2022 4:53:15 PM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

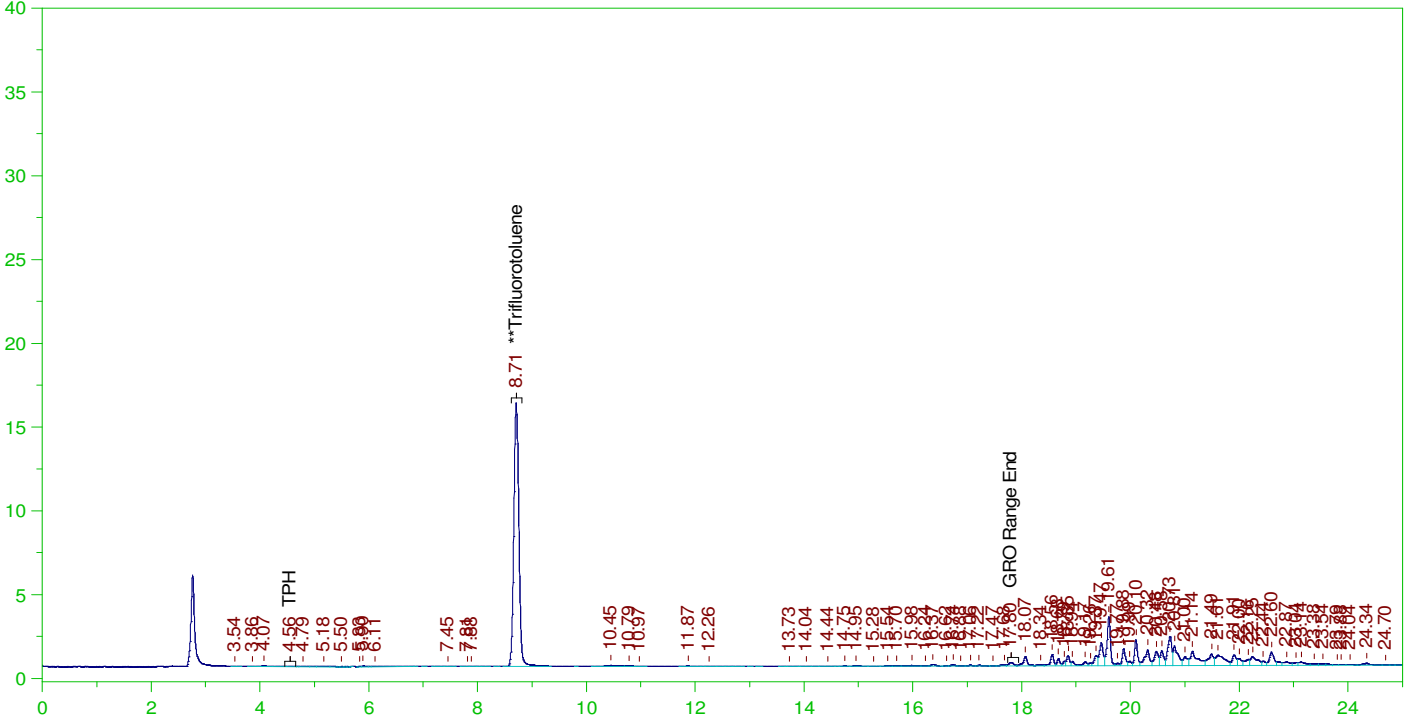
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.712	25.	19.56	78.24

C6 to C10 Area:4569.596 C6 to C10 Amount: 0.9436942  
TPH Area:9000.622 TPH Amount: 1.918305

ERH2563 (RHMW01R)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0013.RAW

B22021763-011G ;0301PE1 , \$HC-8015-GRO-W,



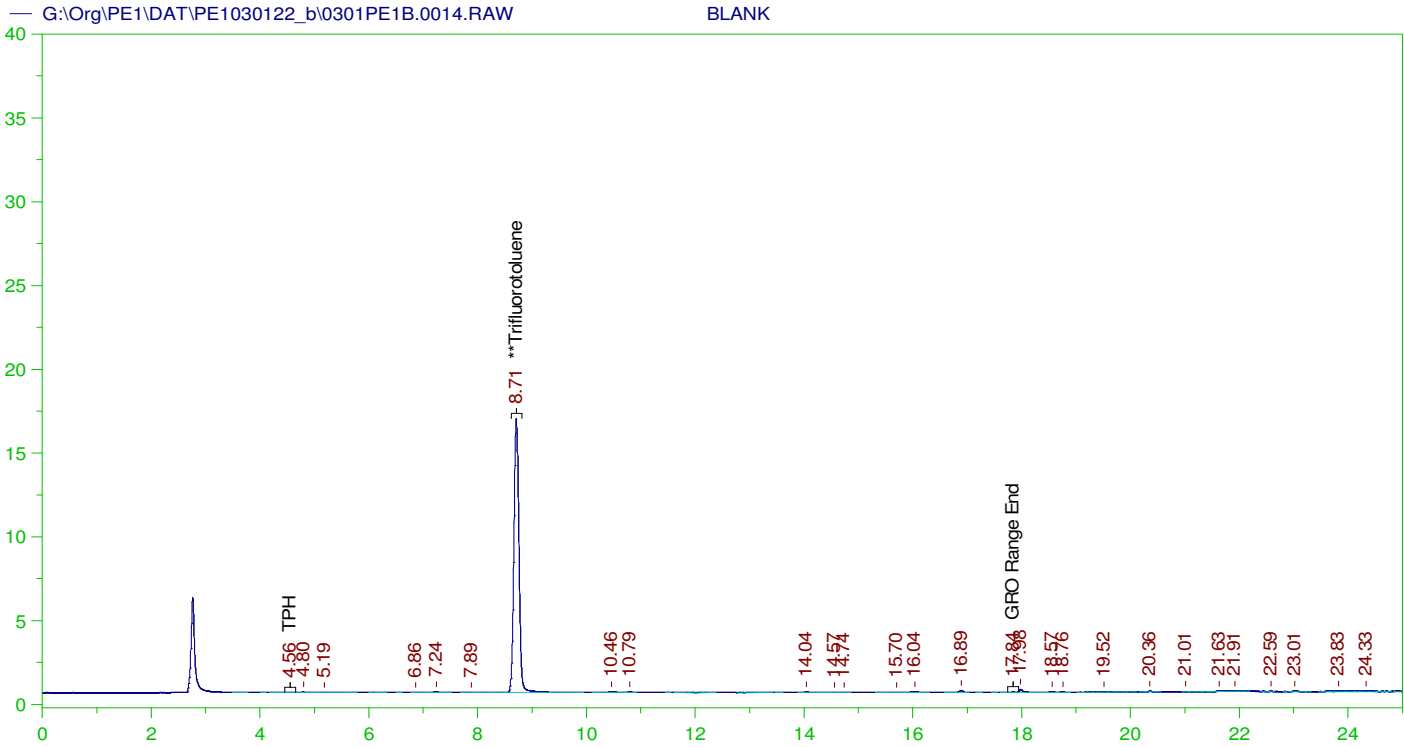
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-011G ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0013.RAW  
Date & Time Acquired: 3/1/2022 5:27:40 PM  
Method File: G:\Org\PE1\Methods\220228G1763-11DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.712	25.	19.692	78.77

C6 to C10 Area:12053.41 C6 to C10 Amount: 2.48922  
TPH Area:146477.6 TPH Amount: 31.21881



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0014.RAW  
 Date & Time Acquired: 3/1/2022 6:02:07 PM  
 Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

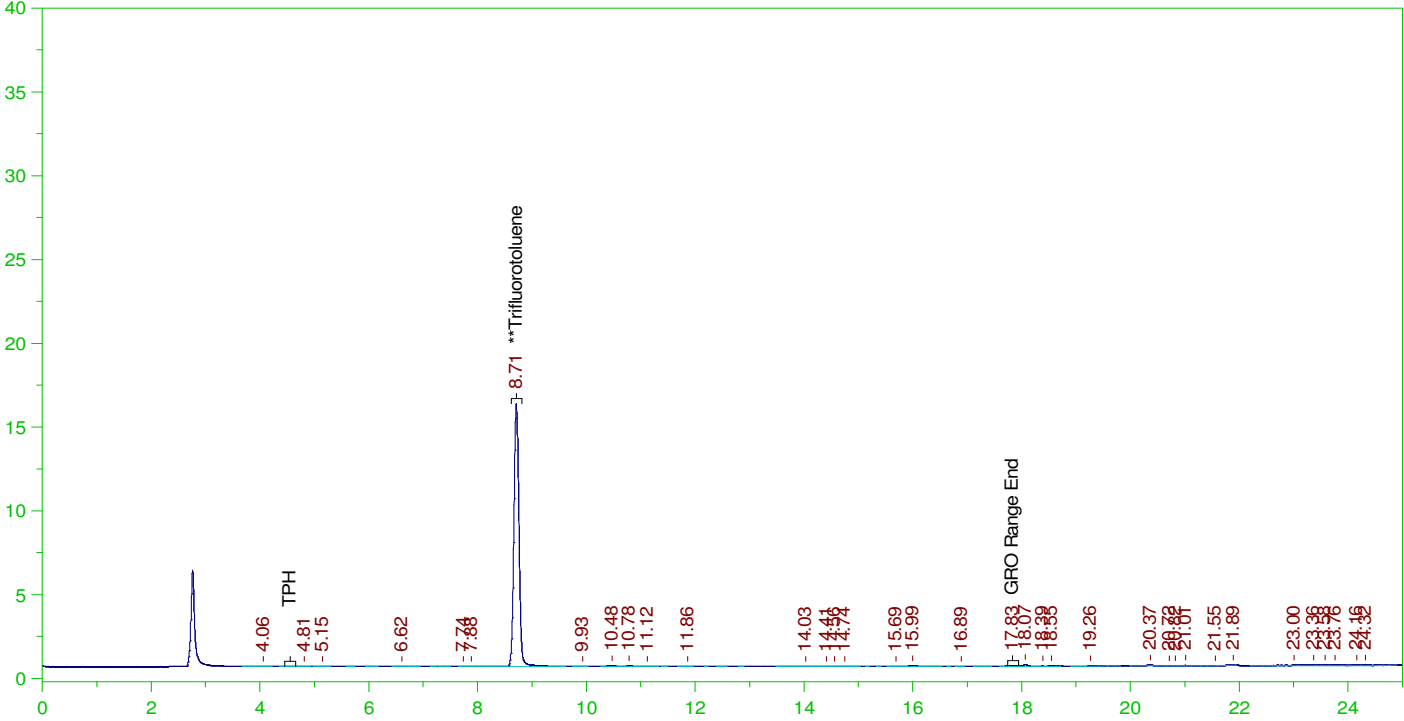
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.713	125.	102.96	82.37

C6 to C10 Area:4224.676 C6 to C10 Amount: 4.362314  
 TPH Area:7088.173 TPH Amount: 7.55352

ERH2560 (OWDFMW08A)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0015.RAW

B22021763-016G ;0301PE1 , \$HC-8015-GRO-W,



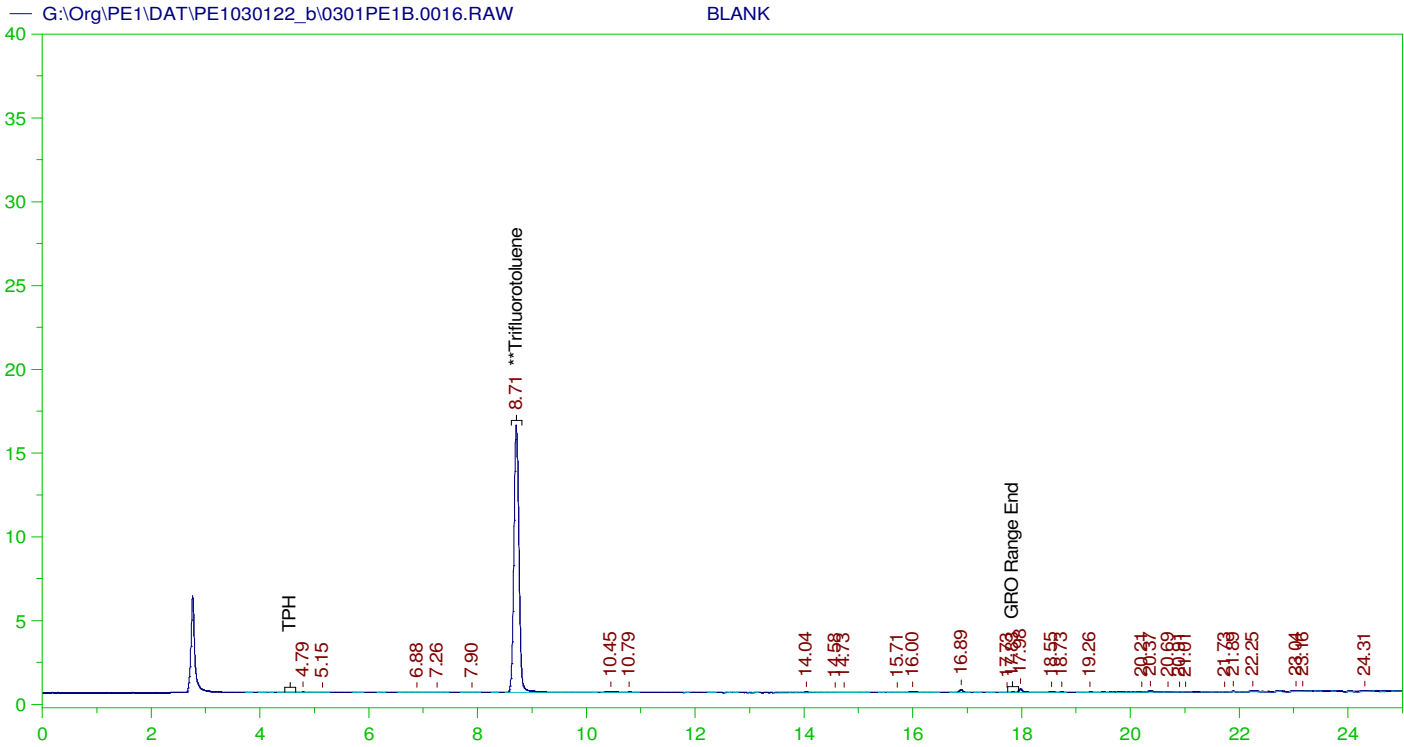
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-016G ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0015.RAW  
Date & Time Acquired: 3/1/2022 6:36:34 PM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	25.	19.743	78.97

C6 to C10 Area:3753.421 C6 to C10 Amount: 0.7751412  
TPH Area:7093.985 TPH Amount: 1.511943



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0016.RAW  
 Date & Time Acquired: 3/1/2022 7:10:51 PM  
 Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

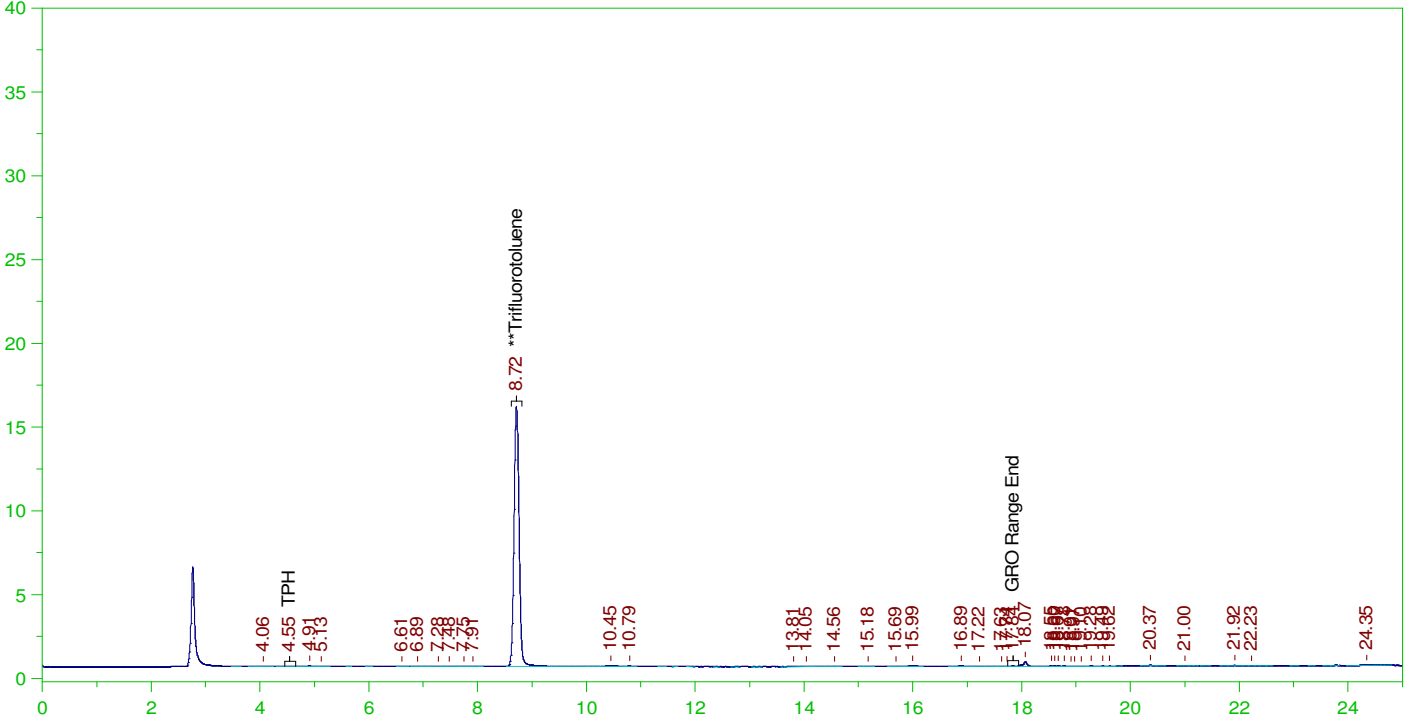
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.713	125.	100.777	80.62

C6 to C10 Area:4500.938 C6 to C10 Amount: 4.647576  
 TPH Area:7697.914 TPH Amount: 8.203291

ERH2561 (OWDFMW08A FD)

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0017.RAW

B22021763-017D ;0301PE1 , \$HC-8015-GRO-W,



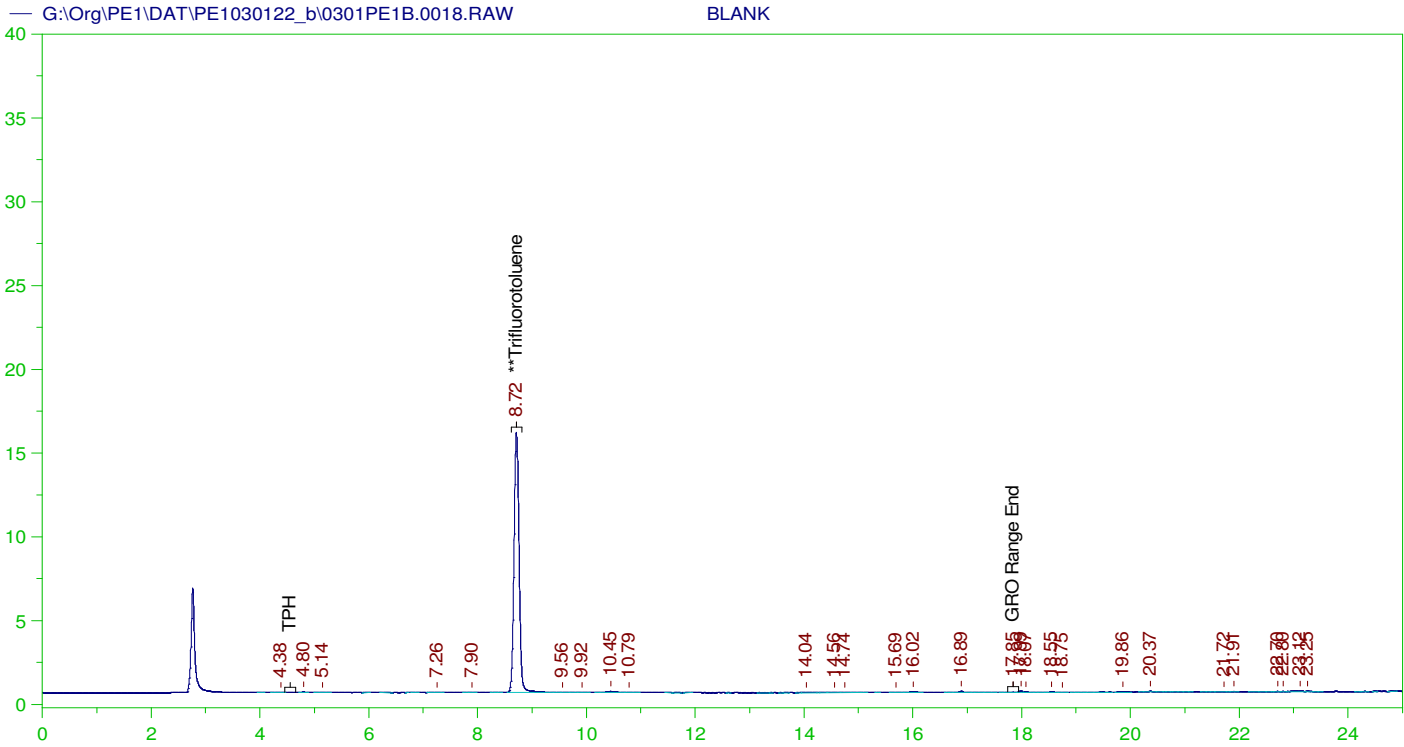
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-017D ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0017.RAW  
Date & Time Acquired: 3/1/2022 7:45:09 PM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	25.	19.588	78.35

C6 to C10 Area:3933.675 C6 to C10 Amount: 0.8123664  
TPH Area:8680.518 TPH Amount: 1.850081



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0018.RAW  
 Date & Time Acquired: 3/1/2022 8:19:27 PM  
 Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

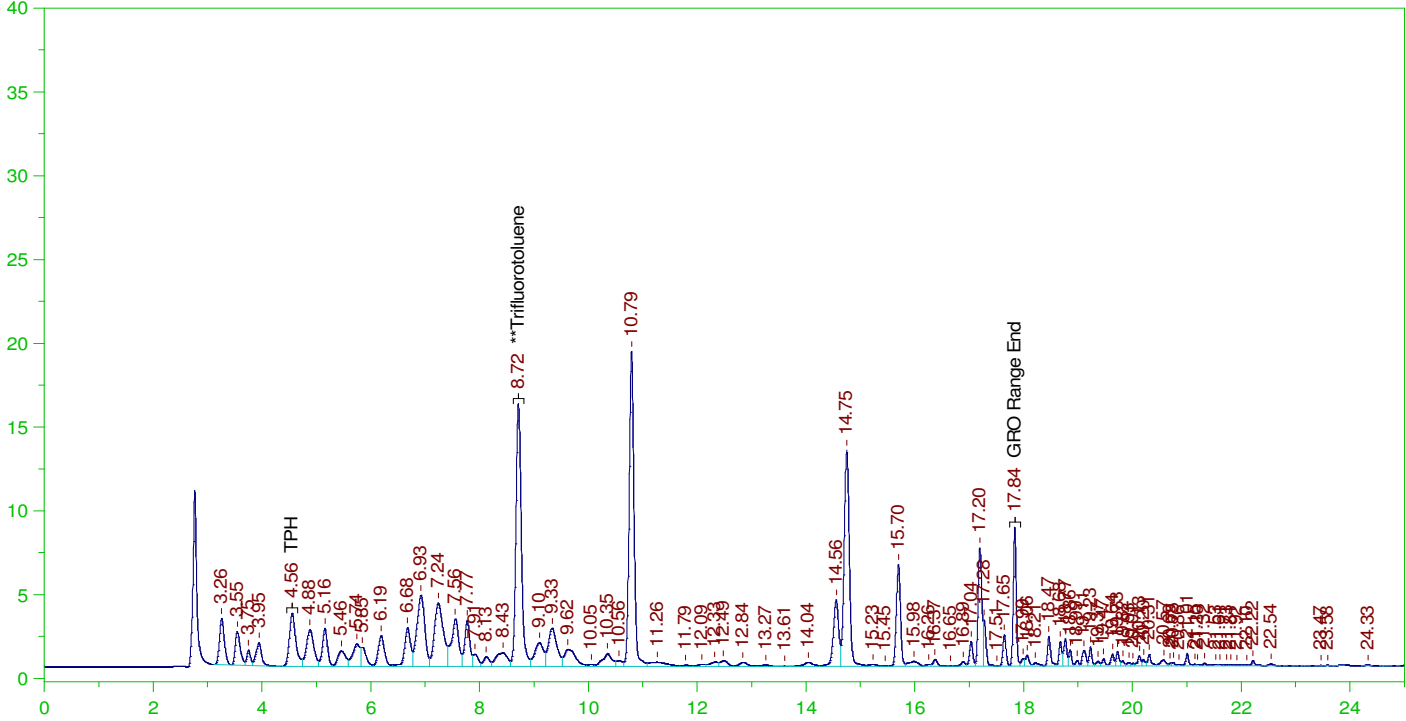
Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.716	125.	97.873	78.3

C6 to C10 Area:3636.166 C6 to C10 Amount: 3.75463  
 TPH Area:6126.29 TPH Amount: 6.528487

G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0019.RAW

B22021763-001GMS, GQC ;0301PE1 , \$HC-8015-GRO-W,



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-001GMS, GQC ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0019.RAW  
Date & Time Acquired: 3/1/2022 8:53:44 PM  
Method File: G:\Org\PE1\Methods\220228G1763-1MSDoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

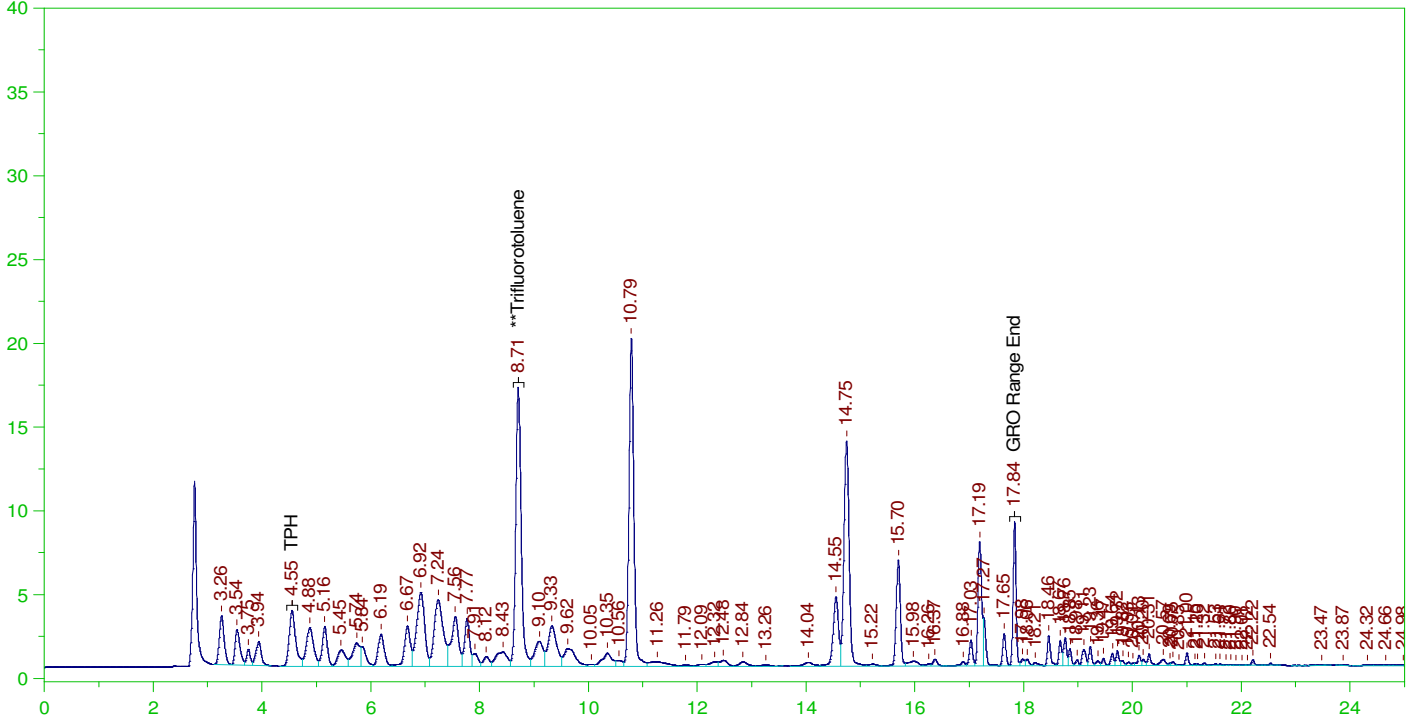
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.715	25.	21.123	84.49

C6 to C10 Area:723963.3 C6 to C10 Amount: 149.5099  
TPH Area:836981.7 TPH Amount: 178.3861



G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0020.RAW

B22021763-001GMSD, GQC ;0301PE1 , \$HC-8015-GRO-W,



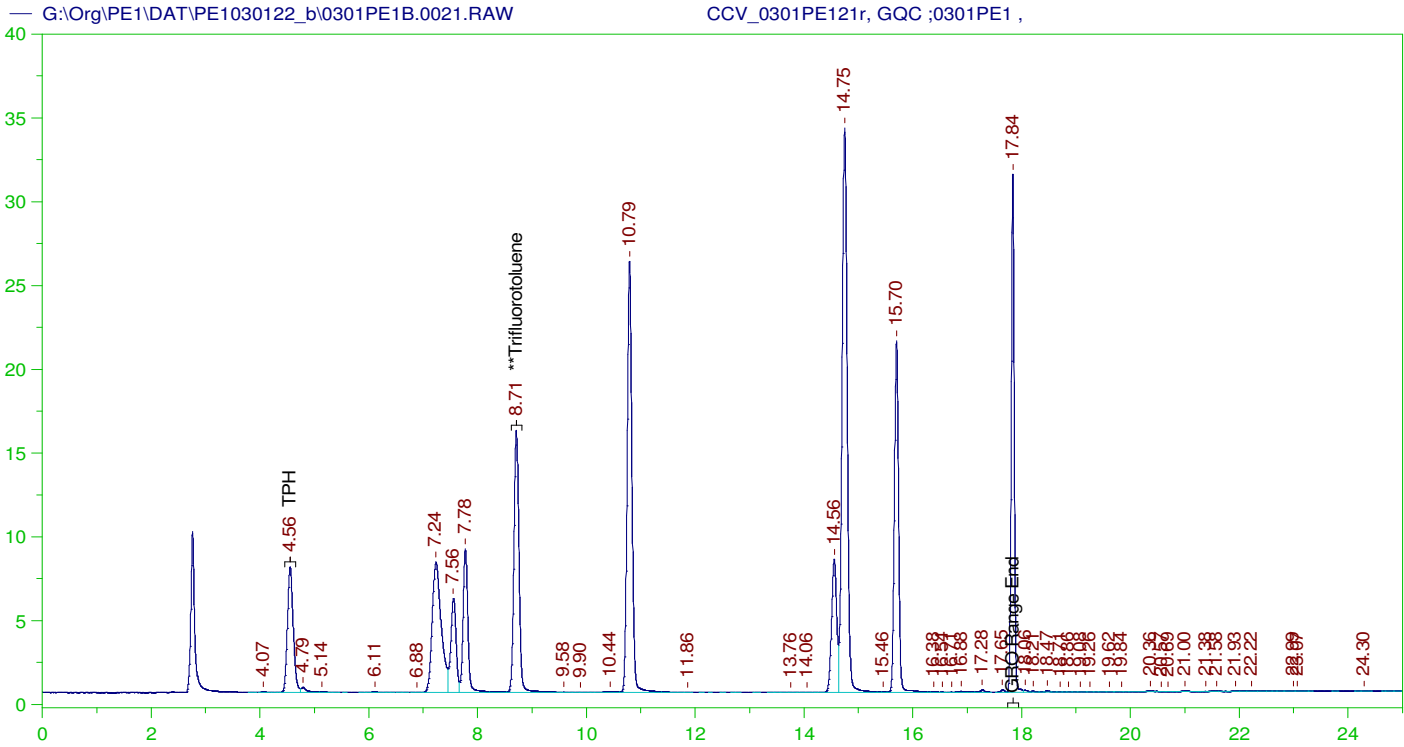
**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: B22021763-001GMSD, GQC ;0301PE1 , \$HC-8015-GRO-W,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0020.RAW  
Date & Time Acquired: 3/1/2022 9:28:04 PM  
Method File: G:\Org\PE1\Methods\220228G1763-1MSDDoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.712	25.	22.353	89.41

C6 to C10 Area:756516 C6 to C10 Amount: 156.2326  
TPH Area:872622.1 TPH Amount: 185.9821



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0301PE121r, GQC ;0301PE1 ,  
Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0021.RAW  
Date & Time Acquired: 3/1/2022 10:02:23 PM  
Method File: G:\Org\PE1\Methods\220228GRO\_DoDB%.MET  
Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
Mean RF for TPH: 938.3934  
Rt range for Gasoline Range Organics: 4.46 to 17.94

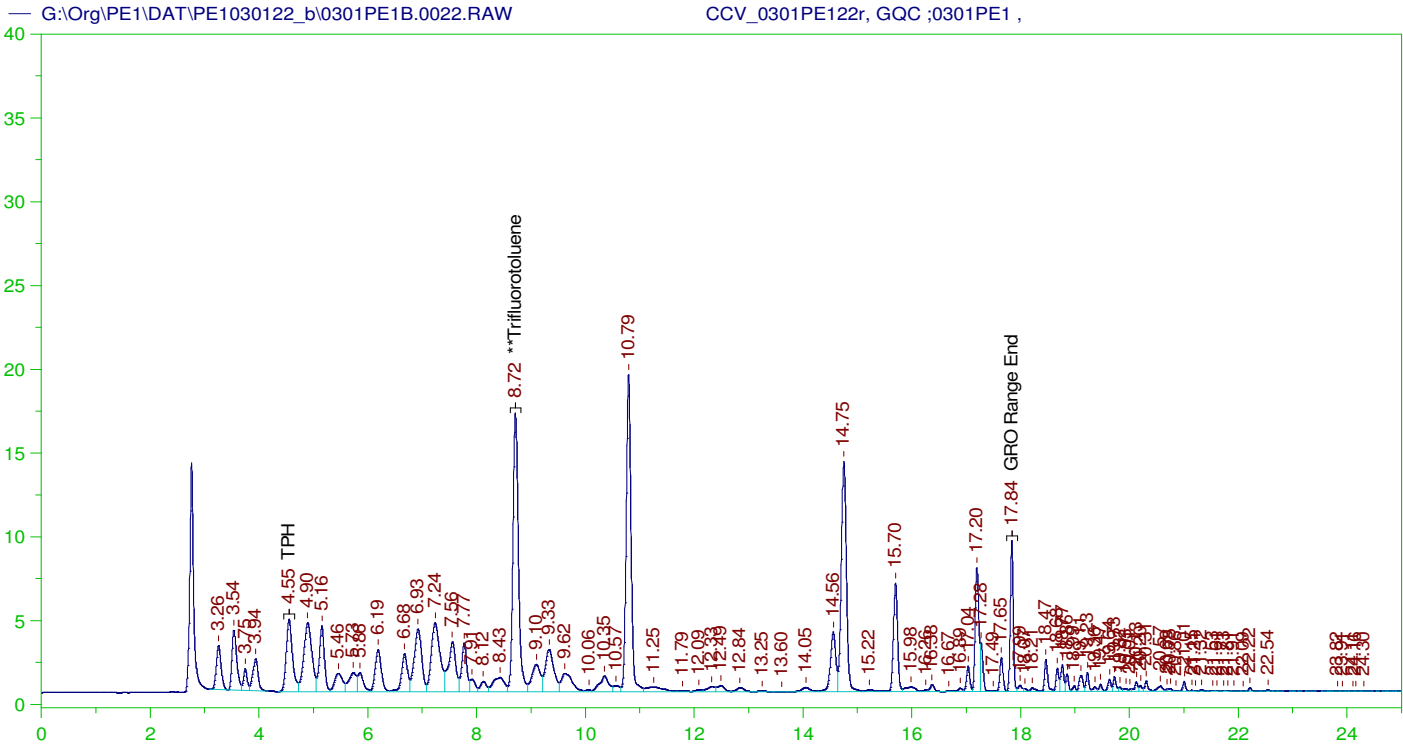
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.714	125.	99.07	79.26

C6 to C10 Area:911159.1 C6 to C10 Amount: 940.8442  
TPH Area:915212.3 TPH Amount: 975.2969

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0021.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	940.84	112.01	85-115
TPH	1000.	975.3	97.53	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.714	125.	99.07	79.26	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: CCV\_0301PE122r, GQC ;0301PE1 ,  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0022.RAW  
 Date & Time Acquired: 3/1/2022 10:36:38 PM  
 Method File: G:\Org\PE1\Methods\220228GCCV0301\_22DoDB%.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

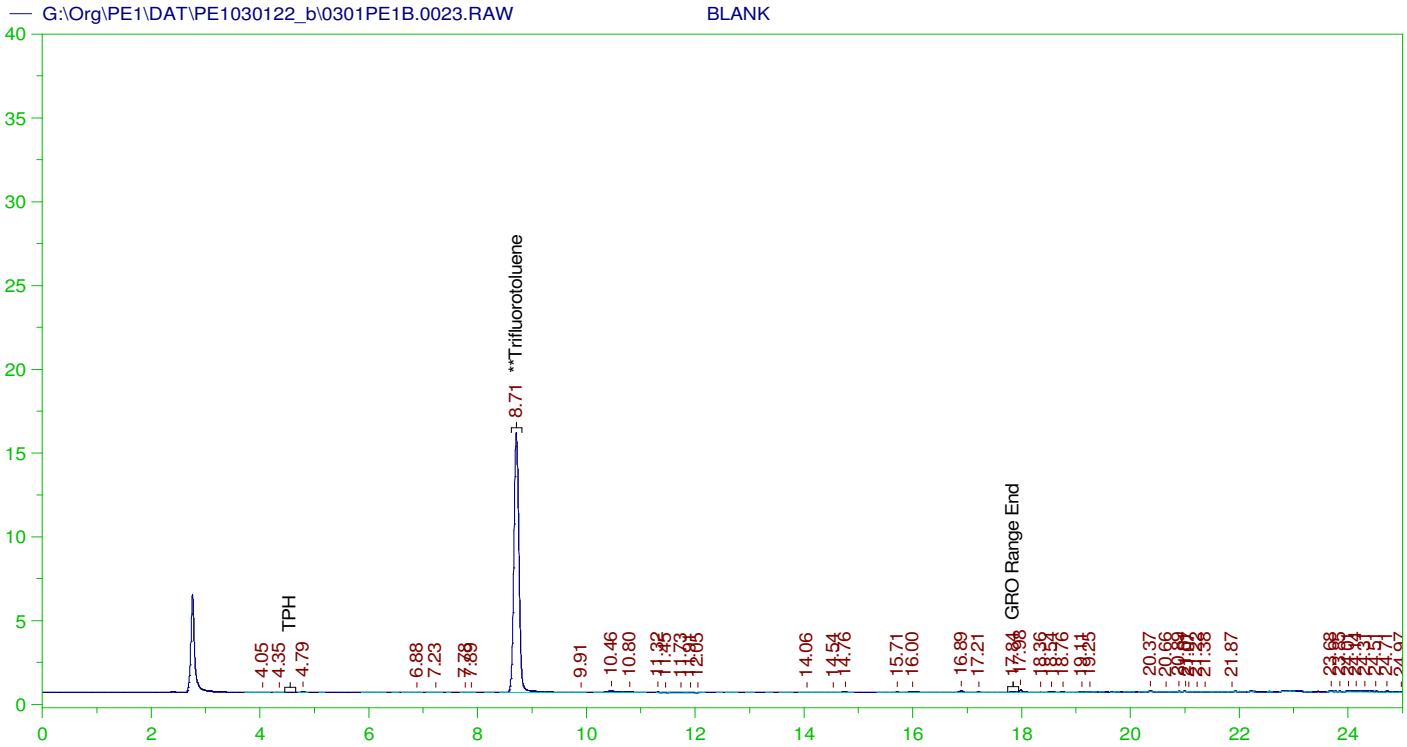
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.716	125.	113.35	90.68	-

C6 to C10 Area: 799227.3 C6 to C10 Amount: 825.2657  
 TPH Area: 921978.1 TPH Amount: 982.507

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0022.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
C6 to C10	840.	825.27	98.25	85-115
TPH	1000.	982.51	98.25	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.716	125.	113.35	90.68	85-115



**GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT**

Sample Name: BLANK  
 Raw File: G:\Org\PE1\DAT\PE1030122\_b\0301PE1B.0023.RAW  
 Date & Time Acquired: 3/1/2022 11:10:55 PM  
 Method File: G:\Org\PE1\Methods\220228GRO\_DoDB.MET  
 Calibration File: G:\Org\PE1\Cals\220228GRO8015CB.CAL  
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 968.4484  
 Mean RF for TPH: 938.3934  
 Rt range for Gasoline Range Organics: 4.46 to 17.94

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.713	125.	97.307	77.85

C6 to C10 Area:5222.504 C6 to C10 Amount: 5.392651  
 TPH Area:10463.17 TPH Amount: 11.15009

Write Sequence	Insert Entries(Have the first cell for entries selecte	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1030122_b\0301PE1.01r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.02r	CCV_0301PE102r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.03r	CCV_0301PE103r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.04r	LCS_0301PE104r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.05r	MBLK_0301PE105r, QC ;0301PE1 ,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.06r	B22021763-001G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.07r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.08r	B22021763-003A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.09r	B22021763-008A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.10r	B22021763-013A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.11r	B22021763-019A ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.12r	B22021763-006G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.13r	B22021763-011G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.14r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.15r	B22021763-016G ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.16r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.17r	B22021763-017D ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.18r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.19r	B22021763-001GMS, GQC ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.20r	B22021763-001GMSD, GQC ;0301PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\22022	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.21r	CCV_0301PE121r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1030122_b\0301PE1.22r	CCV_0301PE122r, GQC ;0301PE1 ,	G:\Org\PE1\Methods\22022	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1030122_b\0301PE1.23r	BLANK	G:\Org\PE1\Methods\22022	1	1	1	1	0	None

*Josie M Pickard*  
 Chemist  
 Page 53 of 76

Digitally signed by  
 Josie Pickard  
 Date: 2022.03.02 07:45:42 -07:00



# Analytical RunID PE 1\_220228A 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 PE 1\_220228A 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 PE 1\_220228A 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 PE 1\_220228A Standards Traceability Report

**Standard ID:** GASL220228

**Standard Name:** Low Gasoline Std.

**Prep Date:** 2/28/2022

**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 - EB679	<u>14746</u>	0.9	mL	6/7/2023

Stock Source	Base Units	Amount Added
GAS220104	ug/mL	0.1 mL



## Analytical RunID PE 1\_220228A 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	<u>14373</u>	5	mL	4/2/2030

Stock Source	Base Units	Amount Added
GQC211012	ug/mL	



# Analytical RunID PE 1\_220228A 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 PE 1\_220228A Standards Traceability Report

**Standard ID:** TFT220228  
**Standard Name:** TFT (1.05uL)  
**Prep Date:** 2/28/2022  
**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
TFTS220208	ug/mL	0.1 mL



# Analytical RunID PE 1\_220228A Standards Traceability Report

**Standard ID:** TFTL220228

**Standard Name:** TFTL

**Prep Date:** 2/28/2022

**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 - EB679	<u>14746</u>	0.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFTM220228	ug/mL	0.1 mL



# Analytical RunID PE 1\_220228A Standards Traceability Report

**Standard ID:** TFTM220228

**Standard Name:** TFTM

**Prep Date:** 2/28/2022

**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 - EB679	<u>14746</u>	0.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFT220228	ug/mL	0.1 mL



# Analytical RunID PE 1\_220228A Standards Traceability Report

**Standard ID:** TFTS220208  
**Standard Name:** TFT Stock  
**Prep Date:** 2/8/2022  
**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. 10x1mL ampules received

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
a,a,a-Trifluorotoluene	14857	10	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFTS220208	ug/mL	10 mL

125 Market Street  
New Haven, CT 06513  
USA



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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

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

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For use in routine laboratory analysis.

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

OR-09090-001  
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 #: 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.


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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

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 #: 14857**

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

a,a,a-Trifluorotoluene

**Expires: 10/10/2029**

Rec'd: 2/8/2022

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  $\pm 2.4\%$ . 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 PE 1\_220301A 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 PE 1\_220301A 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 PE 1\_220301A 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 PE 1\_220301A 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	<u>14373</u>	5	mL	4/2/2030

Stock Source	Base Units	Amount Added
GQC211012	ug/mL	



# Analytical RunID PE 1\_220301A 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 PE 1\_220301A Standards Traceability Report

**Standard ID:** TFT220228  
**Standard Name:** TFT (1.05uL)  
**Prep Date:** 2/28/2022  
**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
TFTS220208	ug/mL	0.1 mL





# Analytical RunID PE 1\_220301A Standards Traceability Report

**Standard ID:** TFTS220208

**Standard Name:** TFT Stock

**Prep Date:** 2/8/2022

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

**Department:** GCVOA

**Vendor:** Accustandard

**Lot Number:** 219091095

**Balance ID:**

**Comments:** 20mg/ml in Meoh Date prepared is date received. 10x1mL ampules 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>14857</u>	10	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFTS220208	ug/mL	10 mL

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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

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

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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

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OR-09090-001  
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 #: 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.

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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

# 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 #: 14857**

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

a,a,a-Trifluorotoluene

**Expires: 10/10/2029**

Rec'd: 2/8/2022

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  $\pm 2.4\%$ . 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.

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