

Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number

P3845-01
P3845-02
P3845-03
P3845-04
P3845-05
P3845-06
P3845-07
P3845-08
P3845-09
P3845-10
P3845-11
P3845-12
P3845-13
P3845-14
P3845-15
P3845-16
P3845-17
P3845-18
P3845-19
P3845-20
P3845-21
P3845-22

Client Sample Number

PT-VOA-WP
PT-VOA-WP
PT-BN-WP
PT-BN-WP
PT-BN-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-PEST-WP
PT-PEST-WP
PT-CHLR-WP
PT-CHLR-WP
PT-TXP-WP
PT-TXP-WP
PT-PCBW-WP
PT-PCBW-WP
PT-HERB-WP
RR-GAS-WP
RR-DIES-WP
RR-8011-WP
RR-PAH-WP
RR-TRIAZINE-WP

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/22/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAYUR DESAI

Date: 10/22/2024

LAB CHRONICLE

OrderID:	P3845	OrderDate:	9/5/2024 2:19:00 PM
Client:	Chemtech Consulting Group	Project:	NJ Waste Water PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-18	RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/03/24		09/09/24	09/05/24
P3845-18RE	RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/03/24		09/09/24	09/05/24
P3845-19	RR-DIES-WP	Water	Diesel Range Organics	8015D	09/03/24	09/09/24	09/10/24	09/05/24
P3845-20	RR-8011-WP	WATER	VOCGC Group 1	8011	09/03/24	09/11/24	09/11/24	09/05/24
P3845-20DL	RR-8011-WPDL	WATER	VOCGC Group 1	8011	09/03/24	09/11/24	09/11/24	09/05/24



QC SUMMARY

WATER GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: Chemtech Consulting Group

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VB0909W1	105				0
BS0909W1	88				0
RR-GAS-WP	203 *				1
RR-GAS-WPRE	213 *				1
BS0909W2	78				0

QC LIMITS

AAA-TFT

For Water : 50-150
For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLIC

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P3845 **SAS No :** P3845 **SDG No:** P3845
Matrix Spike - EPA Sample No : BSF0909W1 **Datafile:** FB030910.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
GRO	180	0	202	112	50-150

WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P3845 **SAS No :** P3845 **SDG No:** P3845
Matrix Spike - EPA Sample No : BSF0909W2 **Datafile:** FB030915.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
GRO	180	0	202	112	50-150

LCS/LCSD % Recovery RPD : 0

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0909W1

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P3845

SAS No.: P3845 SDG NO.: P3845

Lab File ID: FB030909.D

Lab Sample ID: VBF0909W1

Date Analyzed: 09/09/24

Time Analyzed: 10:22

GC Column: RTX-502.2 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: FB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0909W1	BSF0909W1	FB030910.D	09/09/24
RR-GAS-WP	P3845-18	FB030911.D	09/09/24
RR-GAS-WPRE	P3845-18RE	FB030913.D	09/09/24
BSF0909W2	BSF0909W2	FB030915.D	09/09/24

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	RR-GAS-WP	SDG No.:	P3845
Lab Sample ID:	P3845-18	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB030911.D	1	09/09/24 11:40	FB090924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	671		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	40.7	*	50 - 150	203%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
 Data File : FB030911.D
 Signal(s) : FID2B.CH
 Acq On : 9 Sep 2024 11:40
 Operator : YP/AJ
 Sample : P3845-18
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 RR-GAS-WP

Integration File: Calibration.e
 Quant Time: Sep 10 04:29:58 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
 Quant Title :
 QLast Update : Tue Aug 27 11:54:45 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.800	491888	40.655 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.692	226844	12.695 ng/ml
2) t 2,2,4-Trimethylpentane	7.396	756642	41.268 ng/ml
3) t n-Heptane	7.740	486588	26.310 ng/ml
4) t Benzene	7.876	212141	9.390 ng/ml
6) t Toluene	10.612	2085243	95.474 ng/ml
7) t Ethylbenzene	13.048	580411	27.726 ng/ml
8) t m-Xylene	13.179	1839938	88.677 ng/ml
9) t O-Xylene	13.909	697527	34.609 ng/ml
10) t 1,2,4-Trimethylbenzene	16.184	747396	37.456 ng/ml

(f)=RT Delta > 1/2 Window

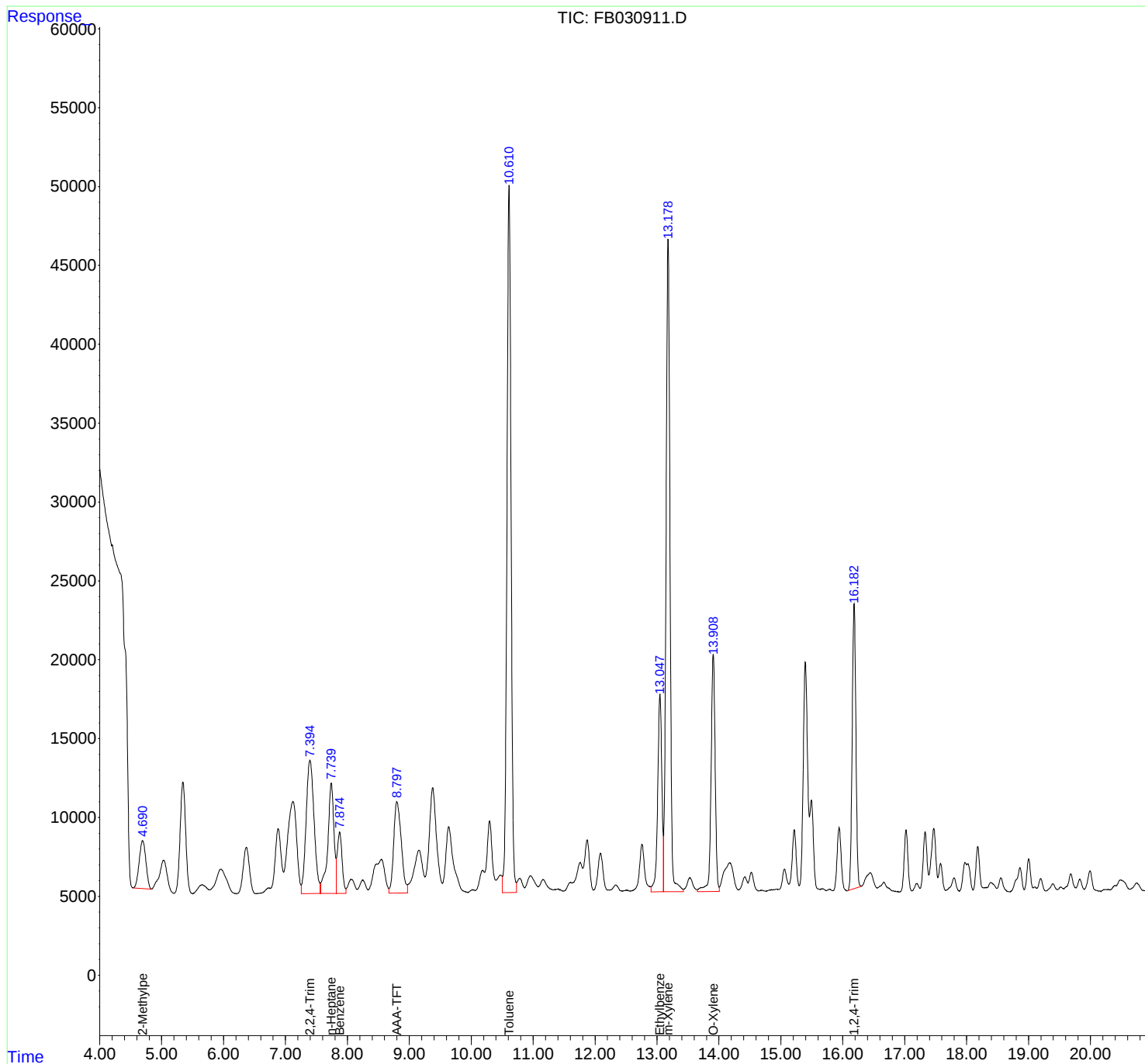
(m)=manual int.

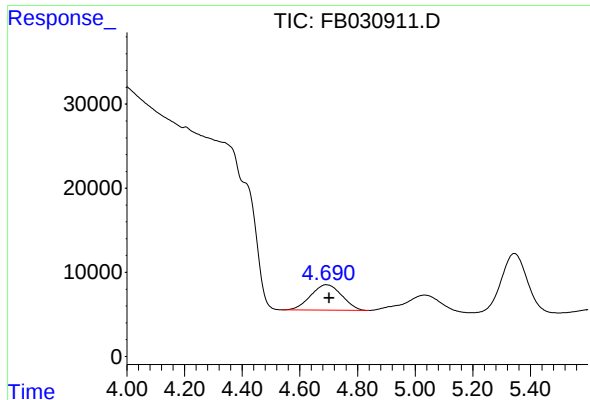
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030911.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 11:40
Operator : YP/AJ
Sample : P3845-18
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
RR-GAS-WP

Integration File: Calibration.e
Quant Time: Sep 10 04:29:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

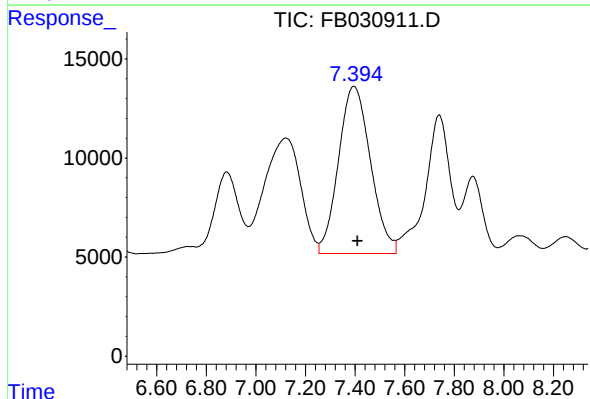




#1 2-Methylpentane

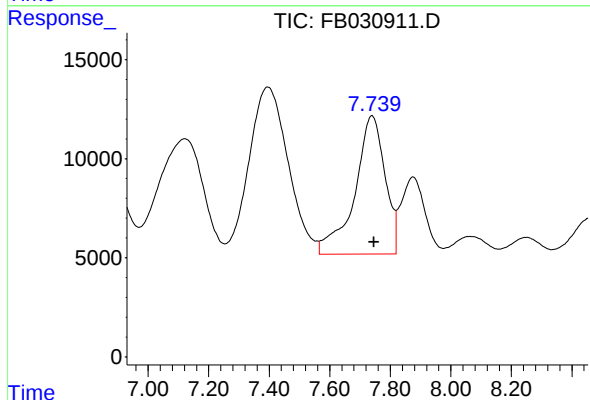
R.T.: 4.692 min
Delta R.T.: -0.010 min
Response: 226844
Conc: 12.69 ng/ml

Instrument :
FID_B
ClientSampleId :
RR-GAS-WP



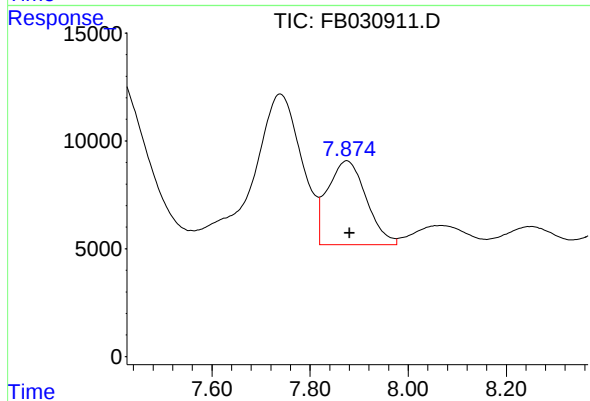
#2 2,2,4-Trimethylpentane

R.T.: 7.396 min
Delta R.T.: -0.015 min
Response: 756642
Conc: 41.27 ng/ml



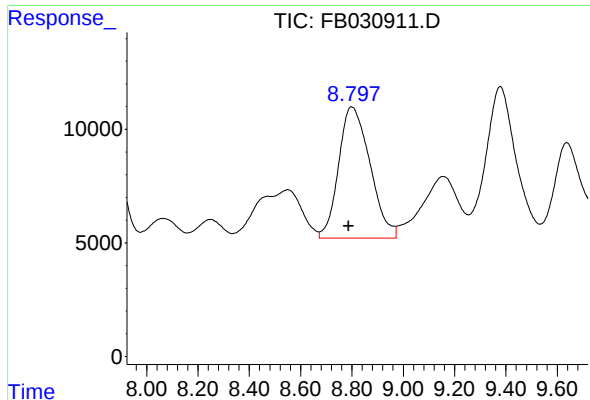
#3 n-Heptane

R.T.: 7.740 min
Delta R.T.: -0.007 min
Response: 486588
Conc: 26.31 ng/ml



#4 Benzene

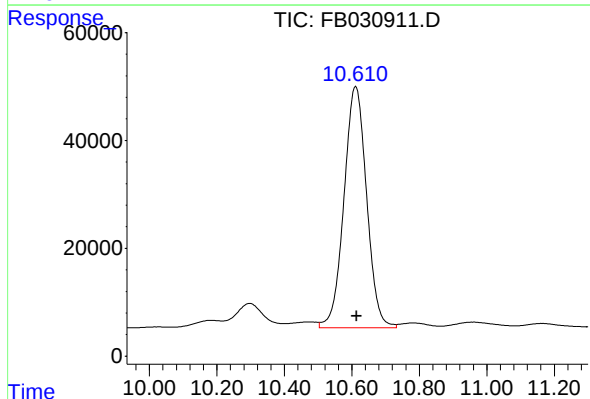
R.T.: 7.876 min
Delta R.T.: -0.006 min
Response: 212141
Conc: 9.39 ng/ml



#5 AAA-TFT

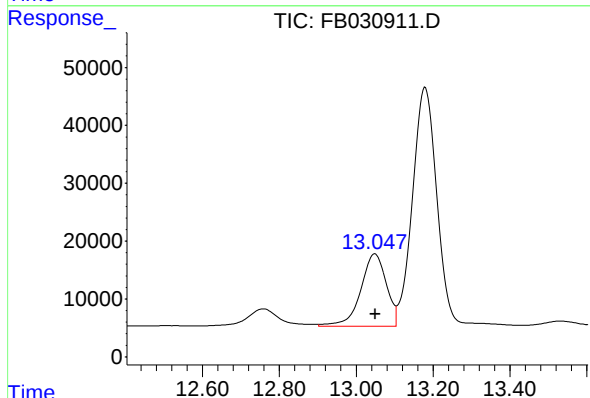
R.T.: 8.800 min
Delta R.T.: 0.013 min
Response: 491888
Conc: 40.66 ng/ml

Instrument :
FID_B
ClientSampleId :
RR-GAS-WP



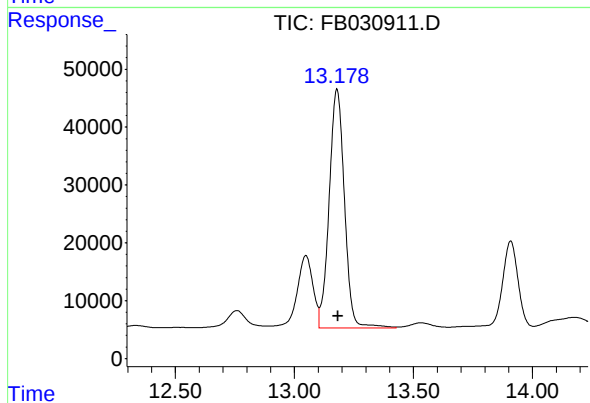
#6 Toluene

R.T.: 10.612 min
Delta R.T.: -0.003 min
Response: 2085243
Conc: 95.47 ng/ml



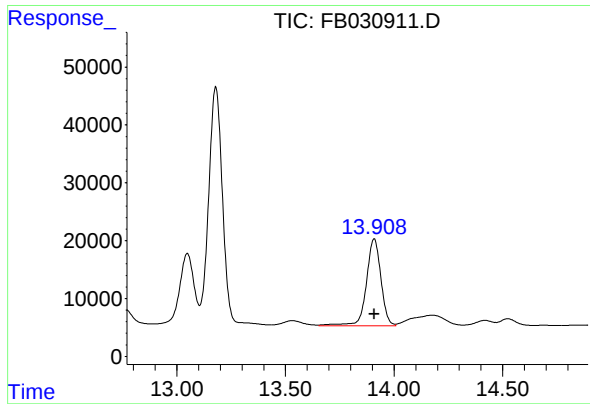
#7 Ethylbenzene

R.T.: 13.048 min
Delta R.T.: -0.002 min
Response: 580411
Conc: 27.73 ng/ml



#8 m-Xylene

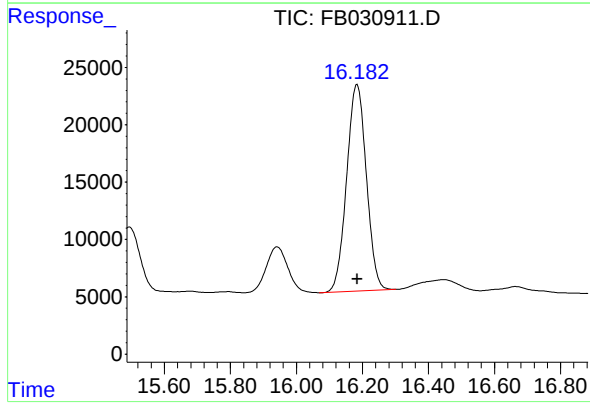
R.T.: 13.179 min
Delta R.T.: -0.003 min
Response: 1839938
Conc: 88.68 ng/ml



#9 O-Xylene

R.T.: 13.909 min
Delta R.T.: 0.000 min
Response: 697527
Conc: 34.61 ng/ml

Instrument :
FID_B
ClientSampleId :
RR-GAS-WP



#10 1,2,4-Trimethylbenzene

R.T.: 16.184 min
Delta R.T.: 0.000 min
Response: 747396
Conc: 37.46 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030911.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 11:40
Sample : P3845-18
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.692	4.504	4.839	BV	2909	201937	9.68%	1.459%
2	5.660	5.500	5.779	PV	574	57873	2.78%	0.418%
3	5.960	5.779	6.217	VV	1562	186599	8.95%	1.348%
4	6.369	6.217	6.518	PV	2949	205892	9.87%	1.488%
5	6.743	6.518	6.761	VV	371	21893	1.05%	0.158%
6	7.122	6.971	7.254	VV	5832	591852	28.38%	4.277%
7	7.396	7.254	7.563	VV	8442	755715	36.24%	5.461%
8	7.740	7.563	7.820	VV	6994	488358	23.42%	3.529%
9	7.875	7.820	7.978	VV	3896	211561	10.15%	1.529%
10	8.065	7.978	8.160	VV	883	64683	3.10%	0.467%
11	8.249	8.160	8.335	VV	829	55671	2.67%	0.402%
12	8.549	8.335	8.672	VV	2142	259978	12.47%	1.879%
13	8.800	8.672	8.970	VV	5786	490996	23.55%	3.548%
14	9.156	8.970	9.254	VV	2712	267914	12.85%	1.936%
15	9.378	9.254	9.533	VV	6676	548888	26.32%	3.966%
16	9.637	9.533	9.945	VV	4194	360523	17.29%	2.605%
17	10.024	9.945	10.069	VV	181	9350	0.45%	0.068%
18	10.185	10.069	10.219	VV	1405	78124	3.75%	0.565%
19	10.297	10.219	10.403	VV	4549	268241	12.86%	1.938%
20	10.472	10.403	10.503	VV	1106	59458	2.85%	0.430%
21	10.612	10.503	10.731	VV	44799	2085130	100.00%	15.067%
22	10.783	10.731	10.863	VV	893	52692	2.53%	0.381%
23	10.959	10.863	11.083	VV	1054	91262	4.38%	0.659%
24	11.162	11.083	11.328	VV	810	66842	3.21%	0.483%
25	11.401	11.328	11.494	VV	191	15017	0.72%	0.109%
26	11.760	11.494	11.802	VV	1889	158555	7.60%	1.146%
27	11.873	11.802	11.977	VV	3312	188664	9.05%	1.363%
28	12.088	11.977	12.232	VV	2460	145785	6.99%	1.053%
29	12.335	12.232	12.435	VV	446	28869	1.38%	0.209%
30	12.506	12.435	12.566	VV	109	6478	0.31%	0.047%
31	12.759	12.566	12.902	VV	3014	181327	8.70%	1.310%
32	13.048	12.902	13.103	VV	12526	580257	27.83%	4.193%
33	13.179	13.103	13.427	VV	41328	1839680	88.23%	13.293%
34	13.532	13.427	13.654	VV	882	59063	2.83%	0.427%
35	13.909	13.654	14.008	VV	15045	697221	33.44%	5.038%
36	14.175	14.008	14.317	VV	1802	195198	9.36%	1.410%

					rteres				
37	14.419	14.317	14.472	VV	916	50344	2.41%	0.364%	
38	14.524	14.472	14.646	VV	1189	59385	2.85%	0.429%	
39	14.690	14.646	14.757	VV	58	2554	0.12%	0.018%	
40	14.937	14.757	14.973	VV	124	10529	0.50%	0.076%	
41	15.060	14.973	15.130	VV	1402	69933	3.35%	0.505%	
42	15.218	15.130	15.297	VV	3896	182331	8.74%	1.317%	
43	15.397	15.297	15.463	VV	14478	712418	34.17%	5.148%	
44	15.493	15.463	15.647	VV	5745	235848	11.31%	1.704%	
45	15.674	15.647	15.736	VV	138	4999	0.24%	0.036%	
46	15.788	15.736	15.842	VV	100	3713	0.18%	0.027%	
47	15.942	15.842	16.069	VV	4013	182735	8.76%	1.320%	
48	16.184	16.069	16.302	PV	18024	747114	35.83%	5.398%	
					Sum of corrected areas:	13839450			

FB082724.M Tue Sep 10 08:41:45 2024

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	RR-GAS-WPRE	SDG No.:	P3845
Lab Sample ID:	P3845-18RE	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB030913.D	1	09/09/24 12:57	FB090924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	696		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	42.5	*	50 - 150	213%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
 Data File : FB030913.D
 Signal(s) : FID2B.CH
 Acq On : 9 Sep 2024 12:57
 Operator : YP/AJ
 Sample : P3845-18RE
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 RR-GAS-WPRE

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/10/2024
 Supervised By :Ankita Jodhani 09/10/2024

Integration File: Calibration.e
 Quant Time: Sep 10 04:30:09 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
 Quant Title :
 QLast Update : Tue Aug 27 11:54:45 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.802	514604	42.533 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.702	246315	13.784 ng/mlm
2) t 2,2,4-Trimethylpentane	7.398	744092	40.583 ng/ml
3) t n-Heptane	7.745	521719	28.210 ng/ml
4) t Benzene	7.880	224078	9.918 ng/ml
6) t Toluene	10.615	2212007	101.278 ng/ml
7) t Ethylbenzene	13.050	605900	28.943 ng/ml
8) t m-Xylene	13.181	1906131	91.867 ng/ml
9) t O-Xylene	13.910	714796	35.466 ng/ml
10) t 1,2,4-Trimethylbenzene	16.185	728576	36.513 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030913.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 12:57
Operator : YP/AJ
Sample : P3845-18RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

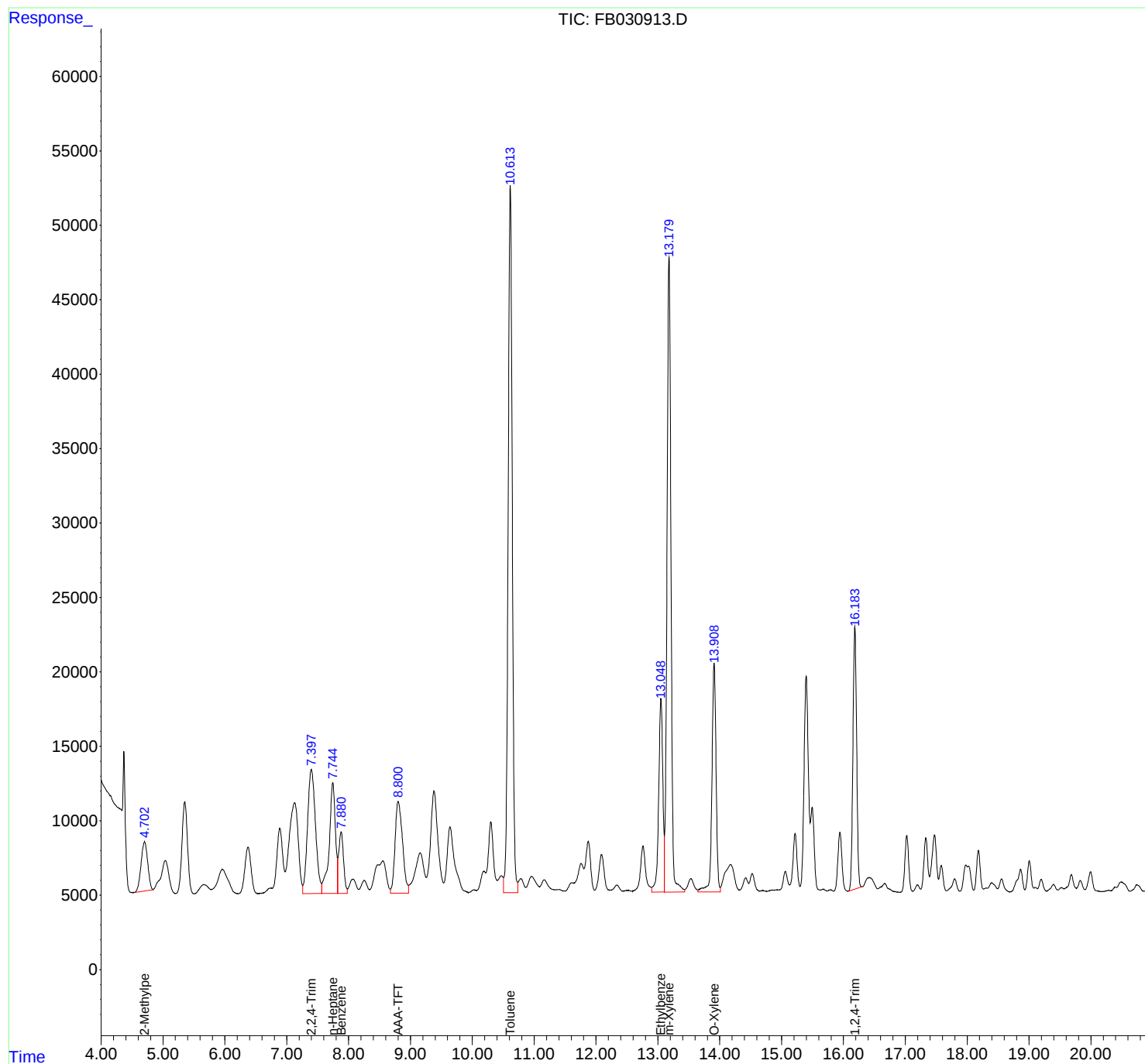
Instrument :
FID_B
ClientSampleId :
RR-GAS-WPRE

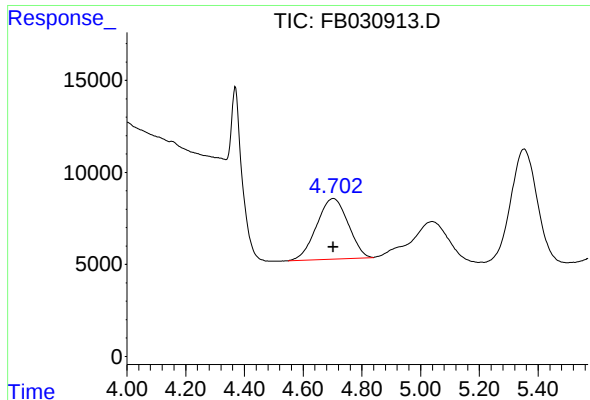
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/10/2024
Supervised By :Ankita Jodhani 09/10/2024

Integration File: Calibration.e
Quant Time: Sep 10 04:30:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





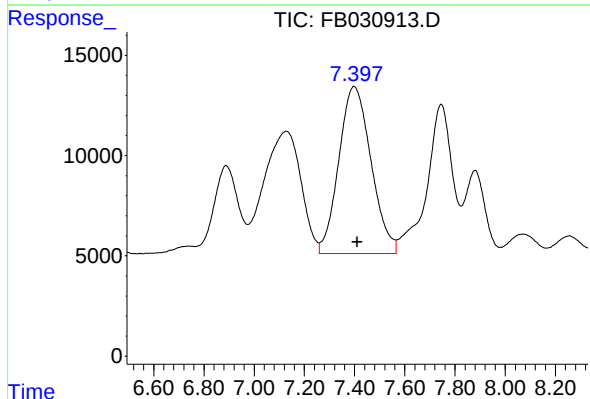
#1 2-Methylpentane

R.T.: 4.702 min
Delta R.T.: 0.000 min
Response: 246315
Conc: 13.78 ng/ml

Instrument :
FID_B
ClientSampleId :
RR-GAS-WPRE

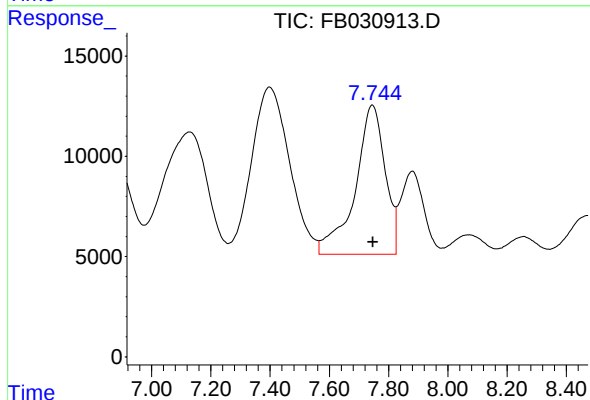
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/10/2024
Supervised By :Ankita Jodhani 09/10/2024



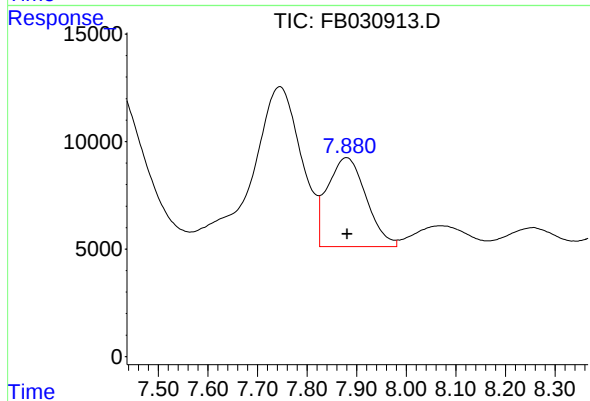
#2 2,2,4-Trimethylpentane

R.T.: 7.398 min
Delta R.T.: -0.013 min
Response: 744092
Conc: 40.58 ng/ml



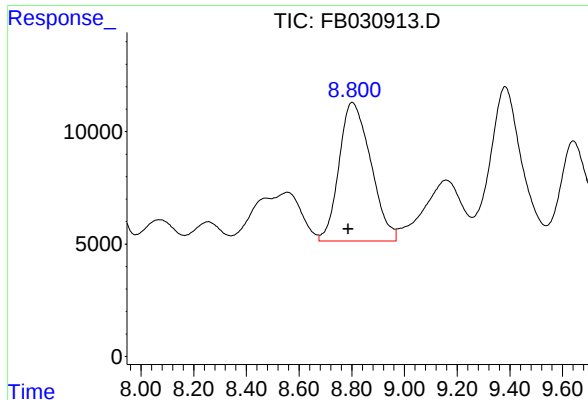
#3 n-Heptane

R.T.: 7.745 min
Delta R.T.: -0.001 min
Response: 521719
Conc: 28.21 ng/ml



#4 Benzene

R.T.: 7.880 min
Delta R.T.: 0.000 min
Response: 224078
Conc: 9.92 ng/ml



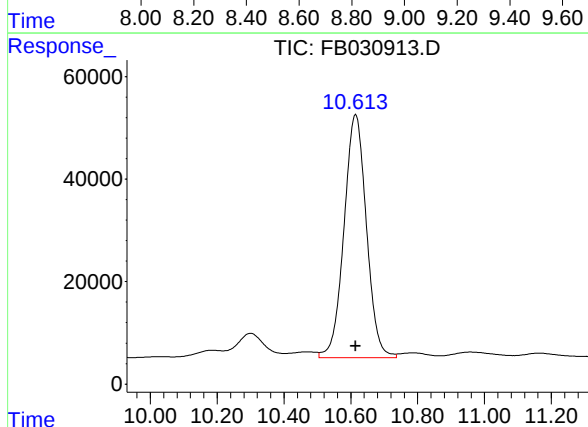
#5 AAA-TFT

R.T.: 8.802 min
Delta R.T.: 0.016 min
Response: 514604
Conc: 42.53 ng/ml

Instrument :
FID_B
ClientSampleId :
RR-GAS-WPRE

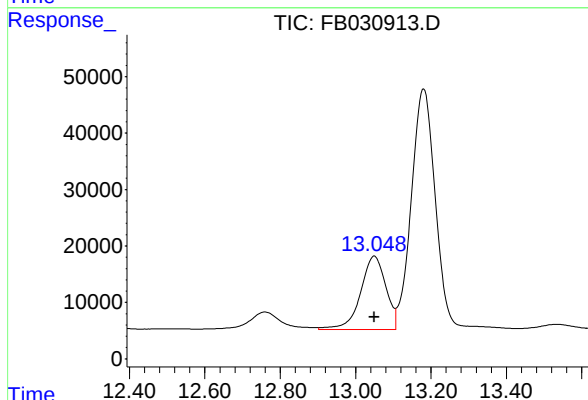
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/10/2024
Supervised By :Ankita Jodhani 09/10/2024



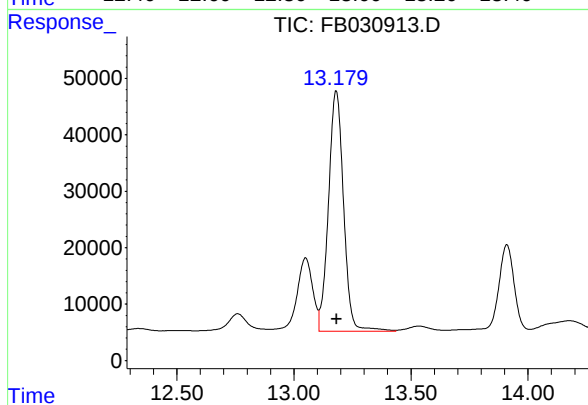
#6 Toluene

R.T.: 10.615 min
Delta R.T.: 0.000 min
Response: 2212007
Conc: 101.28 ng/ml



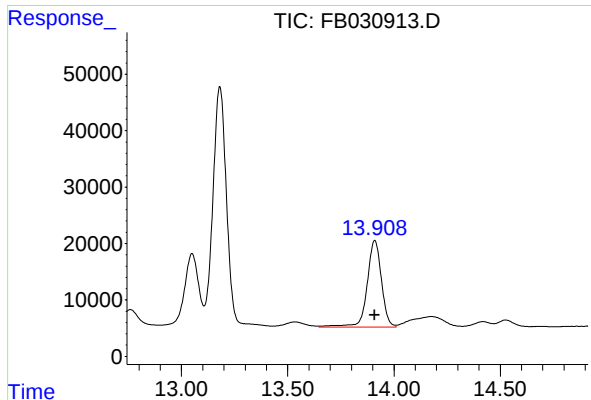
#7 Ethylbenzene

R.T.: 13.050 min
Delta R.T.: 0.000 min
Response: 605900
Conc: 28.94 ng/ml



#8 m-Xylene

R.T.: 13.181 min
Delta R.T.: -0.002 min
Response: 1906131
Conc: 91.87 ng/ml



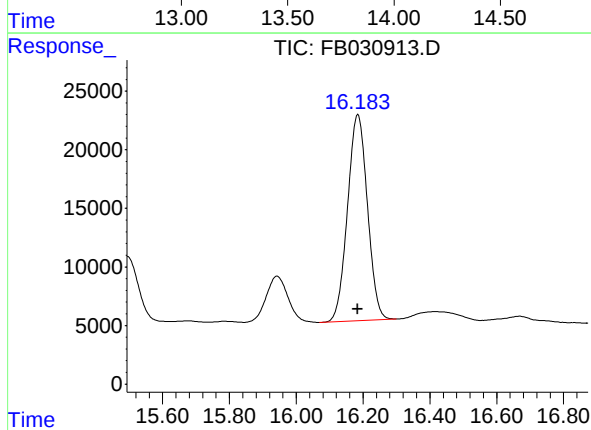
#9 O-Xylene

R.T.: 13.910 min
Delta R.T.: 0.000 min
Response: 714796
Conc: 35.47 ng/ml

Instrument :
FID_B
ClientSampleId :
RR-GAS-WPRE

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/10/2024
Supervised By :Ankita Jodhani 09/10/2024



#10 1,2,4-Trimethylbenzene

R.T.: 16.185 min
Delta R.T.: 0.000 min
Response: 728576
Conc: 36.51 ng/ml

rters

Instrument :

FID_B

ClientSampleId :

RR-GAS-WPRE

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/10/2024

Supervised By :Ankita Jodhani 09/10/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB09092
Data File : FB030913.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 12:57
Sample : P3845-18RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.703	4.513	4.840	PV	3434	267512	12.08%	1.864%
2	5.660	5.499	5.784	PV	627	63434	2.86%	0.442%
3	5.960	5.784	6.223	VV	1646	193528	8.74%	1.349%
4	6.375	6.223	6.561	VV	3131	216399	9.77%	1.508%
5	6.747	6.561	6.764	VV	377	21979	0.99%	0.153%
6	7.128	6.976	7.260	VV	6101	621126	28.05%	4.329%
7	7.398	7.260	7.566	VV	8340	743465	33.57%	5.182%
8	7.745	7.566	7.825	VV	7446	521603	23.55%	3.635%
9	7.880	7.825	7.983	VV	4138	223545	10.09%	1.558%
10	8.070	7.983	8.166	VV	956	69920	3.16%	0.487%
11	8.255	8.166	8.341	VV	868	57858	2.61%	0.403%
12	8.555	8.341	8.677	VV	2173	265482	11.99%	1.850%
13	8.803	8.677	8.971	VV	6160	514876	23.25%	3.588%
14	9.158	8.971	9.257	VV	2699	269997	12.19%	1.882%
15	9.382	9.257	9.537	VV	6856	566902	25.60%	3.951%
16	9.641	9.537	9.943	VV	4438	381797	17.24%	2.661%
17	10.026	9.943	10.067	VV	208	9758	0.44%	0.068%
18	10.188	10.067	10.219	VV	1443	78407	3.54%	0.546%
19	10.301	10.219	10.405	VV	4765	282634	12.76%	1.970%
20	10.471	10.405	10.501	VV	1136	58607	2.65%	0.408%
21	10.615	10.501	10.737	VV	47454	2214497	100.00%	15.434%
22	10.787	10.737	10.866	VV	950	55147	2.49%	0.384%
23	10.960	10.866	11.086	VV	1084	95787	4.33%	0.668%
24	11.164	11.086	11.333	VV	858	71886	3.25%	0.501%
25	11.403	11.333	11.498	VV	200	15731	0.71%	0.110%
26	11.762	11.498	11.805	VV	1933	165890	7.49%	1.156%
27	11.875	11.805	11.980	VV	3437	196292	8.86%	1.368%
28	12.091	11.980	12.246	VV	2530	154032	6.96%	1.074%
29	12.338	12.246	12.436	VV	486	31517	1.42%	0.220%
30	12.497	12.436	12.577	VV	125	8716	0.39%	0.061%
31	12.760	12.577	12.902	VV	3095	187064	8.45%	1.304%
32	13.050	12.902	13.108	VV	13015	610317	27.56%	4.254%
33	13.181	13.108	13.437	VV	42625	1901360	85.86%	13.251%
34	13.534	13.437	13.648	VV	902	59834	2.70%	0.417%
35	13.910	13.648	14.011	VV	15371	714843	32.28%	4.982%
36	14.177	14.011	14.320	VV	1832	196895	8.89%	1.372%

					rters			
37	14.420	14.320	14.472	VV	934	50865	2.30%	0.355%
38	14.526	14.472	14.647	VV	1214	62072		
39	14.696	14.647	14.767	VV	88	3684		
40	15.061	14.767	15.130	VV	1359	79347		
41	15.219	15.130	15.302	VV	3885	183610		
42	15.398	15.302	15.467	VV	14455	718238		
43	15.494	15.467	15.630	VV	5676	222893	10.07%	1.553%
44	15.673	15.630	15.737	VV	139	6245	0.28%	0.044%
45	15.788	15.737	15.847	VV	112	4267	0.19%	0.030%
46	15.943	15.847	16.069	VV	3961	179868	8.12%	1.254%
47	16.185	16.069	16.302	PV	17611	728643	32.90%	5.078%
Sum of corrected areas:						14348366		

Instrument :
FID_B
ClientSampleId :
RR-GAS-WPRE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/10/2024
Supervised By :Ankita Jodhani 09/10/2024

FB082724.M Tue Sep 10 09:13:25 2024



CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Waste Water PT
Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Calibration Sequence : FB082724		Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID
45	823693	18304	FB030884.D
90	1873410	20816	FB030885.D
180	3671455	20397	FB030886.D
450	9039140	20087	FB030887.D
900	17824073	19805	FB030888.D
AVG RF : 19882		% RSD : 4.821	AVG RT : 8.7856

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Waste Water PT
Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845
DataFile: FB030908.D Analyst Name: YP/AJ Analyst Date: 09-09-2024

Conc. (PPB)	Area Count	RF	Average RF	%D
180	3812731	21182	19882	6.539

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
 Data File : FB030908.D
 Signal(s) : FID2B.CH
 Acq On : 9 Sep 2024 9:44
 Operator : YP/AJ
 Sample : 20 PPB GRO STD
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 PPB GRO STD

Integration File: Calibration.e
 Quant Time: Sep 10 04:29:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
 Quant Title :
 QLast Update : Tue Aug 27 11:54:45 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.783	234604	19.390 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.701	605446	33.882 ng/ml
2) t 2,2,4-Trimethylpentane	7.406	573273	31.267 ng/ml
3) t n-Heptane	7.742	214275	11.586 ng/ml
4) t Benzene	7.878	240521	10.646 ng/ml
6) t Toluene	10.611	697091	31.917 ng/ml
7) t Ethylbenzene	13.047	222981	10.652 ng/ml
8) t m-Xylene	13.180	436311	21.028 ng/ml
9) t O-Xylene	13.907	410832	20.384 ng/ml
10) t 1,2,4-Trimethylbenzene	16.182	412001	20.648 ng/ml

(f)=RT Delta > 1/2 Window

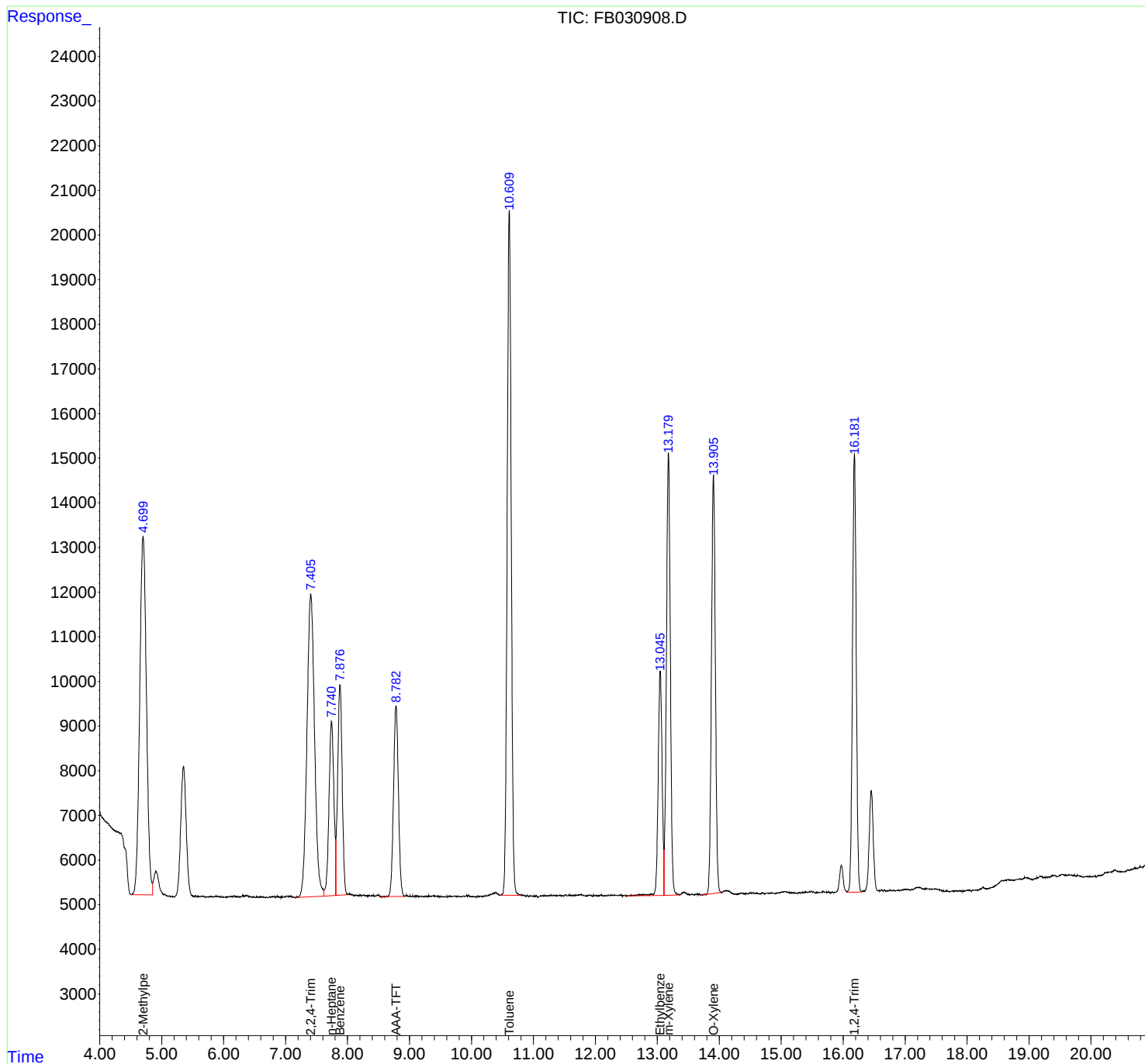
(m)=manual int.

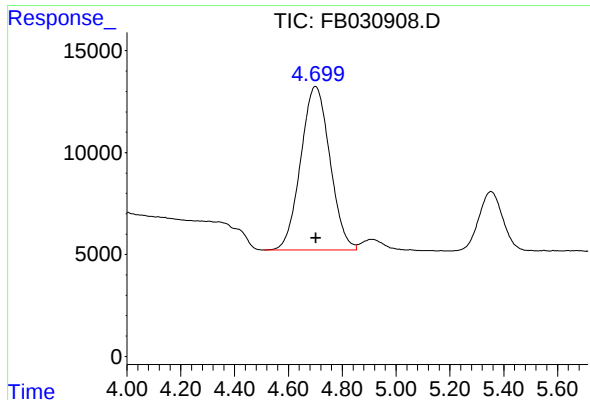
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030908.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 9:44
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Sep 10 04:29:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

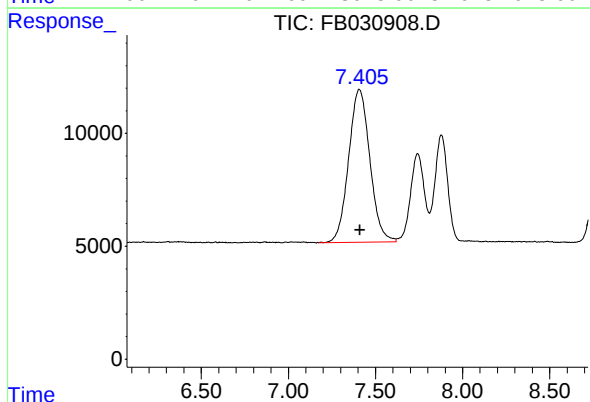




#1 2-Methylpentane

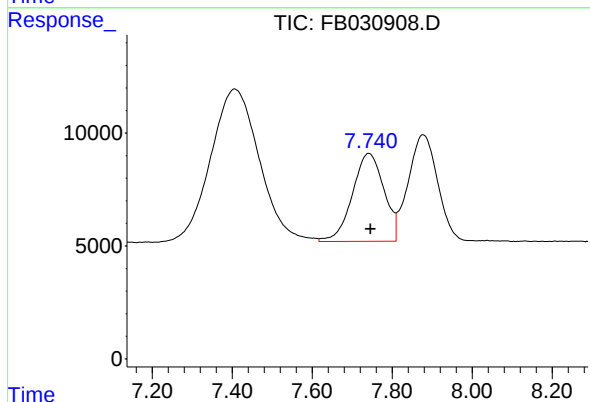
R.T.: 4.701 min
Delta R.T.: -0.001 min
Response: 605446
Conc: 33.88 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



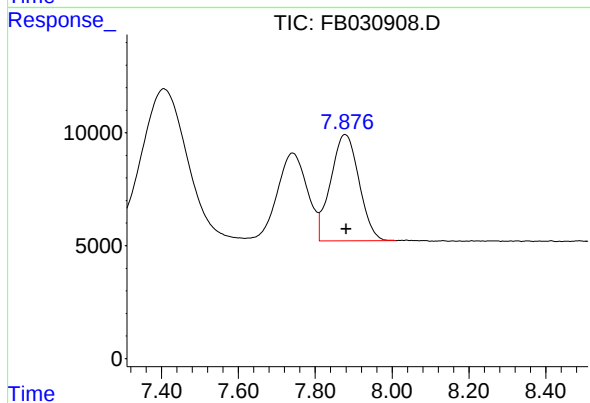
#2 2,2,4-Trimethylpentane

R.T.: 7.406 min
Delta R.T.: -0.005 min
Response: 573273
Conc: 31.27 ng/ml



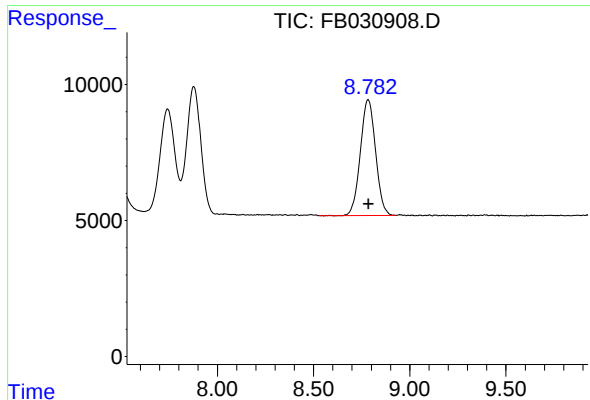
#3 n-Heptane

R.T.: 7.742 min
Delta R.T.: -0.005 min
Response: 214275
Conc: 11.59 ng/ml



#4 Benzene

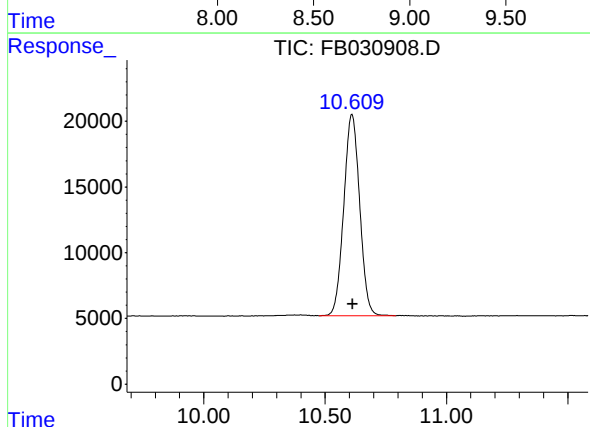
R.T.: 7.878 min
Delta R.T.: -0.003 min
Response: 240521
Conc: 10.65 ng/ml



#5 AAA-TFT

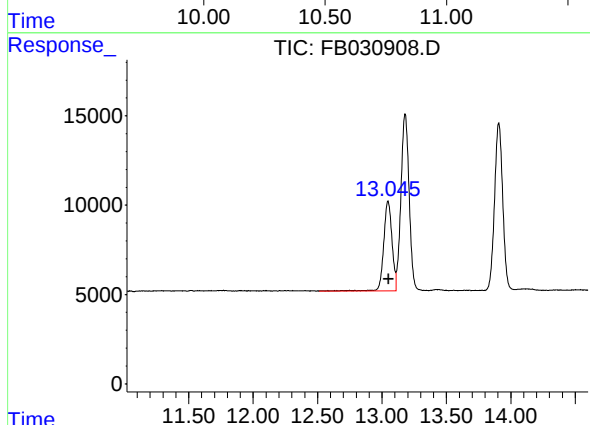
R.T.: 8.783 min
Delta R.T.: -0.003 min
Response: 234604
Conc: 19.39 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



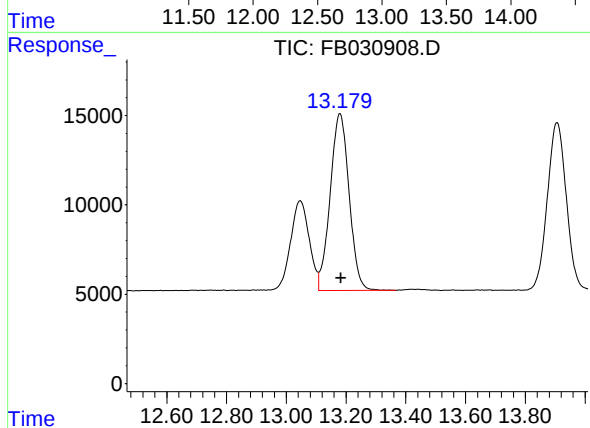
#6 Toluene

R.T.: 10.611 min
Delta R.T.: -0.004 min
Response: 697091
Conc: 31.92 ng/ml



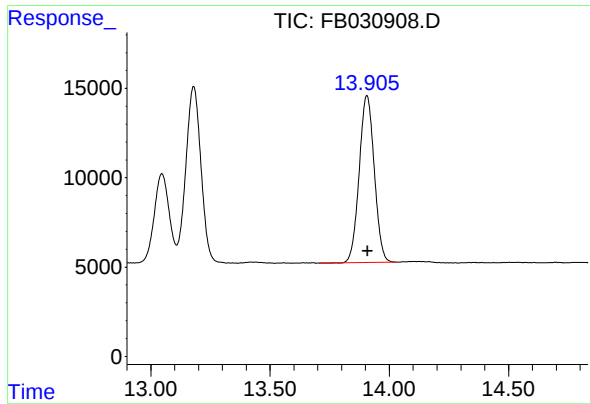
#7 Ethylbenzene

R.T.: 13.047 min
Delta R.T.: -0.003 min
Response: 222981
Conc: 10.65 ng/ml



#8 m-Xylene

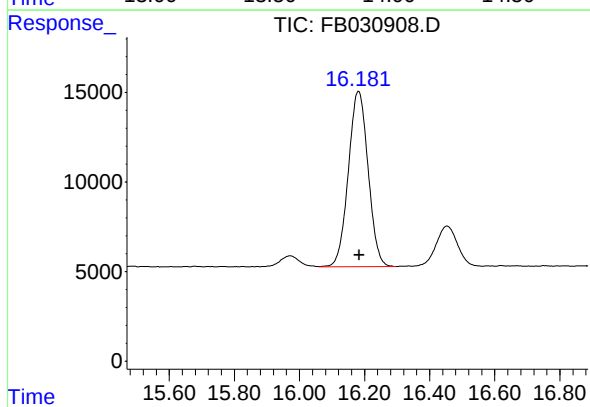
R.T.: 13.180 min
Delta R.T.: -0.003 min
Response: 436311
Conc: 21.03 ng/ml



#9 O-Xylene

R.T.: 13.907 min
Delta R.T.: -0.003 min
Response: 410832
Conc: 20.38 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.182 min
Delta R.T.: -0.002 min
Response: 412001
Conc: 20.65 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030908.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 9:44
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.701	4.507	4.852	PV	8028	605446	86.85%	14.959%
2	7.406	7.175	7.617	PV	6785	573273	82.24%	14.164%
3	7.742	7.617	7.810	VV	3900	214275	30.74%	5.294%
4	7.878	7.810	8.011	VV	4717	240521	34.50%	5.943%
5	8.783	8.528	8.928	BV	4271	234604	33.65%	5.796%
6	10.611	10.474	10.791	BV	15327	697091	100.00%	17.223%
7	13.047	12.511	13.108	BV	5025	222981	31.99%	5.509%
8	13.180	13.108	13.366	VV	9902	436311	62.59%	10.780%
9	13.907	13.705	14.028	BV	9356	410832	58.94%	10.151%
10	16.182	16.060	16.297	VV	9792	412001	59.10%	10.180%

Sum of corrected areas: 4047334

FB082724.M Tue Sep 10 05:23:56 2024

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Waste Water PT
Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845
DataFile: FB030916.D Analyst Name: YP/AJ Analyst Date: 09-09-2024

Conc. (PPB)	Area Count	RF	Average RF	%D
180	3601397	20008	19882	0.634

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
 Data File : FB030916.D
 Signal(s) : FID2B.CH
 Acq On : 9 Sep 2024 16:50
 Operator : YP/AJ
 Sample : 20 PPB GRO STD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 PPB GRO STD

Integration File: Calibration.e
 Quant Time: Sep 10 04:30:23 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
 Quant Title :
 QLast Update : Tue Aug 27 11:54:45 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.787	233860	19.329 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.705	554105	31.009 ng/ml
2) t 2,2,4-Trimethylpentane	7.413	555062	30.273 ng/ml
3) t n-Heptane	7.747	198642	10.741 ng/ml
4) t Benzene	7.883	229067	10.139 ng/ml
6) t Toluene	10.616	660425	30.238 ng/ml
7) t Ethylbenzene	13.052	208183	9.945 ng/ml
8) t m-Xylene	13.184	413852	19.946 ng/ml
9) t O-Xylene	13.912	392734	19.486 ng/ml
10) t 1,2,4-Trimethylbenzene	16.187	389327	19.511 ng/ml

(f)=RT Delta > 1/2 Window

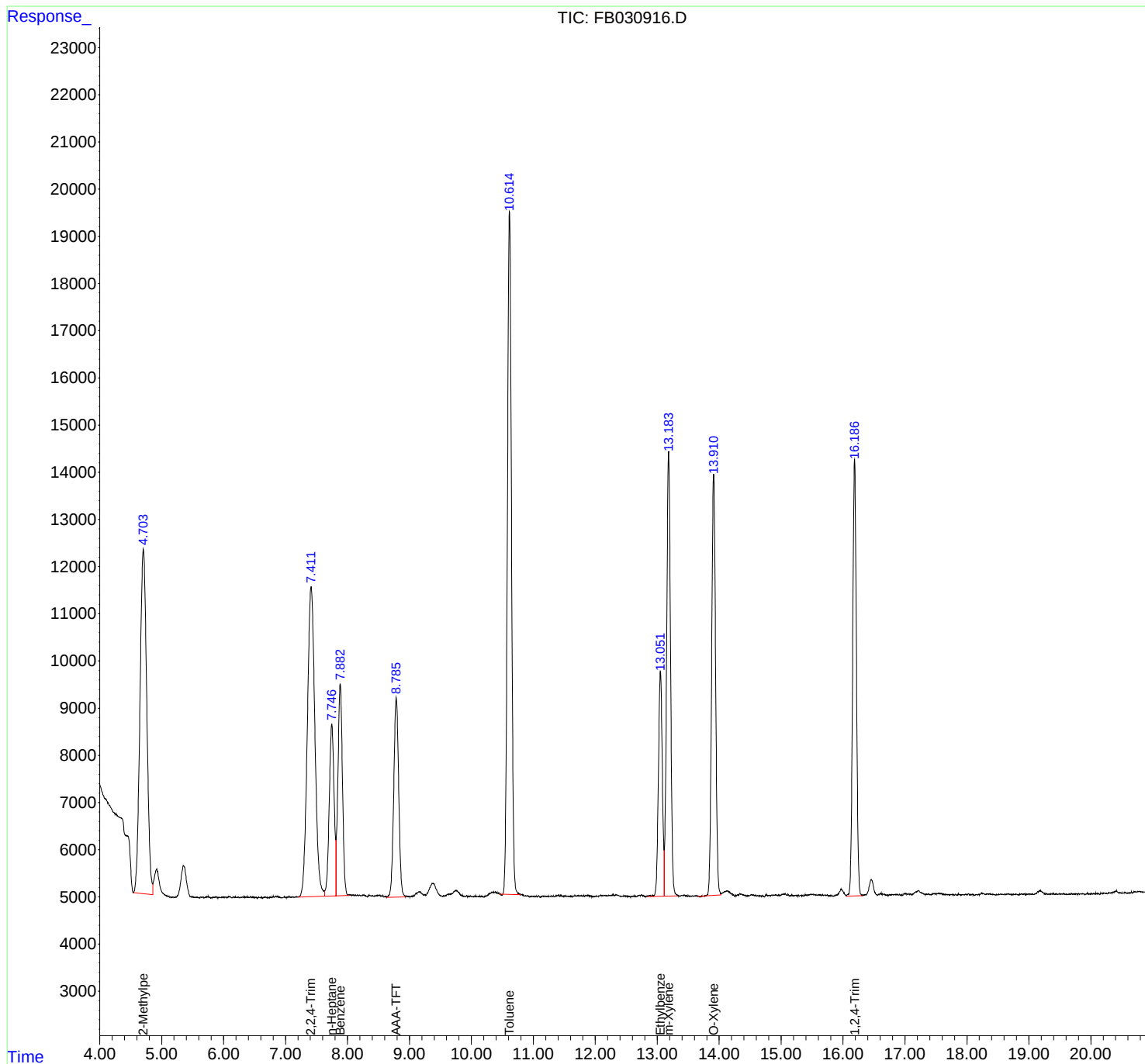
(m)=manual int.

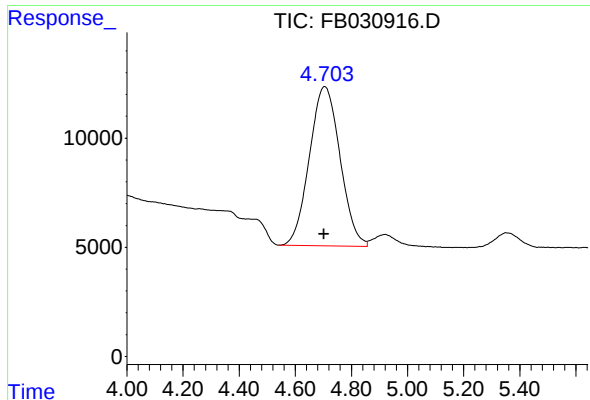
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030916.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 16:50
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Sep 10 04:30:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

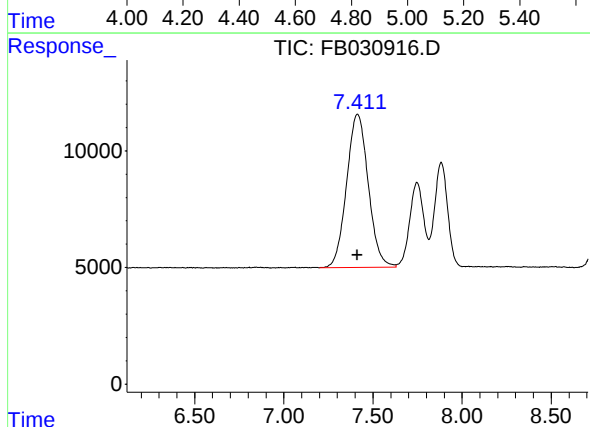




#1 2-Methylpentane

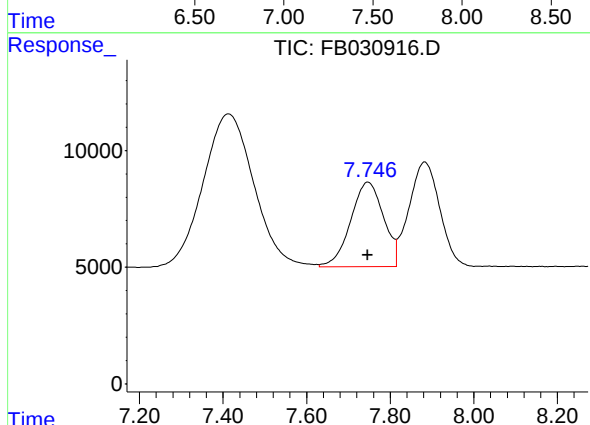
R.T.: 4.705 min
Delta R.T.: 0.003 min
Response: 554105
Conc: 31.01 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



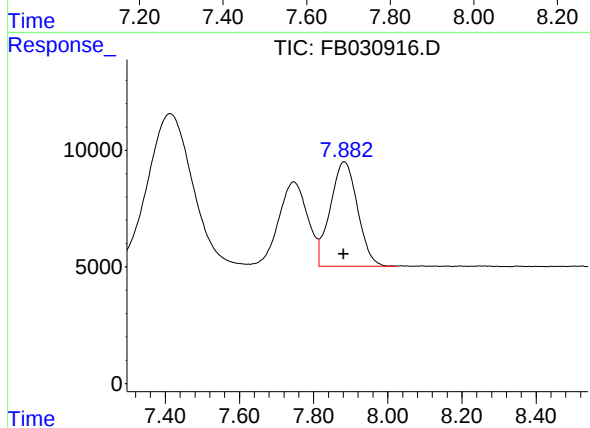
#2 2,2,4-Trimethylpentane

R.T.: 7.413 min
Delta R.T.: 0.002 min
Response: 555062
Conc: 30.27 ng/ml



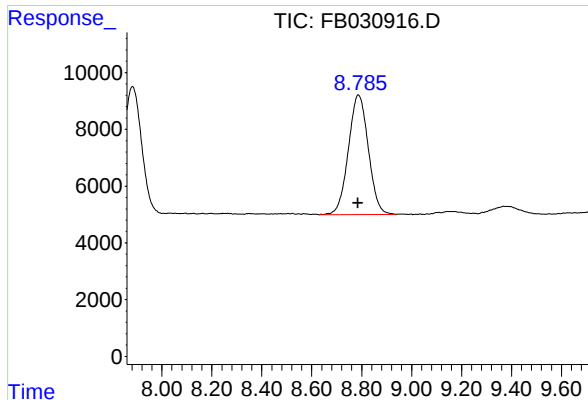
#3 n-Heptane

R.T.: 7.747 min
Delta R.T.: 0.000 min
Response: 198642
Conc: 10.74 ng/ml



#4 Benzene

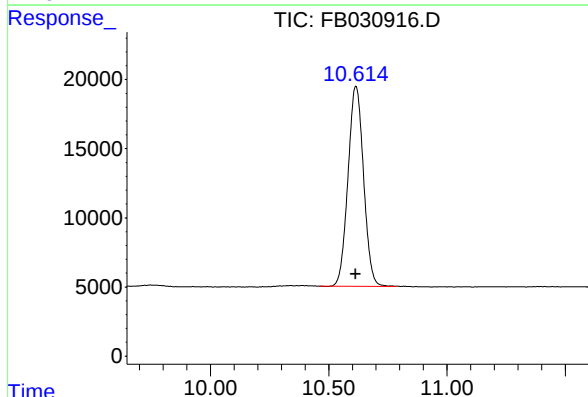
R.T.: 7.883 min
Delta R.T.: 0.002 min
Response: 229067
Conc: 10.14 ng/ml



#5 AAA-TFT

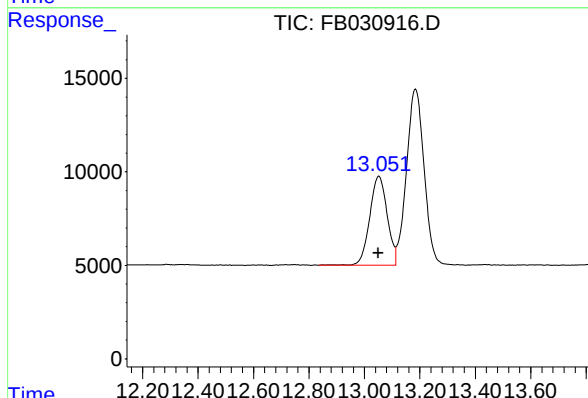
R.T.: 8.787 min
Delta R.T.: 0.000 min
Response: 233860
Conc: 19.33 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



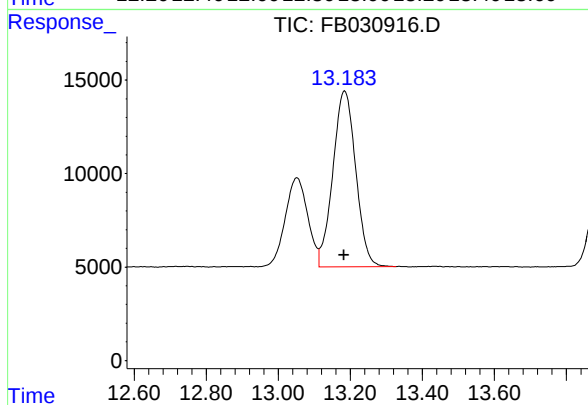
#6 Toluene

R.T.: 10.616 min
Delta R.T.: 0.001 min
Response: 660425
Conc: 30.24 ng/ml



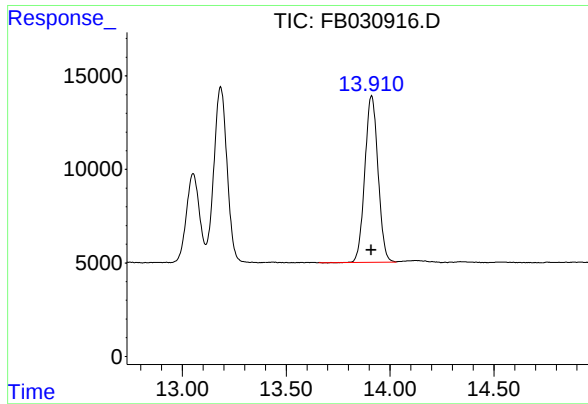
#7 Ethylbenzene

R.T.: 13.052 min
Delta R.T.: 0.002 min
Response: 208183
Conc: 9.94 ng/ml



#8 m-Xylene

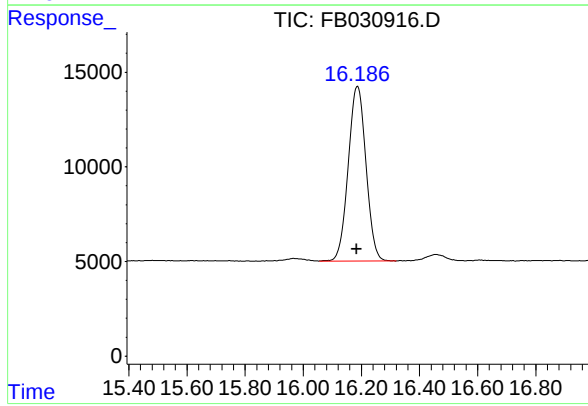
R.T.: 13.184 min
Delta R.T.: 0.002 min
Response: 413852
Conc: 19.95 ng/ml



#9 O-Xylene

R.T.: 13.912 min
Delta R.T.: 0.002 min
Response: 392734
Conc: 19.49 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.187 min
Delta R.T.: 0.003 min
Response: 389327
Conc: 19.51 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030916.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 16:50
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.705	4.541	4.856	PV	7301	554105	83.90%	14.448%
2	7.413	7.198	7.630	BV	6572	555062	84.05%	14.473%
3	7.747	7.630	7.815	VV	3634	198642	30.08%	5.179%
4	7.883	7.815	8.022	VV	4489	229067	34.68%	5.973%
5	8.787	8.629	8.938	PV	4227	233860	35.41%	6.098%
6	10.616	10.460	10.786	BV	14472	660425	100.00%	17.220%
7	13.052	12.835	13.113	PV	4765	208183	31.52%	5.428%
8	13.184	13.113	13.327	VV	9417	413852	62.66%	10.791%
9	13.912	13.658	14.029	BV	8918	392734	59.47%	10.240%
10	16.187	16.055	16.320	PV	9244	389327	58.95%	10.151%

Sum of corrected areas: 3835256

FB082724.M Tue Sep 10 05:32:33 2024

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P3845

Project: NJ Waste Water PT

Instrument ID: FID_B

GC Column: RTX-502.2 ID: 0.53 (mm)

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION 8.7856					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	9 Sep 2024 9:44	FB030908.D	8.783	
VBF0909W1	VBF0909W1	9 Sep 2024 10:22	FB030909.D	8.785	
BSF0909W1	BSF0909W1	9 Sep 2024 11:01	FB030910.D	8.786	
RR-GAS-WP	P3845-18	9 Sep 2024 11:40	FB030911.D	8.800	
RR-GAS-WP	P3845-18RE	9 Sep 2024 12:57	FB030913.D	8.803	
BSF0909W2	BSF0909W2	9 Sep 2024 14:14	FB030915.D	8.787	
20 PPB GRO STD	20 PPB GRO STD	9 Sep 2024 16:50	FB030916.D	8.787	



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VBF0909W1	SDG No.:	P3845
Lab Sample ID:	VBF0909W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB030909.D	1	09/09/24 10:22	FB090924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	6.00	U	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.0		50 - 150	105%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030909.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 10:22
Operator : YP/AJ
Sample : VBF0909W1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0909W1

Integration File: Calibration.e
Quant Time: Sep 10 04:29:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.785	254334	21.021 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

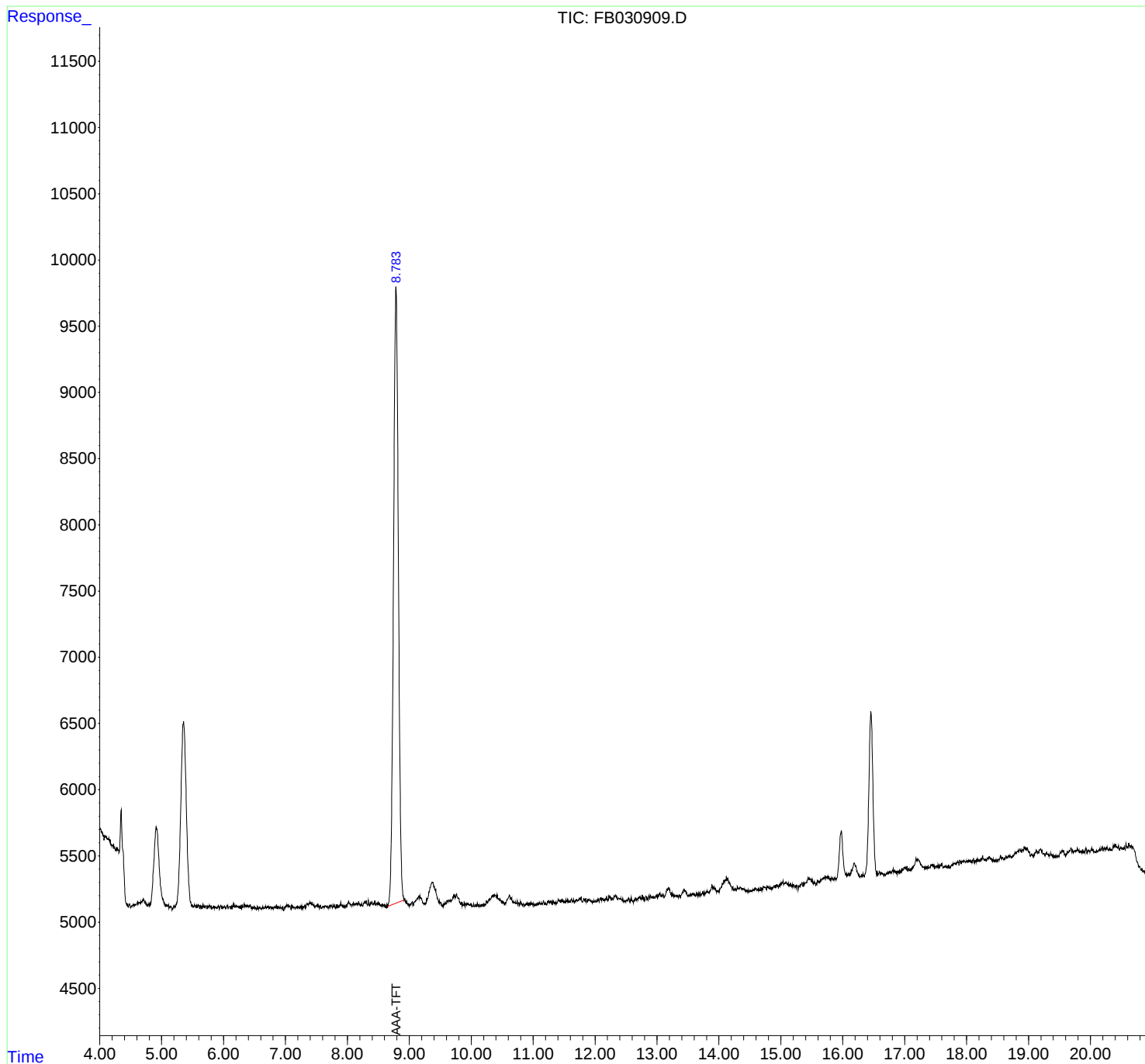
(m)=manual int.

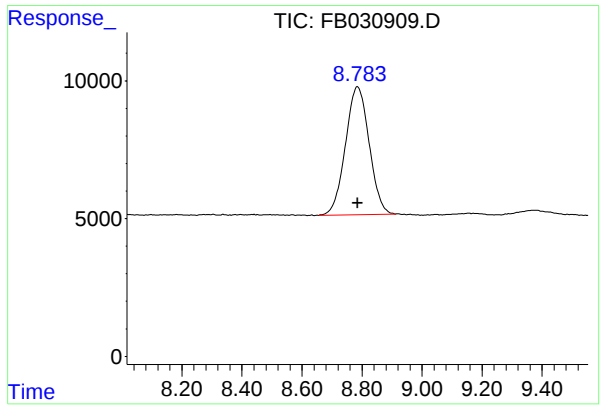
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030909.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 10:22
Operator : YP/AJ
Sample : VBF0909W1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0909W1

Integration File: Calibration.e
Quant Time: Sep 10 04:29:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.: 8.785 min
Delta R.T.: -0.001 min
Response: 254334
Conc: 21.02 ng/ml

Instrument :
FID_B
ClientSampleId :
VBF0909W1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030909.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 10:22
Sample : VBF0909W1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.785	8.656	8.913	PV	4652	254334	100.00%	100.000%
Sum of corrected areas:						254334		

FB082724.M Tue Sep 10 05:24:25 2024

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	BSF0909W1	SDG No.:	P3845
Lab Sample ID:	BSF0909W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB030910.D	1	09/09/24 11:01	FB090924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	202		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.6		50 - 150	88%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
 Data File : FB030910.D
 Signal(s) : FID2B.CH
 Acq On : 9 Sep 2024 11:01
 Operator : YP/AJ
 Sample : BSF0909W1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF0909W1

Integration File: Calibration.e
 Quant Time: Sep 10 04:29:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
 Quant Title :
 QLast Update : Tue Aug 27 11:54:45 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.786	212482	17.562 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.705	590458	33.043 ng/ml
2) t 2,2,4-Trimethylpentane	7.409	659652	35.978 ng/ml
3) t n-Heptane	7.743	189175	10.229 ng/ml
4) t Benzene	7.880	238302	10.547 ng/ml
6) t Toluene	10.613	683447	31.292 ng/ml
7) t Ethylbenzene	13.049	228419	10.911 ng/ml
8) t m-Xylene	13.182	467102	22.512 ng/ml
9) t O-Xylene	13.909	467095	23.176 ng/ml
10) t 1,2,4-Trimethylbenzene	16.183	493932	24.754 ng/ml

(f)=RT Delta > 1/2 Window

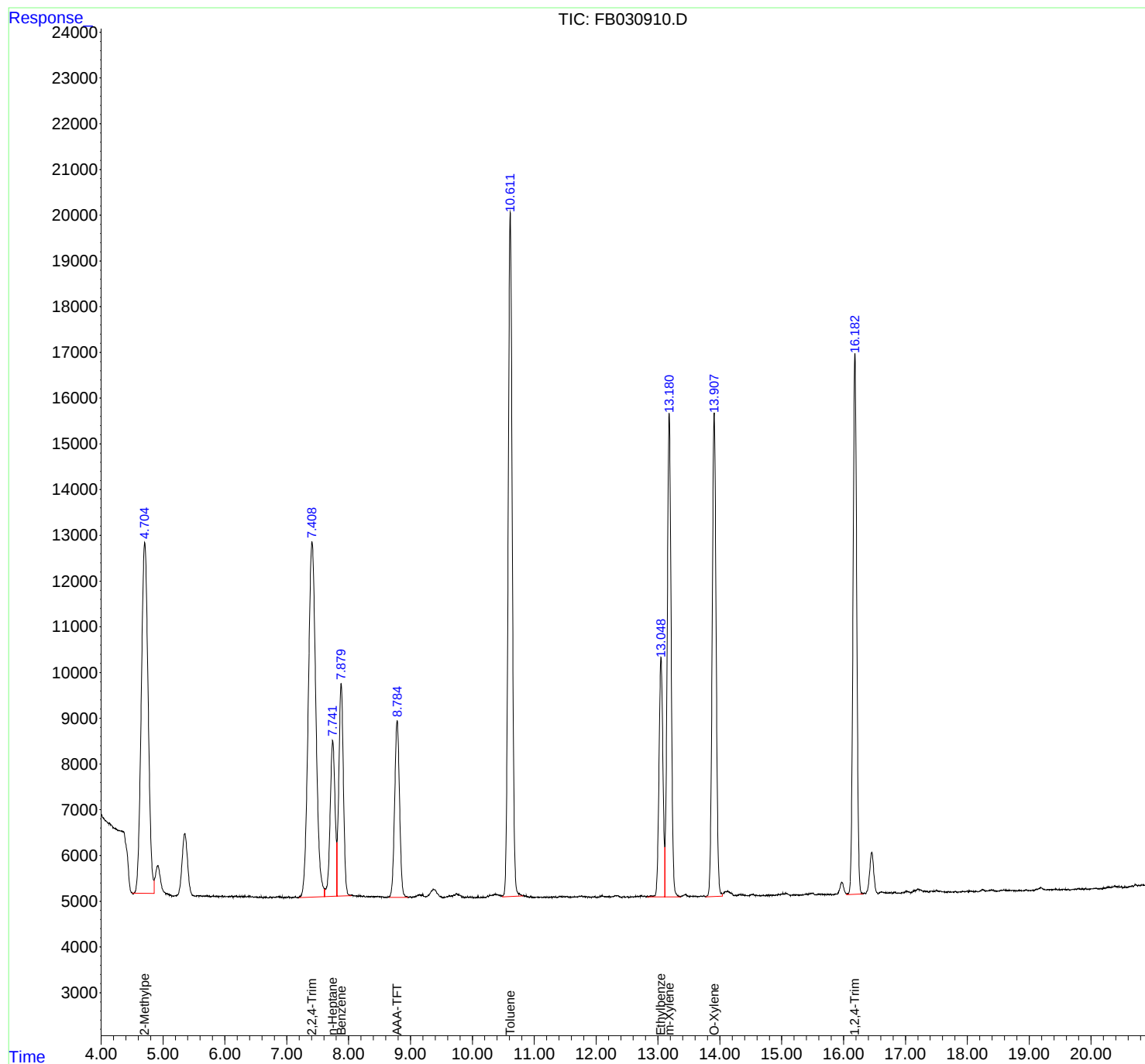
(m)=manual int.

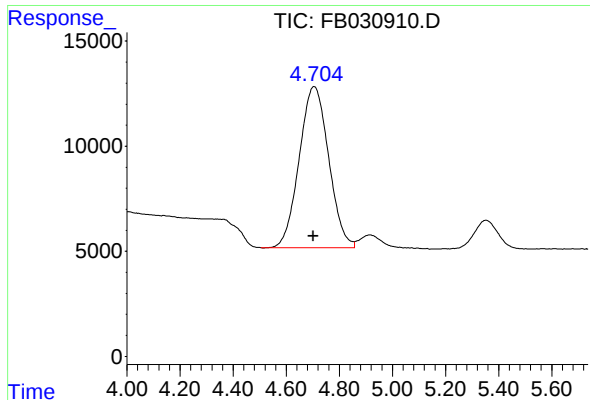
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030910.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 11:01
Operator : YP/AJ
Sample : BSF0909W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0909W1

Integration File: Calibration.e
Quant Time: Sep 10 04:29:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

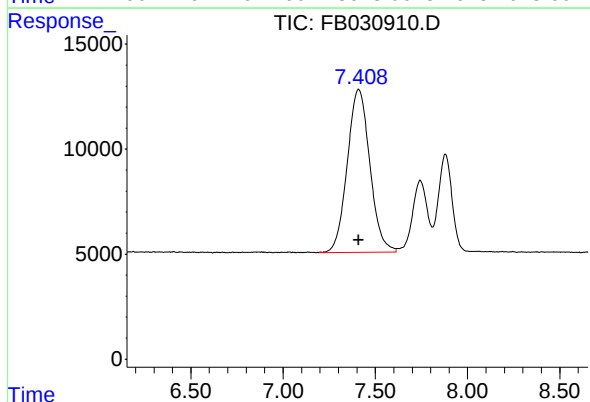




#1 2-Methylpentane

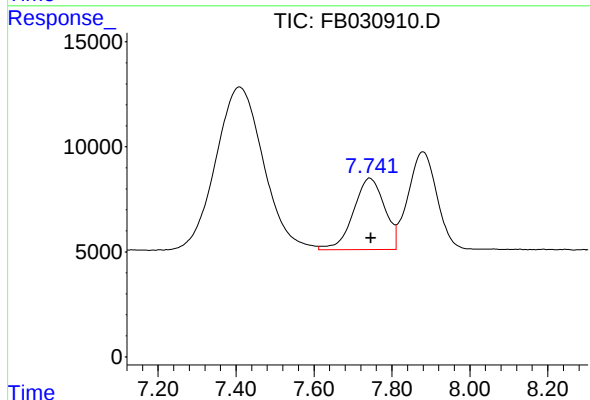
R.T.: 4.705 min
Delta R.T.: 0.003 min
Response: 590458
Conc: 33.04 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0909W1



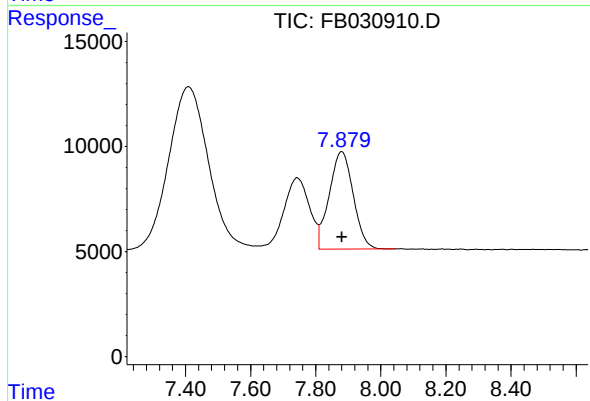
#2 2,2,4-Trimethylpentane

R.T.: 7.409 min
Delta R.T.: -0.002 min
Response: 659652
Conc: 35.98 ng/ml



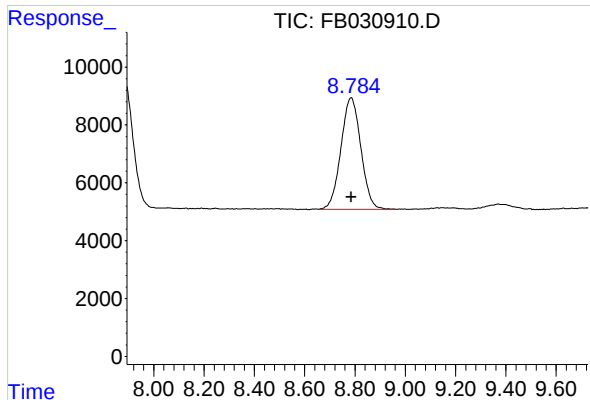
#3 n-Heptane

R.T.: 7.743 min
Delta R.T.: -0.003 min
Response: 189175
Conc: 10.23 ng/ml



#4 Benzene

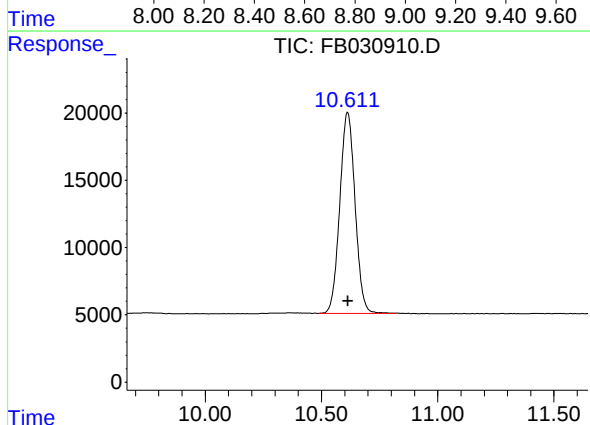
R.T.: 7.880 min
Delta R.T.: -0.001 min
Response: 238302
Conc: 10.55 ng/ml



#5 AAA-TFT

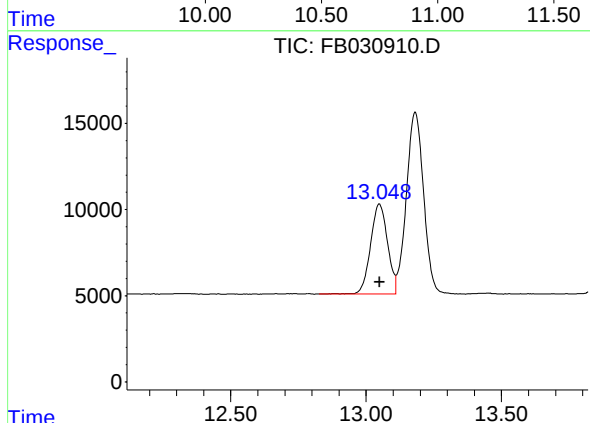
R.T.: 8.786 min
Delta R.T.: 0.000 min
Response: 212482
Conc: 17.56 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0909W1



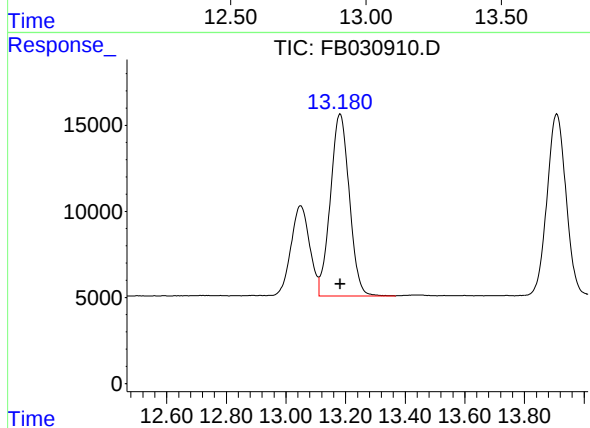
#6 Toluene

R.T.: 10.613 min
Delta R.T.: -0.002 min
Response: 683447
Conc: 31.29 ng/ml



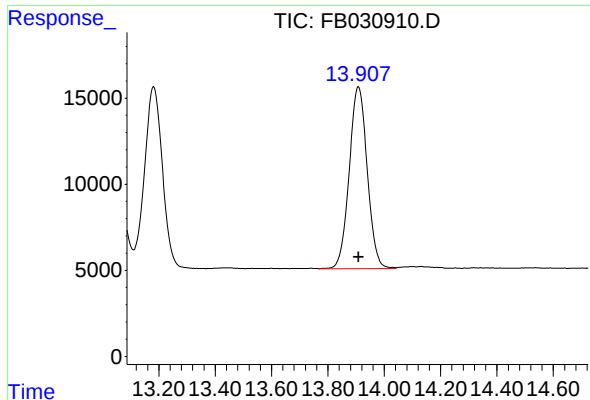
#7 Ethylbenzene

R.T.: 13.049 min
Delta R.T.: 0.000 min
Response: 228419
Conc: 10.91 ng/ml



#8 m-Xylene

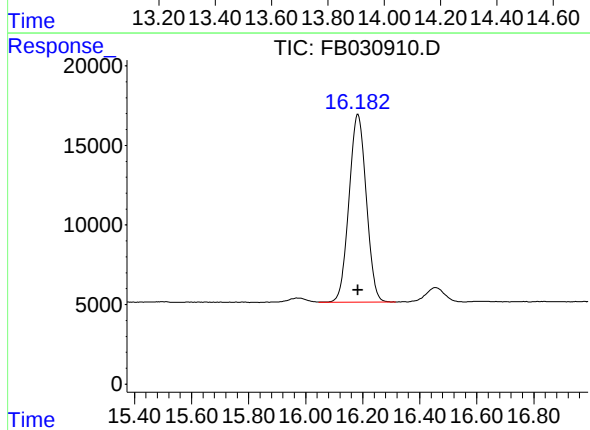
R.T.: 13.182 min
Delta R.T.: 0.000 min
Response: 467102
Conc: 22.51 ng/ml



#9 O-Xylene

R.T.: 13.909 min
Delta R.T.: 0.000 min
Response: 467095
Conc: 23.18 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0909W1



#10 1,2,4-Trimethylbenzene

R.T.: 16.183 min
Delta R.T.: 0.000 min
Response: 493932
Conc: 24.75 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030910.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 11:01
Sample : BSF0909W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.705	4.504	4.856	BV	7673	590458	86.39%	13.959%
2	7.409	7.195	7.612	PV	7769	659652	96.52%	15.594%
3	7.743	7.612	7.810	VV	3407	189175	27.68%	4.472%
4	7.880	7.810	8.047	VV	4642	238302	34.87%	5.634%
5	8.786	8.657	8.963	PV	3861	212482	31.09%	5.023%
6	10.613	10.488	10.819	VV	14955	683447	100.00%	16.157%
7	13.049	12.826	13.110	BV	5240	228419	33.42%	5.400%
8	13.182	13.110	13.369	VV	10570	467102	68.35%	11.042%
9	13.909	13.769	14.042	PV	10564	467095	68.34%	11.042%
10	16.183	16.046	16.316	VV	11828	493932	72.27%	11.677%

Sum of corrected areas: 4230064

FB082724.M Tue Sep 10 05:24:56 2024

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	BSF0909W2	SDG No.:	P3845
Lab Sample ID:	BSF0909W2	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB030915.D	1	09/09/24 14:14	FB090924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	202		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.6		50 - 150	78%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
 Data File : FB030915.D
 Signal(s) : FID2B.CH
 Acq On : 9 Sep 2024 14:14
 Operator : YP/AJ
 Sample : BSF0909W2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF0909W2

Integration File: Calibration.e
 Quant Time: Sep 10 04:30:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
 Quant Title :
 QLast Update : Tue Aug 27 11:54:45 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.787	189246	15.641 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.709	615039	34.419 ng/ml
2) t 2,2,4-Trimethylpentane	7.413	664511	36.243 ng/ml
3) t n-Heptane	7.745	200931	10.865 ng/ml
4) t Benzene	7.882	241223	10.677 ng/ml
6) t Toluene	10.615	701767	32.131 ng/ml
7) t Ethylbenzene	13.051	224357	10.717 ng/ml
8) t m-Xylene	13.184	456266	21.990 ng/ml
9) t O-Xylene	13.911	445733	22.116 ng/ml
10) t 1,2,4-Trimethylbenzene	16.185	460874	23.097 ng/ml

(f)=RT Delta > 1/2 Window

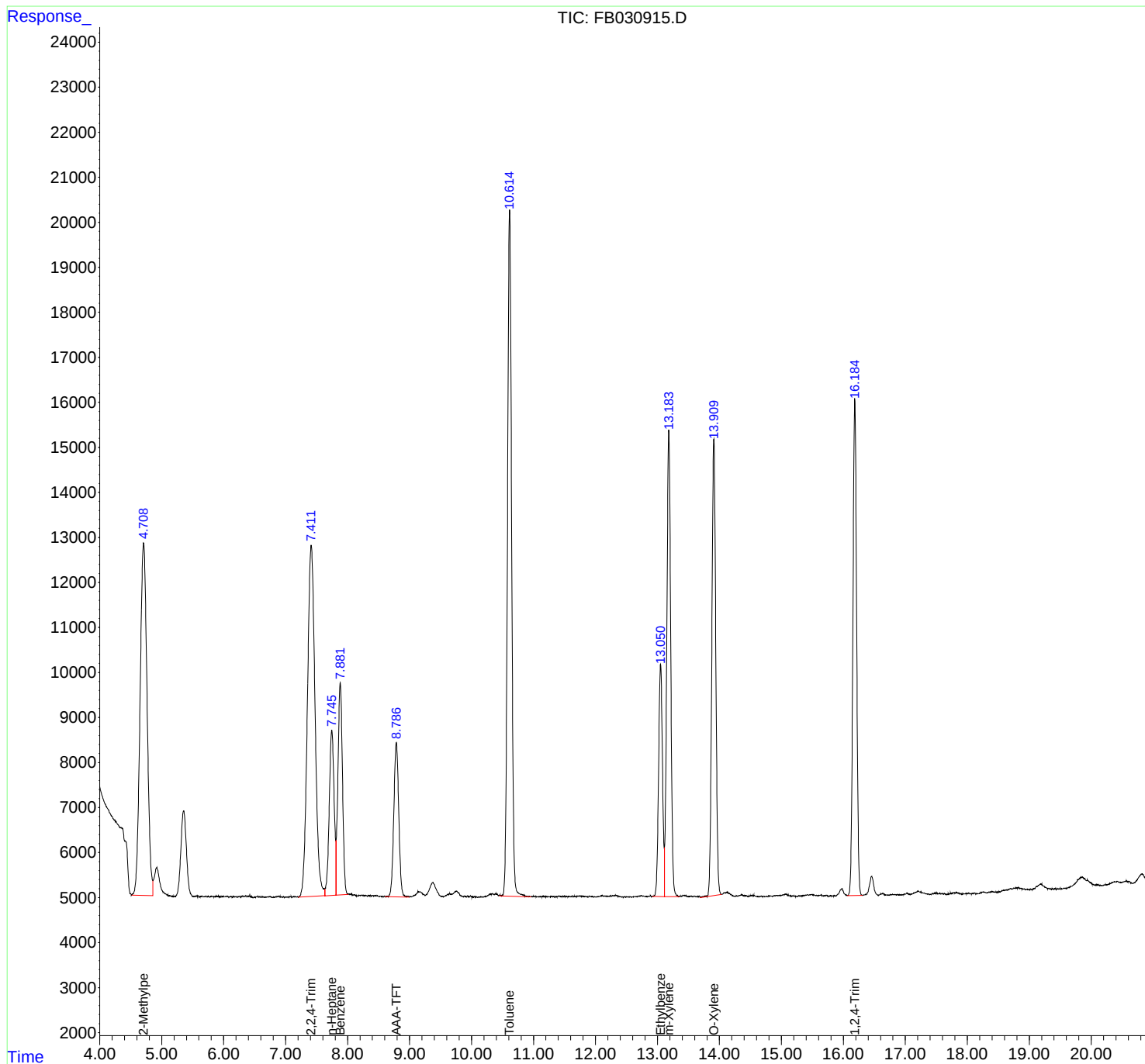
(m)=manual int.

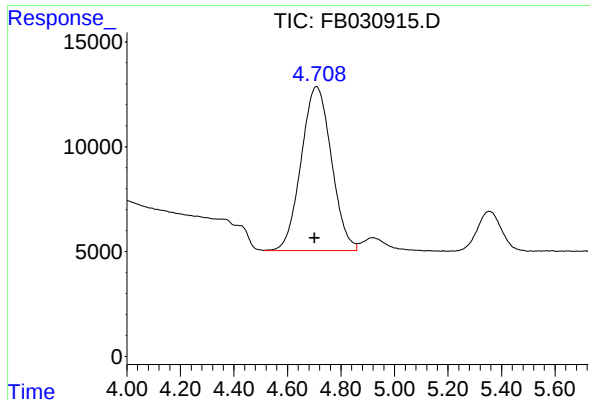
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030915.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 14:14
Operator : YP/AJ
Sample : BSF0909W2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0909W2

Integration File: Calibration.e
Quant Time: Sep 10 04:30:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Quant Title :
QLast Update : Tue Aug 27 11:54:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

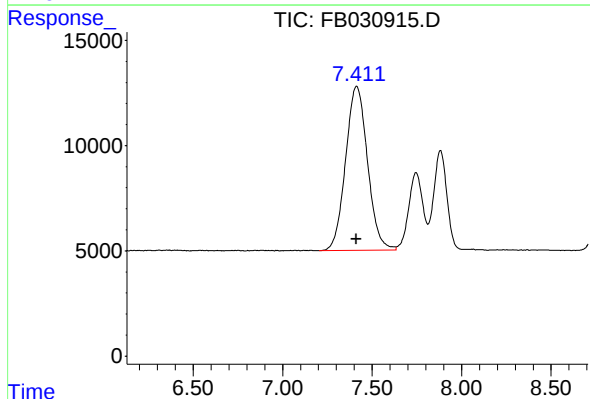




#1 2-Methylpentane

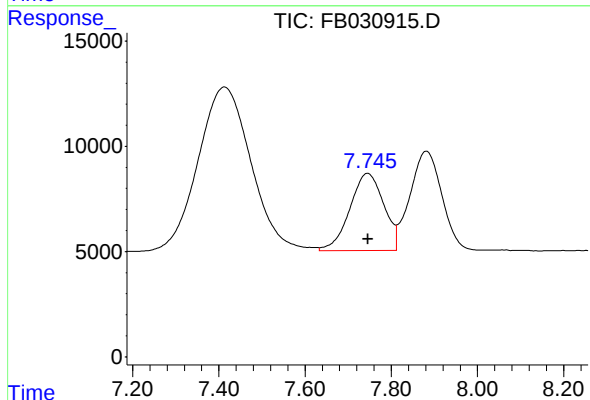
R.T.: 4.709 min
Delta R.T.: 0.007 min
Response: 615039
Conc: 34.42 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0909W2



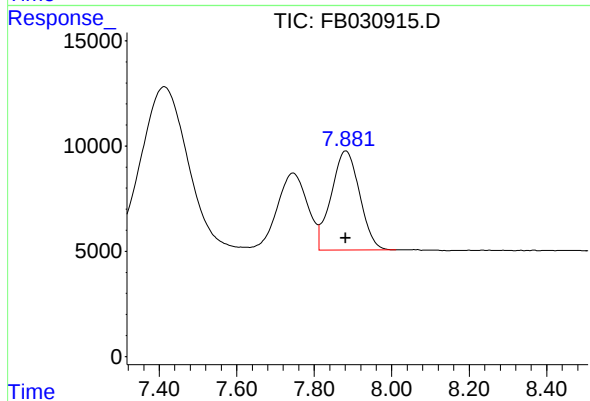
#2 2,2,4-Trimethylpentane

R.T.: 7.413 min
Delta R.T.: 0.002 min
Response: 664511
Conc: 36.24 ng/ml



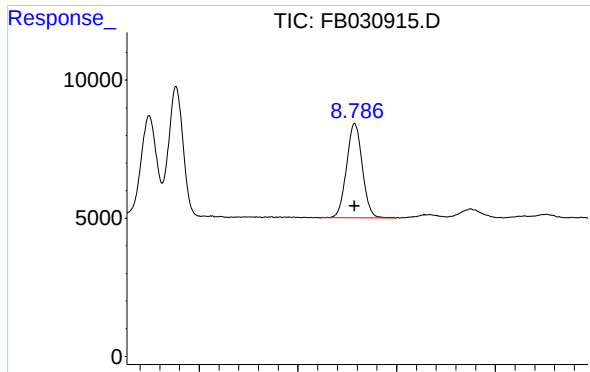
#3 n-Heptane

R.T.: 7.745 min
Delta R.T.: 0.000 min
Response: 200931
Conc: 10.86 ng/ml



#4 Benzene

R.T.: 7.882 min
Delta R.T.: 0.000 min
Response: 241223
Conc: 10.68 ng/ml



#5 AAA-TFT

R.T.: 8.787 min
Delta R.T.: 0.000 min
Response: 189246
Conc: 15.64 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0909W2

#6 Toluene

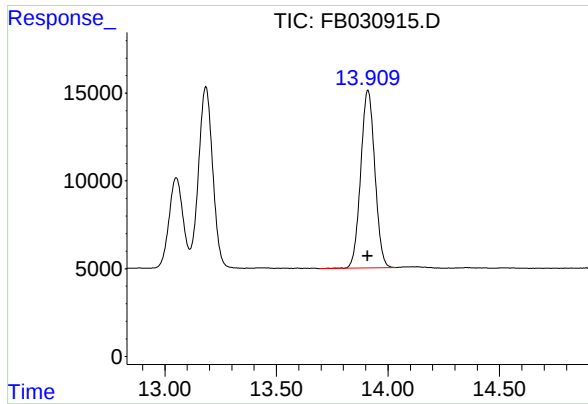
R.T.: 10.615 min
Delta R.T.: 0.000 min
Response: 701767
Conc: 32.13 ng/ml

#7 Ethylbenzene

R.T.: 13.051 min
Delta R.T.: 0.001 min
Response: 224357
Conc: 10.72 ng/ml

#8 m-Xylene

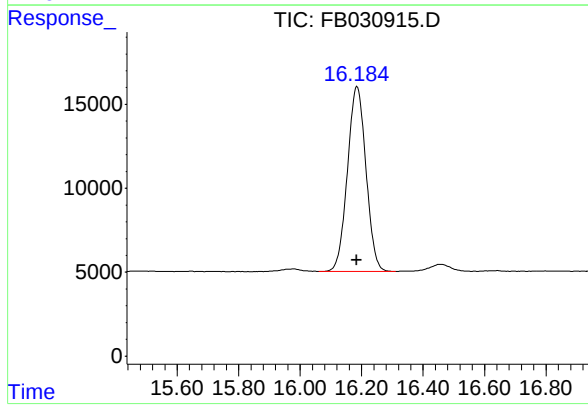
R.T.: 13.184 min
Delta R.T.: 0.001 min
Response: 456266
Conc: 21.99 ng/ml



#9 O-Xylene

R.T.: 13.911 min
Delta R.T.: 0.001 min
Response: 445733
Conc: 22.12 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0909W2



#10 1,2,4-Trimethylbenzene

R.T.: 16.185 min
Delta R.T.: 0.001 min
Response: 460874
Conc: 23.10 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB090924\
Data File : FB030915.D
Signal(s) : FID2B.CH
Acq On : 9 Sep 2024 14:14
Sample : BSF0909W2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082724.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.709	4.512	4.859	PV	7833	615039	87.64%	14.644%
2	7.413	7.204	7.633	BV	7806	664511	94.69%	15.822%
3	7.746	7.633	7.812	VV	3674	200931	28.63%	4.784%
4	7.882	7.812	8.011	VV	4716	241223	34.37%	5.743%
5	8.787	8.606	8.996	BV	3425	189246	26.97%	4.506%
6	10.615	10.452	10.964	BB	15236	701767	100.00%	16.709%
7	13.051	12.915	13.112	BV	5159	224357	31.97%	5.342%
8	13.184	13.112	13.358	VB	10364	456266	65.02%	10.864%
9	13.911	13.692	14.037	PV	10136	445733	63.52%	10.613%
10	16.185	16.060	16.311	PV	11028	460874	65.67%	10.973%

Sum of corrected areas: 4199949

FB082724.M Tue Sep 10 05:32:02 2024

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P3845-18RE		FB030913.D	FB090924	2-Methylpentane	Ankita	9/10/2024 1:06:25 PM	Peak Integrated by Software incorrectly

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB082724

Review By	yogesh	Review On	8/27/2024 12:49:44 PM
Supervise By	Ankita	Supervise On	8/28/2024 10:02:28 AM
SubDirectory	FB082724	HP Acquire Method	HP Processing Method FB082724
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23534,PP23625,PP23626,PP23627,PP23628,PP23629		
CCC Internal Standard/PEM	PP23631,PP23632		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23535,PP23630		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	5 GRO STD	FB030884.D	27 Aug 2024 8:14	YP/AJ	Ok
2	10 GRO STD	FB030885.D	27 Aug 2024 8:52	YP/AJ	Ok
3	20 GRO STD	FB030886.D	27 Aug 2024 10:09	YP/AJ	Ok
4	50 GRO STD	FB030887.D	27 Aug 2024 10:48	YP/AJ	Ok
5	100 GRO STD	FB030888.D	27 Aug 2024 11:42	YP/AJ	Ok
6	FB082724GROICV	FB030889.D	27 Aug 2024 12:21	YP/AJ	Ok
7	20 PPB GRO STD	FB030890.D	27 Aug 2024 14:18	YP/AJ	Ok
8	VBF0827S1	FB030891.D	27 Aug 2024 15:37	YP/AJ	Ok
9	VBF0827S2	FB030892.D	27 Aug 2024 16:16	YP/AJ	Ok
10	BSF0827S1	FB030893.D	27 Aug 2024 16:56	YP/AJ	Ok
11	P3751-01	FB030894.D	27 Aug 2024 17:35	YP/AJ	Ok
12	P3751-01MS	FB030895.D	27 Aug 2024 19:34	YP/AJ	Ok
13	P3751-01MSD	FB030896.D	27 Aug 2024 20:14	YP/AJ	Ok
14	BSF0827S2	FB030897.D	27 Aug 2024 20:53	YP/AJ	Ok
15	20 PPB GRO STD	FB030898.D	27 Aug 2024 22:12	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB090924

Review By	yogesh	Review On	9/9/2024 1:29:17 PM
Supervise By	Ankita	Supervise On	9/10/2024 1:06:30 PM
SubDirectory	FB090924	HP Acquire Method	HP Processing Method FB082724
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23534,PP23625,PP23626,PP23627,PP23628,PP23629		
CCC Internal Standard/PEM	PP23642,PP23643		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23535,PP23630		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	20 PPB GRO STD	FB030908.D	9 Sep 2024 9:44	YP/AJ	Ok
2	VBF0909W1	FB030909.D	9 Sep 2024 10:22	YP/AJ	Ok
3	BSF0909W1	FB030910.D	9 Sep 2024 11:01	YP/AJ	Ok
4	P3845-18	FB030911.D	9 Sep 2024 11:40	YP/AJ	ReRun
5	I.BLK	FB030912.D	9 Sep 2024 12:18	YP/AJ	Ok
6	P3845-18RE	FB030913.D	9 Sep 2024 12:57	YP/AJ	Confirms
7	I.BLK	FB030914.D	9 Sep 2024 13:36	YP/AJ	Ok
8	BSF0909W2	FB030915.D	9 Sep 2024 14:14	YP/AJ	Ok
9	20 PPB GRO STD	FB030916.D	9 Sep 2024 16:50	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB082724

Review By	yogesh	Review On	8/27/2024 12:49:44 PM
Supervise By	Ankita	Supervise On	8/28/2024 10:02:28 AM
SubDirectory	FB082724	HP Acquire Method	HP Processing Method FB082724

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23534,PP23625,PP23626,PP23627,PP23628,PP23629
CCC Internal Standard/PEM	PP23631,PP23632
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23535,PP23630

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	5 GRO STD		FB030884.D	27 Aug 2024 8:14		YP/AJ	Ok
2	10 GRO STD		FB030885.D	27 Aug 2024 8:52		YP/AJ	Ok
3	20 GRO STD		FB030886.D	27 Aug 2024 10:09		YP/AJ	Ok
4	50 GRO STD		FB030887.D	27 Aug 2024 10:48		YP/AJ	Ok
5	100 GRO STD		FB030888.D	27 Aug 2024 11:42		YP/AJ	Ok
6	FB082724GROICV		FB030889.D	27 Aug 2024 12:21		YP/AJ	Ok
7	20 PPB GRO STD		FB030890.D	27 Aug 2024 14:18		YP/AJ	Ok
8	VBF0827S1		FB030891.D	27 Aug 2024 15:37		YP/AJ	Ok
9	VBF0827S2		FB030892.D	27 Aug 2024 16:16		YP/AJ	Ok
10	BSF0827S1		FB030893.D	27 Aug 2024 16:56		YP/AJ	Ok
11	P3751-01		FB030894.D	27 Aug 2024 17:35	Vial A	YP/AJ	Ok
12	P3751-01MS		FB030895.D	27 Aug 2024 19:34	Vial A	YP/AJ	Ok
13	P3751-01MSD		FB030896.D	27 Aug 2024 20:14	Vial A	YP/AJ	Ok
14	BSF0827S2		FB030897.D	27 Aug 2024 20:53		YP/AJ	Ok
15	20 PPB GRO STD		FB030898.D	27 Aug 2024 22:12		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB090924

Review By	yogesh	Review On	9/9/2024 1:29:17 PM
Supervise By	Ankita	Supervise On	9/10/2024 1:06:30 PM
SubDirectory	FB090924	HP Acquire Method	HP Processing Method
			FB082724
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23534,PP23625,PP23626,PP23627,PP23628,PP23629		
CCC	PP23642,PP23643		
Internal Standard/PEM			
ICV/I.BLK	PP23535,PP23630		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	20 PPB GRO STD		FB030908.D	9 Sep 2024 9:44		YP/AJ	Ok
2	VBF0909W1		FB030909.D	9 Sep 2024 10:22		YP/AJ	Ok
3	BSF0909W1		FB030910.D	9 Sep 2024 11:01		YP/AJ	Ok
4	P3845-18		FB030911.D	9 Sep 2024 11:40	Surrogate fail	YP/AJ	ReRun
5	I.BLK		FB030912.D	9 Sep 2024 12:18		YP/AJ	Ok
6	P3845-18RE		FB030913.D	9 Sep 2024 12:57	Surrogate fail	YP/AJ	Confirms
7	I.BLK		FB030914.D	9 Sep 2024 13:36		YP/AJ	Ok
8	BSF0909W2		FB030915.D	9 Sep 2024 14:14		YP/AJ	Ok
9	20 PPB GRO STD		FB030916.D	9 Sep 2024 16:50		YP/AJ	Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P3845

Test : Gasoline Range Organics

Prepbatch ID :

Sequence ID/Qc Batch ID: FB090924,

Standard ID :

PP23534,PP23535,PP23538,PP23625,PP23626,PP23627,PP23628,PP23629,PP23630,PP23642,PP23643,

Chemical ID :

P11121,P9826,V11252,V14143,W3112,

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
231	10 PPM GRO STD 1ST SOURCE	PP23534	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
07/30/2024								

FROM 0.11100ml of P9826 + 9.89000ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
233	10 PPM GRO STD 2nd SOURCE	PP23535	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
07/30/2024								

FROM 0.11100ml of P11121 + 9.89000ml of V14143 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3619	25 PPM AAA-TFT Surg	PP23538	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								07/30/2024

FROM 0.10000ml of V11252 + 9.90000ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
238	5 PPB ICC GRO STD	PP23625	08/27/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								08/28/2024

FROM 5.00000ml of W3112 + 0.00100ml of PP23538 + 0.00250ml of PP23534 = Final Quantity: 5.004 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
237	10 PPB ICC GRO STD	PP23626	08/27/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								08/28/2024

FROM 5.00000ml of W3112 + 0.00200ml of PP23538 + 0.00500ml of PP23534 = Final Quantity: 5.007 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
239	20 PPB ICC GRO STD	PP23627	08/27/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								08/28/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
235	50 PPB ICC GRO STD	PP23628	08/27/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								08/28/2024

FROM 5.00000ml of W3112 + 0.01000ml of PP23538 + 0.02500ml of PP23534 = Final Quantity: 5.035 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
234	100 PPB ICC GRO STD	PP23629	08/27/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								08/28/2024

FROM 5.00000ml of W3112 + 0.02000ml of PP23538 + 0.05000ml of PP23534 = Final Quantity: 5.070 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
240	20 PPB ICV GRO STD	PP23630	08/27/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								08/28/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23535 = Final Quantity: 5.014 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
241	20 PPB CCC GRO STD	PP23642	09/09/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
241	20 PPB CCC GRO STD	PP23643	09/09/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024
<u>FROM</u>	5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0161776	01/25/2025	07/25/2024 / yogesh	02/10/2021 / Sohil	P11121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0155991	01/25/2025	07/25/2024 / yogesh	09/11/2020 / DHAVAL	P9826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30068 / VOA Mix, a, a, a-trifluorotoluene 2500ug/ml, P&T methanol, 1ml	A0158026	05/31/2028	11/27/2023 / yogesh	09/11/2020 / DHAVAL	V11252

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30065 **Lot No.:** A0161776

Description : Gasoline Range Organics Mix (EPA)

Gasoline Range Organics Mix (EPA) 500 - 1500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylpentane CAS # 107-83-5 (Lot MKCB1674V) Purity 99%	1,507.0 µg/mL	+/- 8.9511 µg/mL Gravimetric +/- 84.5158 µg/mL Unstressed +/- 86.4925 µg/mL Stressed
2	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot SHBF8066V) Purity 99%	1,511.0 µg/mL	+/- 8.9749 µg/mL Gravimetric +/- 84.7402 µg/mL Unstressed +/- 86.7221 µg/mL Stressed
3	n-Heptane (C7) CAS # 142-82-5 (Lot SHBK8626) Purity 98%	498.8 µg/mL	+/- 2.9628 µg/mL Gravimetric +/- 27.9749 µg/mL Unstressed +/- 28.6292 µg/mL Stressed
4	Benzene CAS # 71-43-2 (Lot SHBK5679) Purity 99%	500.0 µg/mL	+/- 2.9698 µg/mL Gravimetric +/- 28.0411 µg/mL Unstressed +/- 28.6969 µg/mL Stressed
5	Toluene CAS # 108-88-3 (Lot MKCH9232) Purity 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL Gravimetric +/- 84.6841 µg/mL Unstressed +/- 86.6647 µg/mL Stressed
6	Ethylbenzene CAS # 100-41-4 (Lot SHBL0706) Purity 99%	504.0 µg/mL	+/- 2.9936 µg/mL Gravimetric +/- 28.2654 µg/mL Unstressed +/- 28.9265 µg/mL Stressed
7	m-Xylene CAS # 108-38-3 (Lot SHBL0265) Purity 99%	1,005.0 µg/mL	+/- 5.9694 µg/mL Gravimetric +/- 56.3626 µg/mL Unstressed +/- 57.6808 µg/mL Stressed

8	o-Xylene		(Lot SHBK7739)	1,007.0	µg/mL	+/-	5.9813	µg/mL	Gravimetric
	CAS #	95-47-6				+/-	56.4747	µg/mL	Unstressed
	Purity	99%				+/-	57.7956	µg/mL	Stressed
9	1,2,4-Trimethylbenzene		(Lot WXBC4246V)	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS #	95-63-6				+/-	56.5308	µg/mL	Unstressed
	Purity	99%				+/-	57.8530	µg/mL	Stressed
Solvent:	P&T Methanol								
	CAS #	67-56-1							
	Purity	99%							

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

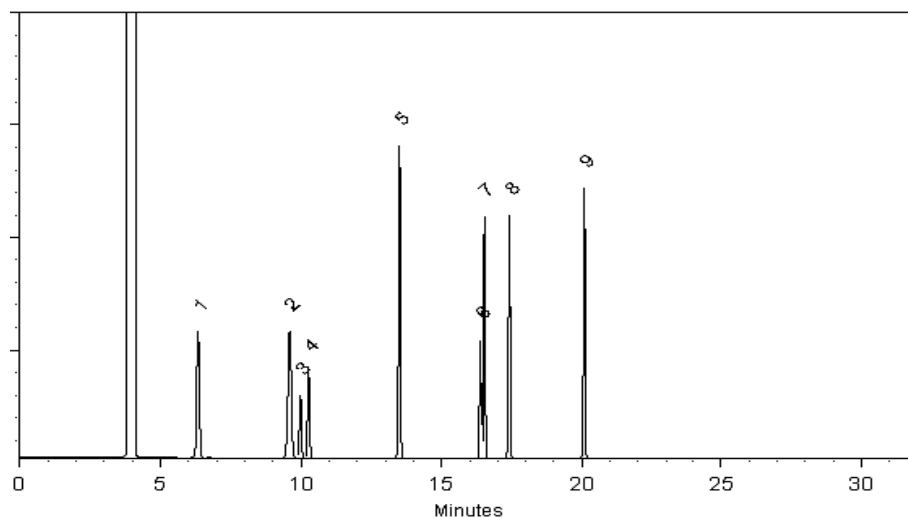
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 15-Jun-2020

Balance: B251644995

Fang-Yun Lo
Fang-Yun Lo - QC Analyst

Date Passed: 17-Jun-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Date	Order #
09/03/2024	318988



Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
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For terms and conditions of your order, please visit:
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09/03/2024	318988



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240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488