

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3015

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3015

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3015-01
Q3015-02
Q3015-03
Q3015-04
Q3015-05
Q3015-06
Q3015-07
Q3015-08
Q3015-09
Q3015-10
Q3015-11
Q3015-12
Q3015-13
Q3015-14
Q3015-15
Q3015-16
Q3015-17
Q3015-18
Q3015-19
Q3015-20
Q3015-21
Q3015-22

Client Sample Number

WP0925-PT-VOA-WP
WP0925-PT-VOA-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-PEST-WP
WP0925-PT-PEST-WP
WP0925-PT-CHLR-WP
WP0925-PT-CHLR-WP
WP0925-PT-TXP-WP
WP0925-PT-TXP-WP
WP0925-PT-PCBW-WP
WP0925-PT-PCBW-WP
WP0925-PT-HERB-WP
WP0925-RR-GAS-WP
WP0925-RR-DIES-WP
WP0925-RR-8011-WP
WP0925-RR-PAH-WP
WP0925-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: 10/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Order ID # Q3015

Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:

1 Water sample was received on 09/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Gasoline Range Organics. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:

The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909. The analysis of Gasoline Range Organics was based on method 8015D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for WP0925-RR-GAS-WP [Alpha, Alpha and Alpha-Trifluorotoluene - 183%] due to matrix interference.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

Samples WP0925-RR-GAS-WP was diluted due to bad matrix, The above sample original run is reported as screening data in miscellaneous data.

E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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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



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3015

MATRIX: Water

METHOD: 8015D/3510

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified.			✓
2. Standard Summary Submitted.			✓
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis except for WP0925-RR-GAS-WP [Alpha,Alpha andAlpha-Trifluorotoluene - 183%] due to matrix interference.		✓	
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds. The RPD were met for all analysis.			✓
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample:		✓	



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
9. Analysis Holding Time Met		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The Holding Times were met for all analysis.

ADDITIONAL COMMENTS:

Samples WP0925-RR-GAS-WP was diluted due to bad matrix, The above sample original run is reported as screening data in miscellaneous data.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3015

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: SOHIL JODHANI

Date: 10/06/2025

LAB CHRONICLE

OrderID:	Q3015	OrderDate:	9/4/2025 10:14:00 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3015-09	WP0925-PT-PEST-WP	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-09DL	WP0925-PT-PEST-WP DL	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-09DL 2	WP0925-PT-PEST-WP DL2	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-15	WP0925-PT-PCBW-W P	WATER	PCB	8082A	09/02/25	09/08/25	09/09/25	09/04/25
Q3015-18	WP0925-RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/02/25		09/17/25	09/04/25
Q3015-19	WP0925-RR-DIES-WP	Water	Diesel Range Organics	8015D	09/02/25	09/17/25	09/18/25	09/04/25



QC SUMMARY

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WATER GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance

Client: Alliance Technical Group, LLC - Newark

Lab Code: ACE

SDG No.: Q3015

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VPF0917W1	100				0
BSF0917W1	102				0
BSF0917W2	104				0
WP0925-RR-GAS-WP	183 *				1

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: Alliance **Client:** Alliance Technical Group, LLC - Newark
Lab Code: ACE **SDG No:** Q3015
Client Sample ID : BSF0917W1 **Datafile:** FB032200.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
GRO	180	0	194	108	50-150

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

Lab Name: Alliance **Client:** Alliance Technical Group, LLC - Newark
Lab Code: ACE **SDG No:** Q3015
Client Sample ID : BSF0917W2 **Datafile:** FB032201.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
GRO	180	0	185	103	50-150

LCS/LCSD % Recovery RPD : 4.7

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0917W1

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab File ID: FB032199.D

Lab Sample ID: VBF0917W1

Date Analyzed: 09/17/25

Time Analyzed: 12:18

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:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0917W1	BSF0917W1	FB032200.D	09/17/25
BSF0917W2	BSF0917W2	FB032201.D	09/17/25
WP0925-RR-GAS-WP	Q3015-18	FB032204.D	09/17/25

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/02/25	
Project:	NJ Waste Water PT		Date Received:	09/04/25	
Client Sample ID:	WP0925-RR-GAS-WP		SDG No.:	Q3015	
Lab Sample ID:	Q3015-18		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
FB032204.D	5	09/17/25 14:59	FB091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	2690		32.0	225	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	36.6	*	50 - 150	183%	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\FB091725\
 Data File : FB032204.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2025 14:59
 Operator : YP/AJ
 Sample : Q3015-18 5X
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 WP0925-RR-GAS-WP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/18/2025
 Supervised By :mohammad ahmed 09/22/2025

Integration File: Calibration.e
 Quant Time: Sep 18 04:08:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.812	629129	36.557 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.712	262520	11.467 ng/ml
2) t 2,2,4-Trimethylpentane	7.414	863006	33.712 ng/ml
3) t n-Heptane	7.758	547476	22.242 ng/ml
4) t Benzene	7.895	201845	6.342 ng/ml
6) t Toluene	10.626	2134514	65.079 ng/mlm
7) t Ethylbenzene	13.062	601567	20.717 ng/ml
8) t m-Xylene	13.194	1925501	64.314 ng/ml
9) t O-Xylene	13.922	688337	24.079 ng/mlm
10) t 1,2,4-Trimethylbenzene	16.198	669069	25.739 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032204.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 14:59
Operator : YP/AJ
Sample : Q3015-18 5X
Misc :
ALS Vial : 2 Sample Multiplier: 1

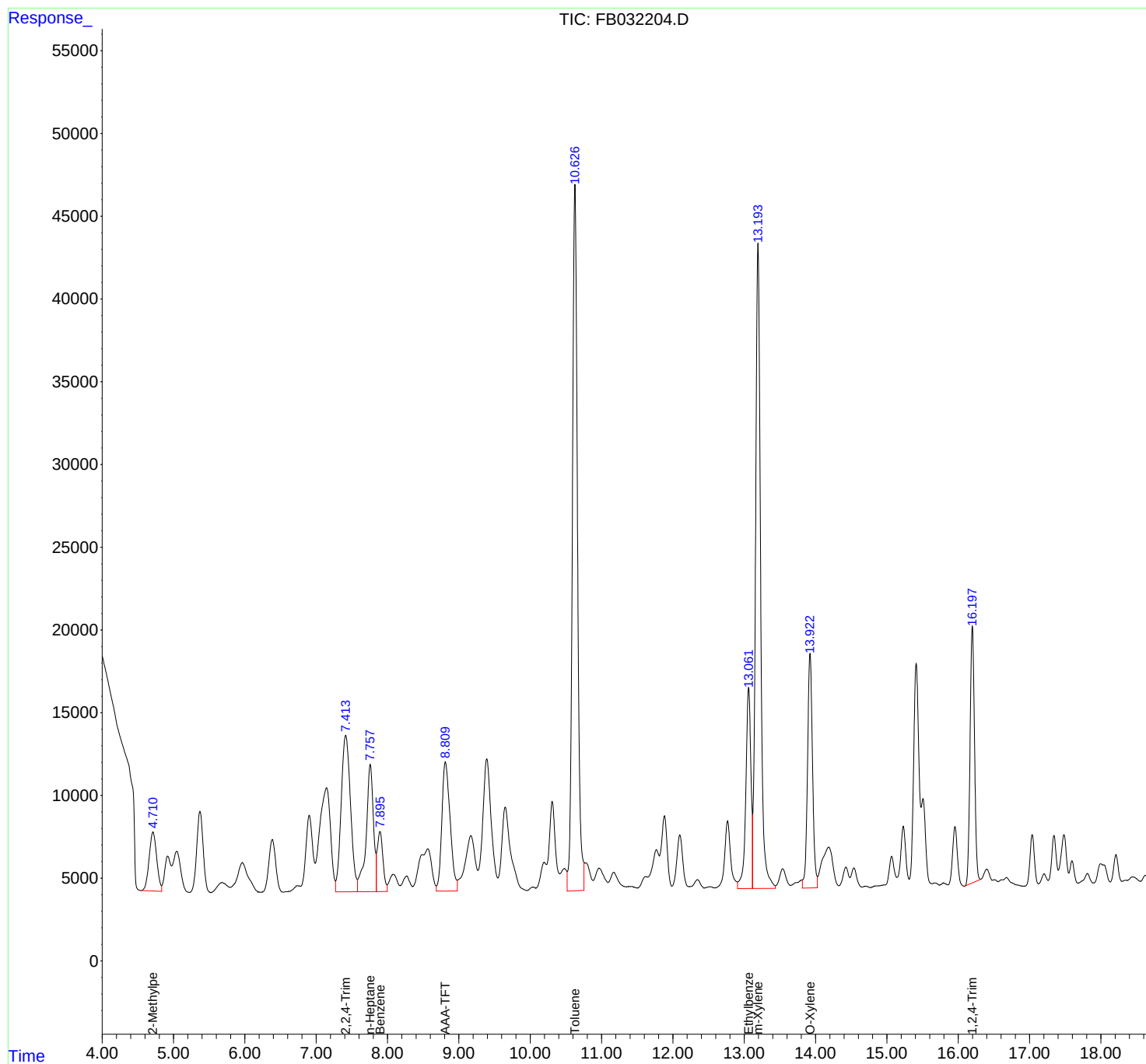
Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

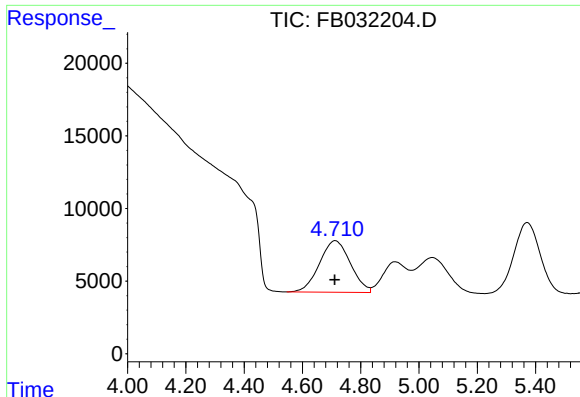
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025

Integration File: Calibration.e
Quant Time: Sep 18 04:08:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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





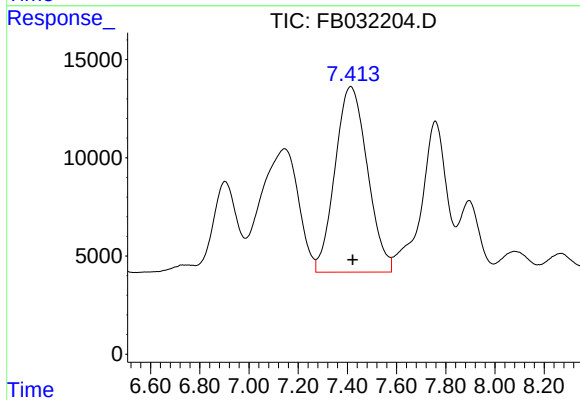
#1 2-Methylpentane

R.T.: 4.712 min
Delta R.T.: 0.001 min
Response: 262520
Conc: 11.47 ng/ml

Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

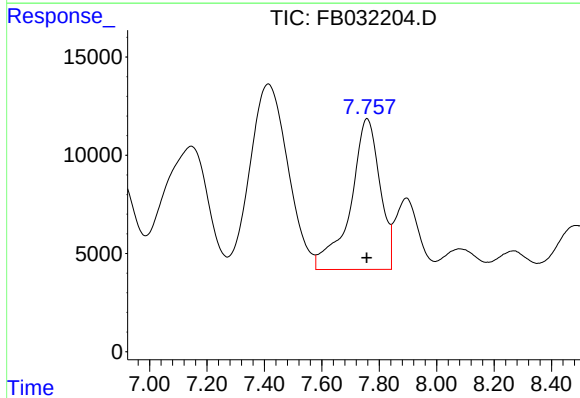
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



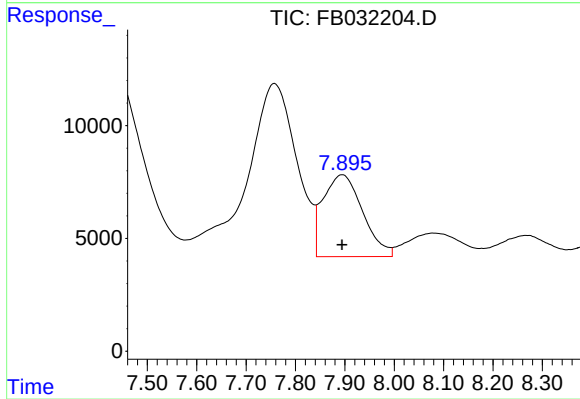
#2 2,2,4-Trimethylpentane

R.T.: 7.414 min
Delta R.T.: -0.008 min
Response: 863006
Conc: 33.71 ng/ml



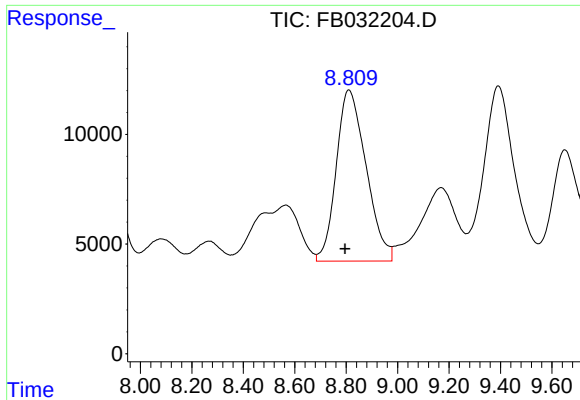
#3 n-Heptane

R.T.: 7.758 min
Delta R.T.: 0.002 min
Response: 547476
Conc: 22.24 ng/ml



#4 Benzene

R.T.: 7.895 min
Delta R.T.: 0.000 min
Response: 201845
Conc: 6.34 ng/ml



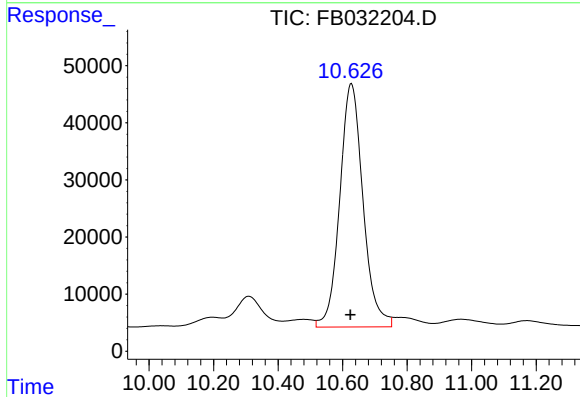
#5 AAA-TFT

R.T.: 8.812 min
Delta R.T.: 0.015 min
Response: 629129
Conc: 36.56 ng/ml

Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

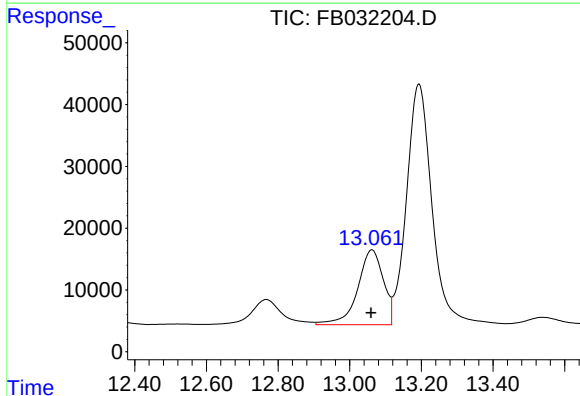
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



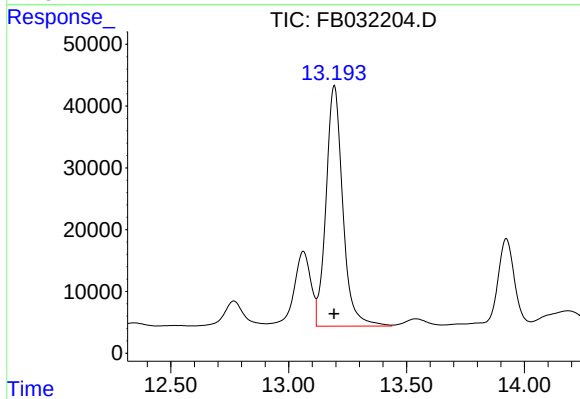
#6 Toluene

R.T.: 10.626 min
Delta R.T.: 0.001 min
Response: 2134514
Conc: 65.08 ng/ml m



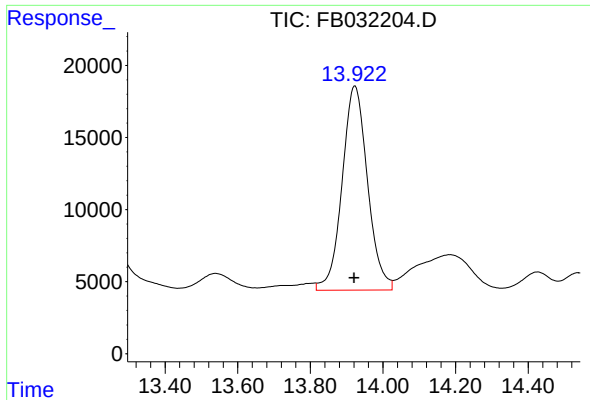
#7 Ethylbenzene

R.T.: 13.062 min
Delta R.T.: 0.002 min
Response: 601567
Conc: 20.72 ng/ml



#8 m-Xylene

R.T.: 13.194 min
Delta R.T.: 0.000 min
Response: 1925501
Conc: 64.31 ng/ml



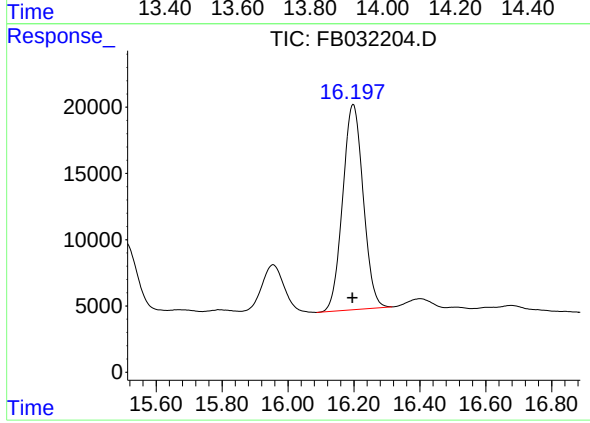
#9 O-Xylene

R.T.: 13.922 min
Delta R.T.: 0.001 min
Response: 688337
Conc: 24.08 ng/ml

Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



#10 1,2,4-Trimethylbenzene

R.T.: 16.198 min
Delta R.T.: 0.003 min
Response: 669069
Conc: 25.74 ng/ml

rteres

Instrument :

FID_B

ClientSampleId :

WP0925-RR-GAS-WP

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/18/2025

Supervised By :mohammad ahmed 09/22/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB09172
Data File : FB032204.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 14:59
Sample : Q3015-18 5X
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.712	4.520	4.834	BV	3550	260695	11.72%	1.679%
2	5.683	5.523	5.795	PV	606	59216	2.66%	0.381%
3	5.966	5.795	6.217	VV	1801	197292	8.87%	1.271%
4	6.385	6.217	6.535	PV	3180	212890	9.57%	1.371%
5	6.903	6.783	6.987	VV	4633	310236	13.94%	1.999%
6	7.145	6.987	7.272	VV	6286	662098	29.76%	4.265%
7	7.414	7.272	7.581	VV	9455	863440	38.81%	5.562%
8	7.758	7.581	7.842	VV	7677	546369	24.56%	3.520%
9	7.895	7.842	7.996	VV	3628	201688	9.06%	1.299%
10	8.082	7.996	8.182	VV	1032	79681	3.58%	0.513%
11	8.268	8.182	8.355	VV	925	64137	2.88%	0.413%
12	8.565	8.355	8.684	VV	2566	307486	13.82%	1.981%
13	8.812	8.684	8.978	VV	7806	628946	28.27%	4.052%
14	9.169	8.978	9.268	VV	3344	327152	14.70%	2.108%
15	9.392	9.268	9.547	VV	7975	662134	29.76%	4.266%
16	9.651	9.547	9.953	VV	5050	436239	19.61%	2.810%
17	10.039	9.953	10.078	PV	199	9585	0.43%	0.062%
18	10.198	10.078	10.230	VV	1691	91782	4.12%	0.591%
19	10.310	10.230	10.416	VV	5369	323382	14.53%	2.083%
20	10.480	10.416	10.520	VV	1312	74054	3.33%	0.477%
21	10.627	10.520	10.882	VV	42623	2225028	100.00%	14.334%
22	10.968	10.882	11.092	VV	1314	113501	5.10%	0.731%
23	11.172	11.092	11.349	VV	1057	87191	3.92%	0.562%
24	11.415	11.349	11.502	VV	188	14817	0.67%	0.095%
25	11.770	11.502	11.810	VV	2396	200497	9.01%	1.292%
26	11.882	11.810	11.990	VV	4451	259018	11.64%	1.669%
27	12.098	11.990	12.246	VV	3274	195435	8.78%	1.259%
28	12.345	12.246	12.440	VV	573	36415	1.64%	0.235%
29	12.519	12.440	12.585	VV	136	8529	0.38%	0.055%
30	12.767	12.585	12.906	VV	4102	244172	10.97%	1.573%
31	13.062	12.906	13.117	VV	12148	601557	27.04%	3.875%
32	13.194	13.117	13.437	VV	38958	1925488	86.54%	12.404%
33	13.540	13.437	13.654	VV	1182	77744	3.49%	0.501%
34	13.923	13.654	14.030	VV	14178	723796	32.53%	4.663%
35	14.184	14.030	14.328	VV	2460	261471	11.75%	1.684%
36	14.426	14.328	14.483	VV	1247	67543	3.04%	0.435%

Page 1

					rters		
37	14.538	14.483	14.656	VV	1194	62735	
38	14.703	14.656	14.784	VV	81	3313	
39	15.067	14.784	15.142	PV	1867	107012	
40	15.231	15.142	15.312	VV	3674	187180	
41	15.412	15.312	15.635	VV	13478	920048	41
42	15.672	15.635	15.739	VV	226	11139	
43	15.795	15.739	15.858	VV	213	10800	
44	15.955	15.858	16.087	VV	3611	171213	
45	16.198	16.087	16.316	PV	15628	688501	

Sum of corrected areas: 15522646

FB082125.M Thu Sep 18 06:05:47 2025

Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP
2.82% 0.404%
Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



CALIBRATION SUMMARY

1
2
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16

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
ProjectID: NJ Waste Water PT
Lab Code: ACE

Contract: ALLI03
SDG No.: Q3015

Calibration Sequence : FB082125		Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID
45	1222961	27177	FB032157.D
90	1839947	20444	FB032158.D
180	5463615	30353	FB032159.D
450	13753180	30563	FB032160.D
900	26915665	29906	FB032161.D
AVG RF : 27689		% RSD : 15.431	AVG RT : 8.7958

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
 Data File : FB032157.D
 Signal(s) : FID2B.CH
 Acq On : 21 Aug 2025 9:11
 Operator : YP/AJ
 Sample : 5 GRO STD
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 5 GRO STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/22/2025
 Supervised By :mohammad ahmed 08/25/2025

Integration File: Calibration.e
 Quant Time: Aug 21 10:52:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:50:20 2025
 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	8.796	92233	5.359 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.709	142107	6.236 ng/ml
2) t 2,2,4-Trimethylpentane	7.415	170054	6.643 ng/ml
3) t n-Heptane	7.747	61515	2.691 ng/mlm
4) t Benzene	7.891	72490	2.278 ng/ml
6) t Toluene	10.621	243433	7.422 ng/ml
7) t Ethylbenzene	13.057	72976	2.513 ng/ml
8) t m-Xylene	13.189	149236	4.985 ng/ml
9) t O-Xylene	13.916	147127	5.147 ng/ml
10) t 1,2,4-Trimethylbenzene	16.193	164023	6.310 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032157.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 9:11
Operator : YP/AJ
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

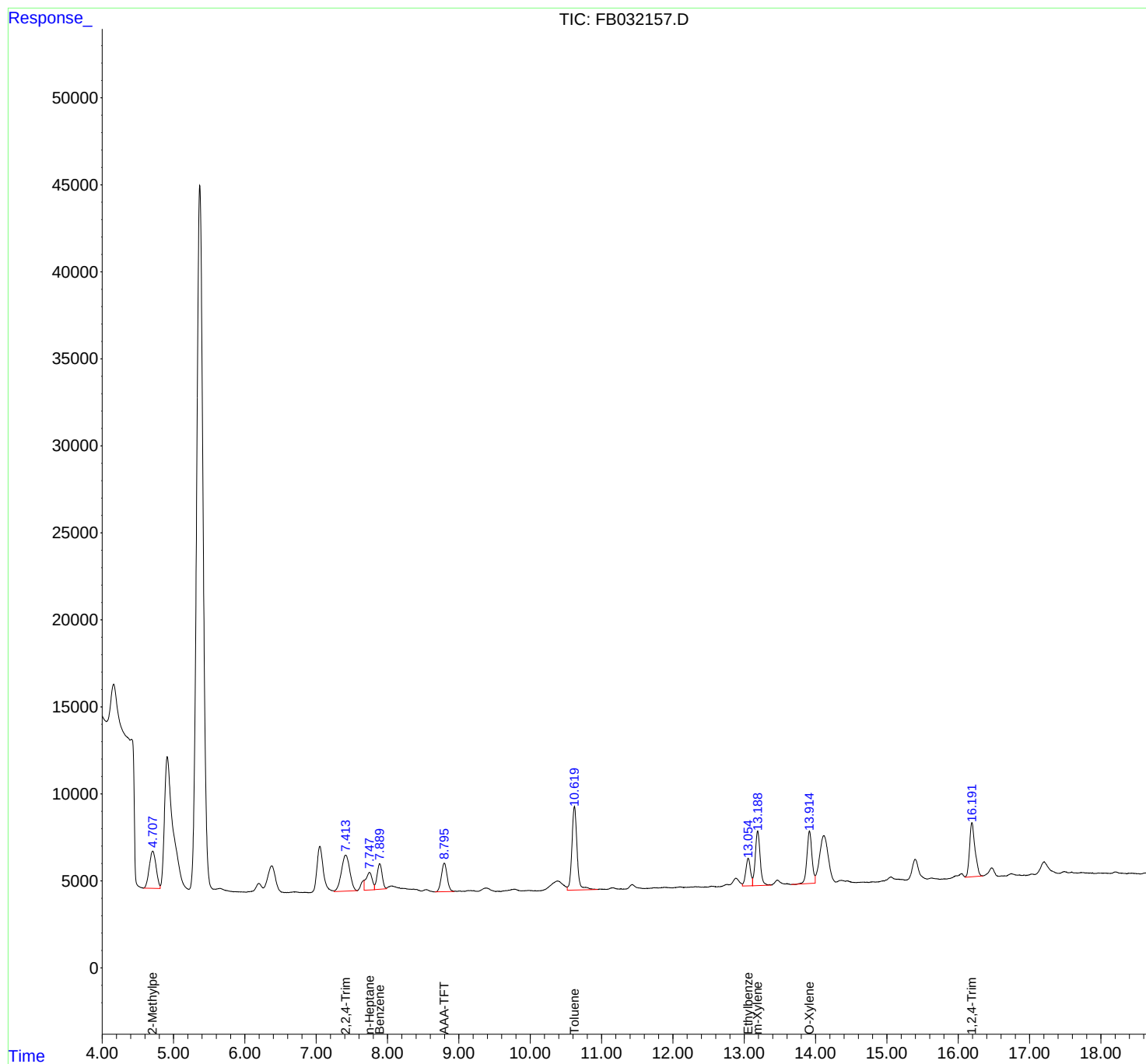
Instrument :
FID_B
ClientSampleId :
5 GRO STD

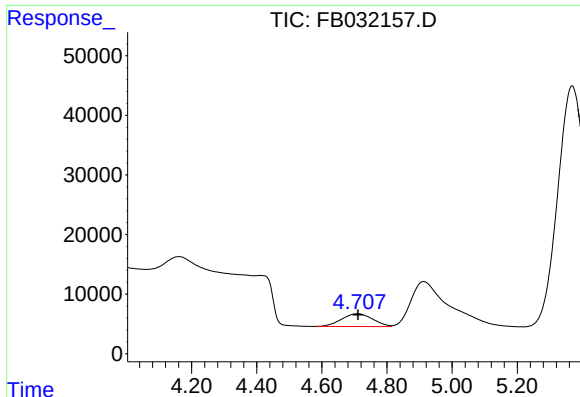
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025

Integration File: Calibration.e
Quant Time: Aug 21 10:52:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:50:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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





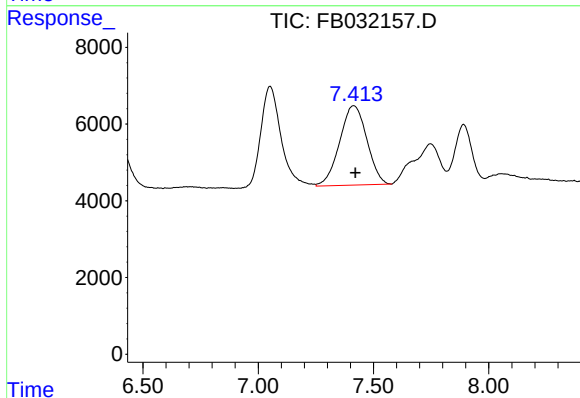
#1 2-Methylpentane

R.T.: 4.709 min
Delta R.T.: -0.002 min
Response: 142107
Conc: 6.24 ng/ml

Instrument :
FID_B
ClientSampleId :
5 GRO STD

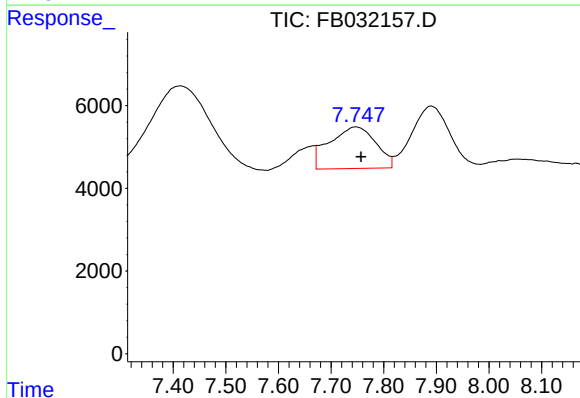
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



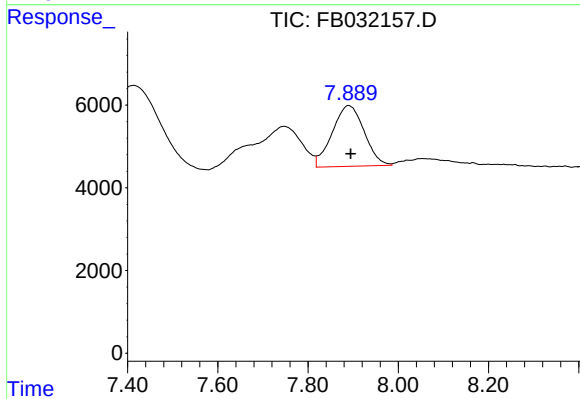
#2 2,2,4-Trimethylpentane

R.T.: 7.415 min
Delta R.T.: -0.007 min
Response: 170054
Conc: 6.64 ng/ml



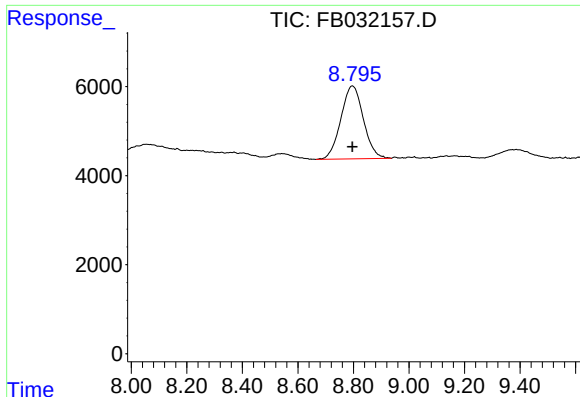
#3 n-Heptane

R.T.: 7.747 min
Delta R.T.: -0.010 min
Response: 61515
Conc: 2.69 ng/ml m



#4 Benzene

R.T.: 7.891 min
Delta R.T.: -0.004 min
Response: 72490
Conc: 2.28 ng/ml



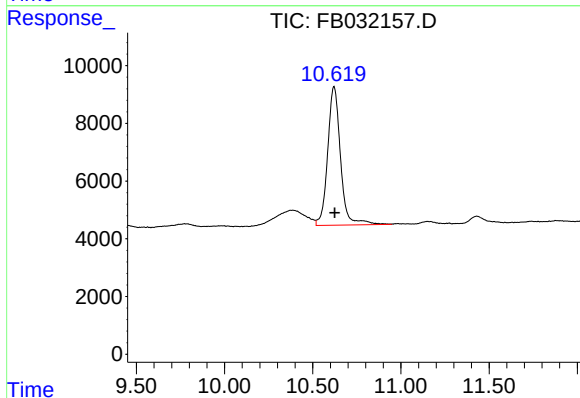
#5 AAA-TFT

R.T.: 8.796 min
Delta R.T.: 0.000 min
Response: 92233
Conc: 5.36 ng/ml

Instrument :
FID_B
ClientSampleId :
5 GRO STD

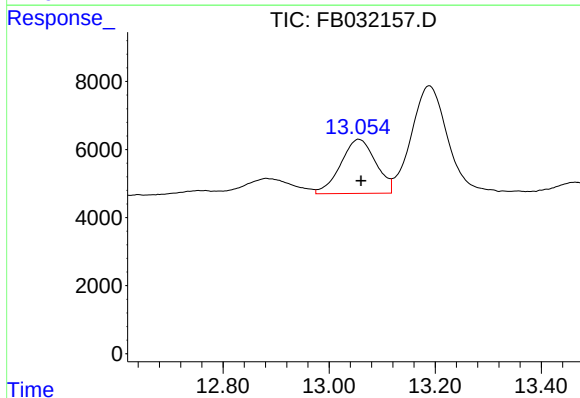
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



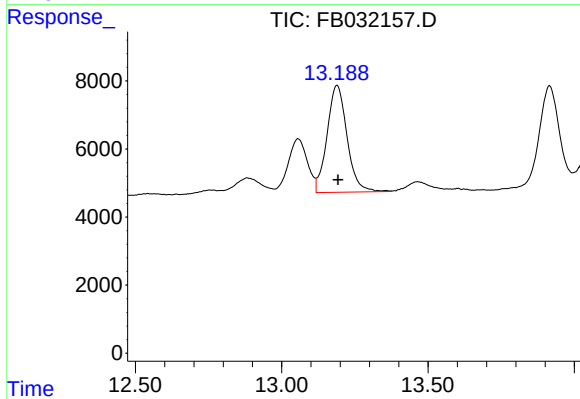
#6 Toluene

R.T.: 10.621 min
Delta R.T.: -0.004 min
Response: 243433
Conc: 7.42 ng/ml



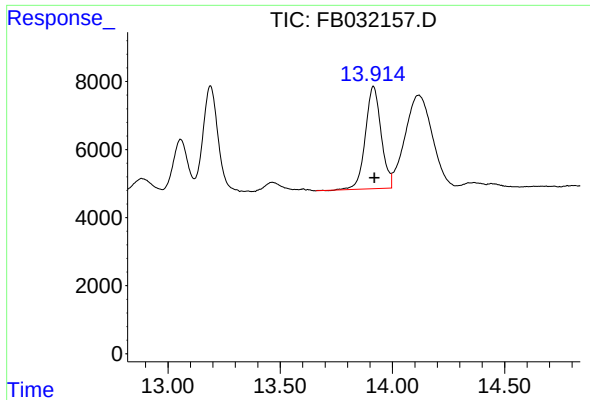
#7 Ethylbenzene

R.T.: 13.057 min
Delta R.T.: -0.003 min
Response: 72976
Conc: 2.51 ng/ml



#8 m-Xylene

R.T.: 13.189 min
Delta R.T.: -0.004 min
Response: 149236
Conc: 4.98 ng/ml



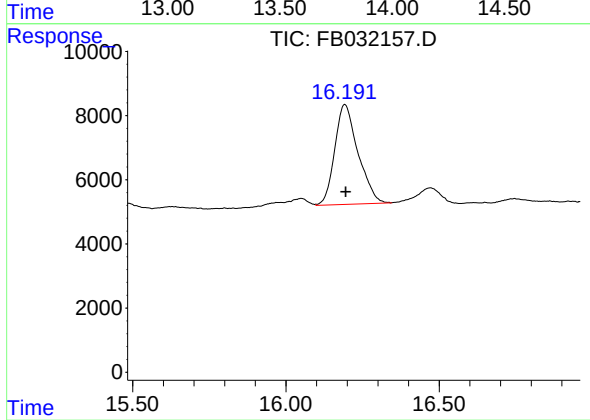
#9 O-Xylene

R.T.: 13.916 min
Delta R.T.: -0.005 min
Response: 147127
Conc: 5.15 ng/ml

Instrument :
FID_B
ClientSampleId :
5 GRO STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



#10 1,2,4-Trimethylbenzene

R.T.: 16.193 min
Delta R.T.: -0.003 min
Response: 164023
Conc: 6.31 ng/ml

rteres

Instrument :

FID_B

LabSampleId :

5 GRO STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/22/2025

Supervised By :mohammad ahmed 08/25/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125

Data File : FB032157.D

Signal(s) : FID2B.CH

Acq On : 21 Aug 2025 9:11

Sample : 5 GRO STD

Misc :

ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.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	4.582	4.814	BV	2143	142107	58.38%	9.995%
2	7.052	6.895	7.251	PV	2639	161762	66.45%	11.378%
3	7.415	7.251	7.579	VV	2072	170054	69.86%	11.961%
4	7.748	7.579	7.818	PV	1007	78787	32.36%	5.542%
5	8.796	8.665	8.937	PV	1640	92233	37.89%	6.487%
6	10.621	10.519	10.947	VV	4811	243433	100.00%	17.122%
7	13.057	12.975	13.118	VV	1589	72976	29.98%	5.133%
8	13.189	13.118	13.376	VV	3147	149236	61.30%	10.497%
9	13.916	13.660	13.996	PV	3015	147127	60.44%	10.348%
10	16.193	16.098	16.345	VV	3116	164023	67.38%	11.537%

Sum of corrected areas: 1421737

FB082125.M Fri Aug 22 07:28:32 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
 Data File : FB032158.D
 Signal(s) : FID2B.CH
 Acq On : 21 Aug 2025 9:39
 Operator : YP/AJ
 Sample : 10 GRO STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 10 GRO STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/22/2025
 Supervised By :mohammad ahmed 08/25/2025

Integration File: Calibration.e
 Quant Time: Aug 21 10:03:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:03:05 2025
 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	8.796	161978	9.003 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.708	257576	11.609 ng/mlm
2) t 2,2,4-Trimethylpentane	7.422	275852	10.801 ng/ml
3) t n-Heptane	7.757	83031	2.906 ng/ml
4) t Benzene	7.893	110691	3.468 ng/ml
6) t Toluene	10.623	366697	10.701 ng/ml
7) t Ethylbenzene	13.059	110733	3.616 ng/ml
8) t m-Xylene	13.191	228488	7.246 ng/ml
9) t O-Xylene	13.919	214216	7.002 ng/ml
10) t 1,2,4-Trimethylbenzene	16.194	192663	6.434 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032158.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 9:39
Operator : YP/AJ
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

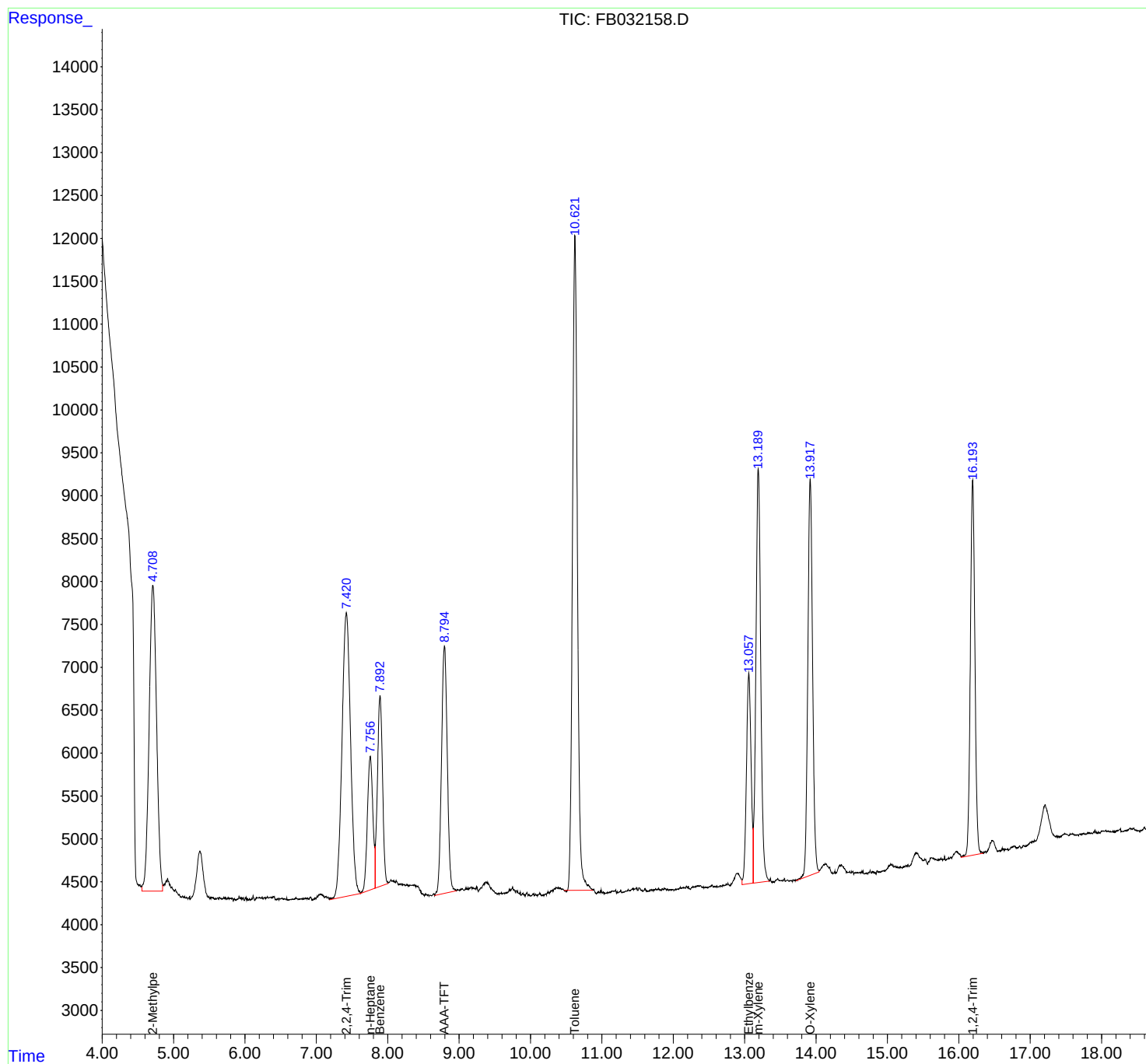
Instrument :
FID_B
ClientSampleId :
10 GRO STD

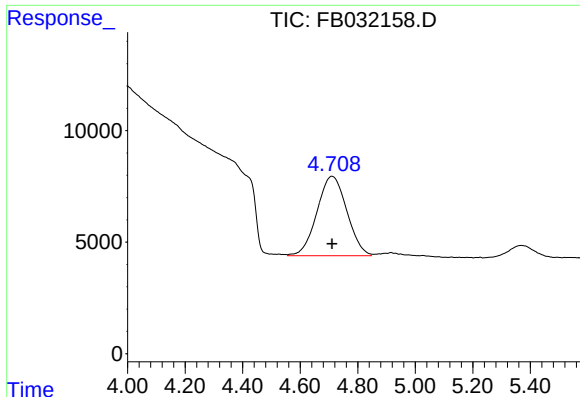
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025

Integration File: Calibration.e
Quant Time: Aug 21 10:03:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:03:05 2025
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.: 4.708 min
Delta R.T.: -0.003 min
Response: 257576
Conc: 11.61 ng/ml

Instrument :

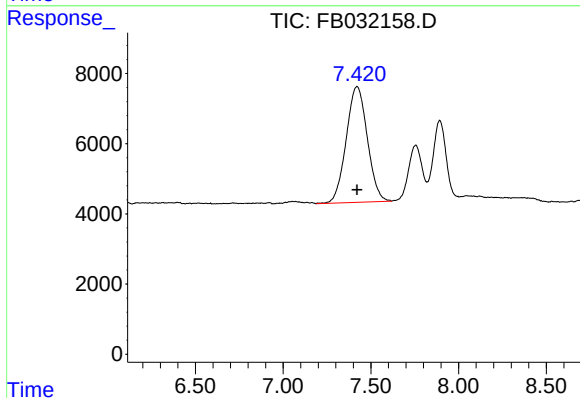
FID_B

ClientSampleId :

10 GRO STD

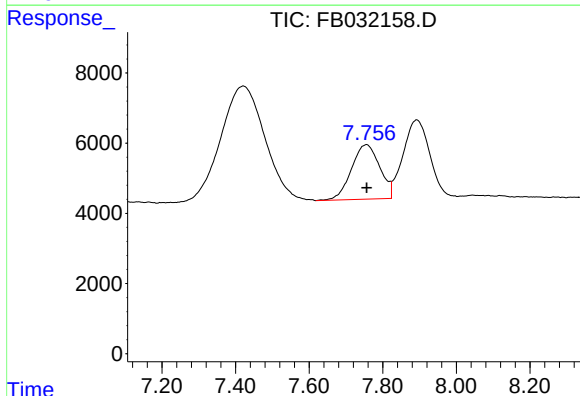
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



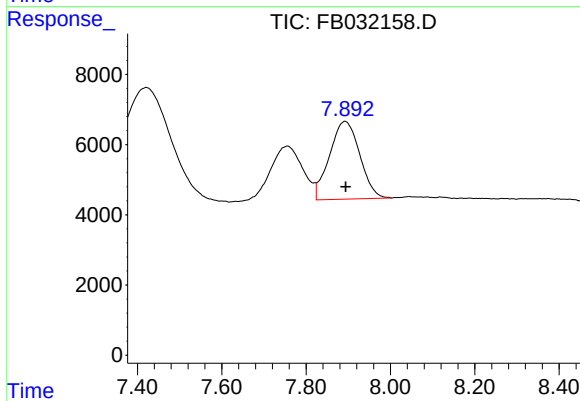
#2 2,2,4-Trimethylpentane

R.T.: 7.422 min
Delta R.T.: 0.000 min
Response: 275852
Conc: 10.80 ng/ml



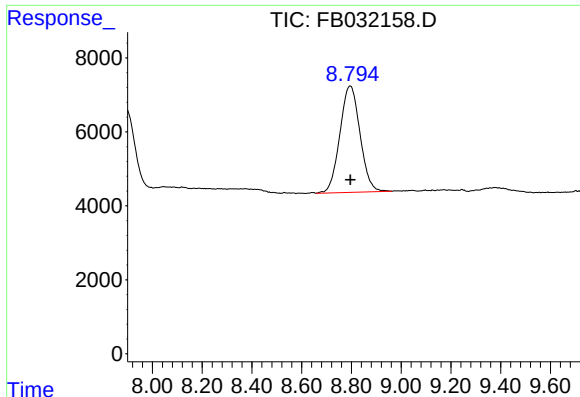
#3 n-Heptane

R.T.: 7.757 min
Delta R.T.: 0.000 min
Response: 83031
Conc: 2.91 ng/ml



#4 Benzene

R.T.: 7.893 min
Delta R.T.: -0.001 min
Response: 110691
Conc: 3.47 ng/ml



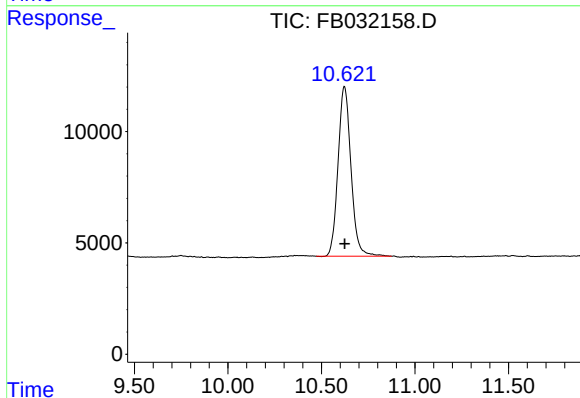
#5 AAA-TFT

R.T.: 8.796 min
Delta R.T.: 0.000 min
Response: 161978
Conc: 9.00 ng/ml

Instrument :
FID_B
ClientSampleId :
10 GRO STD

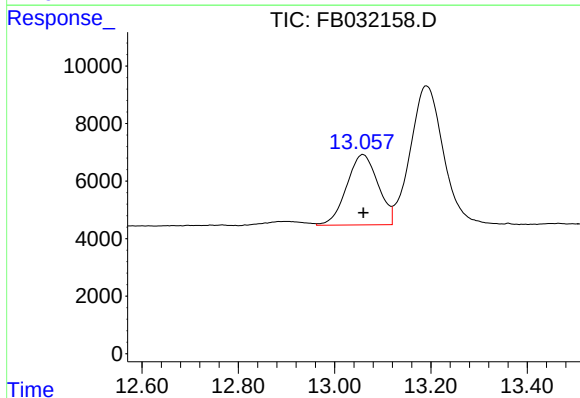
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



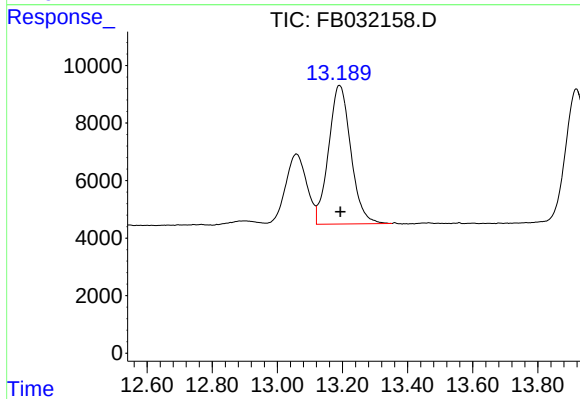
#6 Toluene

R.T.: 10.623 min
Delta R.T.: -0.002 min
Response: 366697
Conc: 10.70 ng/ml



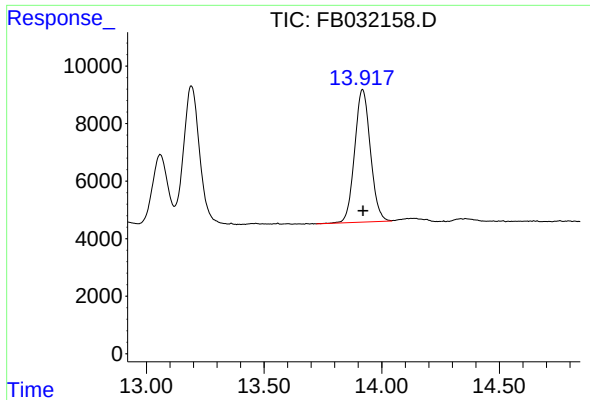
#7 Ethylbenzene

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 110733
Conc: 3.62 ng/ml



#8 m-Xylene

R.T.: 13.191 min
Delta R.T.: -0.002 min
Response: 228488
Conc: 7.25 ng/ml



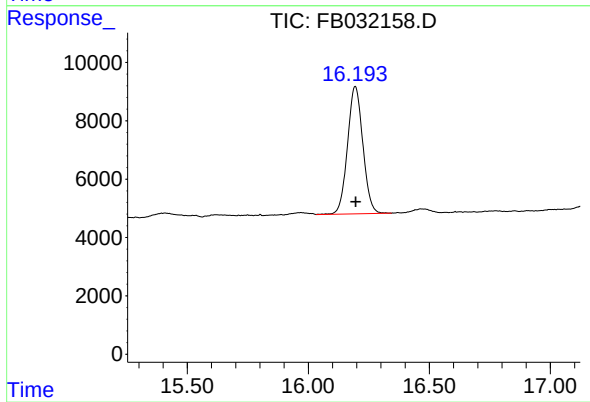
#9 O-Xylene

R.T.: 13.919 min
Delta R.T.: -0.002 min
Response: 214216
Conc: 7.00 ng/ml

Instrument :
FID_B
ClientSampleId :
10 GRO STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



#10 1,2,4-Trimethylbenzene

R.T.: 16.194 min
Delta R.T.: -0.001 min
Response: 192663
Conc: 6.43 ng/ml

Instrument :
FID_B
LabSampleId :
10 GRO STD
Area Percent Report
Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125.M
Data File : FB032158.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 9:39
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.710	4.557	4.852	BV	3508	247392	67.46%	12.421%
2	7.422	7.188	7.618	PV	3303	275852	75.23%	13.850%
3	7.757	7.618	7.824	PV	1556	83031	22.64%	4.169%
4	7.893	7.824	8.004	VV	2221	110691	30.19%	5.557%
5	8.796	8.658	8.963	PV	2880	161978	44.17%	8.132%
6	10.623	10.471	10.875	BV	7635	366697	100.00%	18.411%
7	13.059	12.962	13.120	VV	2449	110733	30.20%	5.560%
8	13.191	13.120	13.352	VV	4819	228488	62.31%	11.472%
9	13.919	13.722	14.043	PV	4611	214216	58.42%	10.755%
10	16.194	16.032	16.344	VV	4371	192663	52.54%	9.673%

Sum of corrected areas: 1991742

FB082125.M Fri Aug 22 07:18:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
 Data File : FB032159.D
 Signal(s) : FID2B.CH
 Acq On : 21 Aug 2025 10:07
 Operator : YP/AJ
 Sample : 20 GRO STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 GRO STD

Integration File: Calibration.e
 Quant Time: Aug 21 10:00:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:00:25 2025
 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	8.797	350706	20.000 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.711	762805	30.000 ng/ml
2) t 2,2,4-Trimethylpentane	7.422	852119	30.000 ng/ml
3) t n-Heptane	7.757	256281	10.000 ng/ml
4) t Benzene	7.894	348429	10.000 ng/ml
6) t Toluene	10.625	1082268	30.000 ng/ml
7) t Ethylbenzene	13.060	320506	10.000 ng/ml
8) t m-Xylene	13.193	664306	20.000 ng/ml
9) t O-Xylene	13.921	635251	20.000 ng/ml
10) t 1,2,4-Trimethylbenzene	16.195	541650	20.000 ng/ml

(f)=RT Delta > 1/2 Window

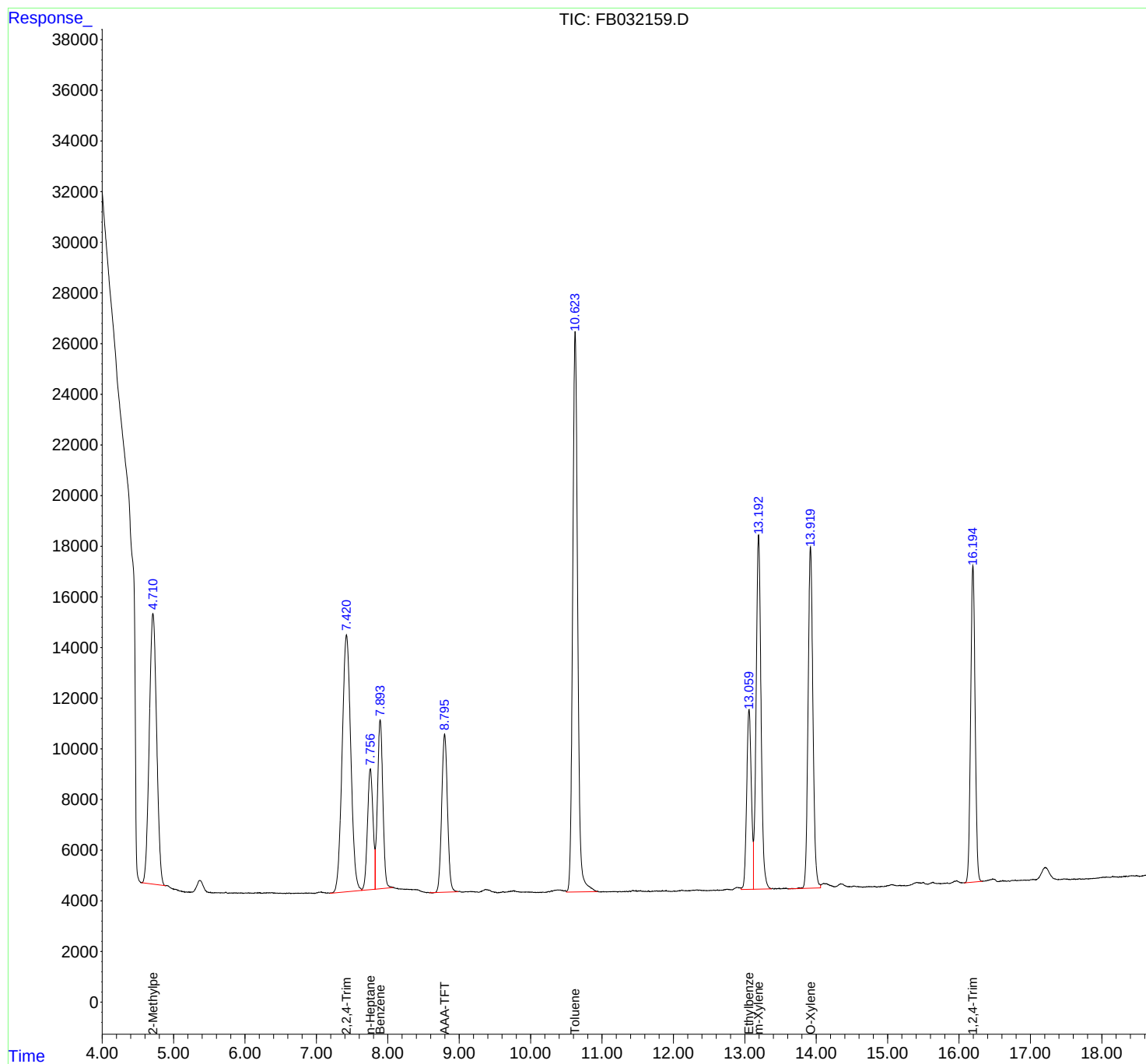
(m)=manual int.

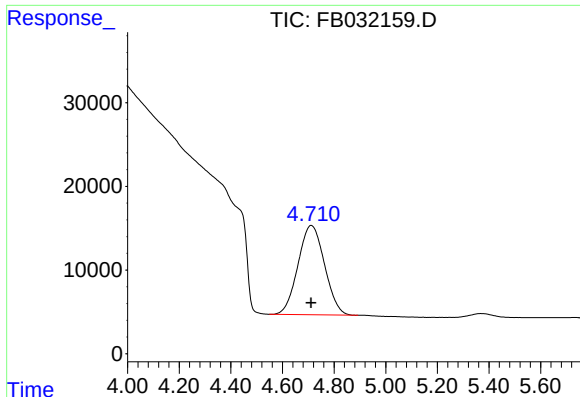
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032159.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 10:07
Operator : YP/AJ
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 GRO STD

Integration File: Calibration.e
Quant Time: Aug 21 10:00:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:00:25 2025
Response via : Initial Calibration
Integrator: ChemStation

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

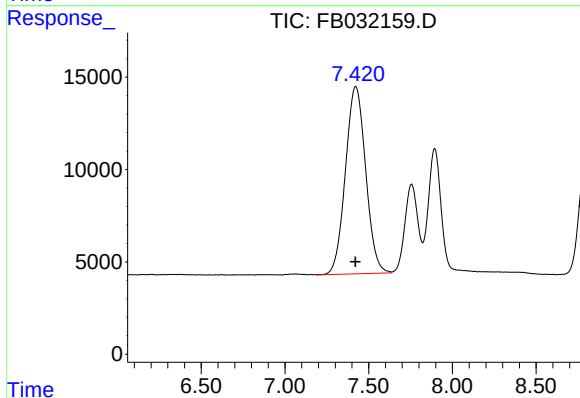




#1 2-Methylpentane

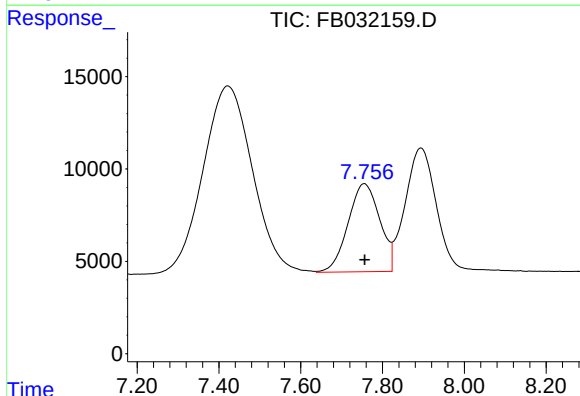
R.T.: 4.711 min
Delta R.T.: 0.000 min
Response: 762805
Conc: 30.00 ng/ml

Instrument :
FID_B
ClientSampleId :
20 GRO STD



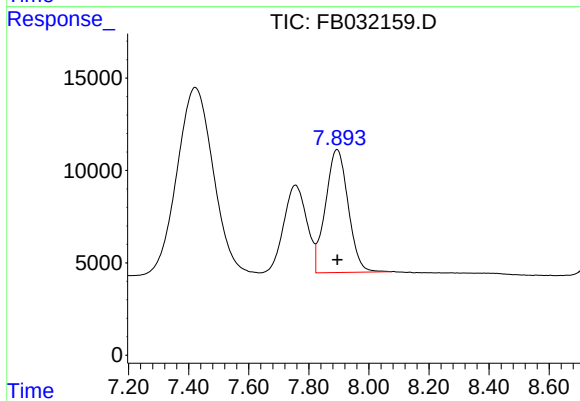
#2 2,2,4-Trimethylpentane

R.T.: 7.422 min
Delta R.T.: 0.000 min
Response: 852119
Conc: 30.00 ng/ml



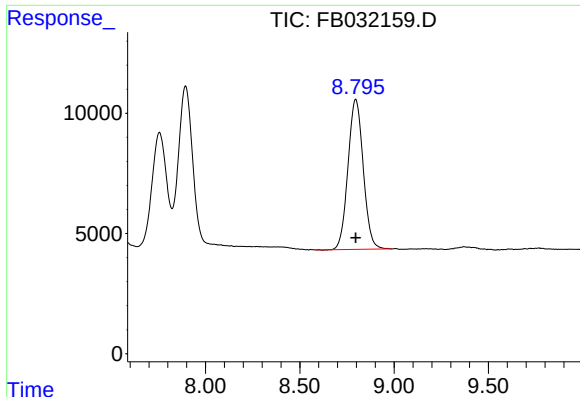
#3 n-Heptane

R.T.: 7.757 min
Delta R.T.: 0.000 min
Response: 256281
Conc: 10.00 ng/ml



#4 Benzene

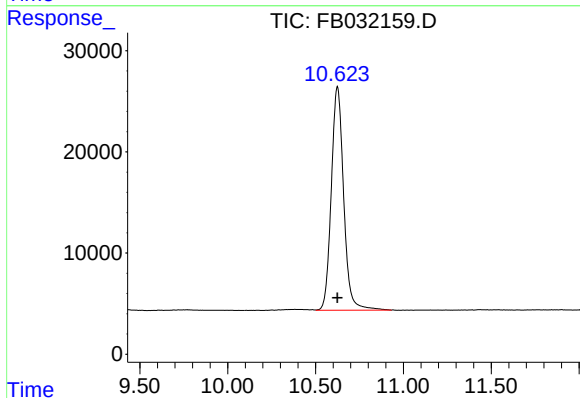
R.T.: 7.894 min
Delta R.T.: 0.000 min
Response: 348429
Conc: 10.00 ng/ml



#5 AAA-TFT

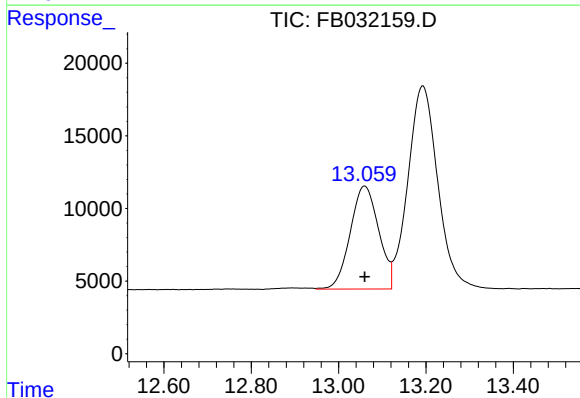
R.T.: 8.797 min
Delta R.T.: 0.000 min
Response: 350706
Conc: 20.00 ng/ml

Instrument :
FID_B
ClientSampleId :
20 GRO STD



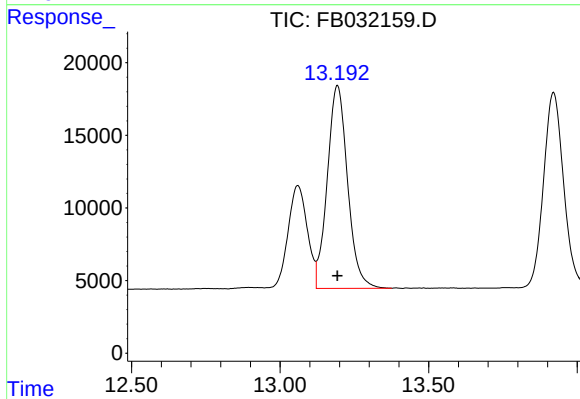
#6 Toluene

R.T.: 10.625 min
Delta R.T.: 0.000 min
Response: 1082268
Conc: 30.00 ng/ml



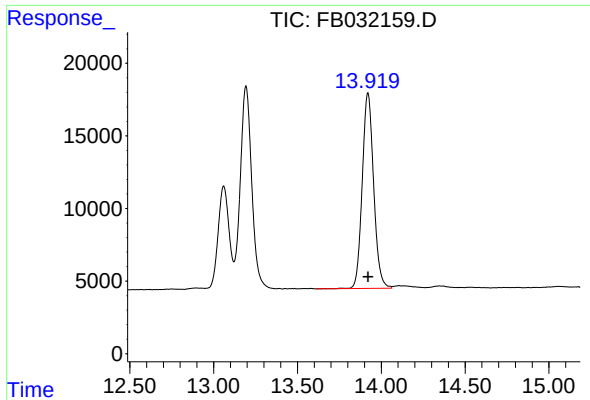
#7 Ethylbenzene

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 320506
Conc: 10.00 ng/ml



#8 m-Xylene

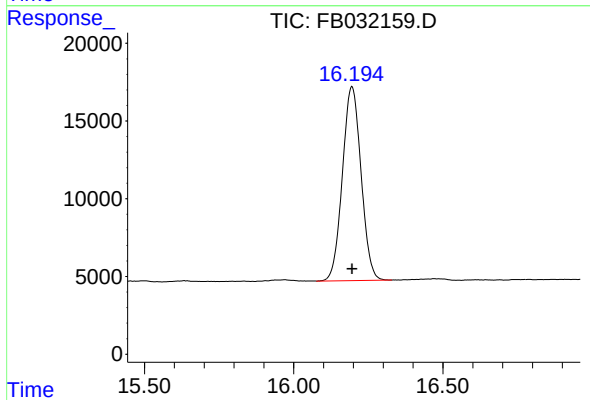
R.T.: 13.193 min
Delta R.T.: 0.000 min
Response: 664306
Conc: 20.00 ng/ml



#9 O-Xylene

R.T.: 13.921 min
Delta R.T.: 0.000 min
Response: 635251
Conc: 20.00 ng/ml

Instrument :
FID_B
ClientSampleId :
20 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.195 min
Delta R.T.: 0.000 min
Response: 541650
Conc: 20.00 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032159.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 10:07
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.711	4.548	4.893	BV	10682	762805	70.48%	13.119%
2	7.422	7.187	7.638	PV	10149	852119	78.73%	14.656%
3	7.757	7.638	7.823	VV	4772	256281	23.68%	4.408%
4	7.894	7.823	8.075	VV	6663	348429	32.19%	5.993%
5	8.797	8.587	8.988	BV	6246	350706	32.40%	6.032%
6	10.625	10.503	10.933	VV	22116	1082268	100.00%	18.614%
7	13.060	12.948	13.121	VV	7103	320506	29.61%	5.512%
8	13.193	13.121	13.376	VV	13990	664306	61.38%	11.425%
9	13.921	13.611	14.062	BV	13474	635251	58.70%	10.926%
10	16.195	16.075	16.329	PV	12495	541650	50.05%	9.316%

Sum of corrected areas: 5814320

FB082125.M Fri Aug 22 07:17:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
 Data File : FB032160.D
 Signal(s) : FID2B.CH
 Acq On : 21 Aug 2025 10:34
 Operator : YP/AJ
 Sample : 50 GRO STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 50 GRO STD

Integration File: Calibration.e
 Quant Time: Aug 21 10:22:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:05:43 2025
 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	8.795	846895	48.691 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.710	2025057	99.810 ng/ml
2) t 2,2,4-Trimethylpentane	7.424	2191055	94.621 ng/ml
3) t n-Heptane	7.755	699948	36.171 ng/ml
4) t Benzene	7.893	918510	32.050 ng/ml
6) t Toluene	10.624	2680872	86.499 ng/ml
7) t Ethylbenzene	13.060	782629	28.156 ng/ml
8) t m-Xylene	13.193	1619157	56.541 ng/ml
9) t O-Xylene	13.921	1537073	55.819 ng/ml
10) t 1,2,4-Trimethylbenzene	16.196	1298879	49.229 ng/ml

(f)=RT Delta > 1/2 Window

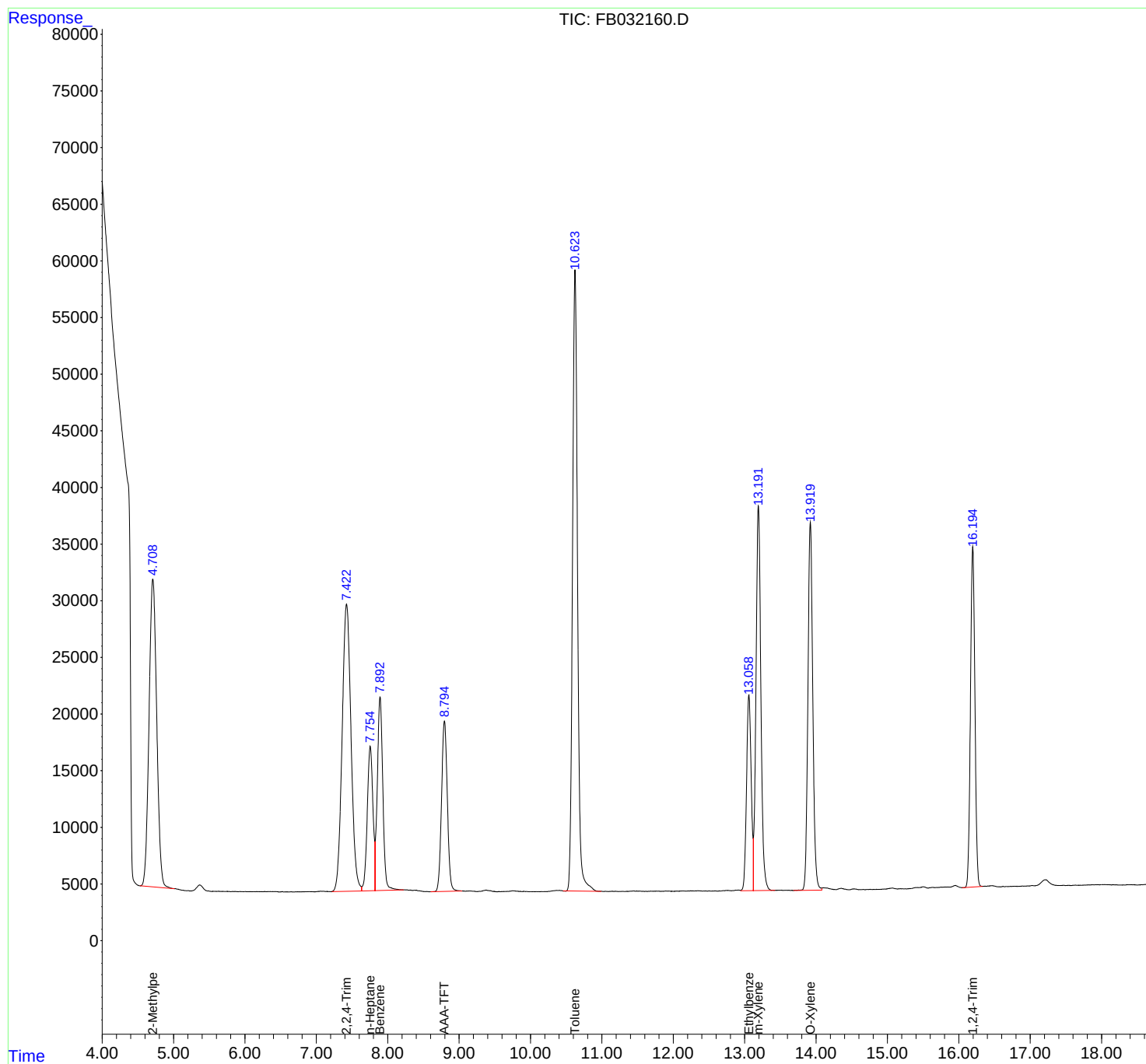
(m)=manual int.

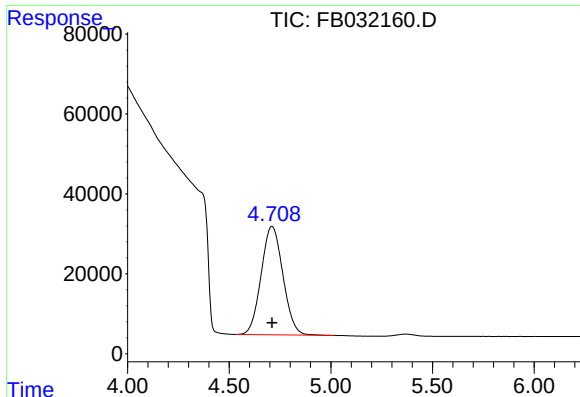
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032160.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 10:34
Operator : YP/AJ
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
50 GRO STD

Integration File: Calibration.e
Quant Time: Aug 21 10:22:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:05:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

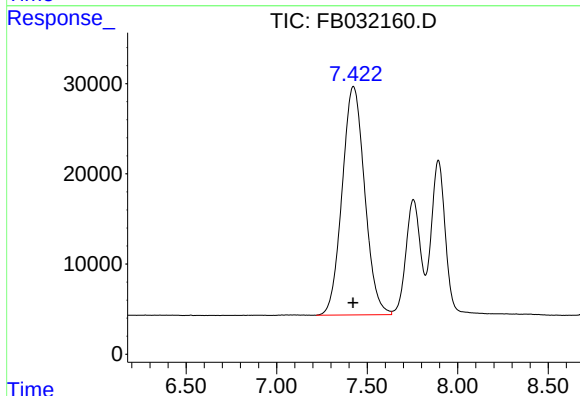




#1 2-Methylpentane

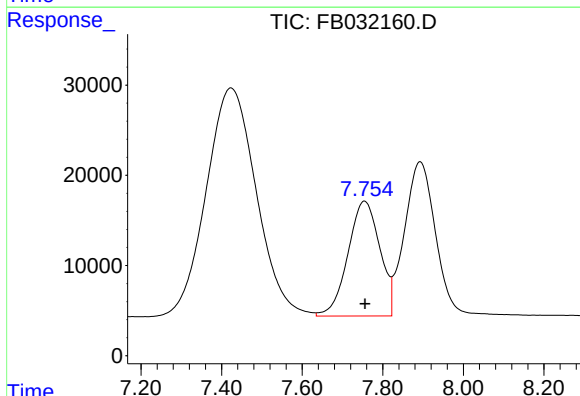
R.T.: 4.710 min
Delta R.T.: -0.001 min
Response: 2025057
Conc: 99.81 ng/ml

Instrument :
FID_B
ClientSampleId :
50 GRO STD



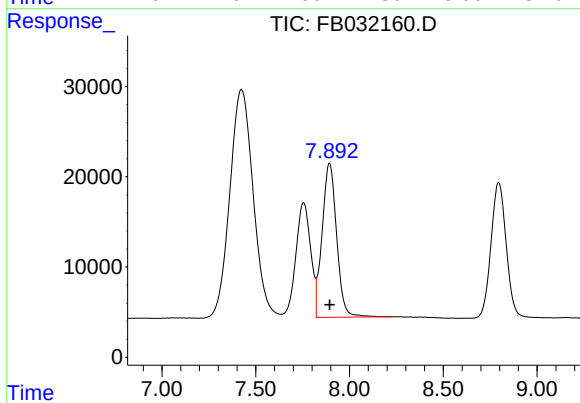
#2 2,2,4-Trimethylpentane

R.T.: 7.424 min
Delta R.T.: 0.002 min
Response: 2191055
Conc: 94.62 ng/ml



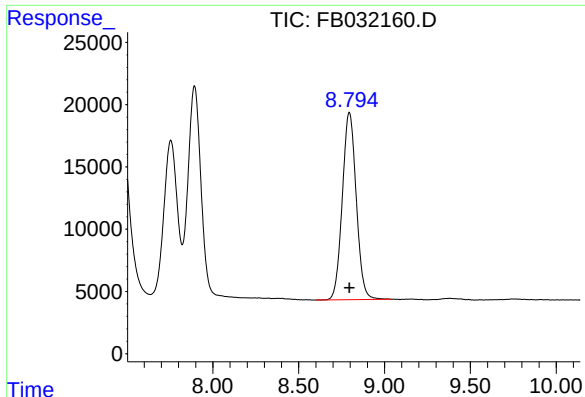
#3 n-Heptane

R.T.: 7.755 min
Delta R.T.: -0.001 min
Response: 699948
Conc: 36.17 ng/ml



#4 Benzene

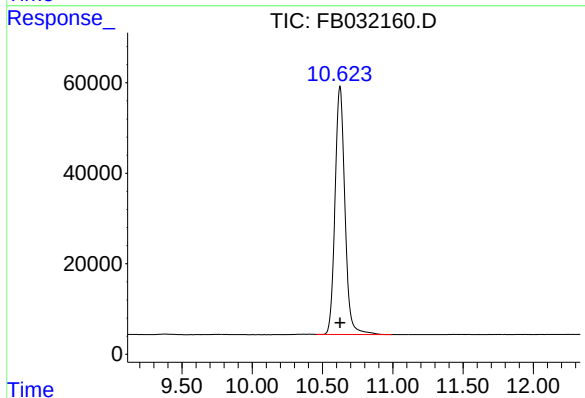
R.T.: 7.893 min
Delta R.T.: -0.001 min
Response: 918510
Conc: 32.05 ng/ml



#5 AAA-TFT

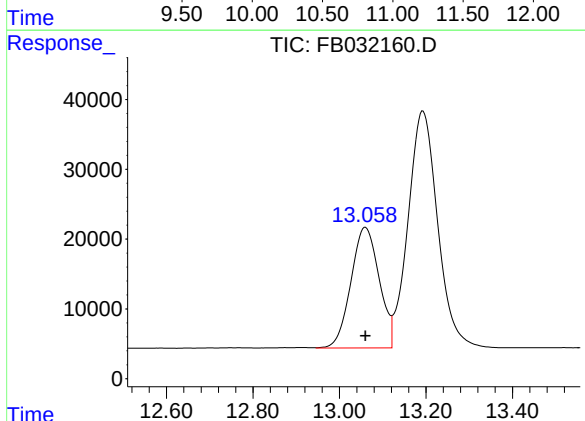
R.T.: 8.795 min
Delta R.T.: -0.001 min
Response: 846895
Conc: 48.69 ng/ml

Instrument :
FID_B
ClientSampleId :
50 GRO STD



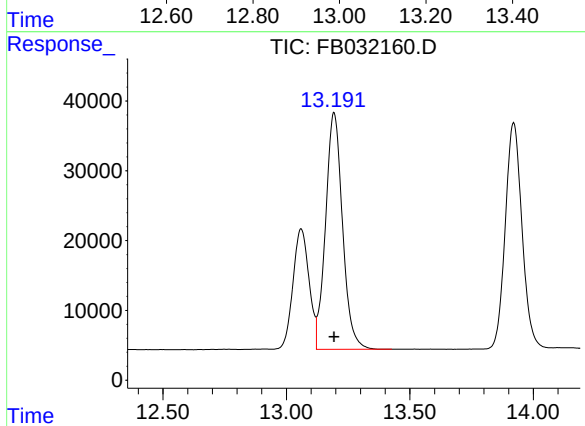
#6 Toluene

R.T.: 10.624 min
Delta R.T.: 0.000 min
Response: 2680872
Conc: 86.50 ng/ml



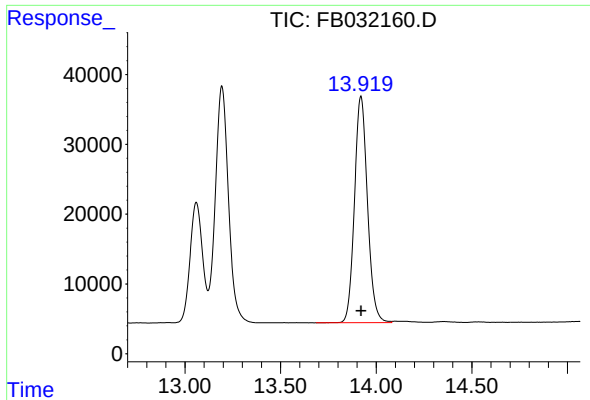
#7 Ethylbenzene

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 782629
Conc: 28.16 ng/ml



#8 m-Xylene

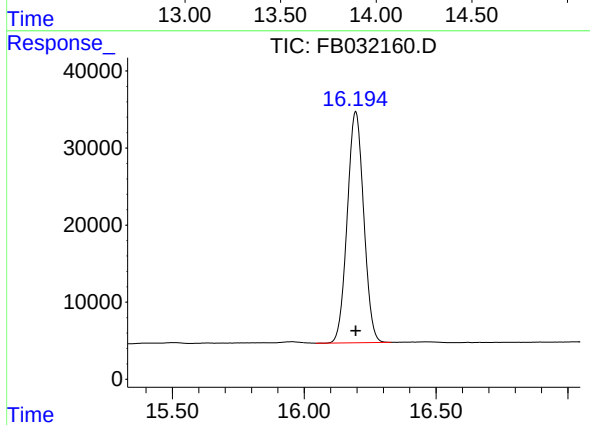
R.T.: 13.193 min
Delta R.T.: 0.000 min
Response: 1619157
Conc: 56.54 ng/ml



#9 O-Xylene

R.T.: 13.921 min
Delta R.T.: 0.000 min
Response: 1537073
Conc: 55.82 ng/ml

Instrument :
FID_B
ClientSampleId :
50 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.196 min
Delta R.T.: 0.000 min
Response: 1298879
Conc: 49.23 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032160.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 10:34
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.710	4.532	5.016	BV	27170	2025057	75.54%	13.870%
2	7.424	7.218	7.635	PV	25351	2191055	81.73%	15.007%
3	7.755	7.635	7.822	VV	12752	699948	26.11%	4.794%
4	7.893	7.822	8.225	VV	17090	918510	34.26%	6.291%
5	8.795	8.601	9.041	BV	15038	846895	31.59%	5.801%
6	10.624	10.455	10.992	BV	54809	2680872	100.00%	18.362%
7	13.060	12.946	13.121	VV	17290	782629	29.19%	5.360%
8	13.193	13.121	13.427	VB	33952	1619157	60.40%	11.090%
9	13.921	13.686	14.081	BV	32456	1537073	57.33%	10.528%
10	16.196	16.043	16.330	PV	30032	1298879	48.45%	8.896%

Sum of corrected areas: 14600075

FB082125.M Fri Aug 22 07:19:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
 Data File : FB032161.D
 Signal(s) : FID2B.CH
 Acq On : 21 Aug 2025 11:02
 Operator : YP/AJ
 Sample : 100 GRO STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

FID_B

ClientSampleId :

100 GRO STD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/22/2025

Supervised By :mohammad ahmed 08/25/2025

Integration File: Calibration.e
 Quant Time: Aug 21 10:49:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:25:08 2025
 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	8.795	1693084	97.983 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.706	3888384	177.010 ng/mlm
2) t 2,2,4-Trimethylpentane	7.425	4397128	178.234 ng/ml
3) t n-Heptane	7.754	1411682	65.621 ng/ml
4) t Benzene	7.893	1820606	59.343 ng/ml
6) t Toluene	10.625	5290555	164.399 ng/ml
7) t Ethylbenzene	13.061	1524800	53.179 ng/ml
8) t m-Xylene	13.194	3140184	106.182 ng/ml
9) t O-Xylene	13.922	2958275	104.393 ng/ml
10) t 1,2,4-Trimethylbenzene	16.197	2484051	94.513 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032161.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 11:02
Operator : YP/AJ
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

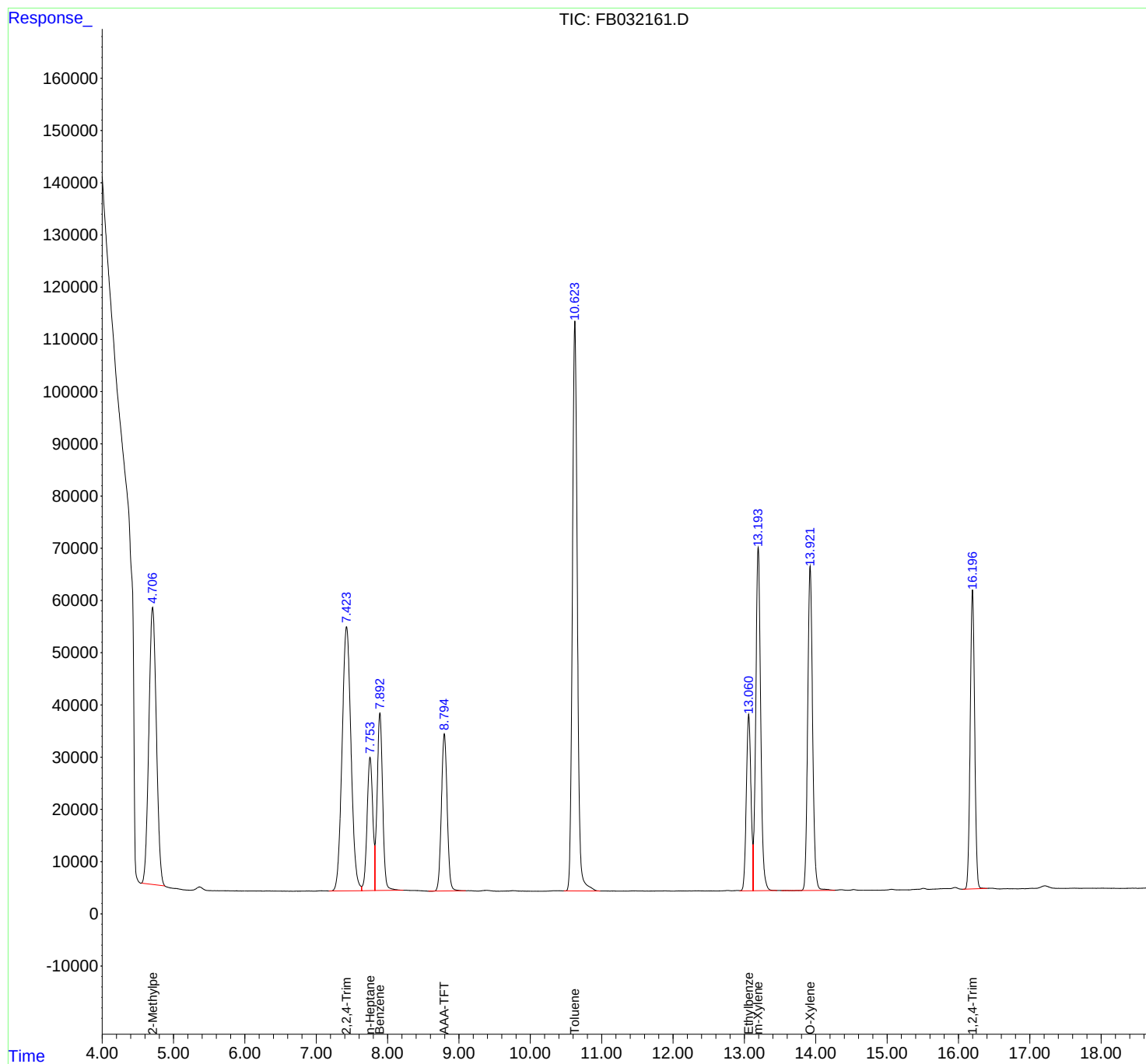
Instrument :
FID_B
ClientSampleId :
100 GRO STD

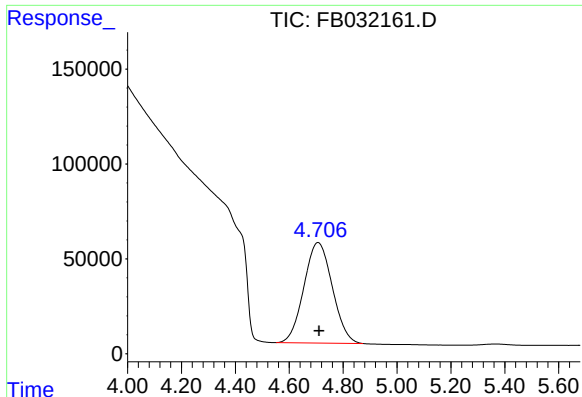
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025

Integration File: Calibration.e
Quant Time: Aug 21 10:49:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:25:08 2025
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.: 4.706 min
Delta R.T.: -0.005 min
Response: 3888384
Conc: 177.01 ng/ml

Instrument :

FID_B

ClientSampleId :

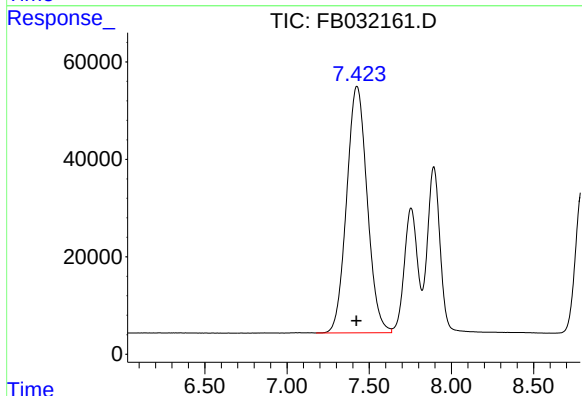
100 GRO STD

Manual Integrations

APPROVED

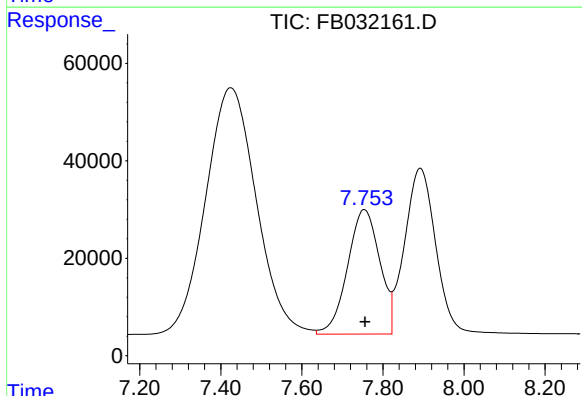
Reviewed By :Yogesh Patel 08/22/2025

Supervised By :mohammad ahmed 08/25/2025



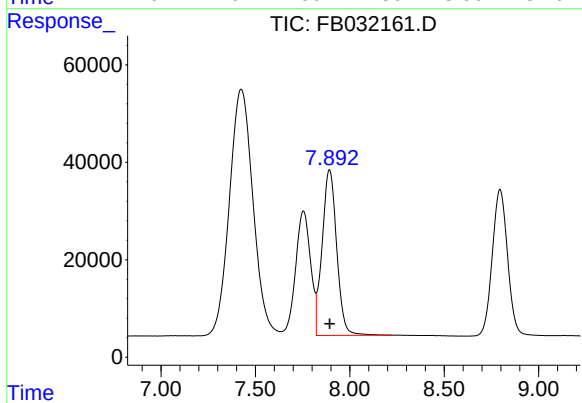
#2 2,2,4-Trimethylpentane

R.T.: 7.425 min
Delta R.T.: 0.003 min
Response: 4397128
Conc: 178.23 ng/ml



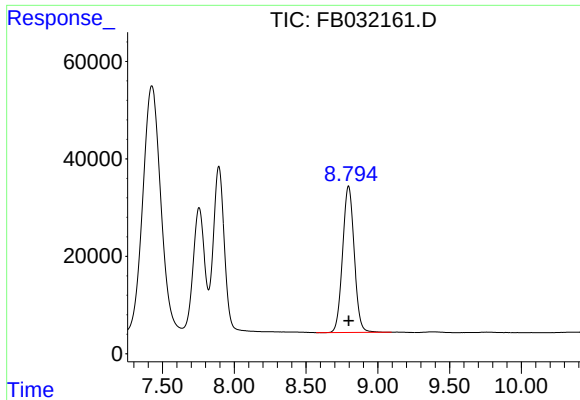
#3 n-Heptane

R.T.: 7.754 min
Delta R.T.: -0.003 min
Response: 1411682
Conc: 65.62 ng/ml



#4 Benzene

R.T.: 7.893 min
Delta R.T.: -0.002 min
Response: 1820606
Conc: 59.34 ng/ml



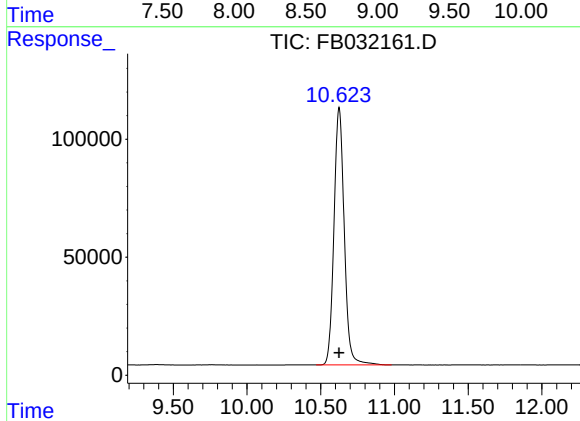
#5 AAA-TFT

R.T.: 8.795 min
Delta R.T.: -0.001 min
Response: 1693084
Conc: 97.98 ng/ml

Instrument :
FID_B
ClientSampleId :
100 GRO STD

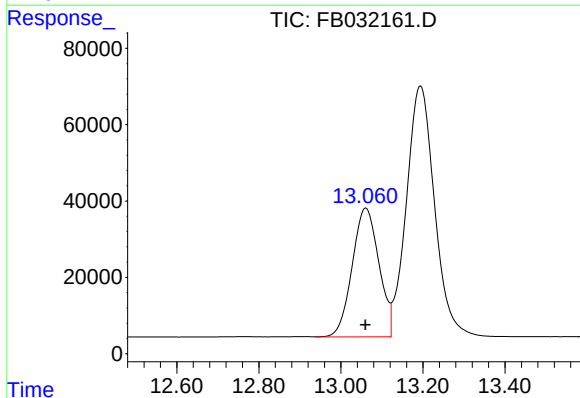
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



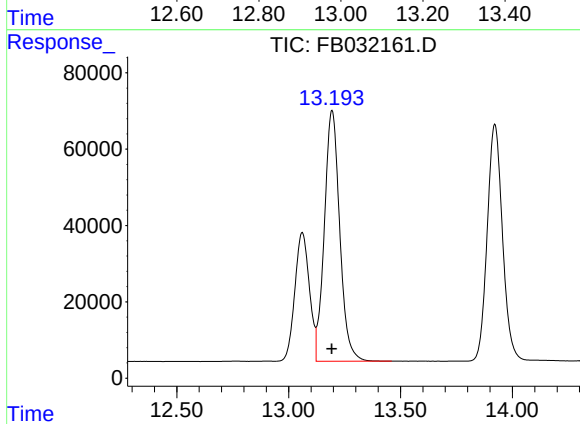
#6 Toluene

R.T.: 10.625 min
Delta R.T.: 0.000 min
Response: 5290555
Conc: 164.40 ng/ml



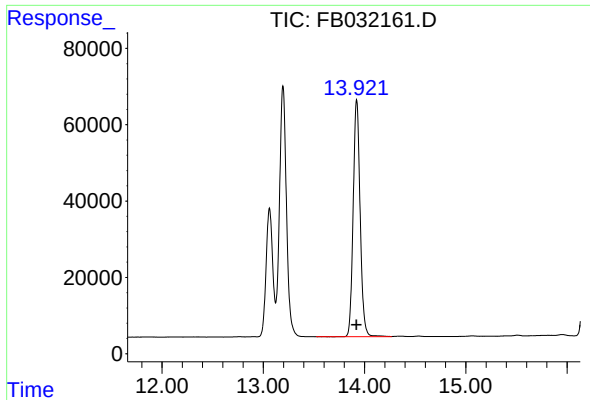
#7 Ethylbenzene

R.T.: 13.061 min
Delta R.T.: 0.001 min
Response: 1524800
Conc: 53.18 ng/ml



#8 m-Xylene

R.T.: 13.194 min
Delta R.T.: 0.001 min
Response: 3140184
Conc: 106.18 ng/ml



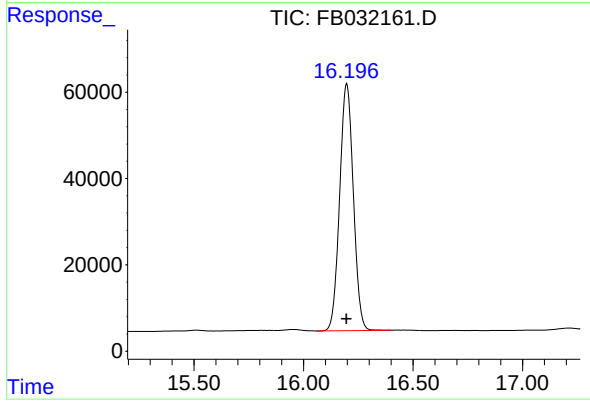
#9 O-Xylene

R.T.: 13.922 min
Delta R.T.: 0.001 min
Response: 2958275
Conc: 104.39 ng/ml

Instrument :
FID_B
ClientSampleId :
100 GRO STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2025
Supervised By :mohammad ahmed 08/25/2025



#10 1,2,4-Trimethylbenzene

R.T.: 16.197 min
Delta R.T.: 0.002 min
Response: 2484051
Conc: 94.51 ng/ml

rteres

Instrument :

FID_B

LabSampleId :

100 GRO STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/22/2025

Supervised By :mohammad ahmed 08/25/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125
Data File : FB032161.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 11:02
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.707	4.537	5.155	BV	53160	3911915	73.94%	13.663%
2	7.425	7.176	7.636	PV	50586	4397128	83.11%	15.357%
3	7.754	7.636	7.822	VV	25565	1411682	26.68%	4.930%
4	7.893	7.822	8.222	VV	34030	1820606	34.41%	6.359%
5	8.795	8.570	9.096	BV	30088	1693084	32.00%	5.913%
6	10.625	10.468	10.981	BV	109052	5290555	100.00%	18.478%
7	13.061	12.938	13.122	VV	33757	1524800	28.82%	5.325%
8	13.194	13.122	13.461	VV	65726	3140184	59.35%	10.967%
9	13.922	13.522	14.268	BV	62073	2958275	55.92%	10.332%
10	16.197	16.057	16.403	PBA	57221	2484051	46.95%	8.676%

Sum of corrected areas: 28632280

FB082125.M Fri Aug 22 07:19:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
 Data File : FB032162.D
 Signal(s) : FID2B.CH
 Acq On : 21 Aug 2025 12:18
 Operator : YP/AJ
 Sample : FB082125GROICV
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 FB082125GROICV

Integration File: Calibration.e
 Quant Time: Aug 22 06:58:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.795	345910	20.100 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.710	748582	32.698 ng/ml
2) t 2,2,4-Trimethylpentane	7.422	886911	34.646 ng/ml
3) t n-Heptane	7.754	271859	11.045 ng/ml
4) t Benzene	7.892	357244	11.225 ng/ml
6) t Toluene	10.623	1085489	33.095 ng/ml
7) t Ethylbenzene	13.060	327331	11.273 ng/ml
8) t m-Xylene	13.192	679905	22.709 ng/ml
9) t O-Xylene	13.920	653000	22.843 ng/ml
10) t 1,2,4-Trimethylbenzene	16.195	584441	22.483 ng/ml

(f)=RT Delta > 1/2 Window

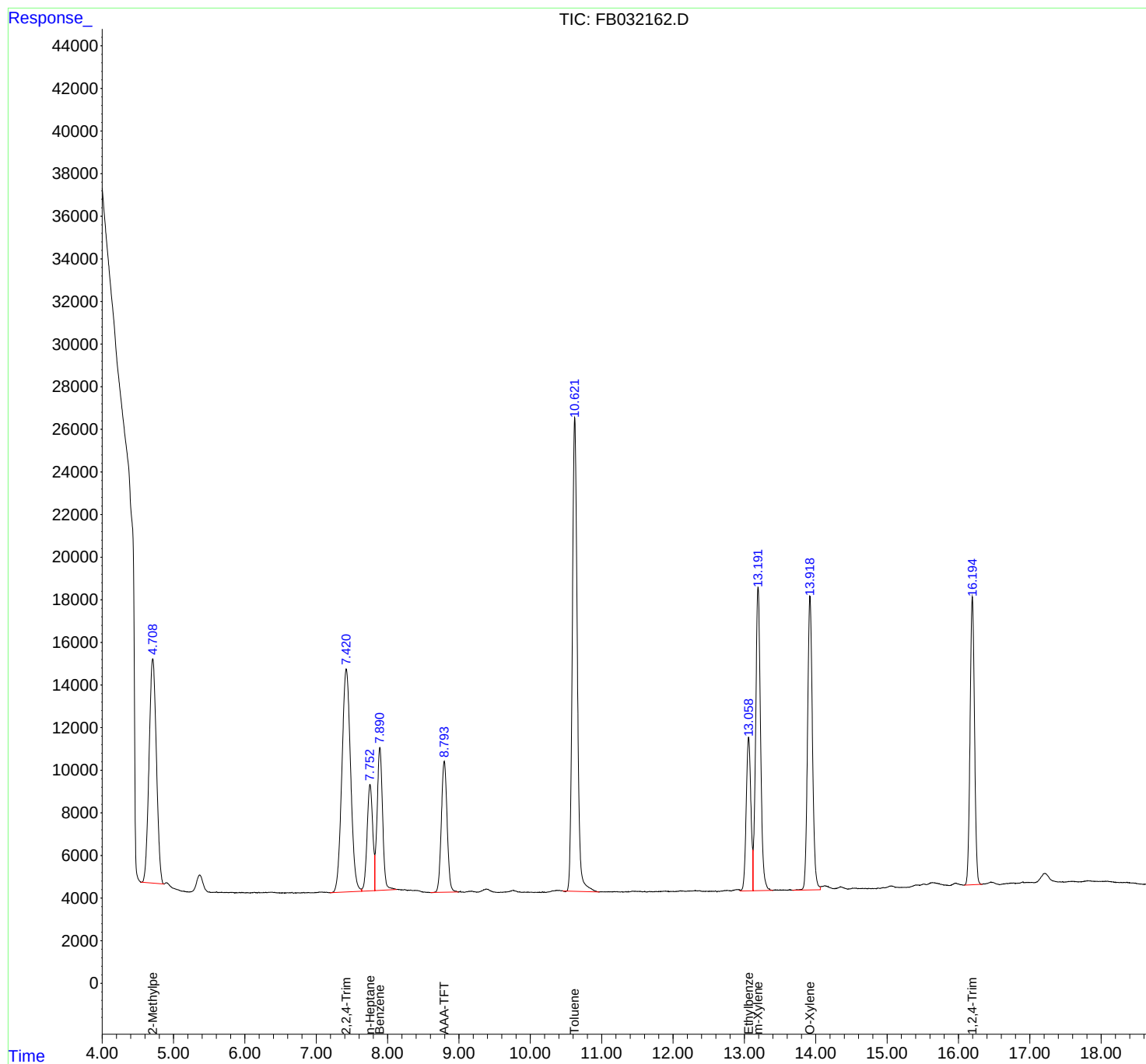
(m)=manual int.

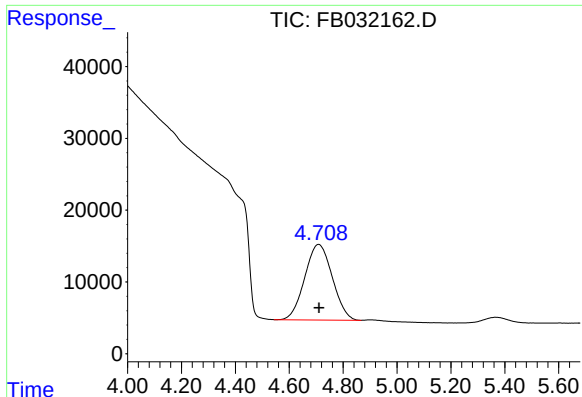
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032162.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 12:18
Operator : YP/AJ
Sample : FB082125GROICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
FB082125GROICV

Integration File: Calibration.e
Quant Time: Aug 22 06:58:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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

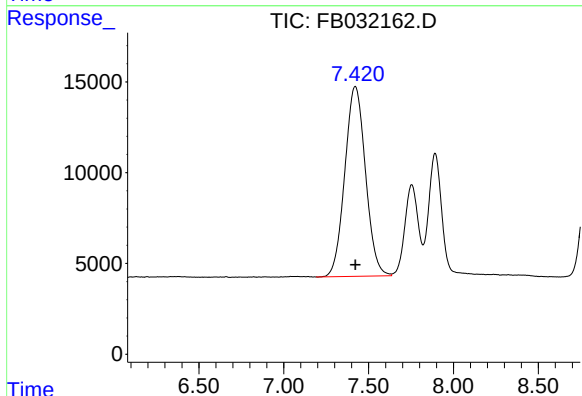




#1 2-Methylpentane

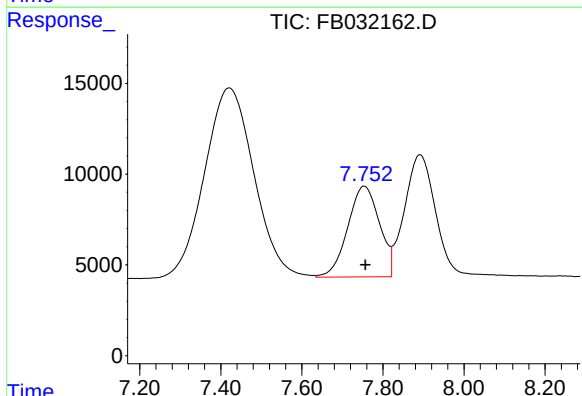
R.T.: 4.710 min
Delta R.T.: -0.001 min
Response: 748582
Conc: 32.70 ng/ml

Instrument :
FID_B
ClientSampleId :
FB082125GROICV



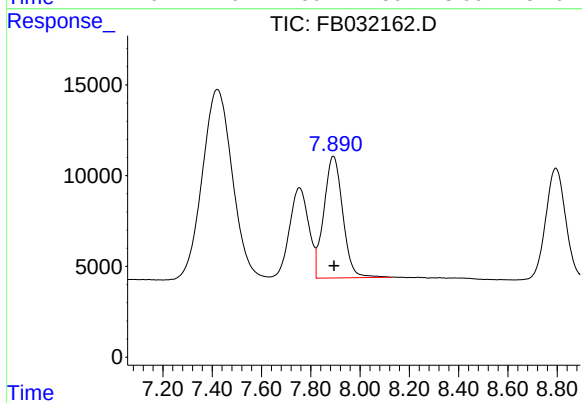
#2 2,2,4-Trimethylpentane

R.T.: 7.422 min
Delta R.T.: 0.000 min
Response: 886911
Conc: 34.65 ng/ml



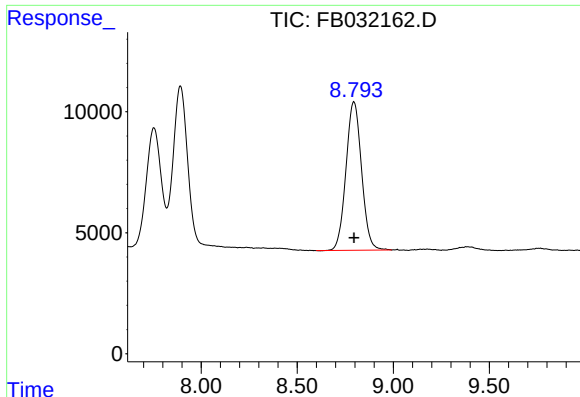
#3 n-Heptane

R.T.: 7.754 min
Delta R.T.: -0.003 min
Response: 271859
Conc: 11.04 ng/ml



#4 Benzene

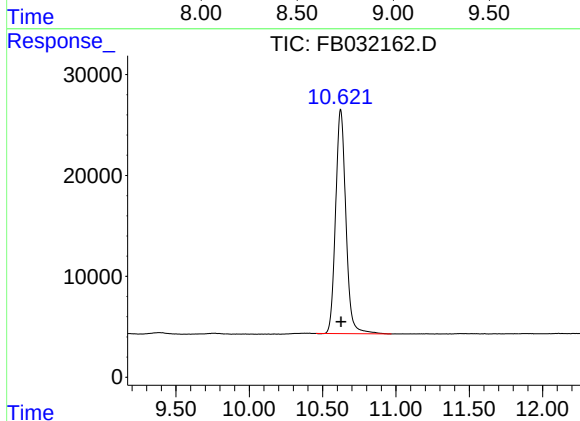
R.T.: 7.892 min
Delta R.T.: -0.003 min
Response: 357244
Conc: 11.22 ng/ml



#5 AAA-TFT

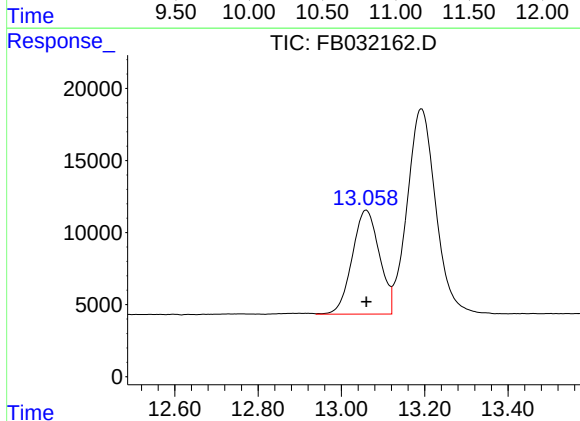
R.T.: 8.795 min
Delta R.T.: -0.002 min
Response: 345910
Conc: 20.10 ng/ml

Instrument :
FID_B
ClientSampleId :
FB082125GROICV



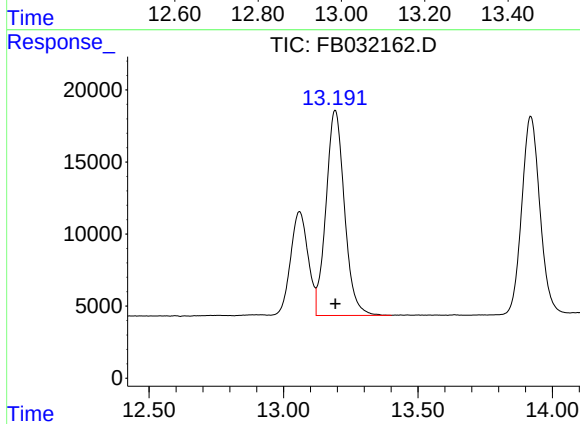
#6 Toluene

R.T.: 10.623 min
Delta R.T.: -0.002 min
Response: 1085489
Conc: 33.10 ng/ml



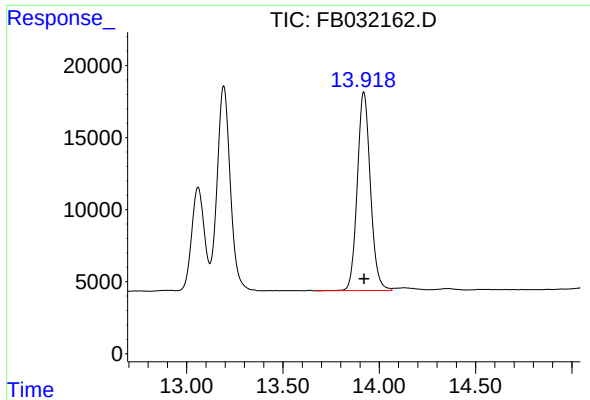
#7 Ethylbenzene

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 327331
Conc: 11.27 ng/ml



#8 m-Xylene

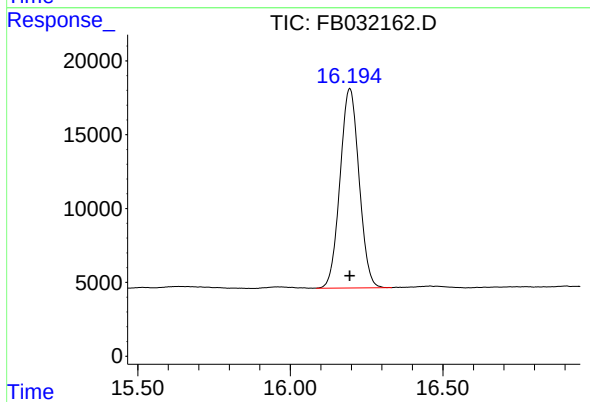
R.T.: 13.192 min
Delta R.T.: 0.000 min
Response: 679905
Conc: 22.71 ng/ml



#9 O-Xylene

R.T.: 13.920 min
Delta R.T.: 0.000 min
Response: 653000
Conc: 22.84 ng/ml

Instrument :
FID_B
ClientSampleId :
FB082125GROICV



#10 1,2,4-Trimethylbenzene

R.T.: 16.195 min
Delta R.T.: 0.000 min
Response: 584441
Conc: 22.48 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB082125\
Data File : FB032162.D
Signal(s) : FID2B.CH
Acq On : 21 Aug 2025 12:18
Sample : FB082125GR0ICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.710	4.543	4.868	BV	10530	748582	68.96%	12.601%
2	7.422	7.190	7.635	PV	10466	886911	81.71%	14.929%
3	7.754	7.635	7.821	VV	5000	271859	25.04%	4.576%
4	7.892	7.821	8.128	VV	6706	357244	32.91%	6.014%
5	8.795	8.598	8.992	BV	6142	345910	31.87%	5.823%
6	10.623	10.455	10.969	BV	22237	1085489	100.00%	18.272%
7	13.060	12.939	13.121	VV	7219	327331	30.16%	5.510%
8	13.192	13.121	13.402	VV	14247	679905	62.64%	11.445%
9	13.920	13.672	14.065	BV	13788	653000	60.16%	10.992%
10	16.195	16.085	16.333	BV	13514	584441	53.84%	9.838%

Sum of corrected areas: 5940670

FB082125.M Fri Aug 22 07:19:45 2025

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: ALLI03
ProjectID: NJ Waste Water PT
Lab Code: ACE SDG No.: Q3015
DataFile: FB032198.D Analyst Name: YP/AJ Analyst Date: 09-17-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5526467	30703	27689	10.885

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
 Data File : FB032198.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2025 11:26
 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 18 06:15:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.795	369441	21.467 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.712	787459	34.396 ng/ml
2) t 2,2,4-Trimethylpentane	7.423	911191	35.594 ng/ml
3) t n-Heptane	7.756	288831	11.734 ng/ml
4) t Benzene	7.893	342103	10.749 ng/ml
6) t Toluene	10.624	1068435	32.575 ng/ml
7) t Ethylbenzene	13.060	311685	10.734 ng/ml
8) t m-Xylene	13.193	652914	21.808 ng/ml
9) t O-Xylene	13.921	623291	21.803 ng/ml
10) t 1,2,4-Trimethylbenzene	16.195	540558	20.795 ng/ml

(f)=RT Delta > 1/2 Window

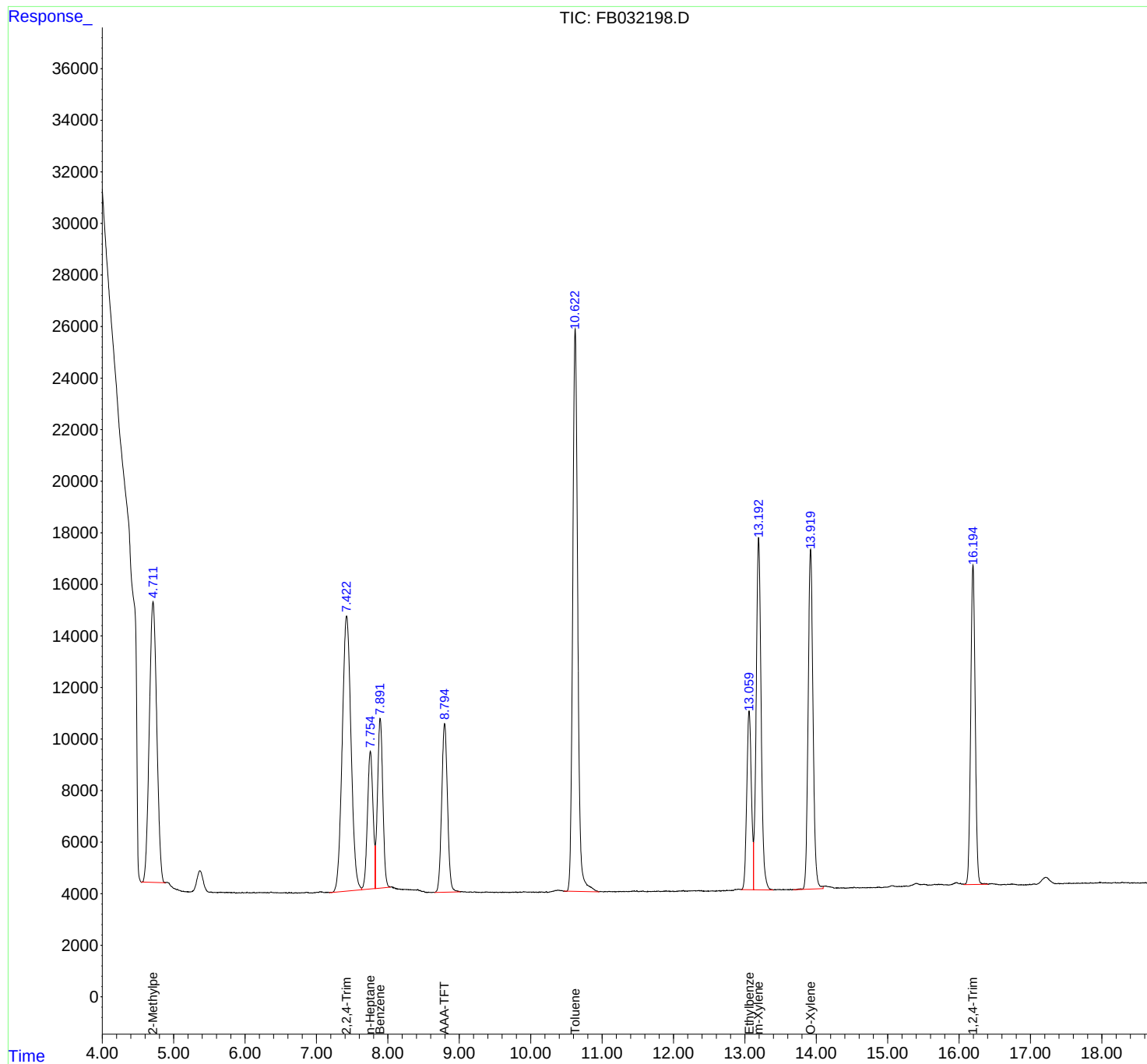
(m)=manual int.

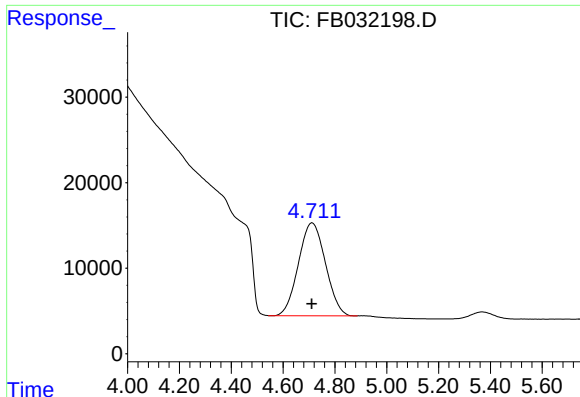
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032198.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 11:26
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Sep 18 06:15:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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

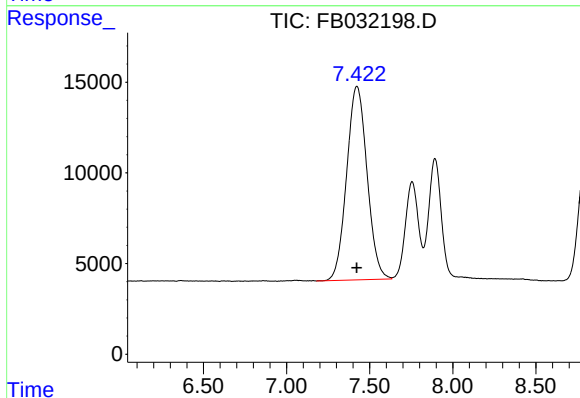




#1 2-Methylpentane

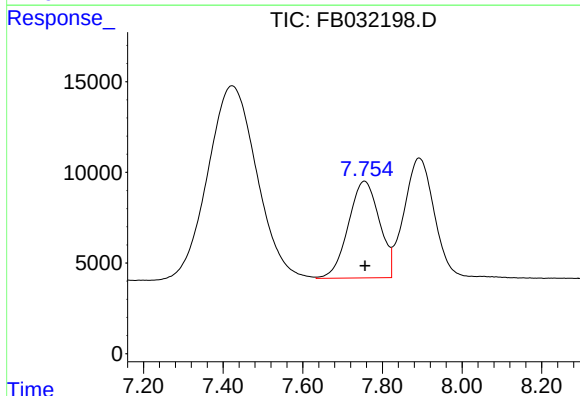
R.T.: 4.712 min
Delta R.T.: 0.001 min
Response: 787459
Conc: 34.40 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



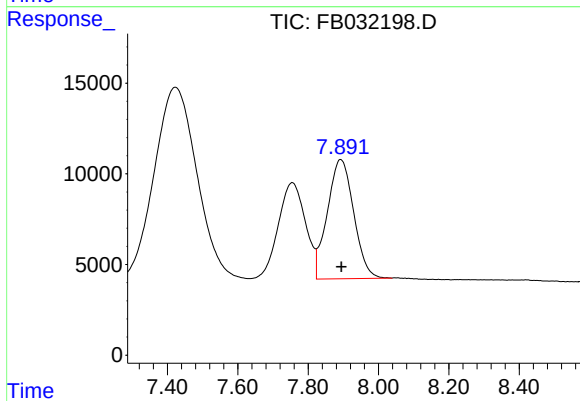
#2 2,2,4-Trimethylpentane

R.T.: 7.423 min
Delta R.T.: 0.001 min
Response: 911191
Conc: 35.59 ng/ml



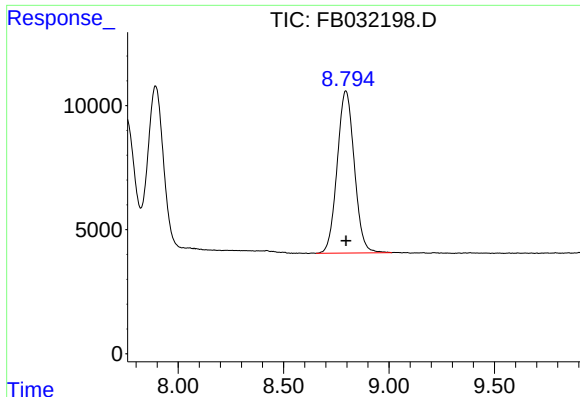
#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: -0.001 min
Response: 288831
Conc: 11.73 ng/ml



#4 Benzene

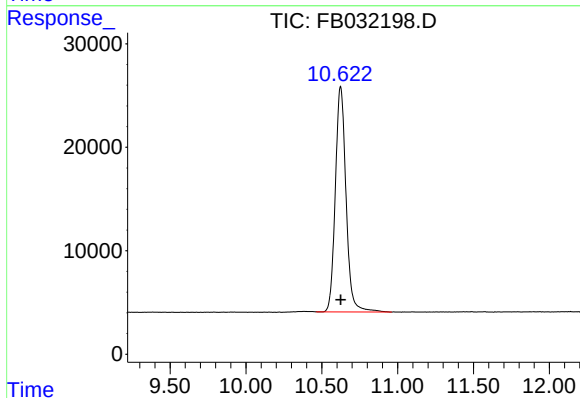
R.T.: 7.893 min
Delta R.T.: -0.002 min
Response: 342103
Conc: 10.75 ng/ml



#5 AAA-TFT

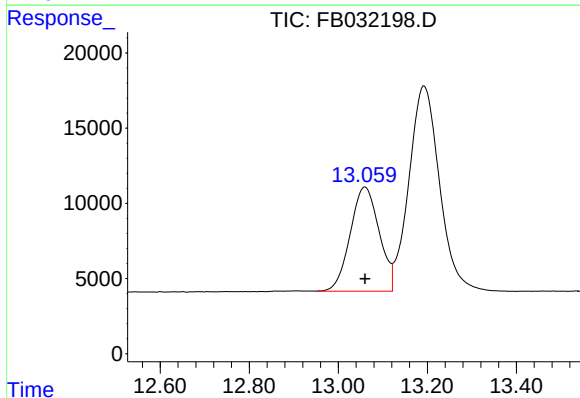
R.T.: 8.795 min
Delta R.T.: -0.001 min
Response: 369441
Conc: 21.47 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



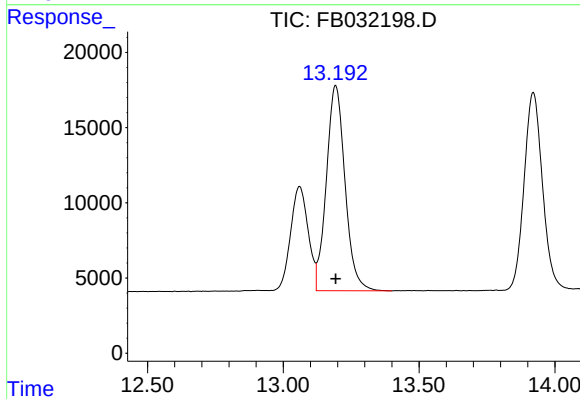
#6 Toluene

R.T.: 10.624 min
Delta R.T.: 0.000 min
Response: 1068435
Conc: 32.58 ng/ml



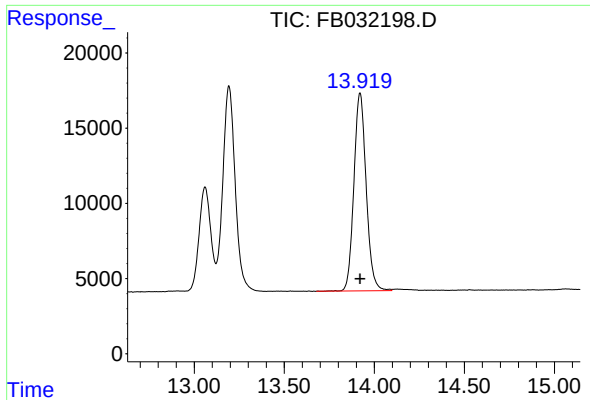
#7 Ethylbenzene

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 311685
Conc: 10.73 ng/ml



#8 m-Xylene

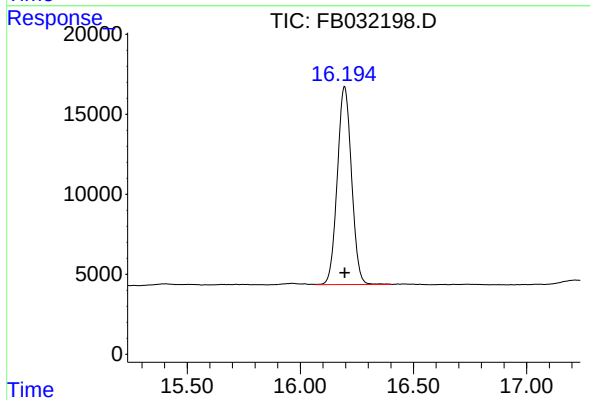
R.T.: 13.193 min
Delta R.T.: 0.000 min
Response: 652914
Conc: 21.81 ng/ml



#9 O-Xylene

R.T.: 13.921 min
Delta R.T.: 0.000 min
Response: 623291
Conc: 21.80 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.195 min
Delta R.T.: 0.000 min
Response: 540558
Conc: 20.80 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032198.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 11:26
Sample : 20 PPB GR0 STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibrat.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.711	4.551	4.861	M	10893	787510	74.04%	13.272%
2	7.423	7.180	7.634	PV	10710	919738	86.47%	15.501%
3	7.755	7.634	7.823	VV	5421	297426	27.96%	5.013%
4	7.893	7.823	8.206	VB	6671	361258	33.96%	6.088%
5	8.795	8.584	9.102	BB	6545	371750	34.95%	6.265%
6	10.624	10.505	10.910	BBA	21786	1063628	100.00%	17.926%
7	13.060	12.459	13.121	BV	6958	317311	29.83%	5.348%
8	13.193	13.121	13.391	VBA	13674	653976	61.49%	11.022%
9	13.921	13.678	14.097	BV	13147	620008	58.29%	10.449%
10	16.195	16.069	16.405	VV	12392	540875	50.85%	9.116%

Sum of corrected areas: 5933481

FB082125.M Mon Oct 06 09:14:45 2025

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: ALLI03
ProjectID: NJ Waste Water PT
Lab Code: ACE SDG No.: Q3015
DataFile: FB032205.D Analyst Name: YP/AJ Analyst Date: 09-17-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5483175	30462	27689	10.015

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
 Data File : FB032205.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2025 15:38
 Operator : YP/AJ
 Sample : 20 PPB GRO STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 PPB GRO STD

Integration File: Calibration.e
 Quant Time: Sep 18 04:08:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.799	365120	21.216 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.714	789598	34.489 ng/ml
2) t 2,2,4-Trimethylpentane	7.426	898469	35.097 ng/ml
3) t n-Heptane	7.758	283257	11.508 ng/ml
4) t Benzene	7.896	342276	10.755 ng/ml
6) t Toluene	10.627	1061932	32.377 ng/ml
7) t Ethylbenzene	13.063	314545	10.832 ng/ml
8) t m-Xylene	13.197	651788	21.770 ng/ml
9) t O-Xylene	13.924	611320	21.385 ng/ml
10) t 1,2,4-Trimethylbenzene	16.199	529990	20.389 ng/ml

(f)=RT Delta > 1/2 Window

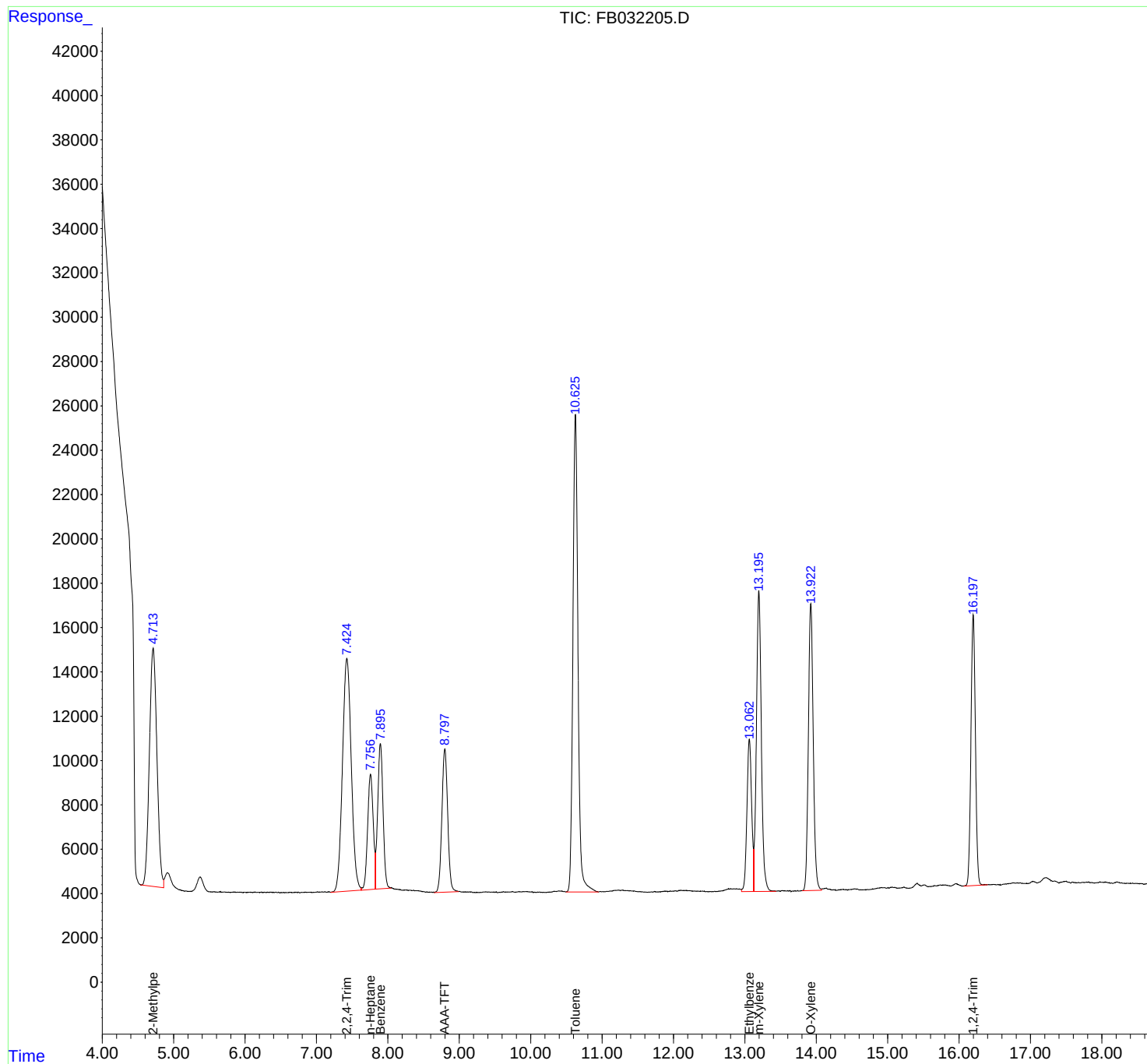
(m)=manual int.

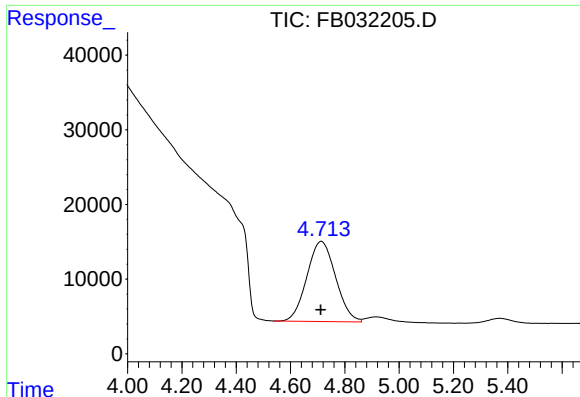
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032205.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 15:38
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Sep 18 04:08:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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

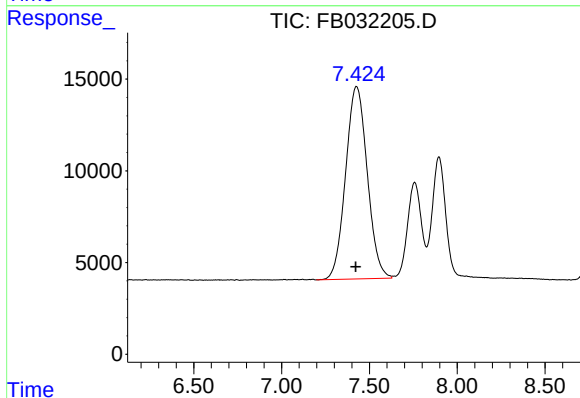




#1 2-Methylpentane

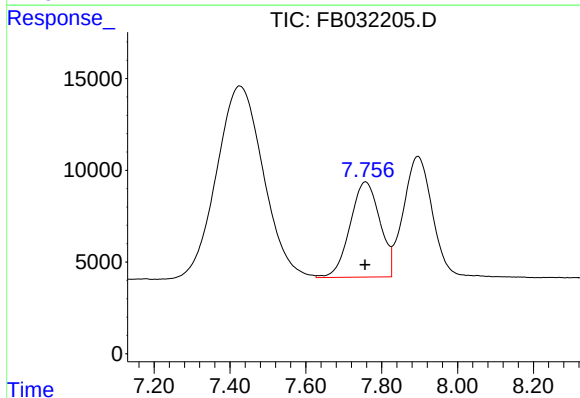
R.T.: 4.714 min
Delta R.T.: 0.003 min
Response: 789598
Conc: 34.49 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



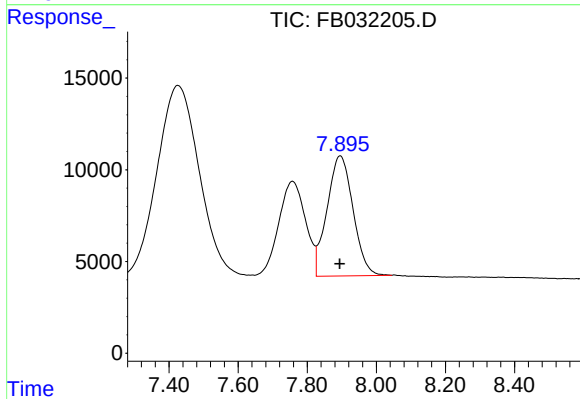
#2 2,2,4-Trimethylpentane

R.T.: 7.426 min
Delta R.T.: 0.004 min
Response: 898469
Conc: 35.10 ng/ml



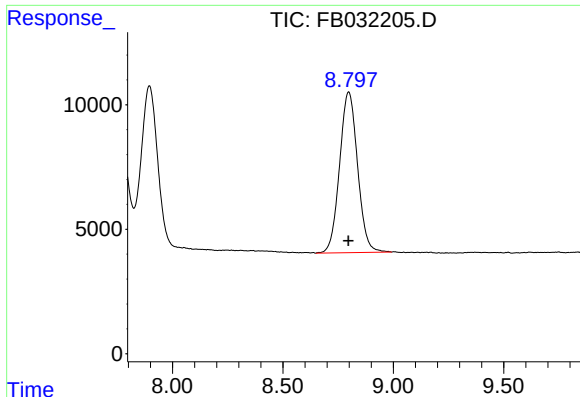
#3 n-Heptane

R.T.: 7.758 min
Delta R.T.: 0.001 min
Response: 283257
Conc: 11.51 ng/ml



#4 Benzene

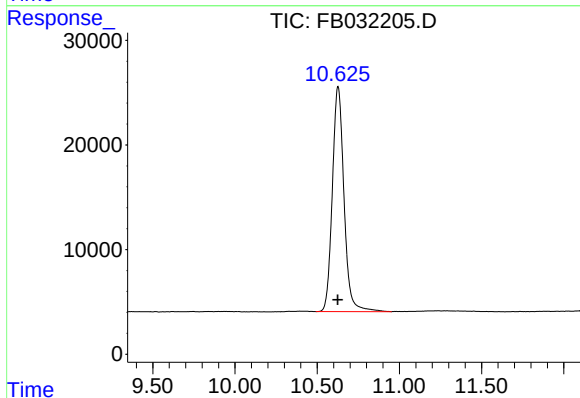
R.T.: 7.896 min
Delta R.T.: 0.002 min
Response: 342276
Conc: 10.75 ng/ml



#5 AAA-TFT

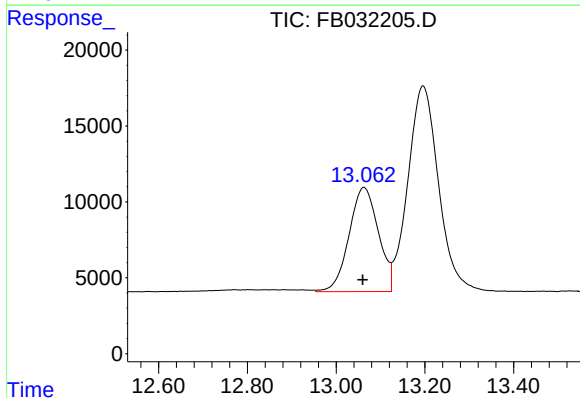
R.T.: 8.799 min
Delta R.T.: 0.002 min
Response: 365120
Conc: 21.22 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



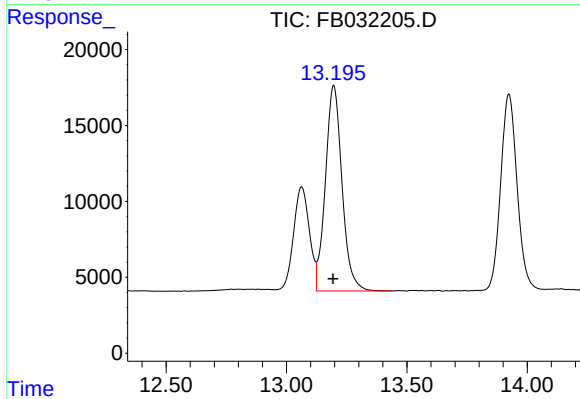
#6 Toluene

R.T.: 10.627 min
Delta R.T.: 0.002 min
Response: 1061932
Conc: 32.38 ng/ml



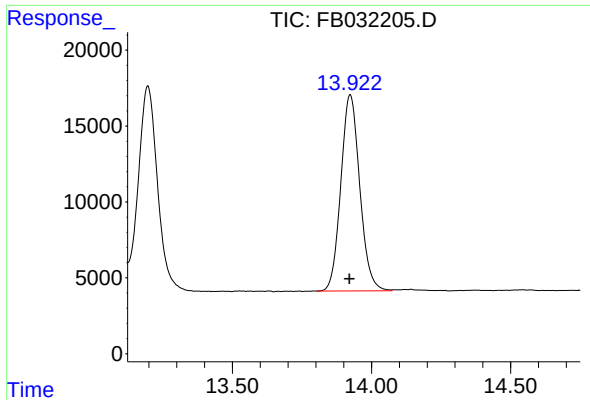
#7 Ethylbenzene

R.T.: 13.063 min
Delta R.T.: 0.003 min
Response: 314545
Conc: 10.83 ng/ml



#8 m-Xylene

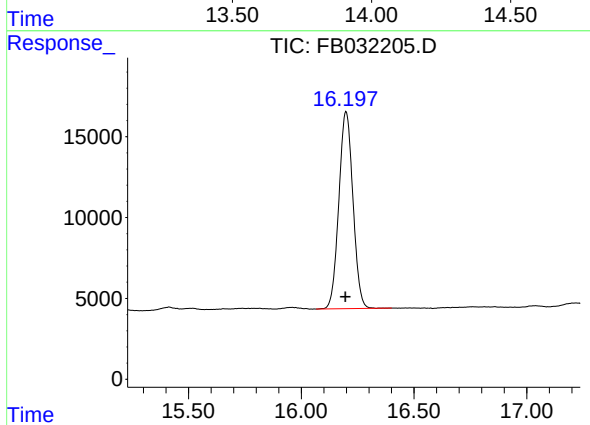
R.T.: 13.197 min
Delta R.T.: 0.003 min
Response: 651788
Conc: 21.77 ng/ml



#9 O-Xylene

R.T.: 13.924 min
Delta R.T.: 0.003 min
Response: 611320
Conc: 21.38 ng/ml

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.199 min
Delta R.T.: 0.003 min
Response: 529990
Conc: 20.39 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032205.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 15:38
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.714	4.537	4.861	BV	10751	789598	74.35%	13.501%
2	7.426	7.197	7.627	PV	10498	898469	84.61%	15.363%
3	7.758	7.627	7.826	VV	5194	283257	26.67%	4.843%
4	7.896	7.826	8.045	VV	6552	342276	32.23%	5.853%
5	8.799	8.651	8.993	PV	6460	365120	34.38%	6.243%
6	10.627	10.493	10.953	PV	21537	1061932	100.00%	18.158%
7	13.063	12.954	13.124	VV	6875	314545	29.62%	5.378%
8	13.197	13.124	13.438	VV	13561	651788	61.38%	11.145%
9	13.924	13.801	14.073	PV	12935	611320	57.57%	10.453%
10	16.199	16.066	16.401	BBA	12193	529990	49.91%	9.062%

Sum of corrected areas: 5848294

FB082125.M Thu Sep 18 04:21:27 2025

Analytical Sequence

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3015

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 8.7958					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	17 Sep 2025 11:26	FB032198.D	8.795	
VBF0917W1	VBF0917W1	17 Sep 2025 12:18	FB032199.D	8.797	
BSF0917W1	BSF0917W1	17 Sep 2025 12:45	FB032200.D	8.797	
BSF0917W2	BSF0917W2	17 Sep 2025 13:13	FB032201.D	8.797	
WP0925-RR-GAS-WP	Q3015-18	17 Sep 2025 14:59	FB032204.D	8.812	
20 PPB GRO STD	20 PPB GRO STD	17 Sep 2025 15:38	FB032205.D	8.799	

Column used to flag RT values with an * values outside of QC limits

QC Limits
(± 0.10 minutes)

Lower Limit
8.6958

Upper Limits
8.8958



QC SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VBF0917W1		SDG No.:	Q3015
Lab Sample ID:	VBF0917W1		Matrix:	Water
Analytical Method:	8015D GRO		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	5 mL
Extraction Type:			Test:	Gasoline Range Organics
GPC Factor :		PH :	Injection Volume :	
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032199.D	1	09/17/25 12:18	FB091725

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	20.1		50 - 150	100%	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\FB091725\
Data File : FB032199.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 12:18
Operator : YP/AJ
Sample : VBF0917W1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0917W1

Integration File: Calibration.e
Quant Time: Sep 18 04:07:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
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	8.797	345584	20.081 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

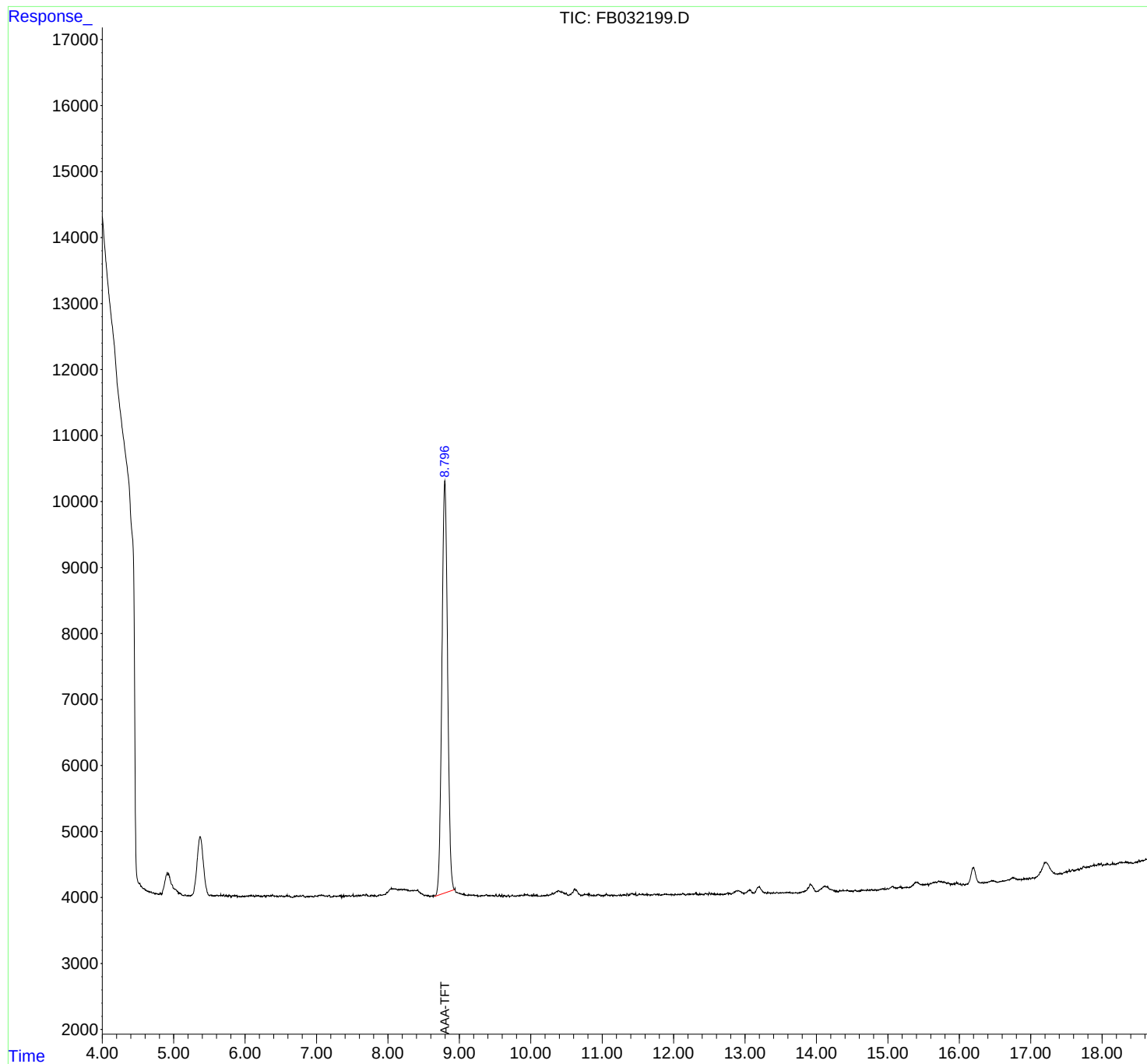
(m)=manual int.

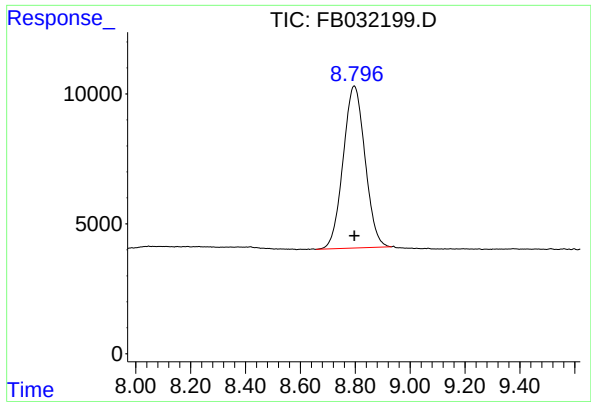
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032199.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 12:18
Operator : YP/AJ
Sample : VBF0917W1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0917W1

Integration File: Calibration.e
Quant Time: Sep 18 04:07:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
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.: 8.797 min
Delta R.T.: 0.000 min
Response: 345584
Conc: 20.08 ng/ml

Instrument :
FID_B
ClientSampleId :
VBF0917W1

1
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rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032199.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 12:18
Sample : VBF0917W1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.797	8.657	8.932	PV	6241	345584	100.00%	100.000%
Sum of corrected areas:						345584		

FB082125.M Thu Sep 18 04:18:46 2025

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	BSF0917W1		SDG No.:	Q3015
Lab Sample ID:	BSF0917W1		Matrix:	Water
Analytical Method:	8015D GRO		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	5 mL
Extraction Type:			Test:	Gasoline Range Organics
GPC Factor :		PH :	Injection Volume :	
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032200.D	1	09/17/25 12:45	FB091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	194		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.4		50 - 150	102%	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\FB091725\
 Data File : FB032200.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2025 12:45
 Operator : YP/AJ
 Sample : BSF0917W1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF0917W1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/22/2025
 Supervised By :mohammad ahmed 09/22/2025

Integration File: Calibration.e
 Quant Time: Sep 18 04:07:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.797	350874	20.388 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.713	775307	33.865 ng/ml
2) t 2,2,4-Trimethylpentane	7.428	889897	34.763 ng/ml
3) t n-Heptane	7.756	293119	11.908 ng/ml
4) t Benzene	7.894	349580	10.984 ng/ml
6) t Toluene	10.626	1033867	31.521 ng/ml
7) t Ethylbenzene	13.061	301747	10.392 ng/ml
8) t m-Xylene	13.194	629069	21.012 ng/ml
9) t O-Xylene	13.919	597358	20.896 ng/ml
10) t 1,2,4-Trimethylbenzene	16.196	517778	19.919 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032200.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 12:45
Operator : YP/AJ
Sample : BSF0917W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

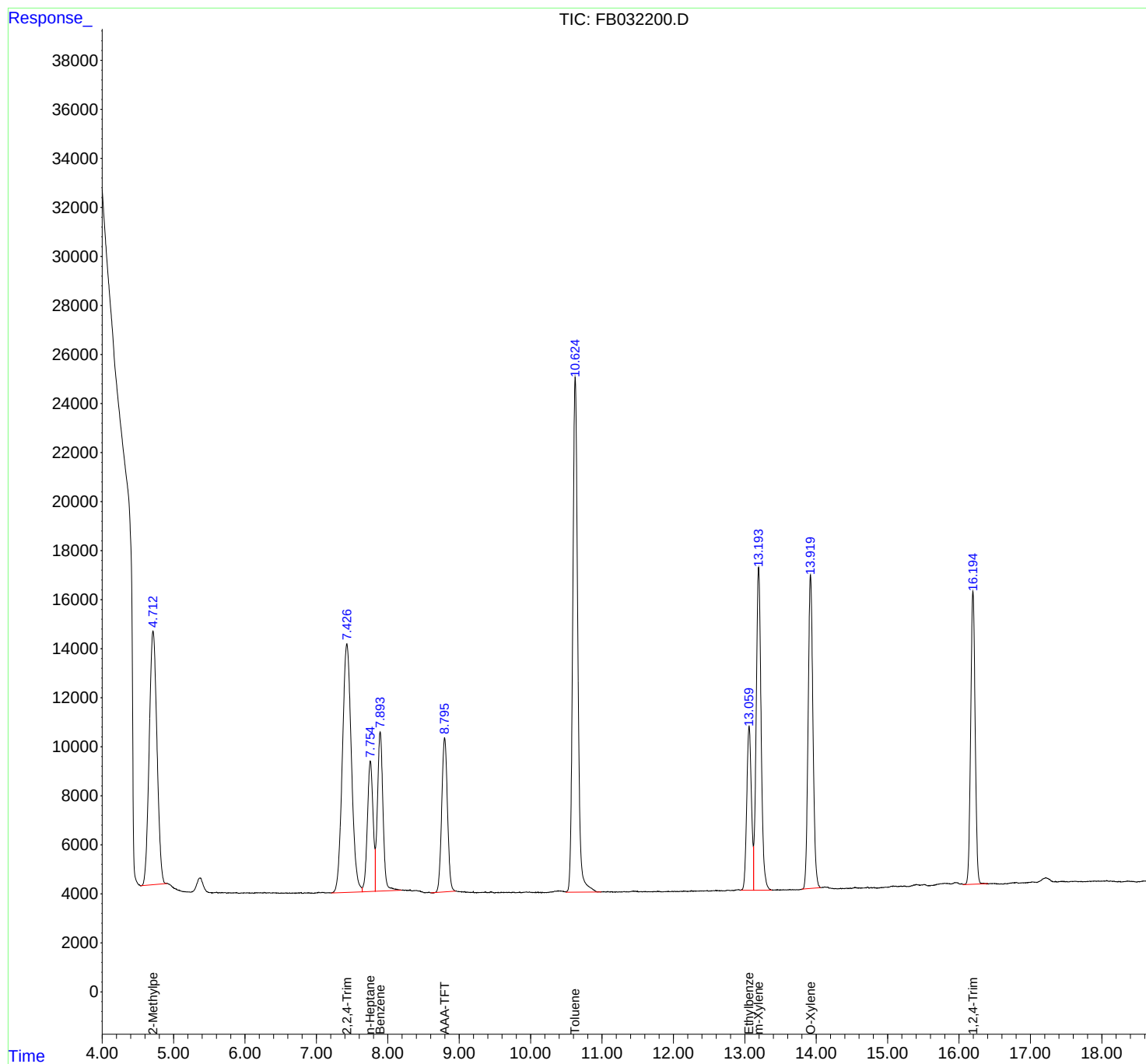
Instrument :
FID_B
ClientSampleId :
BSF0917W1

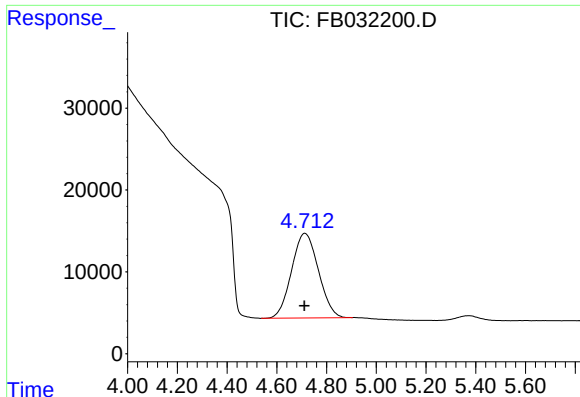
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/22/2025
Supervised By :mohammad ahmed 09/22/2025

Integration File: Calibration.e
Quant Time: Sep 18 04:07:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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





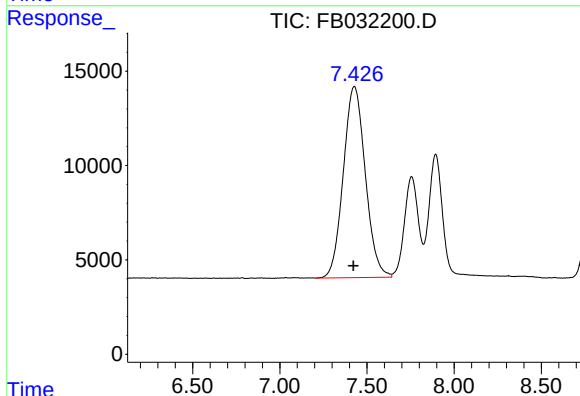
#1 2-Methylpentane

R.T.: 4.713 min
Delta R.T.: 0.002 min
Response: 775307
Conc: 33.87 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0917W1

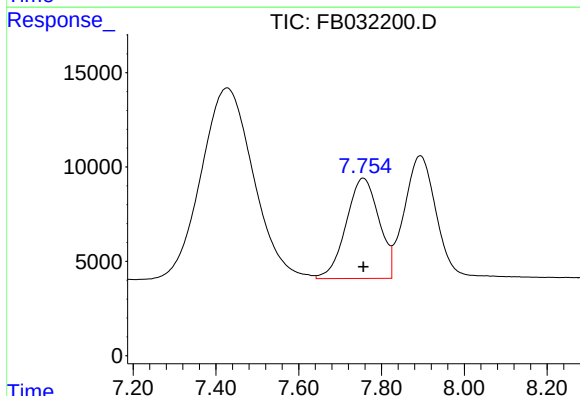
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/22/2025
Supervised By :mohammad ahmed 09/22/2025



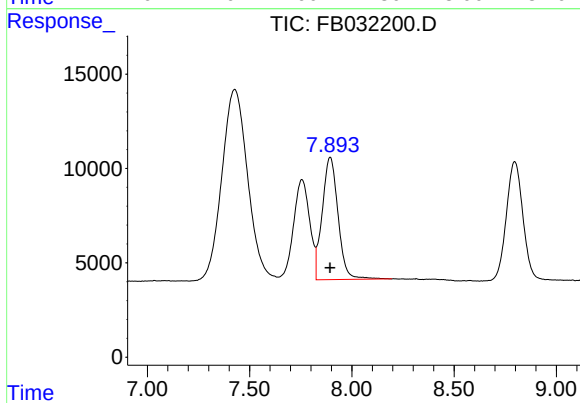
#2 2,2,4-Trimethylpentane

R.T.: 7.428 min
Delta R.T.: 0.006 min
Response: 889897
Conc: 34.76 ng/ml



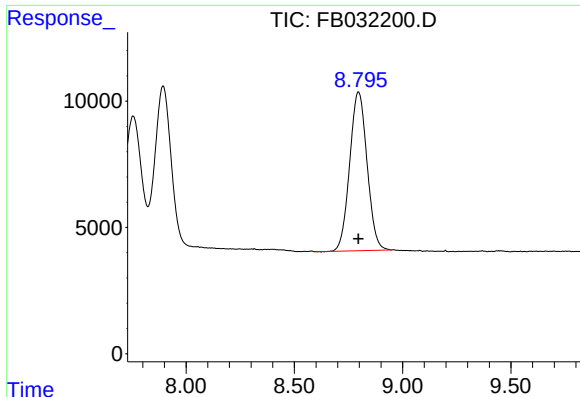
#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: -0.001 min
Response: 293119
Conc: 11.91 ng/ml



#4 Benzene

R.T.: 7.894 min
Delta R.T.: 0.000 min
Response: 349580
Conc: 10.98 ng/ml



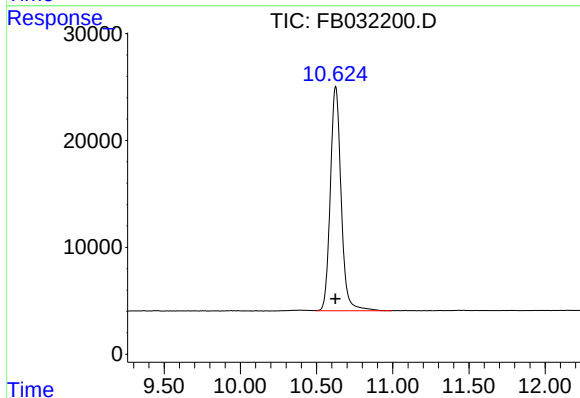
#5 AAA-TFT

R.T.: 8.797 min
Delta R.T.: 0.000 min
Response: 350874
Conc: 20.39 ng/ml

Instrument : FID_B
ClientSampleId : BSF0917W1

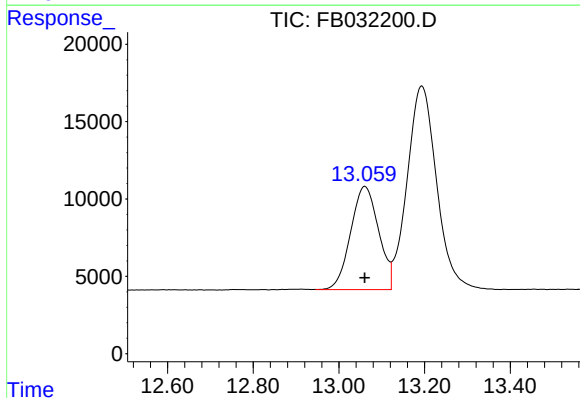
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/22/2025
Supervised By :mohammad ahmed 09/22/2025



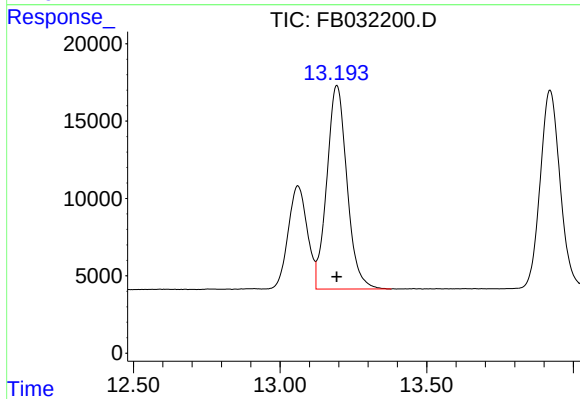
#6 Toluene

R.T.: 10.626 min
Delta R.T.: 0.000 min
Response: 1033867
Conc: 31.52 ng/ml



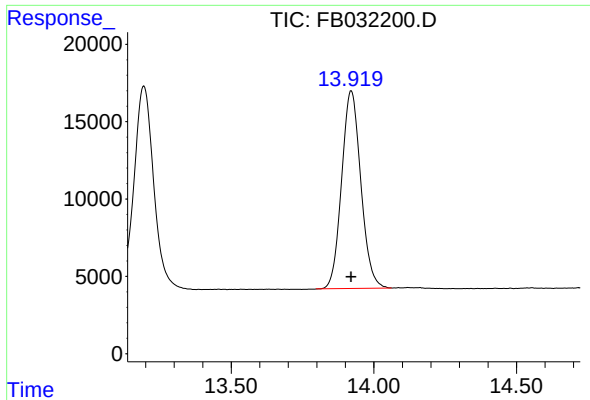
#7 Ethylbenzene

R.T.: 13.061 min
Delta R.T.: 0.001 min
Response: 301747
Conc: 10.39 ng/ml



#8 m-Xylene

R.T.: 13.194 min
Delta R.T.: 0.000 min
Response: 629069
Conc: 21.01 ng/ml



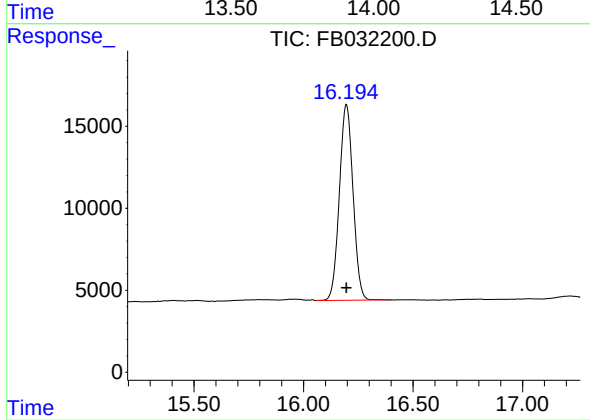
#9 O-Xylene

R.T.: 13.919 min
Delta R.T.: -0.002 min
Response: 597358
Conc: 20.90 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0917W1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/22/2025
Supervised By :mohammad ahmed 09/22/2025



#10 1,2,4-Trimethylbenzene

R.T.: 16.196 min
Delta R.T.: 0.000 min
Response: 517778
Conc: 19.92 ng/ml

rteres

Instrument :

FID_B

ClientSampleId :

BSF0917W1

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/22/2025

Supervised By :mohammad ahmed 09/22/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB09172
Data File : FB032200.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 12:45
Sample : BSF0917W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.713	4.537	4.905	BV	10354	775307	74.99%	13.517%
2	7.428	7.209	7.642	PV	10140	889897	86.07%	15.515%
3	7.756	7.642	7.825	VV	5321	293119	28.35%	5.110%
4	7.894	7.825	8.194	VV	6490	349580	33.81%	6.095%
5	8.797	8.601	8.949	BV	6289	350874	33.94%	6.117%
6	10.626	10.496	10.992	VV	20993	1033867	100.00%	18.025%
7	13.061	12.946	13.122	BV	6679	301747	29.19%	5.261%
8	13.194	13.122	13.380	VB	13159	629069	60.85%	10.968%
9	13.921	13.569	14.067	BV	12784	594380	57.49%	10.363%
10	16.196	16.057	16.403	VBA	11944	517778	50.08%	9.027%

Sum of corrected areas: 5735618

FB082125.M Thu Sep 18 04:19:23 2025

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	BSF0917W2		SDG No.:	Q3015
Lab Sample ID:	BSF0917W2		Matrix:	Water
Analytical Method:	8015D GRO		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	5 mL
Extraction Type:			Test:	Gasoline Range Organics
GPC Factor :		PH :	Injection Volume :	
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032201.D	1	09/17/25 13:13	FB091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	185		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.7		50 - 150	104%	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\FB091725\
 Data File : FB032201.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2025 13:13
 Operator : YP/AJ
 Sample : BSF0917W2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF0917W2

Integration File: Calibration.e
 Quant Time: Sep 18 04:07:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.797	356692	20.726 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.713	746874	32.623 ng/ml
2) t 2,2,4-Trimethylpentane	7.426	835376	32.633 ng/ml
3) t n-Heptane	7.756	267353	10.862 ng/ml
4) t Benzene	7.895	321380	10.098 ng/ml
6) t Toluene	10.626	988799	30.147 ng/ml
7) t Ethylbenzene	13.062	288282	9.928 ng/ml
8) t m-Xylene	13.194	601277	20.083 ng/ml
9) t O-Xylene	13.922	576163	20.155 ng/ml
10) t 1,2,4-Trimethylbenzene	16.197	495846	19.075 ng/ml

(f)=RT Delta > 1/2 Window

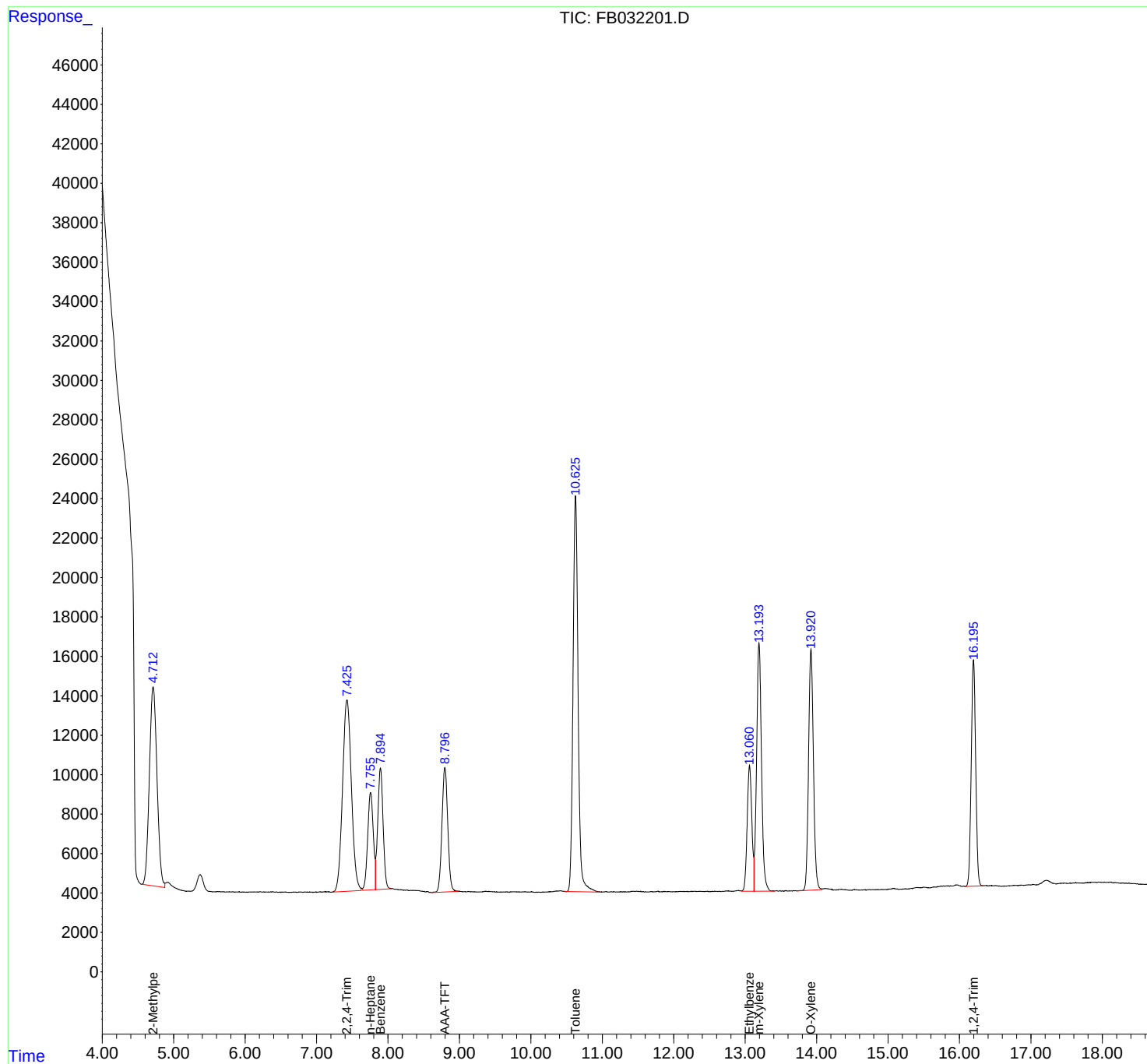
(m)=manual int.

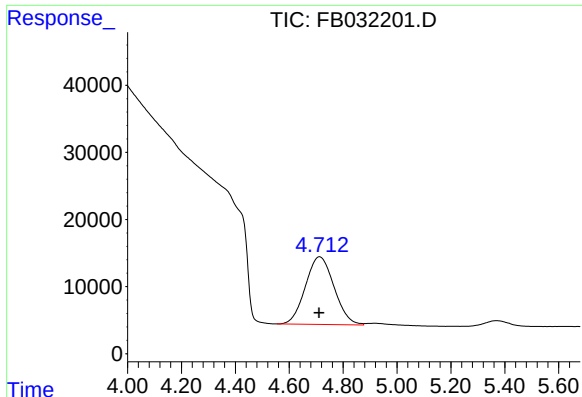
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032201.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 13:13
Operator : YP/AJ
Sample : BSF0917W2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0917W2

Integration File: Calibration.e
Quant Time: Sep 18 04:07:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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

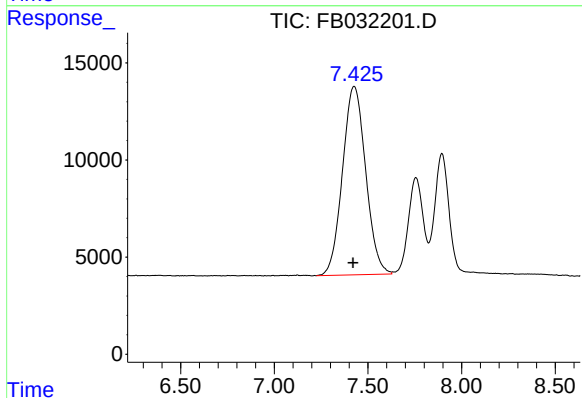




#1 2-Methylpentane

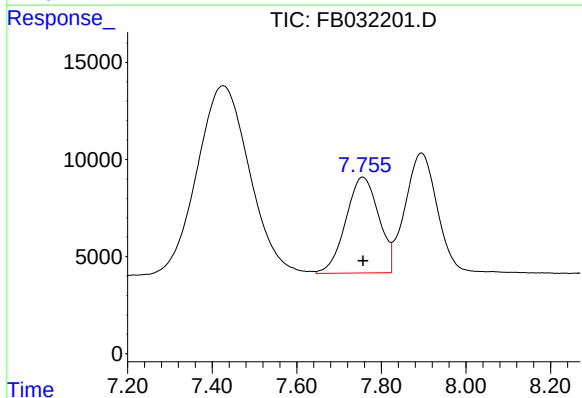
R.T.: 4.713 min
Delta R.T.: 0.002 min
Response: 746874
Conc: 32.62 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0917W2



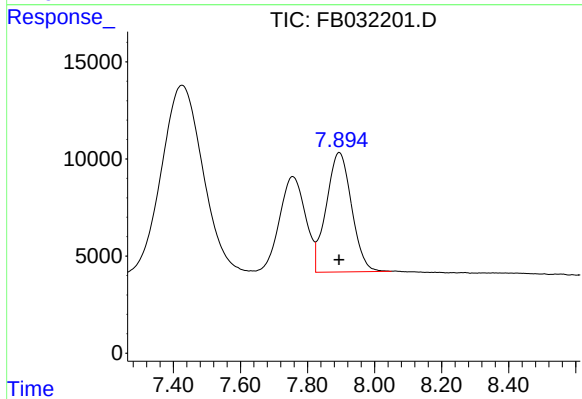
#2 2,2,4-Trimethylpentane

R.T.: 7.426 min
Delta R.T.: 0.005 min
Response: 835376
Conc: 32.63 ng/ml



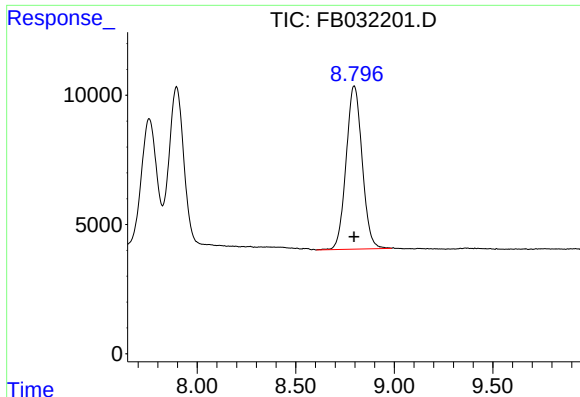
#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: 0.000 min
Response: 267353
Conc: 10.86 ng/ml



#4 Benzene

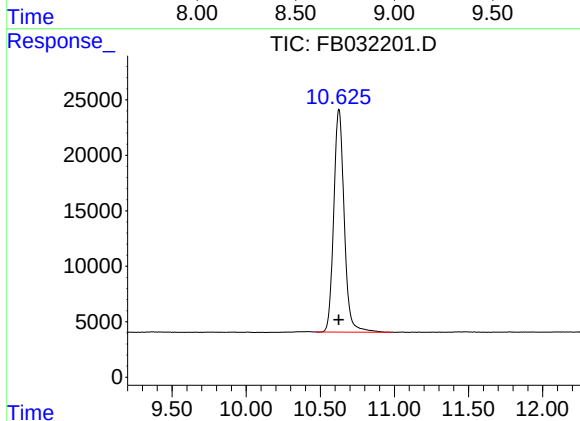
R.T.: 7.895 min
Delta R.T.: 0.000 min
Response: 321380
Conc: 10.10 ng/ml



#5 AAA-TFT

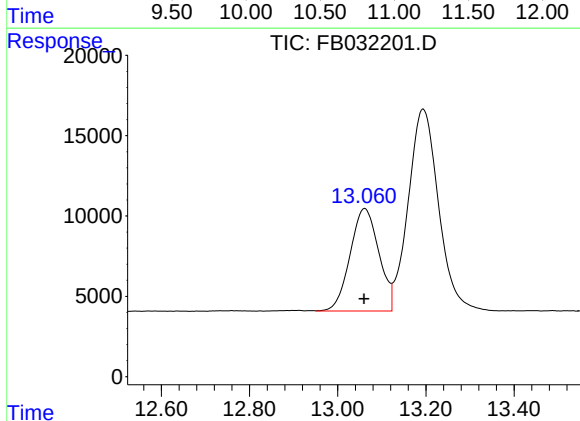
R.T.: 8.797 min
Delta R.T.: 0.000 min
Response: 356692
Conc: 20.73 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0917W2



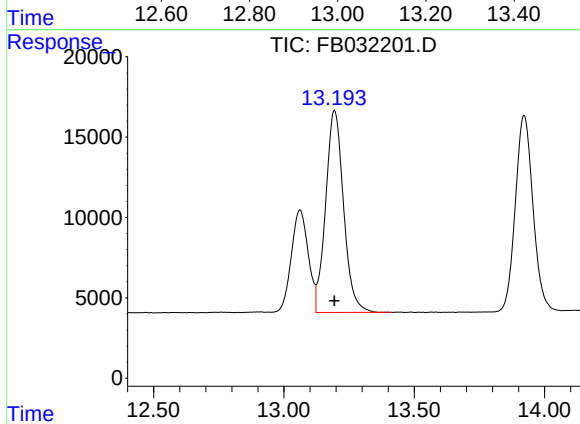
#6 Toluene

R.T.: 10.626 min
Delta R.T.: 0.001 min
Response: 988799
Conc: 30.15 ng/ml



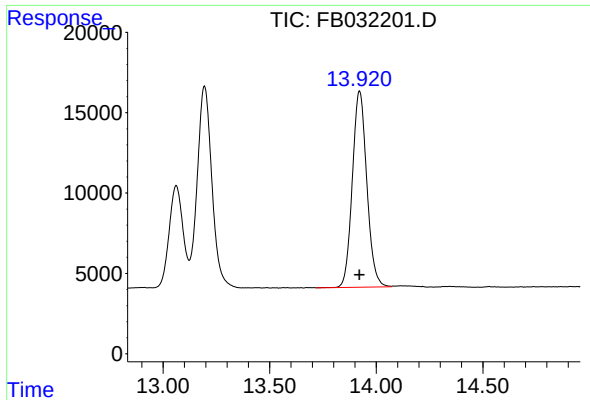
#7 Ethylbenzene

R.T.: 13.062 min
Delta R.T.: 0.002 min
Response: 288282
Conc: 9.93 ng/ml



#8 m-Xylene

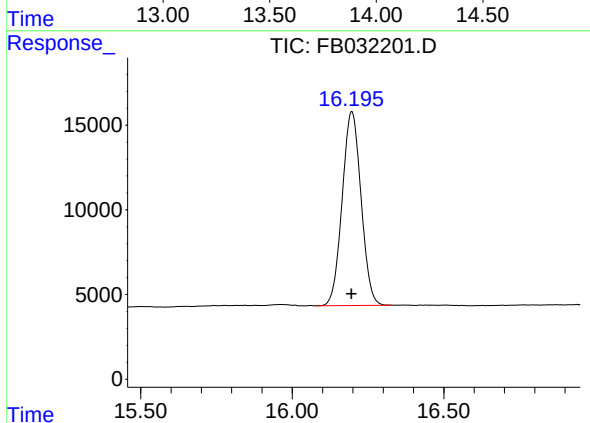
R.T.: 13.194 min
Delta R.T.: 0.000 min
Response: 601277
Conc: 20.08 ng/ml



#9 O-Xylene

R.T.: 13.922 min
Delta R.T.: 0.001 min
Response: 576163
Conc: 20.15 ng/ml

Instrument :
FID_B
ClientSampleId :
BSF0917W2



#10 1,2,4-Trimethylbenzene

R.T.: 16.197 min
Delta R.T.: 0.001 min
Response: 495846
Conc: 19.08 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032201.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 13:13
Sample : BSF0917W2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.713	4.554	4.876	BV	10093	746874	75.53%	13.634%
2	7.426	7.223	7.627	PV	9710	835376	84.48%	15.250%
3	7.756	7.645	7.824	VV	4941	267353	27.04%	4.880%
4	7.895	7.824	8.050	VV	6150	321380	32.50%	5.867%
5	8.797	8.604	8.987	PV	6313	356692	36.07%	6.511%
6	10.626	10.471	10.981	BV	20092	988799	100.00%	18.050%
7	13.062	12.951	13.123	VV	6383	288282	29.15%	5.263%
8	13.194	13.123	13.413	VV	12571	601277	60.81%	10.976%
9	13.922	13.718	14.072	PV	12213	576163	58.27%	10.518%
10	16.197	16.079	16.329	PV	11468	495846	50.15%	9.052%

Sum of corrected areas: 5478042

FB082125.M Thu Sep 18 04:19:53 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
5 GRO STD		FB032157.D	FB082125	n-Heptane	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly
10 GRO STD		FB032158.D	FB082125	2-Methylpentane	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly
100 GRO STD		FB032161.D	FB082125	2-Methylpentane	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly
Q2893-07		FB032166.D	FB082125	1,2,4-Trimethylbenzene	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly
Q2893-07		FB032166.D	FB082125	n-Heptane	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly
Q2893-08		FB032168.D	FB082125	O-Xylene	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly
Q2893-01		FB032174.D	FB082125	1,2,4-Trimethylbenzene	mohammad	8/25/2025 1:30:13 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
BSF0917W1		FB032200.D	fb091725	O-Xylene	mohammad	9/22/2025 9:01:47 AM	Peak Integrated by Software incorrectly
Q3015-18		FB032202.D	fb091725	O-Xylene	mohammad	9/22/2025 9:01:47 AM	Peak Integrated by Software incorrectly
Q3015-18		FB032202.D	fb091725	Toluene	mohammad	9/22/2025 9:01:47 AM	Peak Integrated by Software incorrectly
Q3015-18		FB032204.D	fb091725	O-Xylene	mohammad	9/22/2025 9:01:47 AM	Peak Integrated by Software incorrectly
Q3015-18		FB032204.D	fb091725	Toluene	mohammad	9/22/2025 9:01:47 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB082125

Review By	yogesh	Review On	8/21/2025 3:45:42 PM
Supervise By	mohammad	Supervise On	8/25/2025 1:30:13 AM
SubDirectory	FB082125	HP Acquire Method	HP Processing Method FB082125
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24717,PP24867,PP24868,PP24869,PP24870,PP24871		
CCC Internal Standard/PEM	PP24873,PP24874,PP24875		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24718,PP24872		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	5 GRO STD	FB032157.D	21 Aug 2025 9:11	YP/AJ	Ok,M
2	10 GRO STD	FB032158.D	21 Aug 2025 9:39	YP/AJ	Ok,M
3	20 GRO STD	FB032159.D	21 Aug 2025 10:07	YP/AJ	Ok
4	50 GRO STD	FB032160.D	21 Aug 2025 10:34	YP/AJ	Ok
5	100 GRO STD	FB032161.D	21 Aug 2025 11:02	YP/AJ	Ok,M
6	FB082125GROICV	FB032162.D	21 Aug 2025 12:18	YP/AJ	Ok
7	20 PPB GRO STD	FB032163.D	21 Aug 2025 13:01	YP/AJ	Ok
8	VBF0821W1	FB032164.D	21 Aug 2025 13:50	YP/AJ	Ok
9	BSF0821W1	FB032165.D	21 Aug 2025 14:17	YP/AJ	Ok
10	Q2893-07	FB032166.D	21 Aug 2025 14:45	YP/AJ	Ok,M
11	Q2893-07	FB032167.D	21 Aug 2025 15:28	YP/AJ	Ok
12	Q2893-08	FB032168.D	21 Aug 2025 15:55	YP/AJ	Ok,M
13	BSF0821W2	FB032169.D	21 Aug 2025 16:22	YP/AJ	Ok
14	20 PPB GRO STD	FB032170.D	21 Aug 2025 16:50	YP/AJ	Ok
15	VBF0821S1	FB032171.D	21 Aug 2025 17:45	YP/AJ	Ok
16	VBF0821S2	FB032172.D	21 Aug 2025 18:13	YP/AJ	Ok
17	BSF0821S1	FB032173.D	21 Aug 2025 18:41	YP/AJ	Ok
18	Q2893-01	FB032174.D	21 Aug 2025 19:08	YP/AJ	Ok,M
19	Q2893-01	FB032175.D	21 Aug 2025 20:02	YP/AJ	Ok
20	Q2893-02	FB032176.D	21 Aug 2025 20:30	YP/AJ	Ok
21	BSF0821S2	FB032177.D	21 Aug 2025 20:57	YP/AJ	Ok

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB082125

Review By	yogesh	Review On	8/21/2025 3:45:42 PM
Supervise By	mohammad	Supervise On	8/25/2025 1:30:13 AM
SubDirectory	FB082125	HP Acquire Method	HP Processing Method FB082125
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24717,PP24867,PP24868,PP24869,PP24870,PP24871		
CCC Internal Standard/PEM	PP24873,PP24874,PP24875		
ICV/I.BLK Surrogate Standard	PP24718,PP24872		
MS/MSD Standard LCS Standard			

22	20 PPB GRO STD	FB032178.D	21 Aug 2025 21:24	YP/AJ	Ok
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M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB091725

Review By	yogesh	Review On	9/19/2025 8:20:29 AM		
Supervise By	mohammad	Supervise On	9/22/2025 9:01:47 AM		
SubDirectory	FB091725	HP Acquire Method	FID_B	HP Processing Method	fb082125.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	PP24717,PP24867,PP24868,PP24869,PP24870,PP24871				
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24927,PP24928				

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	20 PPB GRO STD	FB032198.D	17 Sep 2025 11:26	YP/AJ	Ok
2	VBF0917W1	FB032199.D	17 Sep 2025 12:18	YP/AJ	Ok
3	BSF0917W1	FB032200.D	17 Sep 2025 12:45	YP/AJ	Ok,M
4	BSF0917W2	FB032201.D	17 Sep 2025 13:13	YP/AJ	Ok
5	Q3015-18	FB032202.D	17 Sep 2025 13:41	YP/AJ	Dilution
6	I.BLK	FB032203.D	17 Sep 2025 14:32	YP/AJ	Ok
7	Q3015-18	FB032204.D	17 Sep 2025 14:59	YP/AJ	Ok,M
8	20 PPB GRO STD	FB032205.D	17 Sep 2025 15:38	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB082125

Review By	yogesh	Review On	8/21/2025 3:45:42 PM
Supervise By	mohammad	Supervise On	8/25/2025 1:30:13 AM
SubDirectory	FB082125	HP Acquire Method	HP Processing Method
			FB082125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24717,PP24867,PP24868,PP24869,PP24870,PP24871
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24873,PP24874,PP24875 PP24718,PP24872

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	5 GRO STD		FB032157.D	21 Aug 2025 9:11		YP/AJ	Ok,M
2	10 GRO STD		FB032158.D	21 Aug 2025 9:39		YP/AJ	Ok,M
3	20 GRO STD		FB032159.D	21 Aug 2025 10:07		YP/AJ	Ok
4	50 GRO STD		FB032160.D	21 Aug 2025 10:34		YP/AJ	Ok
5	100 GRO STD		FB032161.D	21 Aug 2025 11:02		YP/AJ	Ok,M
6	FB082125GROICV		FB032162.D	21 Aug 2025 12:18		YP/AJ	Ok
7	20 PPB GRO STD		FB032163.D	21 Aug 2025 13:01		YP/AJ	Ok
8	VBF0821W1		FB032164.D	21 Aug 2025 13:50		YP/AJ	Ok
9	BSF0821W1		FB032165.D	21 Aug 2025 14:17		YP/AJ	Ok
10	Q2893-07		FB032166.D	21 Aug 2025 14:45	4 PPB WATER LOD	YP/AJ	Ok,M
11	Q2893-07		FB032167.D	21 Aug 2025 15:28	4 PPB WATER LOD	YP/AJ	Ok
12	Q2893-08		FB032168.D	21 Aug 2025 15:55	4 PPB WATER LOQ	YP/AJ	Ok,M
13	BSF0821W2		FB032169.D	21 Aug 2025 16:22		YP/AJ	Ok
14	20 PPB GRO STD		FB032170.D	21 Aug 2025 16:50		YP/AJ	Ok
15	VBF0821S1		FB032171.D	21 Aug 2025 17:45		YP/AJ	Ok
16	VBF0821S2		FB032172.D	21 Aug 2025 18:13		YP/AJ	Ok
17	BSF0821S1		FB032173.D	21 Aug 2025 18:41		YP/AJ	Ok
18	Q2893-01		FB032174.D	21 Aug 2025 19:08	5 PPB SOIL LOD	YP/AJ	Ok,M

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB082125

Review By	yogesh	Review On	8/21/2025 3:45:42 PM	
Supervise By	mohammad	Supervise On	8/25/2025 1:30:13 AM	
SubDirectory	FB082125	HP Acquire Method	HP Processing Method	FB082125
STD. NAME	STD REF.#			
Tune/Reschk Initial Calibration Stds	PP24717,PP24867,PP24868,PP24869,PP24870,PP24871			
CCC Internal Standard/PEM	PP24873,PP24874,PP24875			
ICV/I.BLK Surrogate Standard	PP24718,PP24872			
MS/MSD Standard LCS Standard				

19	Q2893-01		FB032175.D	21 Aug 2025 20:02	5 PPB SOIL LOD	YP/AJ	Ok
20	Q2893-02		FB032176.D	21 Aug 2025 20:30	5 PPB SOIL LOQ	YP/AJ	Ok
21	BSF0821S2		FB032177.D	21 Aug 2025 20:57		YP/AJ	Ok
22	20 PPB GRO STD		FB032178.D	21 Aug 2025 21:24		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB091725

Review By	yogesh	Review On	9/19/2025 8:20:29 AM
Supervise By	mohammad	Supervise On	9/22/2025 9:01:47 AM
SubDirectory	FB091725	HP Acquire Method	FID_B
		HP Processing Method	fb082125.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24717,PP24867,PP24868,PP24869,PP24870,PP24871
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24927,PP24928

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	20 PPB GRO STD		FB032198.D	17 Sep 2025 11:26		YP/AJ	Ok
2	VBF0917W1		FB032199.D	17 Sep 2025 12:18		YP/AJ	Ok
3	BSF0917W1		FB032200.D	17 Sep 2025 12:45		YP/AJ	Ok,M
4	BSF0917W2		FB032201.D	17 Sep 2025 13:13		YP/AJ	Ok
5	Q3015-18		FB032202.D	17 Sep 2025 13:41	need 5x dilution	YP/AJ	Dilution
6	I.BLK		FB032203.D	17 Sep 2025 14:32		YP/AJ	Ok
7	Q3015-18		FB032204.D	17 Sep 2025 14:59		YP/AJ	Ok,M
8	20 PPB GRO STD		FB032205.D	17 Sep 2025 15:38		YP/AJ	Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3015
Test : Gasoline Range Organics

Prepbatch ID :
Sequence ID/Qc Batch ID: fb091725,

Standard ID :
PP24717,PP24719,PP24867,PP24868,PP24869,PP24870,PP24871,PP24927,PP24928,

Chemical ID :
P13537,V11252,V14629,W3112,

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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	PP24717	07/14/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza
								09/24/2025

FROM 0.11100ml of P13537 + 9.89000ml of V14629 = 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>
3619	25 PPM AAA-TFT Surg	PP24719	07/14/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza
								09/24/2025

FROM 0.10000ml of V11252 + 9.90000ml of V14629 = 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>
238	5 PPB ICC GRO STD	PP24867	08/21/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza 09/24/2025

FROM 5.00000ml of W3112 + 0.00100ml of PP24719 + 0.00250ml of PP24717 = Final Quantity: 5.004 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>
237	10 PPB ICC GRO STD	PP24868	08/21/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza 09/24/2025

FROM 5.00000ml of W3112 + 0.00200ml of PP24719 + 0.00500ml of PP24717 = Final Quantity: 5.007 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>
239	20 PPB ICC GRO STD	PP24869	08/21/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza
								09/24/2025

FROM 5.00000ml of W3112 + 0.00400ml of PP24719 + 0.01000ml of PP24717 = 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>
235	50 PPB ICC GRO STD	PP24870	08/21/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza
								09/24/2025

FROM 5.00000ml of W3112 + 0.01000ml of PP24719 + 0.02500ml of PP24717 = Final Quantity: 5.035 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>
234	100 PPB ICC GRO STD	PP24871	08/21/2025	01/09/2026	Yogesh Patel	None	None	Abdul Mirza
								09/24/2025

FROM 5.00000ml of W3112 + 0.02000ml of PP24719 + 0.05000ml of PP24717 = Final Quantity: 5.070 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	PP24927	09/17/2025	09/18/2025	Amit Patel	None	None	Yogesh Patel
								09/17/2025

FROM 5.00000ml of W3112 + 0.00400ml of PP24719 + 0.01000ml of PP24717 = 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>
241	20 PPB CCC GRO STD	PP24928	09/17/2025	09/18/2025	Amit Patel	None	None	Yogesh Patel
FROM 5.00000ml of W3112 + 0.00400ml of PP24719 + 0.01000ml of PP24717 = 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)	A0208729	01/14/2026	07/14/2025 / yogesh	09/23/2024 / yogesh	P13537

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30068 / VOA Mix, a, a, a-trifluorotoluene 2500uq/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)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

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 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
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	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
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

Ken Koehnlein
Sr. Manager, Quality Assurance



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.:** A0208729

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 : April 30, 2031 **Storage:** 0°C or colder

Ship: Ambient

P13537
↓
P13541 } Y.P.
09/23/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylpentane	107-83-5	MKCR9584	99%	1,502.0 µg/mL	+/- 84.3956
2	2,2,4-Trimethylpentane (isooctane)	540-84-1	SHBP5702	99%	1,504.0 µg/mL	+/- 84.5080
3	n-Heptane (C7)	142-82-5	044743T03G	99%	504.0 µg/mL	+/- 28.3192
4	Benzene	71-43-2	MKCS3357	99%	503.0 µg/mL	+/- 28.2630
5	Toluene	108-88-3	MKCS9989	99%	1,508.0 µg/mL	+/- 84.7327
6	Ethylbenzene	100-41-4	094632T20F	99%	503.0 µg/mL	+/- 28.2630
7	m-Xylene	108-38-3	SHBN6673	99%	1,008.0 µg/mL	+/- 56.6383
8	o-Xylene	95-47-6	SHBN5105	99%	1,005.0 µg/mL	+/- 56.4697
9	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	1,004.0 µg/mL	+/- 56.4136

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

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:

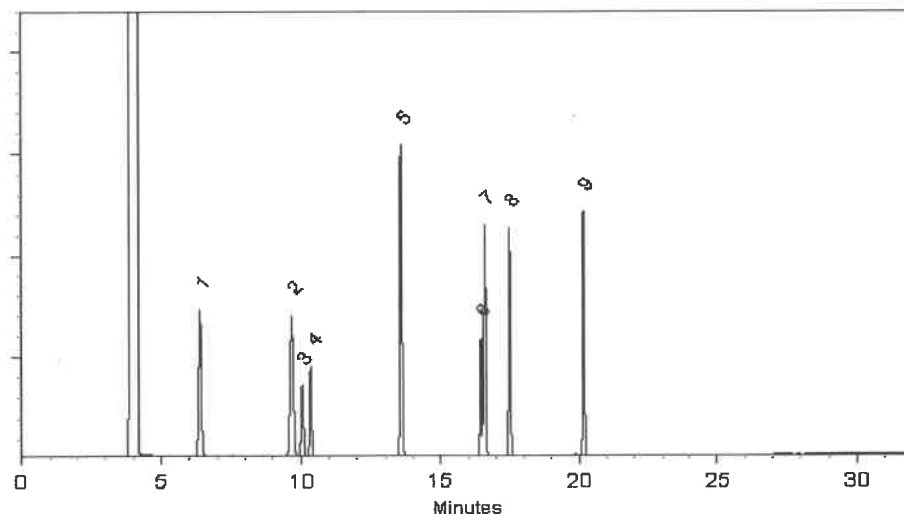
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.

Wilner Torres
Wilner Torres - Operation Tech I

Date Mixed: 06-Mar-2024

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Mar-2024

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/ μ ECD, 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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
 Data File : FB032202.D
 Signal(s) : FID2B.CH
 Acq On : 17 Sep 2025 13:41
 Operator : YP/AJ
 Sample : Q3015-18
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 WP0925-RR-GAS-WP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/18/2025
 Supervised By :mohammad ahmed 09/22/2025

Integration File: Calibration.e
 Quant Time: Sep 18 04:08:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
 Quant Title :
 QLast Update : Thu Aug 21 10:58:34 2025
 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	8.854	1838541	106.832 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.716	1411873	61.670 ng/ml
2) t 2,2,4-Trimethylpentane	7.420	4370660	170.734 ng/ml
3) t n-Heptane	7.758	2826569	114.834 ng/ml
4) t Benzene	7.895	1036407	32.565 ng/ml
6) t Toluene	10.627	10503579	320.241 ng/mlm
7) t Ethylbenzene	13.063	2818606	97.067 ng/ml
8) t m-Xylene	13.195	9064169	302.752 ng/ml
9) t O-Xylene	13.923	3039075	106.311 ng/mlm
10) t 1,2,4-Trimethylbenzene	16.200	2440858	93.900 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB091725\
Data File : FB032202.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 13:41
Operator : YP/AJ
Sample : Q3015-18
Misc :
ALS Vial : 5 Sample Multiplier: 1

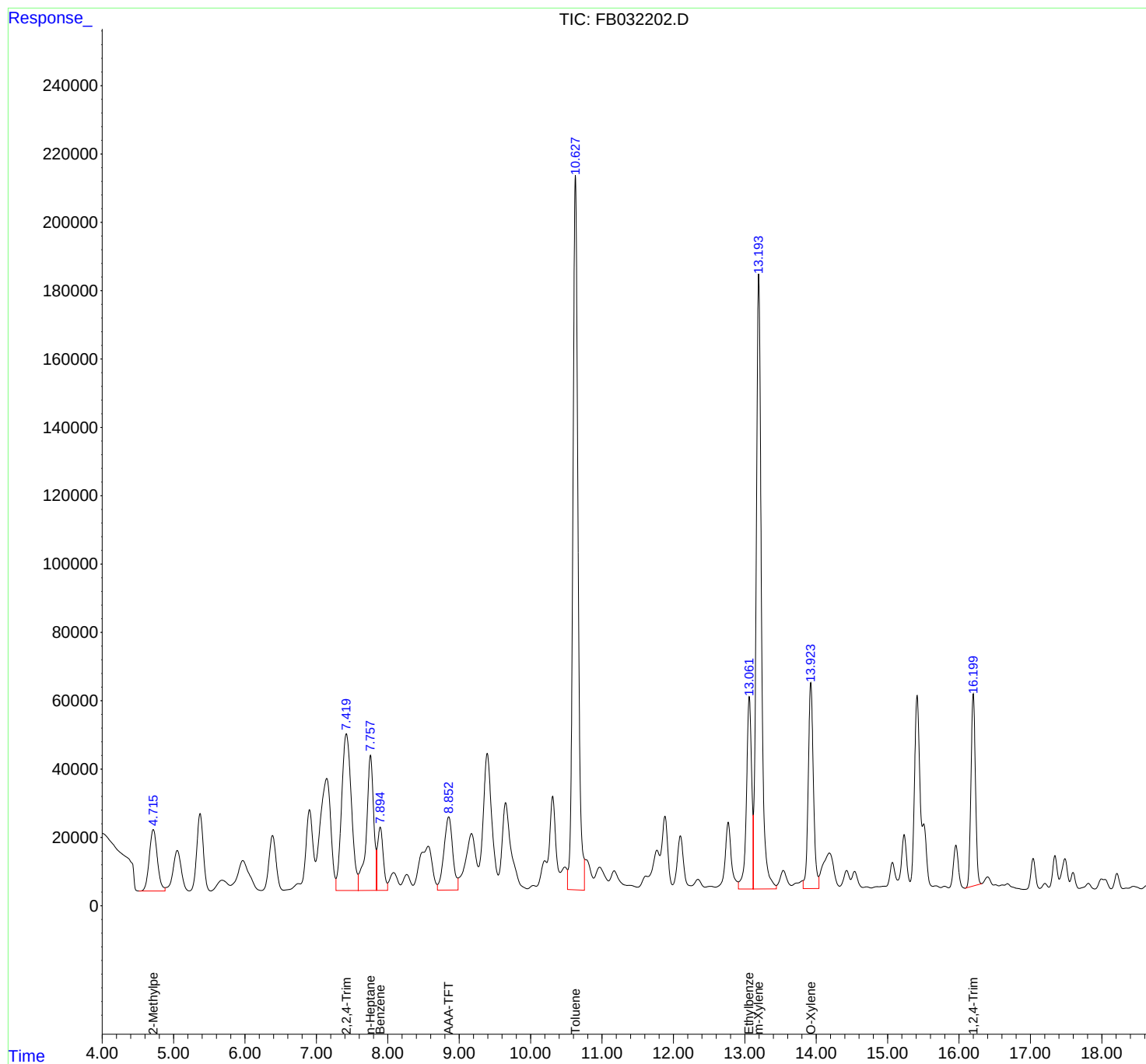
Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

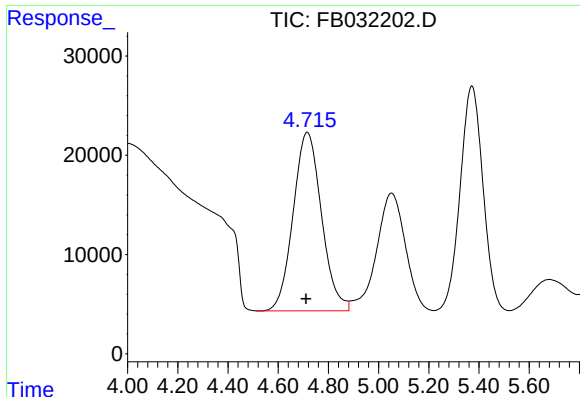
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025

Integration File: Calibration.e
Quant Time: Sep 18 04:08:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Quant Title :
QLast Update : Thu Aug 21 10:58:34 2025
Response via : Initial Calibration
Integrator: ChemStation

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





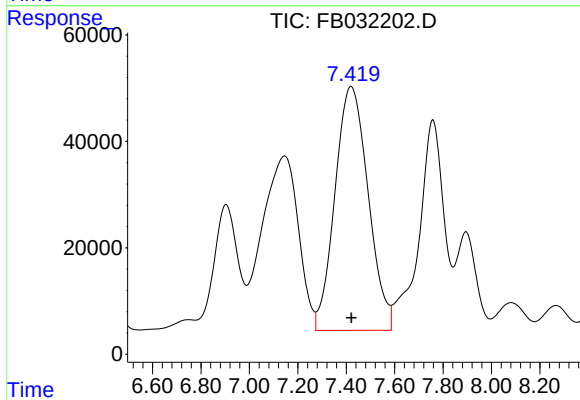
#1 2-Methylpentane

R.T.: 4.716 min
Delta R.T.: 0.005 min
Response: 1411873
Conc: 61.67 ng/ml

Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

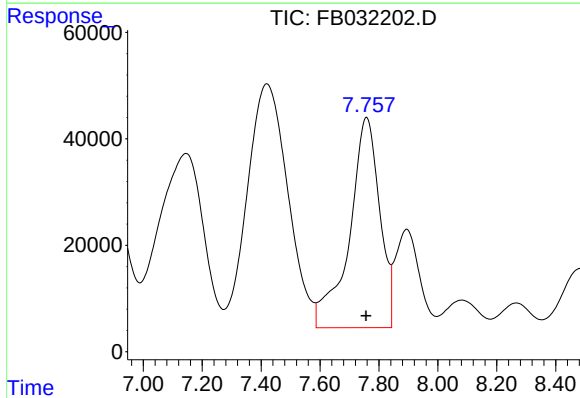
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



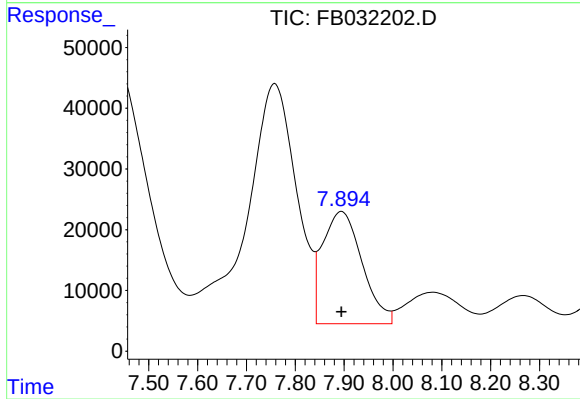
#2 2,2,4-Trimethylpentane

R.T.: 7.420 min
Delta R.T.: -0.002 min
Response: 4370660
Conc: 170.73 ng/ml



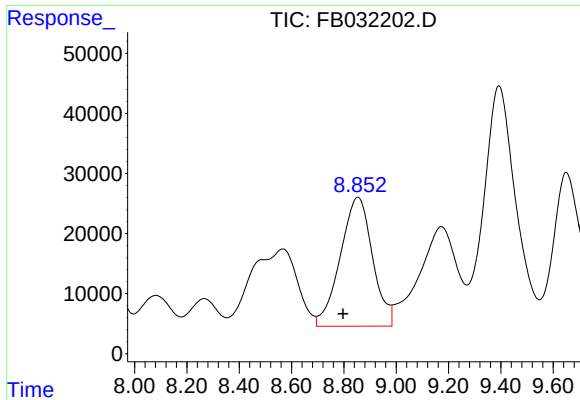
#3 n-Heptane

R.T.: 7.758 min
Delta R.T.: 0.002 min
Response: 2826569
Conc: 114.83 ng/ml



#4 Benzene

R.T.: 7.895 min
Delta R.T.: 0.000 min
Response: 1036407
Conc: 32.56 ng/ml



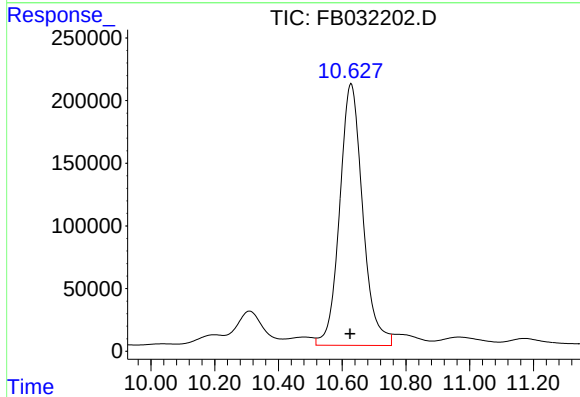
#5 AAA-TFT

R.T.: 8.854 min
Delta R.T.: 0.057 min
Response: 1838541
Conc: 106.83 ng/ml

Instrument : FID_B
ClientSampleId : WP0925-RR-GAS-WP

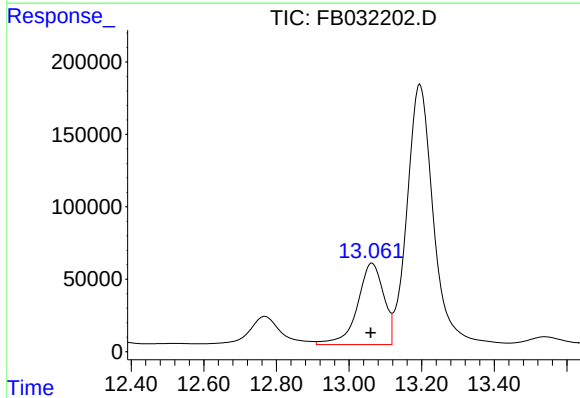
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



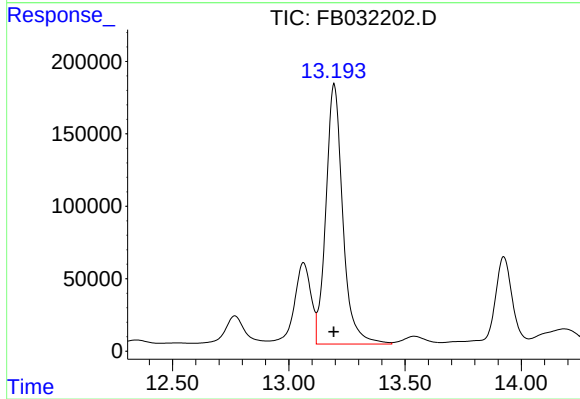
#6 Toluene

R.T.: 10.627 min
Delta R.T.: 0.002 min
Response: 10503579
Conc: 320.24 ng/ml m



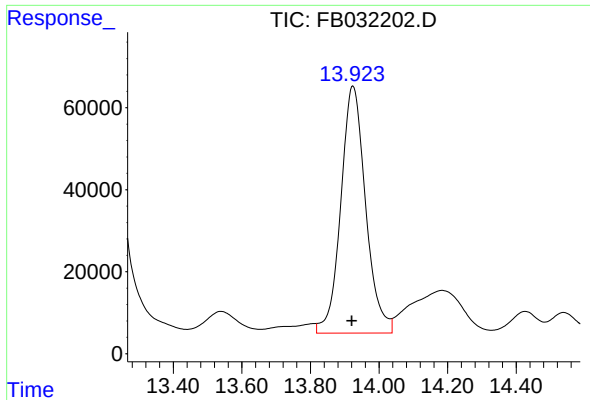
#7 Ethylbenzene

R.T.: 13.063 min
Delta R.T.: 0.003 min
Response: 2818606
Conc: 97.07 ng/ml



#8 m-Xylene

R.T.: 13.195 min
Delta R.T.: 0.002 min
Response: 9064169
Conc: 302.75 ng/ml



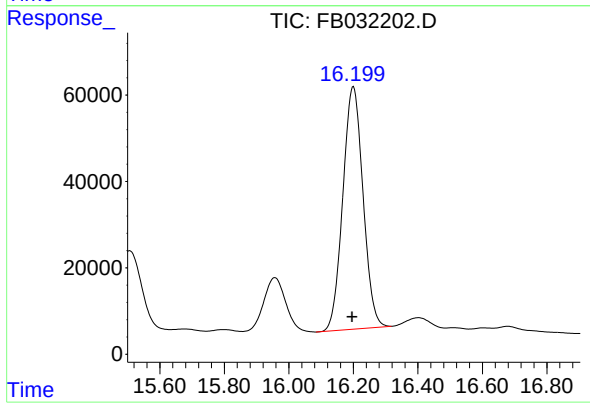
#9 O-Xylene

R.T.: 13.923 min
Delta R.T.: 0.002 min
Response: 3039075
Conc: 106.31 ng/ml

Instrument :
FID_B
ClientSampleId :
WP0925-RR-GAS-WP

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025



#10 1,2,4-Trimethylbenzene

R.T.: 16.200 min
Delta R.T.: 0.004 min
Response: 2440858
Conc: 93.90 ng/ml

rteres

Instrument :

FID_B

ClientSampleId :

WP0925-RR-GAS-WP

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/18/2025

Supervised By :mohammad ahmed 09/22/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB09172
Data File : FB032202.D
Signal(s) : FID2B.CH
Acq On : 17 Sep 2025 13:41
Sample : Q3015-18
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB082125.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.716	4.487	4.881	BV	17935	1393749	12.68%	1.904%
2	5.682	5.522	5.795	PV	3132	313381	2.85%	0.428%
3	5.971	5.795	6.227	VV	8875	1029448	9.36%	1.406%
4	6.386	6.227	6.546	VV	16186	1112979	10.12%	1.520%
5	6.904	6.775	6.989	VV	23708	1622261	14.75%	2.216%
6	7.145	6.989	7.274	VV	32813	3387589	30.81%	4.627%
7	7.420	7.274	7.586	VV	45863	4370617	39.75%	5.970%
8	7.758	7.586	7.843	VV	39569	2826535	25.71%	3.861%
9	7.895	7.843	7.998	VV	18500	1036387	9.43%	1.416%
10	8.082	7.998	8.179	VV	5166	389877	3.55%	0.533%
11	8.267	8.179	8.353	VV	4619	320933	2.92%	0.438%
12	8.566	8.353	8.695	VV	12879	1577178	14.34%	2.154%
13	8.854	8.695	8.984	VV	21450	1838508	16.72%	2.511%
14	9.173	8.984	9.270	VV	16541	1656477	15.06%	2.262%
15	9.393	9.270	9.548	VV	39943	3359886	30.56%	4.589%
16	9.651	9.548	9.952	VV	25520	2250394	20.47%	3.074%
17	10.039	9.952	10.078	VV	1251	66602	0.61%	0.091%
18	10.310	10.078	10.416	VV	27365	2120918	19.29%	2.897%
19	10.481	10.416	10.520	VV	6607	373704	3.40%	0.510%
20	10.628	10.520	10.884	VV	208795	10995809	100.00%	15.019%
21	10.967	10.884	11.092	VV	6538	587904	5.35%	0.803%
22	11.172	11.092	11.494	VV	5473	564227	5.13%	0.771%
23	11.618	11.494	11.642	VV	3874	209267	1.90%	0.286%
24	11.771	11.642	11.809	VV	11467	772935	7.03%	1.056%
25	11.882	11.809	11.989	VV	21419	1270488	11.55%	1.735%
26	12.098	11.989	12.251	VV	15645	975402	8.87%	1.332%
27	12.345	12.251	12.446	VV	2880	200221	1.82%	0.273%
28	12.521	12.446	12.588	VV	824	61055	0.56%	0.083%
29	12.768	12.588	12.910	VV	19568	1205193	10.96%	1.646%
30	13.063	12.910	13.118	VV	56274	2818595	25.63%	3.850%
31	13.195	13.118	13.442	VV	179377	9064155	82.43%	12.380%
32	13.540	13.442	13.655	VV	5393	370027	3.37%	0.505%
33	13.925	13.655	14.035	VV	60237	3204668	29.14%	4.377%
34	14.185	14.035	14.329	VV	10459	1115630	10.15%	1.524%
35	14.427	14.329	14.484	VV	5323	296360	2.70%	0.405%
36	14.539	14.484	14.656	VV	5048	278336	2.53%	0.380%

Page 1

					rters				
37	14.707	14.656	14.772	VV	516	26444	0.24%	0.036%	
38	15.068	14.772	15.143	VV	7620	460533			
39	15.232	15.143	15.314	VV	15776	809381			
40	15.414	15.314	15.636	VV	56415	3709026			
41	15.676	15.636	15.744	VV	732	35758			
42	15.798	15.744	15.854	VV	583	25772			
43	15.957	15.854	16.084	VV	12618	598582	5.44%	0.818%	
44	16.200	16.084	16.318	PV	56659	2511263	22.84%	3.430%	
Sum of corrected areas:						73214456			

Instrument :
FID_B

ClientSampleId :
WP0925-RR-GAS-WP

0.24% 0.036%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/18/2025
Supervised By :mohammad ahmed 09/22/2025

FB082125.M Thu Sep 18 06:05:10 2025



SHIPPING DOCUMENTS

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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/termsandsale

Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: *ST* 9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	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	WP0925	8270-04
1	1	0	PT-HG-WP	WP Mercury	WP0925	8270-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0925	8270-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0925	8270-06
1	1	0	PT-DEM-WP	WP Demand	WP0925	8270-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0925	8270-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0925	8270-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-SOL-WP	WP Solids	WP0925	8270-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0925	8270-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0925	8270-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0925	8270-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0925	8270-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0925	8270-13
1	1	0	PT-PH-WP	WP pH	WP0925	8270-15
1	1	0	PT-CN-WP	WP Cyanide	WP0925	8270-14

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 #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	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-PHEN-WP	WP Phenolics	WP0925	8270-16
1	1	0	PT-S2-WP	WP Sulfide	WP0925	8270-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0925	8270-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0925	8270-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0925	8270-20
1	1	0	PT-SIO2-WP	WP Silica	WP0925	8270-21
1	1	0	PT-COL-WP	WP Color	WP0925	8270-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0925	8270-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0925	8270-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0925	8270-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0925	8270-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0925	8270-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0925	8270-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0925	8270-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0925	8270-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R41815	R41815-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R41815	R41815-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R41815	R41815-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R41815	R41815-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R41815	R41815-98



phenova[®]
Certified Reference Materials

A Phenomenex[®]
Company

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 #
09/05/2025	340092



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

9/9/2025 12:20

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	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	RR-TRIAZINE-WP	WP Triazine Pesticides	R41854	R41854-108

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312