

Energy Laboratories Inc

ANALYTICAL RUN Summary

16-Sep-21

Run ID PE 1_210914A

Run Start Date: 9/14/2021
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
GASL210914	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
TFT210913	TFT (1.05uL)						9/10/2029
TFTL210914	TFTL						9/10/2029
TFTM210914	TFTM						9/10/2029

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14684950	CCV_0914PE10	HC-8015-GRO-	CCV		9/14/2021 11:43:	1	R367055			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	216.6806	216.6806		168	0	0	2.32	20	0	129%	80	120	0%	S
Total Purgeable Hydrocarbons	A	ug/L	222.9057	222.9057		200	0	0	3.56	20	0	111%	80	120	0%	
Trifluorotoluene	S	ug/L	21.37481	21.37481		25	0	0	0.0743	1	0	85%	80	120	0%	
GRO as Gasoline	X	ug/L	216.6806	216.6806		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					
14684951	CCV_0914PE10	HC-8015-GRO-	CCV		9/14/2021 2:04:4	1	R367055			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	16.7072	16.7072		16.8	0	0	2.32	20	0	99%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	19.7293	19.7293		20	0	0	3.56	20	0	99%	80	120	0%	
Trifluorotoluene	S	ug/L	1.13369	1.13369		1	0	0	0.0743	1	0	113%	80	120	0%	
GRO as Gasoline	X	ug/L	16.7072	16.7072		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					
14684952	CCV_0914PE10	HC-8015-GRO-	CCV		9/14/2021 2:40:0	1	R367055		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	84.73992	84.73992		84	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	100.9064	100.9064		100	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	5.522036	5.522036		5	0	0	0.0743	1	0	110%	80	120	0%	
GRO as Gasoline	X	ug/L	84.73992	84.73992		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					
14684953	CCV_0914PE10	HC-8015-GRO-	CCV		9/14/2021 3:15:2	1	R367055		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	170.2375	170.2375		168	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.5104	202.5104		200	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	23.25191	23.25191		25	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	170.2375	170.2375		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					
14684954	CCV_0914PE10	HC-8015-GRO-	CCV		9/14/2021 3:50:4	1	R367055		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	825.4619	825.4619		840	0	0	2.32	20	0	98%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	985.6138	985.6138		1000	0	0	3.56	20	0	99%	80	120	0%	
Trifluorotoluene	S	ug/L	93.25426	93.25426		100	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	825.4619	825.4619		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					
14684955	CCV_0914PE11	HC-8015-GRO-	CCV		9/14/2021 4:25:5	1	R367055		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	1681.182	1681.182		1680	0	0	2.32	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	2012.61	2012.61		2000	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	179.8396	179.8396		200	0	0	0.0743	1	0	90%	80	120	0%	
GRO as Gasoline	X	ug/L	1681.182	1681.182		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					
14684956	LCS_0914PE11	HC-8015-GRO-	LCS		9/14/2021 5:36:3	1	R367055		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	160.5952	160.5952		170	0	0	2.32	20	0	94%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	190.6646	190.6646		200	0	0	3.56	20	0	95%	80	120	0%	
Trifluorotoluene	S	ug/L	22.85101	22.85101		25	0	0	0.0743	1	0	91%	80	120	0%	
GRO as Gasoline	X	ug/L	160.5952	160.5952		170	0	0	2.32	20	0	94%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14684957	CCV_0914PE11	HC-8015-GRO-	CCV		9/14/2021 6:12:0	1	R367055		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	172.7759	172.7759		168	0	0	2.32	20	0	103%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	205.3453	205.3453		200	0	0	3.56	20	0	103%	80	120	0%	
Trifluorotoluene	S	ug/L	23.98433	23.98433		25	0	0	0.0743	1	0	96%	80	120	0%	
GRO as Gasoline	X	ug/L	172.7759	172.7759		0	0	0	2.32	20	0	0%	0	0	0%	

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\PE1\DAT\PE1091421_b\0914PE1.01r	CCV_0914PE101r, GQC ;0914PE1 , AK Marker	G:\Org\PE1\Methods\21070	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.02r	CCV_0914PE102r, GQC ;0914PE1 , 8015 Marker	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.03r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.04r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.05r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.06r	CCV_0914PE106r, GQC ;0914PE1 , G1	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.07r	CCV_0914PE107r, GQC ;0914PE1 , G2	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.08r	CCV_0914PE108r, GQC ;0914PE1 , G3	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.09r	CCV_0914PE109r, GQC ;0914PE1 , G4	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.10r	CCV_0914PE110r, GQC ;0914PE1 , G5	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.11r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.12r	LCS_0914PE112r, GQC ;0914PE1 , ICV	G:\Org\PE1\Methods\21091	5	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.13r	CCV_0914PE113r, GQC ;0914PE1 , CCV	G:\Org\PE1\Methods\21091	1	1	1	1	0
G:\Org\PE1\DAT\PE1091421_b\0914PE1.14r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0

File Name: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Version: 4

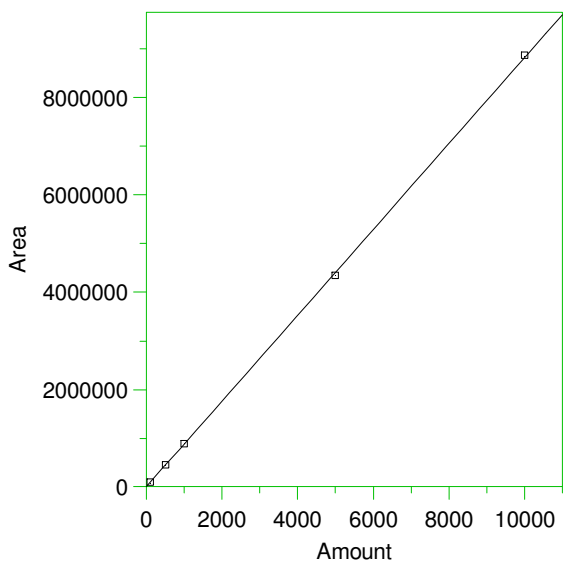
Creator: jmp
 Description: 8015 GRO Composite Gasoline Std 9/14/21
 Reason for change:

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.

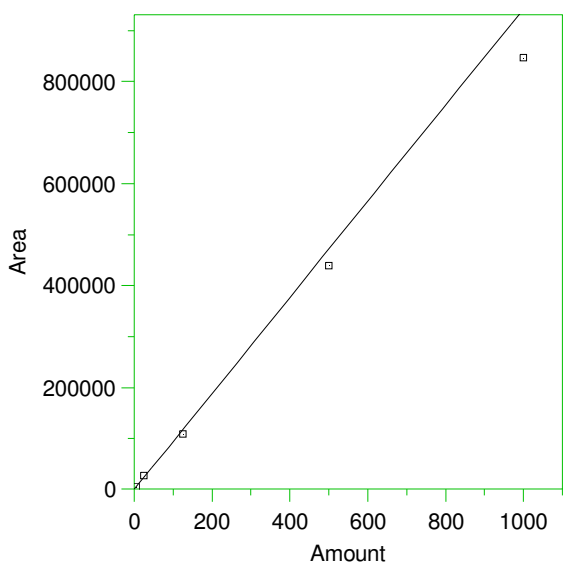
1 TPH



Expected retention time: 4.54 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 = 881.4131 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9998698
 Average error: 1.117%
 Average CF: 881.4131
 RSD: 1.294%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	86948.3	869.483	-1.354	Manual	9/14/2021 4:29:35 PM
2	500	444701.2	889.4024	0.906	Manual	9/14/2021 4:29:51 PM
3	1000	892476.7	892.4767	1.255	Manual	9/14/2021 4:30:13 PM
4	5000	4343665	868.733	-1.439	Manual	9/14/2021 4:30:35 PM
5	10000	8869705	886.9705	0.631	Manual	9/14/2021 4:30:50 PM

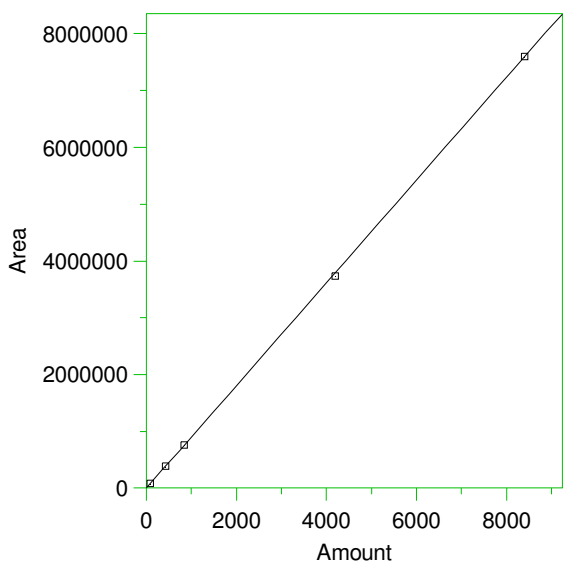
2 **Trifluorotoluene



Expected retention time: 8.69 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
 $Y = 942.5342 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9804168
 Average error: 9.527%
 Average CF: 942.5342
 RSD: 10.999%

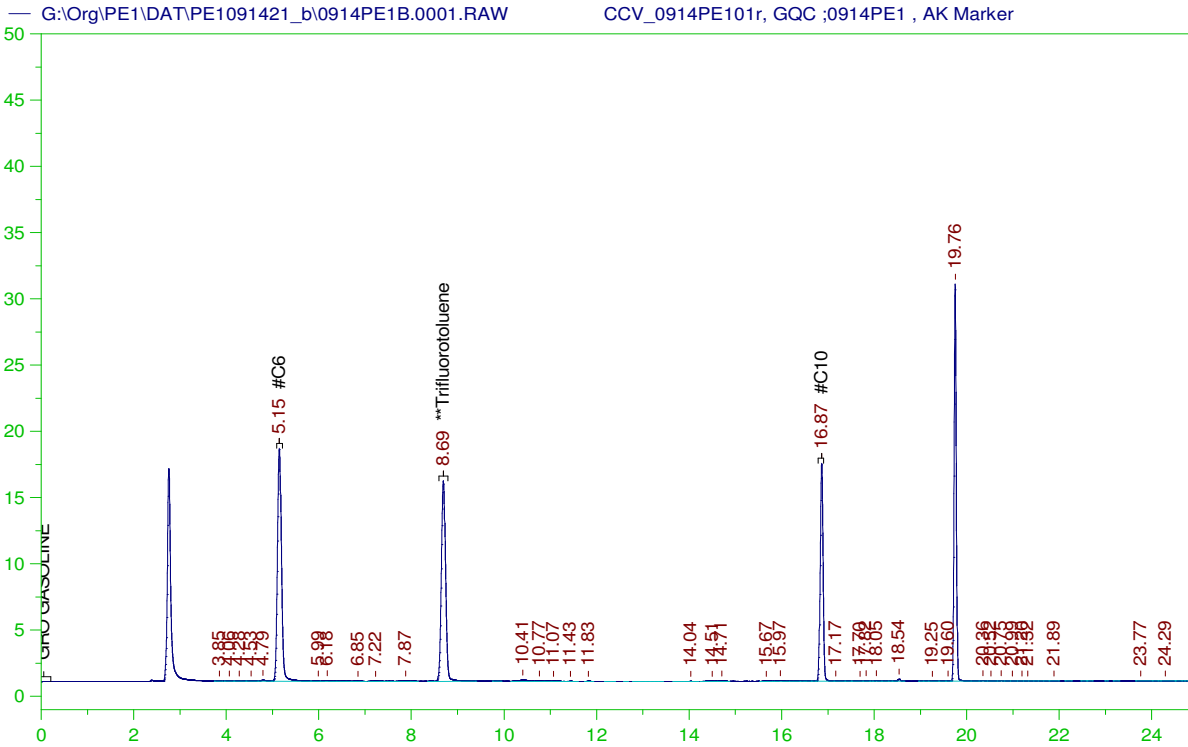
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5	5343	1068.6	13.375	Manual	9/14/2021 4:08:19 PM
2	25	26024	1040.96	10.443	Manual	9/14/2021 4:12:47 PM
3	125	109579	876.632	-6.992	Manual	9/14/2021 4:13:53 PM
4	500	439477	878.954	-6.746	Manual	9/14/2021 4:15:27 PM
5	1000	847525	847.525	-10.080	Manual	9/14/2021 4:28:14 PM

3 GRO Range End



Expected retention time: 17.82 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
 $Y = 904.4937 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9998909
 Average error: 0.913%
 Average CF: 904.4937
 RSD: 1.210%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	84	75557.78	899.4974	-0.552	Manual	9/14/2021 4:29:41 PM
2	420	383233.6	912.4609	0.881	Manual	9/14/2021 4:30:03 PM
3	840	769893.8	916.5403	1.332	Manual	9/14/2021 4:30:20 PM
4	4200	3733126	888.8395	-1.731	Manual	9/14/2021 4:30:41 PM
5	8400	7603094	905.1302	0.070	Manual	9/14/2021 4:30:56 PM



ALASKA GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE101r, GQC ;0914PE1 , AK Marker
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0001.RAW
 Date & Time Acquired: 9/14/2021 11:08:40 AM
 Method File: G:\Org\PE1\Methods\210708AKB.MET
 Calibration File: G:\Org\PE1\Cals\210621AK101B.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO as Gasoline: 568.9279
 Rt range for Gasoline Range Organics: 5.09 to 16.79

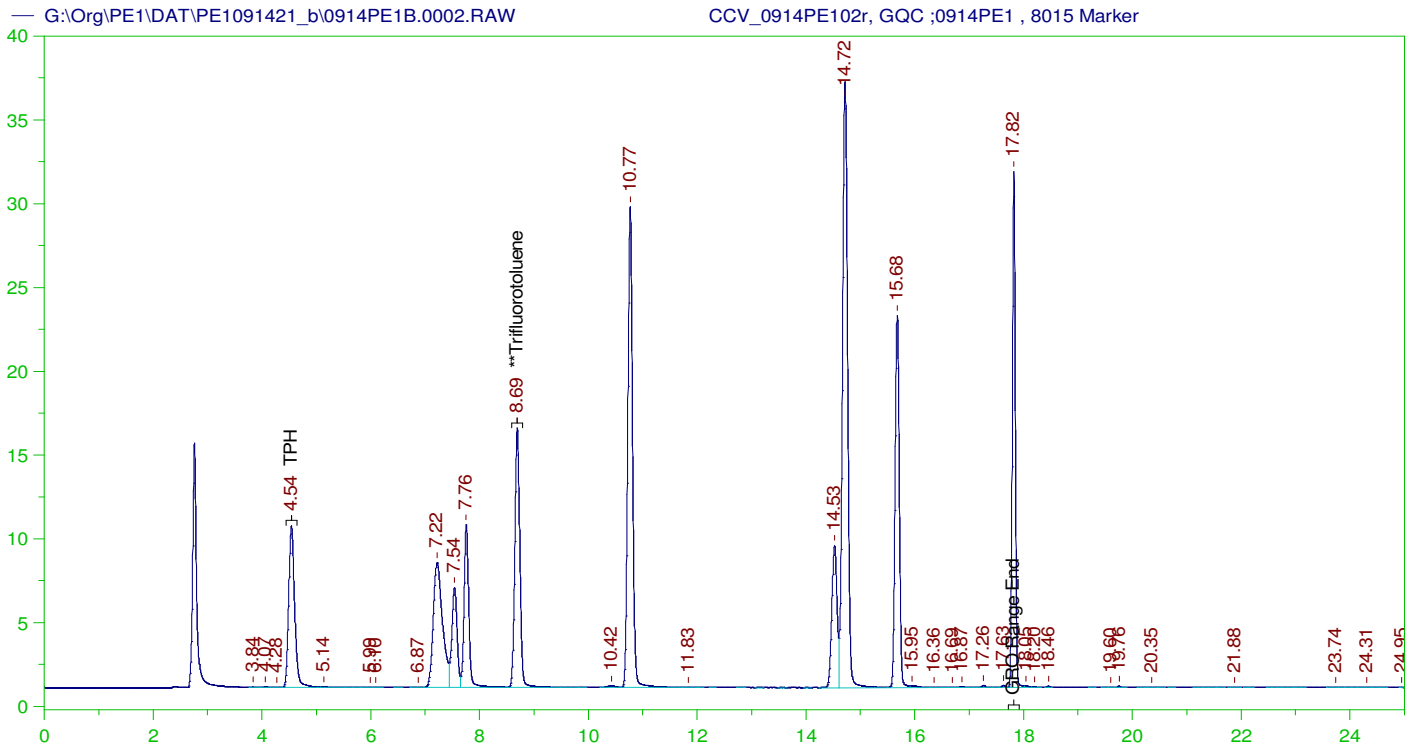
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.692	125.	104.978	83.98	-

GRO Area:112430.2 GRO Amount: 197.6177

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0001.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
*GRO GASOLINE	1000.	197.618	19.76	75-125

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.692	125.	104.978	83.98	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE102r, GQC ;0914PE1 , 8015 Marker
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0002.RAW
 Date & Time Acquired: 9/14/2021 11:43:49 AM
 Method File: G:\Org\PE1\Methods\210914GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

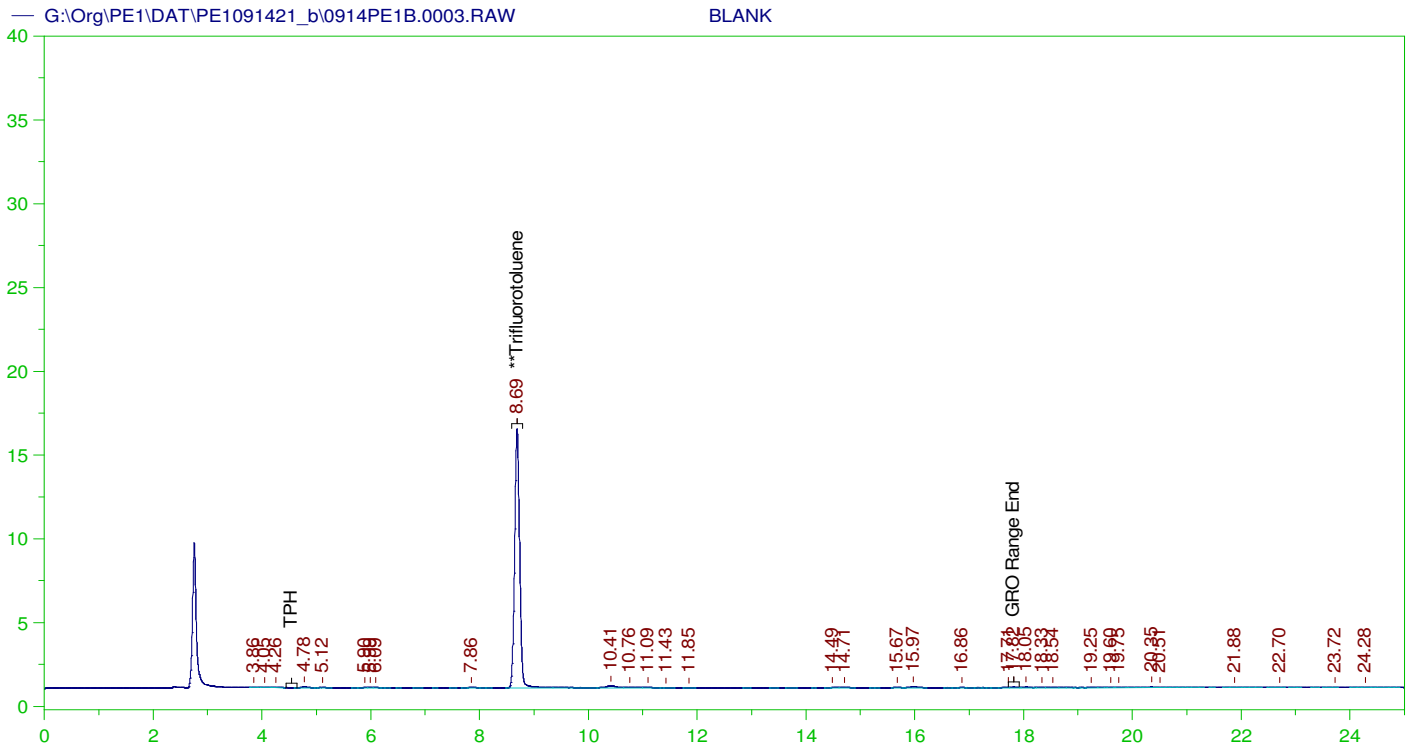
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	125.	106.874	85.5

GRO Area:979931.1 GRO Amount: 1083.403
 TPH Area:982359.9 TPH Amount: 1114.528

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0002.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1083.4	128.98	85-115
TPH	1000.	1114.53	111.45	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.694	125.	106.874	85.5	85-115



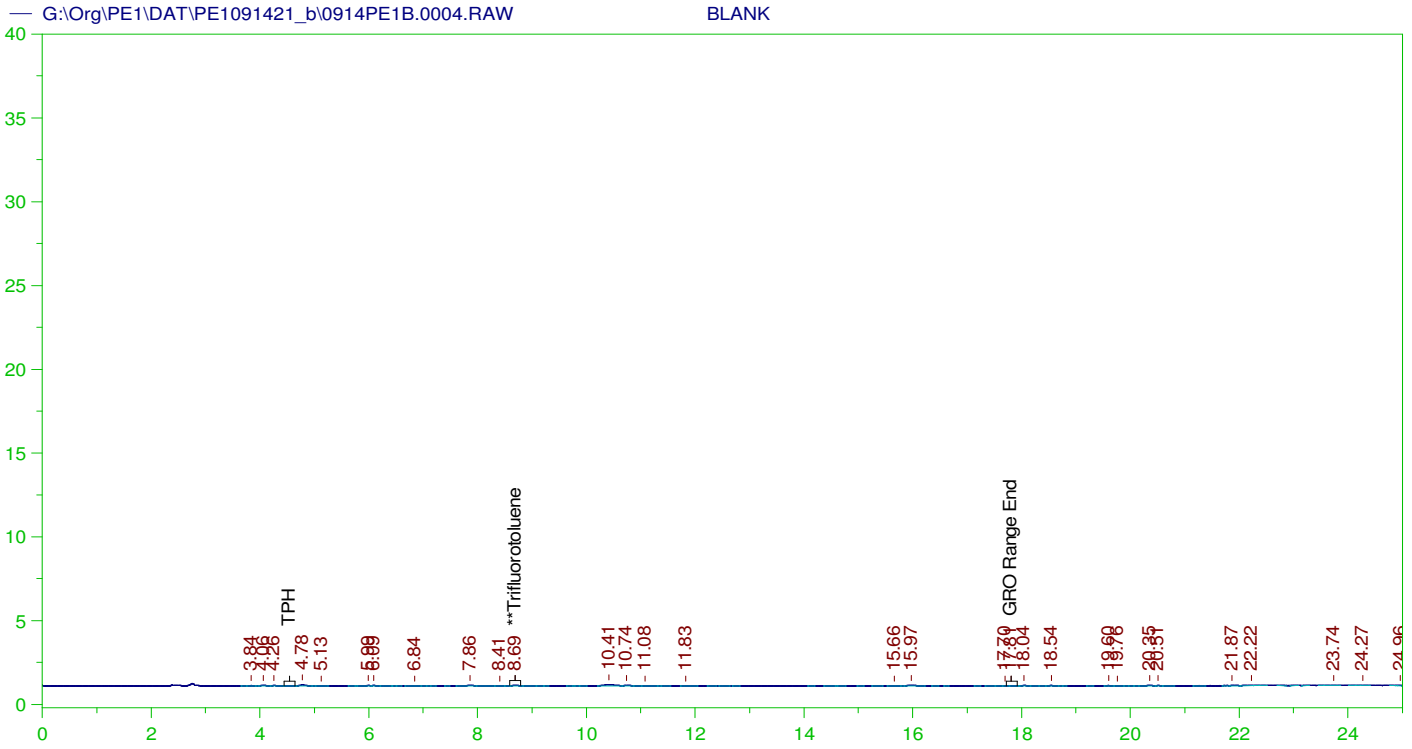
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0003.RAW
 Date & Time Acquired: 9/14/2021 12:19:01 PM
 Method File: G:\Org\PE1\Methods\210914GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.69	125.	106.344	85.08

GRO Area:5078.212 GRO Amount: 5.614425
 TPH Area:7267.624 TPH Amount: 8.245422



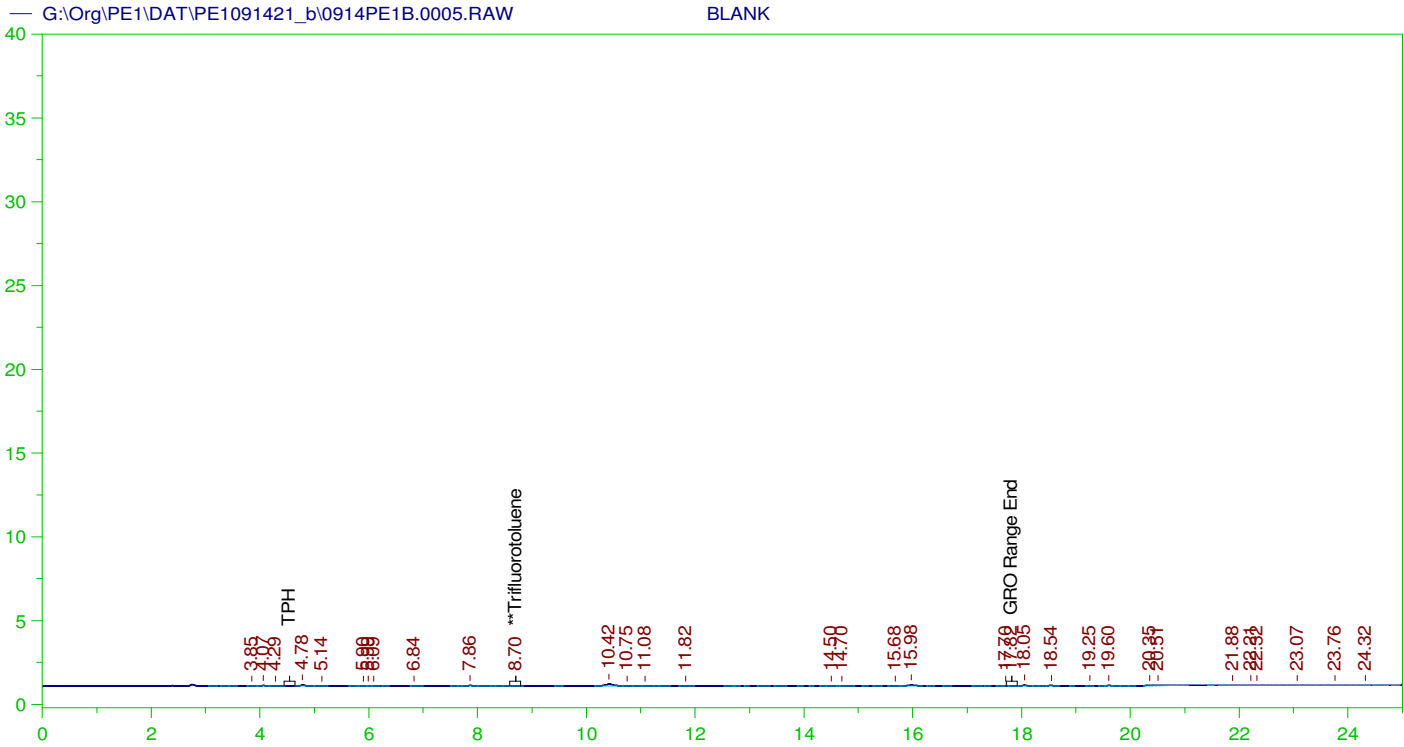
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0004.RAW
Date & Time Acquired: 9/14/2021 12:54:14 PM
Method File: G:\Org\PE1\Methods\210914GROB.MET
Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
Mean RF for TPH: 881.4131
Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.688	125.	.212	.17

GRO Area:4128.771 GRO Amount: 4.564731
TPH Area:6225.065 TPH Amount: 7.062596



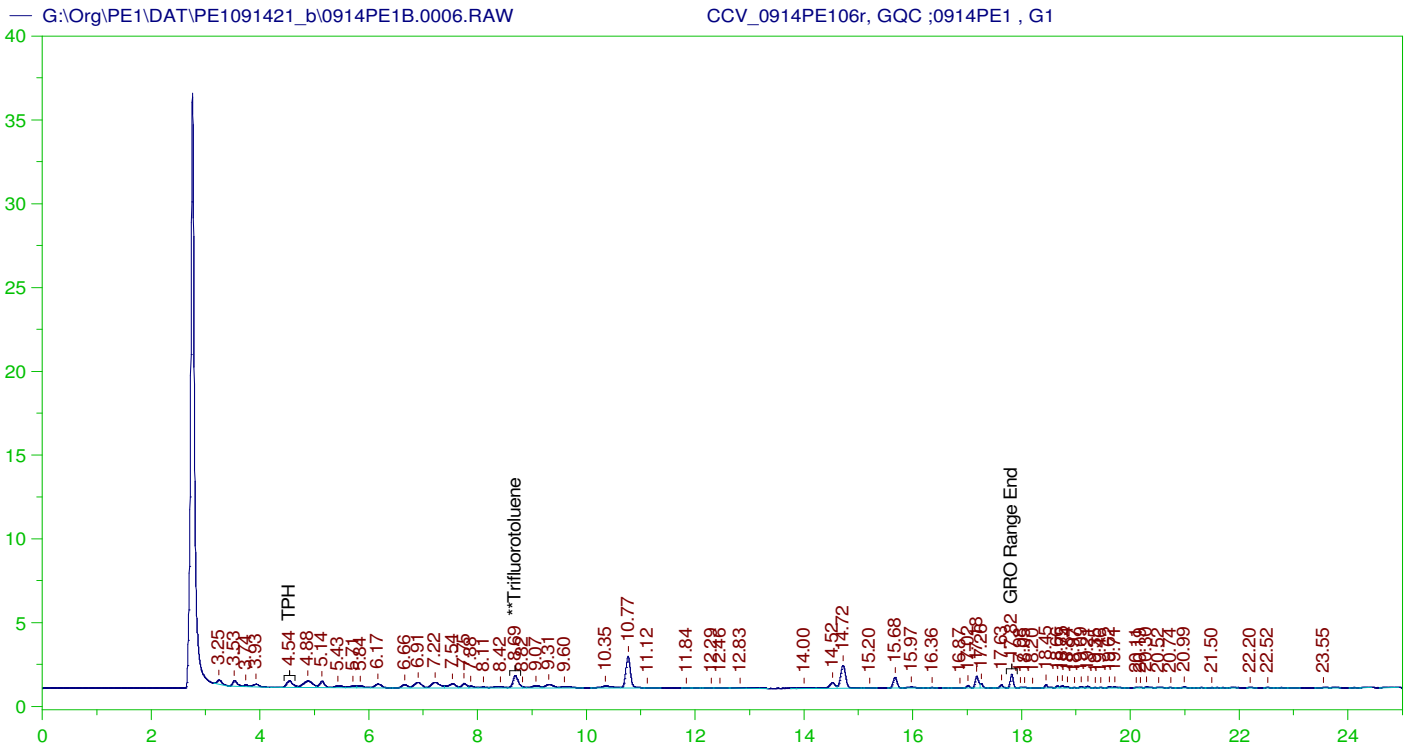
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0005.RAW
 Date & Time Acquired: 9/14/2021 1:29:30 PM
 Method File: G:\Org\PE1\Methods\210914GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.703	125.	.126	.1

GRO Area:4284.377 GRO Amount: 4.736768
 TPH Area:6416.321 TPH Amount: 7.279585



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE106r, GQC ;0914PE1 , G1
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0006.RAW
 Date & Time Acquired: 9/14/2021 2:04:45 PM
 Method File: G:\Org\PE1\Methods\210914GROG1B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

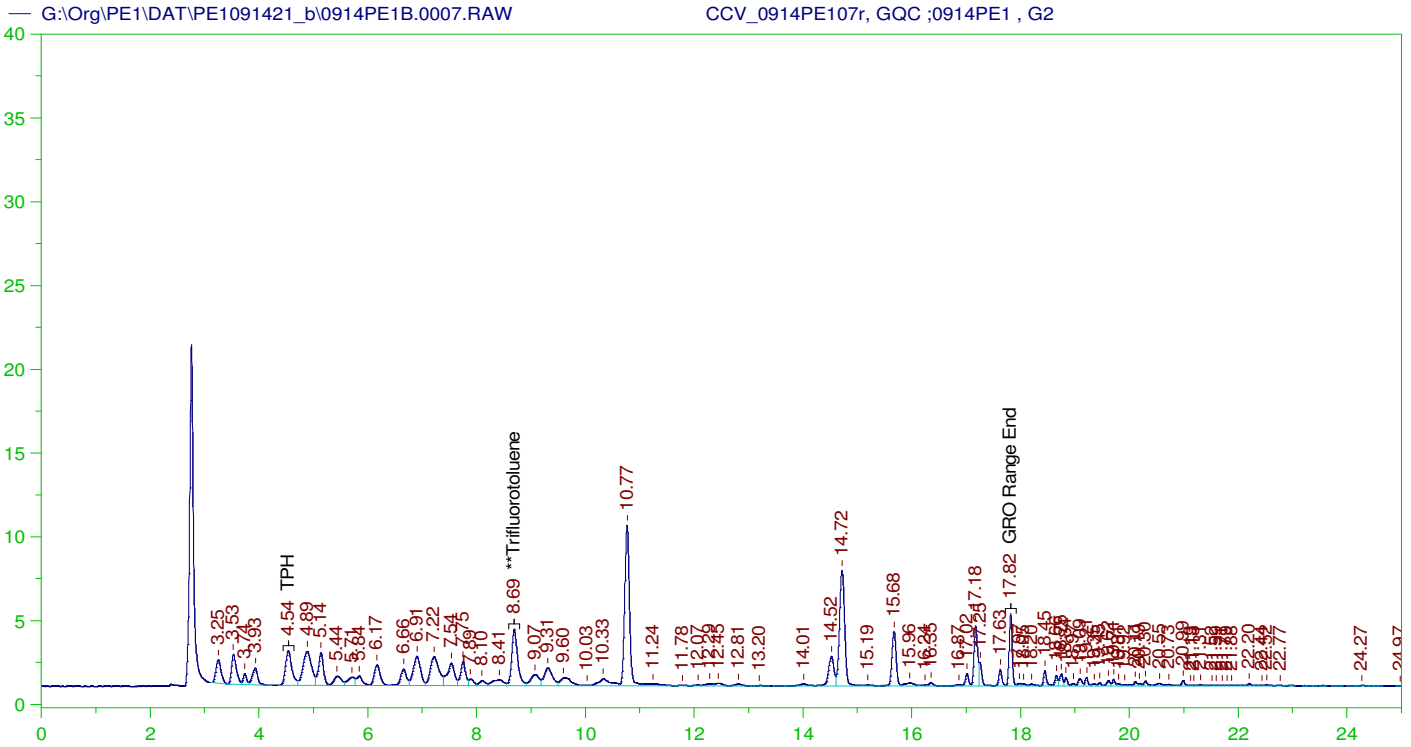
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	125.	5.668	4.53

GRO Area: 75557.78 GRO Amount: 83.536
 TPH Area: 86948.3 TPH Amount: 98.64648

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0006.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	83.54	9.94	85-115
TPH	1000.	98.65	9.86	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.694	125.	5.668	4.53	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE107r, GQC ;0914PE1 , G2
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0007.RAW
 Date & Time Acquired: 9/14/2021 2:40:05 PM
 Method File: G:\Org\PE1\Methods\210914GROG2B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.695	125.	27.61	22.09	-

GRO Area:383233.6 GRO Amount: 423.6996
 TPH Area:444701.2 TPH Amount: 504.5321

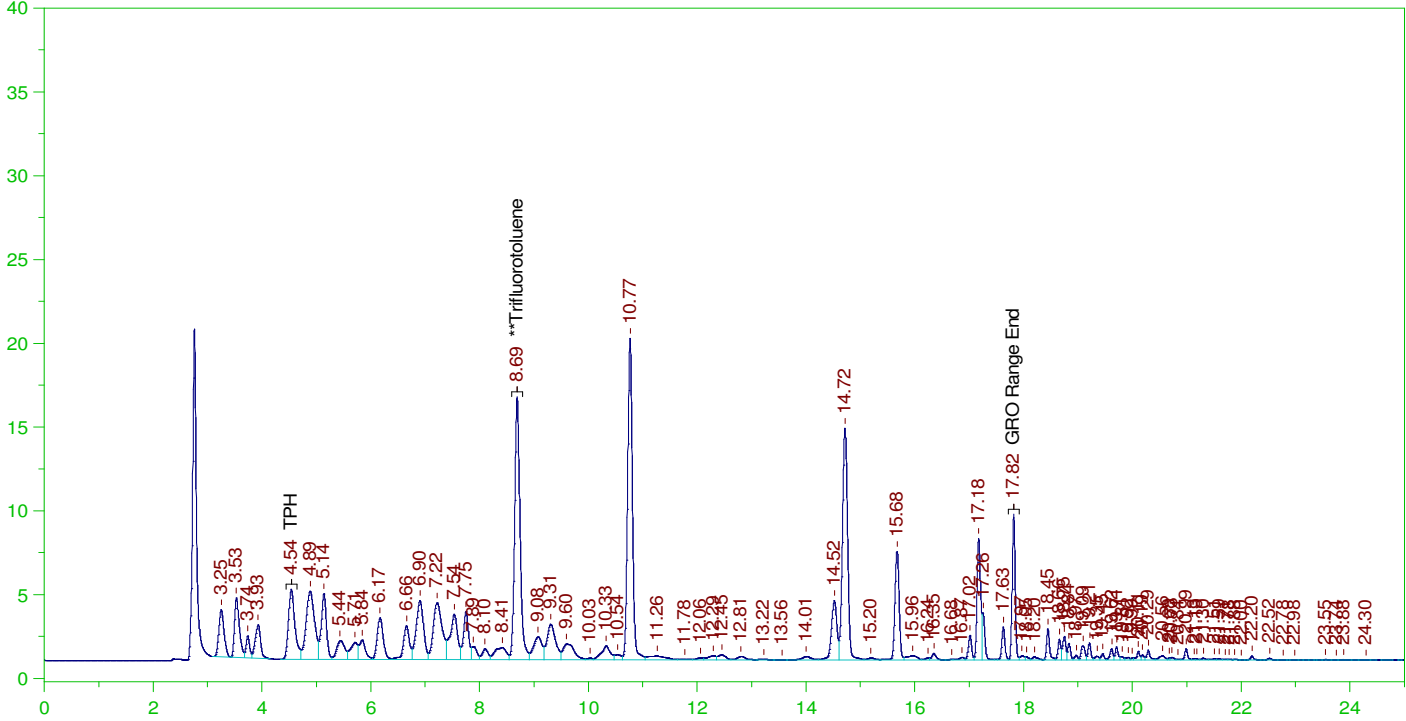
CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0007.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	423.7	50.44	85-115
TPH	1000.	504.53	50.45	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.695	125.	27.61	22.09	85-115

G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0008.RAW

CCV_0914PE108r, GQC ;0914PE1 , G3



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE108r, GQC ;0914PE1 , G3
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0008.RAW
 Date & Time Acquired: 9/14/2021 3:15:24 PM
 Method File: G:\Org\PE1\Methods\210914GROG3B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

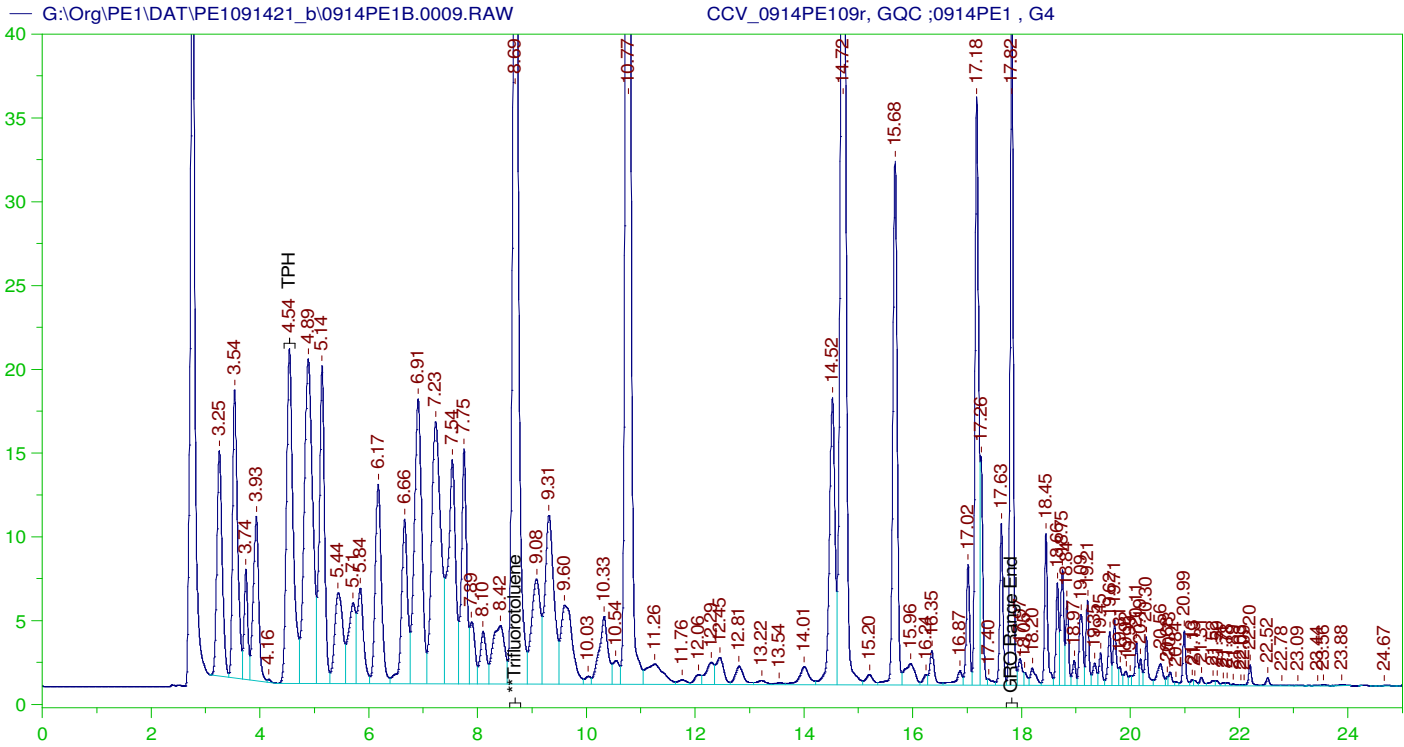
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.692	125.	116.26	93.01	-

GRO Area: 769893.8 GRO Amount: 851.1876
 TPH Area: 892476.7 TPH Amount: 1012.552

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0008.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	851.19	101.33	85-115
TPH	1000.	1012.55	101.26	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.692	125.	116.26	93.01	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE109r, GQC ;0914PE1 , G4
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0009.RAW
 Date & Time Acquired: 9/14/2021 3:50:42 PM
 Method File: G:\Org\PE1\Methods\210914GROG4B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

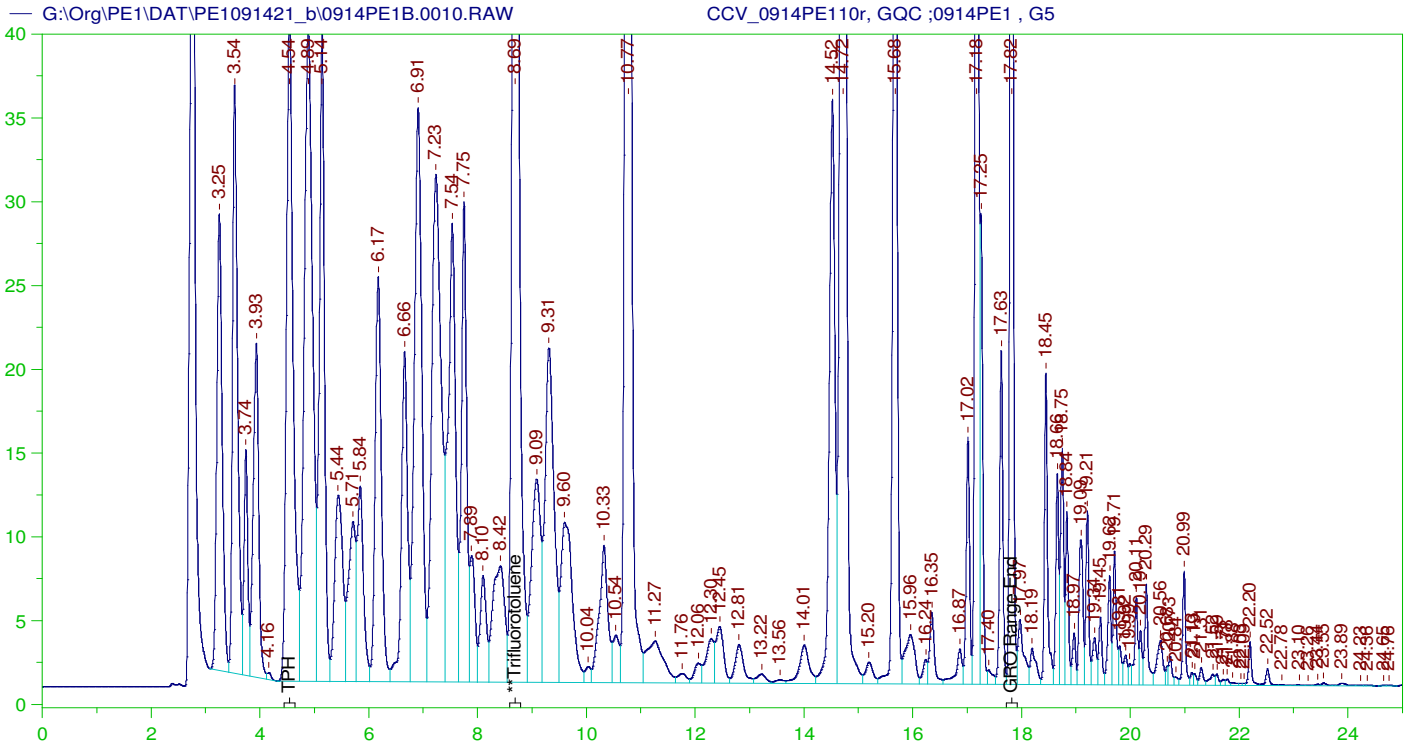
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	125.	466.271	373.02

GRO Area:3733126 GRO Amount: 4127.31
 TPH Area:4343665 TPH Amount: 4928.069

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0009.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	4127.31	491.35	85-115
TPH	1000.	4928.07	492.81	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.694	125.	466.271	373.02	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE110r, GQC ;0914PE1 , G5
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0010.RAW
 Date & Time Acquired: 9/14/2021 4:25:59 PM
 Method File: G:\Org\PE1\Methods\210914GROG5B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

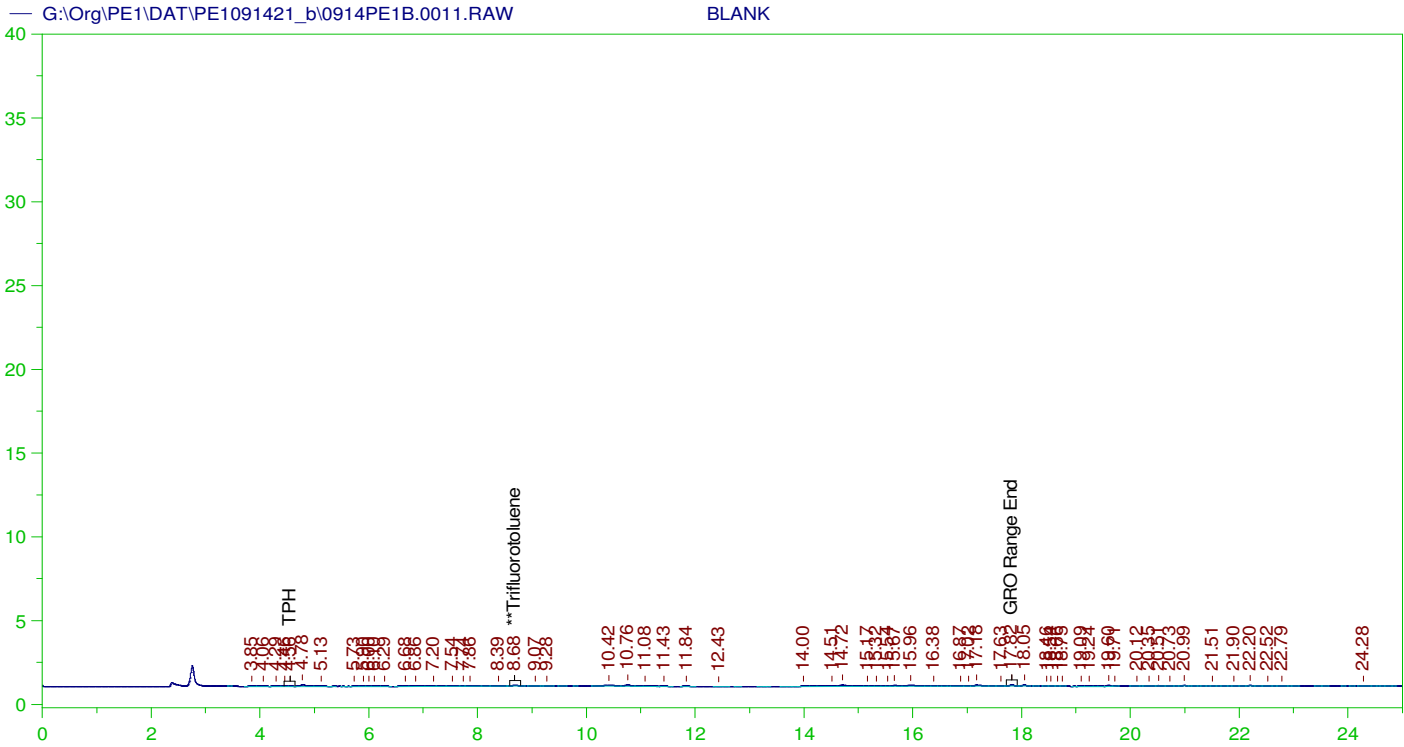
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.693	125.	899.198	719.36

GRO Area:7603094 GRO Amount: 8405.912
 TPH Area:8869705 TPH Amount: 10063.05

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0010.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	8405.91	1000.7	85-115
TPH	1000.	10063.05	1006.31	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.693	125.	899.198	719.36	85-115



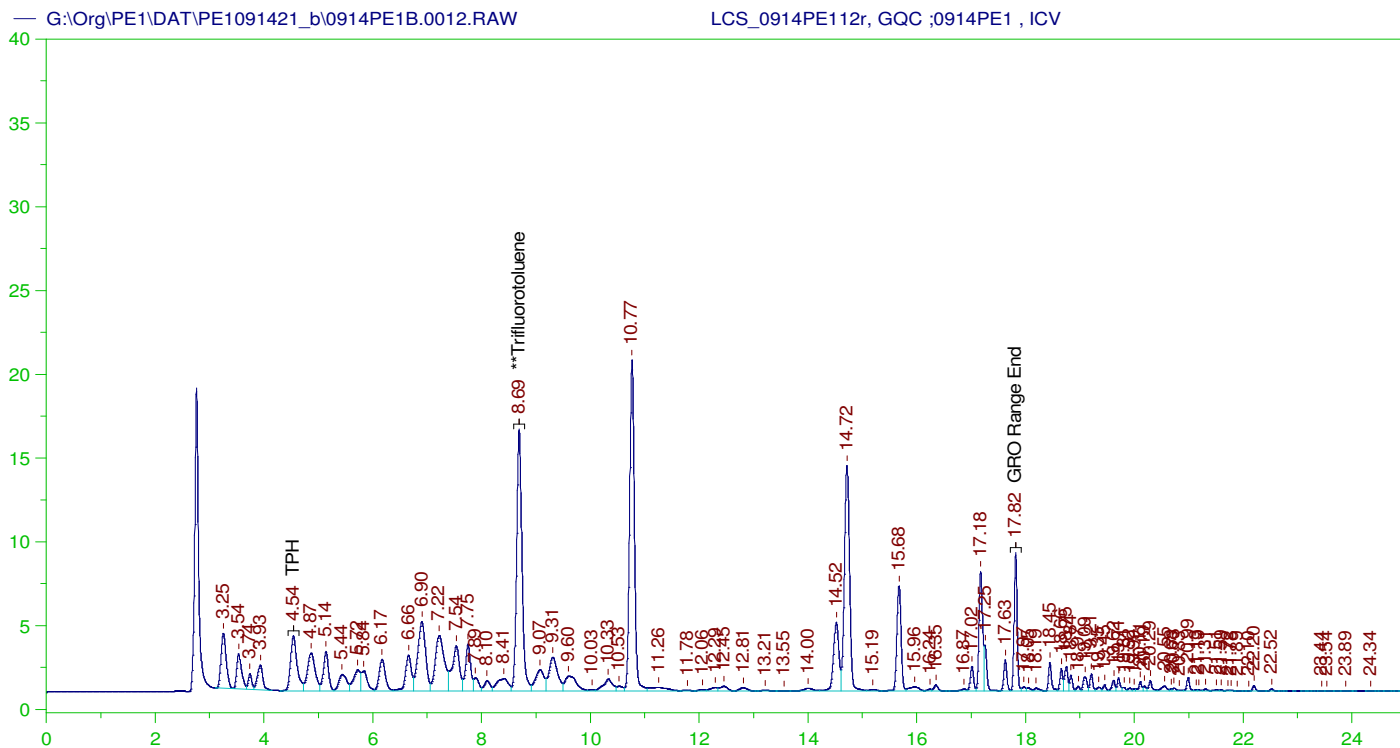
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0011.RAW
 Date & Time Acquired: 9/14/2021 5:01:19 PM
 Method File: G:\Org\PE1\Methods\210914GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.683	125.	.431	.34

GRO Area:9376.988 GRO Amount: 10.36711
 TPH Area:12955.58 TPH Amount: 14.69865



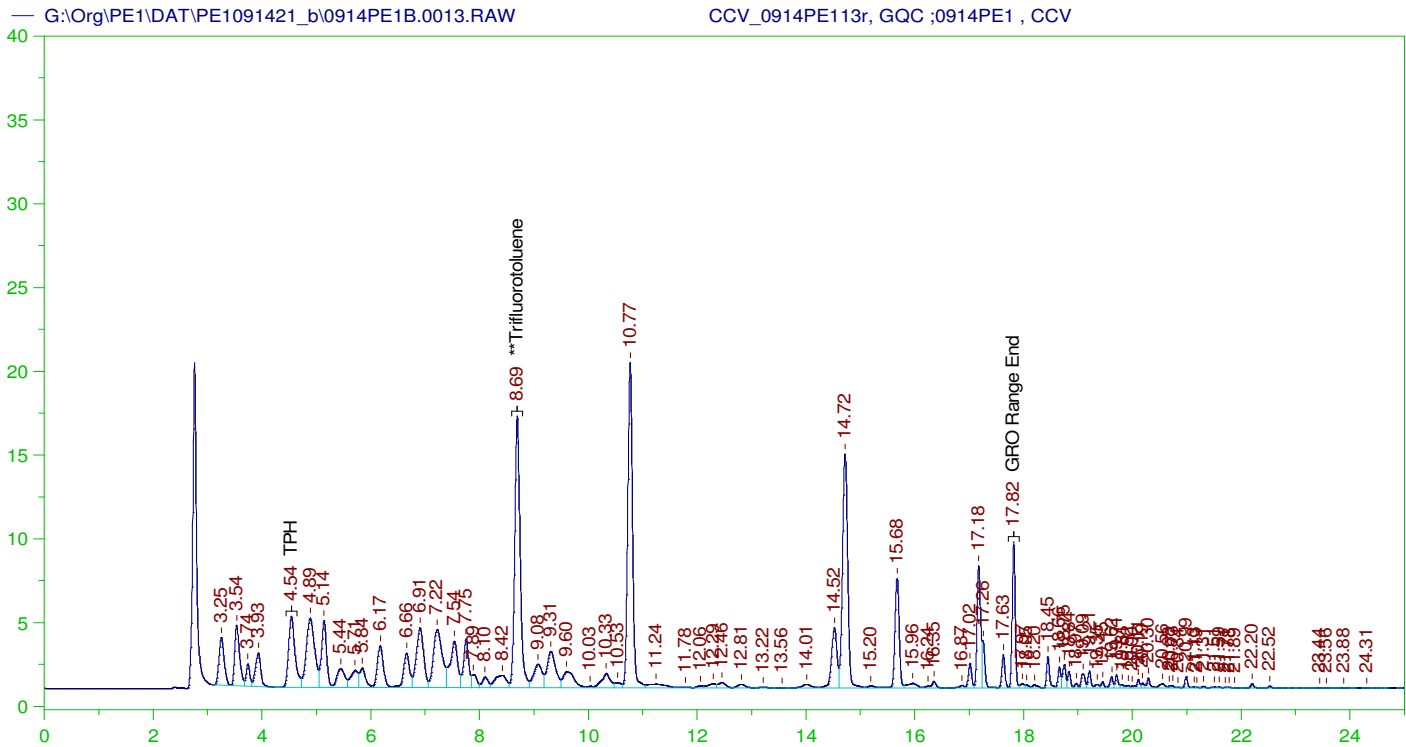
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_0914PE112r, GQC ;0914PE1 , ICV
Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0012.RAW
Date & Time Acquired: 9/14/2021 5:36:39 PM
Method File: G:\Org\PE1\Methods\210914GROICVB%.MET
Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
Mean RF for TPH: 881.4131
Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.692	25.	22.851	91.4

GRO Area: 726286.7 GRO Amount: 160.5952
TPH Area: 840271.2 TPH Amount: 190.6646



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0914PE113r, GQC ;0914PE1 , CCV
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0013.RAW
 Date & Time Acquired: 9/14/2021 6:12:01 PM
 Method File: G:\Org\PE1\Methods\210914GROCCVB%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

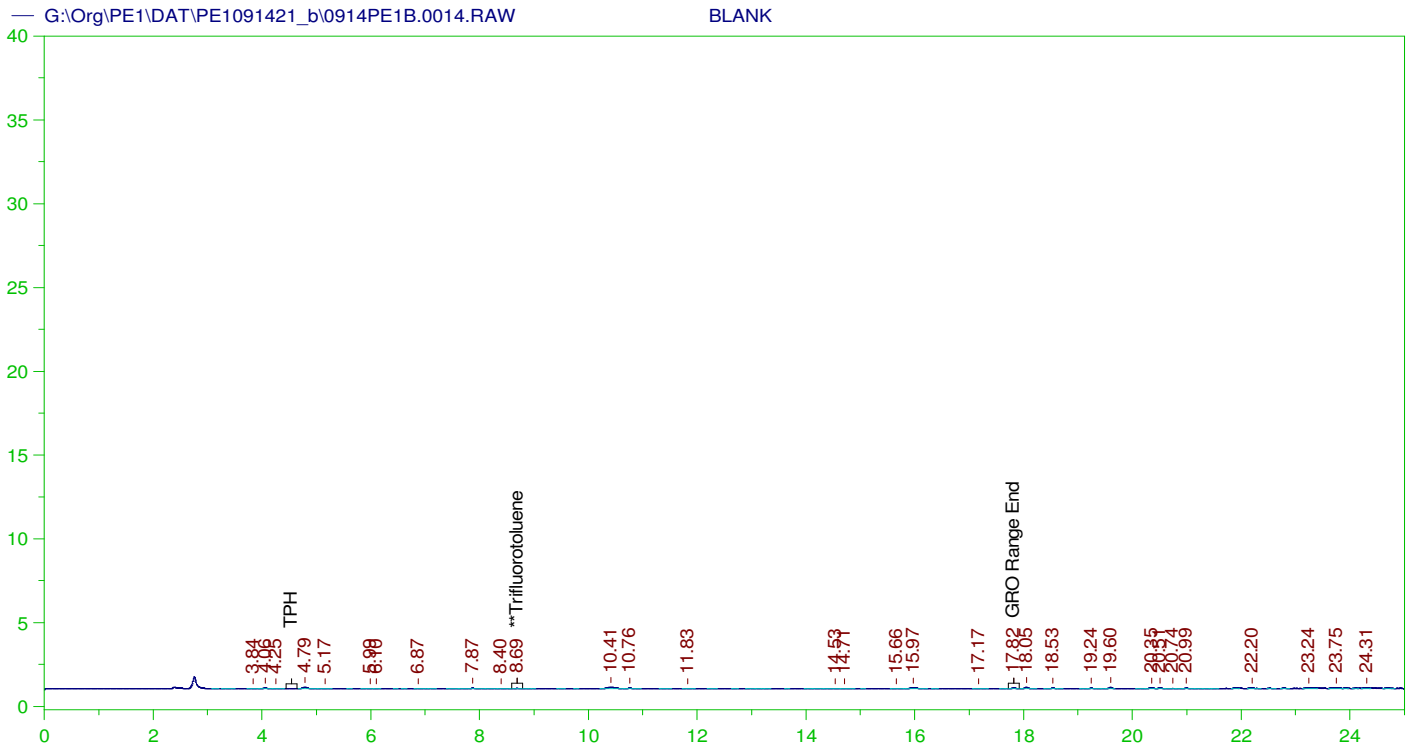
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	125.	119.922	95.94

GRO Area: 781373.5 GRO Amount: 863.8795
 TPH Area: 904970 TPH Amount: 1026.726

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0013.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	863.88	102.84	85-115
TPH	1000.	1026.73	102.67	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.694	125.	119.922	95.94	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1091421_b\0914PE1B.0014.RAW
 Date & Time Acquired: 9/14/2021 6:47:25 PM
 Method File: G:\Org\PE1\Methods\210914GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	125.	.258	.21

GRO Area: 4600.046 GRO Amount: 5.085769
 TPH Area: 7112.876 TPH Amount: 8.069856

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1091421_b\0914PE1.01r	CCV_0914PE101r, GQC :0914PE1 , AK Marker	G:\Org\PE1\Methods\21070	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1091421_b\0914PE1.02r	CCV_0914PE102r, GQC :0914PE1 , 8015 Marker	G:\Org\PE1\Methods\21091	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1091421_b\0914PE1.03r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1091421_b\0914PE1.04r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1091421_b\0914PE1.05r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1091421_b\0914PE1.06r	CCV_0914PE106r, GQC :0914PE1 , G1	G:\Org\PE1\Methods\21091	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.07r	CCV_0914PE107r, GQC :0914PE1 , G2	G:\Org\PE1\Methods\21091	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.08r	CCV_0914PE108r, GQC :0914PE1 , G3	G:\Org\PE1\Methods\21091	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.09r	CCV_0914PE109r, GQC :0914PE1 , G4	G:\Org\PE1\Methods\21091	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.10r	CCV_0914PE110r, GQC :0914PE1 , G5	G:\Org\PE1\Methods\21091	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.11r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1091421_b\0914PE1.12r	LCS_0914PE112r, GQC :0914PE1 , ICV	G:\Org\PE1\Methods\21091	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.13r	CCV_0914PE113r, GQC :0914PE1 , CCV	G:\Org\PE1\Methods\21091	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1091421_b\0914PE1.14r	BLANK	G:\Org\PE1\Methods\21091	1	1	1	1	0	None

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2021.09.22 15:48:53 -06:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

13-Jan-22

Run ID PE 1_211202A

Run Start Date: 12/2/2021
Analyst: Josie Pickard
Ical: 0
Column ID: Rtx-502.2
Comments: Evaluated for numbers that are above the MDL and below the LOD per QA and client request

Instrument ID	Description
VOC1-14	2-Place Balance

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
GAS210122	Unleaded Gasoline Comp. Std.(2.0uL)	2	ul			CCV	6/7/2023
GQC201214	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
TFT211201	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					
14900208	CCV_1202PE10	HC-8015-GRO-	CCV		12/2/2021 11:49:	1	R371174		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	231.5224	231.5224		168	0	0	2.32	20	0	138%	80	120	0%	S
Gasoline Range Organics (GRO)	A	ug/L	231.5224	231.5224		168	0	0	2.32	20	0	138%	80	120	0%	S
Total Purgeable Hydrocarbons	A	ug/L	238.5149	238.5149		200	0	0	3.56	20	0	119%	80	120	0%	
Trifluorotoluene	S	ug/L	20.00657	20.00657		25	0	0	0.0743	1	0	80%	80	120	0%	
GRO as Gasoline	X	ug/L	231.5224	231.5224		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					
14900209	CCV_1202PE10	HC-8015-GRO-	CCV		12/2/2021 12:24:	1	R371174		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	161.5417	161.5417		168	0	0	2.32	20	0	96%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	161.5417	161.5417		168	0	0	2.32	20	0	96%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	191.1054	191.1054		200	0	0	3.56	20	0	96%	80	120	0%	
Trifluorotoluene	S	ug/L	23.34182	23.34182		25	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	161.5417	161.5417		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					
14900209	CCV_1202PE10	HC-8015-GRO-	CCV		12/2/2021 12:24:	1	R371174		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					
14900210	LCS_1202PE10	HC-8015-GRO-	LCS		12/2/2021 12:59:	1	R371174		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	145.1408	145.1408		170	0	0	2.32	20	0	85%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	145.1408	145.1408		170	0	0	2.32	20	0	85%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	170.6204	170.6204		200	0	0	3.56	20	0	85%	70	130	0%	
Trifluorotoluene	S	ug/L	21.83285	21.83285		25	0	0	0.0743	1	0	87%	70	130	0%	
GRO as Gasoline	X	ug/L	145.1408	145.1408		170	0	0	2.32	20	0	85%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14900211	MBLK_1202PE	HC-8015-GRO-	MBLK		12/2/2021 1:34:2	1	R371174		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%	
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	2.239568	0		0	0	0	3.56	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.53437	20.53437		25	0	0	0.0743	1	0	82%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	

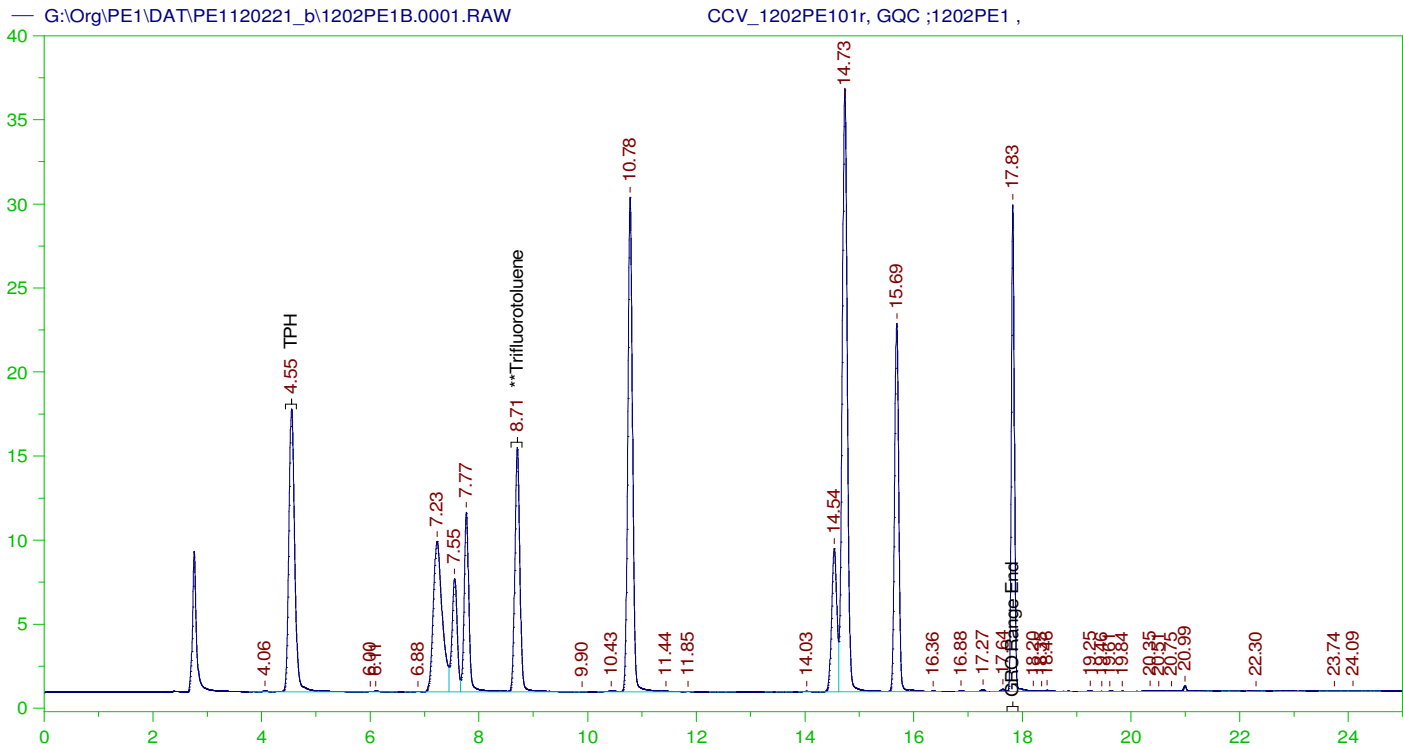
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14900212	B21112214-003	HC-8015-GRO-	SAMP		12/2/2021 2:09:3	1	R371174		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	232	20	0	0%	0	0	0%	U
Gasoline Range Organics (GRO)	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	20.01412	20.01412		25	0	0	0.0743	1	0	80%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14900213	B21112214-002	HC-8015-GRO-	SAMP		12/2/2021 2:44:3	10	R371174		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	25.33876	253.3876		0	0	0	23.2	200	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	25.33876	253.3876		0	0	0	23.2	200	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	226.9253	2269.253		0	0	0	35.6	200	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.27503	202.7503		250	0	0	0.743	10	0	81%	70	130	0%	
GRO as Gasoline	X	ug/L	25.33876	253.3876		0	0	0	23.2	200	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					
14900214	B21112214-002	HC-8015-GRO-	MS		12/2/2021 3:54:4	10	R371174		1E+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	173.3407	1733.407		1700	253.3876	0	23.2	200	0	87%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	173.3407	1733.407		1700	253.3876	0	23.2	200	0	87%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	383.5146	3835.146		2000	2269.253	0	35.6	200	0	78%	70	130	0%	
Trifluorotoluene	S	ug/L	22.58229	225.8229		250	0	0	0.743	10	0	90%	70	130	0%	
GRO as Gasoline	X	ug/L	173.3407	1733.407		0	253.3876	0	23.2	200	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					
14900215	B21112214-002	HC-8015-GRO-	MSD		12/2/2021 4:29:5	10	R371174		1E+07	1E+07						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	172.9948	1729.948		1700	253.3876	1733.407	23.2	200	0	87%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	172.9948	1729.948		1700	253.3876	1733.407	23.2	200	0	87%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	382.7552	3827.552		2000	2269.253	3835.146	35.6	200	0	78%	70	130	0%	
Trifluorotoluene	S	ug/L	22.5009	225.009		250	0	0	0.743	10	0	90%	70	130	0%	
GRO as Gasoline	X	ug/L	172.9948	1729.948		0	253.3876	1733.407	23.2	200	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					
14900216	CCV_1202PE11	HC-8015-GRO-	CCV		12/2/2021 5:39:5	1	R371174		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	228.212	228.212		168	0	0	2.32	20	0	136%	80	120	0%	S
GRO as Gasoline	A	ug/L	228.212	228.212		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	235.1938	235.1938		200	0	0	3.56	20	0	118%	80	120	0%	
Trifluorotoluene	S	ug/L	19.90978	19.90978		25	0	0	0.0743	1	0	80%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14900216	CCV_1202PE11	HC-8015-GRO-	CCV		12/2/2021 5:39:5	1	R371174		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	X	ug/L	228.212	228.212		0	0	0	2.32	20	0	0%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14900217	CCV_1202PE11	HC-8015-GRO-	CCV		12/2/2021 6:14:5	1	R371174		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	155.3021	155.3021		0	0	0	2.32	20	0	0%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	155.3021	155.3021		168	0	0	2.32	20	0	92%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	183.709	183.709		200	0	0	3.56	20	0	92%	80	120	0%	
Trifluorotoluene	S	ug/L	22.51577	22.51577		25	0	0	0.0743	1	0	90%	80	120	0%	
GRO as Gasoline	X	ug/L	155.3021	155.3021		0	0	0	2.32	20	0	0%	0	0	0%	

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\PE1\DAT\PE1120221_b\1202PE1.01r	CCV_1202PE101r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.02r	CCV_1202PE102r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.03r	LCS_1202PE103r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	5	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.04r	MBLK_1202PE104r, QC ;1202PE1 ,	G:\Org\PE1\Methods\21112	5	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.05r	B21112214-003B ;1202PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21112	5	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.06r	B21112214-002D ;1202PE1 , \$HC-8015-GRO-W,,(1,10)	G:\Org\PE1\Methods\21112	5	10	1	10	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.07r	BLANK	G:\Org\PE1\Methods\21112	1	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.08r	B21112214-002DMS, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)	G:\Org\PE1\Methods\21112	5	10	1	10	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.09r	B21112214-002DMSD, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)	G:\Org\PE1\Methods\21112	5	10	1	10	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.10r	BLANK	G:\Org\PE1\Methods\21112	1	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.11r	CCV_1202PE111r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0
G:\Org\PE1\DAT\PE1120221_b\1202PE1.12r	CCV_1202PE112r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1202PE101r, GQC ;1202PE1 ,
Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0001.RAW
Date & Time Acquired: 12/2/2021 11:49:31 AM
Method File: G:\Org\PE1\Methods\211122GROB.MET
Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
Mean RF for TPH: 881.4131
Rt range for Gasoline Range Organics: 4.44 to 17.92

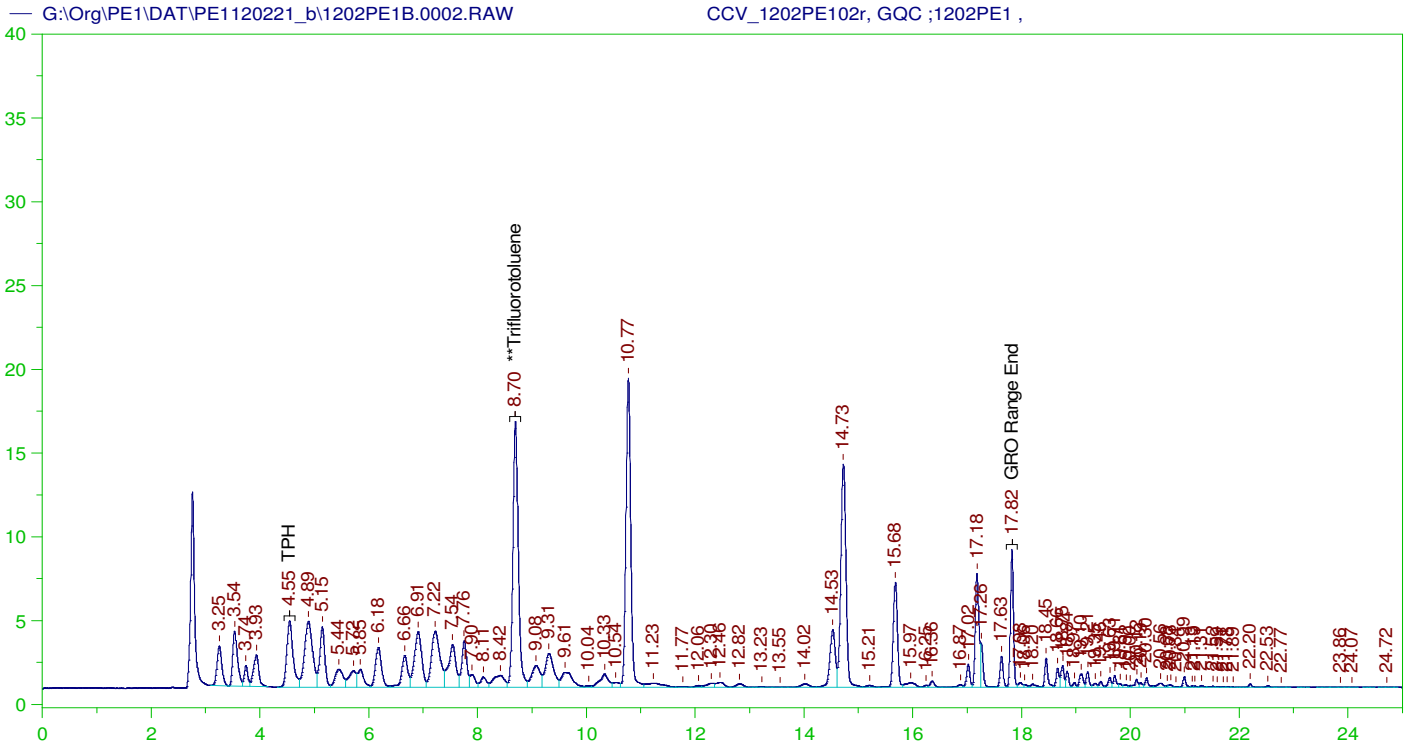
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.707	125.	100.033	80.03

GRO Area:1047053 GRO Amount: 1157.612
TPH Area:1051151 TPH Amount: 1192.574

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0001.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1157.61	137.81	85-115
TPH	1000.	1192.57	119.26	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.707	125.	100.033	80.03	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1202PE102r, GQC ;1202PE1 ,
Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0002.RAW
Date & Time Acquired: 12/2/2021 12:24:27 PM
Method File: G:\Org\PE1\Methods\211122GCCV1202_02B%.MET
Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
Mean RF for TPH: 881.4131
Rt range for Gasoline Range Organics: 4.44 to 17.92

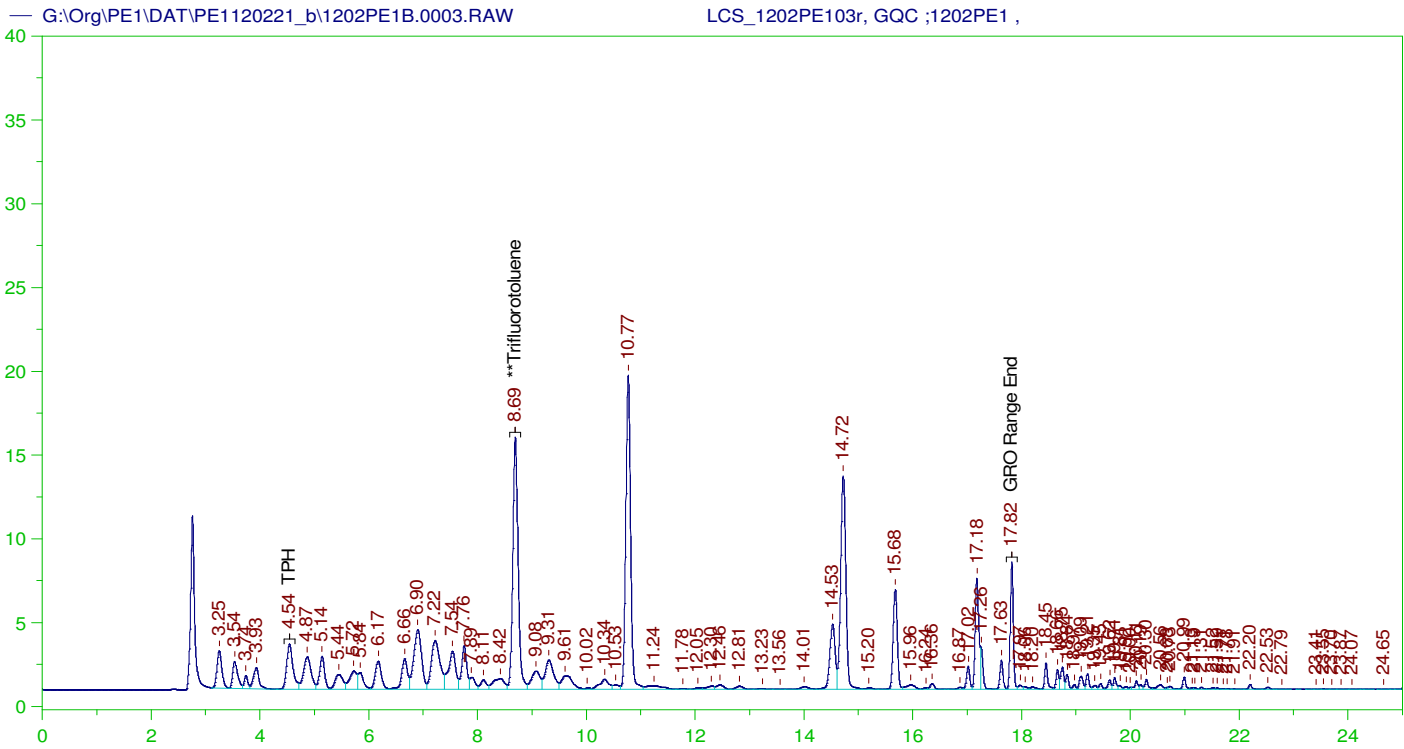
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.697	125.	116.709	93.37	-

GRO Area:730567.1 GRO Amount: 807.7084
TPH Area:842214.1 TPH Amount: 955.5272

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0002.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	807.71	96.16	85-115
TPH	1000.	955.53	95.55	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.697	125.	116.709	93.37	85-115



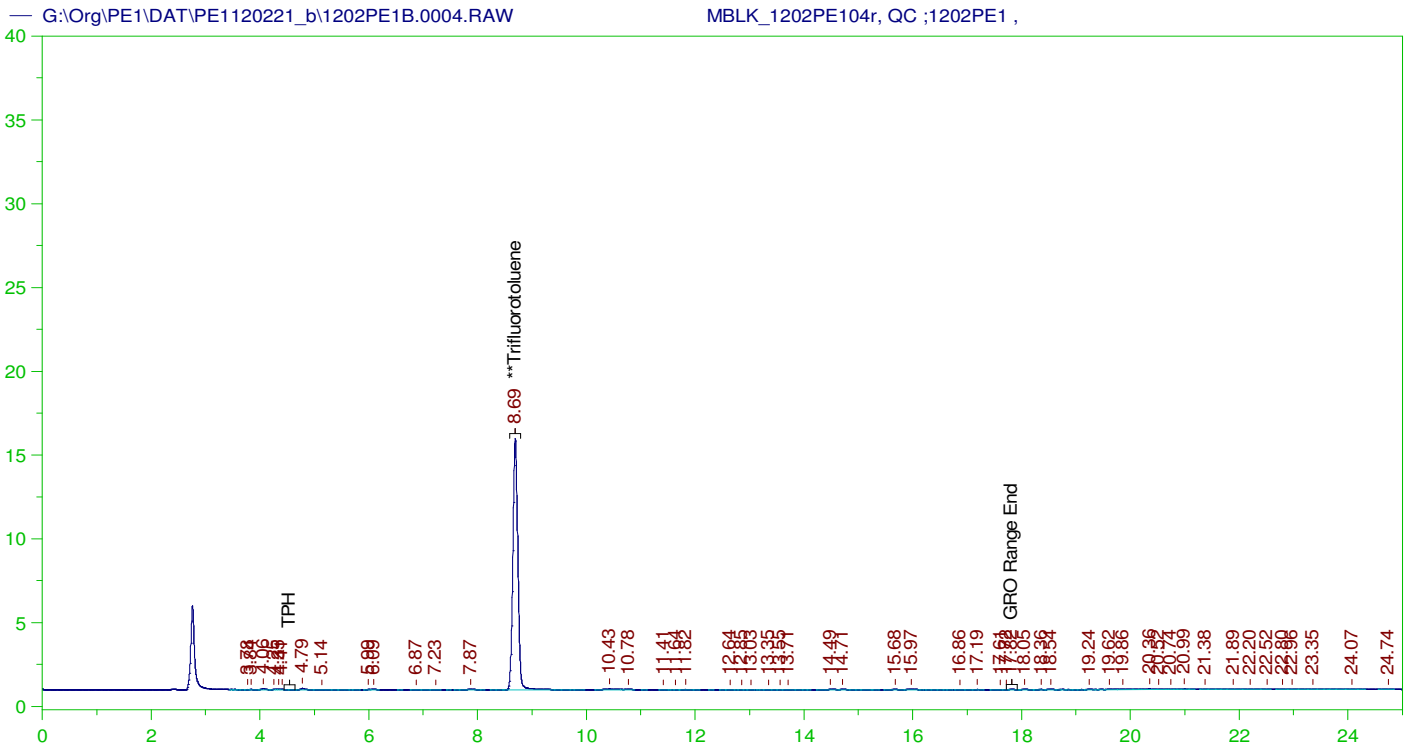
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1202PE103r, GQC ;1202PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0003.RAW
 Date & Time Acquired: 12/2/2021 12:59:27 PM
 Method File: G:\Org\PE1\Methods\211122GLCS1202_03B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.695	25.	21.833	87.33

GRO Area: 656394.7 GRO Amount: 145.1408
 TPH Area: 751935.1 TPH Amount: 170.6204



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_1202PE104r, QC ;1202PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0004.RAW
 Date & Time Acquired: 12/2/2021 1:34:27 PM
 Method File: G:\Org\PE1\Methods\211122GROB%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

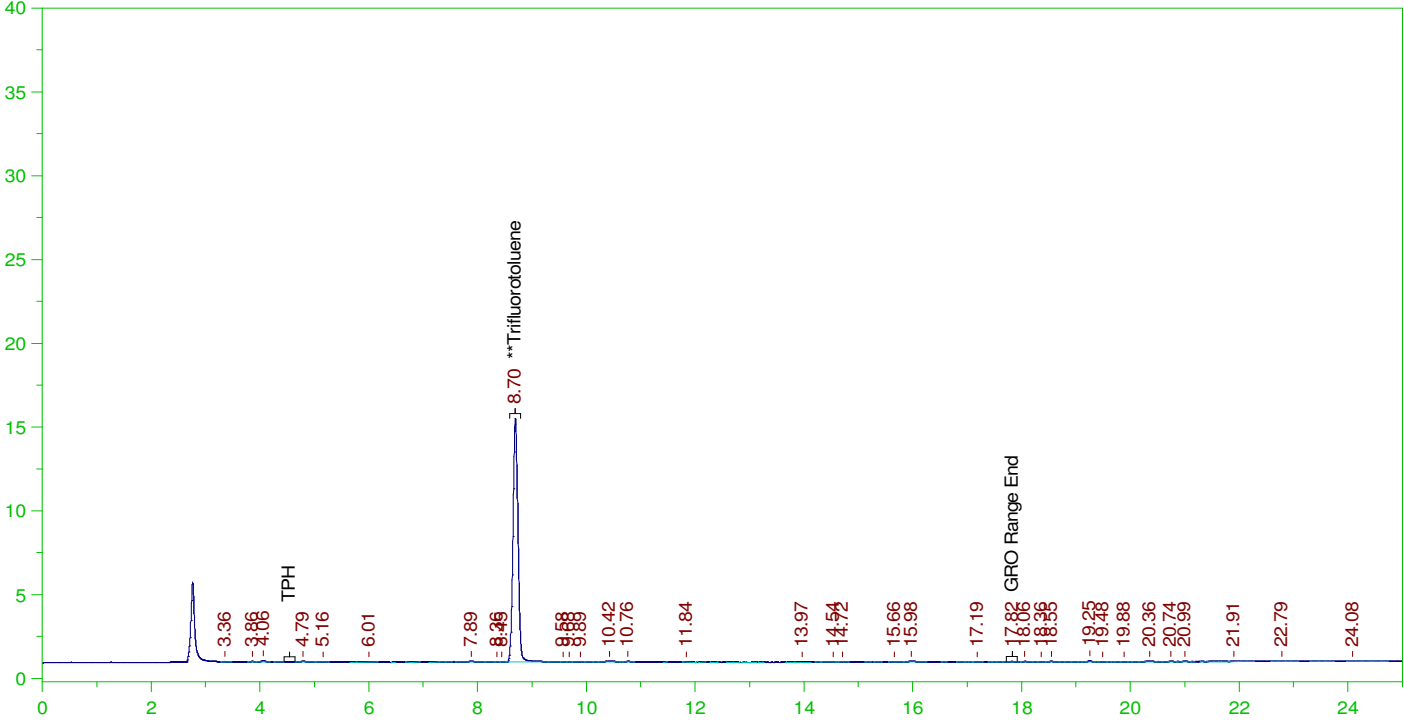
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	25.	20.534	82.14

GRO Area:6194.419 GRO Amount: 1.369699
 TPH Area:9869.922 TPH Amount: 2.239568

ERH1969 (Trip Blank)-Client Provided

G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0005.RAW

B21112214-003B ;1202PE1 , \$HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112214-003B ;1202PE1 , \$HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0005.RAW
Date & Time Acquired: 12/2/2021 2:09:32 PM
Method File: G:\Org\PE1\Methods\211122GROB%.MET
Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
Mean RF for TPH: 881.4131
Rt range for Gasoline Range Organics: 4.44 to 17.92

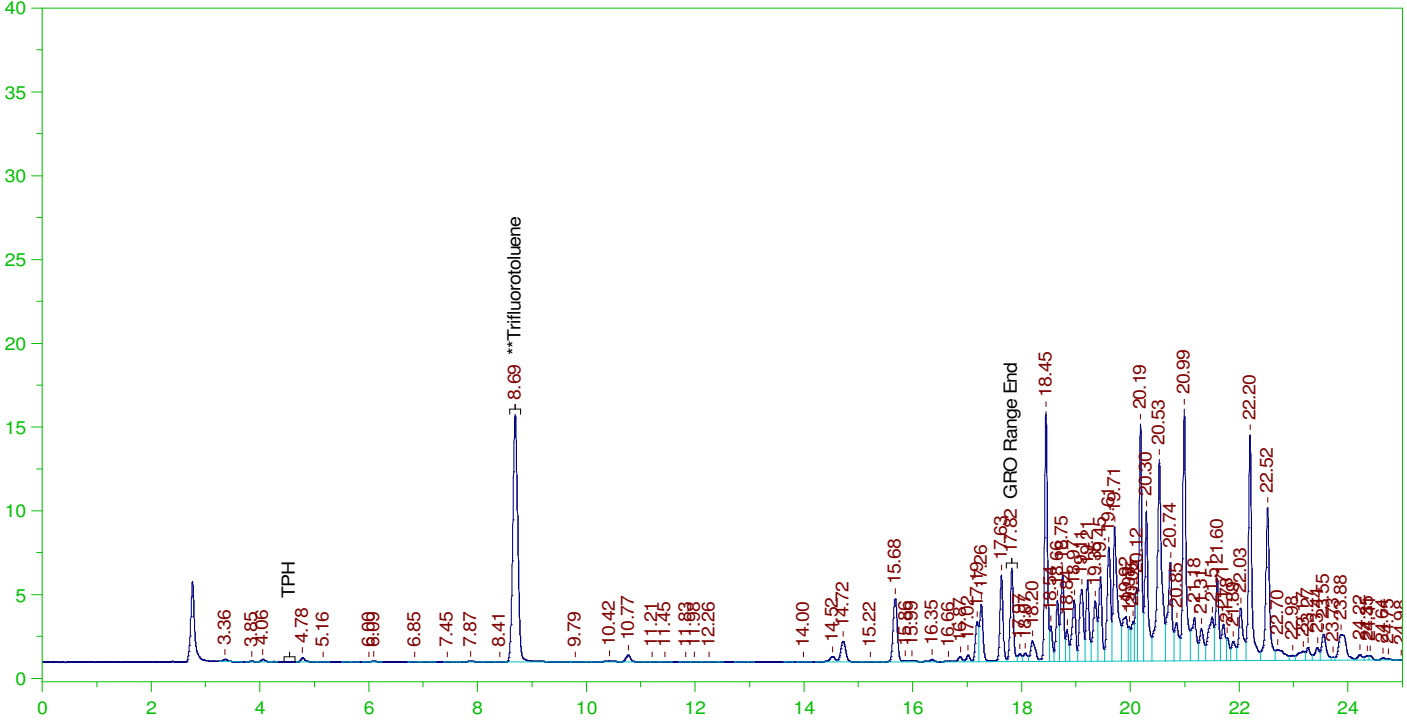
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.697	25.	20.014	80.06

GRO Area:4926.446 GRO Amount: 1.089327
TPH Area:7959.207 TPH Amount: 1.80601

ERH1968 (Adit 3 Sump)

G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0006.RAW

B21112214-002D ;1202PE1 , \$HC-8015-GRO-W,,(1,10)



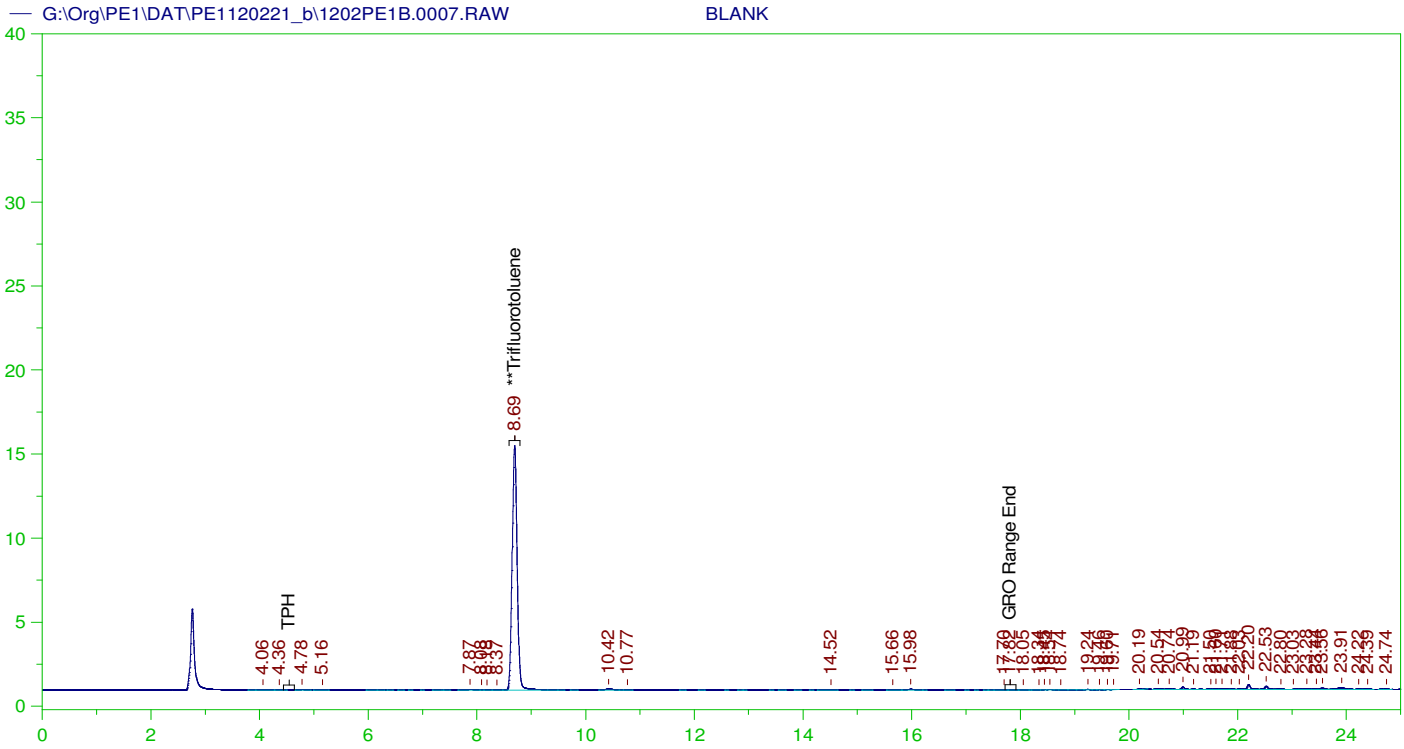
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112214-002D ;1202PE1 , \$HC-8015-GRO-W,, (1,10)
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0006.RAW
 Date & Time Acquired: 12/2/2021 2:44:36 PM
 Method File: G:\Org\PE1\Methods\211122GROB%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 5 Dilution: 10 S.A.: 10

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.693	250.	202.75	81.1

GRO Area:114593.7 GRO Amount: 253.3876
 TPH Area:1000075 TPH Amount: 2269.253



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0007.RAW
 Date & Time Acquired: 12/2/2021 3:19:41 PM
 Method File: G:\Org\PE1\Methods\211122GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

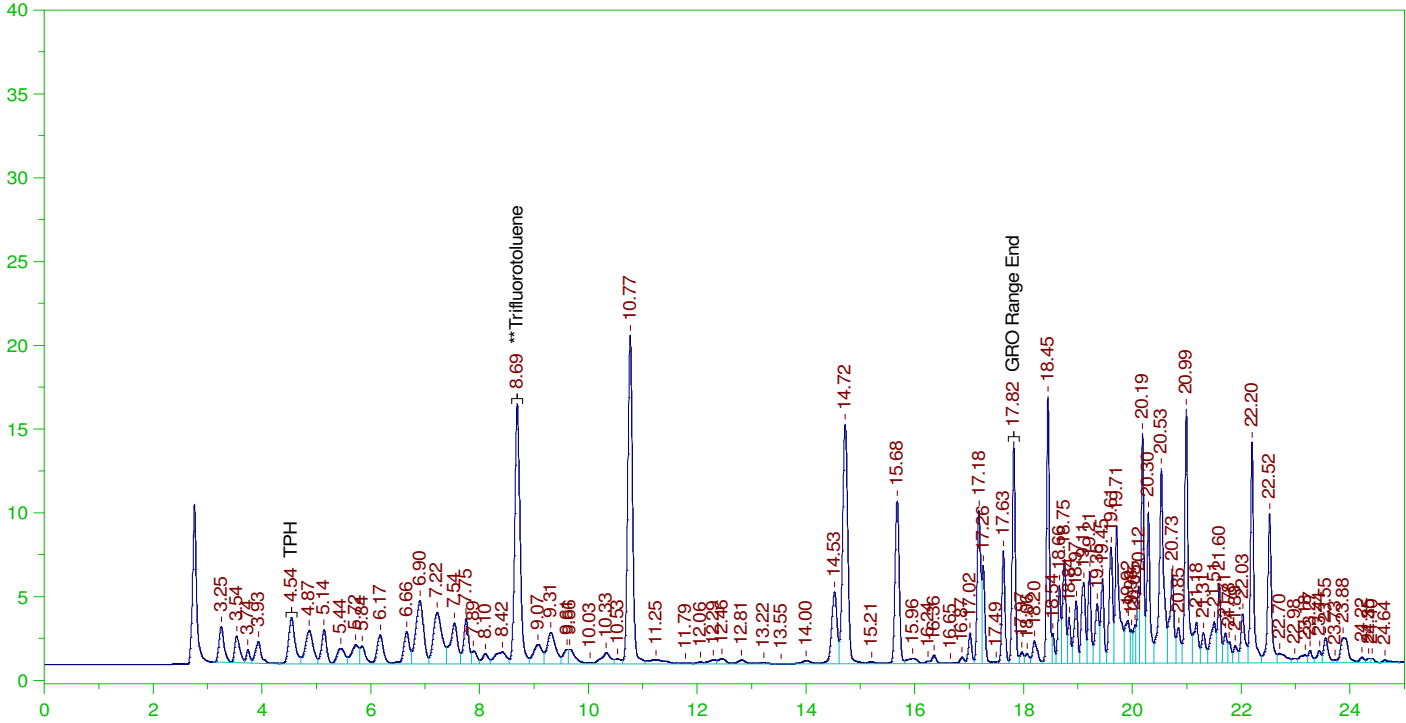
Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	125.	99.738	79.79

GRO Area:3391.34 GRO Amount: 3.749435
 TPH Area:10738.15 TPH Amount: 12.18288

G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0008.RAW

B21112214-002DMS, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112214-002DMS, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0008.RAW
 Date & Time Acquired: 12/2/2021 3:54:47 PM
 Method File: G:\Org\PE1\Methods\211122G2214-2MSB%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 5 Dilution: 10 S.A.: 10

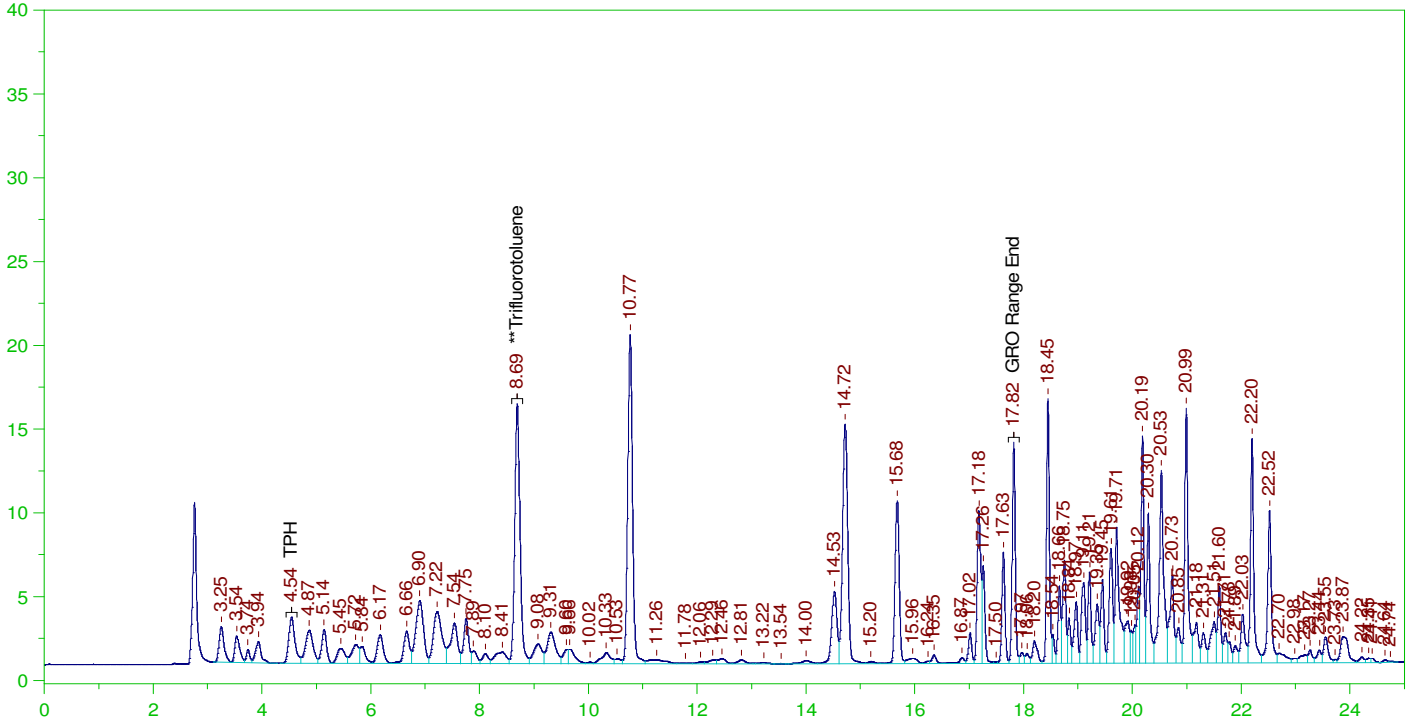
Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.694	250.	225.823	90.33	-

GRO Area:783927.9 GRO Amount: 1733.407
 TPH Area:1690174 TPH Amount: 3835.146

G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0009.RAW

B21112214-002DMSD, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)



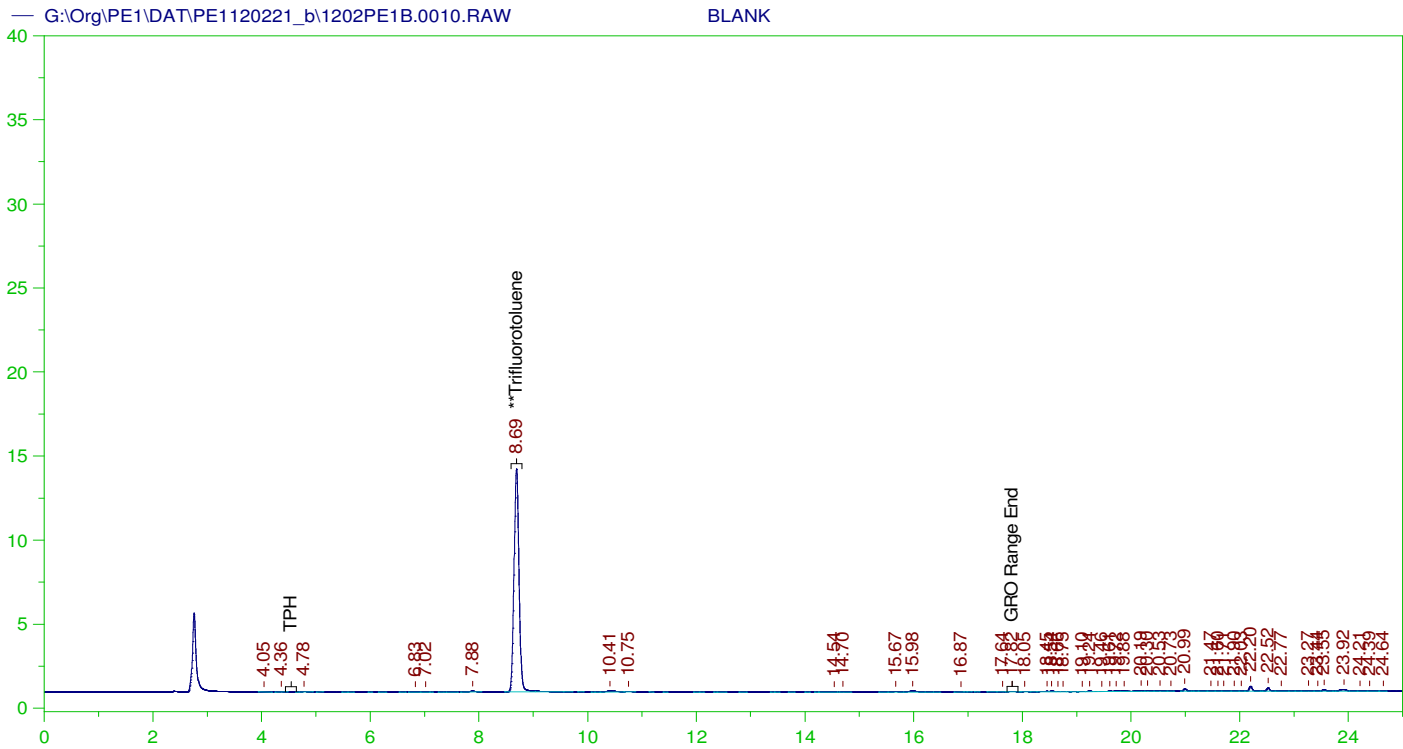
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112214-002DMSD, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0009.RAW
 Date & Time Acquired: 12/2/2021 4:29:53 PM
 Method File: G:\Org\PE1\Methods\211122GROB%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 5 Dilution: 10 S.A.: 10

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.693	250.	225.009	90.

GRO Area:782363.5 GRO Amount: 1729.948
 TPH Area:1686827 TPH Amount: 3827.552



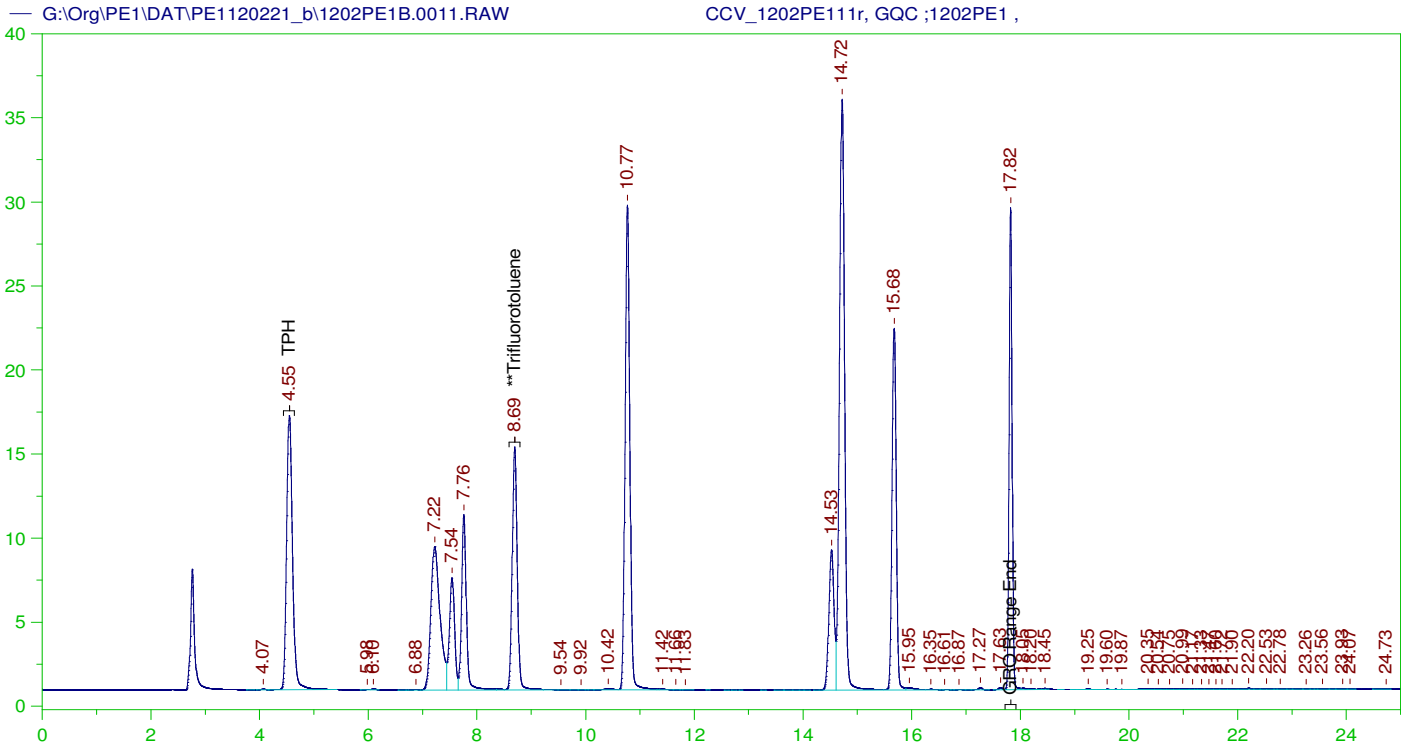
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0010.RAW
 Date & Time Acquired: 12/2/2021 5:04:57 PM
 Method File: G:\Org\PE1\Methods\211122GROB.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.691	125.	90.377	72.3

GRO Area:3766.229 GRO Amount: 4.163908
 TPH Area:11909.76 TPH Amount: 13.51212



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1202PE111r, GQC ;1202PE1 ,
Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0011.RAW
Date & Time Acquired: 12/2/2021 5:39:59 PM
Method File: G:\Org\PE1\Methods\211122GROB.MET
Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
Mean RF for TPH: 881.4131
Rt range for Gasoline Range Organics: 4.44 to 17.92

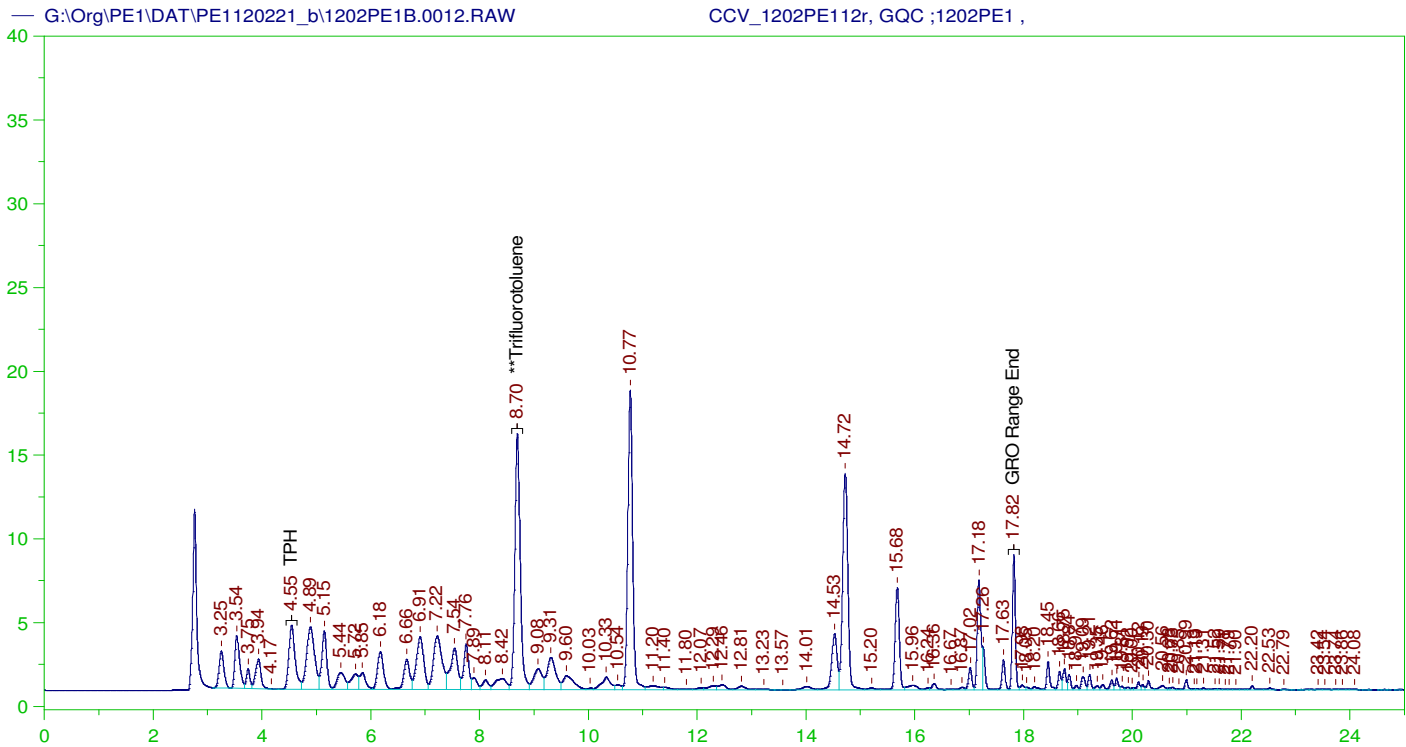
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.695	125.	99.549	79.64

GRO Area:1032082 GRO Amount: 1141.06
TPH Area:1036514 TPH Amount: 1175.969

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0011.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1141.06	135.84	85-115
TPH	1000.	1175.97	117.6	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.695	125.	99.549	79.64	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1202PE112r, GQC ;1202PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0012.RAW
 Date & Time Acquired: 12/2/2021 6:14:55 PM
 Method File: G:\Org\PE1\Methods\211122GCCV1202_12B%.MET
 Calibration File: G:\Org\PE1\Cals\210914GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 904.4937
 Mean RF for TPH: 881.4131
 Rt range for Gasoline Range Organics: 4.44 to 17.92

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.696	125.	112.579	90.06	-

GRO Area:702348.8 GRO Amount: 776.5105
 TPH Area:809617.5 TPH Amount: 918.5449

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120221_b\1202PE1B.0012.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	776.51	92.44	85-115
TPH	1000.	918.54	91.85	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.696	125.	112.579	90.06	85-115

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1120221_b\1202PE1.01r	CCV_1202PE101r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.02r	CCV_1202PE102r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120221_b\1202PE1.03r	LCS_1202PE103r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120221_b\1202PE1.04r	MBLK_1202PE104r, QC ;1202PE1 ,	G:\Org\PE1\Methods\21112	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.05r	B21112214-003B ;1202PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21112	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.06r	B21112214-002D ;1202PE1 , \$HC-8015-GRO-W,(1,10)	G:\Org\PE1\Methods\21112	5	10	1	10	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.07r	BLANK	G:\Org\PE1\Methods\21112	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.08r	B21112214-002DMS, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)	G:\Org\PE1\Methods\21112	5	10	1	10	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120221_b\1202PE1.09r	B21112214-002DMSD, GQC ;1202PE1 , \$HC-8015-GRO-W, ,(1,10)	G:\Org\PE1\Methods\21112	5	10	1	10	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.10r	BLANK	G:\Org\PE1\Methods\21112	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.11r	CCV_1202PE111r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120221_b\1202PE1.12r	CCV_1202PE112r, GQC ;1202PE1 ,	G:\Org\PE1\Methods\21112	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2022.01.14 07:28:45 -07:00

Energy Laboratories Inc

Standard LOG

Standard ID: GASL210914
Standard Name: Low Gasoline Std. Type: Secondary
Date Prepared: 9/14/2021 BY: Josie Pickard
Date Expires: 6/7/2023
Department: GCVOA Status: Open
Vendor:
Lot Number:
Balance ID:
Comments: concentration 0.42ug/ul

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EA899	13926	0.9	mL	2/12/

Final Volume: 1 mL

Stock Source
GAS210122 Unleaded Gasoline Comp. Std.(2.0uL)

Base Units
ug/mL

Amount Added
0.1 mL

Analtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: GAS210122
 Standard Name: Unleaded Gasoline Comp. Std.(2.0uL) Type: Secondary
 Date Prepared: 1/22/2021 BY: Josie Pickard
 Date Expires: 6/7/2023
 Department: GCVOA Status: New
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Concentration : 4.2ug/ul

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

<u>Stock Source</u>		Base Units	Amount Added
GASH210122	Unleaded Gasoline Composite	ug/mL	0.84 mL
<u>Analtes</u>		CAS	Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: GASH210122
Standard Name: Unleaded Gasoline Composite
Date Prepared: 1/22/2021
Date Expires: 6/7/2023
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Concentration : 50,000 ug/ml

Type: Primary
BY: Josie Pickard
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source
3GAS160127 Alaska Gasoline Calibration Mix Versio

Base Units
ug/mL

Amount Added
0.5022 g

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: 3GAS160127
 Standard Name: Alaska Gasoline Calibration Mix Version 4/8/0 Type: Neat
 Date Prepared: 1/27/2016 BY: Josie Pickard
 Date Expires: 6/7/2023
 Department: GCVOA Status: New
 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

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Alaska Gasoline Calibration Mix Versio	8120	5	mL	6/7/2023

Final Volume: 5 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**

125 Market Street
New Haven, CT 06513
USA



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

OR-OR-010-001
Rev. 01/11

Energy Laboratories Inc

Standard LOG

Standard ID: TFTL210914
Standard Name: TFTL
Date Prepared: 9/14/2021
Date Expires: 9/10/2029
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Final concentration :0.01mg/mL

Type: Secondary
BY: Josie Pickard
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EA899	13926	0.9	mL	2/12/

Final Volume: 1 mL

<u>Stock Source</u>		Base Units	Amount Added
TFTM210914	TFTM	ug/mL	0.1 mL
<u>Analtes</u>		CAS	Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: TFTM210914
Standard Name: TFTM
Date Prepared: 9/14/2021
Date Expires: 9/10/2029
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Final concentration :0.1mg/mL

Type: Secondary
BY: Josie Pickard
Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EA899	13926	0.9	mL	2/12/

Final Volume: 1 mL

<u>Stock Source</u>		Base Units	Amount Added
TFT210913	TFT (1.05uL)	ug/mL	0.1 mL
<u>Analtes</u>		CAS	Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: TFT210913
 Standard Name: TFT (1.05uL) Type: Secondary
 Date Prepared: 9/13/2021 BY: Josie Pickard
 Date Expires: 9/10/2029
 Department: GCVOA Status: New
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Final concentration : 1.0mg/mL

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EA899	13926	1.9	mL	2/12/

Final Volume: 2 mL

<u>Stock Source</u>		Base Units	Amount Added
TFTS210607	TFT Stock	ug/mL	0.1 mL
<u>Analtes</u>		CAS	Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: TFST210607
Standard Name: TFT Stock
Date Prepared: 6/7/2021
Date Expires: 9/10/2029
Department: GCVOA
Vendor: Accustandard
Lot Number: 219091095
Balance ID:
Type: Primary
BY: Josie Pickard
Status: New
Comments: 20mg/ml in Meoh Date prepared is date received.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
a,a,a-Trifluorotoluene	13921	10	mL	9/10/

Final Volume: 10 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

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 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

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Billings MT 59107

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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 $\pm 2.4\%$. 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

Energy Laboratories Inc

Standard LOG

Standard ID: GQC201214
 Standard Name: Gasoline Composite Mix (1.68uL) Type: Primary
 Date Prepared: 12/14/2020 BY: Josie Pickard
 Date Expires: 4/2/2030
 Department: GCVOA Status: New
 Vendor: Accustandard
 Lot Number: 220031562
 Balance ID:

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

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Gasoline Composite Mix	13338	5	mL	4/2/20

Final Volume: 5 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

Tosiu

CERTIFICATE OF ANALYSIS

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

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



Signal Word: Danger

Certified Reference Material



Component	CAS #	Purity % (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

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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.

Energy Laboratories Inc

Standard LOG

Standard ID: GAS210122
Standard Name: Unleaded Gasoline Comp. Std.(2.0uL) Type: Secondary
Date Prepared: 1/22/2021 BY: Josie Pickard
Date Expires: 6/7/2023
Department: GCVOA Status: New
Vendor:
Lot Number:
Balance ID:
Comments: Concentration : 4.2ug/ul

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source
GASH210122 Unleaded Gasoline Composite

Base Units
ug/mL

Amount Added
0.84 mL

Analtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: GASH210122
 Standard Name: Unleaded Gasoline Composite
 Date Prepared: 1/22/2021
 Date Expires: 6/7/2023
 Department: GCVOA
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Concentration : 50,000 ug/ml

Type: Primary
 BY: Josie Pickard
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source
 3GAS160127 Alaska Gasoline Calibration Mix Versio

Base Units
 ug/mL

Amount Added
 0.5022 g

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: 3GAS160127
Standard Name: Alaska Gasoline Calibration Mix Version 4/8/0
Date Prepared: 1/27/2016
Date Expires: 6/7/2023
Department: GCVOA
Vendor: Accustandard
Lot Number: 213051468
Balance ID:

Type: Neat
BY: Josie Pickard
Status: New

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	BottleNo	Amt	Units	Exp
Alaska Gasoline Calibration Mix Versio	8120	5	mL	6/7/2023

Final Volume: 5 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/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

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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.

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Certified by:

Larry Decker, Organic QC Manager

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OR-OR-010-001
Rev. 01/11

Energy Laboratories Inc

Standard LOG

Standard ID: TFT211201
Standard Name: TFT (1.05uL) Type: Secondary
Date Prepared: 12/1/2021 BY: Josie Pickard
Date Expires: 9/10/2029
Department: GCVOA Status: New
Vendor:
Lot Number:
Balance ID:
Comments: Final concentration : 1.0mg/mL

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap - EB199-US	14334	1.9	mL	3/20/

Final Volume: 2 mL

Stock Source

TFTS210607 TFT Stock

Base Units

ug/mL

Amount Added

0.1 mL

Analtes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

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

Type: Primary
 BY: Josie Pickard
 Status: New

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
a,a,a-Trifluorotoluene	13921	10	mL	9/10/

Final Volume: 10 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

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 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

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Billings MT 59107

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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