

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

LAB CHRONICLE

OrderID: Q3301	OrderDate: 10/6/2025 4:22:50 PM
Client: Ronald Adams	Project: 19 Ashlynn Court
Contact: Ronald Adams	Location: D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3301-01	SOIL	SOIL	Gasoline Range Organics	8015D	09/10/25		10/08/25	10/06/25
			EPH	NJEPH		10/07/25	10/08/25	
Q3301-01DL	SOILDL	Solid			09/10/25			10/06/25
			EPH	NJEPH		10/07/25	10/08/25	
Q3301-01DL 2	SOILDL2	Solid			09/10/25			10/06/25
			EPH	NJEPH		10/07/25	10/08/25	



QC SUMMARY



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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance
Lab Code: ACE
Run Number: FC100925AL

Contract: RONA02
SDG No.: Q3301

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB170011BL	65			0
PB170011BS	86			0
PB170011BSD	76			0
SOIL	191 *			1
SOILDL	164 *			1
SOILDL2	164 *			1
SOILMS	107			0
SOILMSD	112			0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: RONA02
Lab Code: ACE SDG No.: Q3301
Run Number: FD100825AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB170011BL	111	112	125	0
PB170011BS	84	85	95	0
PB170011BSD	84	84	95	0
SOIL	190 *	144 *	92	2
SOILDL	181 *	150 *	94	2
SOILDL2	360 *	478 *	258 *	3
SOILMS	184 *	135	95	1
SOILMSD	180 *	144 *	93	2

QC LIMITS

2-Bromonaphthalene (SURR) (40-140)
2-Flurobiphenyl (SURR) (40-140)
ortho-Terphenyl (SURR) (40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

QC LIMITS

2-Bromonaphthalene (SURRE)

(40-140)

2-Fluorobiphenyl (SURRE)

(40-140)

ortho-Terphenyl (SURRE)

(40-140)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

D Surrogate diluted out

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>Q3301-01MS</u>	Datafile:	<u>FC069965.D</u>
		Client ID :	<u>SOILMS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	12.3	272	270	16	*	(40-140)
Aliphatic C12-C16	8.2	1020	1020	18	*	(40-140)
Aliphatic C16-C21	12.3	997	988	74		(40-140)
Aliphatic C21-C28	16.4	175	187	71		(40-140)
Aliphatic C28-C40	24.7	32.2	59.8	112		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	4.1	1.8240	3.7975	48		(40-140)
n-Decane (C10)	4.1	8.4324	13.8788	133		(40-140)
Naphthalene (C11.7)	4.1	12.9747	13.9723	24	*	(40-140)
n-Dodecane (C12)	4.1	32.6278	35.9315	81		(40-140)
2-methylnaphthalene (C12.89)	4.1	14.2011	24.4578	250	*	(40-140)
n-Tetradecane (C14)	4.1	68.9878	73.4850	110		(40-140)
n-Hexadecane (C16)	4.1	26.9516	27.7347	19	*	(40-140)
n-Octadecane (C18)	4.1	19.6558	19.1305	13	*	(40-140)
n-Eicosane (C20)	4.1	39.2887	41.5285	55		(40-140)
n-Heneicosane (C21)	4.1	41.2279	44.4791	79		(40-140)
n-Docosane (C22)	4.1	18.5603	22.4597	95		(40-140)
n-Tetracosane (C24)	8.2	5.2413	9.6310	54		(40-140)
n-Hexacosane (C26)	4.1	2.0021	7.0389	123		(40-140)
n-Octacosane (C28)	4.1	1.2980	5.7608	109		(40-140)
n-Tricontane (C30)	4.1	0.9661	5.3613	107		(40-140)
n-Dotriacontane (C32)	4.1	0.8313	5.2789	108		(40-140)
n-Tetratriacontane (C34)	4.1	1.1139	5.8565	116		(40-140)
n-Hexatriacontane (C36)	4.1	0.9091	6.9676	148	*	(40-140)
n-Octatriacontane (C38)	4.1	0.6037	6.7159	149	*	(40-140)
n-Tetracontane (C40)	4.1	0.0589	5.7474	139		(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>Q3301-01MSD</u>	Datafile:	<u>FC069966.D</u>
		Client ID :	<u>SOILMSD</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	12.3	272	273	8	*	594 * (40-140)	50
Aliphatic C12-C16	8.2	1020	962	699	*	210 * (40-140)	50
Aliphatic C16-C21	12.3	997	997	1	*	192 * (40-140)	50
Aliphatic C21-C28	16.4	175	191	95		29 (40-140)	50
Aliphatic C28-C40	24.7	32.2	56.0	97		14.7 (40-140)	50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
n-Nonane (C9)	4.1	1.8240	3.9380	52		8 (40-140)	50
n-Decane (C10)	4.1	8.4324	14.4158	146	*	9.32 (40-140)	50
Naphthalene (C11.7)	4.1	12.9747	14.5819	39	*	47.62 (40-140)	50
n-Dodecane (C12)	4.1	32.6278	37.1867	111		31.25 (40-140)	50
2-methylnaphthalene (C12.89)	4.1	14.2011	35.4648	519	*	69.96 * (40-140)	50
n-Tetradecane (C14)	4.1	68.9878	75.3511	155	*	33.96 (40-140)	50
n-Hexadecane (C16)	4.1	26.9516	31.5783	113		142.42 (40-140)	50
n-Octadecane (C18)	4.1	19.6558	0.0000	479	*	189.43 (40-140)	50
n-Eicosane (C20)	4.1	39.2887	44.0600	116		71.35 * (40-140)	50
n-Heneicosane (C21)	4.1	41.2279	45.9443	115		37.11 (40-140)	50
n-Docosane (C22)	4.1	18.5603	23.3397	117		20.75 (40-140)	50
n-Tetracosane (C24)	8.2	5.2413	9.9931	58		7.14 (40-140)	50
n-Hexacosane (C26)	4.1	2.0021	7.2448	128		3.98 (40-140)	50
n-Octacosane (C28)	4.1	1.2980	5.8781	112		2.71 (40-140)	50
n-Tricontane (C30)	4.1	0.9661	5.4110	108		0.93 (40-140)	50
n-Dotriacontane (C32)	4.1	0.8313	5.4671	113		4.52 (40-140)	50
n-Tetratriacontane (C34)	4.1	1.1139	5.8470	115		0.87 (40-140)	50
n-Hexatriacontane (C36)	4.1	0.9091	6.3396	132		11.43 (40-140)	50
n-Octatriacontane (C38)	4.1	0.6037	6.7337	150	*	0.67 (40-140)	50
n-Tetracontane (C40)	4.1	0.0589	5.8648	142	*	2.14 (40-140)	50

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>Q3301-01MS</u>	Datafile:	<u>FD049834.D</u>
		Client ID :	<u>SOILMS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	8.2	51.5	51.3	3	*	(40-140)
Aromatic C12-C16	12.3	272	239	271	*	(40-140)
Aromatic C16-C21	20.6	542	526	79		(40-140)
Aromatic C21-C36	32.9	76.3	138	187	*	(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
1,2,3-Trimethylbenzene (C10.1)	4.1	2.2235	5.4989	80		(40-140)
Naphthalene (C11.7)	4.1	5.4753	9.2778	93		(40-140)
2-Methylnaphthalene (C12.89)	4.1	9.1882	13.8594	114		(40-140)
Acenaphthylene (C15.06)	4.1	9.3248	15.1878	143	*	(40-140)
Acenaphthene (C15.5)	4.1	10.5958	22.2935	285	*	(40-140)
Fluorene (C16.55)	4.1	13.8560	19.9279	148	*	(40-140)
Phenanthrene (C19.36)	4.1	15.7594	19.2667	86		(40-140)
Anthracene (C19.43)	4.1	12.4994	32.8720	497	*	(40-140)
Pyrene (C20.8)	4.1	5.6698	12.9678	178	*	(40-140)
Fluoranthene (C21.85)	4.1	13.9668	21.5966	186	*	(40-140)
Benzo[a]anthracene (C26.37)	4.1	0.7804	9.1747	205	*	(40-140)
Chrysene (C27.41)	4.1	1.4569	18.4344	414	*	(40-140)
Benzo[k]fluoranthene (C30.14)	4.1	0.1666	16.9929	410	*	(40-140)
Dibenz[a,h]anthracene (C30.36)	4.1	0.0636	15.6711	381	*	(40-140)
benzo[b]fluoranthene (C30.41)	4.1	0.1268	8.1880	197	*	(40-140)
Benzo[a]pyrene (C31.34)	4.1	0.0641	7.9045	191	*	(40-140)
Benzo[g,h,i]perylene (C34.01)	4.1	0.0641	7.8562	190	*	(40-140)
Indeno[1,2,3-cd]pyrene (C35.01)	4.1	0.2555	9.0926	216	*	(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>Q3301-01MSD</u>	Datafile:	<u>FD049835.D</u>
		Client ID :	<u>SOILMSD</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aromatic C10-C12	8.2	51.5	51.0	7	*	75 * (40-140)	50
Aromatic C12-C16	12.3	272	246	214	*	23.5 (40-140)	50
Aromatic C16-C21	20.5	542	530	60		27.3 (40-140)	50
Aromatic C21-C36	32.9	76.3	137	184	*	1.62 (40-140)	50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
1,2,3-Trimethylbenzene (C10.1)	4.1	2.2235	5.4740	79		1.26 (40-140)	50
Naphthalene (C11.7)	4.1	5.4753	9.2292	92		1.08 (40-140)	50
2-Methylnaphthalene (C12.89)	4.1	9.1882	13.8308	113		0.88 (40-140)	50
Acenaphthylene (C15.06)	4.1	9.3248	15.0808	140		2.12 (40-140)	50
Acenaphthene (C15.5)	4.1	10.5958	22.1376	282	*	1.06 (40-140)	50
Fluorene (C16.55)	4.1	13.8560	19.6708	142	*	4.14 (40-140)	50
Phenanthrene (C19.36)	4.1	15.7594	19.2095	84		2.35 (40-140)	50
Anthracene (C19.43)	4.1	12.4994	32.7495	494	*	0.61 (40-140)	50
Pyrene (C20.8)	4.1	5.6698	12.9068	177	*	0.56 (40-140)	50
Fluoranthene (C21.85)	4.1	13.9668	21.3977	181	*	2.72 (40-140)	50
Benzo[a]anthracene (C26.37)	4.1	0.7804	9.0646	202	*	1.47 (40-140)	50
Chrysene (C27.41)	4.1	1.4569	18.2303	409	*	1.22 (40-140)	50
Benzo[k]fluoranthene (C30.14)	4.1	0.1666	16.8896	408	*	0.49 (40-140)	50
Dibenz[a,h]anthracene (C30.36)	4.1	0.0636	15.6306	380	*	0.26 (40-140)	50
benzo[b]fluoranthene (C30.41)	4.1	0.1268	8.1179	195	*	1.02 (40-140)	50
Benzo[a]pyrene (C31.34)	4.1	0.0641	7.8359	190	*	0.52 (40-140)	50
Benzo[g,h,i]perylene (C34.01)	4.1	0.0641	7.8076	189	*	0.53 (40-140)	50
Indeno[1,2,3-cd]pyrene (C35.01)	4.1	0.2555	9.0032	213	*	1.4 (40-140)	50

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>PB170011BS</u>	Datafile:	<u>FC069960.D</u>
		Client ID :	<u>PB170011BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	10	5.40	54		(40-140)
Aliphatic C12-C16	6.7	4.65	70		(40-140)
Aliphatic C16-C21	10	7.93	79		(40-140)
Aliphatic C21-C28	13.3	10.5	79		(40-140)
Aliphatic C28-C40	20.0	17.9	90		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	1.47201	45		(40-140)
n-Decane (C10)	3.3	1.81412	55		(40-140)
Naphthalene (C11.7)	3.3	0.00000	0	*	(40-140)
n-Dodecane (C12)	3.3	2.08315	63		(40-140)
2-methylnaphthalene (C12.89)	3.3	0.00000	0	*	(40-140)
n-Tetradecane (C14)	3.3	2.28544	69		(40-140)
n-Hexadecane (C16)	3.3	2.35883	71		(40-140)
n-Octadecane (C18)	3.3	2.49097	75		(40-140)
n-Eicosane (C20)	3.3	2.73581	83		(40-140)
n-Heneicosane (C21)	3.3	2.71005	82		(40-140)
n-Docosane (C22)	3.3	2.70060	82		(40-140)
n-Tetracosane (C24)	6.7	2.64159	39	*	(40-140)
n-Hexacosane (C26)	3.3	2.60934	79		(40-140)
n-Octacosane (C28)	3.3	2.58580	78		(40-140)
n-Tricontane (C30)	3.3	2.58966	78		(40-140)
n-Dotriacontane (C32)	3.3	2.68157	81		(40-140)
n-Tetatriacontane (C34)	3.3	2.90289	88		(40-140)
n-Hexatriacontane (C36)	3.3	3.20486	97		(40-140)
n-Octatriacontane (C38)	3.3	3.42927	104		(40-140)
n-Tetracontane (C40)	3.3	3.43112	104		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>PB170011BSD</u>	Datafile:	<u>FC069961.D</u>
		Client ID :	<u>PB170011BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	10	4.74	47		13.1 (40-140)	25
Aliphatic C12-C16	6.7	3.85	58		18.8 (40-140)	25
Aliphatic C16-C21	10	6.50	65		19.9 (40-140)	25
Aliphatic C21-C28	13.3	8.67	65		19.1 (40-140)	25
Aliphatic C28-C40	20.0	14.4	72		21.7 (40-140)	25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS(%)	QC Limit Of RPD
n-Nonane (C9)	3.3	1.31202	40		11.76 (40-140)	25
n-Decane (C10)	3.3	1.59655	48		13.59 (40-140)	25
Naphthalene (C11.7)	3.3	0.00000	0	*	0 (40-140)	25
n-Dodecane (C12)	3.3	1.80305	55		13.56 (40-140)	25
2-methylnaphthalene (C12.89)	3.3	0.00000	0	*	0 (40-140)	25
n-Tetradecane (C14)	3.3	1.90950	58		17.32 (40-140)	25
n-Hexadecane (C16)	3.3	1.94410	59		18.46 (40-140)	25
n-Octadecane (C18)	3.3	2.01243	61		20.59 (40-140)	25
n-Eicosane (C20)	3.3	2.25513	68		19.87 (40-140)	25
n-Heneicosane (C21)	3.3	2.24482	68		18.67 (40-140)	25
n-Docosane (C22)	3.3	2.22345	67		20.13 (40-140)	25
n-Tetracosane (C24)	6.7	2.17758	33	*	16.67 (40-140)	25
n-Hexacosane (C26)	3.3	2.14565	65		19.44 (40-140)	25
n-Octacosane (C28)	3.3	2.11904	64		19.72 (40-140)	25
n-Tricontane (C30)	3.3	2.07812	63		21.28 (40-140)	25
n-Dotriacontane (C32)	3.3	2.11584	64		23.45 (40-140)	25
n-Tetratriacontane (C34)	3.3	2.30262	70		22.78 (40-140)	25
n-Hexatriacontane (C36)	3.3	2.58099	78		21.71 (40-140)	25
n-Octatriacontane (C38)	3.3	2.80366	85		20.11 (40-140)	25
n-Tetracontane (C40)	3.3	2.82662	86		18.95 (40-140)	25

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>PB170011BS</u>	Datafile:	<u>FD049829.D</u>
		Client ID :	<u>PB170011BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	6.7	4.76	72		(40-140)
Aromatic C12-C16	10	7.86	79		(40-140)
Aromatic C16-C21	16.7	16.0	96		(40-140)
Aromatic C21-C36	26.6	26.9	100		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
1,2,3-Trimethylbenzene (C10.1)	3.3	2.29567	70		(40-140)
Naphthalene (C11.7)	3.3	2.45672	74		(40-140)
2-Methylnaphthalene (C12.89)	3.3	2.35442	71		(40-140)
Acenaphthylene (C15.06)	3.3	2.71927	82		(40-140)
Acenaphthene (C15.5)	3.3	2.77542	84		(40-140)
Flouorene (C16.55)	3.3	2.96899	90		(40-140)
Phenanthrene (C19.36)	3.3	3.14017	95		(40-140)
Anthracene (C19.43)	3.3	3.18400	96		(40-140)
Fluoranthene (C21.85)	3.3	3.32757	101		(40-140)
Pyrene (C20.8)	3.3	3.37328	102		(40-140)
Benzo[a]anthracene (C26.37)	3.3	3.45353	105		(40-140)
Chrysene (C27.41)	3.3	3.71195	112		(40-140)
benzo[b]fluoranthene (C30.41)	3.3	3.36860	102		(40-140)
Bnezo[k]fluoranthene (C30.14)	3.3	3.45456	105		(40-140)
Benzo[a]pyrene (C31.34)	3.3	3.30652	100		(40-140)
Indeno[1,2,3-cd]pyrene (C35.01)	3.3	3.71923	113		(40-140)
Dibenz[a,h]anthracene (C30.36)	3.3	3.24027	98		(40-140)
Benzo[g,h,i]perylene (C34.01)	3.3	3.11251	94		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Ronald Adams</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3301</u>
Sample No :	<u>PB170011BSD</u>	Datafile:	<u>FD049830.D</u>
		Client ID :	<u>PB170011BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aromatic C10-C12	6.7	4.77	72		0.13 (40-140) 25
Aromatic C12-C16	10	7.87	79		0.06 (40-140) 25
Aromatic C16-C21	16.7	16.1	97		0.58 (40-140) 25
Aromatic C21-C36	26.6	27.2	102		2 (40-140) 25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS(%) QC Limit Of RPD
1,2,3-Trimethylbenzene (C10.1)	3.3	2.30110	70		0 (40-140) 25
Naphthalene (C11.7)	3.3	2.46165	75		1.34 (40-140) 25
2-Methylnaphthalene (C12.89)	3.3	2.35849	71		0 (40-140) 25
Acenaphthylene (C15.06)	3.3	2.72181	82		0 (40-140) 25
Acenaphthene (C15.5)	3.3	2.77925	84		0 (40-140) 25
Flouorene (C16.55)	3.3	2.99639	91		1.1 (40-140) 25
Phenanthrene (C19.36)	3.3	3.15915	96		1.05 (40-140) 25
Anthracene (C19.43)	3.3	3.21200	97		1.04 (40-140) 25
Fluoranthene (C21.85)	3.3	3.34886	101		0 (40-140) 25
Pyrene (C20.8)	3.3	3.40601	103		0.98 (40-140) 25
Benzo[a]anthracene (C26.37)	3.3	3.48070	105		0 (40-140) 25
Chrysene (C27.41)	3.3	3.74979	114		1.77 (40-140) 25
benzo[b]fluoranthene (C30.41)	3.3	3.39836	103		0.98 (40-140) 25
Bnezo[k]fluoranthene (C30.14)	3.3	3.61861	110		4.65 (40-140) 25
Benzo[a]pyrene (C31.34)	3.3	3.34491	101		1 (40-140) 25
Indeno[1,2,3-cd]pyrene (C35.01)	3.3	3.74512	113		0 (40-140) 25
Dibenz[a,h]anthracene (C30.36)	3.3	3.27293	99		1.02 (40-140) 25
Benzo[g,h,i]perylene (C34.01)	3.3	3.13507	95		1.06 (40-140) 25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB170011BL

Lab Name: Alliance

Contract: RONA02

Lab Code: ACE

SDG NO.: Q3301

Instrument ID: FID_C

Lab Sample ID: PB170011BL

Matrix: (soil/water) Solid

Date Extracted: 10/7/2025 11:25:00

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB170011BS	PB170011BS
PB170011BSD	PB170011BSD
SOIL	Q3301-01
SOILMS	Q3301-01MS
SOILMSD	Q3301-01MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Ronald Adams	Date Collected:	09/10/25
Project:	19 Ashlynn Court	Date Received:	10/06/25
Client Sample ID:	SOIL	SDG No.:	Q3301
Lab Sample ID:	Q3301-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 11:25	10/08/25 15:08	PB170011

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	305		20	3.45	24.6	mg/kg FC069967.D
Aliphatic C12-C16	Aliphatic C12-C16	965		100	13.5	82.1	mg/kg FC069968.D
Aliphatic C16-C21	Aliphatic C16-C21	1010		100	16.0	123	mg/kg FC069968.D
Aliphatic C21-C28	Aliphatic C21-C28	175		20	13.0	32.8	mg/kg FC069967.D
Aliphatic C28-C40	Aliphatic C28-C40	32.2		1	1.45	2.46	mg/kg FC069963.D
Aromatic C10-C12	Aromatic C10-C12	47.7		5	0.74	4.10	mg/kg FD049836.D
Aromatic C12-C16	Aromatic C12-C16	290		25	7.08	30.8	mg/kg FD049837.D
Aromatic C16-C21	Aromatic C16-C21	562		25	12.3	51.3	mg/kg FD049837.D
Aromatic C21-C36	Aromatic C21-C36	75.7		5	7.32	16.4	mg/kg FD049836.D
Total AliphaticEPH	Total AliphaticEPH	2490			47.4	265	mg/kg
Total AromaticEPH	Total AromaticEPH	975			27.4	103	mg/kg
Total EPH	Total EPH	3460			74.8	368	mg/kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Ronald Adams	Date Collected:	09/10/25
Project:	19 Ashlynn Court	Date Received:	10/06/25
Client Sample ID:	SOIL	SDG No.:	Q3301
Lab Sample ID:	Q3301-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069963.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	272	E	0.17	1.23	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	1020	E	0.14	0.82	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	997	E	0.16	1.23	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	175	E	0.65	1.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	32.2		1.45	2.46	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	95.3		40 - 140	191%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.4		40 - 140	103%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3301-01	Acq On:	08 Oct 2025 12:16
Client Sample ID:	SOIL	Operator:	YP/AJ
Data file:	FC069963.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	479959359	3310	300	ug/ml
Aliphatic C12-C16	6.579	9.979	2034861834	12400	200	ug/ml
Aliphatic C16-C21	9.980	13.346	1967950096	12200	300	ug/ml
Aliphatic C21-C28	13.347	17.010	314354307	2140	400	ug/ml
Aliphatic C28-C40	17.011	21.966	42170715	391.922	600	ug/ml
Aliphatic EPH	3.284	21.966	4839296311	30400		ug/ml
ortho-Terphenyl (SURR)	11.649	11.649	9032156	51.43		ug/ml
1-chlorooctadecane (SURR)	13.104	13.104	12937624	95.31		ug/ml
Aliphatic C9-C28	3.284	17.010	4797125596	30000	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069963.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 12:16
 Operator : YP/AJ
 Sample : Q3301-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 SOIL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 05:29:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.649	9032156	51.435 ug/mlm
Spiked Amount 50.000		Recovery =	102.87%
12) S 1-chlorooctadecane (S...	13.104	12937624	95.310 ug/ml
Spiked Amount 50.000		Recovery =	190.62%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069963.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 12:16
Operator : YP/AJ
Sample : Q3301-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

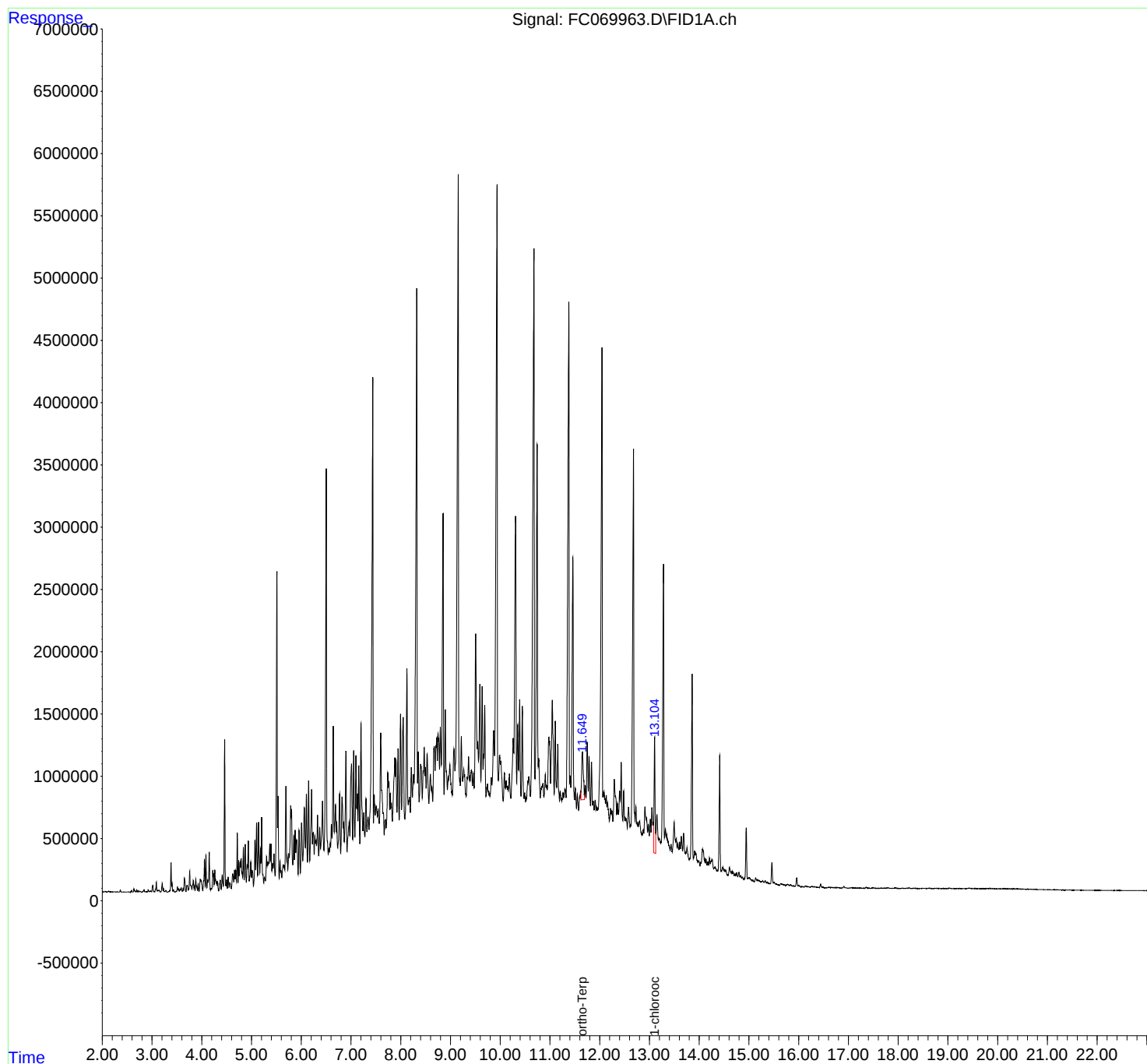
Instrument :
FID_C
ClientSampleId :
SOIL

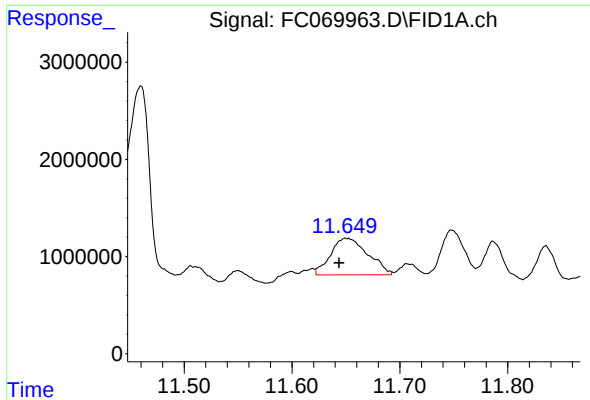
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 05:29:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





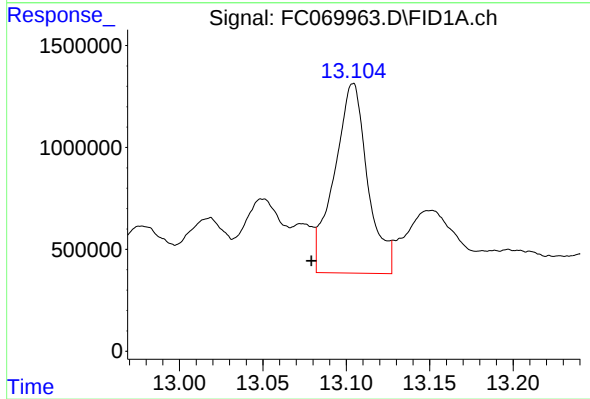
#9 ortho-Terphenyl (SURR)

R.T.: 11.649 min
Delta R.T.: 0.005 min
Response: 9032156
Conc: 51.43 ug/ml

Instrument :
FID_C
ClientSampleId :
SOIL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.104 min
Delta R.T.: 0.025 min
Response: 12937624
Conc: 95.31 ug/ml

riteres

Instrument :

FID_C

ClientSampleId :

SOIL

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10092
Data File : FC069963.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 12:16
Sample : Q3301-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.231	3.204	3.249	BV	1738	-238590	-0.15%	-0.005%
2	3.278	3.249	3.309	PV	13344	166294	0.10%	0.003%
3	3.383	3.309	3.464	PV	234800	3052277	1.86%	0.063%
4	3.511	3.464	3.550	PV	40242	783798	0.48%	0.016%
5	3.586	3.550	3.611	VV	36675	699292	0.43%	0.014%
6	3.655	3.611	3.683	VV	106936	1927726	1.18%	0.040%
7	3.708	3.683	3.732	VV	52716	1027069	0.63%	0.021%
8	3.758	3.732	3.801	VV	166915	2638444	1.61%	0.055%
9	3.829	3.801	3.864	VV	90938	1916361	1.17%	0.040%
10	3.882	3.864	3.946	VV	101811	2145570	1.31%	0.044%
11	3.974	3.946	4.021	VV	99211	2745044	1.67%	0.057%
12	4.084	4.021	4.105	VV	295744	6324440	3.86%	0.131%
13	4.151	4.105	4.195	VV	322811	5151702	3.14%	0.106%
14	4.226	4.195	4.248	VV	153558	3113990	1.90%	0.064%
15	4.264	4.248	4.340	VV	175551	4522052	2.76%	0.093%
16	4.370	4.340	4.390	VV	97088	1565046	0.95%	0.032%
17	4.412	4.390	4.434	VV	139861	2086507	1.27%	0.043%
18	4.460	4.434	4.488	VV	1259307	12686536	7.74%	0.262%
19	4.532	4.488	4.551	VV	119137	2667359	1.63%	0.055%
20	4.567	4.551	4.592	VV	69804	1354655	0.83%	0.028%
21	4.623	4.592	4.642	VV	144413	2858609	1.74%	0.059%
22	4.659	4.642	4.698	VV	175519	4376944	2.67%	0.090%
23	4.714	4.698	4.754	VV	476709	7467657	4.55%	0.154%
24	4.790	4.754	4.821	VV	269587	7790197	4.75%	0.161%
25	4.836	4.821	4.853	VV	357499	4251968	2.59%	0.088%
26	4.873	4.853	4.896	VV	380855	5643457	3.44%	0.117%
27	4.935	4.896	4.958	VV	411615	7848615	4.79%	0.162%
28	4.985	4.958	5.041	VV	242575	7373899	4.50%	0.152%
29	5.102	5.041	5.124	VV	554053	13291324	8.11%	0.275%
30	5.142	5.124	5.168	VV	552972	8128356	4.96%	0.168%
31	5.204	5.168	5.281	VV	601446	14381359	8.77%	0.297%
32	5.367	5.281	5.434	VV	389253	22591213	13.78%	0.467%
33	5.452	5.434	5.473	VV	305937	5268799	3.21%	0.109%
34	5.509	5.473	5.558	VV	2500145	40702569	24.82%	0.841%
35	5.574	5.558	5.609	VV	244276	5258494	3.21%	0.109%
36	5.638	5.609	5.668	VV	218703	6689448	4.08%	0.138%

					rters				
90	9.268	9.244	9.318	VV	980655	38961346	23.76%	0.805%	
91	9.364	9.318	9.393	VV	1083932	41757204			
92	9.420	9.393	9.442	VV	976266	27595754			
93	9.457	9.442	9.478	VV	949330	18830611			
94	9.507	9.478	9.564	VV	2061028	69964867			
95	9.590	9.564	9.613	VV	1676678	36884402			
96	9.637	9.613	9.658	VV	1645727	33336516	20.33%	0.689%	
97	9.689	9.658	9.718	VV	1489904	39499357	24.09%	0.816%	
98	9.743	9.718	9.794	VV	859814	37059373	22.60%	0.766%	
99	9.868	9.794	9.888	VV	1289455	55349720	33.76%	1.144%	
100	9.932	9.888	9.963	VV	5337505	123858764	75.54%	2.559%	
101	9.989	9.963	10.059	VV	1073665	55063995	33.58%	1.138%	
102	10.085	10.059	10.106	VV	952916	23681336	14.44%	0.489%	
103	10.121	10.106	10.164	VV	886652	29918494	18.25%	0.618%	
104	10.184	10.164	10.214	VV	942030	25296945	15.43%	0.523%	
105	10.307	10.214	10.334	VV	3006677	104395328	63.67%	2.157%	
106	10.352	10.334	10.370	VV	1332300	23945213	14.60%	0.495%	
107	10.391	10.370	10.418	VV	1545406	32609775	19.89%	0.674%	
108	10.444	10.418	10.511	VV	1487438	51580581	31.46%	1.066%	
109	10.575	10.511	10.606	VV	915431	47754622	29.13%	0.987%	
110	10.674	10.606	10.701	VV	4967466	128922963	78.63%	2.664%	
111	10.740	10.701	10.808	VV	3558315	99327318	60.58%	2.053%	
112	10.856	10.808	10.880	VV	868953	35379100	21.58%	0.731%	
113	10.906	10.880	10.943	VV	937474	32493960	19.82%	0.671%	
114	10.980	10.943	11.012	VV	1227368	44015346	26.84%	0.910%	
115	11.047	11.012	11.085	VV	1526322	50672692	30.90%	1.047%	
116	11.107	11.085	11.132	VV	1366208	29028615	17.70%	0.600%	
117	11.157	11.132	11.192	VV	1185611	32512613	19.83%	0.672%	
118	11.208	11.192	11.237	VV	801812	20642708	12.59%	0.427%	
119	11.303	11.237	11.324	VV	819357	40751827	24.85%	0.842%	
120	11.375	11.324	11.419	VV	4443324	113595499	69.28%	2.347%	
121	11.458	11.419	11.492	VV	2670715	63690089	38.84%	1.316%	
122	11.509	11.492	11.533	VV	820216	18457017	11.26%	0.381%	
123	11.551	11.533	11.575	VV	777197	18268669	11.14%	0.378%	
124	11.651	11.575	11.723	VV	1110734	75873138	46.27%	1.568%	
125	11.749	11.723	11.771	VV	1197081	27631260	16.85%	0.571%	
126	11.787	11.771	11.814	VV	1074897	22841540	13.93%	0.472%	
127	11.835	11.814	11.887	VV	1033352	33810448	20.62%	0.699%	
128	11.908	11.887	11.955	VV	728988	27917415	17.03%	0.577%	
129	12.042	11.955	12.195	VV	4062773	163964345	100.00%	3.388%	
130	12.221	12.195	12.265	VV	659680	25994557	15.85%	0.537%	
131	12.295	12.265	12.341	VV	887923	33954210	20.71%	0.702%	
132	12.357	12.341	12.378	VV	706476	14438547	8.81%	0.298%	
133	12.432	12.378	12.464	VV	1035586	38902477	23.73%	0.804%	
134	12.482	12.464	12.554	VV	805934	32977203	20.11%	0.681%	
135	12.580	12.554	12.618	VV	673455	22080831	13.47%	0.456%	
136	12.676	12.618	12.710	VV	3246798	76814052	46.85%	1.587%	
137	12.727	12.710	12.773	VV	678202	22079607	13.47%	0.456%	
138	12.800	12.773	12.858	VV	561061	25723500	15.69%	0.532%	
139	12.911	12.858	12.996	VV	675414	44491237	27.13%	0.919%	
140	13.050	12.996	13.081	VV	669839	27980563	17.07%	0.578%	
141	13.103	13.081	13.128	VV	1252518	21697821	13.23%	0.448%	

Instrument :

FID_C

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

					riteres				
142	13.150	13.128	13.231	VV	614328	28760009	17.54%	0.594%	
143	13.280	13.231	13.418	VV	2598409	78012631	47.54%	0.594%	
144	13.435	13.418	13.461	VV	374939	8969268	5.06%	0.261%	
145	13.497	13.461	13.591	VV	553378	31665746	19.19%	0.719%	
146	13.609	13.591	13.623	VV	394493	7061827	4.06%	0.273%	
147	13.642	13.623	13.668	VV	438737	10170064	6.06%	0.273%	
148	13.688	13.668	13.728	VV	463463	13223657	8.06%	0.273%	
149	13.755	13.728	13.797	VV	346132	12640407	7.71%	0.261%	
150	13.857	13.797	13.888	VV	1756428	34808727	21.23%	0.719%	
151	13.910	13.888	14.016	VV	320186	20323351	12.39%	0.420%	
152	14.070	14.016	14.159	VV	329719	22281058	13.59%	0.460%	
153	14.175	14.159	14.191	VV	233068	4311956	2.63%	0.089%	
154	14.208	14.191	14.224	VV	267222	4793852	2.92%	0.099%	
155	14.257	14.224	14.301	VV	256308	10190499	6.22%	0.211%	
156	14.318	14.301	14.374	VV	196102	7747593	4.73%	0.160%	
157	14.411	14.374	14.451	VV	1077322	18666183	11.38%	0.386%	
158	14.474	14.451	14.581	VV	188329	12500823	7.62%	0.258%	
159	14.609	14.581	14.704	VV	191202	11274777	6.88%	0.233%	
160	14.721	14.704	14.735	VV	139859	2405325	1.47%	0.050%	
161	14.753	14.735	14.774	VV	144470	3058296	1.87%	0.063%	
162	14.798	14.774	14.901	VV	151939	8859374	5.40%	0.183%	
163	14.945	14.901	14.977	VV	508250	9685107	5.91%	0.200%	
164	14.998	14.977	15.107	VV	111219	7165218	4.37%	0.148%	
165	15.135	15.107	15.169	VV	103414	3358951	2.05%	0.069%	
166	15.184	15.169	15.261	VV	88747	4418717	2.69%	0.091%	
167	15.276	15.261	15.308	VV	82247	2105525	1.28%	0.044%	
168	15.326	15.308	15.351	VV	82991	1953011	1.19%	0.040%	
169	15.368	15.351	15.423	VV	71529	2741568	1.67%	0.057%	
170	15.461	15.423	15.613	VV	227867	8741891	5.33%	0.181%	
171	15.643	15.613	15.741	VV	59314	3929747	2.40%	0.081%	
172	15.776	15.741	15.813	VV	51870	2102283	1.28%	0.043%	
173	15.831	15.813	15.928	VV	47812	2909428	1.77%	0.060%	
174	15.960	15.928	16.042	VV	105216	3531398	2.15%	0.073%	
175	16.060	16.042	16.101	VV	34723	1175230	0.72%	0.024%	
176	16.134	16.101	16.228	VV	39212	2614024	1.59%	0.054%	
177	16.272	16.228	16.408	VV	36615	3413354	2.08%	0.071%	
178	16.442	16.408	16.537	VV	55486	2468102	1.51%	0.051%	
179	16.555	16.537	16.571	VV	25460	519603	0.32%	0.011%	
180	16.608	16.571	16.638	VV	30046	1102188	0.67%	0.023%	
181	16.657	16.638	16.699	VV	28321	981564	0.60%	0.020%	
182	16.742	16.699	16.850	VV	27472	2297002	1.40%	0.047%	
183	16.908	16.850	16.993	VV	36345	2187613	1.33%	0.045%	
184	17.063	16.993	17.124	VV	26369	1828697	1.12%	0.038%	
185	17.136	17.124	17.185	VV	23185	826719	0.50%	0.017%	
186	17.201	17.185	17.221	VV	22843	481825	0.29%	0.010%	
187	17.236	17.221	17.321	VV	23399	1298036	0.79%	0.027%	
188	17.358	17.321	17.435	VV	27621	1543988	0.94%	0.032%	
189	17.495	17.435	17.571	VV	24814	1751459	1.07%	0.036%	
190	17.587	17.571	17.628	VV	20555	681815	0.42%	0.014%	
191	17.658	17.628	17.685	VV	21259	705479	0.43%	0.015%	
192	17.733	17.685	17.767	VV	21613	1020547	0.62%	0.021%	
193	17.795	17.767	17.897	VV	25043	1607503	0.98%	0.033%	
194	17.944	17.897	18.044	VV	23487	1778975	1.08%	0.037%	

Instrument :

FID_C

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

195	18.093	18.044	18.138	VV	20772	1083471	0.66%	0.022%
196	18.222	18.138	18.271	VV	24907	1602669		
197	18.286	18.271	18.298	VV	18809	293815		
198	18.319	18.298	18.341	VV	19660	491988		
199	18.356	18.341	18.401	VV	20088	670982		
200	18.410	18.401	18.429	VV	18424	291693		
201	18.491	18.429	18.584	VV	19155	1696135	1.03%	0.035%
202	18.628	18.584	18.703	VV	22300	1306181	0.80%	0.027%
203	18.750	18.703	18.810	VV	18988	1130998	0.69%	0.023%
204	18.827	18.810	18.861	VV	17842	525768	0.32%	0.011%
205	18.924	18.861	18.978	VV	17662	1187068	0.72%	0.025%
206	19.028	18.978	19.107	VV	20939	1359406	0.83%	0.028%
207	19.145	19.107	19.170	VV	17726	631241	0.38%	0.013%
208	19.219	19.170	19.258	VV	18015	900528	0.55%	0.019%
209	19.289	19.258	19.353	VV	16586	921821	0.56%	0.019%
210	19.414	19.353	19.502	VV	20141	1548871	0.94%	0.032%
211	19.523	19.502	19.621	VV	16736	1144395	0.70%	0.024%
212	19.645	19.621	19.709	VV	16105	825448	0.50%	0.017%
213	19.726	19.709	19.747	VV	15710	363192	0.22%	0.008%
214	19.833	19.747	19.876	VV	17702	1260063	0.77%	0.026%
215	19.897	19.876	19.945	VV	15224	623883	0.38%	0.013%
216	19.963	19.945	19.983	VV	15322	334504	0.20%	0.007%
217	20.020	19.983	20.084	VV	14912	862483	0.53%	0.018%
218	20.145	20.084	20.206	VV	15636	1071422	0.65%	0.022%
219	20.222	20.206	20.241	VV	14590	299813	0.18%	0.006%
220	20.250	20.241	20.321	VV	14486	658050	0.40%	0.014%
221	20.338	20.321	20.578	VV	14222	1887381	1.15%	0.039%
222	20.611	20.578	20.714	VV	10717	800508	0.49%	0.017%
223	20.729	20.714	20.749	VV	9196	188590	0.12%	0.004%
224	20.766	20.749	20.854	VV	9234	507226	0.31%	0.010%
225	20.905	20.854	21.011	VV	7689	641196	0.39%	0.013%
226	21.027	21.011	21.092	VV	6245	271170	0.17%	0.006%
227	21.109	21.092	21.164	VV	5262	209954	0.13%	0.004%
228	21.177	21.164	21.321	VV	4565	375761	0.23%	0.008%
229	21.338	21.321	21.454	VV	3530	245053	0.15%	0.005%
230	21.468	21.454	21.705	VV	2825	295305	0.18%	0.006%
231	21.725	21.705	21.750	VV	1476	32754	0.02%	0.001%
232	21.786	21.750	21.824	VV	1133	45959	0.03%	0.001%
233	21.864	21.824	21.985	VV	1128	58927	0.04%	0.001%

Sum of corrected areas: 4839224020

Aliphatic EPH 100725.M Thu Oct 09 06:17:46 2025

Instrument :

FID_C

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	09/10/25
Project:	19 Ashlynn Court	Date Received:	10/06/25
Client Sample ID:	SOILDL	SDG No.:	Q3301
Lab Sample ID:	Q3301-01DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069967.D	20	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	305		3.45	24.6	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	955	E	2.71	16.4	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	899	E	3.20	24.6	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	175		13.0	32.8	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	29.0	U	29.0	49.2	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	4.09		40 - 140	164%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	3.05		40 - 140	122%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3301-01DL	Acq On:	08 Oct 2025 15:08
Client Sample ID:	SOILDL	Operator:	YP/AJ
Data file:	FC069967.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	20	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	26909196	185.856	300	ug/ml
Aliphatic C12-C16	6.579	9.979	95346699	582.155	200	ug/ml
Aliphatic C16-C21	9.980	13.346	88727682	547.886	300	ug/ml
Aliphatic C21-C28	13.347	17.010	15769243	107.17	400	ug/ml
Aliphatic C28-C40	17.011	21.966	1276697	11.865	600	ug/ml
Aliphatic EPH	3.284	21.966	228029517	1430		ug/ml
ortho-Terphenyl (SURR)	11.613	11.613	535698	3.05		ug/ml
1-chlorooctadecane (SURR)	13.076	13.076	555271	4.09		ug/ml
Aliphatic C9-C28	3.284	17.010	226752820	1420	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069967.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 15:08
 Operator : YP/AJ
 Sample : Q3301-01DL 20X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 SOILDL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 05:52:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.613	535698	3.051 ug/mlm
Spiked Amount 50.000		Recovery =	6.10%
12) S 1-chlorooctadecane (S...	13.076	555271	4.091 ug/mlm
Spiked Amount 50.000		Recovery =	8.18%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069967.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 15:08
Operator : YP/AJ
Sample : Q3301-01DL 20X
Misc :
ALS Vial : 18 Sample Multiplier: 1

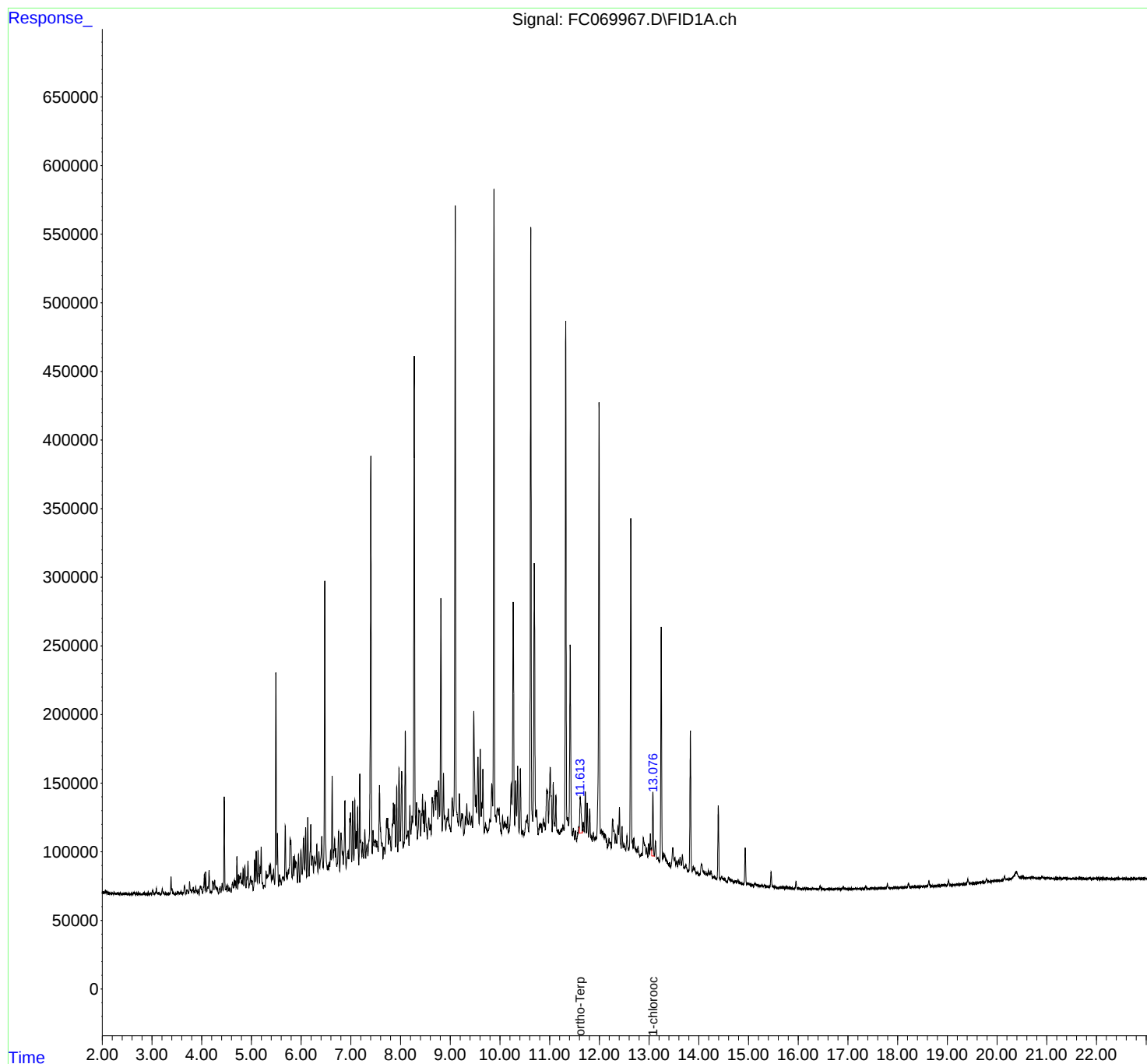
Instrument :
FID_C
ClientSampleId :
SOILD

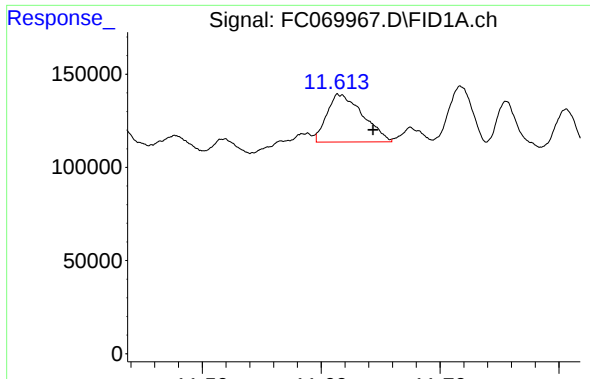
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 05:52:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





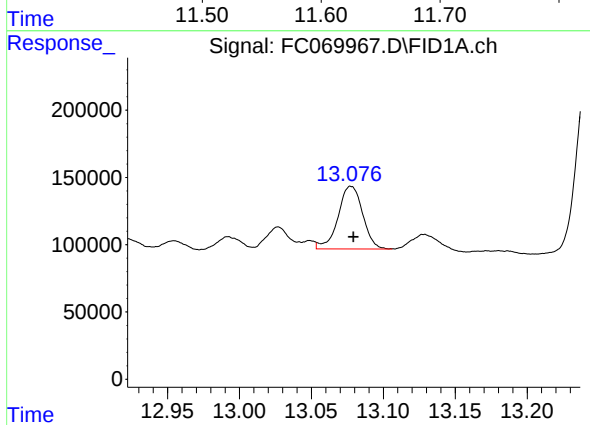
#9 ortho-Terphenyl (SURR)

R.T.: 11.613 min
Delta R.T.: -0.030 min
Response: 535698
Conc: 3.05 ug/ml

Instrument :
FID_C
ClientSampleId :
SOILDL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.076 min
Delta R.T.: -0.003 min
Response: 555271
Conc: 4.09 ug/ml m

rteres

Instrument :

FID_C

ClientSampleId :

SOILD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10092
Data File : FC069967.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 15:08
Sample : Q3301-01DL 20X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.280	3.221	3.313	BV	222	-15413	-0.19%	-0.007%
2	3.335	3.313	3.343	PV	327	3231	0.04%	0.001%
3	3.384	3.343	3.422	VV	12889	160818	1.97%	0.071%
4	3.434	3.422	3.466	VV	1227	13920	0.17%	0.006%
5	3.512	3.466	3.526	PV	2397	30378	0.37%	0.013%
6	3.536	3.526	3.550	VV	1577	16571	0.20%	0.007%
7	3.587	3.550	3.612	VV	2122	41030	0.50%	0.018%
8	3.654	3.612	3.684	VV	6293	108817	1.33%	0.048%
9	3.706	3.684	3.731	VV	3071	57016	0.70%	0.025%
10	3.758	3.731	3.802	VV	9348	150144	1.84%	0.066%
11	3.831	3.802	3.866	VV	5250	108216	1.32%	0.047%
12	3.881	3.866	3.915	VV	5707	80432	0.98%	0.035%
13	3.929	3.915	3.946	VV	3752	35688	0.44%	0.016%
14	3.972	3.946	4.019	VV	5893	152418	1.87%	0.067%
15	4.054	4.019	4.068	VV	14382	186736	2.29%	0.082%
16	4.082	4.068	4.102	VV	16331	166894	2.04%	0.073%
17	4.150	4.102	4.174	VV	17534	276227	3.38%	0.121%
18	4.184	4.174	4.194	VV	1675	16231	0.20%	0.007%
19	4.223	4.194	4.247	VV	9596	173300	2.12%	0.076%
20	4.262	4.247	4.289	VV	10092	155989	1.91%	0.068%
21	4.297	4.289	4.309	VV	4782	49798	0.61%	0.022%
22	4.318	4.309	4.339	VV	4559	45912	0.56%	0.020%
23	4.371	4.339	4.388	VV	5391	85708	1.05%	0.038%
24	4.411	4.388	4.431	VV	7757	112368	1.38%	0.049%
25	4.454	4.431	4.488	VV	70670	721279	8.83%	0.316%
26	4.499	4.488	4.512	VV	5812	59820	0.73%	0.026%
27	4.528	4.512	4.549	VV	6401	90619	1.11%	0.040%
28	4.564	4.549	4.589	VV	4011	73729	0.90%	0.032%
29	4.620	4.589	4.641	VV	8235	163852	2.01%	0.072%
30	4.656	4.641	4.668	VV	10034	122893	1.50%	0.054%
31	4.680	4.668	4.692	VV	9627	110022	1.35%	0.048%
32	4.709	4.692	4.725	VV	27279	276324	3.38%	0.121%
33	4.740	4.725	4.751	VV	14123	148789	1.82%	0.065%
34	4.764	4.751	4.774	VV	12780	155417	1.90%	0.068%
35	4.787	4.774	4.816	VV	15380	272218	3.33%	0.119%
36	4.833	4.816	4.849	VV	18439	236509	2.90%	0.104%

					rters			
37	4.868	4.849	4.892	VV	20466	316381	3.87%	0.139%
38	4.931	4.892	4.950	VV	23940	427005		
39	4.982	4.950	4.996	VV	12659	240050		
40	5.008	4.996	5.035	VV	9718	173833		
41	5.064	5.035	5.078	VV	24582	298434		
42	5.096	5.078	5.117	VV	30942	430178		
43	5.134	5.117	5.162	VV	31428	462553	5.66%	0.203%
44	5.176	5.162	5.183	VV	19666	188061	2.30%	0.082%
45	5.197	5.183	5.239	VV	34189	496143	6.07%	0.218%
46	5.256	5.239	5.273	VV	6465	113658	1.39%	0.050%
47	5.296	5.273	5.307	VV	16537	224332	2.75%	0.098%
48	5.317	5.307	5.337	VV	13625	229401	2.81%	0.101%
49	5.361	5.337	5.374	VV	20444	362791	4.44%	0.159%
50	5.385	5.374	5.402	VV	21459	278031	3.40%	0.122%
51	5.416	5.402	5.428	VV	12803	177734	2.18%	0.078%
52	5.445	5.428	5.467	VV	17415	282549	3.46%	0.124%
53	5.493	5.467	5.511	VV	160320	1738008	21.28%	0.762%
54	5.522	5.511	5.548	VV	44132	546477	6.69%	0.240%
55	5.565	5.548	5.601	VV	13889	297454	3.64%	0.130%
56	5.630	5.601	5.659	VV	12131	370372	4.53%	0.162%
57	5.682	5.659	5.702	VV	49638	680009	8.32%	0.298%
58	5.710	5.702	5.722	VV	15742	160130	1.96%	0.070%
59	5.742	5.722	5.751	VV	17178	251619	3.08%	0.110%
60	5.780	5.751	5.821	VV	39582	1090402	13.35%	0.478%
61	5.842	5.821	5.855	VV	27124	369241	4.52%	0.162%
62	5.869	5.855	5.881	VV	27096	339684	4.16%	0.149%
63	5.893	5.881	5.928	VV	22901	517132	6.33%	0.227%
64	5.948	5.928	5.974	VV	28630	475564	5.82%	0.209%
65	5.997	5.974	6.021	VV	31585	591628	7.24%	0.259%
66	6.050	6.021	6.070	VV	40450	797441	9.76%	0.350%
67	6.092	6.070	6.113	VV	48281	716918	8.78%	0.314%
68	6.135	6.113	6.161	VV	55139	809004	9.90%	0.355%
69	6.195	6.161	6.213	VV	50210	938192	11.49%	0.411%
70	6.230	6.213	6.250	VV	26304	524476	6.42%	0.230%
71	6.266	6.250	6.297	VV	26202	619830	7.59%	0.272%
72	6.316	6.297	6.339	VV	35603	641840	7.86%	0.281%
73	6.359	6.339	6.376	VV	30311	513837	6.29%	0.225%
74	6.416	6.376	6.444	VV	41739	1093767	13.39%	0.480%
75	6.477	6.444	6.528	VV	226738	3172040	38.83%	1.391%
76	6.541	6.528	6.554	VV	20426	293684	3.60%	0.129%
77	6.594	6.554	6.606	VV	31050	729319	8.93%	0.320%
78	6.626	6.606	6.646	VV	84934	1163295	14.24%	0.510%
79	6.675	6.646	6.689	VV	39739	844109	10.33%	0.370%
80	6.698	6.689	6.718	VV	32567	454495	5.56%	0.199%
81	6.755	6.718	6.778	VV	45144	1041675	12.75%	0.457%
82	6.804	6.778	6.849	VV	43814	1339673	16.40%	0.588%
83	6.881	6.849	6.906	VV	67297	1259822	15.42%	0.552%
84	6.948	6.906	6.961	VV	30699	859220	10.52%	0.377%
85	6.995	6.961	7.018	VV	58555	1493278	18.28%	0.655%
86	7.038	7.018	7.061	VV	66764	1087014	13.31%	0.477%
87	7.081	7.061	7.099	VV	67551	1013194	12.40%	0.444%
88	7.111	7.099	7.123	VV	45154	554452	6.79%	0.243%
89	7.138	7.123	7.161	VV	62354	936435	11.46%	0.411%

Instrument :

FID_C

ClientSampleId :

SOILDL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

							Instrument : FID_C	
							ClientSampleId : SOILDL	
rteres								
90	7.181	7.161	7.223	VV	86566	1639684	20.07%	0.719%
91	7.238	7.223	7.262	VV	36654	714279	Manual IntegrationsAPPROVED Reviewed By :Yogesh Patel 10/09/2025 Supervised By :mohammad ahmed 10/10/2025	
92	7.283	7.262	7.301	VV	46171	802540		
93	7.326	7.301	7.345	VV	34985	810943		
94	7.494	7.466	7.511	VV	38477	989425		
95	7.524	7.511	7.549	VV	37661	798496		
96	7.577	7.549	7.648	VV	78299	2618930	32.06%	1.149%
97	7.665	7.648	7.686	VV	33497	702367	8.60%	0.308%
98	7.741	7.686	7.757	VV	54503	1866225	22.85%	0.818%
99	7.788	7.782	7.811	VV	41067	638033	7.81%	0.280%
100	7.857	7.811	7.870	VV	65315	1729207	21.17%	0.758%
101	7.881	7.870	7.901	VV	64485	949553	11.62%	0.416%
102	7.924	7.901	7.945	VV	77480	1311069	16.05%	0.575%
103	7.970	7.945	7.993	VV	89800	1597820	19.56%	0.701%
104	8.024	7.993	8.052	VV	88209	2050430	25.10%	0.899%
105	8.188	8.170	8.208	VV	63257	1135526	13.90%	0.498%
106	8.232	8.208	8.243	VV	55727	1049884	12.85%	0.460%
107	8.321	8.305	8.341	VV	65424	1142292	13.98%	0.501%
108	8.442	8.404	8.481	VV	71714	2539615	31.09%	1.114%
109	8.568	8.538	8.588	VV	54093	1417253	17.35%	0.622%
110	8.638	8.616	8.663	VV	68725	1673108	20.48%	0.734%
111	8.696	8.663	8.709	VV	74782	1840452	22.53%	0.807%
112	8.723	8.709	8.751	VV	74212	1694344	20.74%	0.743%
113	8.767	8.751	8.787	VV	81222	1444710	17.69%	0.634%
114	8.865	8.838	8.910	VV	86912	2566023	31.41%	1.125%
115	8.939	8.910	8.947	VV	54510	1110451	13.59%	0.487%
116	8.961	8.947	9.011	VV	61014	1980830	24.25%	0.869%
117	9.040	9.011	9.062	VV	68155	1802360	22.06%	0.790%
118	9.101	9.062	9.164	VV	499684	8168496	100.00%	3.582%
119	9.184	9.164	9.210	VV	71700	1657998	20.30%	0.727%
120	9.235	9.210	9.272	VV	57323	1936980	23.71%	0.849%
121	9.304	9.272	9.315	VV	54740	1235665	15.13%	0.542%
122	9.334	9.315	9.371	VV	64701	1824803	22.34%	0.800%
123	9.386	9.371	9.414	VV	57539	1390846	17.03%	0.610%
124	9.431	9.414	9.449	VV	55153	1069561	13.09%	0.469%
125	9.475	9.449	9.506	VV	131707	2962699	36.27%	1.299%
126	9.517	9.506	9.531	VV	70752	976347	11.95%	0.428%
127	9.558	9.531	9.581	VV	98390	2214759	27.11%	0.971%
128	9.604	9.581	9.624	VV	104466	1889550	23.13%	0.829%
129	9.636	9.624	9.642	VV	64723	663126	8.12%	0.291%
130	9.657	9.642	9.686	VV	89275	1713813	20.98%	0.752%
131	9.711	9.686	9.751	VV	49332	1800976	22.05%	0.790%
132	9.795	9.751	9.811	VV	52359	1735242	21.24%	0.761%
133	9.837	9.811	9.854	VV	78258	1724355	21.11%	0.756%
134	9.880	9.854	9.926	VV	510568	7391171	90.48%	3.241%
135	9.958	9.926	9.972	VV	61383	1598482	19.57%	0.701%
136	9.983	9.972	10.030	VV	60521	1773802	21.72%	0.778%
137	10.053	10.030	10.072	VV	55262	1212889	14.85%	0.532%
138	10.091	10.072	10.138	VV	50703	1933183	23.67%	0.848%
139	10.155	10.138	10.174	VV	54502	1083050	13.26%	0.475%
140	10.226	10.174	10.240	VV	79200	2286190	27.99%	1.003%
141	10.268	10.240	10.297	VV	210832	3974107	48.65%	1.743%

Instrument : FID_C									
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rteres									
142	10.317	10.297	10.336	VV	81117	1519165	18.60%	0.666%	
143	10.357	10.336	10.385	VV	91716	1923066	23.75%	0.769%	
144	10.411	10.385	10.444	VV	89642	2101868	25.98%	0.877%	
145	10.463	10.444	10.482	VV	44283	981084	12.26%	0.583%	
146	10.551	10.482	10.577	VV	55554	2758600	33.82%	1.285%	
147	10.621	10.577	10.660	VV	482499	7479235	91.22%	3.415%	
148	10.692	10.660	10.722	VV	238329	4472690	54.76%	1.961%	
149	10.737	10.722	10.770	VV	59599	1488664	18.22%	0.653%	
150	10.804	10.770	10.817	VV	49106	1328486	16.26%	0.583%	
151	10.829	10.817	10.846	VV	49243	812086	9.94%	0.356%	
152	10.873	10.846	10.888	VV	52705	1213057	14.85%	0.532%	
153	10.898	10.888	10.914	VV	49782	742879	9.09%	0.326%	
154	10.944	10.914	10.978	VV	74067	2449125	29.98%	1.074%	
155	11.011	10.978	11.052	VV	90262	3014649	36.91%	1.322%	
156	11.073	11.052	11.108	VV	79447	1940202	23.75%	0.851%	
157	11.126	11.108	11.164	VV	70112	1754481	21.48%	0.769%	
158	11.177	11.164	11.202	VV	45001	986364	12.08%	0.433%	
159	11.233	11.202	11.246	VV	45363	1167883	14.30%	0.512%	
160	11.265	11.246	11.289	VV	47965	1198106	14.67%	0.525%	
161	11.477	11.455	11.501	VV	46046	1165937	14.27%	0.511%	
162	11.518	11.501	11.541	VV	43969	972929	11.91%	0.427%	
163	11.676	11.660	11.694	VV	50261	954059	11.68%	0.418%	
164	11.718	11.694	11.739	VV	72291	1565401	19.16%	0.687%	
165	11.877	11.857	11.907	VV	42660	1169322	14.32%	0.513%	
166	11.918	11.907	11.933	VV	38564	609116	7.46%	0.267%	
167	12.037	12.024	12.053	VV	44699	750426	9.19%	0.329%	
168	12.070	12.053	12.085	VV	43527	811415	9.93%	0.356%	
169	12.097	12.085	12.112	VV	42025	675573	8.27%	0.296%	
170	12.123	12.112	12.163	VV	41174	1128663	13.82%	0.495%	
171	12.194	12.163	12.214	VV	38357	1091421	13.36%	0.479%	
172	12.221	12.214	12.239	VV	35585	510402	6.25%	0.224%	
173	12.266	12.239	12.315	VV	52691	1946791	23.83%	0.854%	
174	12.329	12.315	12.349	VV	41149	777898	9.52%	0.341%	
175	12.373	12.349	12.387	VV	46997	931809	11.41%	0.409%	
176	12.456	12.437	12.478	VV	47224	935143	11.45%	0.410%	
177	12.495	12.478	12.531	VV	34199	1007416	12.33%	0.442%	
178	12.555	12.531	12.587	VV	40344	1141963	13.98%	0.501%	
179	12.634	12.587	12.678	VV	269851	4605520	56.38%	2.020%	
180	12.694	12.678	12.739	VV	38530	1192873	14.60%	0.523%	
181	12.751	12.739	12.761	VV	30265	395930	4.85%	0.174%	
182	12.778	12.761	12.828	VV	32431	1127547	13.80%	0.494%	
183	12.851	12.828	12.863	VV	27122	556928	6.82%	0.244%	
184	12.886	12.863	12.940	VV	38732	1498400	18.34%	0.657%	
185	12.954	12.940	12.972	VV	31400	560895	6.87%	0.246%	
186	12.993	12.972	13.009	VV	34455	651601	7.98%	0.286%	
187	13.027	13.009	13.057	VV	41689	945213	11.57%	0.415%	
188	13.078	13.057	13.106	VV	71933	1299829	15.91%	0.570%	
189	13.129	13.106	13.159	VV	36136	920077	11.26%	0.403%	
190	13.180	13.159	13.205	VV	23961	637789	7.81%	0.280%	
191	13.245	13.205	13.274	VV	191916	2930112	35.87%	1.285%	
192	13.291	13.274	13.308	VV	27458	517743	6.34%	0.227%	
193	13.315	13.308	13.395	VV	26090	1146630	14.04%	0.503%	
194	13.412	13.395	13.436	VV	20422	463905	5.68%	0.203%	

Manual IntegrationsAPPROVED

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							Instrument : FID_C	
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195	13.478	13.436	13.508	VV	31331	1036353	12.69%	0.454%
196	13.521	13.508	13.538	VV	24268	394529		
197	13.552	13.538	13.573	VV	21101	409262		
198	13.592	13.573	13.607	VV	21867	412517		
199	13.624	13.607	13.650	VV	24209	552377		
200	13.671	13.650	13.714	VV	26242	777962		
201	13.738	13.714	13.779	VV	18308	640022	7.84%	0.281%
202	13.832	13.779	13.867	VV	116381	2016692	24.69%	0.884%
203	13.889	13.867	13.905	VV	17446	354561	4.34%	0.155%
204	13.918	13.905	13.971	VV	16587	557994	6.83%	0.245%
205	13.979	13.971	14.002	VV	12691	220410	2.70%	0.097%
206	14.057	14.002	14.111	VV	19290	948354	11.61%	0.416%
207	14.124	14.111	14.146	VV	13420	255152	3.12%	0.112%
208	14.164	14.146	14.176	VV	12552	216880	2.66%	0.095%
209	14.194	14.176	14.210	VV	14261	254852	3.12%	0.112%
210	14.247	14.210	14.278	VV	14122	490944	6.01%	0.215%
211	14.306	14.278	14.353	VV	10023	413058	5.06%	0.181%
212	14.393	14.353	14.434	VV	61623	1078749	13.21%	0.473%
213	14.463	14.434	14.506	VV	9758	372209	4.56%	0.163%
214	14.521	14.506	14.573	VV	8250	286247	3.50%	0.126%
215	14.597	14.573	14.636	VV	9490	300639	3.68%	0.132%
216	14.647	14.636	14.664	VV	7687	121145	1.48%	0.053%
217	14.675	14.664	14.697	VV	7248	130196	1.59%	0.057%
218	14.712	14.697	14.728	VV	6690	112407	1.38%	0.049%
219	14.744	14.728	14.762	VV	7041	130832	1.60%	0.057%
220	14.790	14.762	14.810	VV	7497	181946	2.23%	0.080%
221	14.821	14.810	14.890	VV	5591	236902	2.90%	0.104%
222	14.934	14.890	14.968	VV	30563	525830	6.44%	0.231%
223	14.989	14.968	15.059	VV	5083	230246	2.82%	0.101%
224	15.071	15.059	15.098	VV	3577	77451	0.95%	0.034%
225	15.129	15.098	15.172	VV	4537	166957	2.04%	0.073%
226	15.184	15.172	15.228	VV	3819	110393	1.35%	0.048%
227	15.247	15.228	15.256	VV	3051	49292	0.60%	0.022%
228	15.271	15.256	15.299	VV	3437	75736	0.93%	0.033%
229	15.321	15.299	15.347	VV	3544	84763	1.04%	0.037%
230	15.369	15.347	15.419	VV	2743	100608	1.23%	0.044%
231	15.454	15.419	15.609	VV	12382	353990	4.33%	0.155%
232	15.637	15.609	15.738	VV	2023	119481	1.46%	0.052%
233	15.771	15.738	15.807	VV	1754	58122	0.71%	0.025%
234	15.819	15.807	15.865	VV	1397	41861	0.51%	0.018%
235	15.882	15.865	15.904	VV	1105	21813	0.27%	0.010%
236	15.955	15.904	15.984	VV	5573	101143	1.24%	0.044%
237	15.997	15.984	16.035	VV	1141	25832	0.32%	0.011%
238	16.051	16.035	16.078	VV	597	13352	0.16%	0.006%
239	16.084	16.078	16.097	VV	557	5176	0.06%	0.002%
240	16.128	16.097	16.158	VV	996	24169	0.30%	0.011%
241	16.167	16.158	16.178	VV	671	7358	0.09%	0.003%
242	16.190	16.178	16.223	VV	636	13361	0.16%	0.006%
243	16.272	16.223	16.303	VV	721	25275	0.31%	0.011%
244	16.319	16.303	16.374	VV	648	19036	0.23%	0.008%
245	16.401	16.374	16.410	VV	430	6409	0.08%	0.003%
246	16.439	16.410	16.528	VV	2315	47536	0.58%	0.021%

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247	16.558	16.528	16.578	VV	209	3894	0.05%	0.002%
248	16.613	16.578	16.643	VV	601	14379	0.05%	0.002%
249	16.668	16.643	16.694	VV	454	9494	0.05%	0.002%
250	16.713	16.694	16.730	VV	224	3759	0.05%	0.002%
251	16.762	16.730	16.774	VV	407	8122	0.05%	0.002%
252	16.784	16.774	16.825	VV	481	8864	0.05%	0.002%
253	16.907	16.825	17.001	VV	2268	48445	0.59%	0.021%
254	17.059	17.001	17.094	PV	418	15080	0.18%	0.007%
255	17.150	17.094	17.202	VV	299	13488	0.17%	0.006%
256	17.236	17.202	17.255	VV	222	6101	0.07%	0.003%
257	17.275	17.255	17.314	VV	158	4010	0.05%	0.002%
258	17.359	17.314	17.399	PV	2004	31598	0.39%	0.014%
259	17.404	17.399	17.432	VV	183	2185	0.03%	0.001%
260	17.496	17.432	17.539	PV	322	13248	0.16%	0.006%
261	17.548	17.539	17.598	VV	191	3743	0.05%	0.002%
262	17.626	17.598	17.642	VV	196	2808	0.03%	0.001%
263	17.655	17.642	17.686	VV	224	2476	0.03%	0.001%
264	17.708	17.686	17.724	VV	142	1923	0.02%	0.001%
265	17.741	17.724	17.763	VV	169	2124	0.03%	0.001%
266	17.794	17.763	17.838	VV	3106	42711	0.52%	0.019%
267	17.948	17.838	17.974	PV	364	9583	0.12%	0.004%
268	17.981	17.974	18.004	VV	211	1924	0.02%	0.001%
269	18.012	18.004	18.054	VV	70	668	0.01%	0.000%
270	18.074	18.054	18.085	PV	263	3116	0.04%	0.001%
271	18.092	18.085	18.101	VV	162	1133	0.01%	0.000%
272	18.116	18.101	18.125	VV	121	1345	0.02%	0.001%
273	18.275	18.263	18.293	VV	192	2729	0.03%	0.001%
274	18.313	18.293	18.325	VV	298	4115	0.05%	0.002%
275	18.346	18.325	18.388	VV	284	6663	0.08%	0.003%
276	18.395	18.388	18.408	VV	129	1270	0.02%	0.001%
277	18.425	18.408	18.450	VV	128	1675	0.02%	0.001%
278	18.490	18.450	18.557	PV	408	15640	0.19%	0.007%
279	18.754	18.725	18.778	VV	316	6595	0.08%	0.003%
280	18.799	18.778	18.816	VV	380	6671	0.08%	0.003%
281	18.890	18.816	18.977	VV	606	38120	0.47%	0.017%
282	19.137	19.097	19.151	VV	714	14344	0.18%	0.006%
283	19.205	19.151	19.219	VV	658	21243	0.26%	0.009%
284	19.238	19.219	19.254	VV	637	11761	0.14%	0.005%
285	19.278	19.254	19.295	VV	711	15264	0.19%	0.007%
286	19.315	19.295	19.334	VV	671	12958	0.16%	0.006%
287	19.456	19.446	19.500	VV	1085	31090	0.38%	0.014%
288	19.527	19.500	19.538	VV	978	20570	0.25%	0.009%
289	19.584	19.538	19.596	VV	889	30032	0.37%	0.013%
290	19.727	19.717	19.758	VV	1449	34440	0.42%	0.015%
291	19.787	19.758	19.820	VV	3440	85006	1.04%	0.037%
292	19.835	19.820	19.854	VV	1636	31093	0.38%	0.014%
293	19.869	19.854	19.881	VV	1608	25519	0.31%	0.011%
294	19.985	19.971	19.998	VV	2110	32109	0.39%	0.014%
295	20.008	19.998	20.028	VV	2002	36776	0.45%	0.016%
296	20.035	20.028	20.047	VV	2016	22139	0.27%	0.010%
297	20.065	20.047	20.075	VV	2026	32320	0.40%	0.014%
298	20.154	20.075	20.187	VV	4677	186700	2.29%	0.082%
299	20.514	20.485	20.565	VV	4191	165721	2.03%	0.073%

Instrument :

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Supervised By :mohammad ahmed 10/10/2025

300	20.969	20.958	20.984	VV	2292	35491
301	21.249	21.208	21.271	VV	1611	58601
302	21.278	21.271	21.284	VV	1437	10892
303	21.293	21.284	21.317	VV	1548	29044
304	21.584	21.569	21.594	VV	939	12776
305	21.625	21.594	21.644	VV	1025	26951
306	21.754	21.742	21.821	VV	615	20849
307	21.862	21.821	21.922	VV	813	27163
308	21.940	21.922	21.956	VV	207	3103
309	21.968	21.956	21.977	VV	153	1371
310	21.991	21.977	22.001	PBA	124	10716

Sum of corrected areas: 228026193

Aliphatic EPH 100725.M Thu Oct 09 17:02:29 2025

Instrument :
FID_C
ClientSampleId :
SOILDL
0.43% 0.016%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	09/10/25
Project:	19 Ashlynn Court	Date Received:	10/06/25
Client Sample ID:	SOILDL	SDG No.:	Q3301
Lab Sample ID:	Q3301-01DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049836.D	5	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	47.7		0.74	4.10	mg/kg
Aromatic C12-C16	Aromatic C12-C16	246	E	1.42	6.15	mg/kg
Aromatic C16-C21	Aromatic C16-C21	522	E	2.46	10.3	mg/kg
Aromatic C21-C36	Aromatic C21-C36	75.7		7.32	16.4	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	18.1		40 - 140	181%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	15.0		40 - 140	150%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	9.41		40 - 140	94%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3301-01DL	Acq On:	08 Oct 2025 14:25
Client Sample ID:	SOILDL	Operator:	YP/AJ
Data file:	FD049836.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	14260932	116.141	200	ug/ml
Aromatic C12-C16	6.138	8.765	86293606	601.942	300	ug/ml
Aromatic C16-C21	8.766	13.056	181114244	1270	500	ug/ml
Aromatic C21-C36	13.057	18.475	22838138	184.444	800	ug/ml
Aromatic EPH	4.394	18.475	304506920	2180		ug/ml
2-Bromonaphthalene (SURRE)	7.703	7.703	2154283	18.13		ug/ml
2-Fluorobiphenyl (SURRE)	8.565	8.565	1273822	15		ug/ml
ortho-Terphenyl (SURRE)	11.613	11.613	1404490	9.41		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049836.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 14:25
 Operator : YP/AJ
 Sample : Q3301-01DL 5X
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 SOIL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 06:29:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.703	2154283	18.131 ug/mlm
Spiked Amount 50.000		Recovery =	36.26%
6) S 2-Fluorobiphenyl (SURR)	8.565	1273822	15.004 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery =	30.01%
11) S ortho-Terphenyl (SURR)	11.613	1404490	9.408 ug/mlm
Spiked Amount 50.000		Recovery =	18.82%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049836.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 14:25
Operator : YP/AJ
Sample : Q3301-01DL 5X
Misc :
ALS Vial : 68 Sample Multiplier: 1

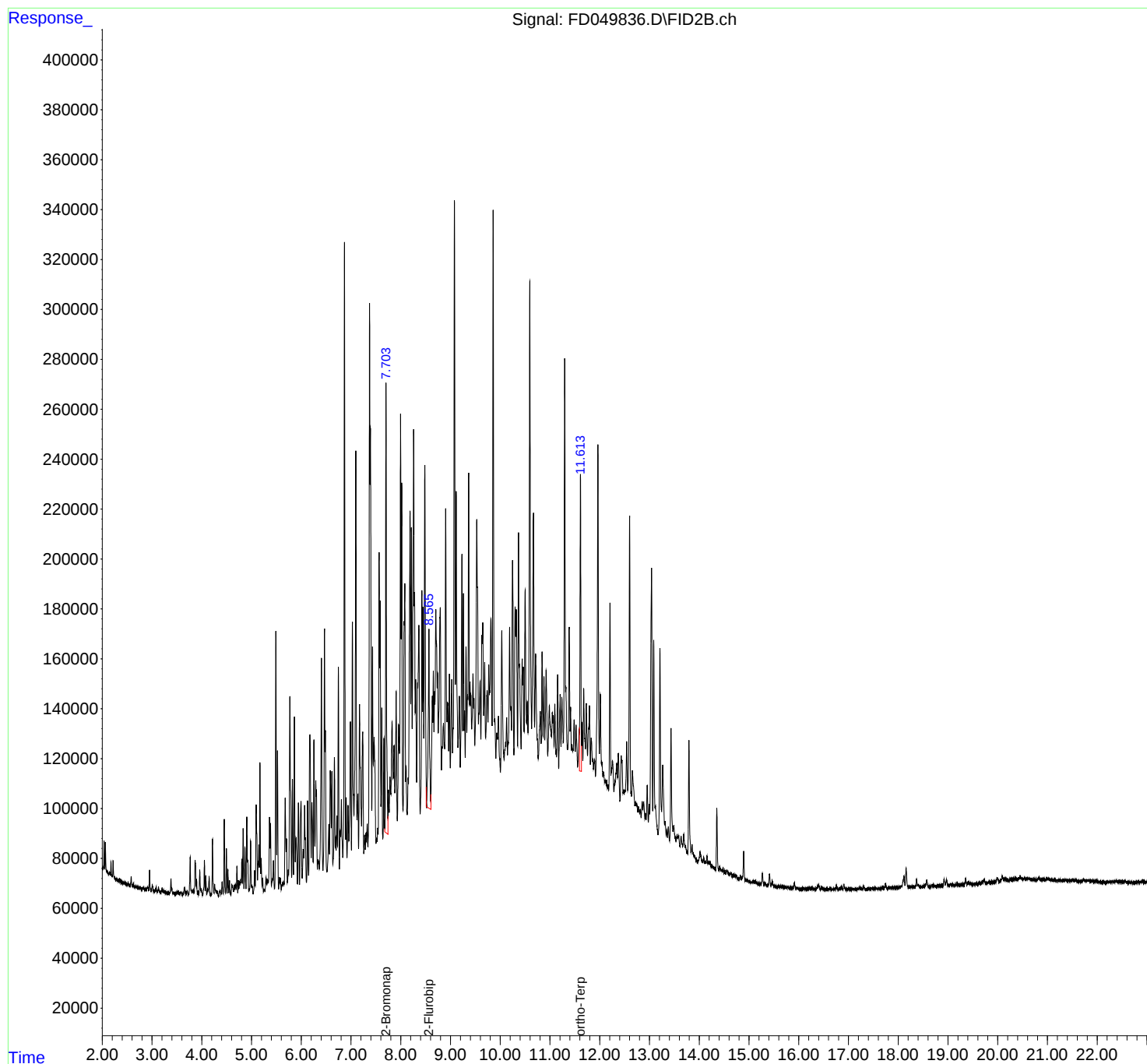
Instrument :
FID_D
ClientSampleId :
SOIL

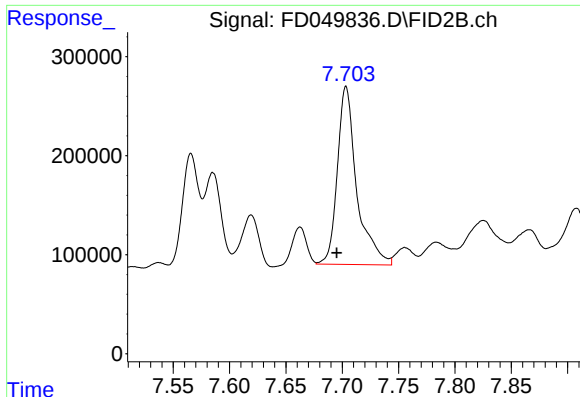
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 06:29:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





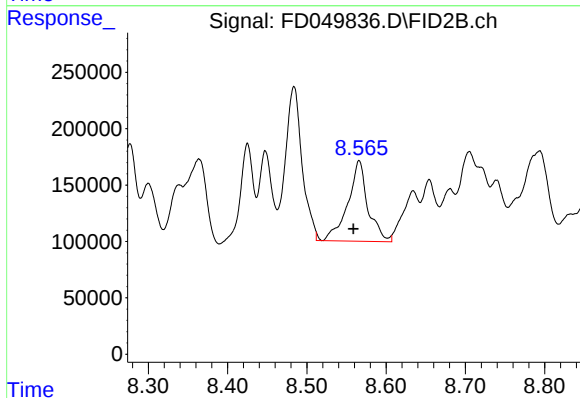
#4 2-Bromonaphthalene (SURRE)

R.T.: 7.703 min
Delta R.T.: 0.008 min
Response: 2154283
Conc: 18.13 ug/ml

Instrument :
FID_D
ClientSampleId :
SOIL

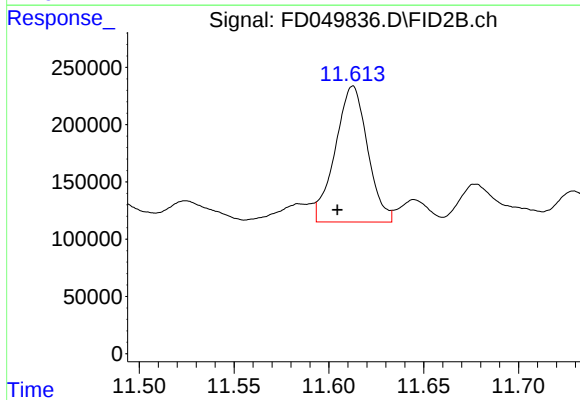
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.565 min
Delta R.T.: 0.007 min
Response: 1273822
Conc: 15.00 ug/ml m



#11 ortho-Terphenyl (SURRE)

R.T.: 11.613 min
Delta R.T.: 0.008 min
Response: 1404490
Conc: 9.41 ug/ml m

rteres

Instrument :

FID_D

ClientSampleId :

SOIL

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10082
Data File : FD049836.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 14:25
Sample : Q3301-01DL 5X
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.259	4.252	4.286	PH	3096	29947	0.57%	0.010%
2	4.295	4.286	4.309	PV	933	6359	0.12%	0.002%
3	4.317	4.309	4.339	VV	1450	9255	0.18%	0.003%
4	4.370	4.339	4.388	PV	2536	42679	0.81%	0.014%
5	4.409	4.388	4.430	VV	5761	71365	1.35%	0.023%
6	4.452	4.430	4.476	VV	30925	303101	5.74%	0.097%
7	4.495	4.476	4.511	VV	19150	170788	3.24%	0.055%
8	4.526	4.511	4.543	VV	10620	105537	2.00%	0.034%
9	4.557	4.543	4.585	VV	6321	70824	1.34%	0.023%
10	4.604	4.585	4.639	VV	4646	97701	1.85%	0.031%
11	4.653	4.639	4.666	VV	4244	51194	0.97%	0.016%
12	4.679	4.666	4.692	VV	4752	60702	1.15%	0.019%
13	4.707	4.692	4.723	VV	12027	119157	2.26%	0.038%
14	4.737	4.723	4.748	VV	6365	62619	1.19%	0.020%
15	4.763	4.748	4.773	VV	5647	73500	1.39%	0.024%
16	4.784	4.773	4.792	VV	6542	65762	1.25%	0.021%
17	4.805	4.792	4.817	VV	14886	145356	2.75%	0.047%
18	4.831	4.817	4.848	VV	27098	262537	4.97%	0.084%
19	4.868	4.848	4.888	VV	19447	245615	4.65%	0.079%
20	4.905	4.888	4.945	VV	31680	460317	8.72%	0.148%
21	4.982	4.945	5.000	VV	22139	260849	4.94%	0.084%
22	5.006	5.000	5.031	VV	4090	57488	1.09%	0.018%
23	5.062	5.031	5.074	VV	10192	120711	2.29%	0.039%
24	5.094	5.074	5.121	VV	36529	563344	10.67%	0.181%
25	5.147	5.121	5.156	VV	20442	289311	5.48%	0.093%
26	5.169	5.156	5.185	VV	53570	507549	9.61%	0.163%
27	5.194	5.185	5.212	VV	15172	163197	3.09%	0.052%
28	5.224	5.212	5.239	VV	7213	77691	1.47%	0.025%
29	5.253	5.239	5.269	VV	2564	39243	0.74%	0.013%
30	5.291	5.269	5.302	VV	7480	97206	1.84%	0.031%
31	5.313	5.302	5.326	VV	6614	82229	1.56%	0.026%
32	5.330	5.326	5.336	VV	5399	32966	0.62%	0.011%
33	5.362	5.336	5.372	VV	31497	370378	7.02%	0.119%
34	5.381	5.372	5.400	VV	29169	293130	5.55%	0.094%
35	5.420	5.400	5.425	VV	6720	82182	1.56%	0.026%
36	5.441	5.425	5.464	VV	14168	185684	3.52%	0.060%

					riteres			
37	5.489	5.464	5.506	VV	105839	1112736	21.08%	0.357%
38	5.522	5.506	5.545	VV	58090	655473	12.10%	0.357%
39	5.561	5.545	5.571	VV	7349	82507	1.10%	0.357%
40	5.580	5.571	5.597	VV	7155	80644	0.88%	0.357%
41	5.625	5.597	5.635	VV	4959	94318	0.53%	0.357%
42	5.647	5.635	5.657	VV	5571	64168	0.70%	0.357%
43	5.677	5.657	5.695	VV	39109	527025	9.98%	0.169%
44	5.703	5.695	5.721	VV	22814	231567	4.39%	0.074%
45	5.738	5.721	5.746	VV	10419	120517	2.28%	0.039%
46	5.771	5.746	5.807	VV	79882	1378493	26.11%	0.442%
47	5.824	5.807	5.844	VV	46663	533239	10.10%	0.171%
48	5.862	5.844	5.880	VV	71562	770610	14.60%	0.247%
49	5.896	5.880	5.923	VV	23128	431455	8.17%	0.138%
50	5.943	5.923	5.966	VV	37192	498959	9.45%	0.160%
51	5.995	5.966	6.018	VV	37731	696167	13.19%	0.223%
52	6.040	6.018	6.053	VV	18424	294499	5.58%	0.095%
53	6.068	6.053	6.105	VV	36119	632864	11.99%	0.203%
54	6.127	6.105	6.148	VV	37990	466458	8.84%	0.150%
55	6.173	6.148	6.200	VV	64356	1226909	23.24%	0.394%
56	6.215	6.200	6.239	VV	37151	613882	11.63%	0.197%
57	6.255	6.239	6.274	VV	62178	753340	14.27%	0.242%
58	6.293	6.274	6.300	VV	45985	545875	10.34%	0.175%
59	6.306	6.300	6.325	VV	42229	415313	7.87%	0.133%
60	6.337	6.325	6.344	VV	14239	145549	2.76%	0.047%
61	6.350	6.344	6.364	VV	13682	150514	2.85%	0.048%
62	6.406	6.364	6.437	VV	94940	1557430	29.50%	0.500%
63	6.468	6.437	6.479	VV	106829	1255889	23.79%	0.403%
64	6.485	6.479	6.519	VV	66036	706714	13.39%	0.227%
65	6.556	6.519	6.568	VV	28475	541036	10.25%	0.174%
66	6.584	6.568	6.604	VV	49912	788824	14.94%	0.253%
67	6.616	6.604	6.636	VV	49711	603044	11.42%	0.194%
68	6.667	6.636	6.683	VV	55198	819569	15.53%	0.263%
69	6.691	6.683	6.701	VV	22995	227518	4.31%	0.073%
70	6.717	6.701	6.729	VV	31839	413456	7.83%	0.133%
71	6.748	6.729	6.767	VV	91296	1070103	20.27%	0.343%
72	6.785	6.767	6.794	VV	25827	325345	6.16%	0.104%
73	6.807	6.794	6.835	VV	38311	646648	12.25%	0.208%
74	6.869	6.835	6.892	VV	261526	3037180	57.54%	0.975%
75	6.904	6.892	6.920	VV	38985	466928	8.85%	0.150%
76	6.940	6.920	6.958	VV	35960	599197	11.35%	0.192%
77	6.988	6.958	7.009	VV	69502	1231870	23.34%	0.395%
78	7.029	7.009	7.059	VV	109366	1689748	32.01%	0.542%
79	7.098	7.059	7.121	VV	178252	2886490	54.68%	0.926%
80	7.138	7.121	7.153	VV	40437	641159	12.15%	0.206%
81	7.172	7.153	7.213	VV	76293	1633421	30.94%	0.524%
82	7.236	7.213	7.258	VV	65256	1197249	22.68%	0.384%
83	7.274	7.258	7.288	VV	23788	380544	7.21%	0.122%
84	7.301	7.288	7.312	VV	24767	316461	5.99%	0.102%
85	7.326	7.312	7.340	VV	28231	406665	7.70%	0.131%
86	7.374	7.340	7.384	VV	236959	2857588	54.13%	0.917%
87	7.391	7.384	7.418	VV	186479	2399919	45.46%	0.770%
88	7.433	7.418	7.450	VV	99241	1298478	24.60%	0.417%
89	7.465	7.450	7.504	VV	63186	1510721	28.62%	0.485%

Instrument :

FID_D

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

	Concentrations				Area		
	Peak	Area	Height	Width	Height	Area	
90	7.514	7.504	7.523	VV	22547	258816	4.90% 0.083%
91	7.537	7.523	7.545	VV	26680	321419	6.00% 0.100%
92	7.566	7.545	7.576	VV	137045	1563415	29.00% 0.483%
93	7.585	7.576	7.603	VV	117662	1317491	24.00% 0.392%
94	7.619	7.603	7.639	VV	74716	1045766	19.00% 0.310%
95	7.663	7.639	7.678	VV	62545	901604	17.00% 0.277%
96	7.703	7.678	7.741	VV	204816	3079862	58.34% 0.988%
97	7.756	7.741	7.768	VV	41891	577761	10.94% 0.185%
98	7.784	7.768	7.802	VV	47153	858589	16.26% 0.276%
99	7.825	7.802	7.848	VV	69098	1543731	29.24% 0.495%
100	7.866	7.848	7.881	VV	59729	1032824	19.57% 0.331%
101	7.908	7.881	7.930	VV	81540	1584552	30.02% 0.509%
102	7.957	7.930	7.975	VV	68050	1411174	26.73% 0.453%
103	7.997	7.975	8.008	VV	192342	2421261	45.87% 0.777%
104	8.020	8.008	8.046	VV	164316	2077585	39.36% 0.667%
105	8.082	8.046	8.099	VV	124705	2621925	49.67% 0.842%
106	8.107	8.099	8.127	VV	51148	699682	13.25% 0.225%
107	8.148	8.127	8.154	VV	46702	647613	12.27% 0.208%
108	8.187	8.154	8.201	VV	153643	2854251	54.07% 0.916%
109	8.214	8.201	8.230	VV	147186	1796744	34.04% 0.577%
110	8.259	8.230	8.273	VV	186179	3295612	62.43% 1.058%
111	8.277	8.273	8.291	VV	121130	1096722	20.78% 0.352%
112	8.300	8.291	8.319	VV	86146	1200663	22.75% 0.385%
113	8.339	8.319	8.344	VV	84627	1017597	19.28% 0.327%
114	8.364	8.344	8.390	VV	107669	2163141	40.98% 0.694%
115	8.425	8.390	8.437	VV	121637	1903623	36.06% 0.611%
116	8.448	8.437	8.463	VV	115053	1414252	26.79% 0.454%
117	8.484	8.463	8.520	VV	171933	3206033	60.73% 1.029%
118	8.566	8.520	8.602	VV	106269	2942713	55.75% 0.944%
119	8.634	8.602	8.643	VV	79366	1478094	28.00% 0.474%
120	8.654	8.643	8.667	VV	89228	1131705	21.44% 0.363%
121	8.681	8.667	8.687	VV	81124	902819	17.10% 0.290%
122	8.705	8.687	8.732	VV	114149	2590872	49.08% 0.832%
123	8.739	8.732	8.754	VV	88743	1052981	19.95% 0.338%
124	8.793	8.754	8.818	VV	114643	3256598	61.69% 1.045%
125	8.858	8.818	8.883	VV	68547	2369680	44.89% 0.761%
126	8.903	8.883	8.928	VV	153921	2698965	51.13% 0.866%
127	8.942	8.928	8.963	VV	76488	1452082	27.51% 0.466%
128	8.978	8.963	8.996	VV	88337	1377787	26.10% 0.442%
129	9.026	8.996	9.041	VV	85980	1914965	36.28% 0.615%
130	9.079	9.041	9.099	VV	278145	4715193	89.32% 1.513%
131	9.114	9.099	9.149	VV	161101	3017383	57.16% 0.968%
132	9.178	9.149	9.196	VV	79222	1853318	35.11% 0.595%
133	9.230	9.196	9.246	VV	136204	2583595	48.94% 0.829%
134	9.261	9.246	9.275	VV	120346	1599197	30.29% 0.513%
135	9.283	9.275	9.296	VV	73384	827906	15.68% 0.266%
136	9.312	9.296	9.329	VV	98850	1555899	29.47% 0.499%
137	9.343	9.329	9.348	VV	79464	874982	16.58% 0.281%
138	9.366	9.348	9.383	VV	168594	2448625	46.39% 0.786%
139	9.392	9.383	9.403	VV	84908	937389	17.76% 0.301%
140	9.411	9.403	9.427	VV	79737	1077335	20.41% 0.346%
141	9.452	9.427	9.465	VV	88130	1782715	33.77% 0.572%

Instrument :

FID_D

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

rteres									
142	9.472	9.465	9.490	VV	78240	1043791	19.77%	0.335%	
143	9.528	9.490	9.562	VV	149434	4354061	82.12%	0.680%	
144	9.594	9.562	9.611	VV	84999	2180406	41.87%	0.591%	
145	9.631	9.611	9.639	VV	103409	1486541	28.51%	0.805%	
146	9.650	9.639	9.668	VV	108606	1618455	30.12%	0.680%	
147	9.688	9.668	9.705	VV	92396	1754584	33.87%	0.591%	
148	9.737	9.705	9.754	VV	81257	2117801	40.12%	0.680%	
149	9.770	9.754	9.791	VV	91390	1840874	34.87%	0.591%	
150	9.813	9.791	9.836	VV	110069	2507856	47.51%	0.805%	
151	9.858	9.836	9.886	VV	273458	4287968	81.23%	1.376%	
152	9.892	9.886	9.912	VV	69899	993157	18.81%	0.319%	
153	9.930	9.912	9.947	VV	64361	1257630	23.82%	0.404%	
154	9.965	9.947	10.003	VV	71101	2061502	39.05%	0.662%	
155	10.031	10.003	10.079	VV	105364	3168945	60.03%	1.017%	
156	10.107	10.079	10.114	VV	60580	1212684	22.97%	0.389%	
157	10.130	10.114	10.147	VV	70160	1257313	23.82%	0.404%	
158	10.189	10.147	10.207	VV	106651	2728896	51.70%	0.876%	
159	10.212	10.207	10.226	VV	74793	826447	15.66%	0.265%	
160	10.248	10.226	10.275	VV	133377	2822190	53.46%	0.906%	
161	10.300	10.275	10.312	VV	114649	2044587	38.73%	0.656%	
162	10.324	10.312	10.349	VV	113540	2078058	39.37%	0.667%	
163	10.368	10.349	10.420	VV	144481	3785237	71.71%	1.215%	
164	10.441	10.420	10.453	VV	93960	1554163	29.44%	0.499%	
165	10.463	10.453	10.479	VV	90665	1314175	24.90%	0.422%	
166	10.501	10.479	10.532	VV	121755	2783902	52.74%	0.893%	
167	10.544	10.532	10.558	VV	76783	1118066	21.18%	0.359%	
168	10.594	10.558	10.632	VV	244239	5278791	100.00%	1.694%	
169	10.667	10.632	10.691	VV	151997	3569915	67.63%	1.146%	
170	10.712	10.691	10.766	VV	95822	3236908	61.32%	1.039%	
171	10.805	10.766	10.823	VV	72830	2195611	41.59%	0.705%	
172	10.842	10.823	10.860	VV	96553	1726376	32.70%	0.554%	
173	10.879	10.860	10.896	VV	86648	1566495	29.68%	0.503%	
174	10.923	10.896	10.955	VV	89233	2580745	48.89%	0.828%	
175	10.987	10.955	11.029	VV	74982	2907545	55.08%	0.933%	
176	11.048	11.029	11.057	VV	72425	1171418	22.19%	0.376%	
177	11.067	11.057	11.082	VV	70934	975386	18.48%	0.313%	
178	11.098	11.082	11.130	VV	75488	1845773	34.97%	0.592%	
179	11.154	11.130	11.175	VV	87361	1834512	34.75%	0.589%	
180	11.205	11.175	11.222	VV	79384	1852897	35.10%	0.595%	
181	11.239	11.222	11.268	VV	78342	1937270	36.70%	0.622%	
182	11.295	11.268	11.314	VV	213894	3308985	62.68%	1.062%	
183	11.319	11.314	11.352	VV	82320	1585705	30.04%	0.509%	
184	11.386	11.352	11.404	VV	106672	2427844	45.99%	0.779%	
185	11.414	11.404	11.432	VV	73927	1102079	20.88%	0.354%	
186	11.439	11.432	11.457	VV	59453	872002	16.52%	0.280%	
187	11.485	11.457	11.509	VV	69132	1917364	36.32%	0.615%	
188	11.525	11.509	11.556	VV	67254	1687680	31.97%	0.542%	
189	11.613	11.556	11.634	VV	167537	3901259	73.90%	1.252%	
190	11.645	11.634	11.660	VV	68274	980972	18.58%	0.315%	
191	11.677	11.660	11.714	VV	81688	2122236	40.20%	0.681%	
192	11.729	11.714	11.755	VV	75773	1603071	30.37%	0.515%	
193	11.793	11.755	11.811	VV	74895	2163479	40.98%	0.694%	
194	11.828	11.811	11.854	VV	61957	1465204	27.76%	0.470%	

Instrument :

FID_D

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

							Instrument : FID_D	
							ClientSampleId : SOIL	
195	11.862	11.854	11.874	VV	53416	633093	11.99%	0.203%
196	11.895	11.874	11.914	VV	53221	1235370	Manual IntegrationsAPPROVED	
197	11.963	11.914	11.993	VV	179567	4197932		
198	12.012	11.993	12.038	VV	79404	1722226		
199	12.044	12.038	12.064	VV	52304	765724		
200	12.075	12.064	12.097	VV	48302	935100		
201	12.117	12.097	12.131	VV	44835	901002	17.07%	0.289%
202	12.142	12.131	12.155	VV	45125	635304	12.04%	0.204%
203	12.167	12.155	12.179	VV	42866	613303	11.62%	0.197%
204	12.206	12.179	12.226	VV	115889	1977962	37.47%	0.635%
205	12.257	12.226	12.285	VV	52632	1711064	32.41%	0.549%
206	12.339	12.285	12.355	VV	51590	1955758	37.05%	0.628%
207	12.373	12.355	12.409	VV	55550	1505406	28.52%	0.483%
208	12.432	12.409	12.441	VV	54672	930029	17.62%	0.298%
209	12.447	12.441	12.470	VV	52767	820993	15.55%	0.263%
210	12.480	12.470	12.492	VV	40855	519148	9.83%	0.167%
211	12.542	12.492	12.562	VV	60187	1942813	36.80%	0.624%
212	12.600	12.562	12.639	VV	150750	3191795	60.46%	1.024%
213	12.657	12.639	12.708	VV	48643	1710899	32.41%	0.549%
214	12.719	12.708	12.732	VV	36008	511671	9.69%	0.164%
215	12.743	12.732	12.765	VV	35627	682796	12.93%	0.219%
216	12.779	12.765	12.801	VV	34147	717773	13.60%	0.230%
217	12.815	12.801	12.834	VV	32931	611257	11.58%	0.196%
218	12.853	12.834	12.865	VV	36351	641080	12.14%	0.206%
219	12.883	12.865	12.909	VV	35979	871201	16.50%	0.280%
220	12.919	12.909	12.933	VV	31270	440803	8.35%	0.141%
221	12.954	12.933	12.977	VV	42721	920750	17.44%	0.296%
222	12.994	12.977	13.005	VV	35061	535514	10.14%	0.172%
223	13.042	13.005	13.065	VV	129529	2817312	53.37%	0.904%
224	13.086	13.065	13.112	VV	100889	1683625	31.89%	0.540%
225	13.121	13.112	13.172	VV	34414	1027923	19.47%	0.330%
226	13.211	13.172	13.244	VV	97683	2039232	38.63%	0.654%
227	13.266	13.244	13.304	VV	50879	1384920	26.24%	0.444%
228	13.315	13.304	13.336	VV	28181	498451	9.44%	0.160%
229	13.349	13.336	13.363	VV	24907	380139	7.20%	0.122%
230	13.380	13.363	13.403	VV	26003	561771	10.64%	0.180%
231	13.433	13.403	13.475	VV	65456	1516449	28.73%	0.487%
232	13.490	13.475	13.535	VV	26671	836270	15.84%	0.268%
233	13.555	13.535	13.572	VV	22422	479332	9.08%	0.154%
234	13.585	13.572	13.613	VV	22299	506070	9.59%	0.162%
235	13.636	13.613	13.669	VV	22140	668797	12.67%	0.215%
236	13.688	13.669	13.755	VV	23006	962478	18.23%	0.309%
237	13.760	13.755	13.764	VV	15650	79119	1.50%	0.025%
238	13.794	13.764	13.835	VV	60470	1249233	23.67%	0.401%
239	13.857	13.835	13.900	VV	18671	628988	11.92%	0.202%
240	13.905	13.900	13.937	VV	14190	293996	5.57%	0.094%
241	13.949	13.937	13.967	VV	12837	224293	4.25%	0.072%
242	14.014	13.967	14.018	VV	15355	404947	7.67%	0.130%
243	14.022	14.018	14.074	VV	15337	432808	8.20%	0.139%
244	14.088	14.074	14.113	VV	13396	287877	5.45%	0.092%
245	14.127	14.113	14.139	VV	12117	187398	3.55%	0.060%
246	14.156	14.139	14.194	VV	14033	394910	7.48%	0.127%

rteres									
247	14.206	14.194	14.238	VV	11819	296091	5.61%	0.095%	
248	14.254	14.238	14.272	VV	10308	205910			
249	14.277	14.272	14.297	VV	9938	143081			
250	14.308	14.297	14.328	VV	9631	171015			
251	14.354	14.328	14.389	VV	33209	606961	11.11%	0.048%	
252	14.412	14.389	14.434	VV	9815	244393			
253	14.447	14.434	14.464	VV	8574	149917	2.84%	0.048%	
254	14.480	14.464	14.499	VV	9197	174411	3.30%	0.056%	
255	14.515	14.499	14.532	VV	8359	148511	2.81%	0.048%	
256	14.556	14.532	14.596	VV	8405	288900	5.47%	0.093%	
257	14.603	14.596	14.619	VV	6859	93758	1.78%	0.030%	
258	14.635	14.619	14.661	VV	7258	168317	3.19%	0.054%	
259	14.674	14.661	14.690	VV	6685	107888	2.04%	0.035%	
260	14.706	14.690	14.723	VV	6406	118133	2.24%	0.038%	
261	14.747	14.723	14.769	VV	6277	158963	3.01%	0.051%	
262	14.781	14.769	14.803	VV	5167	102482	1.94%	0.033%	
263	14.826	14.803	14.846	VV	6113	133788	2.53%	0.043%	
264	14.893	14.846	14.929	VV	15959	366982	6.95%	0.118%	
265	14.934	14.929	14.938	VV	4335	22829	0.43%	0.007%	
266	14.943	14.938	14.959	VV	4479	53650	1.02%	0.017%	
267	14.976	14.959	15.017	VV	4396	135189	2.56%	0.043%	
268	15.031	15.017	15.063	VV	3529	92978	1.76%	0.030%	
269	15.080	15.063	15.105	VV	3865	92151	1.75%	0.030%	
270	15.135	15.105	15.188	VV	3701	157148	2.98%	0.050%	
271	15.207	15.188	15.217	VV	2781	46711	0.88%	0.015%	
272	15.229	15.217	15.237	VV	3032	34698	0.66%	0.011%	
273	15.269	15.237	15.301	VV	7003	156670	2.97%	0.050%	
274	15.318	15.301	15.354	VV	2938	82291	1.56%	0.026%	
275	15.361	15.354	15.379	VV	2193	30414	0.58%	0.010%	
276	15.412	15.379	15.449	VV	6668	148431	2.81%	0.048%	
277	15.470	15.449	15.528	VV	3706	108459	2.05%	0.035%	
278	15.538	15.528	15.567	VV	1697	35377	0.67%	0.011%	
279	15.598	15.567	15.614	VV	1743	44265	0.84%	0.014%	
280	15.633	15.614	15.665	VV	1685	47696	0.90%	0.015%	
281	15.674	15.665	15.686	VV	1437	16931	0.32%	0.005%	
282	15.691	15.686	15.697	VV	1365	8428	0.16%	0.003%	
283	15.702	15.697	15.718	VV	1335	15730	0.30%	0.005%	
284	15.727	15.718	15.747	VV	1401	22371	0.42%	0.007%	
285	15.752	15.747	15.767	VV	1186	13110	0.25%	0.004%	
286	15.779	15.767	15.819	VV	1343	35175	0.67%	0.011%	
287	15.840	15.819	15.866	VV	1277	29815	0.56%	0.010%	
288	15.872	15.866	15.891	VV	1089	14346	0.27%	0.005%	
289	15.912	15.891	15.940	VV	3043	51607	0.98%	0.017%	
290	15.956	15.940	15.965	VV	1039	12453	0.24%	0.004%	
291	15.974	15.965	15.997	VV	881	13442	0.25%	0.004%	
292	16.009	15.997	16.017	VV	679	6835	0.13%	0.002%	
293	16.026	16.017	16.034	VV	615	5011	0.09%	0.002%	
294	16.042	16.034	16.053	VV	833	6322	0.12%	0.002%	
295	16.059	16.053	16.067	VV	627	4820	0.09%	0.002%	
296	16.071	16.067	16.073	VV	541	1820	0.03%	0.001%	
297	16.082	16.073	16.089	VV	685	5739	0.11%	0.002%	
298	16.092	16.089	16.126	VV	705	12691	0.24%	0.004%	
299	16.139	16.126	16.147	VV	610	6465	0.12%	0.002%	

Instrument :

FID_D

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SOIL

Manual IntegrationsAPPROVED

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300	16.156	16.147	16.166	VV	582	6140	0.12%	0.002%
301	16.174	16.166	16.186	VV	569	6022		
302	16.192	16.186	16.196	VV	582	3329		
303	16.203	16.196	16.217	VV	689	7684		
304	16.221	16.217	16.230	VV	714	4982		
305	16.240	16.230	16.250	VV	743	7510		
306	16.259	16.250	16.264	VV	714	5007	0.09%	0.002%
307	16.274	16.264	16.307	VV	966	17060	0.32%	0.005%
308	16.320	16.307	16.327	VV	533	5450	0.10%	0.002%
309	16.343	16.327	16.356	VV	585	7236	0.14%	0.002%
310	16.377	16.356	16.382	VV	1591	16656	0.32%	0.005%
311	16.402	16.382	16.436	VV	2073	40307	0.76%	0.013%
312	16.452	16.436	16.464	VV	947	11606	0.22%	0.004%
313	16.473	16.464	16.503	VV	924	13022	0.25%	0.004%
314	16.515	16.503	16.525	VV	382	2831	0.05%	0.001%
315	16.529	16.525	16.540	VV	337	1997	0.04%	0.001%
316	16.570	16.540	16.600	VV	613	14884	0.28%	0.005%
317	16.606	16.600	16.619	VV	530	5087	0.10%	0.002%
318	16.642	16.619	16.672	VV	460	10035	0.19%	0.003%
319	16.680	16.672	16.690	VV	301	2768	0.05%	0.001%
320	16.756	16.690	16.795	VV	2021	38577	0.73%	0.012%
321	16.821	16.795	16.833	VV	538	6877	0.13%	0.002%
322	16.858	16.833	16.881	VV	1337	22238	0.42%	0.007%
323	16.910	16.881	16.967	VV	2367	35478	0.67%	0.011%
324	16.988	16.980	16.992	VV	265	1628	0.03%	0.001%
325	17.007	16.992	17.032	VV	337	6450	0.12%	0.002%
326	17.041	17.032	17.045	VV	343	1685	0.03%	0.001%
327	17.051	17.045	17.057	VV	218	1494	0.03%	0.000%
328	17.071	17.057	17.076	VV	297	2063	0.04%	0.001%
329	17.092	17.076	17.130	VV	269	5485	0.10%	0.002%
330	17.134	17.130	17.150	VV	197	1642	0.03%	0.001%
331	17.157	17.150	17.174	VV	219	2225	0.04%	0.001%
332	17.219	17.174	17.239	VV	778	15435	0.29%	0.005%
333	17.241	17.239	17.254	VV	482	2605	0.05%	0.001%
334	17.267	17.254	17.279	VV	445	4538	0.09%	0.001%
335	17.307	17.279	17.336	VV	1384	21566	0.41%	0.007%
336	17.355	17.344	17.384	VV	248	3070	0.06%	0.001%
337	17.413	17.384	17.425	VV	450	6953	0.13%	0.002%
338	17.429	17.425	17.446	VV	410	4046	0.08%	0.001%
339	17.477	17.446	17.503	VV	569	12027	0.23%	0.004%
340	17.509	17.503	17.515	VV	424	2431	0.05%	0.001%
341	17.532	17.515	17.580	VV	471	13046	0.25%	0.004%
342	17.584	17.580	17.597	VV	433	2696	0.05%	0.001%
343	17.613	17.597	17.629	VV	449	5242	0.10%	0.002%
344	17.685	17.634	17.691	PV	477	12274	0.23%	0.004%
345	17.697	17.691	17.715	VV	622	7388	0.14%	0.002%
346	17.743	17.715	17.765	VV	2288	35321	0.67%	0.011%
347	17.770	17.765	17.799	VV	376	6152	0.12%	0.002%
348	17.819	17.799	17.830	VV	580	7862	0.15%	0.003%
349	17.834	17.830	17.852	VV	659	5557	0.11%	0.002%
350	17.865	17.852	17.877	VV	432	5119	0.10%	0.002%
351	17.886	17.877	17.922	VV	573	11472	0.22%	0.004%

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					rters			
352	17.929	17.922	17.944	VV	512	4982	0.09%	0.002%
353	17.950	17.944	17.957	VV	564	2663		
354	17.970	17.957	17.982	VV	473	5222		
355	17.987	17.982	17.997	VV	391	2747		
356	18.031	17.997	18.035	VV	622	11066		
357	18.039	18.035	18.050	VV	647	4744		
358	18.066	18.050	18.075	VV	861	10426	0.20%	0.003%
359	18.115	18.075	18.136	VV	4641	98158	1.86%	0.032%
360	18.159	18.136	18.210	VV	7948	128092	2.43%	0.041%
361	18.217	18.210	18.222	VV	430	2644	0.05%	0.001%
362	18.232	18.222	18.247	VV	452	4491	0.09%	0.001%
363	18.259	18.247	18.266	VV	451	4051	0.08%	0.001%
364	18.270	18.266	18.276	VV	315	1579	0.03%	0.001%
365	18.289	18.276	18.312	VV	585	7558	0.14%	0.002%
366	18.322	18.312	18.332	VV	346	3185	0.06%	0.001%
367	18.368	18.332	18.471	VV	3104	65680	1.24%	0.021%
Sum of corrected areas:					311576285			

Instrument :
FID_D
ClientSampleId :
SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Aromatic EPH 100225.M Thu Oct 09 07:18:06 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	09/10/25
Project:	19 Ashlynn Court	Date Received:	10/06/25
Client Sample ID:	SOILDL2	SDG No.:	Q3301
Lab Sample ID:	Q3301-01DL2	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069968.D	100	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	333		17.2	123	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	965		13.5	82.1	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	1010		16.0	123	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	176		65.2	164	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	145	U	145	246	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.82		40 - 140	164%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.68		40 - 140	136%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3301-01DL2	Acq On:	08 Oct 2025 15:51
Client Sample ID:	SOILDL2	Operator:	YP/AJ
Data file:	FC069968.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	100	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	5888524	40.671	300	ug/ml
Aliphatic C12-C16	6.579	9.979	19280189	117.718	200	ug/ml
Aliphatic C16-C21	9.980	13.346	19938802	123.12	300	ug/ml
Aliphatic C21-C28	13.347	17.010	3159266	21.471	400	ug/ml
Aliphatic C28-C40	17.011	21.966	450123	4.183	600	ug/ml
Aliphatic EPH	3.284	21.966	48716904	307.164		ug/ml
ortho-Terphenyl (SURR)	11.614	11.614	120179	0.68		ug/ml
1-chlorooctadecane (SURR)	13.077	13.077	110927	0.82		ug/ml
Aliphatic C9-C28	3.284	17.010	48266781	302.98	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069968.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 15:51
 Operator : YP/AJ
 Sample : Q3301-01DL2 100X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 SOILDL2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 05:52:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.614	120179	0.684 ug/mlm
Spiked Amount 50.000		Recovery =	1.37%
12) S 1-chlorooctadecane (S...	13.077	110927	0.817 ug/ml
Spiked Amount 50.000		Recovery =	1.63%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069968.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 15:51
Operator : YP/AJ
Sample : Q3301-01DL2 100X
Misc :
ALS Vial : 19 Sample Multiplier: 1

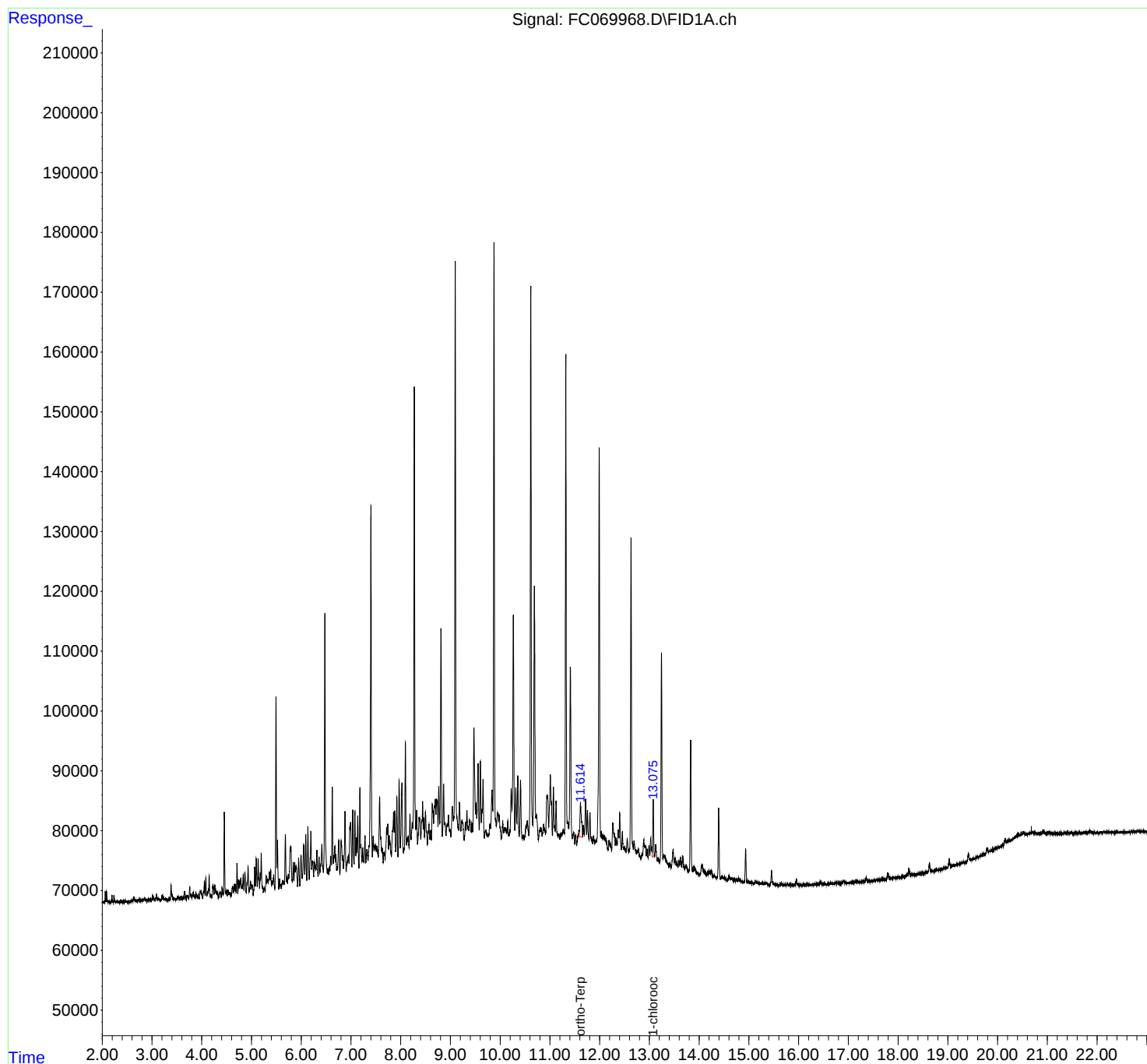
Instrument :
FID_C
ClientSampleId :
SOILDL2

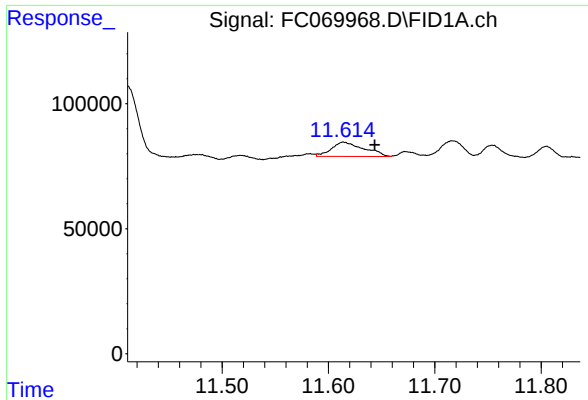
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 05:52:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





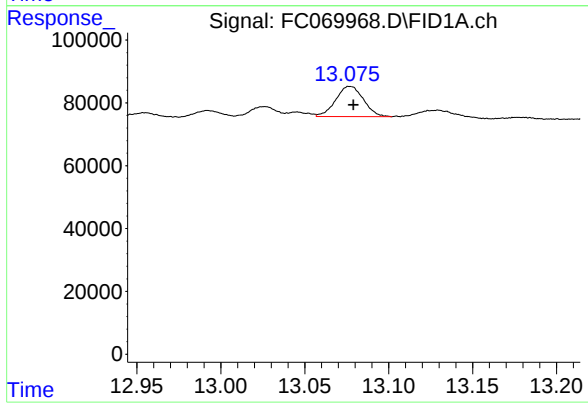
#9 ortho-Terphenyl (SURR)

R.T.: 11.614 min
Delta R.T.: -0.030 min
Response: 120179
Conc: 0.68 ug/ml

Instrument :
FID_C
ClientSampleId :
SOILDL2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.077 min
Delta R.T.: -0.002 min
Response: 110927
Conc: 0.82 ug/ml

rteres

Instrument :

FID_C

ClientSampleId :

SOILDL2

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10092
Data File : FC069968.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 15:51
Sample : Q3301-01DL2 100X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.232	3.204	3.265	BV	-106	-5444	-0.25%	-0.011%
2	3.281	3.265	3.318	PV	143	1087	0.05%	0.002%
3	3.385	3.318	3.468	PV	2446	35792	1.64%	0.073%
4	3.513	3.468	3.570	PV	441	13028	0.60%	0.027%
5	3.586	3.570	3.611	VV	500	7002	0.32%	0.014%
6	3.655	3.611	3.684	VV	1319	25650	1.18%	0.052%
7	3.708	3.684	3.734	VV	718	13375	0.61%	0.027%
8	3.758	3.734	3.801	VV	1957	33275	1.53%	0.068%
9	3.829	3.801	3.863	VV	1167	25567	1.17%	0.052%
10	3.882	3.863	3.946	VV	1192	28317	1.30%	0.058%
11	3.977	3.946	4.017	VV	1230	35841	1.64%	0.073%
12	4.082	4.017	4.103	VV	3503	79387	3.64%	0.162%
13	4.149	4.103	4.198	VV	3824	70210	3.22%	0.143%
14	4.227	4.198	4.247	VV	1774	39340	1.80%	0.080%
15	4.263	4.247	4.341	VV	2162	61573	2.82%	0.126%
16	4.369	4.341	4.389	VV	1170	22084	1.01%	0.045%
17	4.412	4.389	4.431	VV	1703	26810	1.23%	0.055%
18	4.454	4.431	4.512	VV	14493	169906	7.79%	0.347%
19	4.528	4.512	4.589	VV	1440	41869	1.92%	0.085%
20	4.620	4.589	4.641	VV	1986	40760	1.87%	0.083%
21	4.709	4.641	4.772	VV	5841	177892	8.16%	0.363%
22	4.786	4.772	4.818	VV	3273	64629	2.96%	0.132%
23	4.832	4.818	4.849	VV	3801	50114	2.30%	0.102%
24	4.868	4.849	4.892	VV	4283	68366	3.13%	0.140%
25	4.930	4.892	4.953	VV	5230	95554	4.38%	0.195%
26	4.981	4.953	5.034	VV	2751	89235	4.09%	0.182%
27	5.096	5.034	5.118	VV	6541	157674	7.23%	0.322%
28	5.134	5.118	5.161	VV	6493	98497	4.52%	0.201%
29	5.196	5.161	5.271	VV	7350	175143	8.03%	0.357%
30	5.384	5.271	5.426	VV	4671	277851	12.74%	0.567%
31	5.444	5.426	5.464	VV	3808	62656	2.87%	0.128%
32	5.493	5.464	5.549	VV	32922	487034	22.33%	0.994%
33	5.565	5.549	5.600	VV	3109	65949	3.02%	0.135%
34	5.629	5.600	5.661	VV	2741	87841	4.03%	0.179%
35	5.681	5.661	5.721	VV	10511	178508	8.18%	0.364%
36	5.785	5.721	5.820	VV	7644	291199	13.35%	0.594%

rteres									
37	5.841	5.820	5.926	VV	5845	268491	12.31%	0.548%	
38	5.948	5.926	5.972	VV	6361	105353			
39	5.996	5.972	6.021	VV	6841	132076			
40	6.049	6.021	6.070	VV	8632	172771			
41	6.091	6.070	6.113	VV	10480	155755			
42	6.135	6.113	6.160	VV	11692	175513			
43	6.194	6.160	6.250	VV	11008	321462	14.74%	0.656%	
44	6.269	6.250	6.298	VV	5640	139981	6.42%	0.286%	
45	6.316	6.298	6.338	VV	7668	134449	6.16%	0.274%	
46	6.358	6.338	6.378	VV	6619	117412	5.38%	0.240%	
47	6.414	6.378	6.443	VV	8674	228890	10.49%	0.467%	
48	6.476	6.443	6.553	VV	46807	738443	33.85%	1.507%	
49	6.625	6.553	6.648	VV	18293	416494	19.09%	0.850%	
50	6.674	6.648	6.718	VV	8308	271549	12.45%	0.554%	
51	6.754	6.718	6.778	VV	9306	224639	10.30%	0.458%	
52	6.805	6.778	6.849	VV	9026	287870	13.20%	0.588%	
53	6.881	6.849	6.907	VV	14203	269292	12.35%	0.550%	
54	6.990	6.907	7.017	VV	12226	503711	23.09%	1.028%	
55	7.037	7.017	7.060	VV	14144	231515	10.61%	0.473%	
56	7.080	7.060	7.099	VV	14042	224402	10.29%	0.458%	
57	7.137	7.099	7.161	VV	13382	318148	14.59%	0.649%	
58	7.180	7.161	7.221	VV	17812	345446	15.84%	0.705%	
59	7.237	7.221	7.264	VV	7851	168680	7.73%	0.344%	
60	7.282	7.264	7.301	VV	10011	164090	7.52%	0.335%	
61	7.323	7.301	7.343	VV	7642	168246	7.71%	0.343%	
62	7.448	7.431	7.468	VV	9698	182524	8.37%	0.373%	
63	7.492	7.468	7.546	VV	8374	364754	16.72%	0.744%	
64	7.577	7.546	7.648	VV	16359	569243	26.10%	1.162%	
65	7.667	7.648	7.688	VV	7049	155981	7.15%	0.318%	
66	7.738	7.688	7.810	VV	11710	662252	30.36%	1.352%	
67	7.879	7.810	7.900	VV	13926	573387	26.29%	1.170%	
68	7.922	7.900	7.944	VV	16251	281228	12.89%	0.574%	
69	7.969	7.944	7.993	VV	19054	343910	15.77%	0.702%	
70	8.022	7.993	8.054	VV	18390	446419	20.47%	0.911%	
71	8.187	8.168	8.208	VV	13343	251684	11.54%	0.514%	
72	8.375	8.341	8.404	VV	12670	414669	19.01%	0.846%	
73	8.440	8.404	8.478	VV	15536	535074	24.53%	1.092%	
74	8.498	8.478	8.536	VV	13665	380823	17.46%	0.777%	
75	8.566	8.536	8.614	VV	11683	468700	21.49%	0.957%	
76	8.638	8.614	8.661	VV	14396	362998	16.64%	0.741%	
77	8.693	8.661	8.749	VV	15798	754411	34.59%	1.540%	
78	8.765	8.749	8.783	VV	17810	300258	13.77%	0.613%	
79	8.863	8.838	8.910	VV	18213	549119	25.17%	1.121%	
80	8.959	8.910	9.008	VV	13041	652111	29.90%	1.331%	
81	9.038	9.008	9.061	VV	14471	396938	18.20%	0.810%	
82	9.096	9.061	9.164	VV	105061	1753509	80.39%	3.579%	
83	9.182	9.164	9.209	VV	15174	338151	15.50%	0.690%	
84	9.234	9.209	9.274	VV	12153	435783	19.98%	0.889%	
85	9.331	9.274	9.365	VV	13720	607588	27.86%	1.240%	
86	9.387	9.365	9.414	VV	12057	330783	15.17%	0.675%	
87	9.430	9.414	9.448	VV	11646	223819	10.26%	0.457%	
88	9.474	9.448	9.530	VV	27331	837231	38.38%	1.709%	
89	9.555	9.530	9.579	VV	21493	469827	21.54%	0.959%	

Instrument :

FID_C

ClientSampleId :

SOILDL2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

						Instrument : FID_C ClientSampleId : SOILDL2		
rteres						19.40%	0.864%	
90	9.602	9.579	9.624	VV	22080	423123	Manual IntegrationsAPPROVED	
91	9.655	9.624	9.684	VV	18928	490494	Reviewed By :Yogesh Patel 10/09/2025 Supervised By :mohammad ahmed 10/10/2025	
92	9.713	9.684	9.754	VV	10439	417308		
93	9.951	9.923	10.025	VV	13235	712008		
94	10.052	10.025	10.071	VV	11846	289021		
95	10.107	10.071	10.138	VV	10782	416727		
96	10.152	10.138	10.174	VV	11786	233943	10.73%	0.477%
97	10.265	10.174	10.294	VV	46404	1325113	60.75%	2.705%
98	10.315	10.294	10.334	VV	17333	324668	14.88%	0.663%
99	10.354	10.334	10.382	VV	19463	411346	18.86%	0.840%
100	10.410	10.382	10.482	VV	18708	676071	31.00%	1.380%
101	10.547	10.482	10.578	VV	11816	593754	27.22%	1.212%
102	10.808	10.769	10.846	VV	10560	460614	21.12%	0.940%
103	10.871	10.846	10.911	VV	11133	402273	18.44%	0.821%
104	10.946	10.911	10.975	VV	15572	523238	23.99%	1.068%
105	11.009	10.975	11.050	VV	19480	648045	29.71%	1.323%
106	11.071	11.050	11.101	VV	17379	382442	17.53%	0.781%
107	11.123	11.101	11.199	VV	14920	614342	28.17%	1.254%
108	11.319	11.199	11.381	VV	89413	1983877	90.95%	4.049%
109	11.476	11.454	11.499	VV	9729	242512	11.12%	0.495%
110	11.517	11.499	11.538	VV	9380	199840	9.16%	0.408%
111	11.616	11.538	11.659	VV	14595	772723	35.43%	1.577%
112	11.675	11.659	11.694	VV	10730	211490	9.70%	0.432%
113	11.717	11.694	11.738	VV	15174	322378	14.78%	0.658%
114	11.754	11.738	11.784	VV	13370	298221	13.67%	0.609%
115	11.805	11.784	11.856	VV	12929	412704	18.92%	0.842%
116	11.878	11.856	11.904	VV	8885	240447	11.02%	0.491%
117	11.990	11.904	12.168	VV	74385	2181223	100.00%	4.452%
118	12.190	12.168	12.237	VV	8235	312713	14.34%	0.638%
119	12.266	12.237	12.314	VV	11141	419369	19.23%	0.856%
120	12.330	12.314	12.348	VV	8618	162957	7.47%	0.333%
121	12.403	12.348	12.434	VV	12801	475991	21.82%	0.971%
122	12.456	12.434	12.531	VV	9693	425813	19.52%	0.869%
123	12.555	12.531	12.588	VV	8499	244779	11.22%	0.500%
124	12.631	12.588	12.764	VV	58647	1327375	60.85%	2.709%
125	12.777	12.764	12.831	VV	6736	235516	10.80%	0.481%
126	12.887	12.831	12.939	VV	8277	422159	19.35%	0.862%
127	12.954	12.939	12.974	VV	6671	126463	5.80%	0.258%
128	13.026	12.974	13.058	VV	8594	335580	15.38%	0.685%
129	13.077	13.058	13.108	VV	15003	272133	12.48%	0.555%
130	13.128	13.108	13.163	VV	7345	199794	9.16%	0.408%
131	13.178	13.163	13.204	VV	5100	118391	5.43%	0.242%
132	13.243	13.204	13.274	VV	39412	624187	28.62%	1.274%
133	13.290	13.274	13.394	VV	5688	340703	15.62%	0.695%
134	13.411	13.394	13.436	VV	4306	97504	4.47%	0.199%
135	13.477	13.436	13.574	VV	6409	382858	17.55%	0.781%
136	13.624	13.574	13.647	VV	5073	189183	8.67%	0.386%
137	13.670	13.647	13.706	VV	5329	149661	6.86%	0.305%
138	13.740	13.706	13.784	VV	3737	155498	7.13%	0.317%
139	13.830	13.784	13.871	VV	24800	419061	19.21%	0.855%
140	13.889	13.871	14.000	VV	3479	216712	9.94%	0.442%
141	14.059	14.000	14.146	VV	3780	243244	11.15%	0.496%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

rteres									
142	14.196	14.146	14.234	VV	2795	128626	5.90%	0.263%	
143	14.245	14.234	14.281	VV	2861	64932			
144	14.302	14.281	14.348	VV	1968	72981			
145	14.393	14.348	14.431	VV	13175	222744	10.27%	0.124%	
146	14.461	14.431	14.504	VV	1962	73367	3.44%	0.153%	
147	14.517	14.504	14.571	VV	1633	54610	2.79%	0.124%	
148	14.600	14.571	14.638	VV	1895	60767	3.15%	0.140%	
149	14.650	14.638	14.728	VV	1536	68635	1.32%	0.059%	
150	14.746	14.728	14.768	VV	1341	28817			
151	14.790	14.768	14.892	VV	1423	75109	3.44%	0.153%	
152	14.934	14.892	14.971	VV	6372	105660	4.84%	0.216%	
153	14.991	14.971	15.108	VV	920	55975	2.57%	0.114%	
154	15.130	15.108	15.238	VV	825	47575	2.18%	0.097%	
155	15.277	15.238	15.304	VV	590	19533	0.90%	0.040%	
156	15.320	15.304	15.404	VV	606	26827	1.23%	0.055%	
157	15.455	15.404	15.608	VV	2537	60643	2.78%	0.124%	
158	15.654	15.608	15.676	VV	304	9025	0.41%	0.018%	
159	15.692	15.676	15.741	VV	197	7215	0.33%	0.015%	
160	15.774	15.741	15.868	VV	299	14168	0.65%	0.029%	
161	15.881	15.868	15.898	VV	228	3134	0.14%	0.006%	
162	15.956	15.898	16.059	VV	1038	24952	1.14%	0.051%	
163	16.148	16.059	16.178	PV	189	7245	0.33%	0.015%	
164	16.183	16.178	16.234	VV	149	2403	0.11%	0.005%	
165	16.278	16.234	16.308	VV	206	4798	0.22%	0.010%	
166	16.346	16.308	16.384	VV	230	5176	0.24%	0.011%	
167	16.440	16.384	16.479	VV	584	13955	0.64%	0.028%	
168	16.500	16.479	16.524	VV	264	4295	0.20%	0.009%	
169	16.608	16.524	16.644	PV	224	9195	0.42%	0.019%	
170	16.657	16.644	16.700	VV	172	4256	0.20%	0.009%	
171	16.744	16.700	16.861	VV	201	12885	0.59%	0.026%	
172	16.908	16.861	16.941	VV	560	11610	0.53%	0.024%	
173	16.957	16.941	17.030	VV	176	4432	0.20%	0.009%	
174	17.171	17.030	17.204	PV	212	11295	0.52%	0.023%	
175	17.359	17.204	17.401	VV	679	18982	0.87%	0.039%	
176	17.535	17.401	17.594	PV	186	11605	0.53%	0.024%	
177	17.645	17.594	17.664	PV	89	2937	0.13%	0.006%	
178	17.682	17.664	17.731	PV	228	2697	0.12%	0.006%	
179	17.796	17.731	17.891	VV	1082	21900	1.00%	0.045%	
180	18.095	17.891	18.114	PV	100	10382	0.48%	0.021%	
181	18.218	18.114	18.284	PV	1246	29686	1.36%	0.061%	
182	18.479	18.284	18.510	VV	147	14188	0.65%	0.029%	
183	18.629	18.510	18.688	PV	1526	30830	1.41%	0.063%	
184	18.936	18.688	18.953	VV	108	14787	0.68%	0.030%	
185	19.027	18.953	19.074	PV	1378	26674	1.22%	0.054%	
186	19.189	19.074	19.244	VV	347	20778	0.95%	0.042%	
187	19.320	19.244	19.347	VV	366	18628	0.85%	0.038%	
188	19.413	19.347	19.464	VV	1562	45564	2.09%	0.093%	
189	19.790	19.464	19.818	VV	1829	169190	7.76%	0.345%	
190	21.986	21.971	22.001	VBA	123	11887	0.54%	0.024%	

Sum of corrected areas: 48996567

Instrument :

FID_C

ClientSampleId :

SOILD2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	09/10/25
Project:	19 Ashlynn Court	Date Received:	10/06/25
Client Sample ID:	SOILDL2	SDG No.:	Q3301
Lab Sample ID:	Q3301-01DL2	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049837.D	25	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	58.1		3.69	20.5	mg/kg
Aromatic C12-C16	Aromatic C12-C16	290		7.08	30.8	mg/kg
Aromatic C16-C21	Aromatic C16-C21	562		12.3	51.3	mg/kg
Aromatic C21-C36	Aromatic C21-C36	87.3		36.6	82.1	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	7.20		40 - 140	360%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	9.55		40 - 140	478%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	5.16		40 - 140	258%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3301-01DL2	Acq On:	08 Oct 2025 15:08
Client Sample ID:	SOILDL2	Operator:	YP/AJ
Data file:	FD049837.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	25	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	3479838	28.34	200	ug/ml
Aromatic C12-C16	6.138	8.765	20283976	141.491	300	ug/ml
Aromatic C16-C21	8.766	13.056	38992222	274.262	500	ug/ml
Aromatic C21-C36	13.057	18.475	5271872	42.576	800	ug/ml
Aromatic EPH	4.394	18.475	68027908	486.669		ug/ml
2-Bromonaphthalene (SURRE)	7.702	7.702	855312	7.2		ug/ml
2-Fluorobiphenyl (SURRE)	8.564	8.564	811072	9.55		ug/ml
ortho-Terphenyl (SURRE)	11.610	11.610	770521	5.16		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049837.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 15:08
 Operator : YP/AJ
 Sample : Q3301-01DL2 25X
 Misc :
 ALS Vial : 69 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 SOIL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 15:52:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.702	855312	7.199 ug/ml
Spiked Amount 50.000		Recovery =	14.40%
6) S 2-Fluorobiphenyl (SURR)	8.564	811072	9.553 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	19.11%
11) S ortho-Terphenyl (SURR)	11.610	770521	5.161 ug/ml
Spiked Amount 50.000		Recovery =	10.32%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049837.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 15:08
Operator : YP/AJ
Sample : Q3301-01DL2 25X
Misc :
ALS Vial : 69 Sample Multiplier: 1

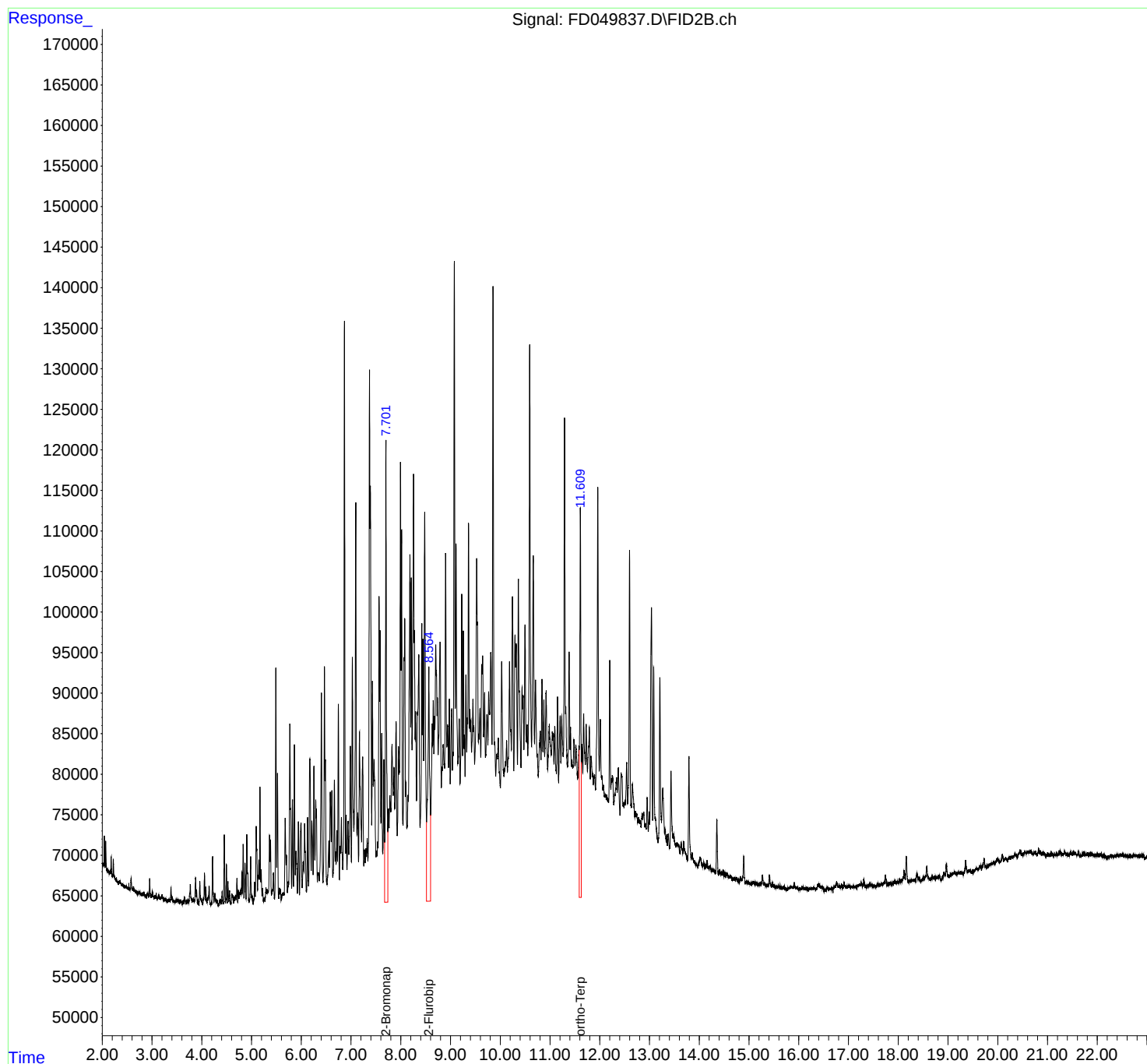
Instrument :
FID_D
ClientSampleId :
SOIL

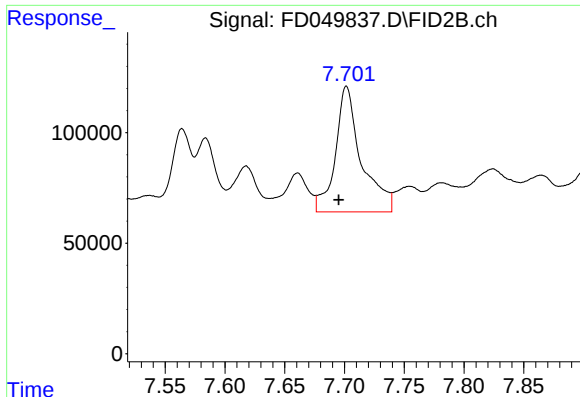
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 15:52:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





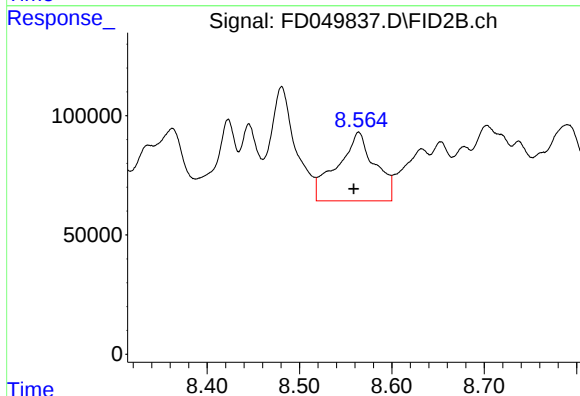
#4 2-Bromonaphthalene (SURR)

R.T.: 7.702 min
Delta R.T.: 0.007 min
Response: 855312
Conc: 7.20 ug/ml

Instrument :
FID_D
ClientSampleId :
SOIL

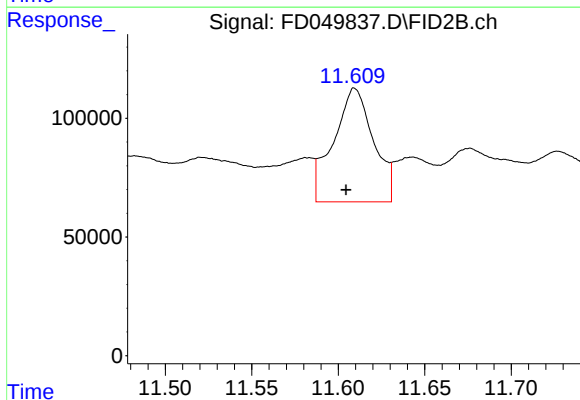
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.564 min
Delta R.T.: 0.005 min
Response: 811072
Conc: 9.55 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: 0.005 min
Response: 770521
Conc: 5.16 ug/ml

rteres

Instrument :

FID_D

ClientSampleId :

SOIL

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10082
Data File : FD049837.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 15:08
Sample : Q3301-01DL2 25X
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.261	4.252	4.294	PH	935	10830	0.87%	0.015%
2	4.297	4.294	4.308	PV	204	1238	0.10%	0.002%
3	4.317	4.308	4.334	VV	443	3543	0.28%	0.005%
4	4.370	4.334	4.393	PV	828	16527	1.32%	0.023%
5	4.409	4.393	4.435	VV	1769	22673	1.81%	0.032%
6	4.453	4.435	4.478	VV	8794	84426	6.76%	0.120%
7	4.496	4.478	4.514	VV	5139	47928	3.84%	0.068%
8	4.526	4.514	4.545	VV	3011	31157	2.49%	0.044%
9	4.558	4.545	4.587	VV	1868	23894	1.91%	0.034%
10	4.604	4.587	4.638	VV	1476	29776	2.38%	0.042%
11	4.654	4.638	4.664	VV	1082	12962	1.04%	0.018%
12	4.678	4.664	4.692	VV	1269	17141	1.37%	0.024%
13	4.707	4.692	4.722	VV	3382	34142	2.73%	0.048%
14	4.737	4.722	4.750	VV	1862	20239	1.62%	0.029%
15	4.763	4.750	4.775	VV	1618	21075	1.69%	0.030%
16	4.783	4.775	4.793	VV	1894	18305	1.47%	0.026%
17	4.806	4.793	4.817	VV	4100	40870	3.27%	0.058%
18	4.832	4.817	4.848	VV	7586	74171	5.94%	0.105%
19	4.869	4.848	4.889	VV	5248	70373	5.63%	0.100%
20	4.906	4.889	4.946	VV	8720	128301	10.27%	0.182%
21	4.983	4.946	5.007	VV	6037	74771	5.98%	0.106%
22	5.015	5.007	5.034	VV	1168	10809	0.87%	0.015%
23	5.061	5.034	5.074	VV	2838	32953	2.64%	0.047%
24	5.094	5.074	5.121	VV	9770	154740	12.38%	0.219%
25	5.147	5.121	5.156	VV	5547	80352	6.43%	0.114%
26	5.170	5.156	5.185	VV	14607	141134	11.30%	0.200%
27	5.224	5.213	5.239	VV	2090	21750	1.74%	0.031%
28	5.258	5.239	5.270	VV	819	12712	1.02%	0.018%
29	5.290	5.270	5.304	VV	2158	28378	2.27%	0.040%
30	5.314	5.304	5.336	VV	1953	32909	2.63%	0.047%
31	5.362	5.336	5.372	VV	8636	103569	8.29%	0.147%
32	5.381	5.372	5.400	VV	7998	82375	6.59%	0.117%
33	5.419	5.400	5.424	VV	1905	22883	1.83%	0.032%
34	5.440	5.424	5.463	VV	3934	52662	4.21%	0.075%
35	5.522	5.506	5.545	VV	16254	182026	14.57%	0.258%
36	5.560	5.545	5.569	VV	2064	21929	1.76%	0.031%

					riteres			
37	5.579	5.569	5.596	VV	1970	22928	1.84%	0.033%
38	5.628	5.596	5.639	VV	1377	29331		
39	5.647	5.639	5.655	VV	1494	13127		
40	5.677	5.655	5.695	VV	10657	145441	11.84%	0.033%
41	5.703	5.695	5.724	VV	6141	66297		
42	5.739	5.724	5.746	VV	2811	30673		
43	5.771	5.746	5.807	VV	22294	383113	30.66%	0.543%
44	5.862	5.844	5.879	VV	19710	213379	17.08%	0.303%
45	5.895	5.879	5.923	VV	6500	118531	9.49%	0.168%
46	5.942	5.923	5.965	VV	10172	137648	11.02%	0.195%
47	5.993	5.965	6.018	VV	10051	194172	15.54%	0.275%
48	6.040	6.018	6.053	VV	5301	84332	6.75%	0.120%
49	6.067	6.053	6.105	VV	9953	176680	14.14%	0.251%
50	6.126	6.105	6.149	VV	10629	130801	10.47%	0.186%
51	6.214	6.200	6.238	VV	10225	169660	13.58%	0.241%
52	6.254	6.238	6.273	VV	16991	205661	16.46%	0.292%
53	6.292	6.273	6.300	VV	12713	149592	11.97%	0.212%
54	6.305	6.300	6.325	VV	11675	114638	9.17%	0.163%
55	6.336	6.325	6.342	VV	3872	36292	2.90%	0.051%
56	6.349	6.342	6.363	VV	3864	43653	3.49%	0.062%
57	6.405	6.363	6.436	VV	26007	430717	34.47%	0.611%
58	6.467	6.436	6.478	VV	29137	337460	27.01%	0.479%
59	6.485	6.478	6.515	VV	17857	192650	15.42%	0.273%
60	6.555	6.515	6.567	VV	7762	149608	11.97%	0.212%
61	6.583	6.567	6.603	VV	13687	217787	17.43%	0.309%
62	6.615	6.603	6.635	VV	13948	165841	13.27%	0.235%
63	6.667	6.635	6.682	VV	15255	222574	17.81%	0.316%
64	6.690	6.682	6.699	VV	6322	56127	4.49%	0.080%
65	6.716	6.699	6.728	VV	8903	119106	9.53%	0.169%
66	6.747	6.728	6.767	VV	24568	291970	23.37%	0.414%
67	6.785	6.767	6.793	VV	7060	89701	7.18%	0.127%
68	6.904	6.892	6.920	VV	10851	130837	10.47%	0.186%
69	6.939	6.920	6.957	VV	10036	165887	13.28%	0.235%
70	6.987	6.957	7.008	VV	19353	341896	27.36%	0.485%
71	7.028	7.008	7.058	VV	30186	470724	37.67%	0.668%
72	7.096	7.058	7.120	VV	49475	798311	63.89%	1.132%
73	7.137	7.120	7.152	VV	11136	175095	14.01%	0.248%
74	7.171	7.152	7.212	VV	21066	453915	36.33%	0.644%
75	7.235	7.212	7.257	VV	18023	326747	26.15%	0.463%
76	7.272	7.257	7.287	VV	6430	102471	8.20%	0.145%
77	7.300	7.287	7.310	VV	6687	83372	6.67%	0.118%
78	7.325	7.310	7.339	VV	7871	115814	9.27%	0.164%
79	7.372	7.339	7.383	VV	65594	782387	62.62%	1.110%
80	7.464	7.448	7.503	VV	17585	425810	34.08%	0.604%
81	7.512	7.503	7.522	VV	6367	70637	5.65%	0.100%
82	7.537	7.522	7.545	VV	7486	93553	7.49%	0.133%
83	7.564	7.545	7.575	VV	37666	424255	33.95%	0.602%
84	7.584	7.575	7.602	VV	33471	372725	29.83%	0.529%
85	7.661	7.638	7.676	VV	17568	249152	19.94%	0.353%
86	7.702	7.676	7.740	VV	56889	855312	68.45%	1.213%
87	7.781	7.766	7.798	VV	13128	224359	17.96%	0.318%
88	7.824	7.798	7.847	VV	19425	456577	36.54%	0.648%
89	7.864	7.847	7.880	VV	16549	285031	22.81%	0.404%

Instrument :

FID_D

ClientSampleId :

SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

							Instrument : FID_D	
							ClientSampleId : SOIL	
rteres								
90	7.906	7.880	7.928	VV	22280	431955	34.57%	0.613%
91	7.955	7.928	7.967	VV	19047	329168	26.37%	0.467%
92	7.995	7.967	8.007	VV	54096	736615	58.23%	1.032%
93	8.017	8.007	8.045	VV	45805	586676	46.29%	0.856%
94	8.080	8.045	8.097	VV	35005	717796	57.51%	1.019%
95	8.105	8.097	8.124	VV	14656	192110	15.86%	0.258%
							Manual IntegrationsAPPROVED	
96	8.146	8.124	8.154	VV	13059	201065	16.09%	0.285%
97	8.184	8.154	8.200	VV	42701	786753	62.97%	1.116%
98	8.212	8.200	8.228	VV	39964	501145	40.11%	0.711%
99	8.257	8.228	8.270	VV	52666	914752	73.21%	1.298%
100	8.275	8.270	8.289	VV	33462	308699	24.71%	0.438%
101	8.299	8.289	8.317	VV	23318	329506	26.37%	0.467%
102	8.337	8.317	8.342	VV	23348	282121	22.58%	0.400%
103	8.362	8.342	8.388	VV	30414	603369	48.29%	0.856%
104	8.423	8.388	8.434	VV	34375	530953	42.49%	0.753%
105	8.445	8.434	8.460	VV	32311	390425	31.25%	0.554%
106	8.481	8.460	8.518	VV	47856	897807	71.86%	1.274%
107	8.564	8.518	8.600	VV	28811	811072	64.91%	1.151%
108	8.632	8.600	8.641	VV	21841	411499	32.93%	0.584%
109	8.653	8.641	8.666	VV	24716	315807	25.28%	0.448%
110	8.678	8.666	8.686	VV	22771	255844	20.48%	0.363%
111	8.703	8.686	8.730	VV	31623	718549	57.51%	1.019%
112	8.737	8.730	8.752	VV	25028	298770	23.91%	0.424%
113	8.790	8.752	8.816	VV	31886	902841	72.26%	1.281%
114	8.829	8.816	8.835	VV	16472	181990	14.57%	0.258%
115	8.854	8.835	8.881	VV	19154	486408	38.93%	0.690%
116	8.901	8.881	8.927	VV	42820	759081	60.75%	1.077%
117	8.941	8.927	8.961	VV	21692	399017	31.93%	0.566%
118	8.976	8.961	8.994	VV	24823	389760	31.19%	0.553%
119	9.025	8.994	9.039	VV	23660	536493	42.94%	0.761%
120	9.049	9.039	9.053	VV	18231	148221	11.86%	0.210%
121	9.176	9.147	9.193	VV	22373	512040	40.98%	0.726%
122	9.226	9.193	9.243	VV	37747	727590	58.23%	1.032%
123	9.258	9.243	9.273	VV	33222	454104	36.34%	0.644%
124	9.280	9.273	9.293	VV	20172	218818	17.51%	0.310%
125	9.310	9.293	9.326	VV	27848	436985	34.97%	0.620%
126	9.340	9.326	9.346	VV	22530	247313	19.79%	0.351%
127	9.363	9.346	9.380	VV	46499	677430	54.22%	0.961%
128	9.389	9.380	9.400	VV	23602	270454	21.65%	0.384%
129	9.409	9.400	9.424	VV	22085	287448	23.01%	0.408%
130	9.451	9.424	9.463	VV	24706	511560	40.94%	0.726%
131	9.469	9.463	9.485	VV	21422	258018	20.65%	0.366%
132	9.526	9.485	9.560	VV	41957	1249469	100.00%	1.772%
133	9.567	9.560	9.573	VV	20337	157355	12.59%	0.223%
134	9.593	9.573	9.609	VV	23564	450440	36.05%	0.639%
135	9.627	9.609	9.635	VV	28916	388879	31.12%	0.552%
136	9.685	9.667	9.702	VV	25545	459236	36.75%	0.651%
137	9.732	9.702	9.752	VV	22793	607986	48.66%	0.862%
138	9.889	9.884	9.909	VV	19394	272814	21.83%	0.387%
139	9.937	9.909	9.943	VV	17893	345906	27.68%	0.491%
140	9.962	9.943	10.003	VV	19911	610566	48.87%	0.866%
141	10.105	10.075	10.112	VV	16944	352122	28.18%	0.499%

					Instrument : FID_D ClientSampleId : SOIL			
142	10.128	10.112	10.144	VV	19486	340843	27.28%	0.483%
143	10.187	10.144	10.205	VV	29327	781079	62.28%	0.483%
144	10.296	10.272	10.309	VV	32520	570011	45.28%	0.483%
145	10.439	10.417	10.450	VV	26053	437235	34.28%	0.483%
146	10.459	10.450	10.476	VV	25119	360161	28.28%	0.483%
147	10.498	10.476	10.527	VV	33786	761669	60.28%	0.483%
148	10.540	10.527	10.554	VV	21432	328916	26.32%	0.467%
149	10.664	10.629	10.688	VV	42308	1010700	80.89%	1.434%
150	10.710	10.688	10.764	VV	26944	928776	74.33%	1.317%
151	10.804	10.764	10.820	VV	20603	608031	48.66%	0.862%
152	10.839	10.820	10.858	VV	26967	496721	39.75%	0.705%
153	10.877	10.858	10.893	VV	24440	440336	35.24%	0.625%
154	10.922	10.893	10.954	VV	25569	742526	59.43%	1.053%
155	10.986	10.954	11.024	VV	21412	793169	63.48%	1.125%
156	11.046	11.024	11.057	VV	20459	382596	30.62%	0.543%
157	11.064	11.057	11.079	VV	20216	255043	20.41%	0.362%
158	11.097	11.079	11.129	VV	21088	527058	42.18%	0.748%
159	11.152	11.129	11.173	VV	24656	512135	40.99%	0.726%
160	11.202	11.173	11.220	VV	22459	537178	42.99%	0.762%
161	11.236	11.220	11.266	VV	22328	541888	43.37%	0.769%
162	11.292	11.266	11.312	VV	58934	946288	75.74%	1.342%
163	11.317	11.312	11.353	VV	23567	472078	37.78%	0.670%
164	11.384	11.353	11.402	VV	30312	657341	52.61%	0.932%
165	11.412	11.402	11.429	VV	21014	306541	24.53%	0.435%
166	11.438	11.429	11.455	VV	16921	252735	20.23%	0.359%
167	11.482	11.455	11.505	VV	19422	526636	42.15%	0.747%
168	11.521	11.505	11.554	VV	18793	496244	39.72%	0.704%
169	11.583	11.554	11.587	VV	18567	331481	26.53%	0.470%
170	11.610	11.587	11.631	VV	47738	770521	61.67%	1.093%
171	11.643	11.631	11.658	VV	18887	282798	22.63%	0.401%
172	11.676	11.658	11.710	VV	22498	581954	46.58%	0.826%
173	11.727	11.710	11.752	VV	21313	466645	37.35%	0.662%
174	11.790	11.752	11.809	VV	20953	611323	48.93%	0.867%
175	11.825	11.809	11.851	VV	17380	401952	32.17%	0.570%
176	11.856	11.851	11.870	VV	15259	170874	13.68%	0.242%
177	11.885	11.870	11.890	VV	14890	174950	14.00%	0.248%
178	11.896	11.890	11.914	VV	14946	203399	16.28%	0.289%
179	11.960	11.914	11.991	VV	50475	1166867	93.39%	1.655%
180	12.011	11.991	12.038	VV	21864	506662	40.55%	0.719%
181	12.044	12.038	12.065	VV	14811	226659	18.14%	0.322%
182	12.075	12.065	12.103	VV	13683	295215	23.63%	0.419%
183	12.113	12.103	12.128	VV	12618	188238	15.07%	0.267%
184	12.140	12.128	12.158	VV	12535	215462	17.24%	0.306%
185	12.166	12.158	12.178	VV	12025	141844	11.35%	0.201%
186	12.233	12.223	12.237	VV	14206	114994	9.20%	0.163%
187	12.252	12.237	12.282	VV	14907	374346	29.96%	0.531%
188	12.338	12.282	12.352	VV	14592	548632	43.91%	0.778%
189	12.373	12.352	12.407	VV	15798	438493	35.09%	0.622%
190	12.430	12.407	12.470	VV	15196	502582	40.22%	0.713%
191	12.476	12.470	12.489	VV	11484	124028	9.93%	0.176%
192	12.502	12.489	12.510	VV	11564	147783	11.83%	0.210%
193	12.541	12.510	12.560	VV	16421	403744	32.31%	0.573%
194	12.599	12.560	12.637	VV	42590	890051	71.23%	1.263%

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					rteres				
195	12.656	12.637	12.705	VV	13815	487924	39.05%	0.692%	
196	12.745	12.739	12.762	VV	10112	132953	10.00%	0.000%	
197	12.916	12.906	12.934	VV	8922	143464	11.00%	0.000%	
198	12.954	12.934	12.977	VV	12117	256859	20.00%	0.000%	
199	12.992	12.977	13.003	VV	10106	145768	11.00%	0.000%	
200	13.085	13.064	13.110	VV	28117	469568	37.00%	0.000%	
201	13.116	13.110	13.169	VV	9647	284486	22.77%	0.404%	
202	13.209	13.169	13.241	VV	26827	568369	45.49%	0.806%	
203	13.265	13.241	13.302	VV	13090	390499	31.25%	0.554%	
204	13.313	13.302	13.334	VV	8109	144488	11.56%	0.205%	
205	13.347	13.334	13.363	VV	7419	120162	9.62%	0.170%	
206	13.377	13.363	13.408	VV	7539	178196	14.26%	0.253%	
207	13.637	13.613	13.670	VV	6505	196212	15.70%	0.278%	
208	13.688	13.670	13.752	VV	6562	263113	21.06%	0.373%	
209	13.758	13.752	13.766	VV	4490	37127	2.97%	0.053%	
210	13.793	13.766	13.838	VV	16920	352848	28.24%	0.501%	
211	13.878	13.874	13.900	VV	4448	66580	5.33%	0.094%	
212	13.943	13.934	13.972	VV	3764	81586	6.53%	0.116%	
213	14.014	13.972	14.069	VV	4629	229812	18.39%	0.326%	
214	14.156	14.140	14.179	VV	4145	83097	6.65%	0.118%	
215	14.182	14.179	14.195	VV	3348	30933	2.48%	0.044%	
216	14.215	14.195	14.240	VV	3432	89135	7.13%	0.126%	
217	14.252	14.240	14.300	VV	3061	104388	8.35%	0.148%	
218	14.451	14.442	14.468	VV	2634	38875	3.11%	0.055%	
219	14.479	14.468	14.499	VV	2898	47542	3.80%	0.067%	
220	14.502	14.499	14.505	VV	2305	8863	0.71%	0.013%	
221	14.519	14.505	14.534	VV	2636	41890	3.35%	0.059%	
222	14.546	14.534	14.550	VV	2436	21902	1.75%	0.031%	
223	14.559	14.550	14.574	VV	2558	33330	2.67%	0.047%	
224	14.580	14.574	14.597	VV	2275	29410	2.35%	0.042%	
225	14.618	14.597	14.624	VV	2177	33827	2.71%	0.048%	
226	14.634	14.624	14.659	VV	2196	41922	3.36%	0.059%	
227	14.669	14.659	14.687	VV	1895	30638	2.45%	0.043%	
228	14.701	14.687	14.713	VV	1940	28720	2.30%	0.041%	
229	14.720	14.713	14.724	VV	1725	10974	0.88%	0.016%	
230	14.758	14.724	14.776	VV	1933	54537	4.36%	0.077%	
231	14.932	14.926	14.966	VV	1414	32270	2.58%	0.046%	
232	14.977	14.966	15.024	VV	1461	43546	3.49%	0.062%	
233	15.031	15.024	15.041	VV	1229	12119	0.97%	0.017%	
234	15.048	15.041	15.054	VV	1248	9045	0.72%	0.013%	
235	15.071	15.054	15.076	VV	1307	15248	1.22%	0.022%	
236	15.082	15.076	15.104	VV	1375	21538	1.72%	0.031%	
237	15.111	15.104	15.119	VV	1324	10605	0.85%	0.015%	
238	15.123	15.119	15.132	VV	1251	9560	0.77%	0.014%	
239	15.139	15.132	15.148	VV	1292	11384	0.91%	0.016%	
240	15.155	15.148	15.165	VV	1232	11367	0.91%	0.016%	
241	15.170	15.165	15.184	VV	1129	11642	0.93%	0.017%	
242	15.195	15.184	15.200	VV	1127	10366	0.83%	0.015%	
243	15.218	15.200	15.225	VV	1230	16232	1.30%	0.023%	
244	15.230	15.225	15.245	VV	1245	13464	1.08%	0.019%	
245	15.270	15.245	15.310	VV	2128	54786	4.38%	0.078%	
246	15.317	15.310	15.337	VV	1209	17320	1.39%	0.025%	

Instrument :

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					nteres			
247	15.345	15.337	15.359	VV	942	11200	0.90%	0.016%
248	15.375	15.359	15.384	VV	942	12315	0.90%	0.016%
249	15.412	15.384	15.451	VV	2047	49285	0.90%	0.016%
250	15.471	15.451	15.489	VV	1269	23369	0.90%	0.016%
251	15.502	15.489	15.518	VV	930	13874	0.90%	0.016%
252	15.522	15.518	15.534	VV	775	6457	0.90%	0.016%
253	15.552	15.534	15.585	VV	758	20502	1.64%	0.029%
254	15.592	15.585	15.612	VV	747	11458	0.92%	0.016%
255	15.619	15.612	15.643	VV	817	11102	0.89%	0.016%
256	15.649	15.643	15.665	VV	688	6991	0.56%	0.010%
257	15.680	15.665	15.702	VV	714	12083	0.97%	0.017%
258	15.710	15.702	15.744	VV	793	11866	0.95%	0.017%
259	15.749	15.744	15.755	VV	518	2778	0.22%	0.004%
260	15.769	15.755	15.773	VV	460	3864	0.31%	0.005%
261	15.779	15.773	15.791	VV	513	4833	0.39%	0.007%
262	15.816	15.791	15.823	VV	585	9453	0.76%	0.013%
263	15.840	15.823	15.844	VV	767	7731	0.62%	0.011%
264	15.852	15.844	15.872	VV	735	10431	0.83%	0.015%
265	15.875	15.872	15.881	VV	608	3028	0.24%	0.004%
266	15.887	15.881	15.894	VV	640	4024	0.32%	0.006%
267	15.911	15.894	15.937	VV	1101	19638	1.57%	0.028%
268	15.942	15.937	15.955	VV	572	5884	0.47%	0.008%
269	15.968	15.955	16.003	VV	600	12492	1.00%	0.018%
270	16.009	16.003	16.013	VV	438	1901	0.15%	0.003%
271	16.018	16.013	16.027	VV	542	3058	0.24%	0.004%
272	16.031	16.027	16.043	VV	436	3327	0.27%	0.005%
273	16.048	16.043	16.050	VV	479	1547	0.12%	0.002%
274	16.060	16.050	16.069	VV	690	5306	0.42%	0.008%
275	16.080	16.069	16.110	VV	556	11556	0.92%	0.016%
276	16.135	16.110	16.145	VV	480	7929	0.63%	0.011%
277	16.156	16.145	16.195	VV	558	9882	0.79%	0.014%
278	16.218	16.195	16.224	VV	419	5601	0.45%	0.008%
279	16.227	16.224	16.232	VV	390	1498	0.12%	0.002%
280	16.241	16.232	16.261	VV	477	6755	0.54%	0.010%
281	16.265	16.261	16.276	VV	416	3592	0.29%	0.005%
282	16.292	16.276	16.297	VV	454	5161	0.41%	0.007%
283	16.302	16.297	16.345	VV	454	10158	0.81%	0.014%
284	16.358	16.345	16.366	VV	485	4711	0.38%	0.007%
285	16.387	16.366	16.393	VV	942	11741	0.94%	0.017%
286	16.396	16.393	16.405	VV	864	5784	0.46%	0.008%
287	16.416	16.405	16.433	VV	926	11866	0.95%	0.017%
288	16.457	16.433	16.475	VV	622	12816	1.03%	0.018%
289	16.480	16.475	16.501	VV	614	6097	0.49%	0.009%
290	16.508	16.501	16.532	PV	251	2649	0.21%	0.004%
291	16.561	16.532	16.566	PV	375	3145	0.25%	0.004%
292	16.573	16.566	16.604	VV	487	6409	0.51%	0.009%
293	16.610	16.604	16.617	VV	317	1939	0.16%	0.003%
294	16.624	16.617	16.659	VV	312	5851	0.47%	0.008%
295	16.667	16.659	16.675	VV	391	2490	0.20%	0.004%
296	16.701	16.675	16.709	VV	486	5742	0.46%	0.008%
297	16.721	16.709	16.734	VV	476	6123	0.49%	0.009%
298	16.736	16.734	16.742	VV	626	2441	0.20%	0.003%
299	16.761	16.742	16.790	VV	1021	20373	1.63%	0.029%

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Manual IntegrationsAPPROVED

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300	16.809	16.790	16.832	VV	631	11445	0.92%	0.016%
301	16.836	16.832	16.841	VV	433	2185		
302	16.861	16.841	16.880	VV	725	11158		
303	16.885	16.880	16.892	VV	426	2273		
304	16.910	16.892	16.916	VV	893	9305		
305	16.918	16.916	16.944	VV	764	7771		
306	16.951	16.944	16.962	VV	428	3634	0.29%	0.005%
307	16.968	16.962	16.987	VV	454	5052	0.40%	0.007%
308	16.990	16.987	16.997	VV	464	1986	0.16%	0.003%
309	17.010	16.997	17.015	VV	428	3980	0.32%	0.006%
310	17.019	17.015	17.032	VV	466	3636	0.29%	0.005%
311	17.036	17.032	17.043	VV	388	1815	0.15%	0.003%
312	17.057	17.043	17.064	VV	332	3177	0.25%	0.005%
313	17.093	17.064	17.107	VV	446	7044	0.56%	0.010%
314	17.112	17.107	17.119	VV	265	1760	0.14%	0.002%
315	17.122	17.119	17.134	VV	352	2199	0.18%	0.003%
316	17.141	17.134	17.145	VV	327	2139	0.17%	0.003%
317	17.153	17.145	17.159	VV	349	2295	0.18%	0.003%
318	17.165	17.159	17.170	VV	287	1571	0.13%	0.002%
319	17.179	17.170	17.198	VV	443	5852	0.47%	0.008%
320	17.220	17.198	17.235	VV	550	9502	0.76%	0.013%
321	17.248	17.235	17.262	VV	614	8416	0.67%	0.012%
322	17.267	17.262	17.285	VV	636	6329	0.51%	0.009%
323	17.289	17.285	17.293	VV	415	1829	0.15%	0.003%
324	17.306	17.293	17.364	VV	1095	19229	1.54%	0.027%
325	17.394	17.364	17.400	VV	421	5431	0.43%	0.008%
326	17.406	17.400	17.415	VV	358	2775	0.22%	0.004%
327	17.419	17.415	17.429	VV	398	2916	0.23%	0.004%
328	17.437	17.429	17.472	VV	520	8625	0.69%	0.012%
329	17.480	17.472	17.495	VV	354	3039	0.24%	0.004%
330	17.502	17.495	17.514	VV	279	2345	0.19%	0.003%
331	17.530	17.514	17.539	VV	317	2896	0.23%	0.004%
332	17.564	17.539	17.578	PV	196	3327	0.27%	0.005%
333	17.589	17.578	17.614	VV	439	5870	0.47%	0.008%
334	17.617	17.614	17.622	VV	284	1142	0.09%	0.002%
335	17.627	17.622	17.633	VV	373	1862	0.15%	0.003%
336	17.676	17.633	17.686	VV	431	8806	0.70%	0.012%
337	17.743	17.686	17.776	VV	1363	29656	2.37%	0.042%
338	17.791	17.784	17.802	VV	290	1994	0.16%	0.003%
339	17.820	17.802	17.831	VV	368	3600	0.29%	0.005%
340	17.837	17.831	17.864	VV	351	4124	0.33%	0.006%
341	17.882	17.864	17.886	VV	300	2743	0.22%	0.004%
342	17.895	17.886	17.907	VV	458	3529	0.28%	0.005%
343	17.913	17.907	17.929	VV	429	4106	0.33%	0.006%
344	17.937	17.929	17.969	VV	467	7459	0.60%	0.011%
345	17.980	17.969	18.005	VV	389	5888	0.47%	0.008%
346	18.020	18.005	18.045	VV	591	9013	0.72%	0.013%
347	18.062	18.045	18.079	VV	597	8067	0.65%	0.011%
348	18.094	18.079	18.102	VV	804	8530	0.68%	0.012%
349	18.120	18.102	18.142	VV	1576	25245	2.02%	0.036%
350	18.162	18.142	18.227	VV	3272	53752	4.30%	0.076%
351	18.231	18.227	18.242	VV	249	1677	0.13%	0.002%

Instrument :

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Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 10/10/2025

					rters		
352	18.270	18.257	18.295	VV	373	5719	
353	18.309	18.295	18.322	VV	321	4225	
354	18.328	18.322	18.348	VV	367	3408	
355	18.373	18.348	18.402	VV	1100	20381	
356	18.416	18.402	18.421	VV	485	4562	
357	18.428	18.421	18.444	VV	483	3951	

Sum of corrected areas: 70496953

Instrument :
FID_D
ClientSampleId :
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0.46% 0.008%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Aromatic EPH 100225.M Thu Oct 09 16:38:46 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC100725AL

AreaCount

Parameter Range	FC069937.D	FC069938.D	FC069939.D	FC069940.D	FC069941.D	
Aliphatic C9-C12	43171011.000	21250743.000	8161064.000	4428028.000	2320985.000	
Aliphatic C12-C16	33016544.000	16243273.000	6102029.000	3325280.000	1725815.000	
Aliphatic C16-C21	48108317.000	24065038.000	8973438.000	4960785.000	2610241.000	
Aliphatic C21-C28	55364172.000	28241357.000	10328099.000	6018987.000	3530371.000	
Aliphatic C28-C40	59763237.000	30083253.000	11204955.000	6723680.000	3980409.000	
Aliphatic EPH	239423281.000	119883664.000	44769585.000	25456760.000	14167821.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	144785.1979998	4.813				
Aliphatic C12-C16	163782.335	4.458				
Aliphatic C16-C21	161945.5019996	5.485				
Aliphatic C21-C28	147142.3355	12.304				
Aliphatic C28-C40	107599.8326666	14.464				
Aliphatic EPH	137884.7282218	9.049				

Concentration

Parameter Range	FC069937.D	FC069938.D	FC069939.D	FC069940.D	FC069941.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC069937.D	FC069938.D	FC069939.D	FC069940.D	FC069941.D	
Aliphatic C9-C12	143903.370000	141671.620000	136017.733333	147600.933333	154732.333333	
Aliphatic C12-C16	165082.720000	162432.730000	152550.725000	166264.000000	172581.500000	
Aliphatic C16-C21	160361.056666	160433.586666	149557.300000	165359.500000	174016.066666	

Initial Calibration Report for SequenceID : FC100725AL

Aliphatic C21-C28	138410.430000	141206.785000	129101.237500	150474.675000	176518.550000	
Aliphatic C28-C40	99605.395000	100277.510000	93374.625000	112061.333333	132680.300000	
Aliphatic EPH	133012.933888	133204.071111	124359.958333	141426.444444	157420.233333	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069937.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 16:17
 Operator : YP/AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 07 09:27:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.657	17428523	107.789 ug/ml
Spiked Amount 50.000		Recovery =	215.58%
12) S 1-chlorooctadecane (S...	13.088	13491128	107.925 ug/ml
Spiked Amount 50.000		Recovery =	215.85%
Target Compounds			
1) T n-Nonane (C9)	3.388	13511792	104.492 ug/ml
2) T n-Decane (C10)	4.461	14269174	105.512 ug/ml
3) T A~Naphthalene (C11.7)	6.056	16109041	106.057 ug/ml
4) T n-Dodecane (C12)	6.485	15390045	107.242 ug/ml
5) T A~2-methylnaphthalene...	7.116	16083838	107.576 ug/ml
6) T n-Tetradecane (C14)	8.283	16089121	108.439 ug/ml
7) T n-Hexadecane (C16)	9.887	16927423	108.003 ug/ml
8) T n-Octadecane (C18)	11.334	16924222	107.107 ug/ml
10) T n-Eicosane (C20)	12.643	15851454	107.240 ug/ml
11) T n-Heneicosane (C21)	13.256	15332641	107.336 ug/ml
13) T n-Docosane (C22)	13.843	14972967	107.364 ug/ml
14) T n-Tetracosane (C24)	14.946	14292557	107.227 ug/ml
15) T n-Hexacosane (C26)	15.967	13453877	107.130 ug/ml
16) T n-Octacosane (C28)	16.919	12644771	107.096 ug/ml
17) T n-Tricontane (C30)	17.806	12335576	107.079 ug/ml
18) T n-Dotriacontane (C32)	18.639	11541380	106.981 ug/ml
19) T n-Tetratriacontane (C34)	19.422	10438103	106.669 ug/ml
20) T n-Hexatriacontane (C36)	20.162	9085745	105.941 ug/ml
21) T n-Octatriacontane (C38)	20.920	8347689	106.483 ug/ml
22) T n-Tetracontane (C40)	21.873	8014744	106.647 ug/ml

(f)=RT Delta > 1/2 Window

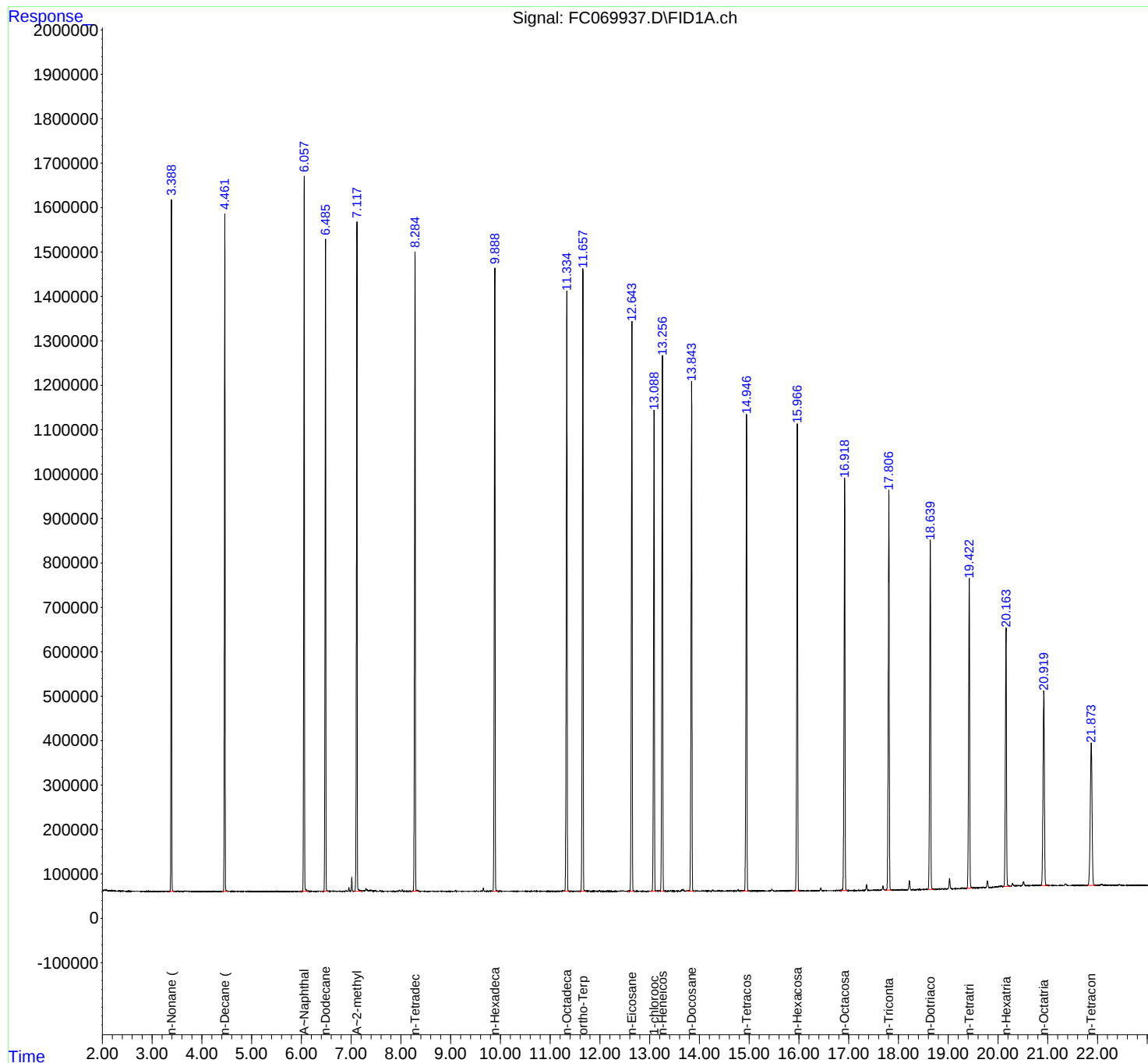
(m)=manual int.

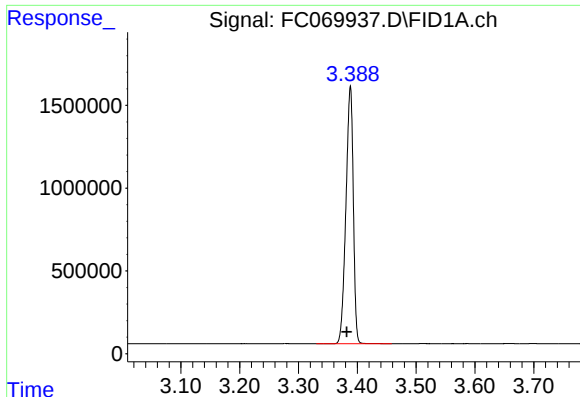
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069937.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 16:17
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 07 09:27:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

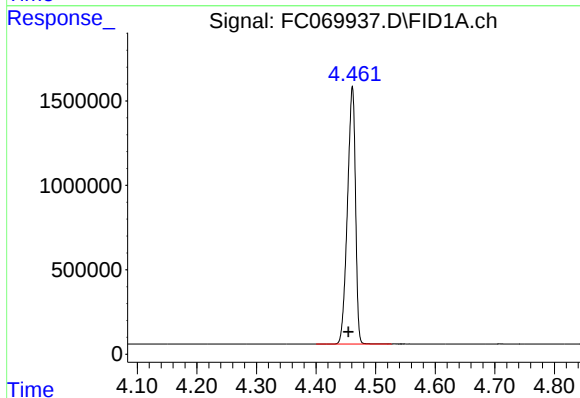




#1 n-Nonane (C9)

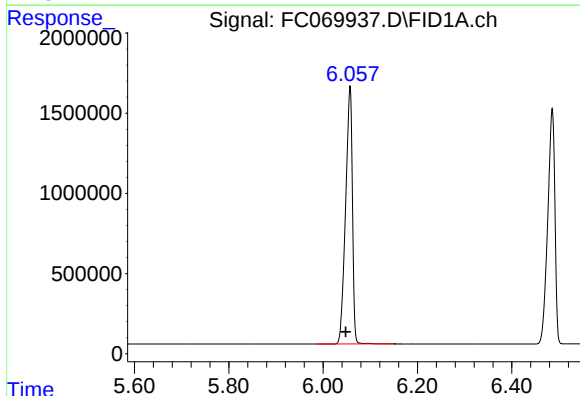
R.T.: 3.388 min
Delta R.T.: 0.006 min
Response: 13511792
Conc: 104.49 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



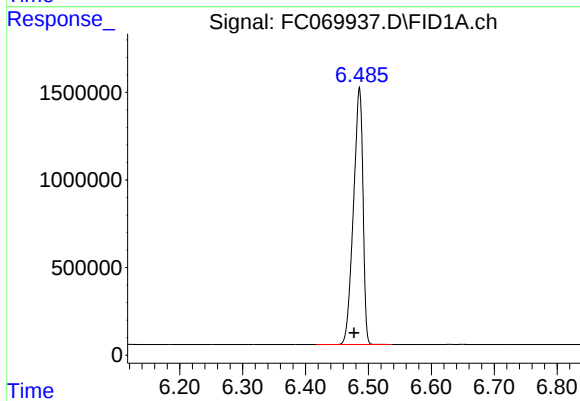
#2 n-Decane (C10)

R.T.: 4.461 min
Delta R.T.: 0.006 min
Response: 14269174
Conc: 105.51 ug/ml



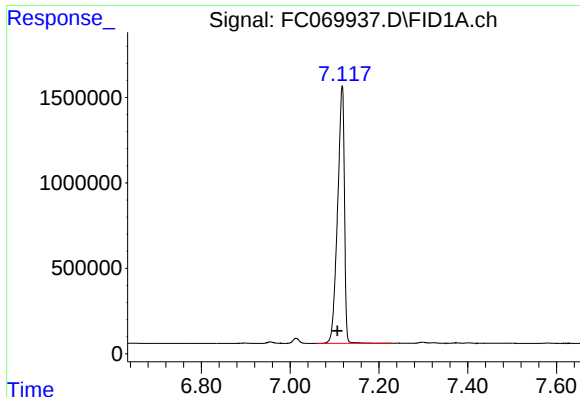
#3 A~Naphthalene (C11.7)

R.T.: 6.056 min
Delta R.T.: 0.008 min
Response: 16109041
Conc: 106.06 ug/ml



#4 n-Dodecane (C12)

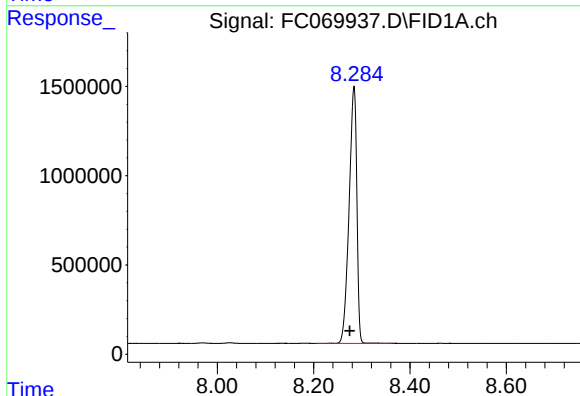
R.T.: 6.485 min
Delta R.T.: 0.008 min
Response: 15390045
Conc: 107.24 ug/ml



#5 A~2-methylnaphthalene (C12.89)

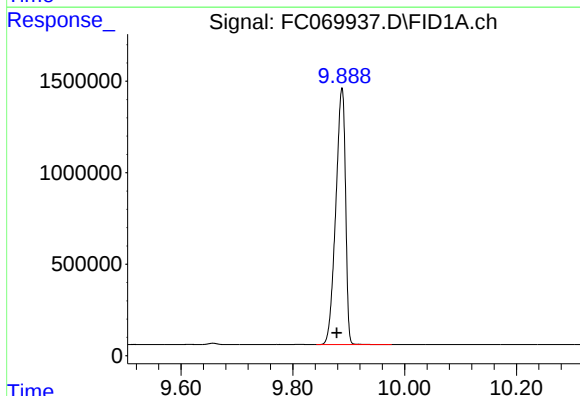
R.T.: 7.116 min
Delta R.T.: 0.010 min
Response: 16083838
Conc: 107.58 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



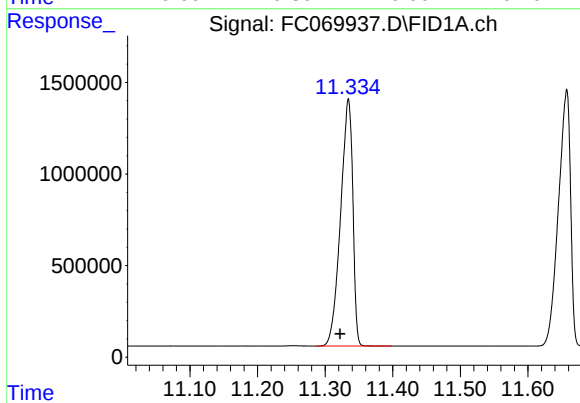
#6 n-Tetradecane (C14)

R.T.: 8.283 min
Delta R.T.: 0.008 min
Response: 16089121
Conc: 108.44 ug/ml



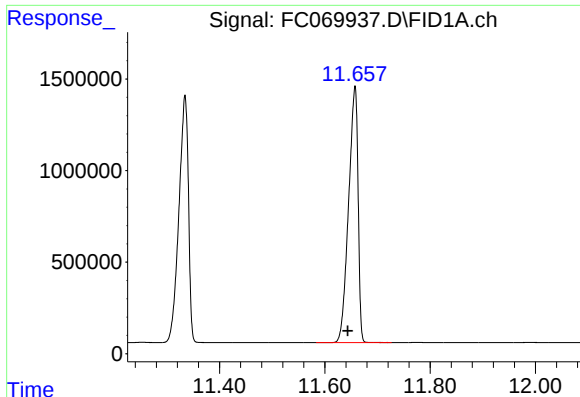
#7 n-Hexadecane (C16)

R.T.: 9.887 min
Delta R.T.: 0.009 min
Response: 16927423
Conc: 108.00 ug/ml



#8 n-Octadecane (C18)

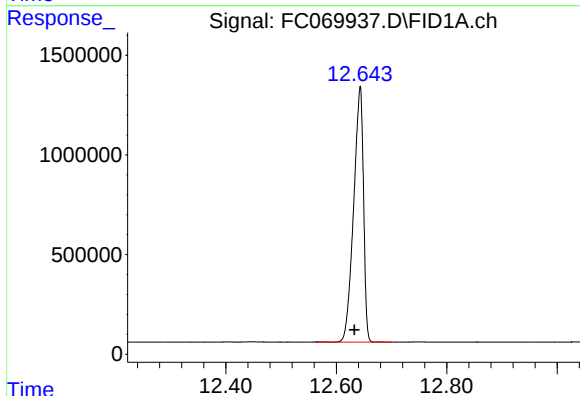
R.T.: 11.334 min
Delta R.T.: 0.012 min
Response: 16924222
Conc: 107.11 ug/ml



#9 ortho-Terphenyl (SURR)

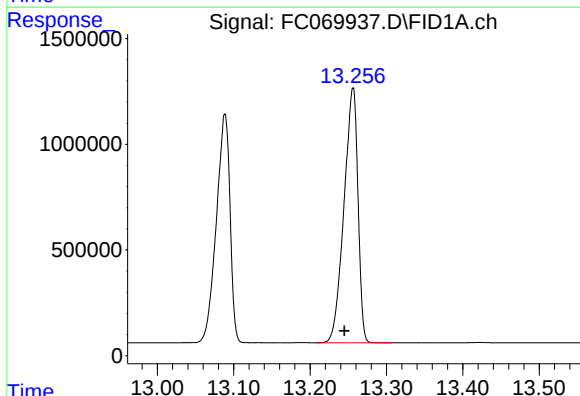
R.T.: 11.657 min
Delta R.T.: 0.013 min
Response: 17428523
Conc: 107.79 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



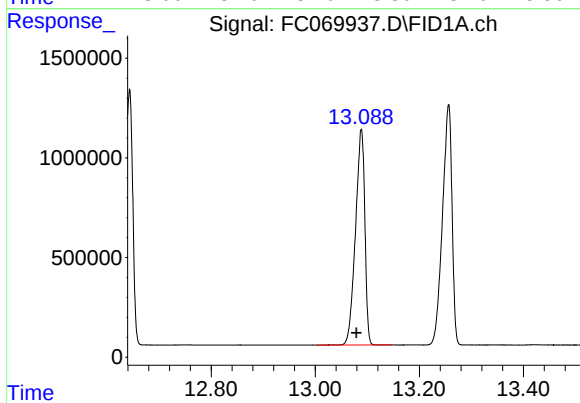
#10 n-Eicosane (C20)

R.T.: 12.643 min
Delta R.T.: 0.010 min
Response: 15851454
Conc: 107.24 ug/ml



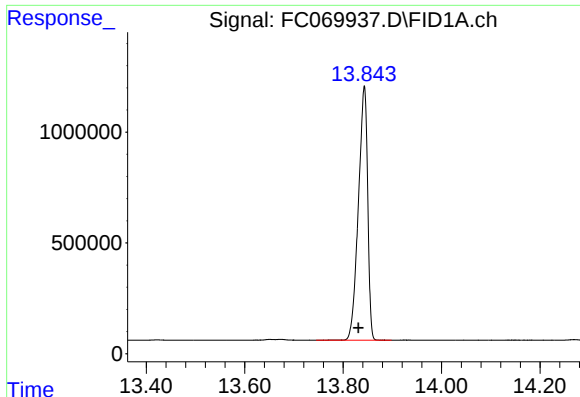
#11 n-Heneicosane (C21)

R.T.: 13.256 min
Delta R.T.: 0.011 min
Response: 15332641
Conc: 107.34 ug/ml



#12 1-chlorooctadecane (SURR)

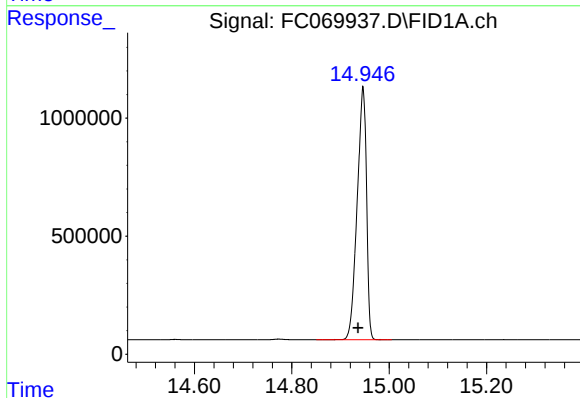
R.T.: 13.088 min
Delta R.T.: 0.009 min
Response: 13491128
Conc: 107.92 ug/ml



#13 n-Docosane (C22)

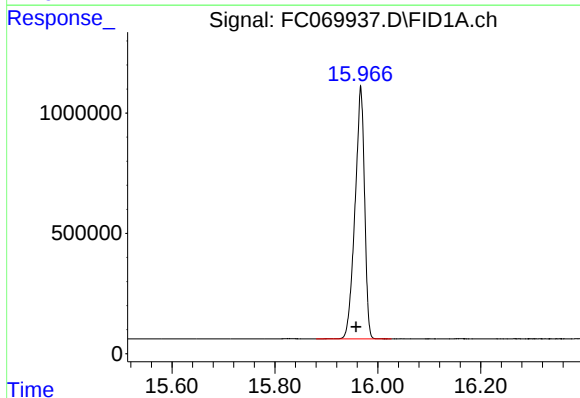
R.T.: 13.843 min
Delta R.T.: 0.012 min
Response: 14972967
Conc: 107.36 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



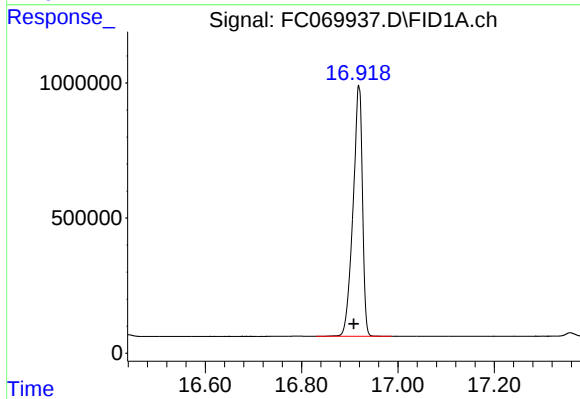
#14 n-Tetracosane (C24)

R.T.: 14.946 min
Delta R.T.: 0.010 min
Response: 14292557
Conc: 107.23 ug/ml



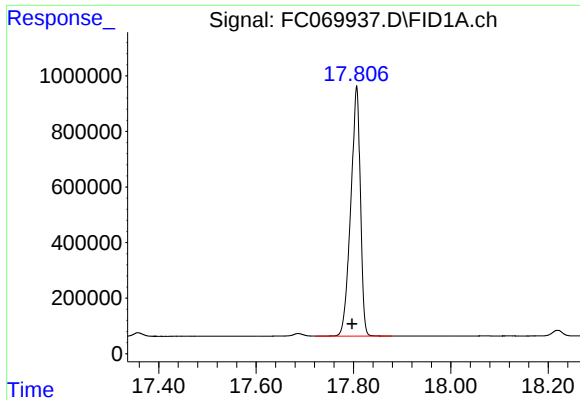
#15 n-Hexacosane (C26)

R.T.: 15.967 min
Delta R.T.: 0.009 min
Response: 13453877
Conc: 107.13 ug/ml



#16 n-Octacosane (C28)

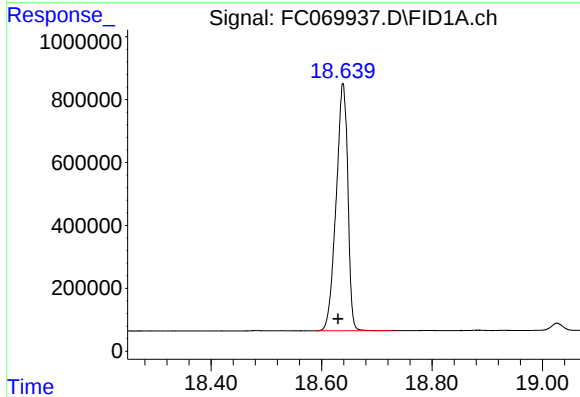
R.T.: 16.919 min
Delta R.T.: 0.011 min
Response: 12644771
Conc: 107.10 ug/ml



#17 n-Tricontane (C30)

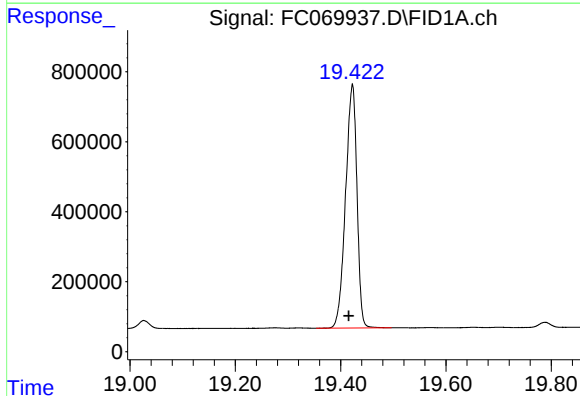
R.T.: 17.806 min
Delta R.T.: 0.009 min
Response: 12335576
Conc: 107.08 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



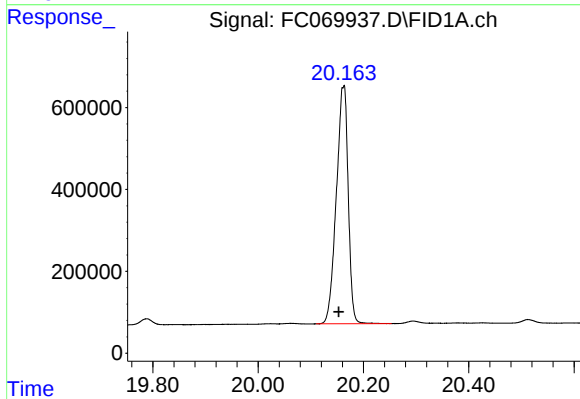
#18 n-Dotriacontane (C32)

R.T.: 18.639 min
Delta R.T.: 0.009 min
Response: 11541380
Conc: 106.98 ug/ml



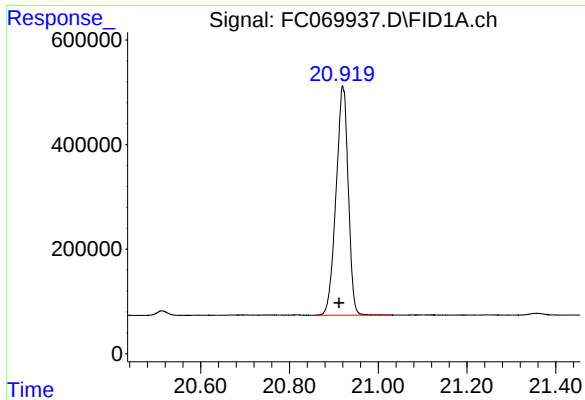
#19 n-Tetratriacontane (C34)

R.T.: 19.422 min
Delta R.T.: 0.007 min
Response: 10438103
Conc: 106.67 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.162 min
Delta R.T.: 0.008 min
Response: 9085745
Conc: 105.94 ug/ml



#21 n-Octatriacontane (C38)

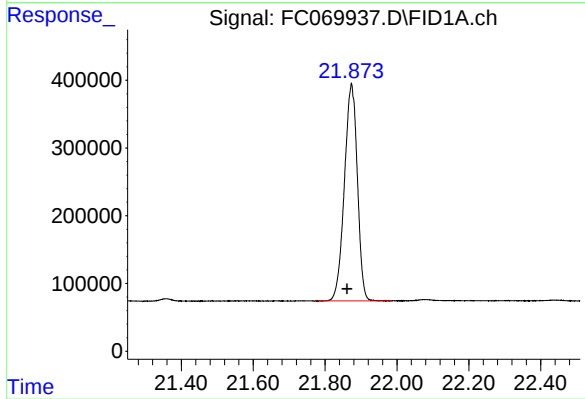
R.T.: 20.920 min
Delta R.T.: 0.009 min
Response: 8347689
Conc: 106.48 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.873 min
Delta R.T.: 0.012 min
Response: 8014744
Conc: 106.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069937.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 16:17
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.388	3.330	3.458	BB	1566610	13511792	77.53%	4.466%
2	4.461	4.400	4.527	BB	1518640	14269174	81.87%	4.717%
3	6.056	5.985	6.145	BB	1611621	16109041	92.43%	5.325%
4	6.485	6.417	6.537	BB	1464377	15390045	88.30%	5.087%
5	7.116	7.058	7.228	BV	1506266	16083838	92.28%	5.316%
6	8.283	8.205	8.362	BB	1437784	16089121	92.31%	5.318%
7	9.887	9.842	9.977	PB	1398162	16927423	97.12%	5.595%
8	11.334	11.287	11.398	BB	1347994	16924222	97.11%	5.594%
9	11.657	11.583	11.727	BB	1396107	17428523	100.00%	5.761%
10	12.643	12.563	12.700	BB	1292543	15851454	90.95%	5.240%
11	13.088	13.002	13.147	BB	1084327	13491128	77.41%	4.459%
12	13.256	13.208	13.307	PB	1204698	15332641	87.97%	5.068%
13	13.843	13.745	13.898	BB	1152336	14972967	85.91%	4.949%
14	14.946	14.850	15.005	BB	1071747	14292557	82.01%	4.724%
15	15.967	15.880	16.027	BB	1049540	13453877	77.19%	4.447%
16	16.919	16.830	16.987	BB	929151	12644771	72.55%	4.180%
17	17.806	17.723	17.878	VB	901911	12335576	70.78%	4.077%
18	18.639	18.590	18.727	BB	786911	11541380	66.22%	3.815%
19	19.422	19.353	19.497	BB	695978	10438103	59.89%	3.450%
20	20.162	20.110	20.253	BV	577405	9085745	52.13%	3.003%
21	20.920	20.860	21.030	BB	437337	8347689	47.90%	2.759%
22	21.873	21.775	21.985	BB	321349	8014744	45.99%	2.649%
Sum of corrected areas:						302535810		

Aliphatic EPH 100725.M Tue Oct 07 09:55:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069938.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:03
 Operator : YP/AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 07 09:27:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.649	8639976	53.435 ug/ml
Spiked Amount 50.000		Recovery =	106.87%
12) S 1-chlorooctadecane (S...	13.083	6744188	53.951 ug/ml
Spiked Amount 50.000		Recovery =	107.90%
Target Compounds			
1) T n-Nonane (C9)	3.384	6696096	51.784 ug/ml
2) T n-Decane (C10)	4.457	7033350	52.008 ug/ml
3) T A~Naphthalene (C11.7)	6.051	7918701	52.135 ug/ml
4) T n-Dodecane (C12)	6.480	7521297	52.411 ug/ml
5) T A~2-methylnaphthalene...	7.110	7871197	52.646 ug/ml
6) T n-Tetradecane (C14)	8.278	7874446	53.073 ug/ml
7) T n-Hexadecane (C16)	9.882	8368827	53.396 ug/ml
8) T n-Octadecane (C18)	11.327	8439359	53.410 ug/ml
10) T n-Eicosane (C20)	12.637	7941237	53.725 ug/ml
11) T n-Heneicosane (C21)	13.250	7684442	53.795 ug/ml
13) T n-Docosane (C22)	13.836	7552504	54.156 ug/ml
14) T n-Tetracosane (C24)	14.941	7307291	54.822 ug/ml
15) T n-Hexacosane (C26)	15.962	6889242	54.857 ug/ml
16) T n-Octacosane (C28)	16.912	6492320	54.987 ug/ml
17) T n-Tricontane (C30)	17.800	6323170	54.888 ug/ml
18) T n-Dotriacontane (C32)	18.634	5890021	54.597 ug/ml
19) T n-Tetratriacontane (C34)	19.418	5271042	53.866 ug/ml
20) T n-Hexatriacontane (C36)	20.157	4546558	53.013 ug/ml
21) T n-Octatriacontane (C38)	20.915	4117294	52.520 ug/ml
22) T n-Tetracontane (C40)	21.868	3935168	52.363 ug/ml

(f)=RT Delta > 1/2 Window

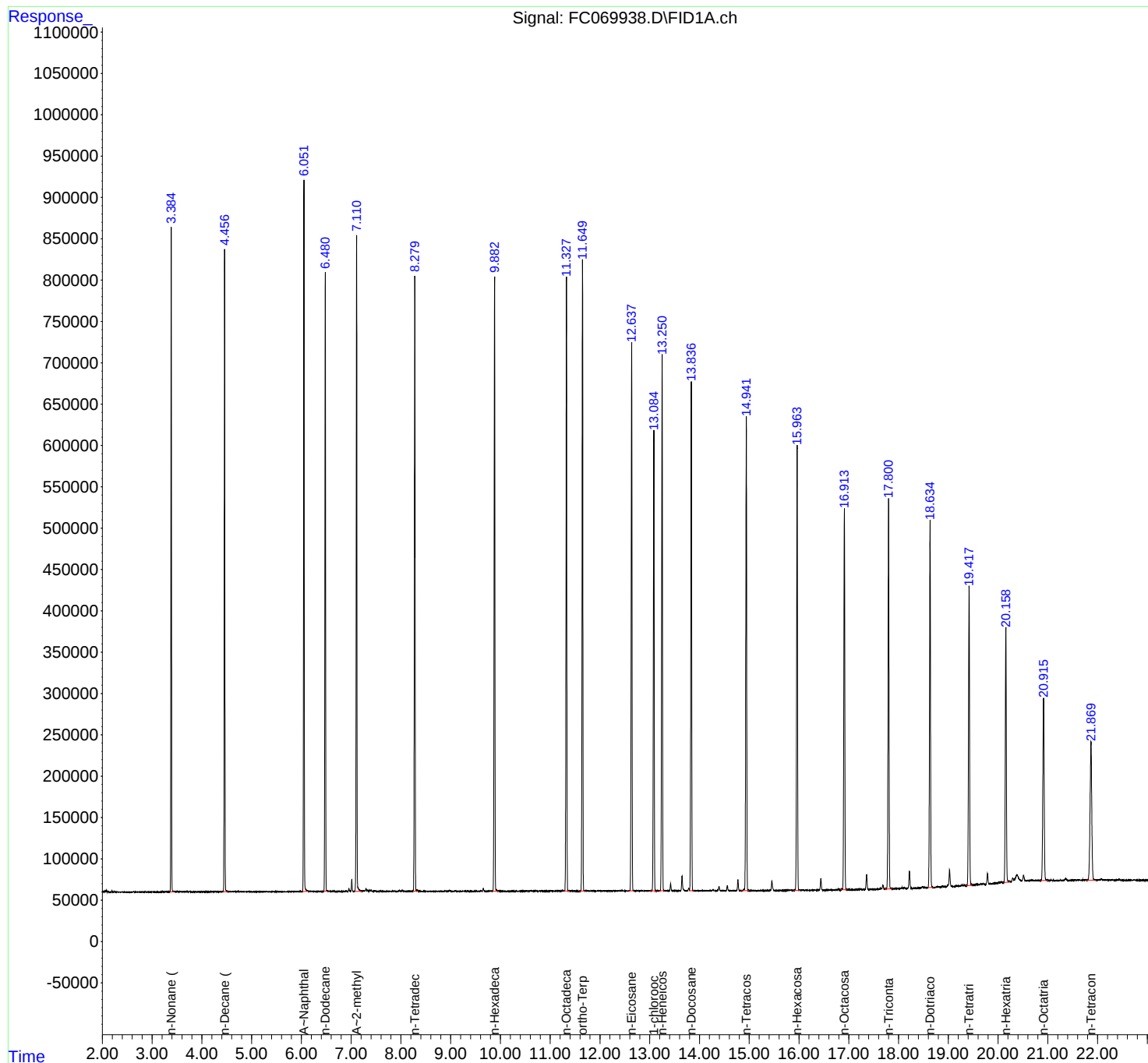
(m)=manual int.

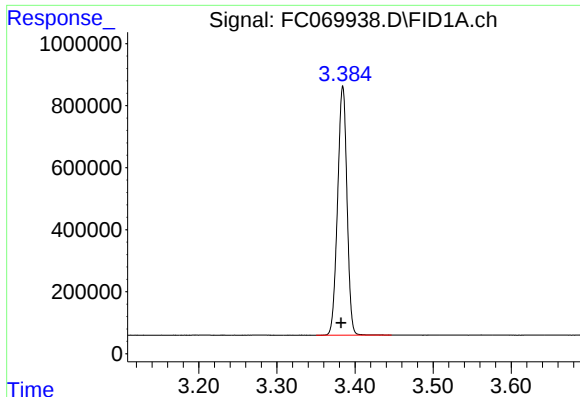
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069938.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 17:03
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 07 09:27:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

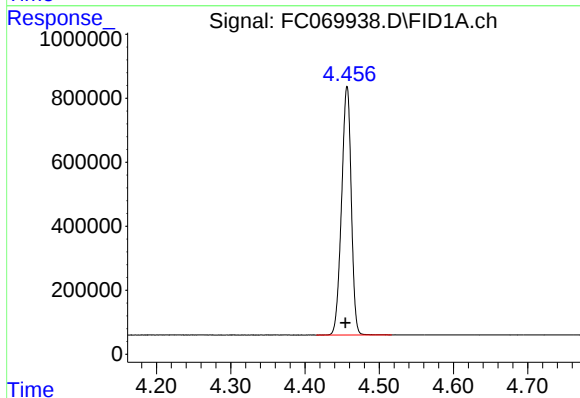




#1 n-Nonane (C9)

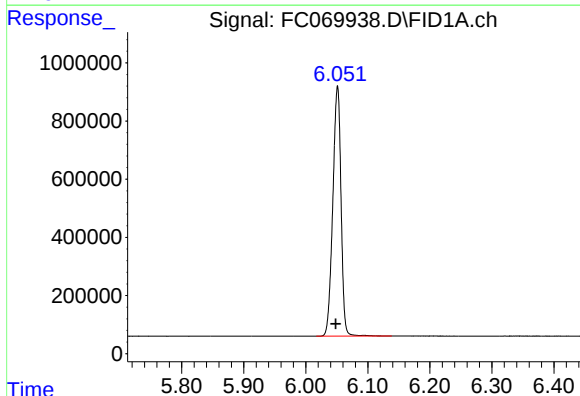
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 6696096
Conc: 51.78 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



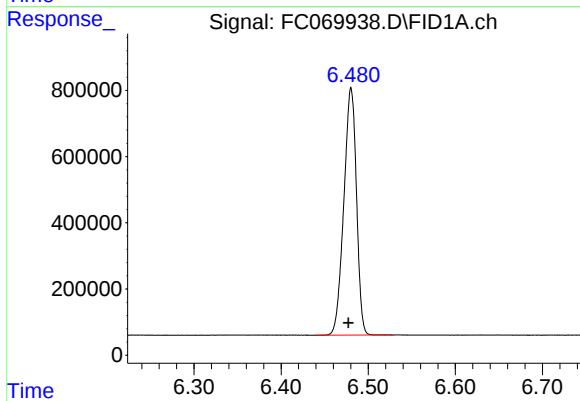
#2 n-Decane (C10)

R.T.: 4.457 min
Delta R.T.: 0.002 min
Response: 7033350
Conc: 52.01 ug/ml



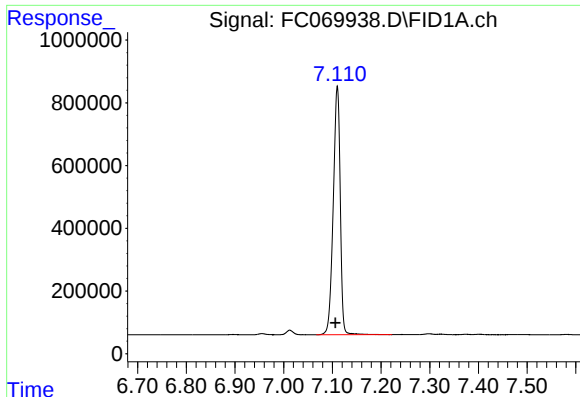
#3 A~Naphthalene (C11.7)

R.T.: 6.051 min
Delta R.T.: 0.003 min
Response: 7918701
Conc: 52.13 ug/ml



#4 n-Dodecane (C12)

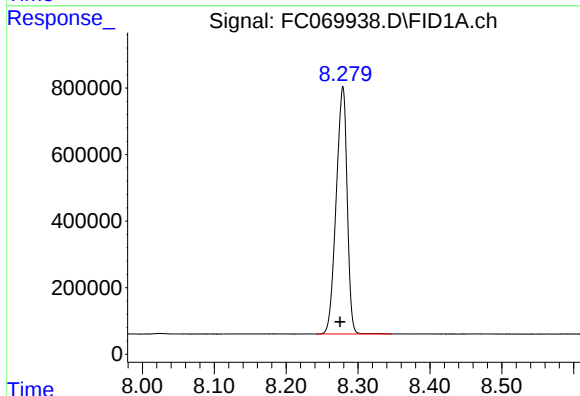
R.T.: 6.480 min
Delta R.T.: 0.003 min
Response: 7521297
Conc: 52.41 ug/ml



#5 A~2-methylnaphthalene (C12.89)

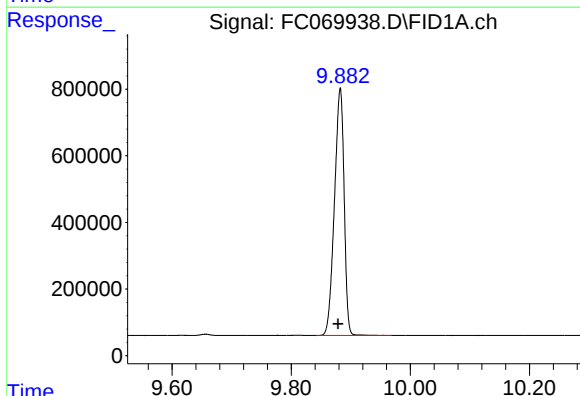
R.T.: 7.110 min
Delta R.T.: 0.004 min
Response: 7871197
Conc: 52.65 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



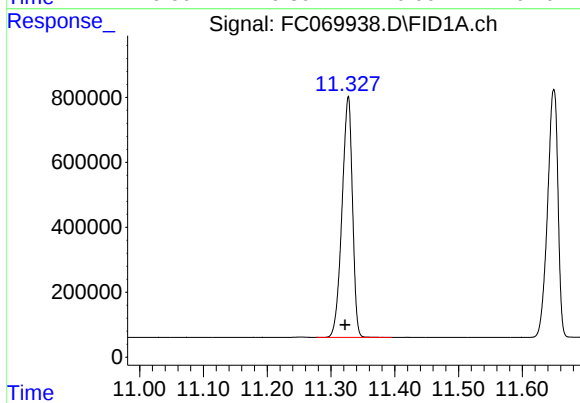
#6 n-Tetradecane (C14)

R.T.: 8.278 min
Delta R.T.: 0.004 min
Response: 7874446
Conc: 53.07 ug/ml



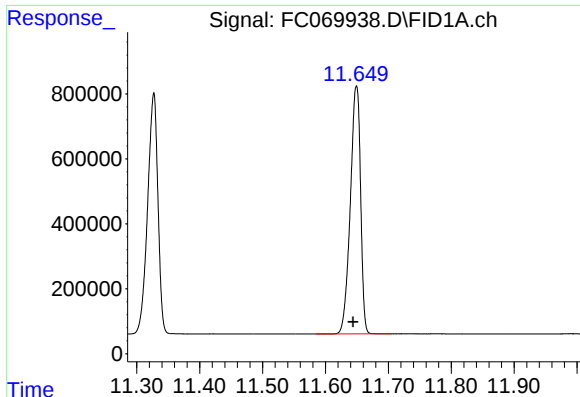
#7 n-Hexadecane (C16)

R.T.: 9.882 min
Delta R.T.: 0.004 min
Response: 8368827
Conc: 53.40 ug/ml



#8 n-Octadecane (C18)

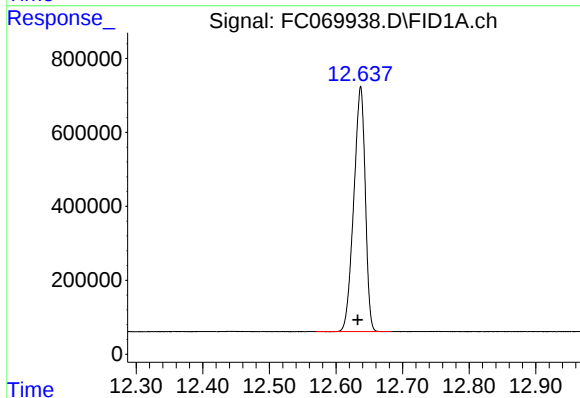
R.T.: 11.327 min
Delta R.T.: 0.005 min
Response: 8439359
Conc: 53.41 ug/ml



#9 ortho-Terphenyl (SURR)

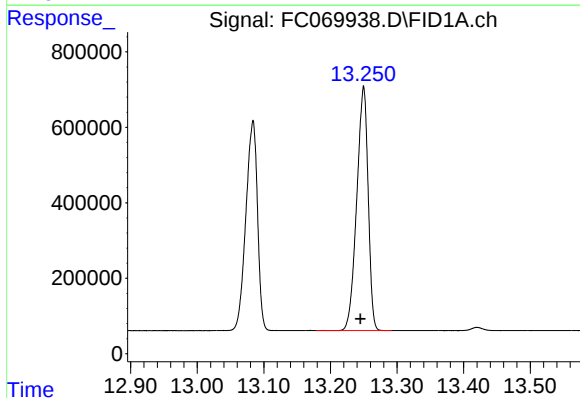
R.T.: 11.649 min
Delta R.T.: 0.005 min
Response: 8639976
Conc: 53.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



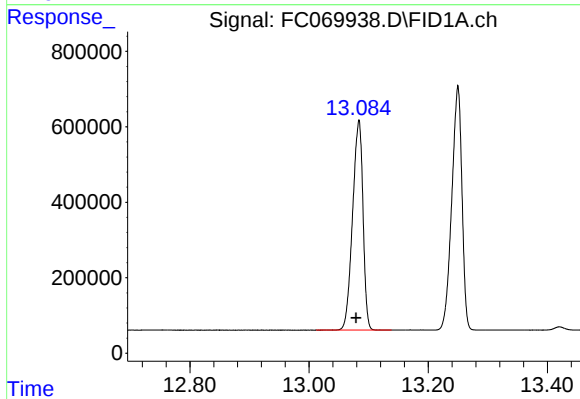
#10 n-Eicosane (C20)

R.T.: 12.637 min
Delta R.T.: 0.004 min
Response: 7941237
Conc: 53.72 ug/ml



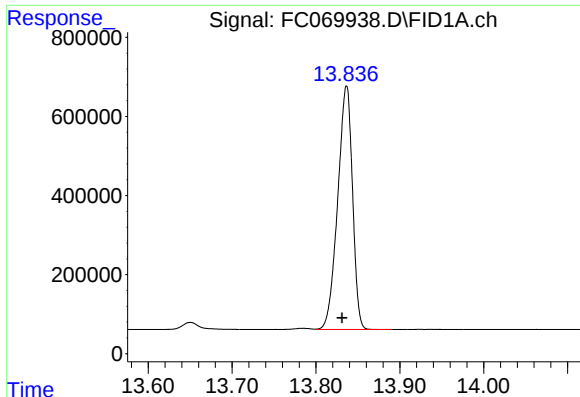
#11 n-Heneicosane (C21)

R.T.: 13.250 min
Delta R.T.: 0.004 min
Response: 7684442
Conc: 53.80 ug/ml



#12 1-chlorooctadecane (SURR)

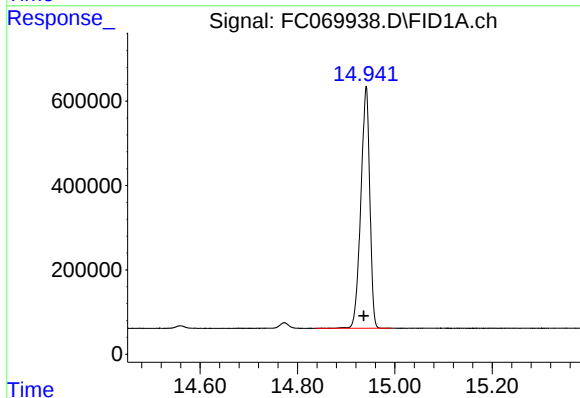
R.T.: 13.083 min
Delta R.T.: 0.004 min
Response: 6744188
Conc: 53.95 ug/ml



#13 n-Docosane (C22)

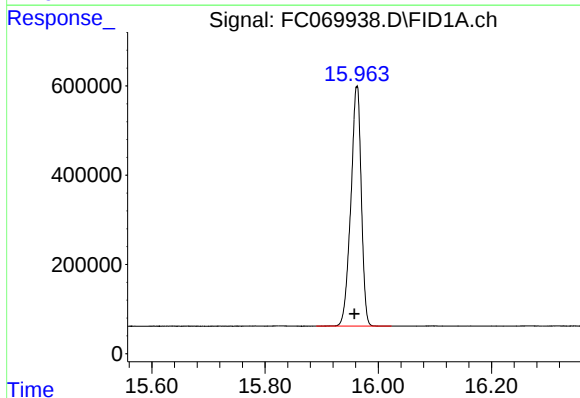
R.T.: 13.836 min
Delta R.T.: 0.005 min
Response: 7552504
Conc: 54.16 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



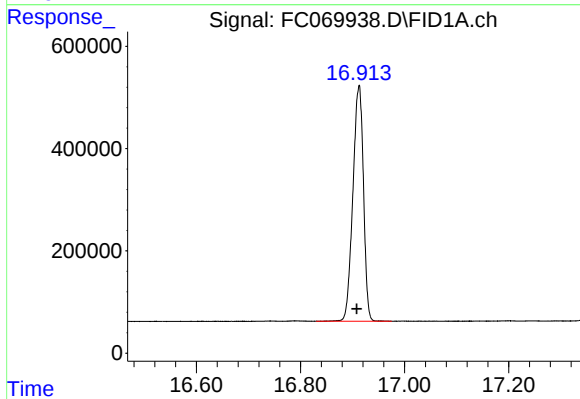
#14 n-Tetracosane (C24)

R.T.: 14.941 min
Delta R.T.: 0.005 min
Response: 7307291
Conc: 54.82 ug/ml



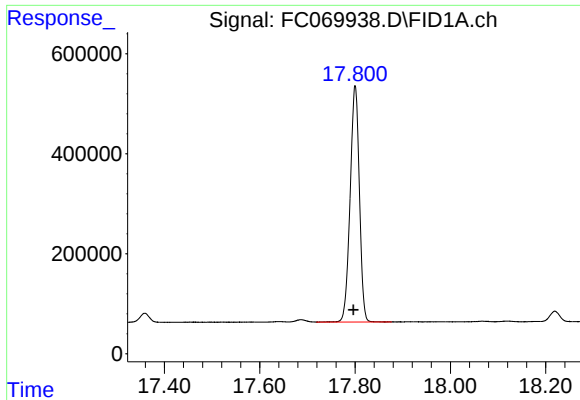
#15 n-Hexacosane (C26)

R.T.: 15.962 min
Delta R.T.: 0.004 min
Response: 6889242
Conc: 54.86 ug/ml



#16 n-Octacosane (C28)

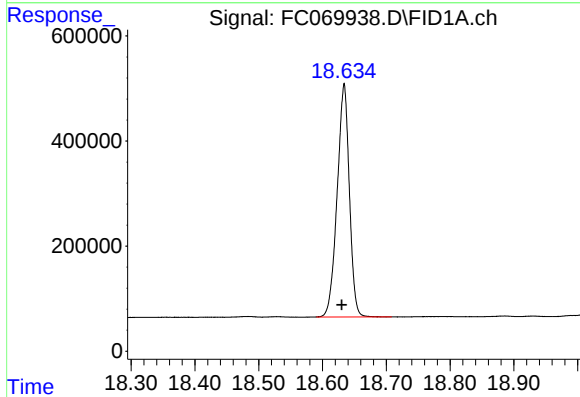
R.T.: 16.912 min
Delta R.T.: 0.004 min
Response: 6492320
Conc: 54.99 ug/ml



#17 n-Tricontane (C30)

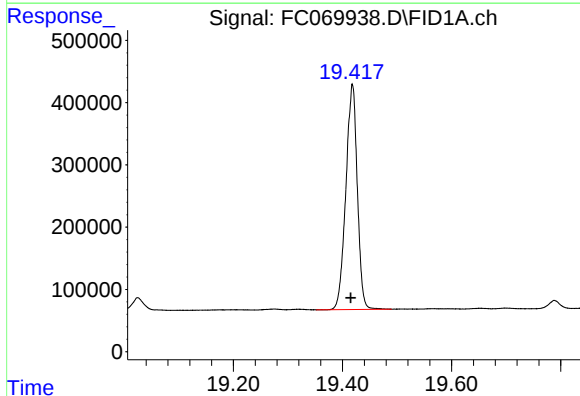
R.T.: 17.800 min
Delta R.T.: 0.003 min
Response: 6323170
Conc: 54.89 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



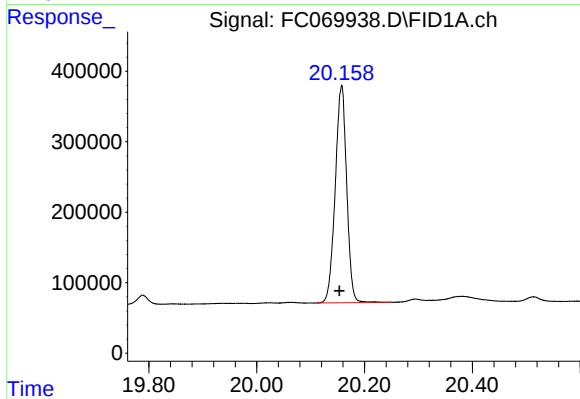
#18 n-Dotriacontane (C32)

R.T.: 18.634 min
Delta R.T.: 0.004 min
Response: 5890021
Conc: 54.60 ug/ml



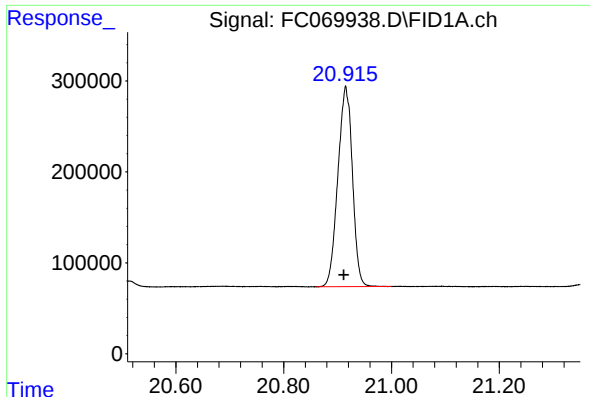
#19 n-Tetratriacontane (C34)

R.T.: 19.418 min
Delta R.T.: 0.003 min
Response: 5271042
Conc: 53.87 ug/ml



#20 n-Hexatriacontane (C36)

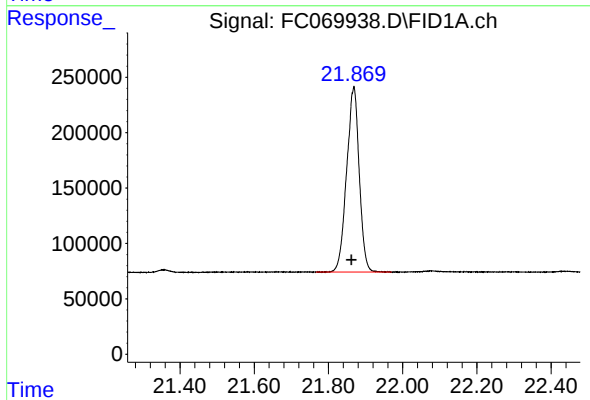
R.T.: 20.157 min
Delta R.T.: 0.004 min
Response: 4546558
Conc: 53.01 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.915 min
Delta R.T.: 0.004 min
Response: 4117294
Conc: 52.52 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.868 min
Delta R.T.: 0.006 min
Response: 3935168
Conc: 52.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069938.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:03
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.350	3.447	BB	801570	6696096	77.50%	4.433%
2	4.457	4.415	4.517	BB	779306	7033350	81.40%	4.656%
3	6.051	6.017	6.138	BB	866132	7918701	91.65%	5.242%
4	6.480	6.440	6.527	BB	748366	7521297	87.05%	4.979%
5	7.110	7.067	7.222	BV	794441	7871197	91.10%	5.211%
6	8.279	8.242	8.347	BB	744209	7874446	91.14%	5.213%
7	9.882	9.842	9.968	BB	741300	8368827	96.86%	5.540%
8	11.327	11.277	11.395	BB	742837	8439359	97.68%	5.587%
9	11.649	11.585	11.705	BB	764057	8639976	100.00%	5.720%
10	12.637	12.570	12.683	BB	664039	7941237	91.91%	5.257%
11	13.083	13.012	13.138	BB	556995	6744188	78.06%	4.465%
12	13.250	13.178	13.292	BB	650441	7684442	88.94%	5.087%
13	13.836	13.800	13.890	VB	618103	7552504	87.41%	5.000%
14	14.941	14.838	14.993	BB	570910	7307291	84.58%	4.837%
15	15.962	15.890	16.023	BB	537205	6889242	79.74%	4.561%
16	16.912	16.830	16.975	BB	458574	6492320	75.14%	4.298%
17	17.800	17.718	17.877	PB	472780	6323170	73.19%	4.186%
18	18.634	18.590	18.708	BB	443374	5890021	68.17%	3.899%
19	19.418	19.352	19.490	BB	361847	5271042	61.01%	3.489%
20	20.157	20.110	20.250	BB	306826	4546558	52.62%	3.010%
21	20.915	20.860	21.000	BB	220293	4117294	47.65%	2.726%
22	21.868	21.767	21.970	BB	167406	3935168	45.55%	2.605%
Sum of corrected areas:						151057725		

Aliphatic EPH 100725.M Tue Oct 07 09:56:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069939.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:50
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 07 09:28:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.644	3233829	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.079	2500104	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.382	2586179	20.000 ug/ml
2) T n-Decane (C10)	4.455	2704739	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.048	3037797	20.000 ug/ml
4) T n-Dodecane (C12)	6.477	2870146	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.106	2990239	20.000 ug/ml
6) T n-Tetradecane (C14)	8.275	2967400	20.000 ug/ml
7) T n-Hexadecane (C16)	9.879	3134629	20.000 ug/ml
8) T n-Octadecane (C18)	11.322	3160241	20.000 ug/ml
10) T n-Eicosane (C20)	12.633	2956263	20.000 ug/ml
11) T n-Heneicosane (C21)	13.245	2856934	20.000 ug/ml
13) T n-Docosane (C22)	13.831	2789185	20.000 ug/ml
14) T n-Tetracosane (C24)	14.936	2665846	20.000 ug/ml
15) T n-Hexacosane (C26)	15.958	2511687	20.000 ug/ml
16) T n-Octacosane (C28)	16.908	2361381	20.000 ug/ml
17) T n-Tricontane (C30)	17.797	2304010	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.630	2157650	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.415	1957095	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.153	1715254	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.912	1567899	20.000 ug/ml
22) T n-Tetracontane (C40)	21.862	1503047	20.000 ug/ml

(f)=RT Delta > 1/2 Window

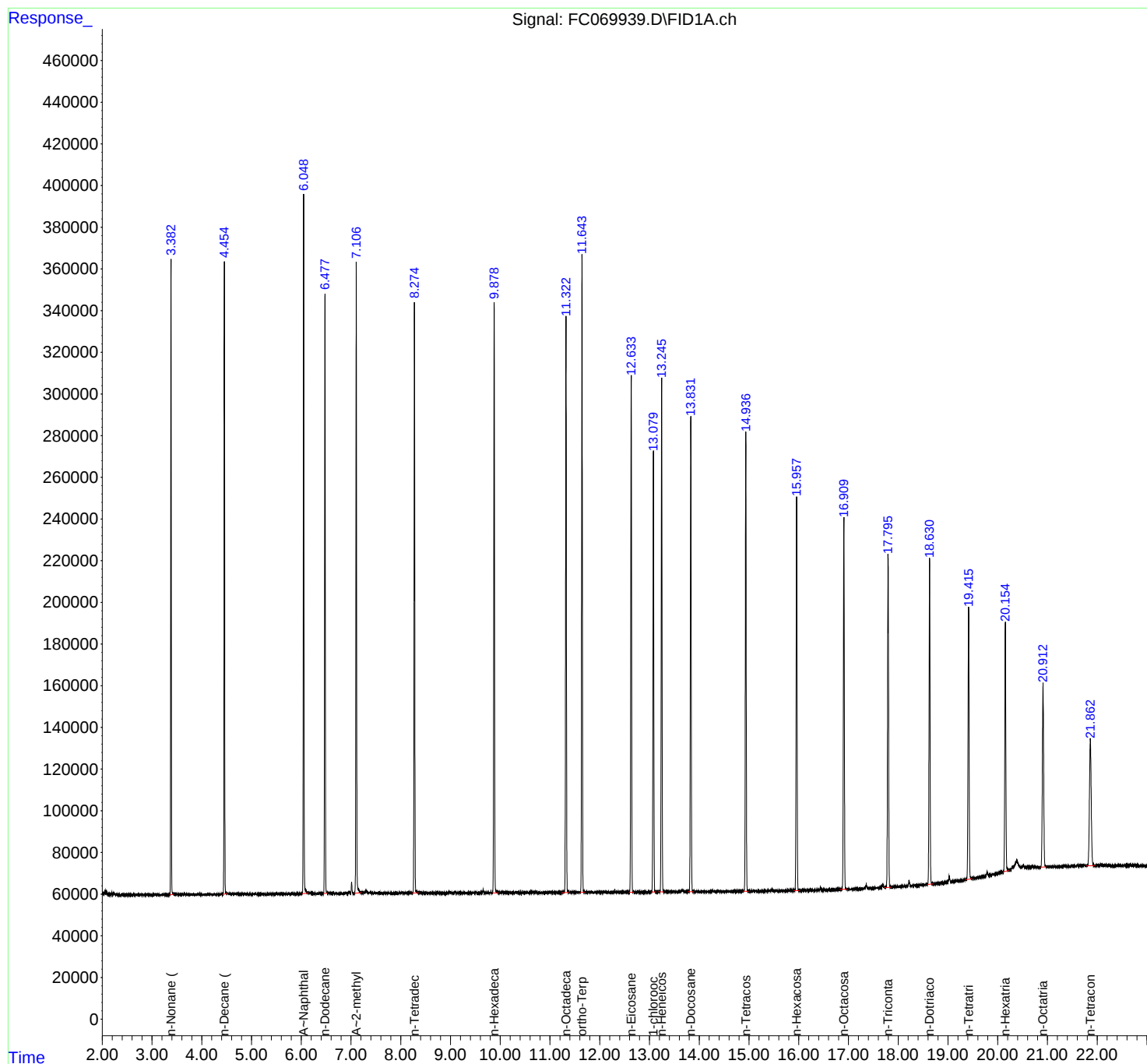
(m)=manual int.

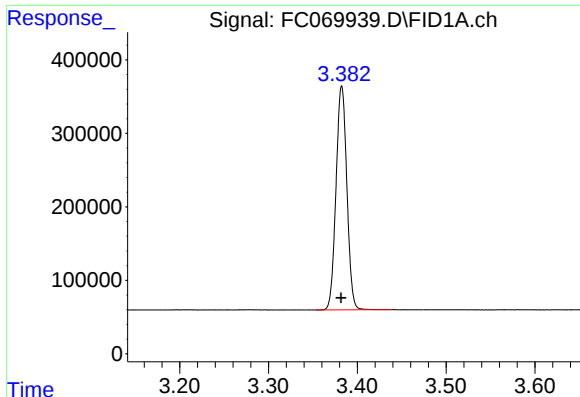
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069939.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 17:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 07 09:28:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

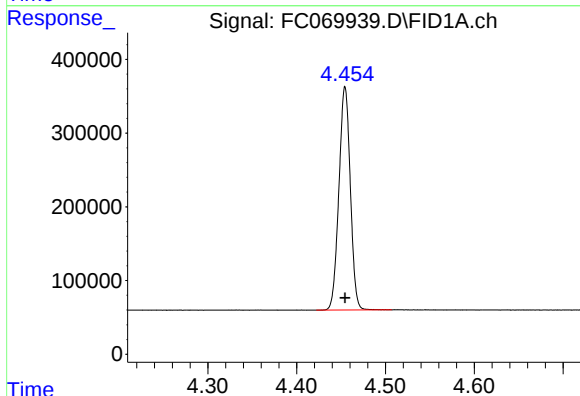




#1 n-Nonane (C9)

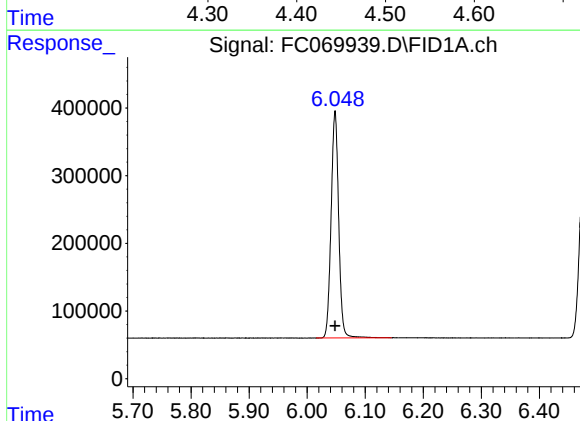
R.T.: 3.382 min
Delta R.T.: 0.000 min
Response: 2586179
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



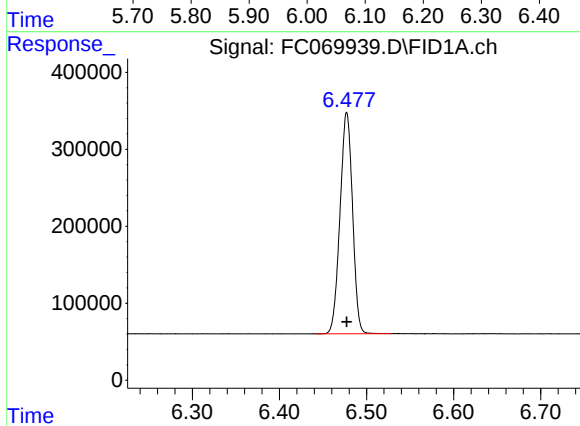
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: 0.000 min
Response: 2704739
Conc: 20.00 ug/ml



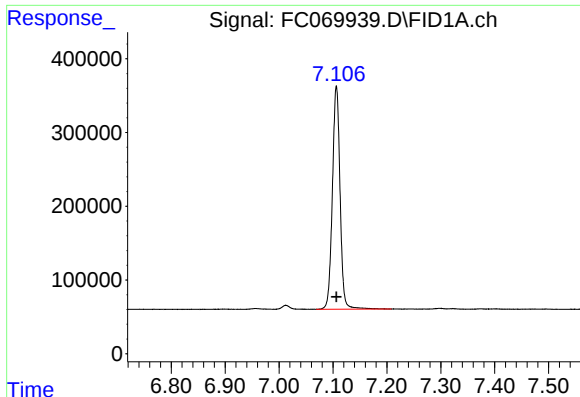
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 3037797
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

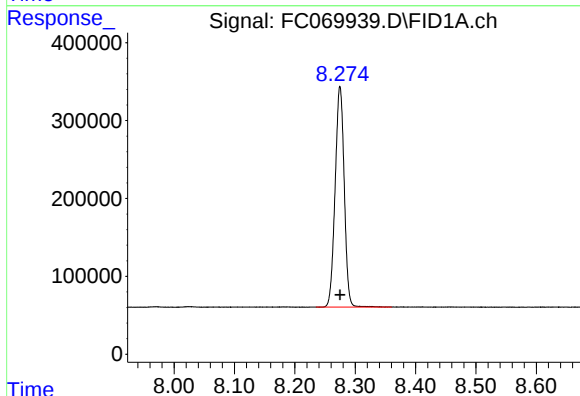
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 2870146
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

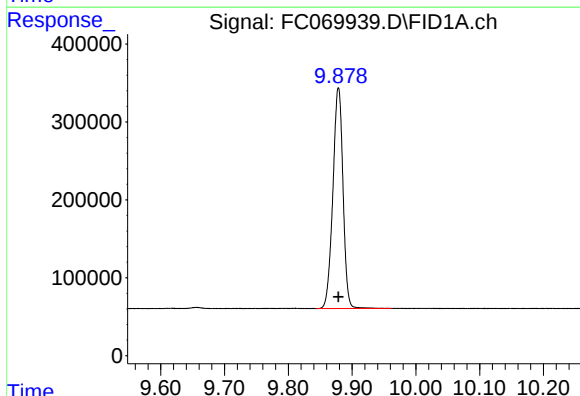
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 2990239
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



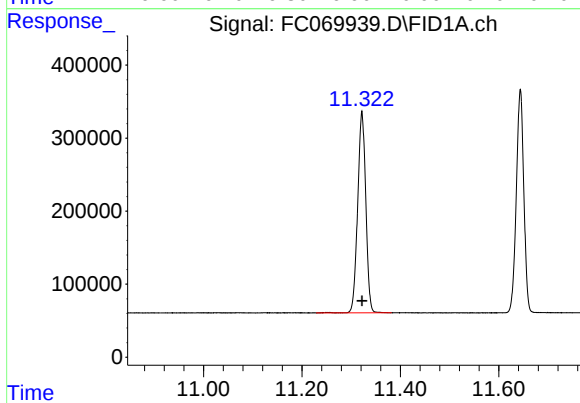
#6 n-Tetradecane (C14)

R.T.: 8.275 min
Delta R.T.: 0.000 min
Response: 2967400
Conc: 20.00 ug/ml



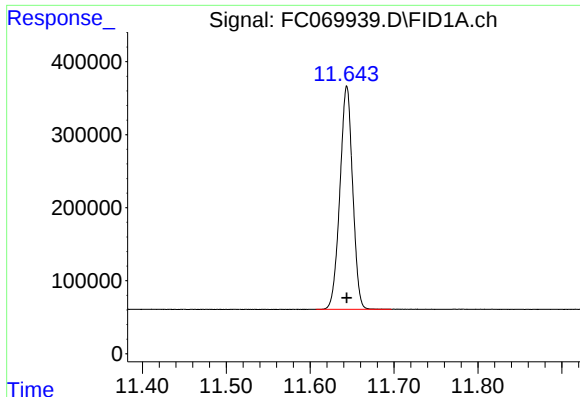
#7 n-Hexadecane (C16)

R.T.: 9.879 min
Delta R.T.: 0.000 min
Response: 3134629
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

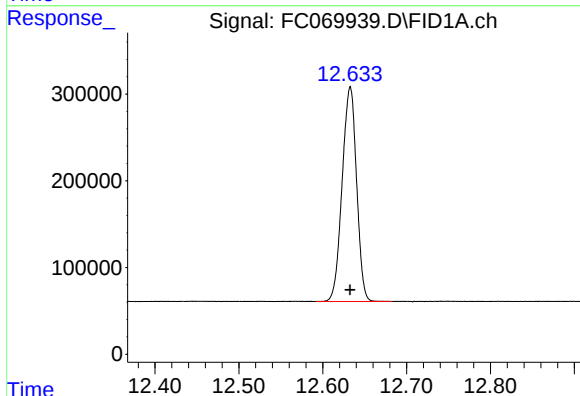
R.T.: 11.322 min
Delta R.T.: 0.000 min
Response: 3160241
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

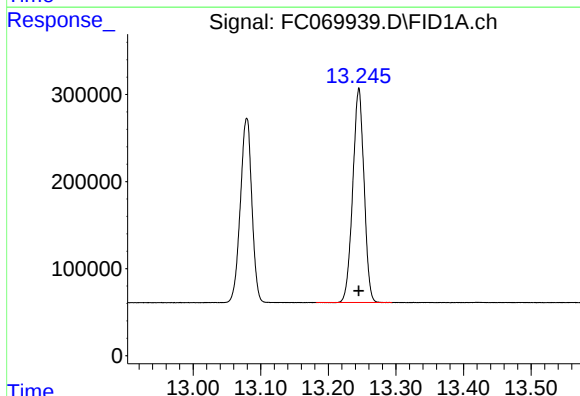
R.T.: 11.644 min
Delta R.T.: 0.000 min
Response: 3233829
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



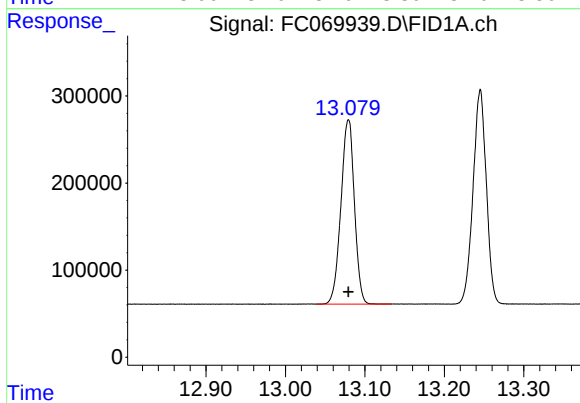
#10 n-Eicosane (C20)

R.T.: 12.633 min
Delta R.T.: 0.000 min
Response: 2956263
Conc: 20.00 ug/ml



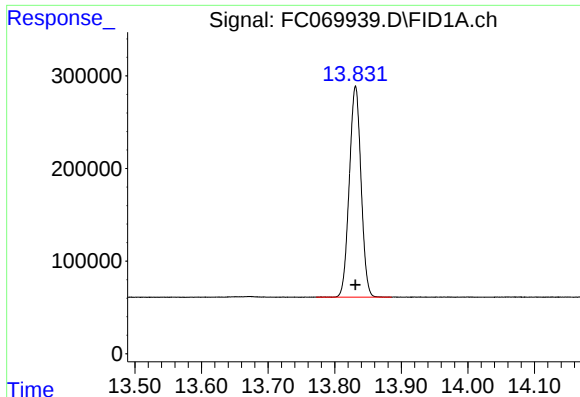
#11 n-Heneicosane (C21)

R.T.: 13.245 min
Delta R.T.: 0.000 min
Response: 2856934
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

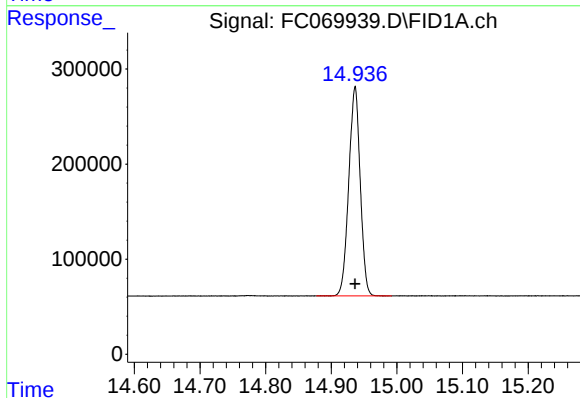
R.T.: 13.079 min
Delta R.T.: 0.000 min
Response: 2500104
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

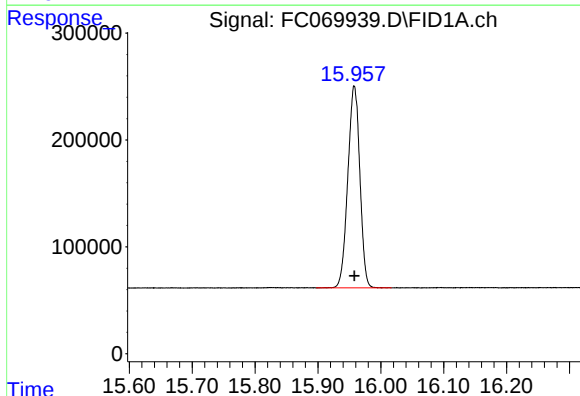
R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 2789185
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



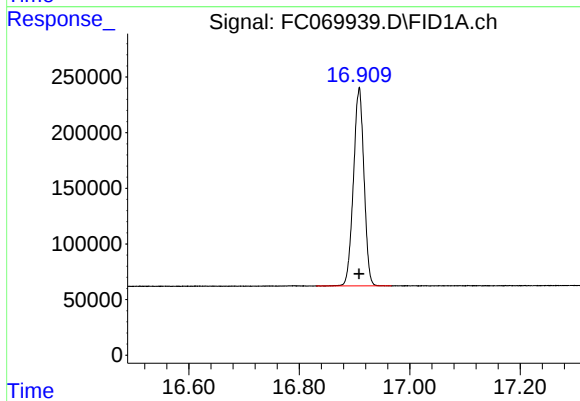
#14 n-Tetracosane (C24)

R.T.: 14.936 min
Delta R.T.: 0.000 min
Response: 2665846
Conc: 20.00 ug/ml



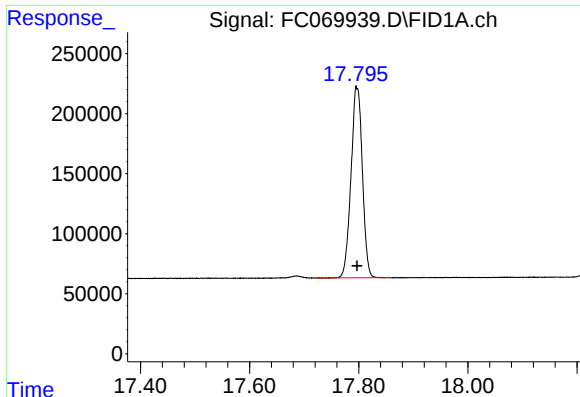
#15 n-Hexacosane (C26)

R.T.: 15.958 min
Delta R.T.: 0.000 min
Response: 2511687
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

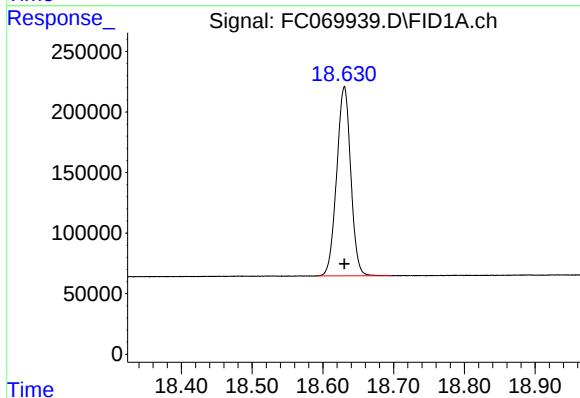
R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 2361381
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

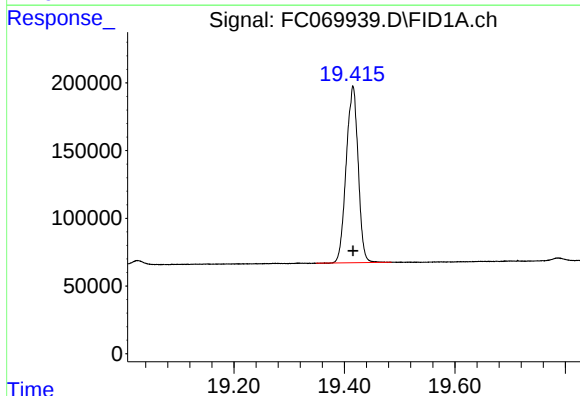
R.T.: 17.797 min
Delta R.T.: 0.000 min
Response: 2304010
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



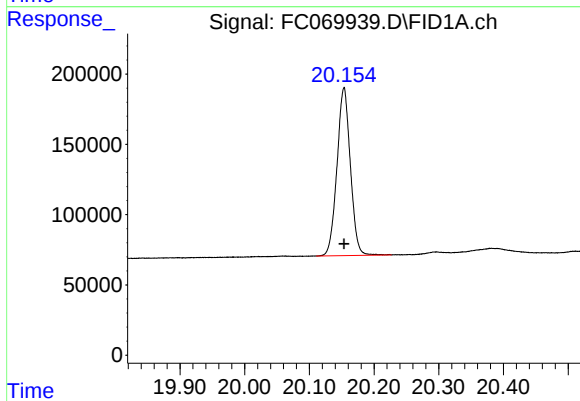
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: 0.000 min
Response: 2157650
Conc: 20.00 ug/ml



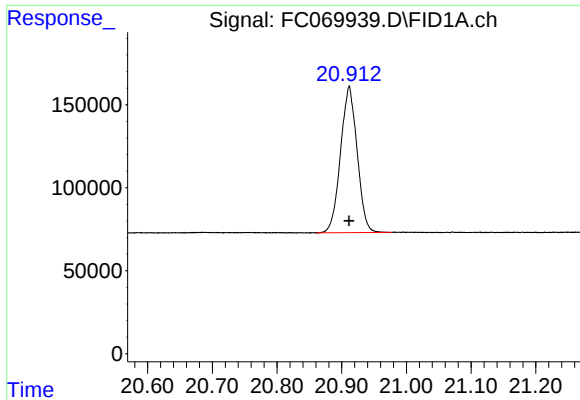
#19 n-Tetratriacontane (C34)

R.T.: 19.415 min
Delta R.T.: 0.000 min
Response: 1957095
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

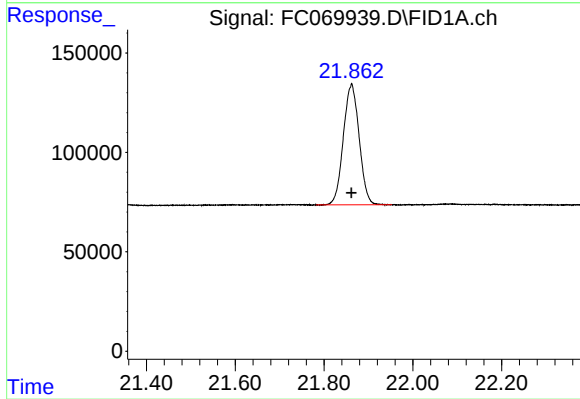
R.T.: 20.153 min
Delta R.T.: 0.000 min
Response: 1715254
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.912 min
Delta R.T.: 0.000 min
Response: 1567899
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.862 min
Delta R.T.: 0.000 min
Response: 1503047
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069939.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:50
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.383	3.354	3.439	BB	304942	2586179	79.97%	4.575%
2	4.455	4.422	4.507	BB	303233	2704739	83.64%	4.784%
3	6.048	6.015	6.145	BB	336136	3037797	93.94%	5.374%
4	6.477	6.442	6.529	BB	288019	2870146	88.75%	5.077%
5	7.106	7.069	7.209	BB	302692	2990239	92.47%	5.290%
6	8.275	8.235	8.360	BB	283402	2967400	91.76%	5.249%
7	9.879	9.844	9.962	BB	283622	3134629	96.93%	5.545%
8	11.322	11.229	11.382	BB	275975	3160241	97.72%	5.590%
9	11.644	11.607	11.697	BB	306418	3233829	100.00%	5.720%
10	12.633	12.592	12.682	BB	247337	2956263	91.42%	5.229%
11	13.079	13.039	13.134	BB	211975	2500104	77.31%	4.422%
12	13.245	13.182	13.294	BB	247074	2856934	88.35%	5.054%
13	13.831	13.772	13.885	BB	228326	2789185	86.25%	4.934%
14	14.936	14.877	14.992	BB	219421	2665846	82.44%	4.716%
15	15.958	15.897	16.017	BB	189463	2511687	77.67%	4.443%
16	16.908	16.830	16.967	BB	179015	2361381	73.02%	4.177%
17	17.797	17.722	17.860	BB	157250	2304010	71.25%	4.076%
18	18.630	18.590	18.697	BB	156475	2157650	66.72%	3.817%
19	19.415	19.349	19.485	BB	130941	1957095	60.52%	3.462%
20	20.153	20.110	20.227	BB	119849	1715254	53.04%	3.034%
21	20.912	20.860	20.977	BB	88544	1567899	48.48%	2.773%
22	21.862	21.782	21.952	BB	61121	1503047	46.48%	2.659%
Sum of corrected areas:							56531551	

Aliphatic EPH 100725.M Tue Oct 07 09:56:50 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069940.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 18:35
 Operator : YP/AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/07/2025
 Supervised By :mohammad ahmed 10/08/2025

Integration File: autoint1.e
 Quant Time: Oct 07 09:28:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.643	1801769	11.143 ug/ml
Spiked Amount 50.000		Recovery =	22.29%
12) S 1-chlorooctadecane (S...	13.078	1388999	11.112 ug/ml
Spiked Amount 50.000		Recovery =	22.22%
Target Compounds			
1) T n-Nonane (C9)	3.383	1405419	10.869 ug/ml
2) T n-Decane (C10)	4.454	1465951	10.840 ug/ml
3) T A~Naphthalene (C11.7)	6.048	1651182	10.871 ug/ml
4) T n-Dodecane (C12)	6.477	1556658	10.847 ug/ml
5) T A~2-methylnaphthalene...	7.106	1621428	10.845 ug/ml
6) T n-Tetradecane (C14)	8.274	1614710	10.883 ug/ml
7) T n-Hexadecane (C16)	9.877	1710570	10.914 ug/ml
8) T n-Octadecane (C18)	11.321	1731363	10.957 ug/ml
10) T n-Eicosane (C20)	12.632	1640453	11.098 ug/ml
11) T n-Heneicosane (C21)	13.244	1588969	11.124 ug/ml
13) T n-Docosane (C22)	13.831	1574378	11.289 ug/ml
14) T n-Tetracosane (C24)	14.935	1554075	11.659 ug/ml
15) T n-Hexacosane (C26)	15.957	1477357	11.764 ug/ml
16) T n-Octacosane (C28)	16.908	1413177	11.969 ug/ml
17) T n-Tricontane (C30)	17.796	1411056	12.249 ug/ml
18) T n-Dotriacontane (C32)	18.630	1341453	12.434 ug/ml
19) T n-Tetratriacontane (C34)	19.413	1188034	12.141 ug/mlm
20) T n-Hexatriacontane (C36)	20.154	1002661	11.691 ug/ml
21) T n-Octatriacontane (C38)	20.911	914301	11.663 ug/ml
22) T n-Tetracontane (C40)	21.862	866175	11.526 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069940.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 18:35
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

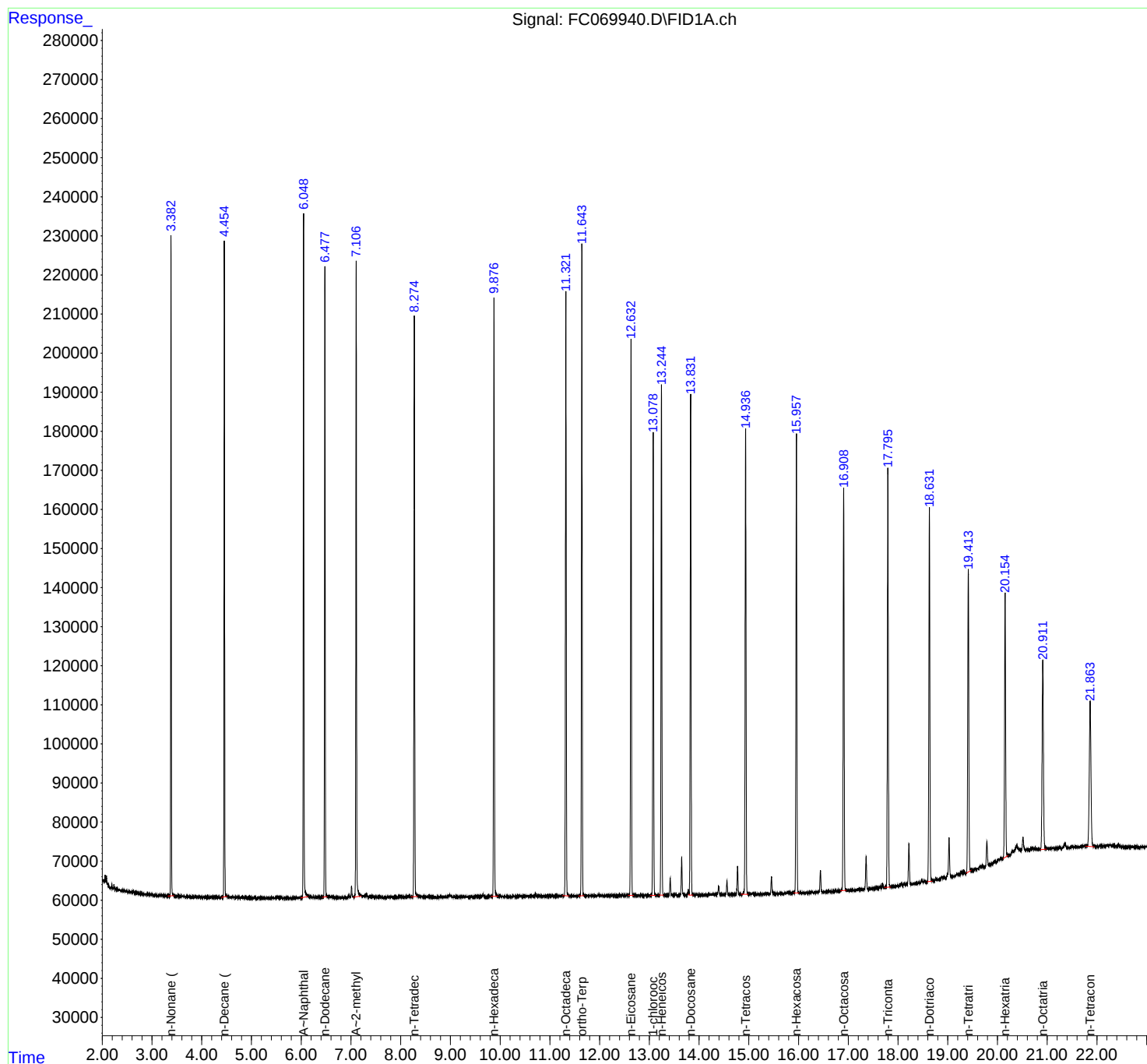
Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

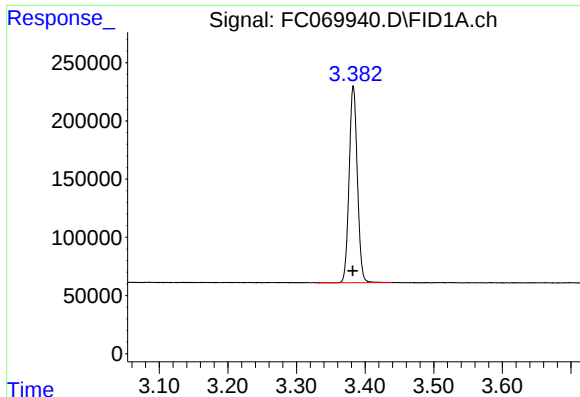
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025

Integration File: autoint1.e
Quant Time: Oct 07 09:28:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





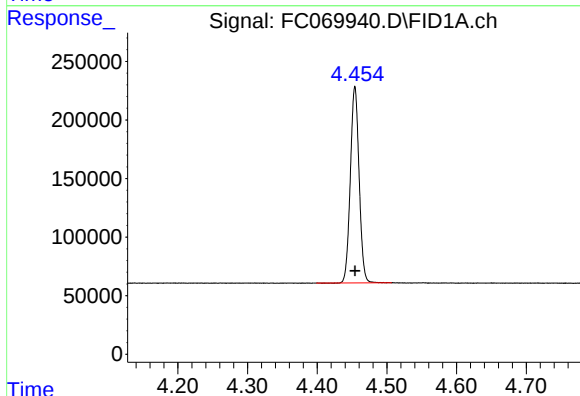
#1 n-Nonane (C9)

R.T.: 3.383 min
Delta R.T.: 0.000 min
Response: 1405419
Conc: 10.87 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

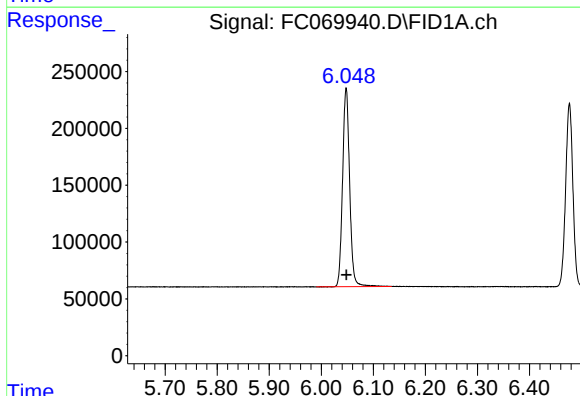
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



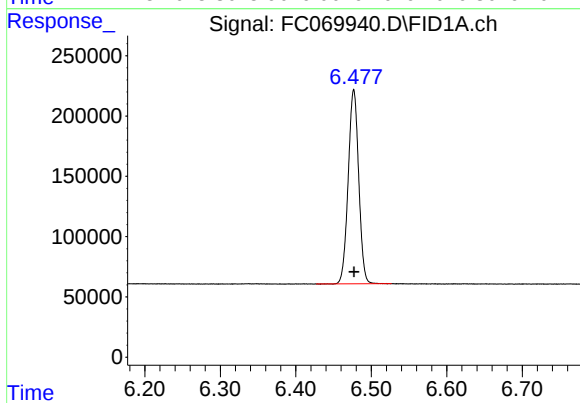
#2 n-Decane (C10)

R.T.: 4.454 min
Delta R.T.: 0.000 min
Response: 1465951
Conc: 10.84 ug/ml



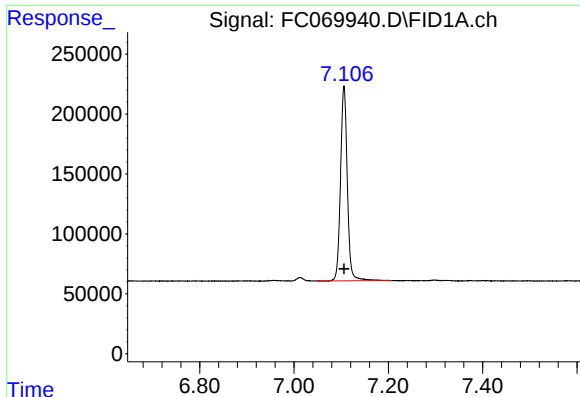
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 1651182
Conc: 10.87 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 1556658
Conc: 10.85 ug/ml



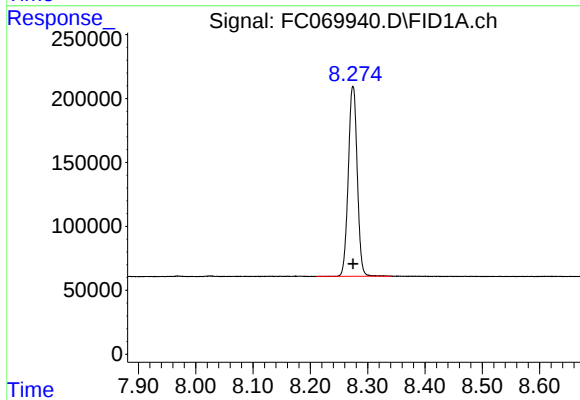
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 1621428
Conc: 10.84 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

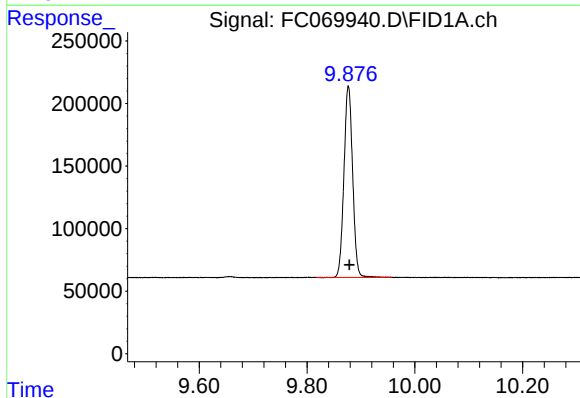
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



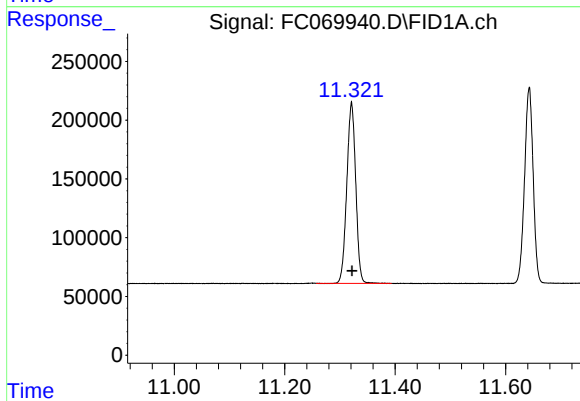
#6 n-Tetradecane (C14)

R.T.: 8.274 min
Delta R.T.: 0.000 min
Response: 1614710
Conc: 10.88 ug/ml



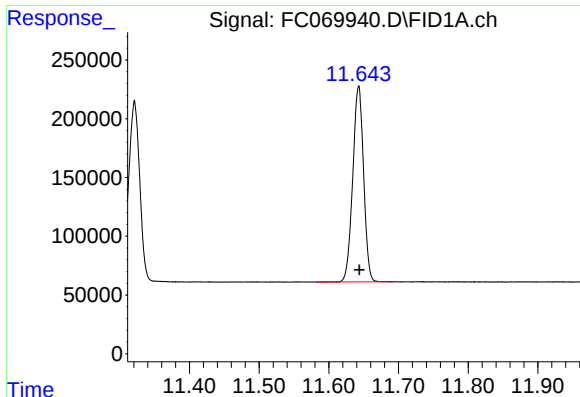
#7 n-Hexadecane (C16)

R.T.: 9.877 min
Delta R.T.: -0.002 min
Response: 1710570
Conc: 10.91 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.321 min
Delta R.T.: 0.000 min
Response: 1731363
Conc: 10.96 ug/ml



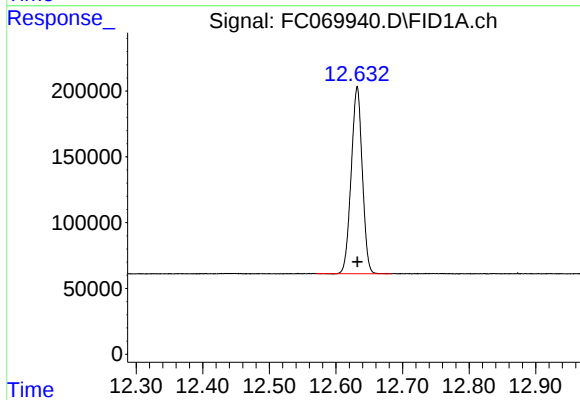
#9 ortho-Terphenyl (SURR)

R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 1801769
Conc: 11.14 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

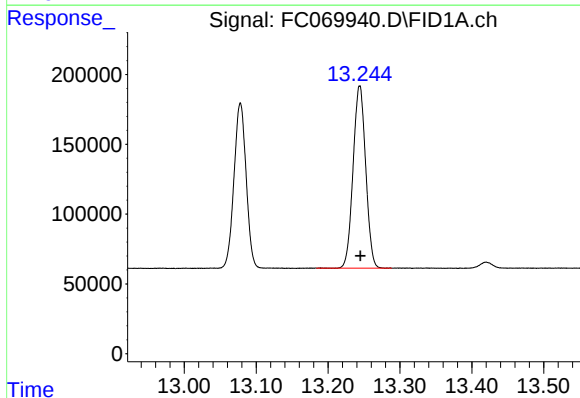
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



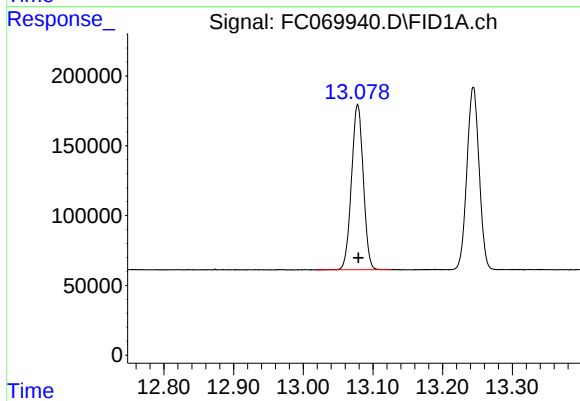
#10 n-Eicosane (C20)

R.T.: 12.632 min
Delta R.T.: 0.000 min
Response: 1640453
Conc: 11.10 ug/ml



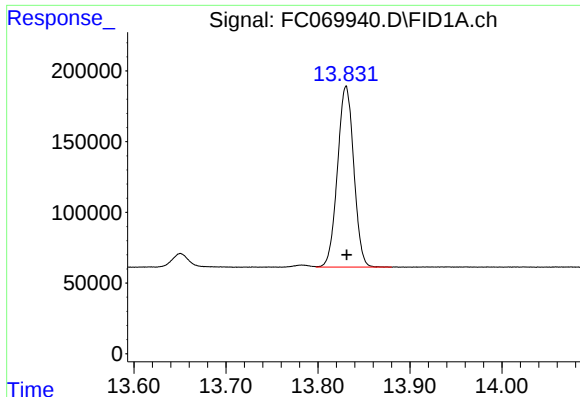
#11 n-Heneicosane (C21)

R.T.: 13.244 min
Delta R.T.: -0.001 min
Response: 1588969
Conc: 11.12 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.078 min
Delta R.T.: -0.001 min
Response: 1388999
Conc: 11.11 ug/ml



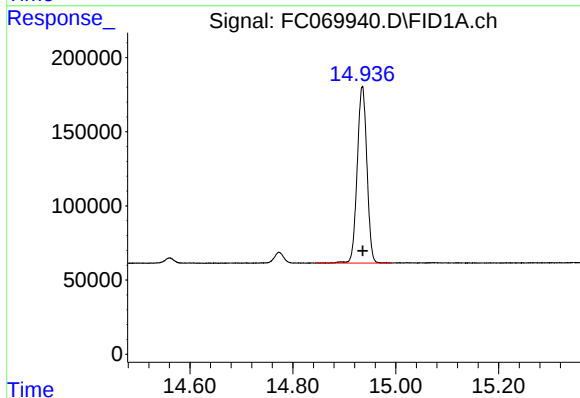
#13 n-Docosane (C22)

R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 1574378
Conc: 11.29 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

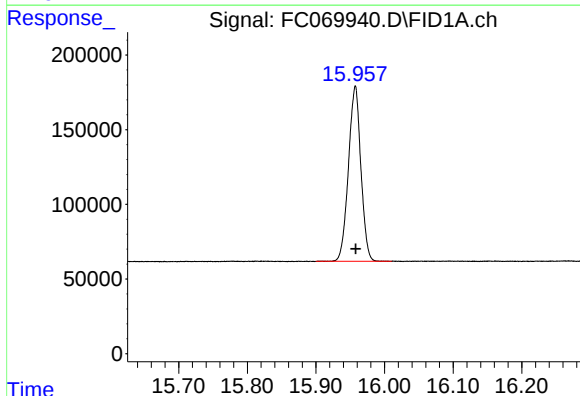
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



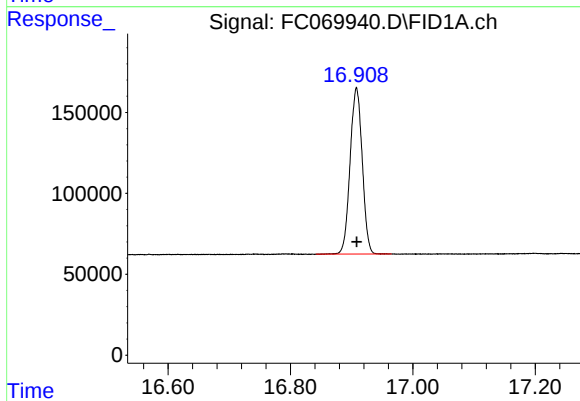
#14 n-Tetracosane (C24)

R.T.: 14.935 min
Delta R.T.: -0.001 min
Response: 1554075
Conc: 11.66 ug/ml



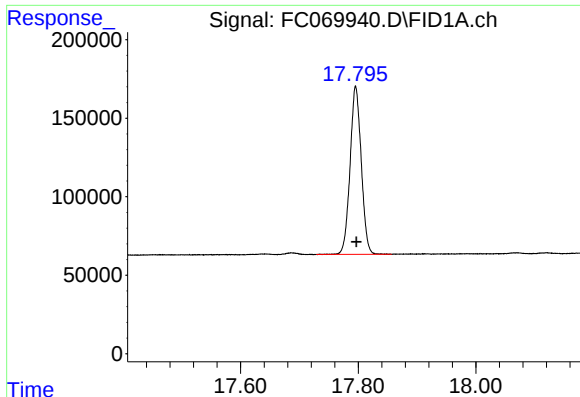
#15 n-Hexacosane (C26)

R.T.: 15.957 min
Delta R.T.: 0.000 min
Response: 1477357
Conc: 11.76 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 1413177
Conc: 11.97 ug/ml



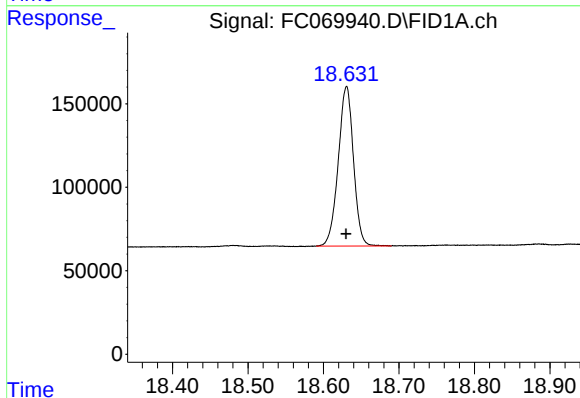
#17 n-Tricontane (C30)

R.T.: 17.796 min
Delta R.T.: -0.001 min
Response: 1411056
Conc: 12.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

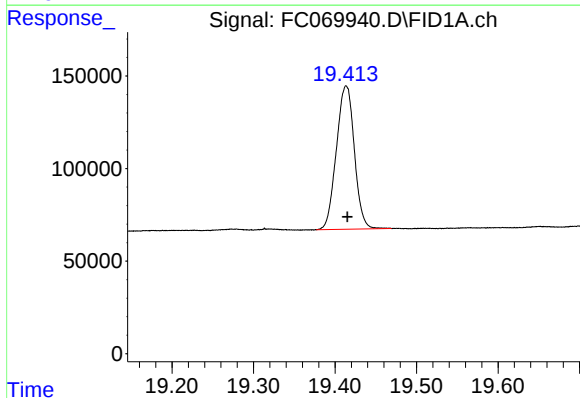
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



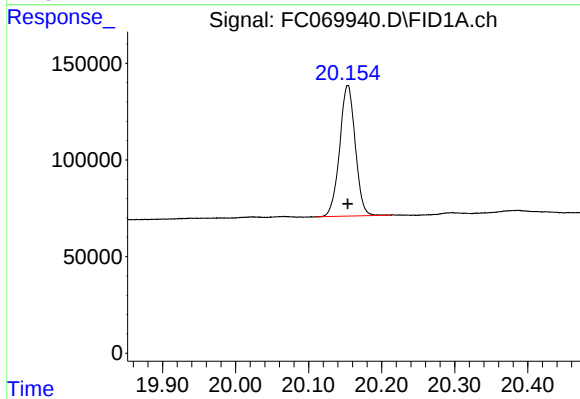
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: 0.000 min
Response: 1341453
Conc: 12.43 ug/ml



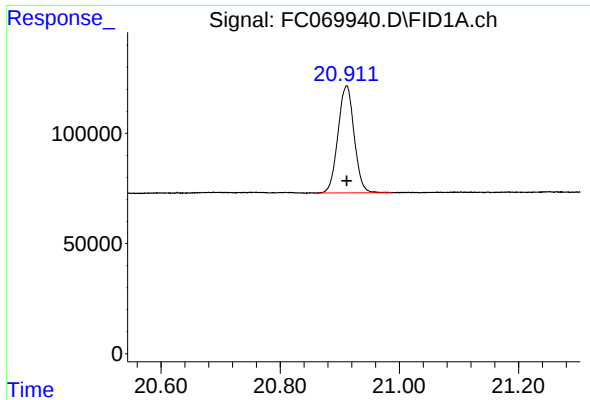
#19 n-Tetratriacontane (C34)

R.T.: 19.413 min
Delta R.T.: -0.002 min
Response: 1188034
Conc: 12.14 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.154 min
Delta R.T.: 0.000 min
Response: 1002661
Conc: 11.69 ug/ml



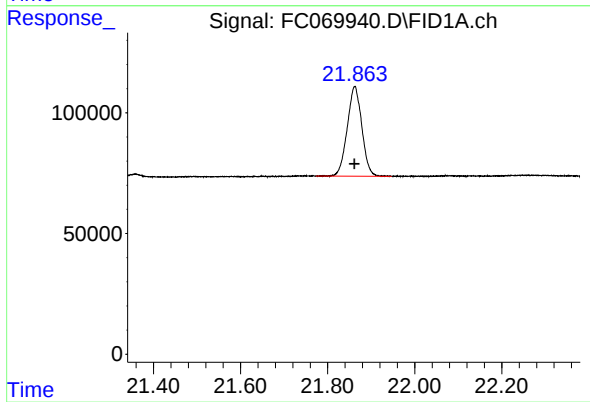
#21 n-Octatriacontane (C38)

R.T.: 20.911 min
Delta R.T.: 0.000 min
Response: 914301
Conc: 11.66 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



#22 n-Tetracontane (C40)

R.T.: 21.862 min
Delta R.T.: 0.000 min
Response: 866175
Conc: 11.53 ug/ml

rteres

Instrument :
FID_C
LabSampleId :
10 PPM ALIPHATIC HC STD4
Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725
Data File : FC069940.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 18:35
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.383	3.329	3.439	BB	168169	1405419	78.00%	4.403%
2	4.454	4.399	4.507	BB	167388	1465951	81.36%	4.593%
3	6.048	5.990	6.135	BB	175506	1651182	91.64%	5.173%
4	6.477	6.427	6.527	BB	161264	1556658	86.40%	4.877%
5	7.106	7.047	7.207	BB	162945	1621428	89.99%	5.080%
6	8.274	8.210	8.342	BB	148764	1614710	89.62%	5.059%
7	9.877	9.817	9.957	BB	152925	1710570	94.94%	5.360%
8	11.321	11.257	11.394	BB	153863	1731363	96.09%	5.425%
9	11.643	11.582	11.690	BB	166069	1801769	100.00%	5.645%
10	12.632	12.570	12.684	BB	142405	1640453	91.05%	5.140%
11	13.078	13.019	13.127	BB	118480	1388999	77.09%	4.352%
12	13.244	13.184	13.289	BB	130906	1588969	88.19%	4.979%
13	13.831	13.798	13.880	VB	127858	1574378	87.38%	4.933%
14	14.935	14.845	14.992	BB	118885	1554075	86.25%	4.869%
15	15.957	15.900	16.010	BB	117520	1477357	81.99%	4.629%
16	16.908	16.842	16.965	BB	102815	1413177	78.43%	4.428%
17	17.796	17.729	17.857	BB	107103	1411056	78.32%	4.421%
18	18.630	18.590	18.690	BB	95648	1341453	74.45%	4.203%
19	19.414	19.305	19.470	BB	77410	1184171	65.72%	3.710%
20	20.154	20.110	20.214	BB	67689	1002661	55.65%	3.142%
21	20.911	20.860	20.987	BB	48675	914301	50.74%	2.865%
22	21.862	21.774	21.947	BB	37160	866175	48.07%	2.714%
Sum of corrected areas:						31916275		

Aliphatic EPH 100725.M Tue Oct 07 09:57:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069941.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 19:19
 Operator : YP/AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 07 09:28:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.642	945317	5.846 ug/ml
Spiked Amount 50.000		Recovery =	11.69%
12) S 1-chlorooctadecane (S...	13.077	725060	5.800 ug/ml
Spiked Amount 50.000		Recovery =	11.60%
Target Compounds			
1) T n-Nonane (C9)	3.384	738481	5.711 ug/ml
2) T n-Decane (C10)	4.455	768097	5.680 ug/ml
3) T A~Naphthalene (C11.7)	6.048	858039	5.649 ug/ml
4) T n-Dodecane (C12)	6.477	814407	5.675 ug/ml
5) T A~2-methylnaphthalene...	7.106	839181	5.613 ug/ml
6) T n-Tetradecane (C14)	8.274	834987	5.628 ug/ml
7) T n-Hexadecane (C16)	9.877	890828	5.684 ug/ml
8) T n-Octadecane (C18)	11.320	907348	5.742 ug/ml
10) T n-Eicosane (C20)	12.631	864853	5.851 ug/ml
11) T n-Heneicosane (C21)	13.243	838040	5.867 ug/ml
13) T n-Docosane (C22)	13.831	859000	6.160 ug/ml
14) T n-Tetracosane (C24)	14.934	901906	6.766 ug/ml
15) T n-Hexacosane (C26)	15.957	890282	7.089 ug/ml
16) T n-Octacosane (C28)	16.906	879183	7.446 ug/ml
17) T n-Tricontane (C30)	17.796	882722	7.662 ug/ml
18) T n-Dotriacontane (C32)	18.628	847118	7.852 ug/ml
19) T n-Tetratriacontane (C34)	19.412	720186	7.360 ug/ml
20) T n-Hexatriacontane (C36)	20.152	578690	6.748 ug/ml
21) T n-Octatriacontane (C38)	20.910	500729	6.387 ug/ml
22) T n-Tetracontane (C40)	21.856	450964	6.001 ug/ml

(f)=RT Delta > 1/2 Window

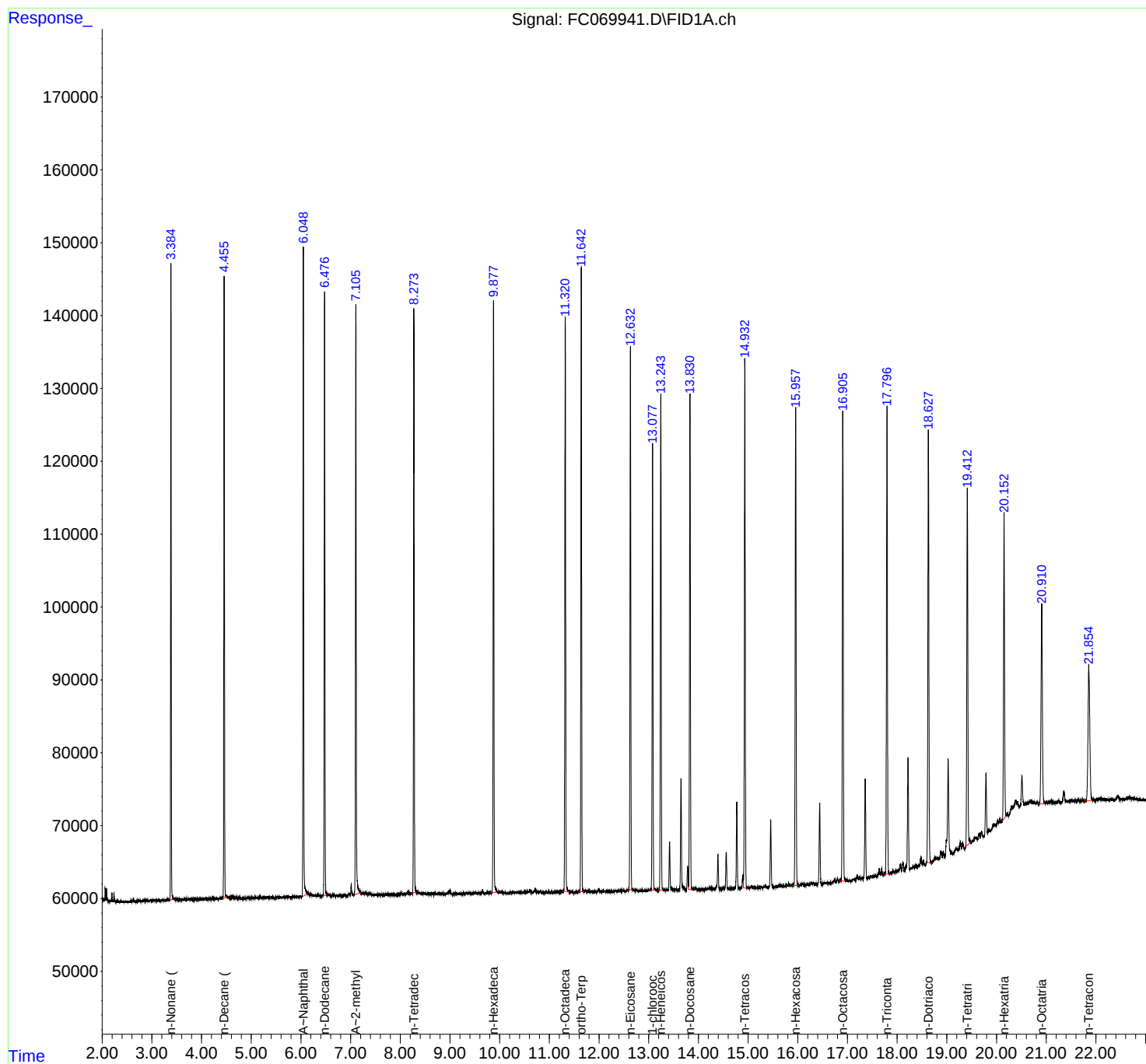
(m)=manual int.

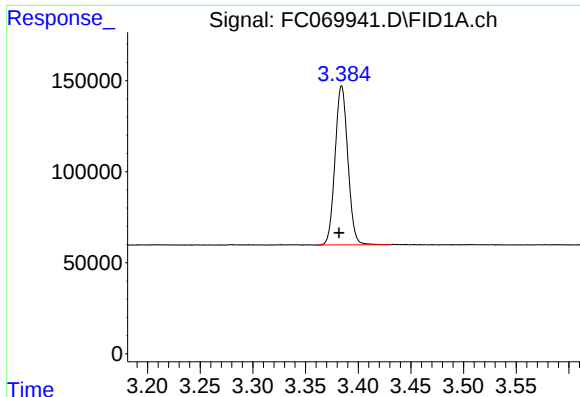
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069941.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 19:19
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 07 09:28:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

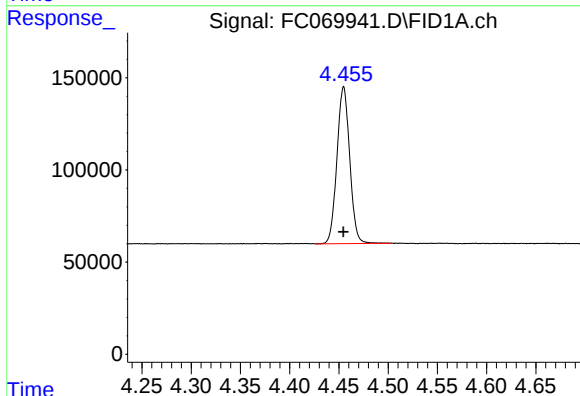




#1 n-Nonane (C9)

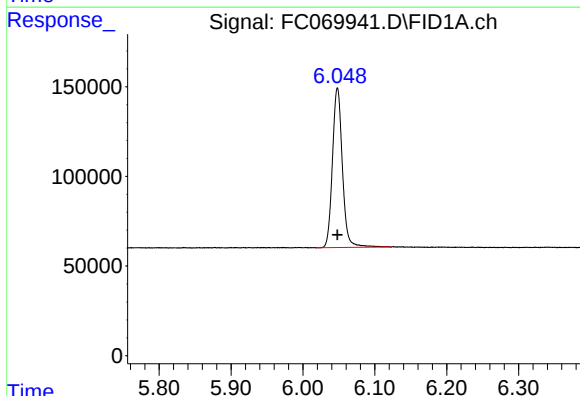
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 738481
Conc: 5.71 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



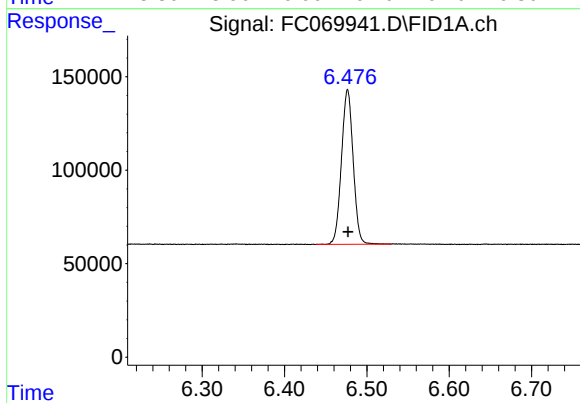
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: 0.000 min
Response: 768097
Conc: 5.68 ug/ml



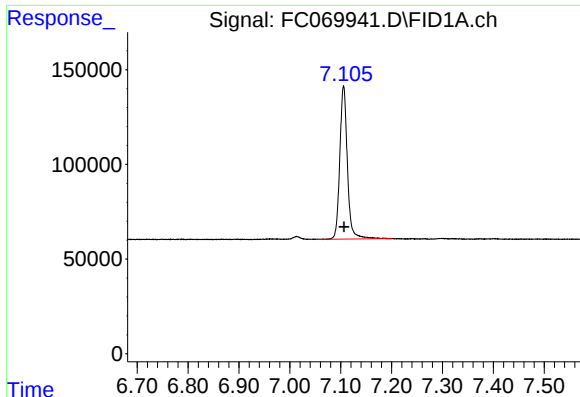
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 858039
Conc: 5.65 ug/ml



#4 n-Dodecane (C12)

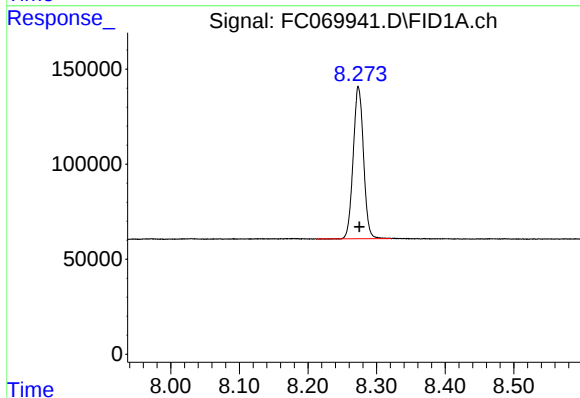
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 814407
Conc: 5.68 ug/ml



#5 A~2-methylnaphthalene (C12.89)

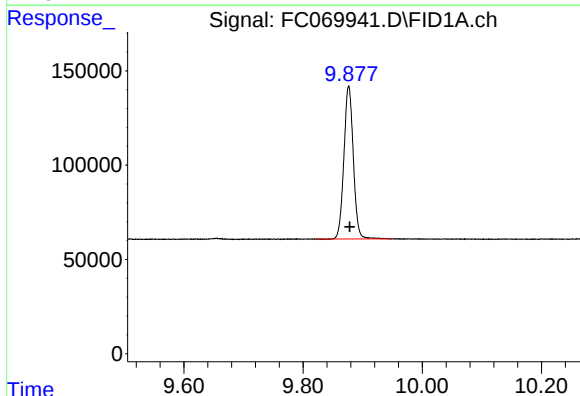
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 839181
Conc: 5.61 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



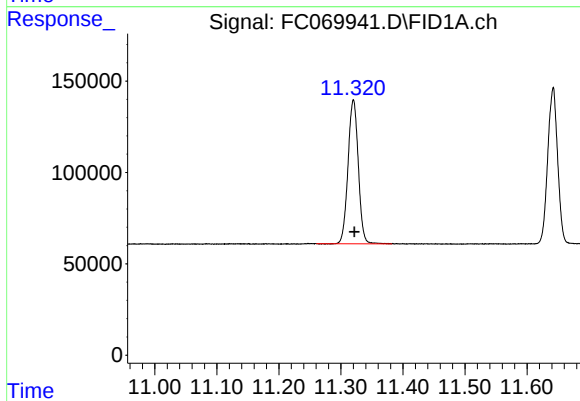
#6 n-Tetradecane (C14)

R.T.: 8.274 min
Delta R.T.: -0.001 min
Response: 834987
Conc: 5.63 ug/ml



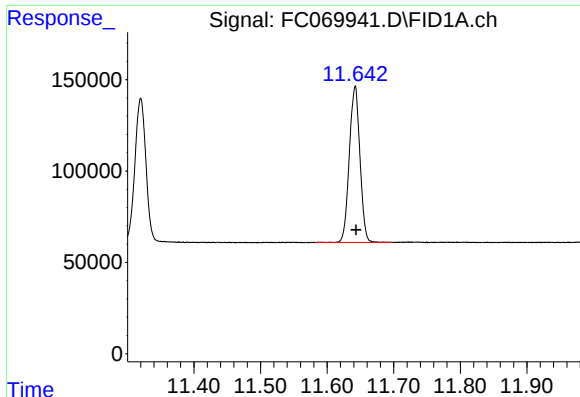
#7 n-Hexadecane (C16)

R.T.: 9.877 min
Delta R.T.: -0.002 min
Response: 890828
Conc: 5.68 ug/ml



#8 n-Octadecane (C18)

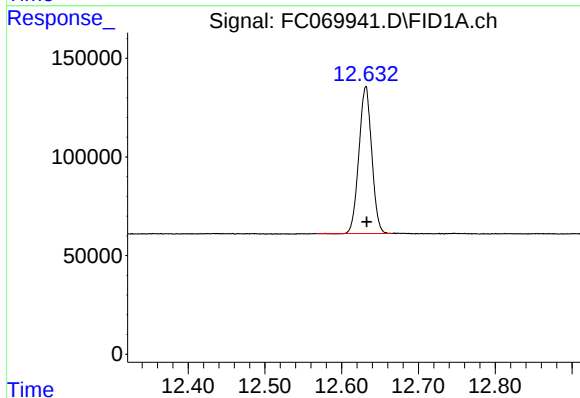
R.T.: 11.320 min
Delta R.T.: -0.002 min
Response: 907348
Conc: 5.74 ug/ml



#9 ortho-Terphenyl (SURR)

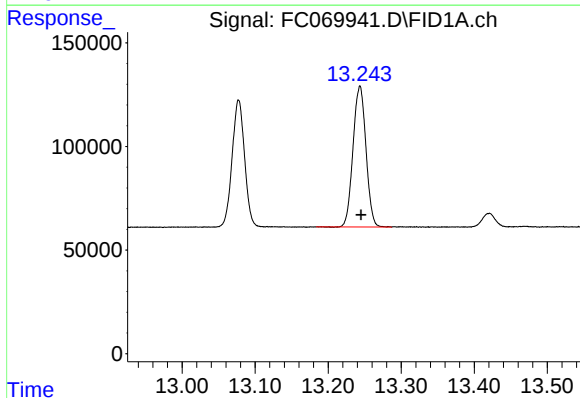
R.T.: 11.642 min
Delta R.T.: -0.002 min
Response: 945317
Conc: 5.85 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



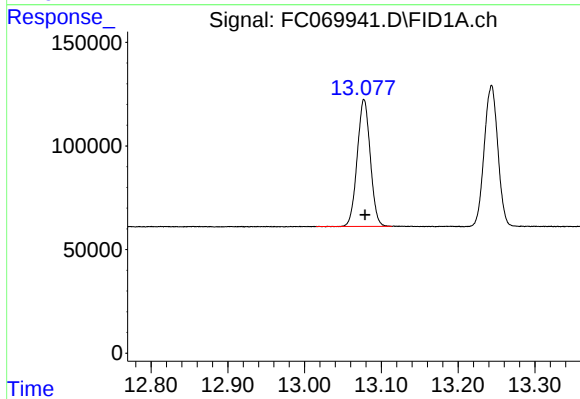
#10 n-Eicosane (C20)

R.T.: 12.631 min
Delta R.T.: -0.001 min
Response: 864853
Conc: 5.85 ug/ml



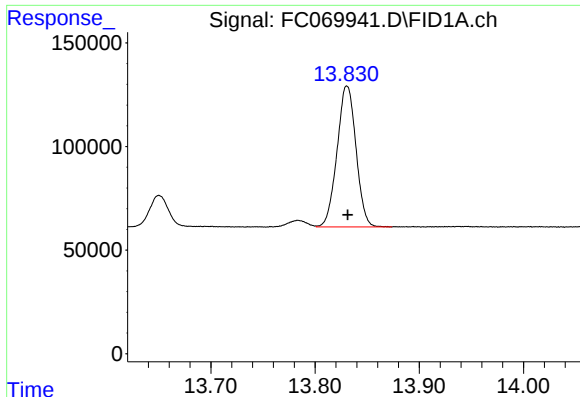
#11 n-Heneicosane (C21)

R.T.: 13.243 min
Delta R.T.: -0.002 min
Response: 838040
Conc: 5.87 ug/ml



#12 1-chlorooctadecane (SURR)

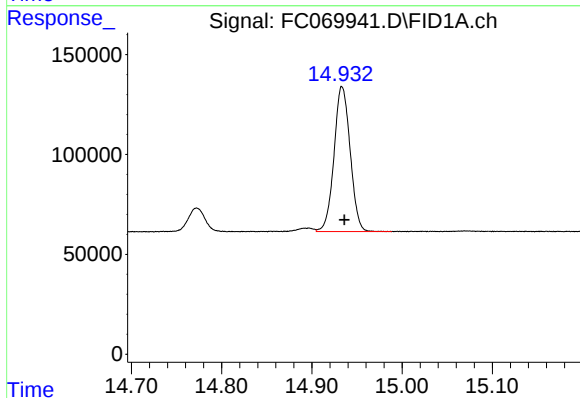
R.T.: 13.077 min
Delta R.T.: -0.002 min
Response: 725060
Conc: 5.80 ug/ml



#13 n-Docosane (C22)

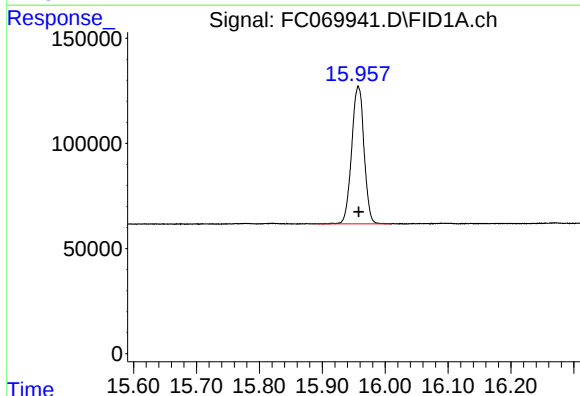
R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 859000
Conc: 6.16 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



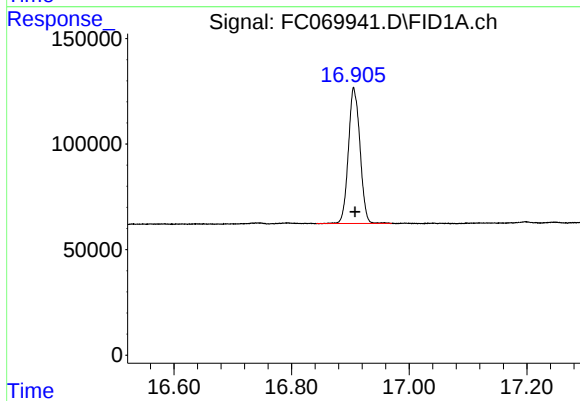
#14 n-Tetracosane (C24)

R.T.: 14.934 min
Delta R.T.: -0.003 min
Response: 901906
Conc: 6.77 ug/ml



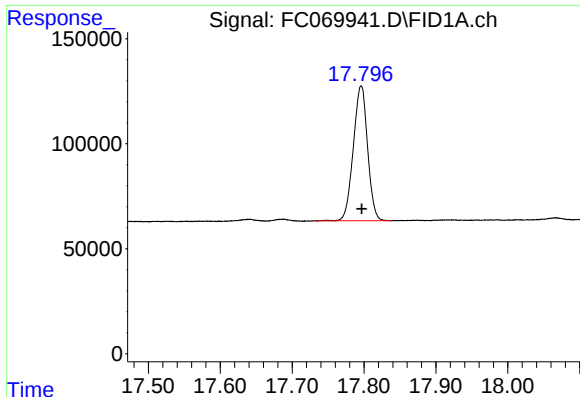
#15 n-Hexacosane (C26)

R.T.: 15.957 min
Delta R.T.: 0.000 min
Response: 890282
Conc: 7.09 ug/ml



#16 n-Octacosane (C28)

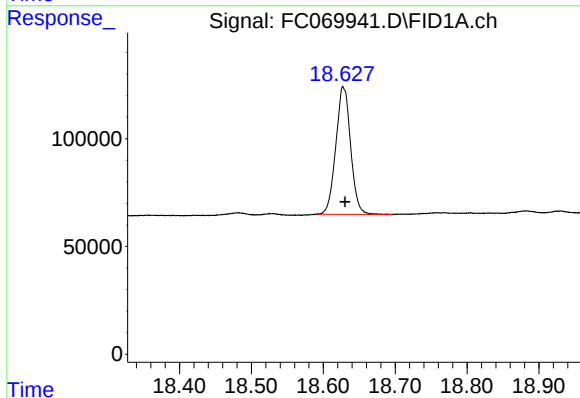
R.T.: 16.906 min
Delta R.T.: -0.002 min
Response: 879183
Conc: 7.45 ug/ml



#17 n-Tricontane (C30)

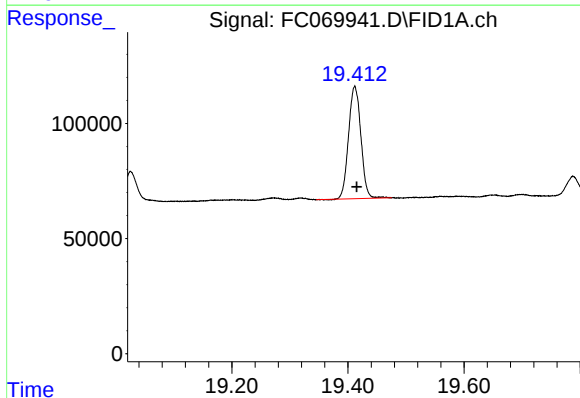
R.T.: 17.796 min
Delta R.T.: -0.001 min
Response: 882722
Conc: 7.66 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



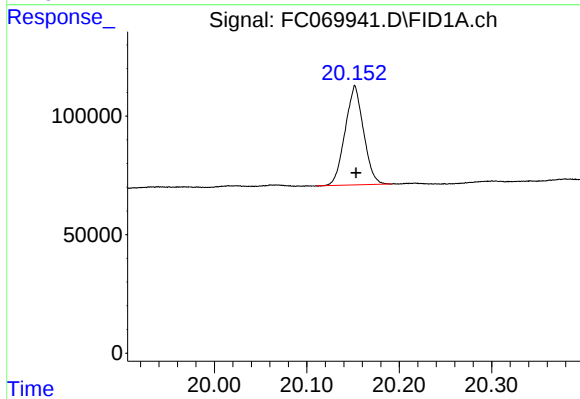
#18 n-Dotriacontane (C32)

R.T.: 18.628 min
Delta R.T.: -0.002 min
Response: 847118
Conc: 7.85 ug/ml



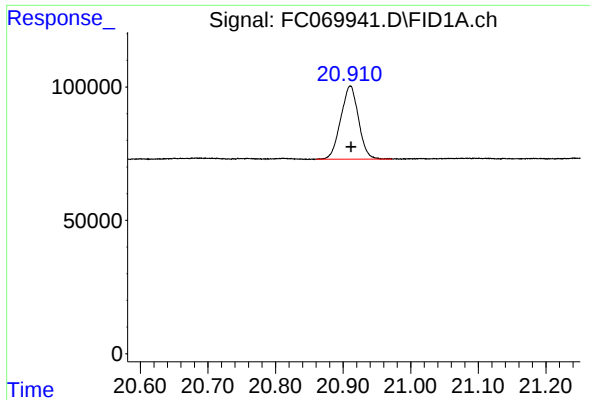
#19 n-Tetratriacontane (C34)

R.T.: 19.412 min
Delta R.T.: -0.003 min
Response: 720186
Conc: 7.36 ug/ml



#20 n-Hexatriacontane (C36)

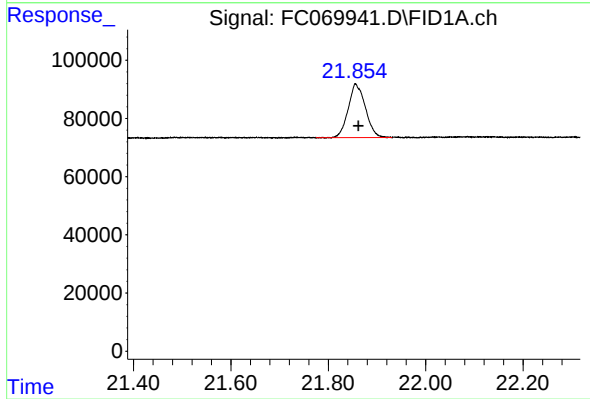
R.T.: 20.152 min
Delta R.T.: -0.001 min
Response: 578690
Conc: 6.75 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.910 min
Delta R.T.: -0.001 min
Response: 500729
Conc: 6.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.856 min
Delta R.T.: -0.005 min
Response: 450964
Conc: 6.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069941.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 19:19
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.360	3.432	BB	87399	738481	78.12%	4.211%
2	4.455	4.427	4.503	BB	85389	768097	81.25%	4.380%
3	6.048	6.018	6.123	BB	89131	858039	90.77%	4.893%
4	6.477	6.438	6.530	BB	82846	814407	86.15%	4.644%
5	7.106	7.052	7.200	BB	80824	839181	88.77%	4.786%
6	8.274	8.212	8.322	BB	79816	834987	88.33%	4.762%
7	9.877	9.822	9.948	BB	81191	890828	94.24%	5.080%
8	11.320	11.260	11.382	BB	78919	907348	95.98%	5.174%
9	11.642	11.583	11.697	BB	85468	945317	100.00%	5.391%
10	12.631	12.567	12.665	BB	74880	864853	91.49%	4.932%
11	13.077	13.015	13.113	BB	61432	725060	76.70%	4.135%
12	13.243	13.183	13.287	BB	68289	838040	88.65%	4.779%
13	13.831	13.801	13.873	VB	68032	859000	90.87%	4.899%
14	14.934	14.905	14.988	VB	72431	901906	95.41%	5.143%
15	15.957	15.890	16.010	BB	65508	890282	94.18%	5.077%
16	16.906	16.842	16.970	BB	63384	879183	93.00%	5.014%
17	17.796	17.733	17.838	BB	64281	882722	93.38%	5.034%
18	18.628	18.590	18.695	BB	58574	847118	89.61%	4.831%
19	19.412	19.345	19.475	BB	48804	720186	76.18%	4.107%
20	20.152	20.110	20.192	BV	41987	578690	61.22%	3.300%
21	20.910	20.860	20.972	BB	27441	500729	52.97%	2.856%
22	21.856	21.775	21.930	BB	18425	450964	47.71%	2.572%
Sum of corrected areas:							17535417	

Aliphatic EPH 100725.M Tue Oct 07 09:57:59 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069942.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 20:02
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 07 09:37:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.643	3426826	19.515 ug/ml
Spiked Amount 50.000		Recovery =	39.03%
12) S 1-chlorooctadecane (S...	13.078	2637598	19.431 ug/ml
Spiked Amount 50.000		Recovery =	38.86%
Target Compounds			
1) T n-Nonane (C9)	3.384	2690163	19.591 ug/ml
2) T n-Decane (C10)	4.455	2807684	19.530 ug/ml
3) T A~Naphthalene (C11.7)	6.048	3180233	19.678 ug/ml
4) T n-Dodecane (C12)	6.477	2978686	19.433 ug/ml
5) T A~2-methylnaphthalene...	7.106	3136946	19.661 ug/ml
6) T n-Tetradecane (C14)	8.275	3069732	19.301 ug/ml
7) T n-Hexadecane (C16)	9.878	3247204	19.269 ug/ml
8) T n-Octadecane (C18)	11.322	3293110	19.356 ug/ml
10) T n-Eicosane (C20)	12.632	3100336	19.325 ug/ml
11) T n-Heneicosane (C21)	13.245	3008707	19.377 ug/ml
13) T n-Docosane (C22)	13.832	2942368	19.119 ug/ml
14) T n-Tetracosane (C24)	14.936	2823498	18.621 ug/ml
15) T n-Hexacosane (C26)	15.957	2666763	18.425 ug/ml
16) T n-Octacosane (C28)	16.908	2509230	18.143 ug/ml
17) T n-Tricontane (C30)	17.796	2433398	17.823 ug/ml
18) T n-Dotriacontane (C32)	18.630	2267655	17.588 ug/ml
19) T n-Tetratriacontane (C34)	19.413	2049192	17.960 ug/ml
20) T n-Hexatriacontane (C36)	20.154	1789545	18.504 ug/ml
21) T n-Octatriacontane (C38)	20.913	1635409	18.764 ug/ml
22) T n-Tetracontane (C40)	21.863	1551501	18.883 ug/ml

(f)=RT Delta > 1/2 Window

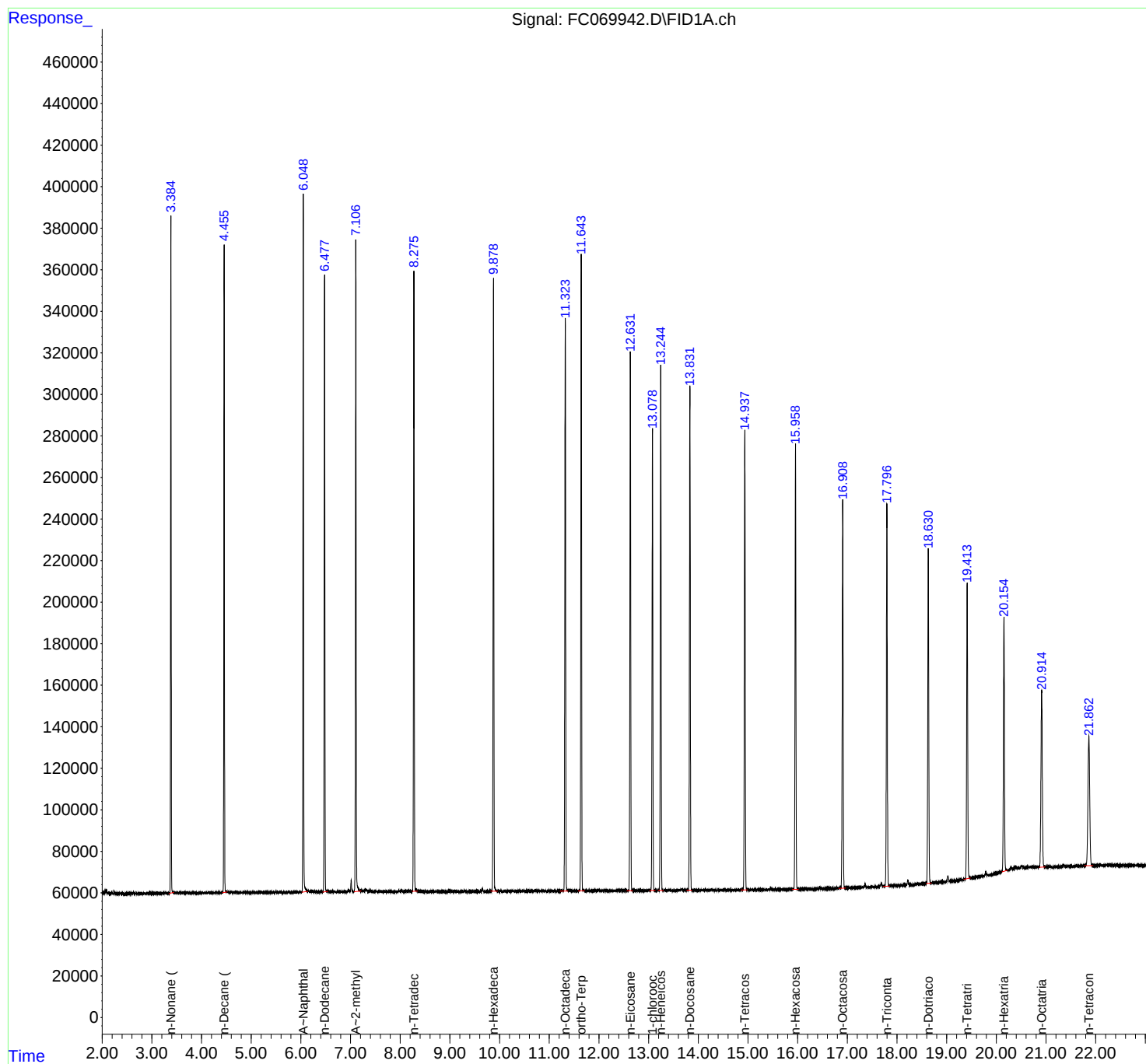
(m)=manual int.

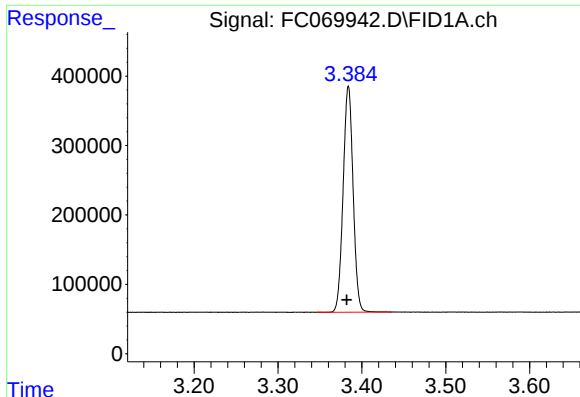
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069942.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 20:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 07 09:37:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

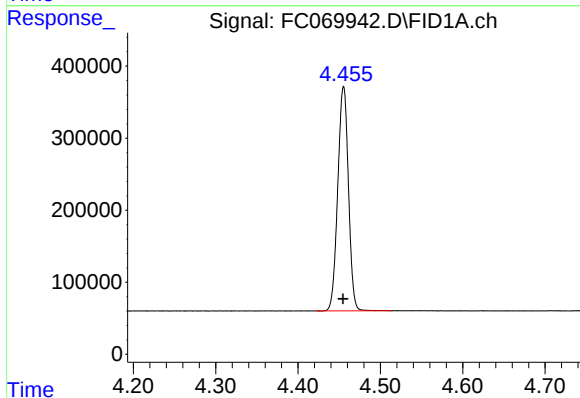
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 2690163
Conc: 19.59 ug/ml

Instrument :

FID_C

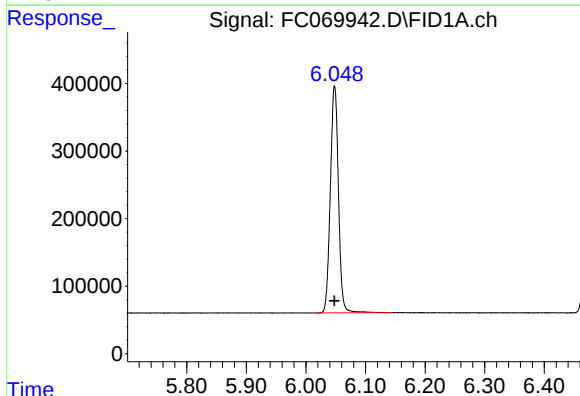
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



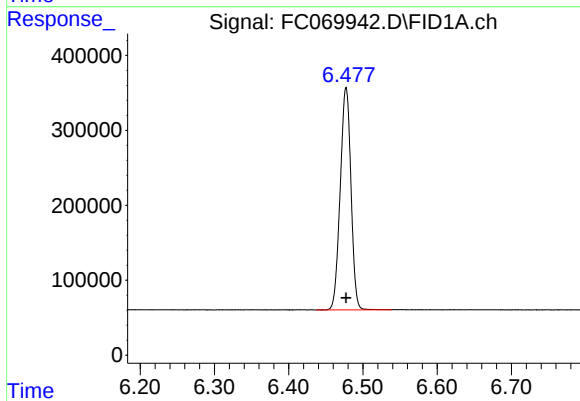
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: 0.000 min
Response: 2807684
Conc: 19.53 ug/ml



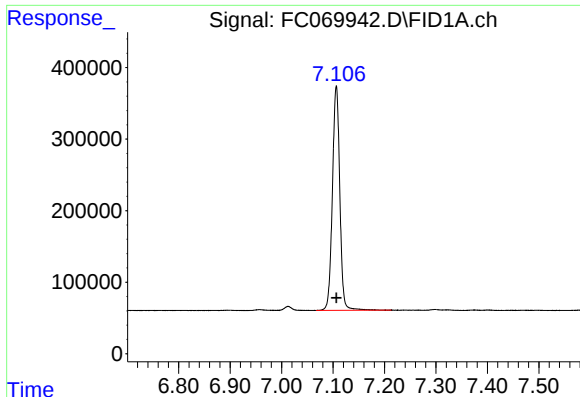
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 3180233
Conc: 19.68 ug/ml



#4 n-Dodecane (C12)

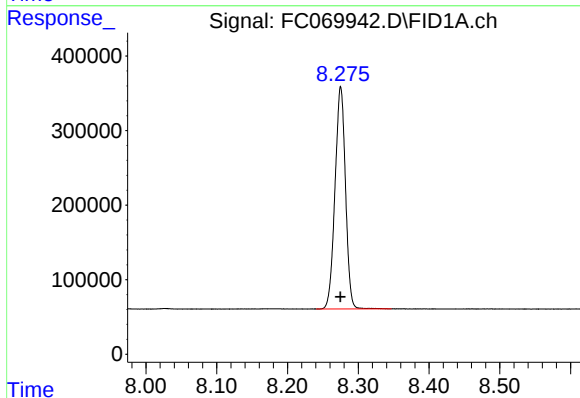
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 2978686
Conc: 19.43 ug/ml



#5 A~2-methylnaphthalene (C12.89)

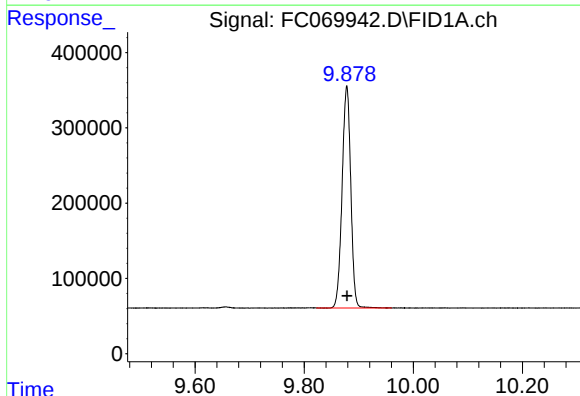
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 3136946
Conc: 19.66 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



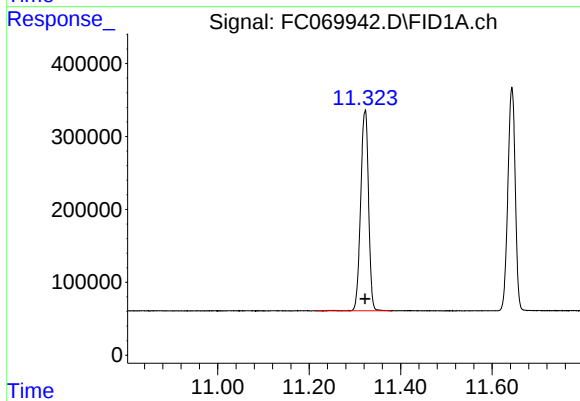
#6 n-Tetradecane (C14)

R.T.: 8.275 min
Delta R.T.: 0.000 min
Response: 3069732
Conc: 19.30 ug/ml



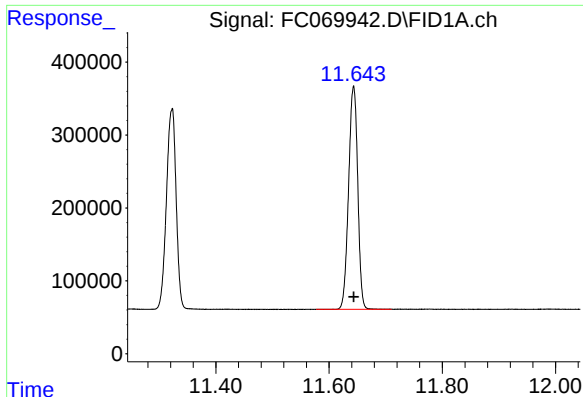
#7 n-Hexadecane (C16)

R.T.: 9.878 min
Delta R.T.: 0.000 min
Response: 3247204
Conc: 19.27 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.322 min
Delta R.T.: 0.000 min
Response: 3293110
Conc: 19.36 ug/ml



#9 ortho-Terphenyl (SURR)

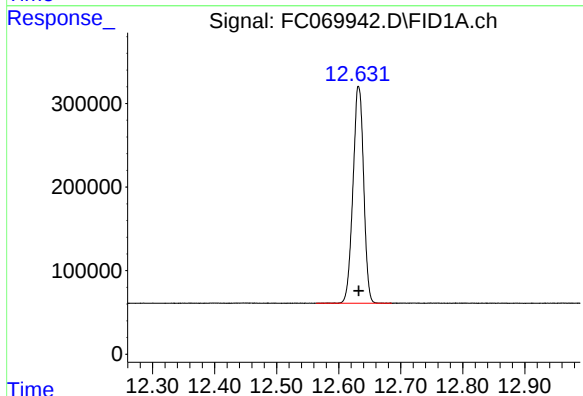
R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 3426826
Conc: 19.51 ug/ml

Instrument :

FID_C

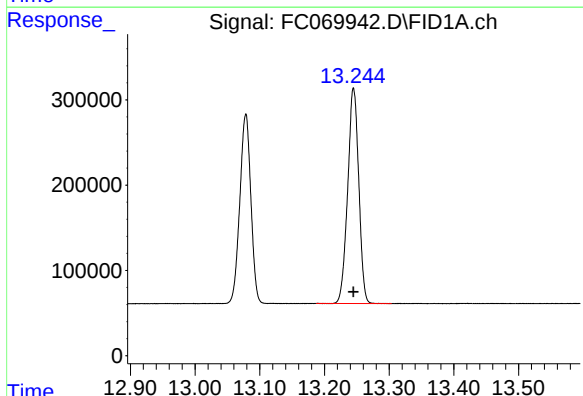
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



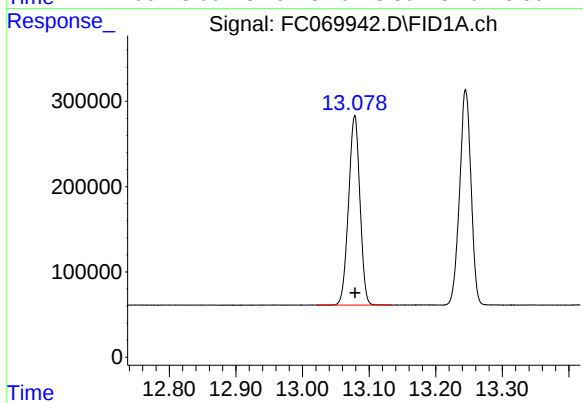
#10 n-Eicosane (C20)

R.T.: 12.632 min
Delta R.T.: 0.000 min
Response: 3100336
Conc: 19.32 ug/ml



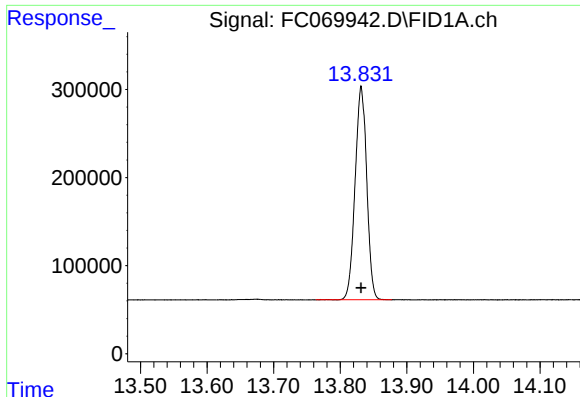
#11 n-Heneicosane (C21)

R.T.: 13.245 min
Delta R.T.: 0.000 min
Response: 3008707
Conc: 19.38 ug/ml



#12 1-chlorooctadecane (SURR)

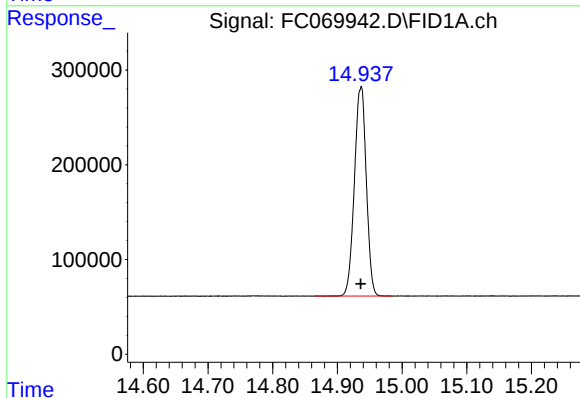
R.T.: 13.078 min
Delta R.T.: 0.000 min
Response: 2637598
Conc: 19.43 ug/ml



#13 n-Docosane (C22)

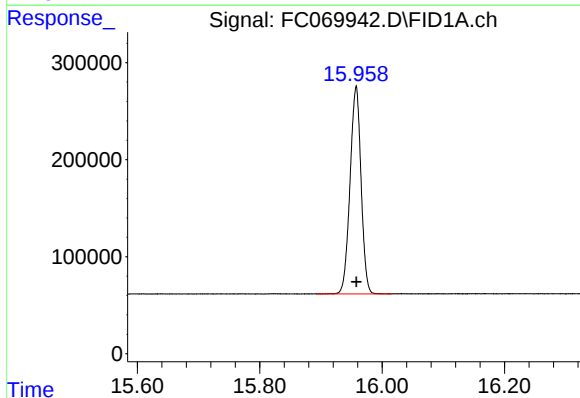
R.T.: 13.832 min
Delta R.T.: 0.000 min
Response: 2942368
Conc: 19.12 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



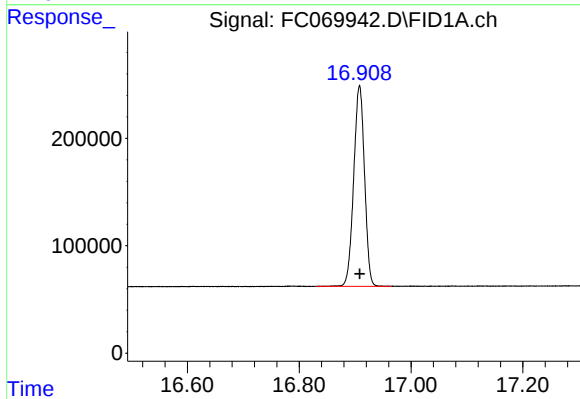
#14 n-Tetracosane (C24)

R.T.: 14.936 min
Delta R.T.: 0.000 min
Response: 2823498
Conc: 18.62 ug/ml



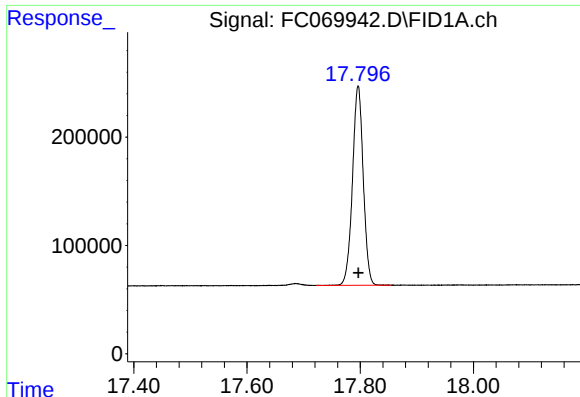
#15 n-Hexacosane (C26)

R.T.: 15.957 min
Delta R.T.: 0.000 min
Response: 2666763
Conc: 18.42 ug/ml



#16 n-Octacosane (C28)

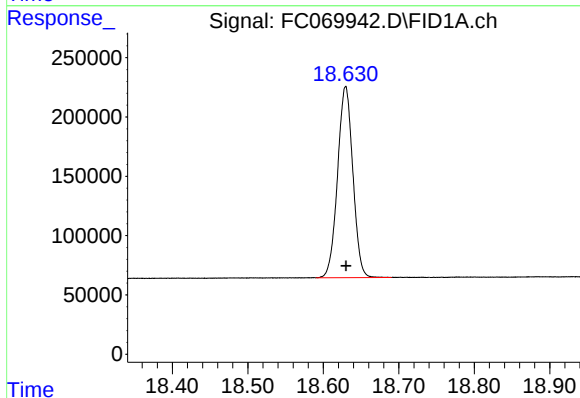
R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 2509230
Conc: 18.14 ug/ml



#17 n-Tricontane (C30)

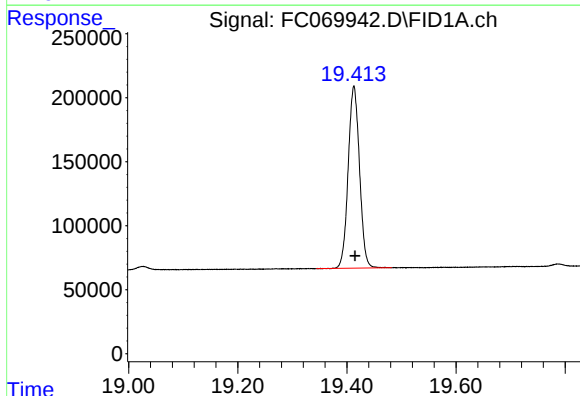
R.T.: 17.796 min
Delta R.T.: 0.000 min
Response: 2433398
Conc: 17.82 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



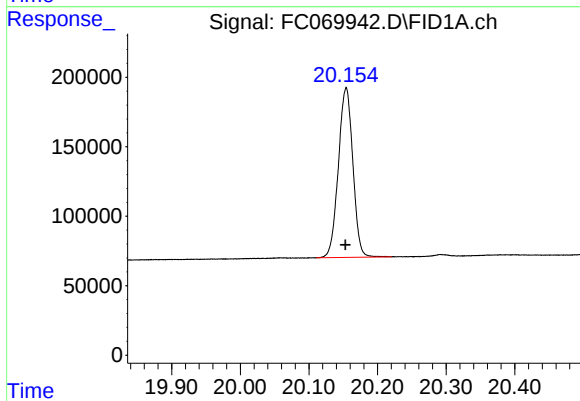
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: 0.000 min
Response: 2267655
Conc: 17.59 ug/ml



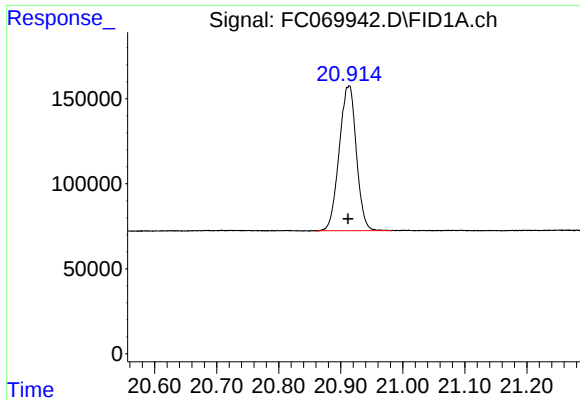
#19 n-Tetratriacontane (C34)

R.T.: 19.413 min
Delta R.T.: -0.002 min
Response: 2049192
Conc: 17.96 ug/ml



#20 n-Hexatriacontane (C36)

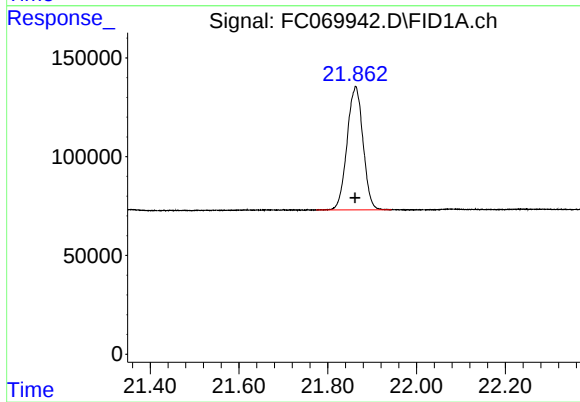
R.T.: 20.154 min
Delta R.T.: 0.000 min
Response: 1789545
Conc: 18.50 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.913 min
Delta R.T.: 0.001 min
Response: 1635409
Conc: 18.76 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.863 min
Delta R.T.: 0.001 min
Response: 1551501
Conc: 18.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069942.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 20:02
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.345	3.435	BB	326047	2690163	78.50%	4.541%
2	4.455	4.422	4.514	BB	312168	2807684	81.93%	4.739%
3	6.048	6.017	6.144	BB	335724	3180233	92.80%	5.368%
4	6.477	6.437	6.539	BB	296904	2978686	86.92%	5.028%
5	7.106	7.067	7.214	BB	314883	3136946	91.54%	5.295%
6	8.275	8.240	8.347	BB	298279	3069732	89.58%	5.181%
7	9.878	9.822	9.960	BB	295818	3247204	94.76%	5.481%
8	11.322	11.215	11.380	BB	274076	3293110	96.10%	5.558%
9	11.643	11.577	11.710	BB	306886	3426826	100.00%	5.784%
10	12.632	12.564	12.685	BB	259116	3100336	90.47%	5.233%
11	13.078	13.020	13.134	BB	222898	2637598	76.97%	4.452%
12	13.245	13.187	13.304	BB	252002	3008707	87.80%	5.078%
13	13.832	13.764	13.877	BB	241087	2942368	85.86%	4.966%
14	14.936	14.867	14.984	BB	219598	2823498	82.39%	4.766%
15	15.957	15.892	16.015	BB	213617	2666763	77.82%	4.501%
16	16.908	16.830	16.965	BB	186423	2509230	73.22%	4.235%
17	17.796	17.722	17.855	BB	184577	2433398	71.01%	4.107%
18	18.630	18.590	18.690	BB	161232	2267655	66.17%	3.828%
19	19.413	19.344	19.482	BB	142309	2049192	59.80%	3.459%
20	20.154	20.110	20.220	BB	121981	1789545	52.22%	3.021%
21	20.913	20.860	20.982	BB	84630	1635409	47.72%	2.760%
22	21.863	21.774	21.944	BB	62588	1551501	45.28%	2.619%
Sum of corrected areas:							59245785	

Aliphatic EPH 100725.M Tue Oct 07 09:58:19 2025

Initial Calibration Report for SequenceID : FD100225AR

AreaCount

Parameter Range	FD049791.D	FD049792.D	FD049793.D	FD049794.D	FD049795.D	
Aromatic C10-C12	25427460.000	12246862.000	4558465.000	2308235.000	1349679.000	
Aromatic C12-C16	44219117.000	21369355.000	7997923.000	4074363.000	2367349.000	
Aromatic C16-C21	58880353.000	28489474.000	10565292.000	5373434.000	3096151.000	
Aromatic C21-C36	113279188.000	55536652.000	20589877.000	10574479.000	6207569.000	
Aromatic EPH	241806118.000	117642343.000	43711557.000	22330511.000	13020748.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	122789.439	7.049				
Aromatic C12-C16	143358.7013328	6.839				
Aromatic C16-C21	142171.5605	6.566				
Aromatic C21-C36	123821.7882218	7.367				
Aromatic EPH	131040.9621106	7.017				

Concentration

Parameter Range	FD049791.D	FD049792.D	FD049793.D	FD049794.D	FD049795.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049791.D	FD049792.D	FD049793.D	FD049794.D	FD049795.D	
Aromatic C10-C12	127137.300000	122468.620000	113961.625000	115411.750000	134967.900000	
Aromatic C12-C16	147397.056666	142462.366666	133298.716666	135812.100000	157823.266666	
Aromatic C16-C21	147200.882500	142447.370000	132066.150000	134335.850000	154807.550000	
Aromatic C21-C36	125865.764444	123414.782222	114388.205555	117494.211111	137945.977777	
Aromatic EPH	134336.732222	130713.714444	121420.991666	124058.394444	144674.977777	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049791.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 09:40
 Operator : YP/AJ
 Sample : 100 PPM AROMATIC HC STD1
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 100 PPM AROMATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 02 12:23:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 12:20:25 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.702	12297466	105.279 ug/ml
Spiked Amount 50.000		Recovery =	210.56%
6) S 2-Fluorobiphenyl (SURR)	8.569	8829631	105.527 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	211.05%#
11) S ortho-Terphenyl (SURR)	11.617	15083328	104.185 ug/ml
Spiked Amount 50.000		Recovery =	208.37%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.492	11695090	105.250 ug/ml
2) T Naphthalene (C11.7)	6.037	13732370	105.649 ug/ml
3) T 2-Methylnaphthalene (...)	7.093	14358809	105.572 ug/ml
5) T Acenaphthylene (C15.06)	8.374	14927854	104.729 ug/ml
7) T Acenaphthene (C15.5)	8.672	14932454	104.792 ug/ml
8) T Fluorene (C16.55)	9.453	15004127	104.915 ug/ml
9) T Phenanthrene (C19.36)	10.852	15141178	105.308 ug/ml
10) T Anthracene (C19.43)	10.929	14050883	105.566 ug/ml
12) T Fluoranthene (C21.85)	12.669	14846106	105.943 ug/ml
13) T Pyrene (C20.8)	12.967	14684165	105.915 ug/ml
14) T Benzo[a]anthracene (C...	14.838	13181939	106.439 ug/ml
15) T Chrysene (C27.41)	14.887	13333384	106.103 ug/ml
16) T benzo[b]fluoranthene ...	16.393	12901391	105.856 ug/ml
17) T Bnezo[k]fluoranthene ...	16.431	11752195	104.884 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.775	12308141	104.503 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.141	11738329	105.996 ug/ml
20) T Dibenz[a,h]anthracene...	18.181	11303844	101.557 ug/ml
21) T Benzo[g,h,i]perylene ...	18.403	11913859	103.219 ug/ml

(f)=RT Delta > 1/2 Window

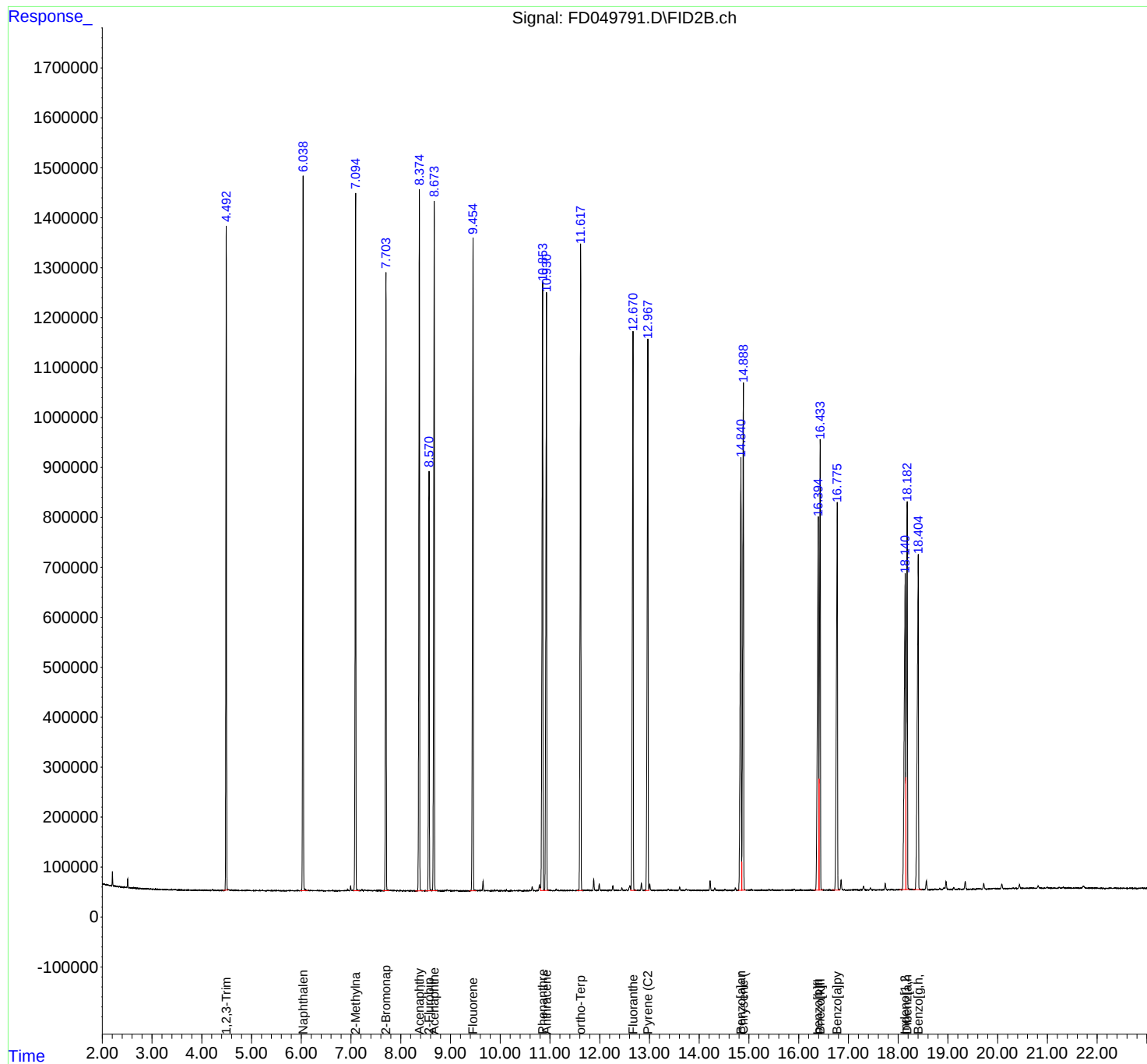
(m)=manual int.

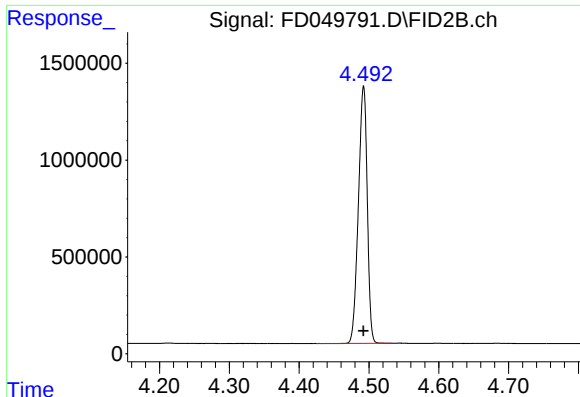
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049791.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 09:40
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 02 12:23:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 12:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





#1 1,2,3-Trimethylbenzene (C10.1)

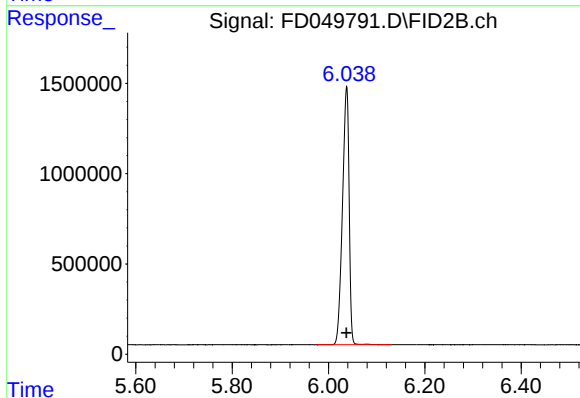
R.T.: 4.492 min
Delta R.T.: 0.000 min
Response: 11695090
Conc: 105.25 ug/ml

Instrument :

FID_D

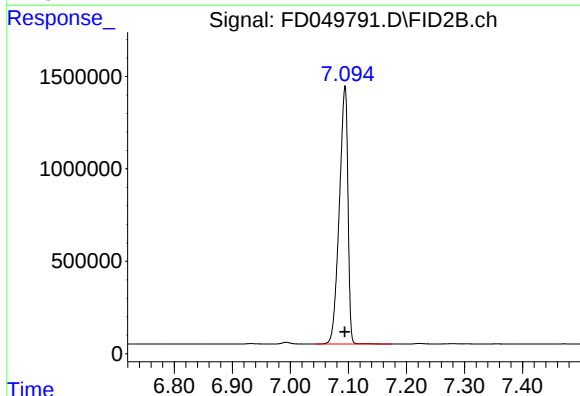
ClientSampleId :

100 PPM AROMATIC HC STD1



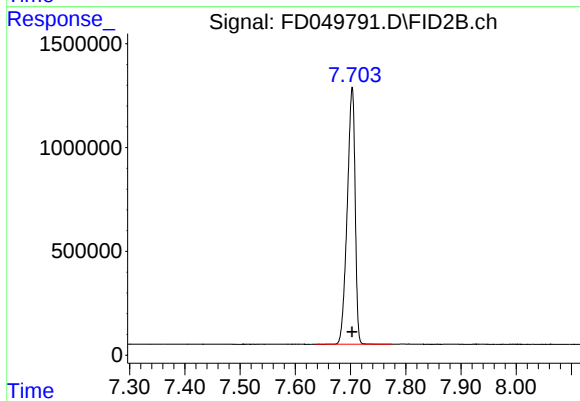
#2 Naphthalene (C11.7)

R.T.: 6.037 min
Delta R.T.: 0.000 min
Response: 13732370
Conc: 105.65 ug/ml



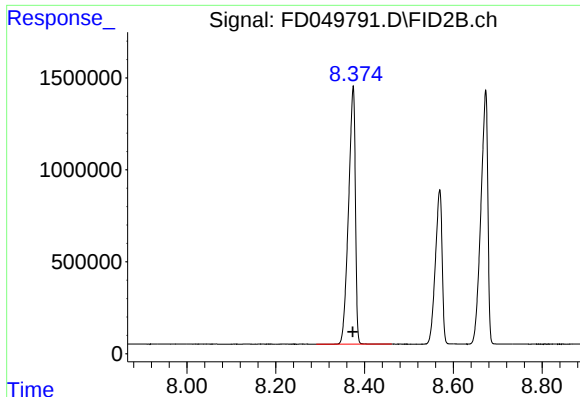
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.093 min
Delta R.T.: 0.000 min
Response: 14358809
Conc: 105.57 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.702 min
Delta R.T.: 0.000 min
Response: 12297466
Conc: 105.28 ug/ml



#5 Acenaphthylene (C15.06)

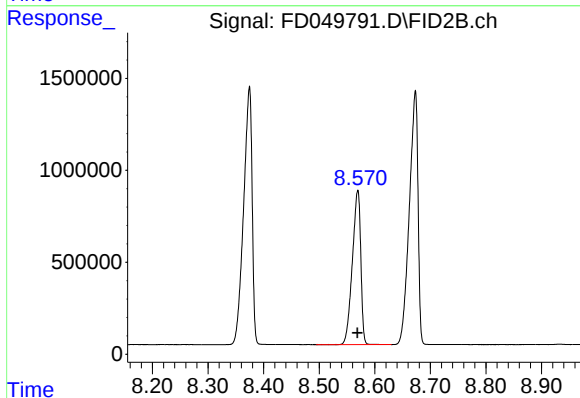
R.T.: 8.374 min
Delta R.T.: 0.000 min
Response: 14927854
Conc: 104.73 ug/ml

Instrument :

FID_D

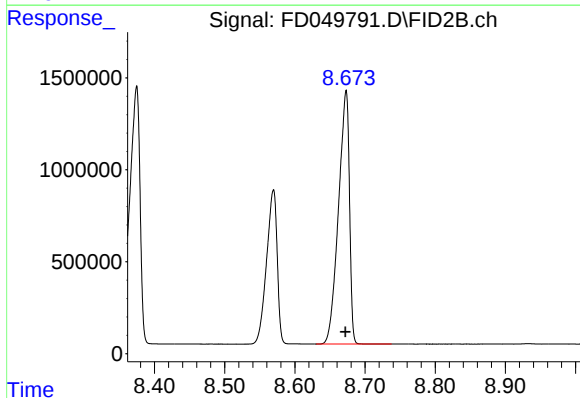
ClientSampleId :

100 PPM AROMATIC HC STD1



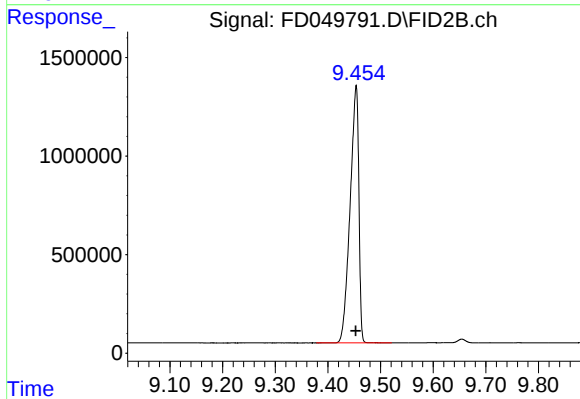
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 8829631
Conc: 105.53 ug/ml



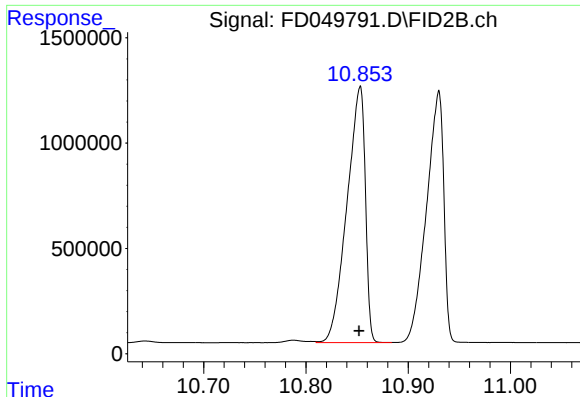
#7 Acenaphthene (C15.5)

R.T.: 8.672 min
Delta R.T.: 0.000 min
Response: 14932454
Conc: 104.79 ug/ml



#8 Fluorene (C16.55)

R.T.: 9.453 min
Delta R.T.: 0.000 min
Response: 15004127
Conc: 104.92 ug/ml



#9 Phenanthrene (C19.36)

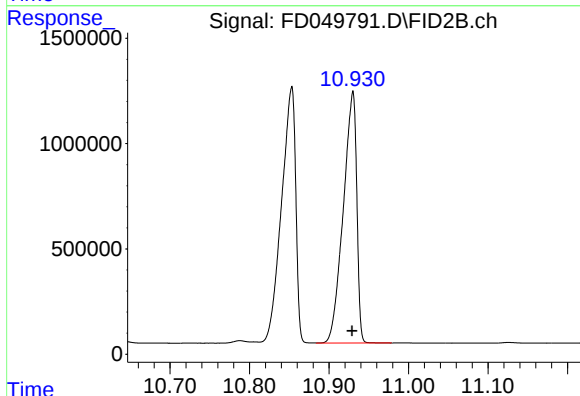
R.T.: 10.852 min
Delta R.T.: 0.000 min
Response: 15141178
Conc: 105.31 ug/ml

Instrument :

FID_D

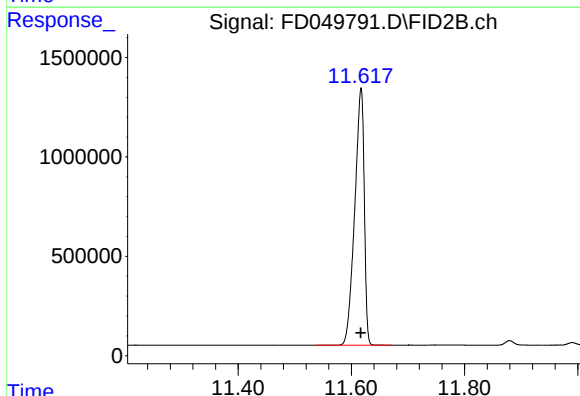
ClientSampleId :

100 PPM AROMATIC HC STD1



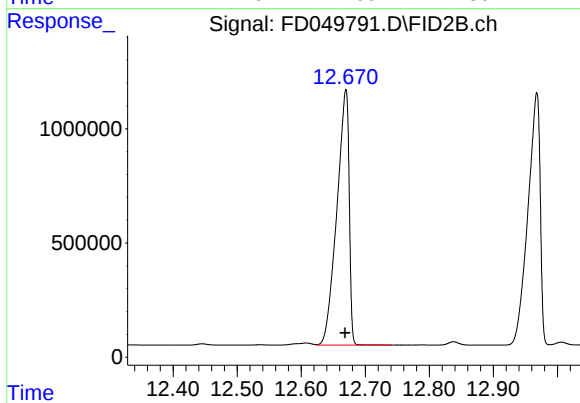
#10 Anthracene (C19.43)

R.T.: 10.929 min
Delta R.T.: 0.000 min
Response: 14050883
Conc: 105.57 ug/ml



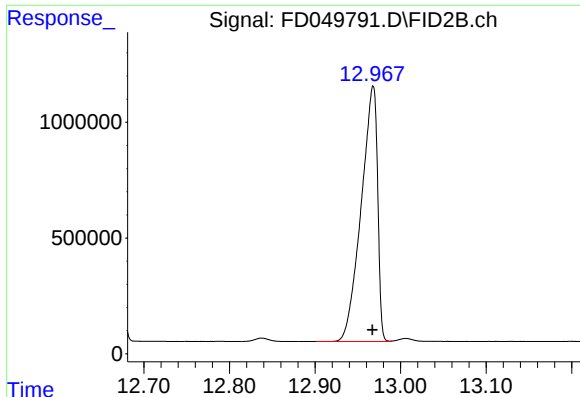
#11 ortho-Terphenyl (SURR)

R.T.: 11.617 min
Delta R.T.: 0.000 min
Response: 15083328
Conc: 104.18 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.669 min
Delta R.T.: 0.000 min
Response: 14846106
Conc: 105.94 ug/ml



#13 Pyrene (C20.8)

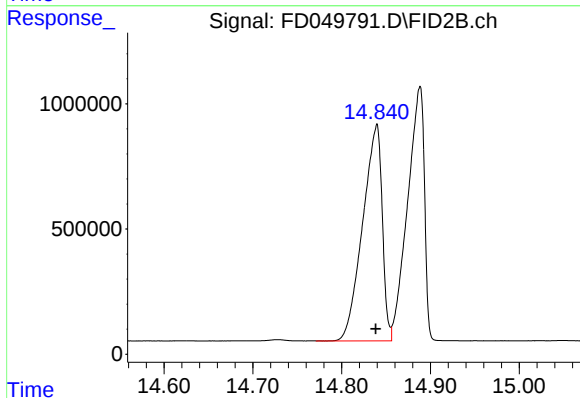
R.T.: 12.967 min
Delta R.T.: 0.000 min
Response: 14684165
Conc: 105.91 ug/ml

Instrument :

FID_D

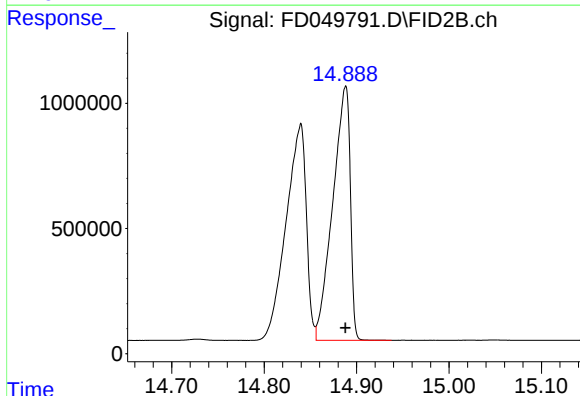
ClientSampleId :

100 PPM AROMATIC HC STD1



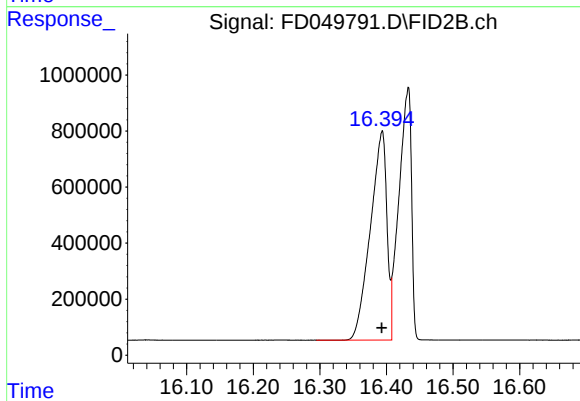
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.838 min
Delta R.T.: 0.000 min
Response: 13181939
Conc: 106.44 ug/ml



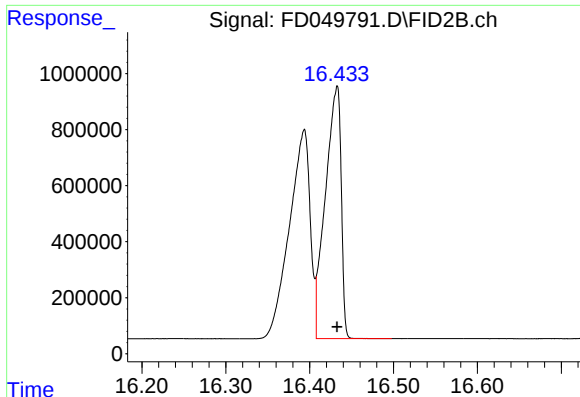
#15 Chrysene (C27.41)

R.T.: 14.887 min
Delta R.T.: -0.001 min
Response: 13333384
Conc: 106.10 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 12901391
Conc: 105.86 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

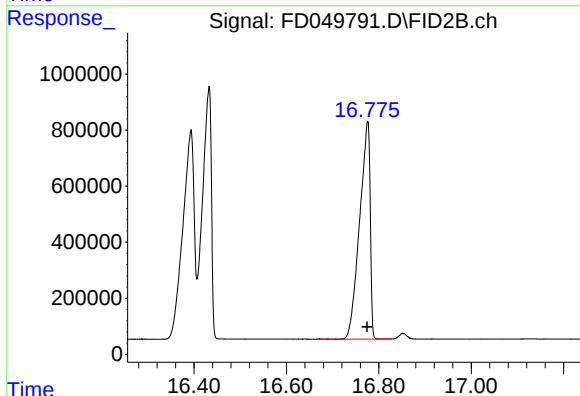
R.T.: 16.431 min
Delta R.T.: -0.001 min
Response: 11752195
Conc: 104.88 ug/ml

Instrument :

FID_D

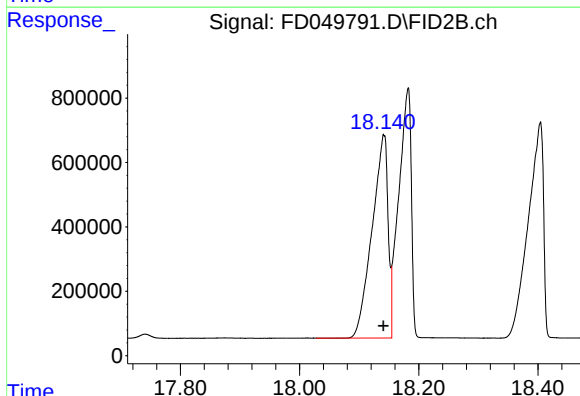
ClientSampleId :

100 PPM AROMATIC HC STD1



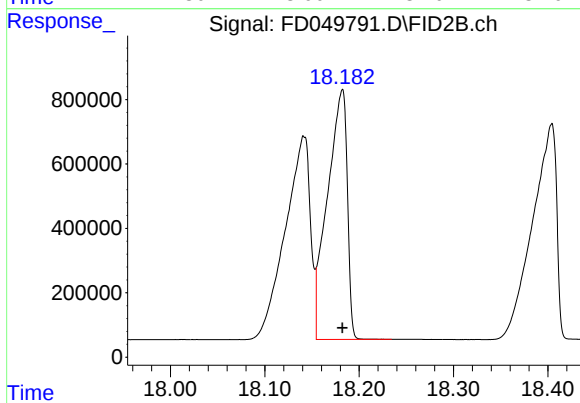
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.775 min
Delta R.T.: 0.000 min
Response: 12308141
Conc: 104.50 ug/ml



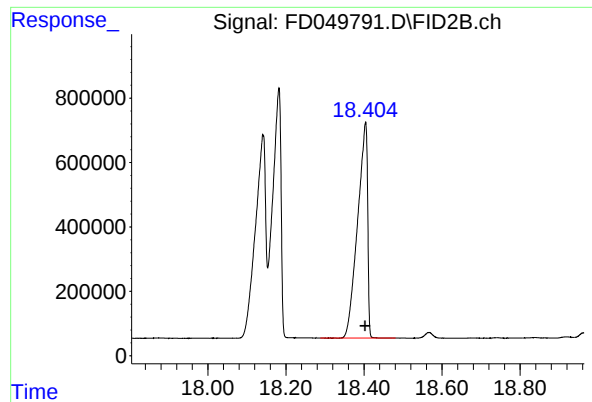
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.141 min
Delta R.T.: 0.000 min
Response: 11738329
Conc: 106.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.181 min
Delta R.T.: -0.002 min
Response: 11303844
Conc: 101.56 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.403 min
Delta R.T.: 0.000 min
Response: 11913859
Conc: 103.22 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049791.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 09:40
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.492	4.425	4.533	BV	1319000	11695090	77.24%	4.207%
2	6.037	5.974	6.131	BB	1444484	13732370	90.70%	4.939%
3	7.093	7.045	7.175	PB	1418085	14358809	94.83%	5.165%
4	7.702	7.638	7.775	BV	1216067	12297466	81.22%	4.423%
5	8.374	8.291	8.461	BB	1421582	14927854	98.59%	5.369%
6	8.569	8.495	8.630	BV	830910	8829631	58.32%	3.176%
7	8.672	8.630	8.738	PB	1346512	14932454	98.62%	5.371%
8	9.453	9.378	9.521	BB	1336922	15004127	99.09%	5.397%
9	10.852	10.810	10.884	VV	1197341	15141178	100.00%	5.446%
10	10.929	10.884	10.979	VV	1160005	14050883	92.80%	5.054%
11	11.617	11.538	11.671	BB	1316909	15083328	99.62%	5.425%
12	12.669	12.623	12.741	VB	1102573	14846106	98.05%	5.340%
13	12.967	12.901	12.989	BV	1117406	14684165	96.98%	5.282%
14	14.838	14.771	14.856	BV	849446	13181939	87.06%	4.741%
15	14.887	14.856	14.938	VB	1025959	13333384	88.06%	4.796%
16	16.393	16.294	16.408	BV	736440	12901391	85.21%	4.641%
17	16.431	16.408	16.498	VB	890029	11752195	77.62%	4.227%
18	16.775	16.665	16.828	BV	773862	12308141	81.29%	4.427%
19	18.141	18.028	18.155	BV	634651	11738329	77.53%	4.222%
20	18.181	18.155	18.235	VB	773957	11303844	74.66%	4.066%
21	18.403	18.288	18.481	BB	683316	11913859	78.69%	4.285%
Sum of corrected areas:						278016541		

Aromatic EPH 100225.M Thu Oct 02 17:58:02 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049792.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 10:21
 Operator : YP/AJ
 Sample : 50 PPM AROMATIC HC STD2
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 50 PPM AROMATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 02 12:24:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 12:20:25 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.698	5936602	50.546 ug/ml
Spiked Amount 50.000		Recovery =	101.09%
6) S 2-Fluorobiphenyl (SURR)	8.563	4268561	50.672 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	101.34%
11) S ortho-Terphenyl (SURR)	11.610	7350792	50.513 ug/ml
Spiked Amount 50.000		Recovery =	101.03%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.490	5643594	50.523 ug/ml
2) T Naphthalene (C11.7)	6.033	6603268	50.532 ug/ml
3) T 2-Methylnaphthalene (...)	7.088	6914911	50.558 ug/ml
5) T Acenaphthylene (C15.06)	8.367	7224358	50.454 ug/ml
7) T Acenaphthene (C15.5)	8.664	7230086	50.490 ug/ml
8) T Flouorene (C16.55)	9.445	7263851	50.525 ug/ml
9) T Phenanthrene (C19.36)	10.843	7319229	50.600 ug/ml
10) T Anthracene (C19.43)	10.919	6813530	50.788 ug/ml
12) T Fluoranthene (C21.85)	12.658	7188398	50.857 ug/ml
13) T Pyrene (C20.8)	12.956	7092864	50.767 ug/ml
14) T Benzo[a]anthracene (C...	14.828	6386519	51.035 ug/ml
15) T Chrysene (C27.41)	14.873	6476246	50.982 ug/ml
16) T benzo[b]fluoranthene ...	16.380	6243749	50.813 ug/ml
17) T Bnezo[k]fluoranthene ...	16.415	5846863	51.082 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.760	6034196	50.816 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.125	5612991	50.454 ug/ml
20) T Dibenz[a,h]anthracene...	18.165	5854820	51.392 ug/ml
21) T Benzo[g,h,i]perylene ...	18.384	5892870	50.698 ug/ml

(f)=RT Delta > 1/2 Window

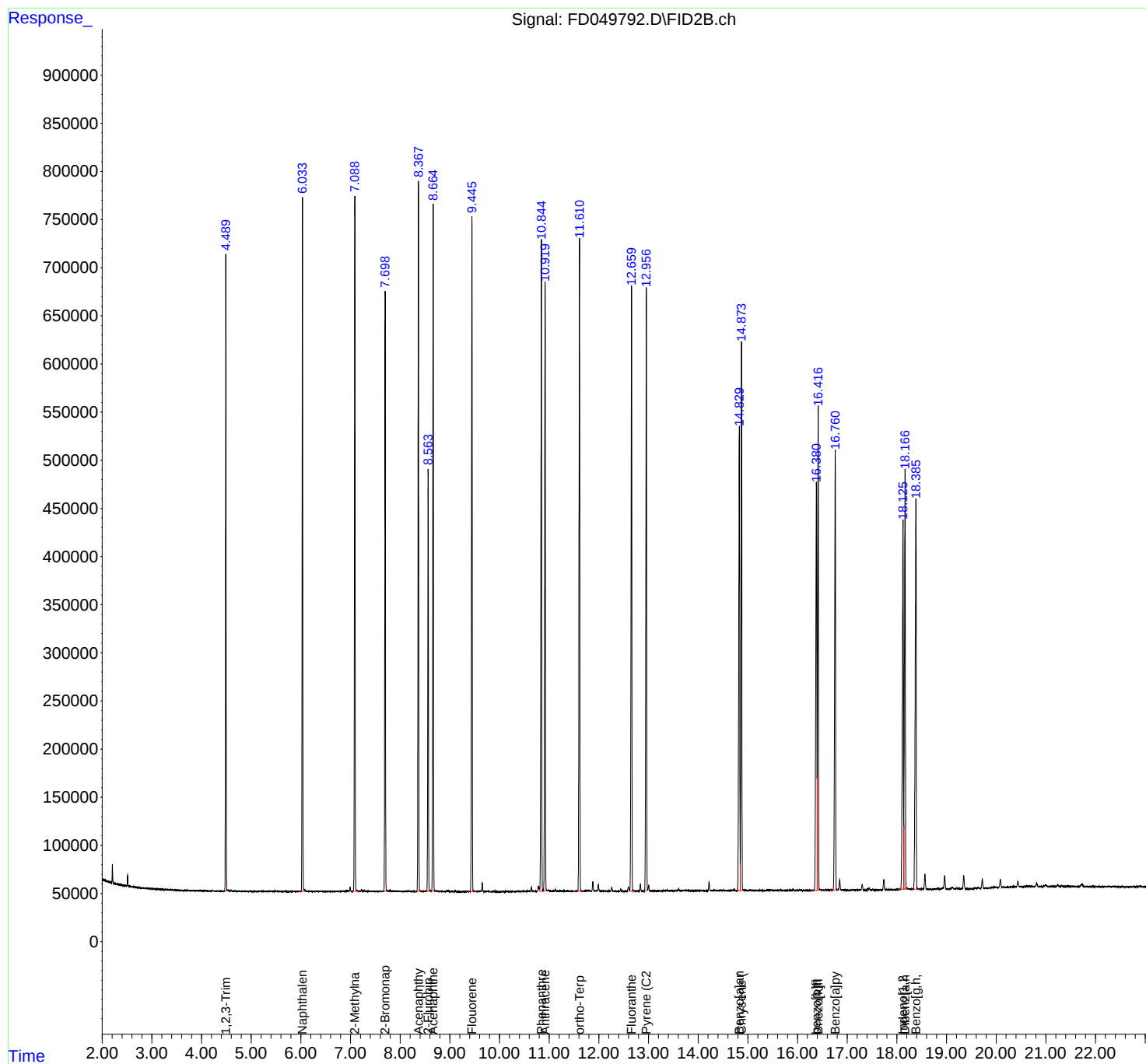
(m)=manual int.

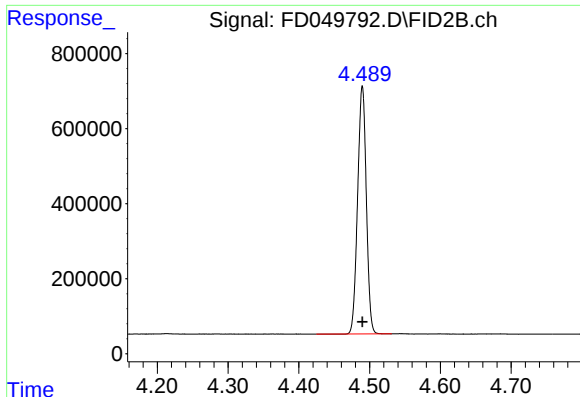
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049792.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 10:21
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 02 12:24:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 12:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

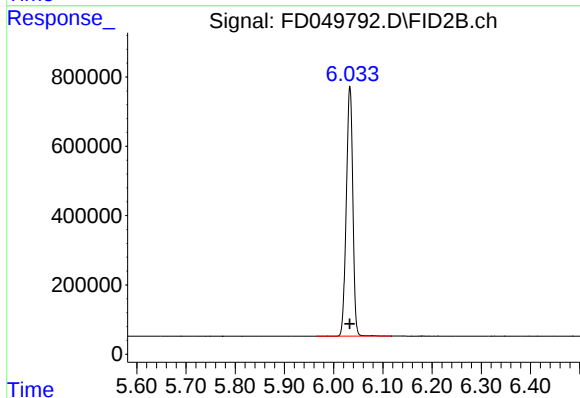




#1 1,2,3-Trimethylbenzene (C10.1)

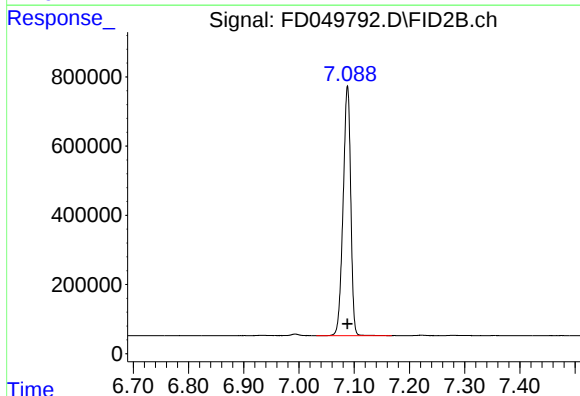
R.T.: 4.490 min
Delta R.T.: 0.000 min
Response: 5643594
Conc: 50.52 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



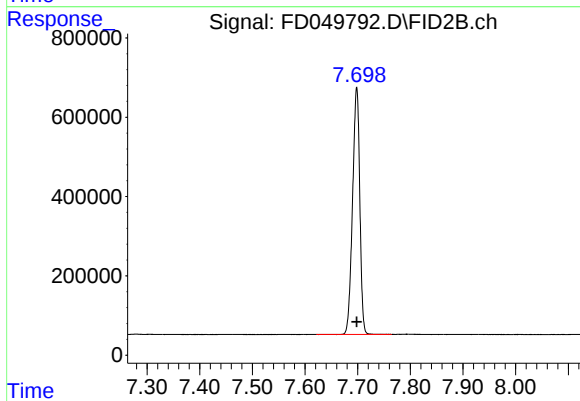
#2 Naphthalene (C11.7)

R.T.: 6.033 min
Delta R.T.: 0.000 min
Response: 6603268
Conc: 50.53 ug/ml



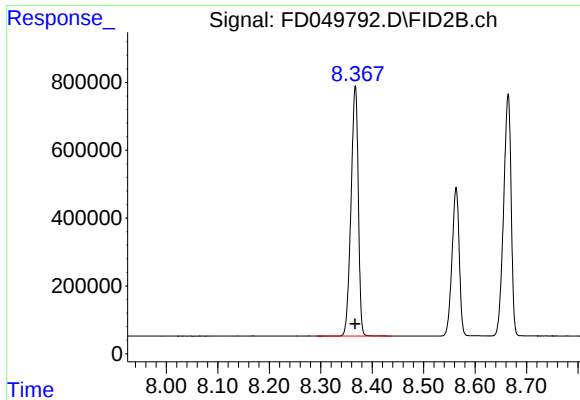
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.088 min
Delta R.T.: 0.000 min
Response: 6914911
Conc: 50.56 ug/ml



#4 2-Bromonaphthalene (SURR)

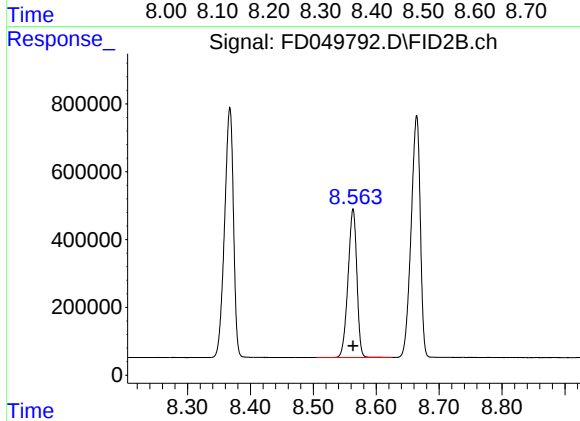
R.T.: 7.698 min
Delta R.T.: 0.000 min
Response: 5936602
Conc: 50.55 ug/ml



#5 Acenaphthylene (C15.06)

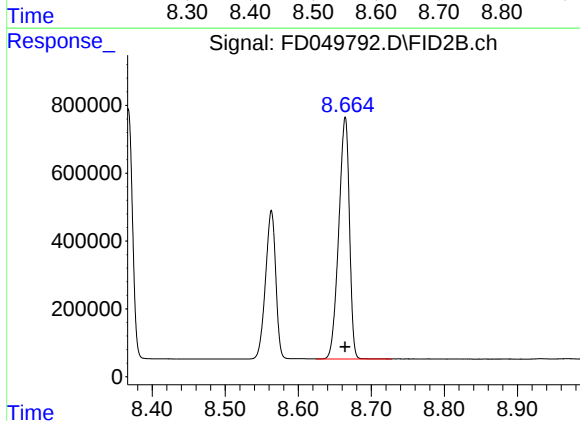
R.T.: 8.367 min
Delta R.T.: 0.000 min
Response: 7224358
Conc: 50.45 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



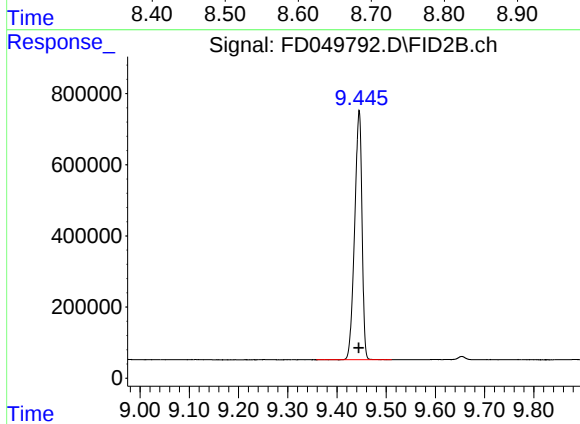
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.563 min
Delta R.T.: 0.000 min
Response: 4268561
Conc: 50.67 ug/ml



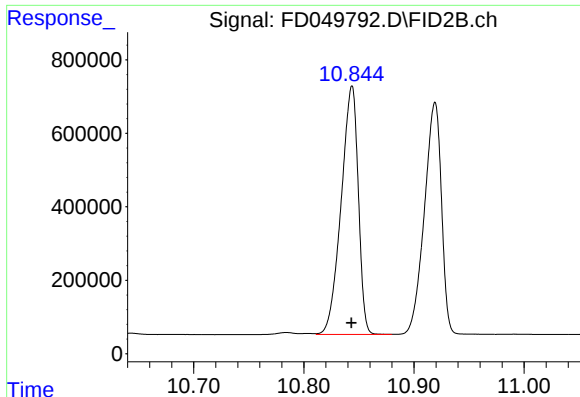
#7 Acenaphthene (C15.5)

R.T.: 8.664 min
Delta R.T.: 0.000 min
Response: 7230086
Conc: 50.49 ug/ml



#8 Fluorene (C16.55)

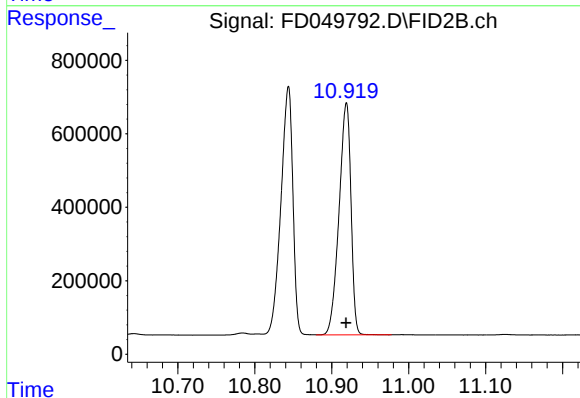
R.T.: 9.445 min
Delta R.T.: 0.000 min
Response: 7263851
Conc: 50.53 ug/ml



#9 Phenanthrene (C19.36)

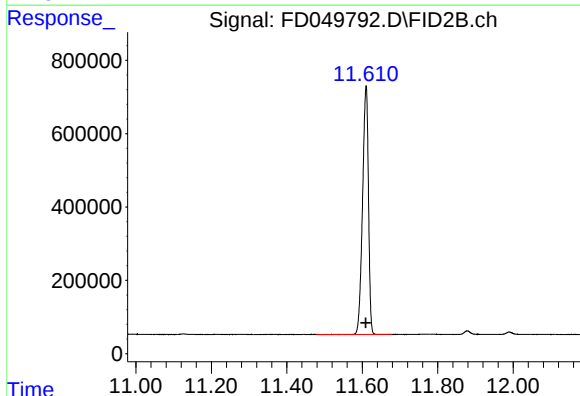
R.T.: 10.843 min
Delta R.T.: 0.000 min
Response: 7319229
Conc: 50.60 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



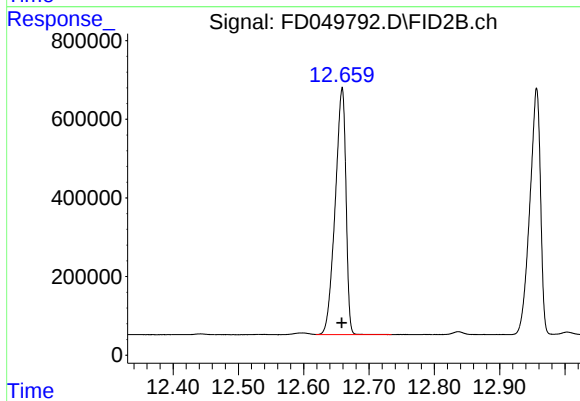
#10 Anthracene (C19.43)

R.T.: 10.919 min
Delta R.T.: 0.000 min
Response: 6813530
Conc: 50.79 ug/ml



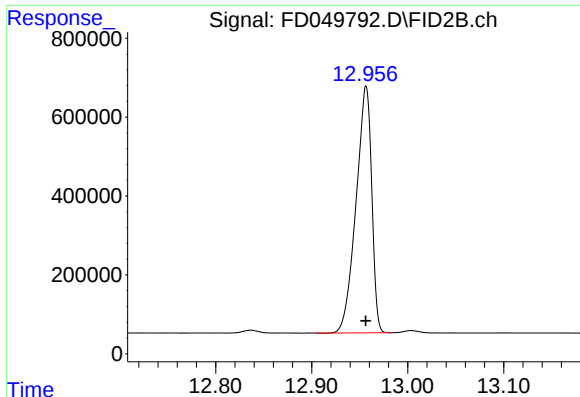
#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: 0.000 min
Response: 7350792
Conc: 50.51 ug/ml



#12 Fluoranthene (C21.85)

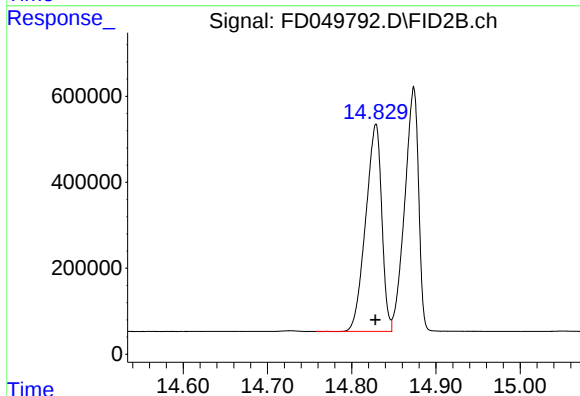
R.T.: 12.658 min
Delta R.T.: 0.000 min
Response: 7188398
Conc: 50.86 ug/ml



#13 Pyrene (C20.8)

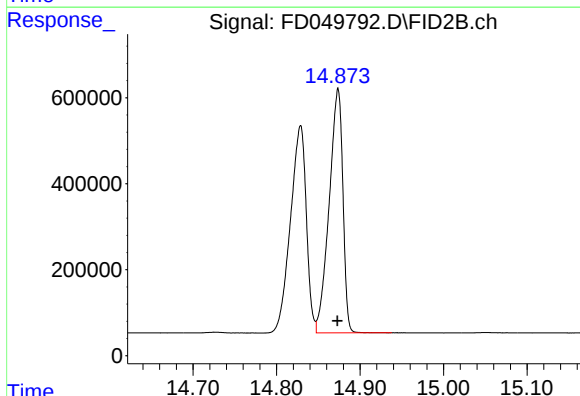
R.T.: 12.956 min
Delta R.T.: 0.000 min
Response: 7092864
Conc: 50.77 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



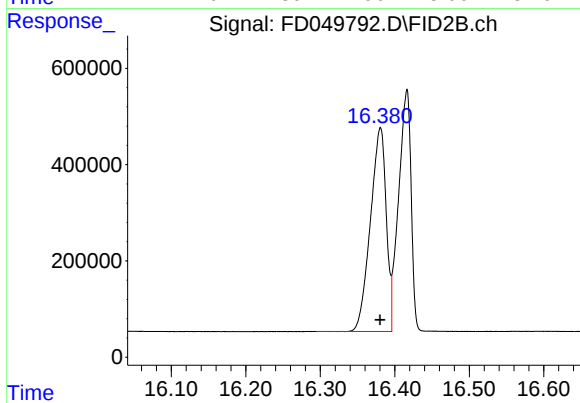
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.828 min
Delta R.T.: 0.000 min
Response: 6386519
Conc: 51.03 ug/ml



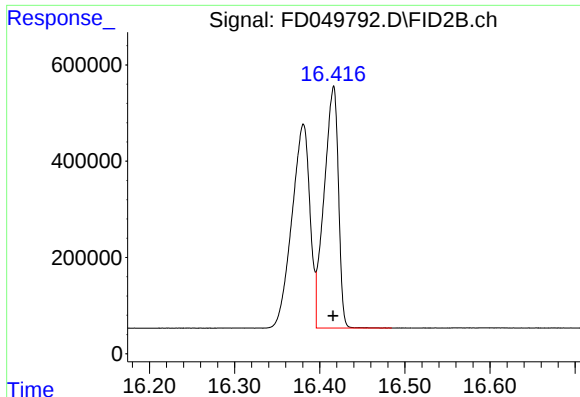
#15 Chrysene (C27.41)

R.T.: 14.873 min
Delta R.T.: 0.000 min
Response: 6476246
Conc: 50.98 ug/ml



#16 benzo[b]fluoranthene (C30.41)

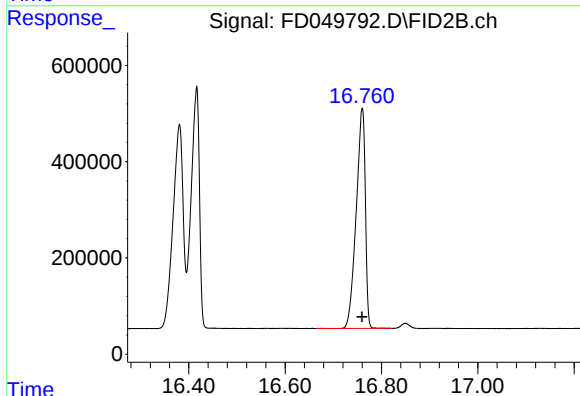
R.T.: 16.380 min
Delta R.T.: 0.000 min
Response: 6243749
Conc: 50.81 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

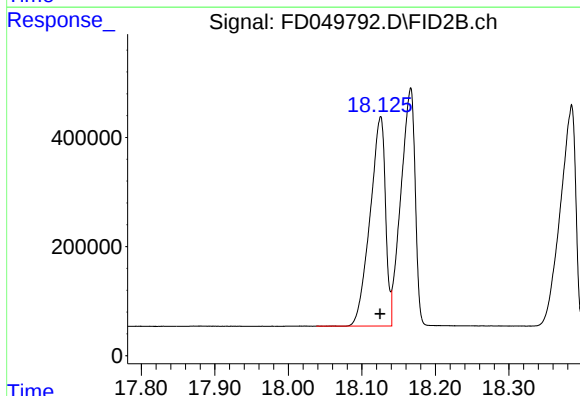
R.T.: 16.415 min
Delta R.T.: 0.000 min
Response: 5846863
Conc: 51.08 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



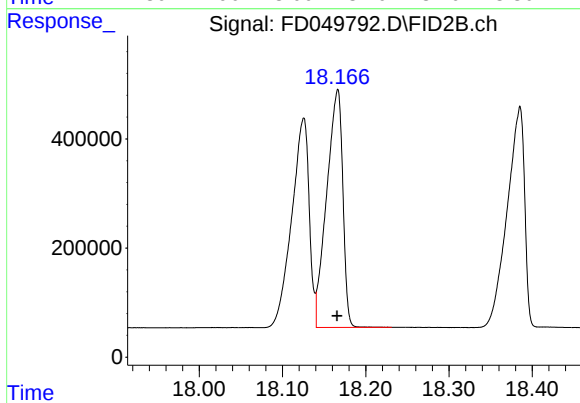
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.760 min
Delta R.T.: 0.000 min
Response: 6034196
Conc: 50.82 ug/ml



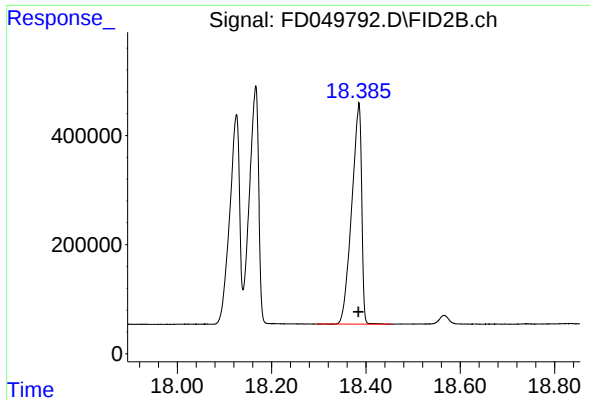
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.125 min
Delta R.T.: 0.000 min
Response: 5612991
Conc: 50.45 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.165 min
Delta R.T.: 0.000 min
Response: 5854820
Conc: 51.39 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.384 min
Delta R.T.: 0.000 min
Response: 5892870
Conc: 50.70 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049792.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 10:21
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.490	4.425	4.531	BV	661526	5643594	76.78%	4.174%
2	6.033	5.965	6.118	BB	722570	6603268	89.83%	4.884%
3	7.088	7.031	7.168	BB	724086	6914911	94.07%	5.115%
4	7.698	7.621	7.765	BB	623253	5936602	80.76%	4.391%
5	8.367	8.291	8.438	BB	743744	7224358	98.28%	5.344%
6	8.563	8.505	8.625	BV	439623	4268561	58.07%	3.157%
7	8.664	8.625	8.728	VB	718474	7230086	98.36%	5.348%
8	9.445	9.358	9.511	BB	698034	7263851	98.82%	5.373%
9	10.843	10.811	10.880	VV	688674	7319229	99.57%	5.414%
10	10.919	10.880	10.978	VV	628007	6813530	92.69%	5.040%
11	11.610	11.478	11.678	BB	688148	7350792	100.00%	5.437%
12	12.658	12.619	12.735	VB	624135	7188398	97.79%	5.317%
13	12.956	12.905	12.983	BV	633798	7092864	96.49%	5.246%
14	14.828	14.758	14.848	BV	481130	6386519	86.88%	4.724%
15	14.873	14.848	14.938	VB	576139	6476246	88.10%	4.790%
16	16.380	16.295	16.396	BV	426151	6243749	84.94%	4.618%
17	16.415	16.396	16.485	VB	493670	5846863	79.54%	4.325%
18	16.760	16.665	16.821	BB	464139	6034196	82.09%	4.463%
19	18.125	18.038	18.141	BV	382665	5612991	76.36%	4.152%
20	18.165	18.141	18.231	VB	429797	5854820	79.65%	4.331%
21	18.384	18.295	18.455	BB	403239	5892870	80.17%	4.359%
Sum of corrected areas:						135198299		

Aromatic EPH 100225.M Thu Oct 02 17:58:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049793.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 11:03
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD3
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 02 12:20:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 12:20:25 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.696	2212860	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
6) S 2-Fluorobiphenyl (SURR)	8.560	1580957	20.000 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.00%
11) S ortho-Terphenyl (SURR)	11.606	2774324	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.489	2105689	20.000 ug/ml
2) T Naphthalene (C11.7)	6.031	2452776	20.000 ug/ml
3) T 2-Methylnaphthalene (...)	7.085	2568613	20.000 ug/ml
5) T Acenaphthylene (C15.06)	8.363	2715957	20.000 ug/ml
7) T Acenaphthene (C15.5)	8.659	2713353	20.000 ug/ml
8) T Flouorene (C16.55)	9.441	2719657	20.000 ug/ml
9) T Phenanthrene (C19.36)	10.838	2722986	20.000 ug/ml
10) T Anthracene (C19.43)	10.912	2513829	20.000 ug/ml
12) T Fluoranthene (C21.85)	12.651	2636091	20.000 ug/ml
13) T Pyrene (C20.8)	12.949	2608820	20.000 ug/ml
14) T Benzo[a]anthracene (C...	14.820	2317428	20.000 ug/ml
15) T Chrysene (C27.41)	14.862	2364660	20.000 ug/ml
16) T benzo[b]fluoranthene ...	16.370	2294799	20.000 ug/ml
17) T Bnezo[k]fluoranthene ...	16.403	2178427	20.000 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.749	2249495	20.000 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.112	2082064	20.000 ug/ml
20) T Dibenz[a,h]anthracene...	18.153	2232750	20.000 ug/ml
21) T Benzo[g,h,i]perylene ...	18.367	2234163	20.000 ug/ml

(f)=RT Delta > 1/2 Window

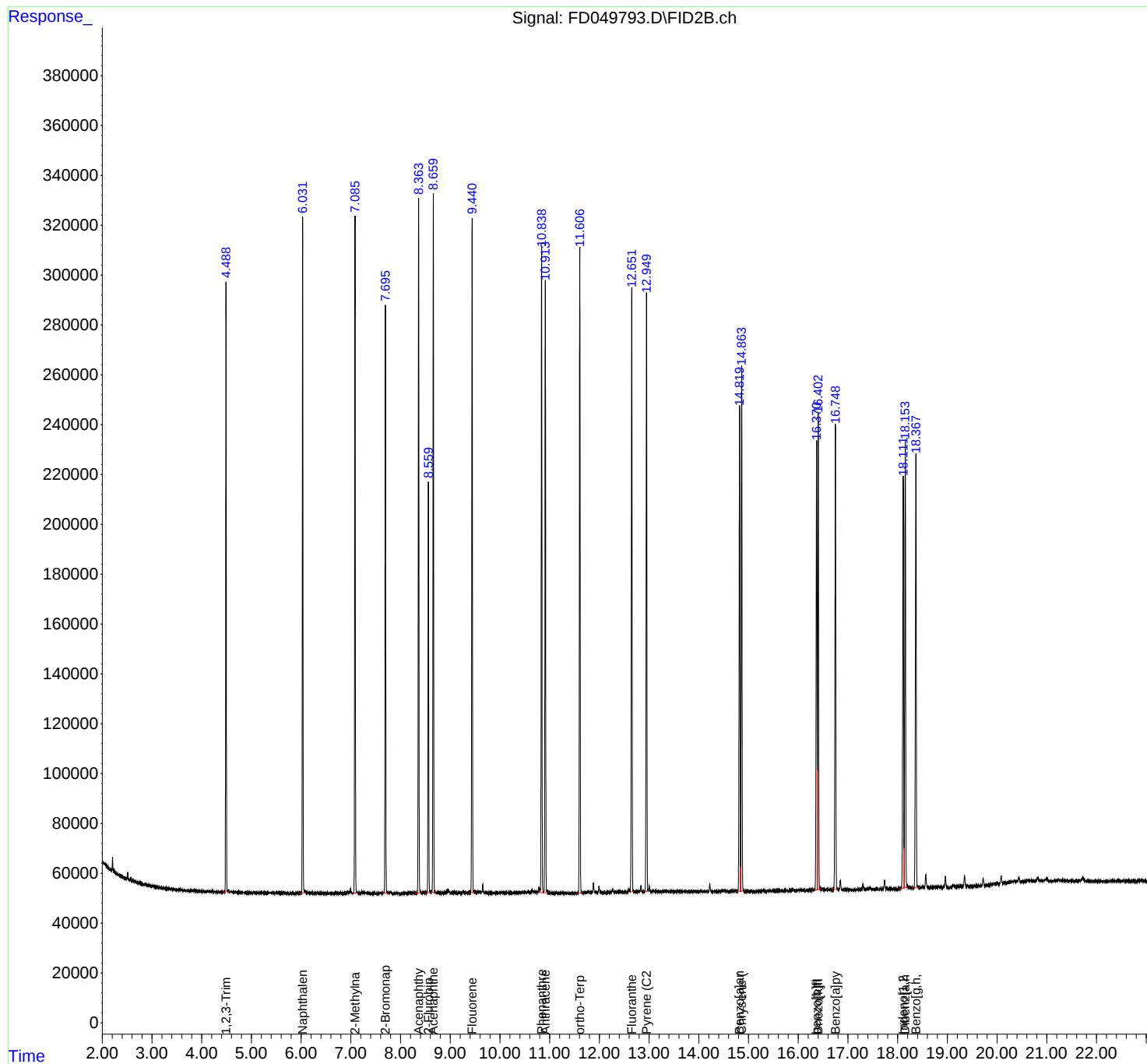
(m)=manual int.

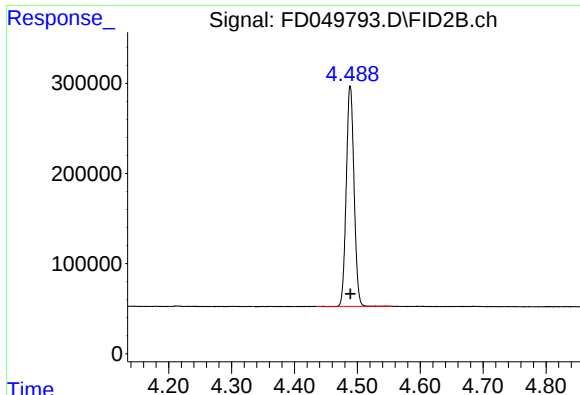
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049793.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 11:03
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 02 12:20:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 12:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

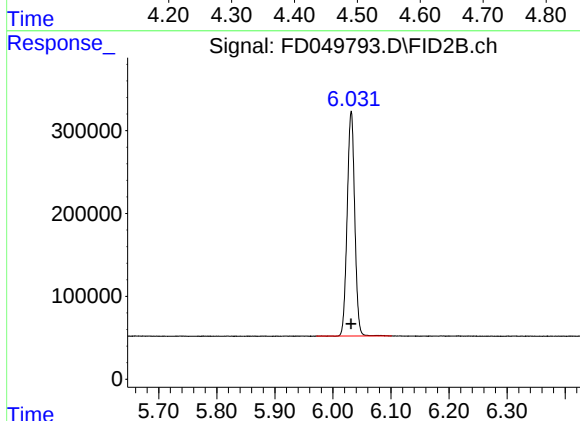




#1 1,2,3-Trimethylbenzene (C10.1)

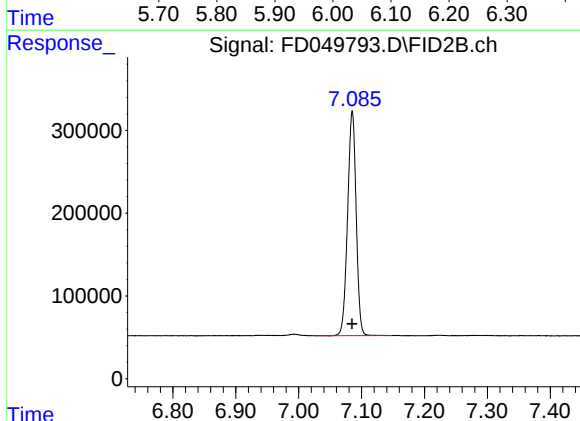
R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 2105689
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



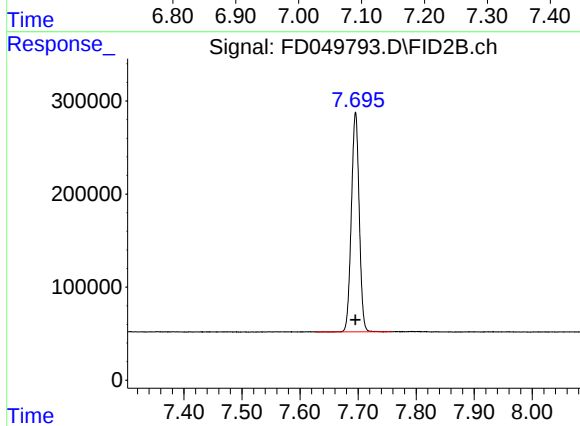
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 2452776
Conc: 20.00 ug/ml



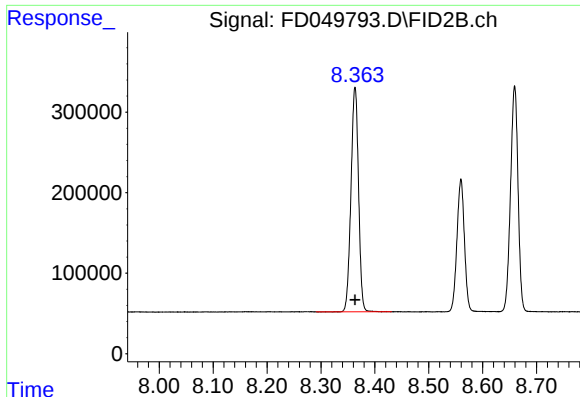
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.085 min
Delta R.T.: 0.000 min
Response: 2568613
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

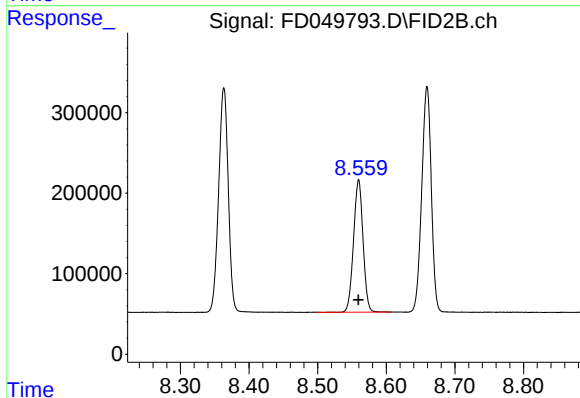
R.T.: 7.696 min
Delta R.T.: 0.000 min
Response: 2212860
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

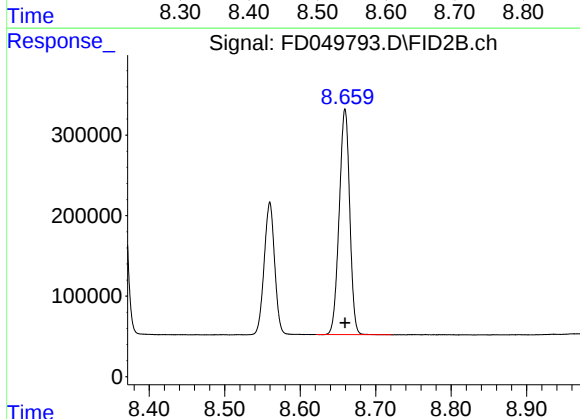
R.T.: 8.363 min
Delta R.T.: 0.000 min
Response: 2715957
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



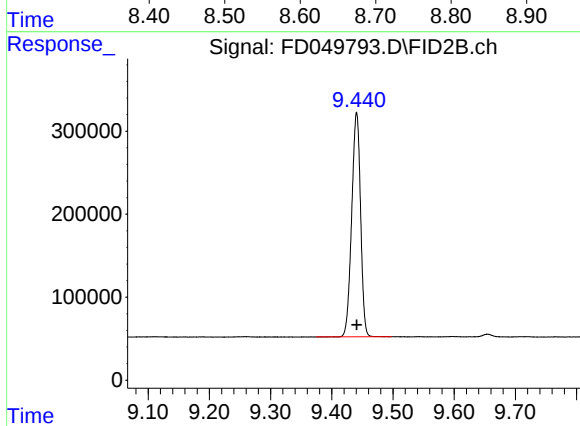
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 1580957
Conc: 20.00 ug/ml



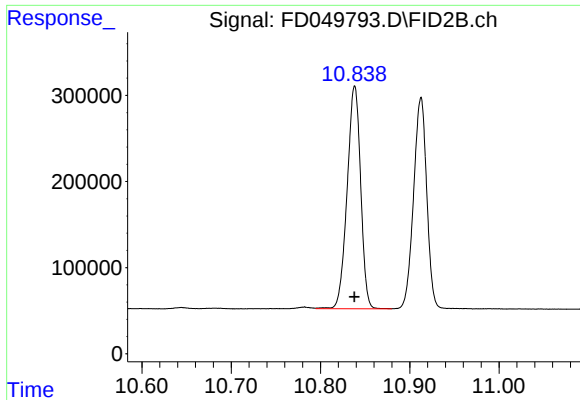
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 2713353
Conc: 20.00 ug/ml



#8 Fluorene (C16.55)

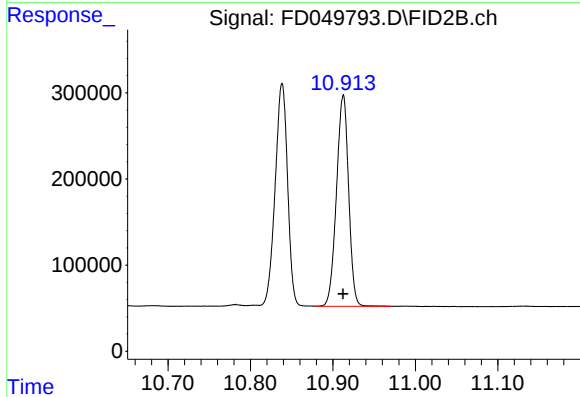
R.T.: 9.441 min
Delta R.T.: 0.000 min
Response: 2719657
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

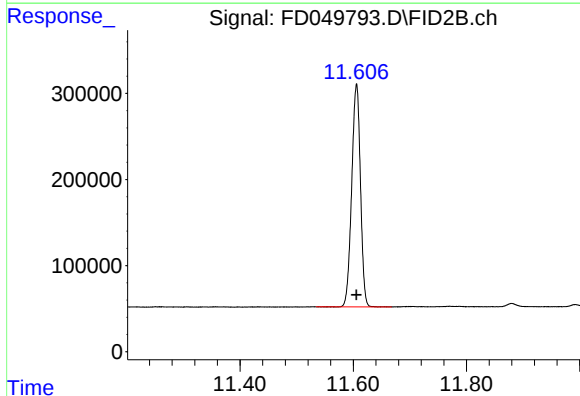
R.T.: 10.838 min
Delta R.T.: 0.000 min
Response: 2722986
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



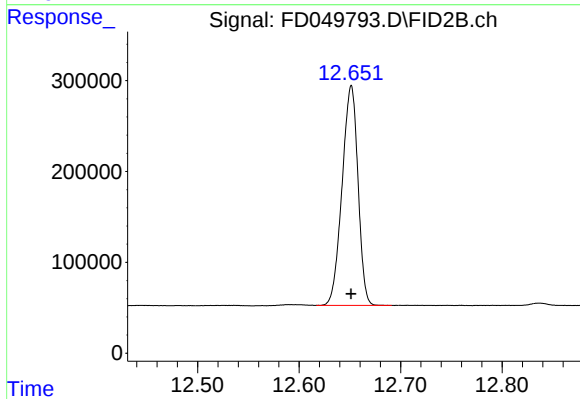
#10 Anthracene (C19.43)

R.T.: 10.912 min
Delta R.T.: 0.000 min
Response: 2513829
Conc: 20.00 ug/ml



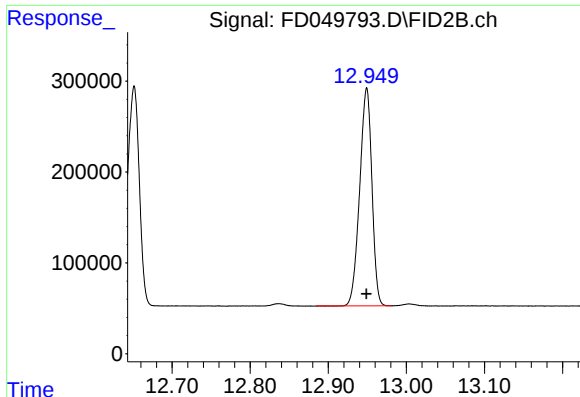
#11 ortho-Terphenyl (SURR)

R.T.: 11.606 min
Delta R.T.: 0.000 min
Response: 2774324
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

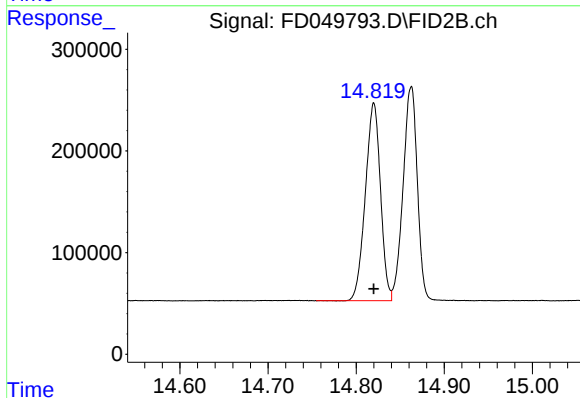
R.T.: 12.651 min
Delta R.T.: 0.000 min
Response: 2636091
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

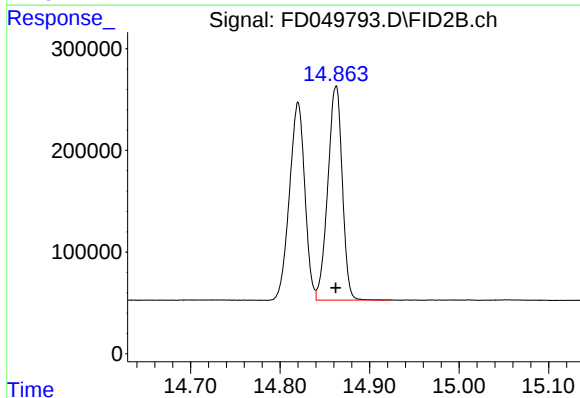
R.T.: 12.949 min
Delta R.T.: 0.000 min
Response: 2608820
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



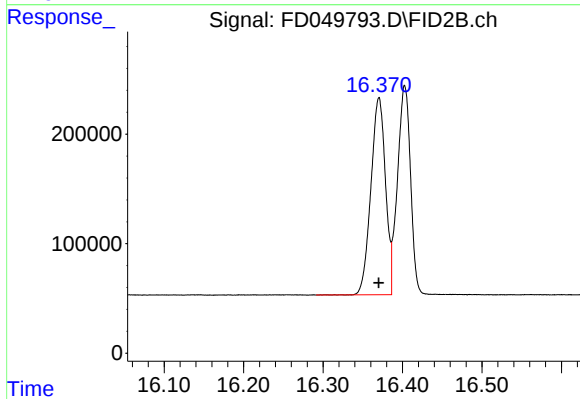
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.820 min
Delta R.T.: 0.000 min
Response: 2317428
Conc: 20.00 ug/ml



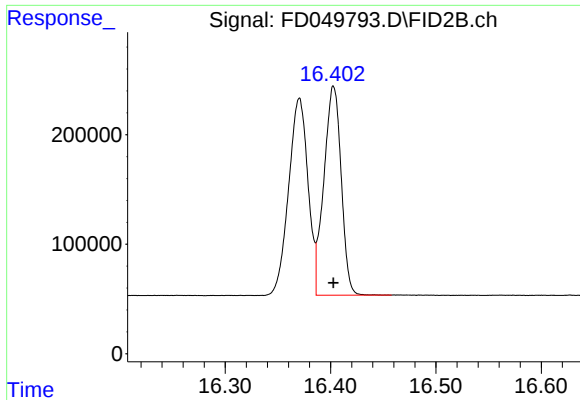
#15 Chrysene (C27.41)

R.T.: 14.862 min
Delta R.T.: 0.000 min
Response: 2364660
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

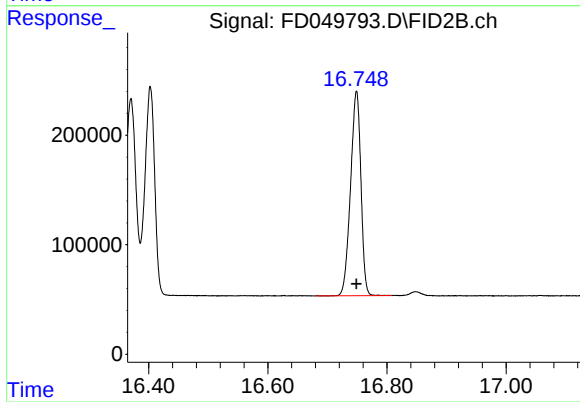
R.T.: 16.370 min
Delta R.T.: 0.000 min
Response: 2294799
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

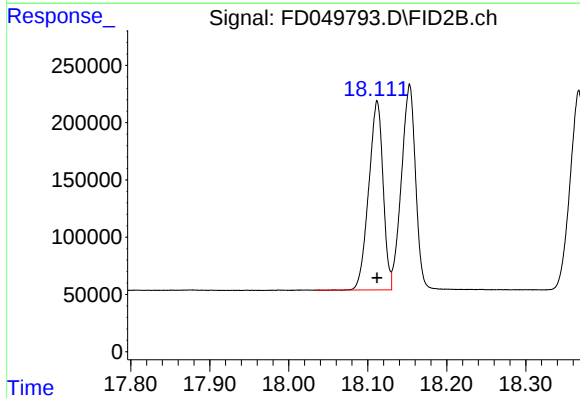
R.T.: 16.403 min
Delta R.T.: 0.000 min
Response: 2178427
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



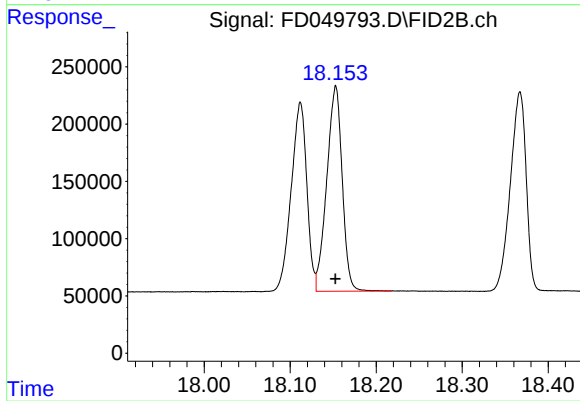
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.749 min
Delta R.T.: 0.000 min
Response: 2249495
Conc: 20.00 ug/ml



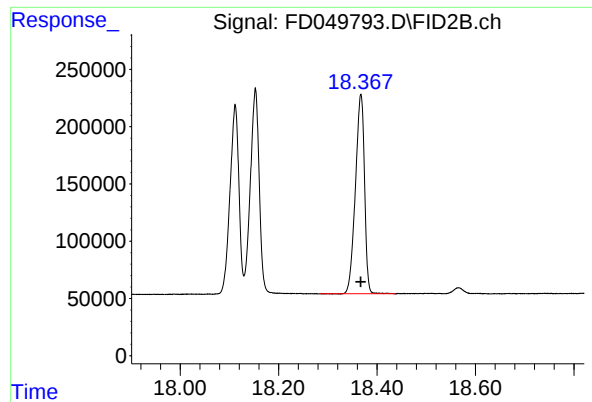
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.112 min
Delta R.T.: 0.000 min
Response: 2082064
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.153 min
Delta R.T.: 0.000 min
Response: 2232750
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.367 min
Delta R.T.: 0.000 min
Response: 2234163
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049793.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 11:03
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.489	4.435	4.555	BB	244964	2105689	75.90%	4.188%
2	6.031	5.971	6.101	BB	270363	2452776	88.41%	4.878%
3	7.085	7.028	7.148	BB	270197	2568613	92.59%	5.109%
4	7.696	7.628	7.758	BB	233804	2212860	79.76%	4.401%
5	8.363	8.291	8.431	BB	279944	2715957	97.90%	5.402%
6	8.560	8.498	8.608	BB	164425	1580957	56.99%	3.144%
7	8.659	8.621	8.721	BB	277965	2713353	97.80%	5.397%
8	9.441	9.375	9.498	BB	271187	2719657	98.03%	5.409%
9	10.838	10.795	10.880	VV	259050	2722986	98.15%	5.416%
10	10.912	10.880	10.971	VB	243607	2513829	90.61%	5.000%
11	11.606	11.535	11.668	BB	256870	2774324	100.00%	5.518%
12	12.651	12.617	12.691	VB	242221	2636091	95.02%	5.243%
13	12.949	12.885	12.981	BV	237532	2608820	94.03%	5.189%
14	14.820	14.755	14.840	BV	194958	2317428	83.53%	4.609%
15	14.862	14.840	14.925	VB	210669	2364660	85.23%	4.703%
16	16.370	16.291	16.386	BV	180116	2294799	82.72%	4.564%
17	16.403	16.386	16.458	VB	190261	2178427	78.52%	4.333%
18	16.749	16.681	16.808	BB	186364	2249495	81.08%	4.474%
19	18.112	18.035	18.130	BV	164543	2082064	75.05%	4.141%
20	18.153	18.130	18.218	VB	176381	2232750	80.48%	4.441%
21	18.367	18.285	18.438	BB	174860	2234163	80.53%	4.443%
Sum of corrected areas:							50279698	

Aromatic EPH 100225.M Thu Oct 02 17:59:15 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049794.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 11:44
 Operator : YP/AJ
 Sample : 10 PPM AROMATIC HC STD4
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 10 PPM AROMATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 02 12:26:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 12:20:25 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.695	1121613	9.658 ug/ml
Spiked Amount 50.000		Recovery =	19.32%
6) S 2-Fluorobiphenyl (SURR)	8.559	797850	9.598 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	19.20%
11) S ortho-Terphenyl (SURR)	11.604	1433684	9.889 ug/ml
Spiked Amount 50.000		Recovery =	19.78%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.489	1067300	9.662 ug/ml
2) T Naphthalene (C11.7)	6.031	1240935	9.617 ug/ml
3) T 2-Methylnaphthalene (...)	7.084	1297331	9.609 ug/ml
5) T Acenaphthylene (C15.06)	8.362	1391846	9.789 ug/ml
7) T Acenaphthene (C15.5)	8.658	1385186	9.753 ug/ml
8) T Flouorene (C16.55)	9.439	1387589	9.736 ug/ml
9) T Phenanthrene (C19.36)	10.836	1384009	9.673 ug/ml
10) T Anthracene (C19.43)	10.910	1285293	9.682 ug/ml
12) T Fluoranthene (C21.85)	12.649	1331086	9.557 ug/ml
13) T Pyrene (C20.8)	12.947	1316543	9.561 ug/ml
14) T Benzo[a]anthracene (C...	14.818	1175266	9.537 ug/ml
15) T Chrysene (C27.41)	14.860	1211361	9.648 ug/ml
16) T benzo[b]fluoranthene ...	16.367	1168552	9.628 ug/ml
17) T Bnezo[k]fluoranthene ...	16.398	1122024	9.851 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.745	1152013	9.774 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.108	1059628	9.639 ug/ml
20) T Dibenz[a,h]anthracene...	18.150	1201776	10.406 ug/ml
21) T Benzo[g,h,i]perylene ...	18.362	1152773	9.938 ug/ml

(f)=RT Delta > 1/2 Window

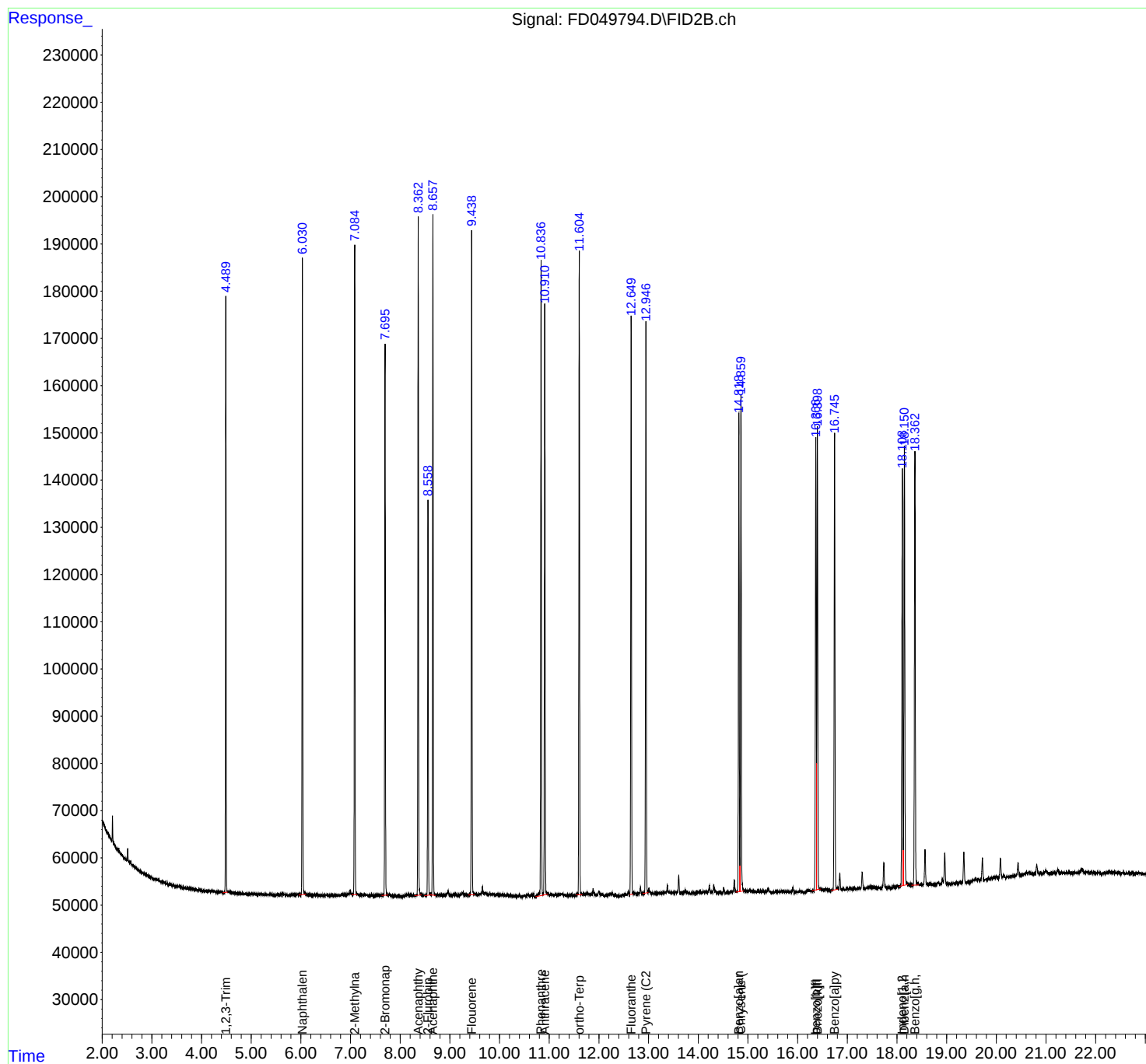
(m)=manual int.

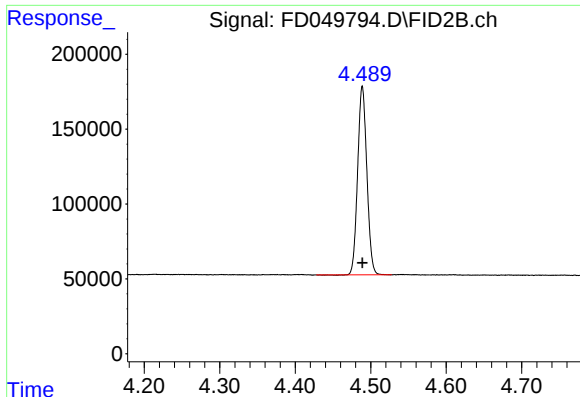
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049794.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 11:44
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 02 12:26:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 12:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

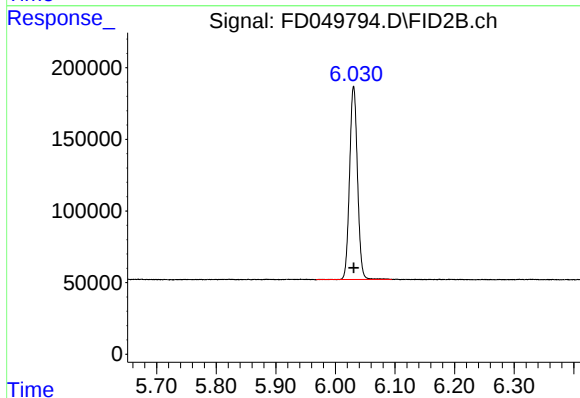




#1 1,2,3-Trimethylbenzene (C10.1)

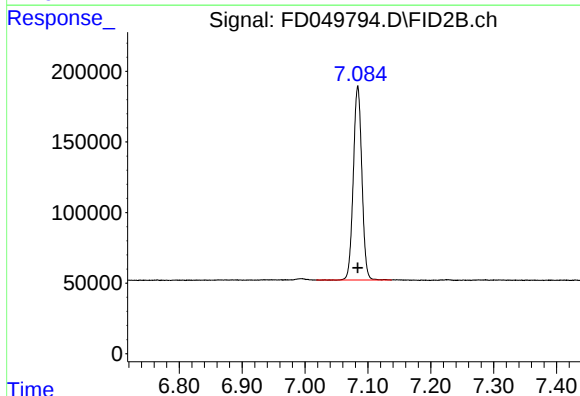
R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 1067300
Conc: 9.66 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



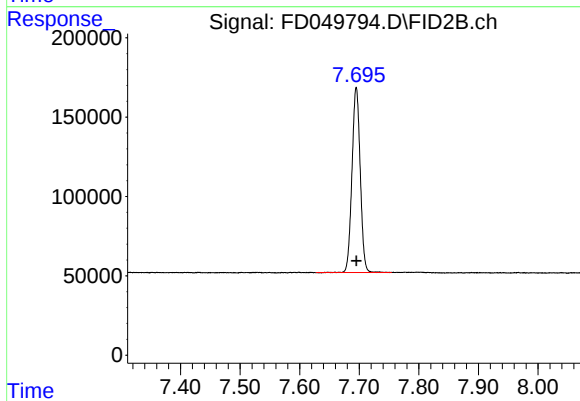
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 1240935
Conc: 9.62 ug/ml



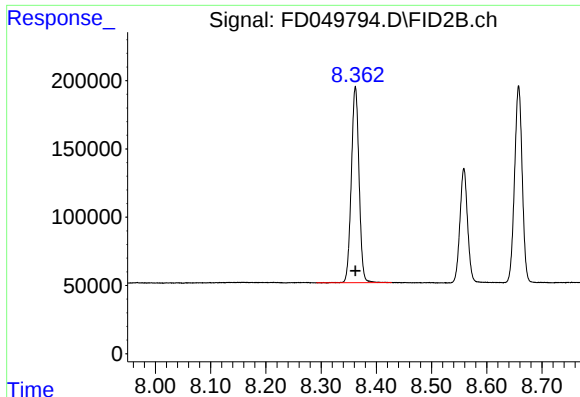
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.084 min
Delta R.T.: 0.000 min
Response: 1297331
Conc: 9.61 ug/ml



#4 2-Bromonaphthalene (SURR)

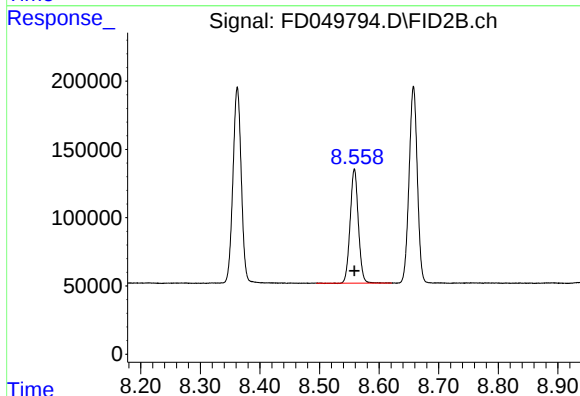
R.T.: 7.695 min
Delta R.T.: 0.000 min
Response: 1121613
Conc: 9.66 ug/ml



#5 Acenaphthylene (C15.06)

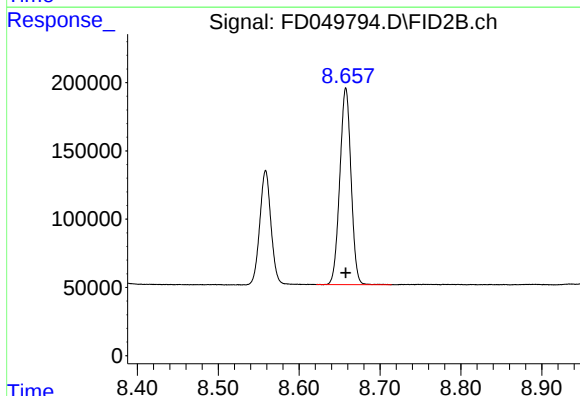
R.T.: 8.362 min
Delta R.T.: 0.000 min
Response: 1391846
Conc: 9.79 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



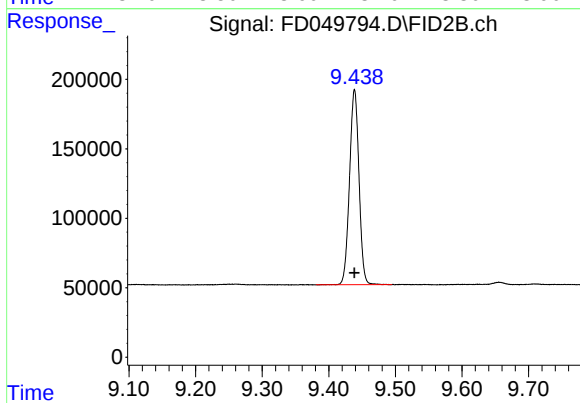
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.559 min
Delta R.T.: 0.000 min
Response: 797850
Conc: 9.60 ug/ml



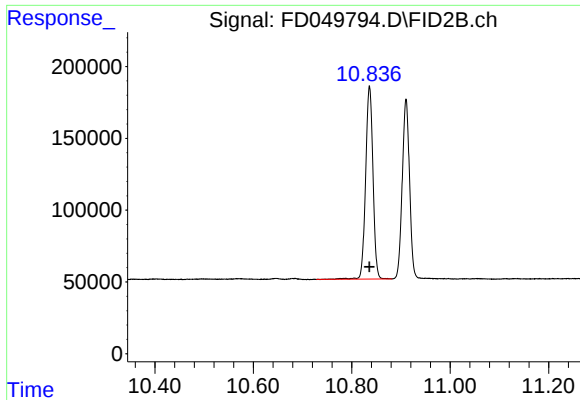
#7 Acenaphthene (C15.5)

R.T.: 8.658 min
Delta R.T.: 0.000 min
Response: 1385186
Conc: 9.75 ug/ml



#8 Fluorene (C16.55)

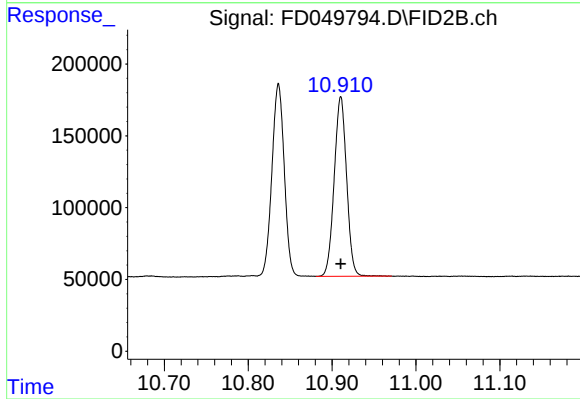
R.T.: 9.439 min
Delta R.T.: 0.000 min
Response: 1387589
Conc: 9.74 ug/ml



#9 Phenanthrene (C19.36)

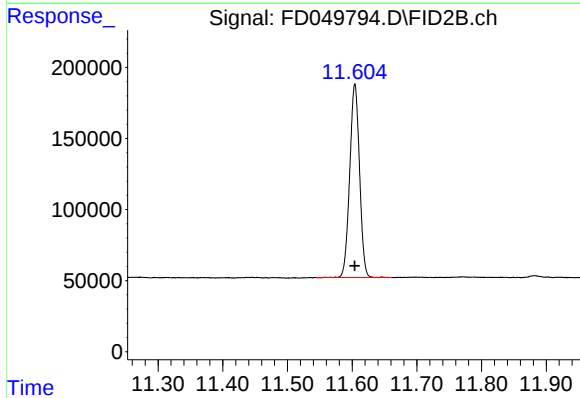
R.T.: 10.836 min
Delta R.T.: 0.000 min
Response: 1384009
Conc: 9.67 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



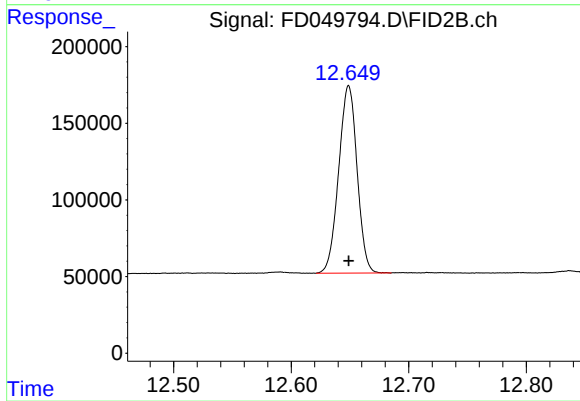
#10 Anthracene (C19.43)

R.T.: 10.910 min
Delta R.T.: 0.000 min
Response: 1285293
Conc: 9.68 ug/ml



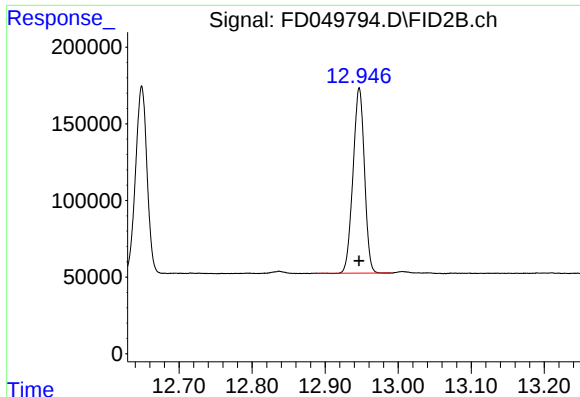
#11 ortho-Terphenyl (SURR)

R.T.: 11.604 min
Delta R.T.: 0.000 min
Response: 1433684
Conc: 9.89 ug/ml



#12 Fluoranthene (C21.85)

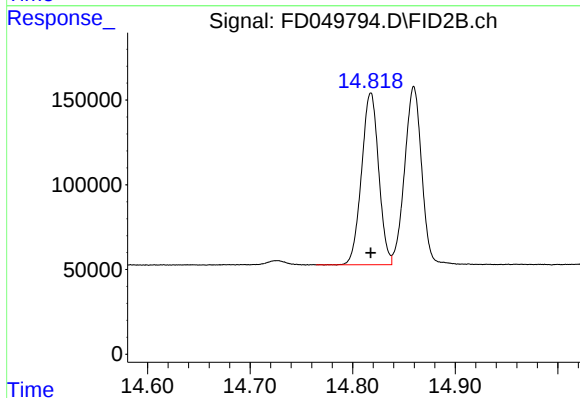
R.T.: 12.649 min
Delta R.T.: 0.000 min
Response: 1331086
Conc: 9.56 ug/ml



#13 Pyrene (C20.8)

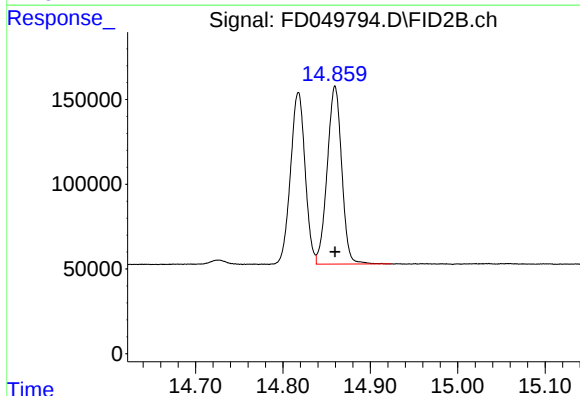
R.T.: 12.947 min
Delta R.T.: 0.000 min
Response: 1316543
Conc: 9.56 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



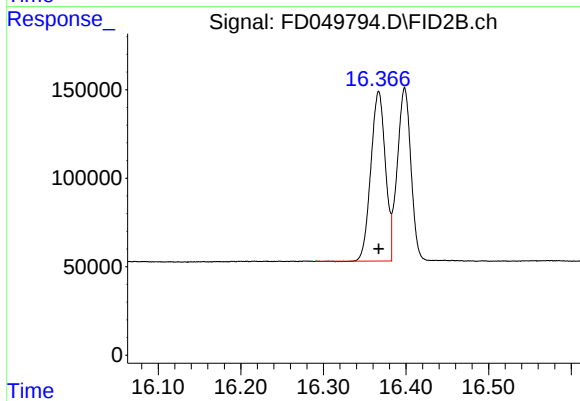
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.818 min
Delta R.T.: 0.000 min
Response: 1175266
Conc: 9.54 ug/ml



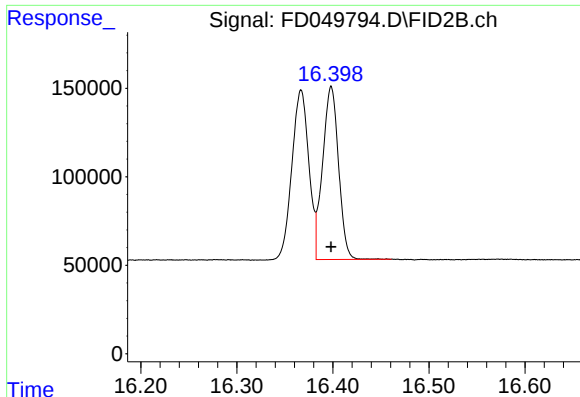
#15 Chrysene (C27.41)

R.T.: 14.860 min
Delta R.T.: 0.000 min
Response: 1211361
Conc: 9.65 ug/ml



#16 benzo[b]fluoranthene (C30.41)

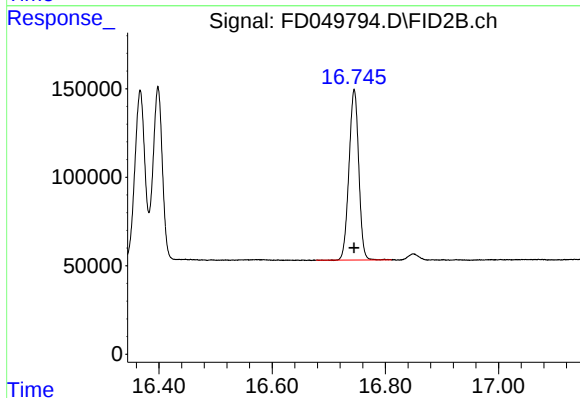
R.T.: 16.367 min
Delta R.T.: 0.000 min
Response: 1168552
Conc: 9.63 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

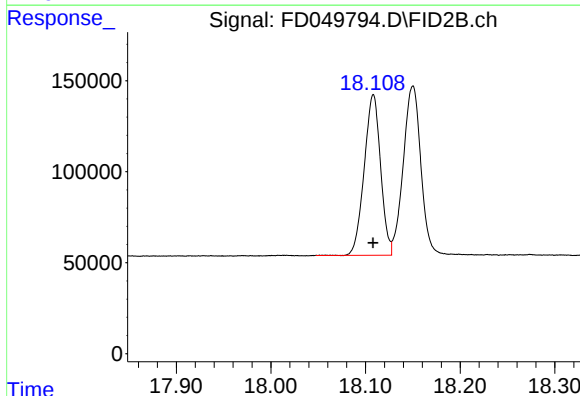
R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 1122024
Conc: 9.85 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



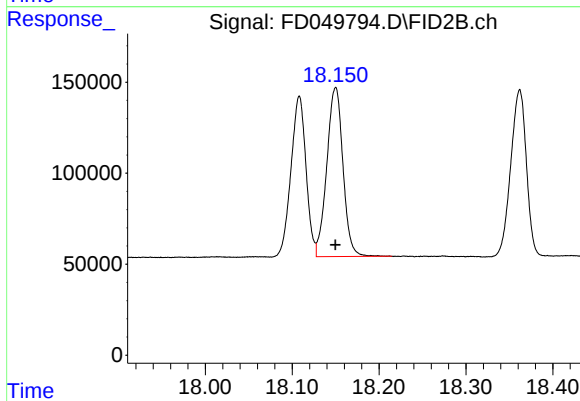
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.745 min
Delta R.T.: 0.000 min
Response: 1152013
Conc: 9.77 ug/ml



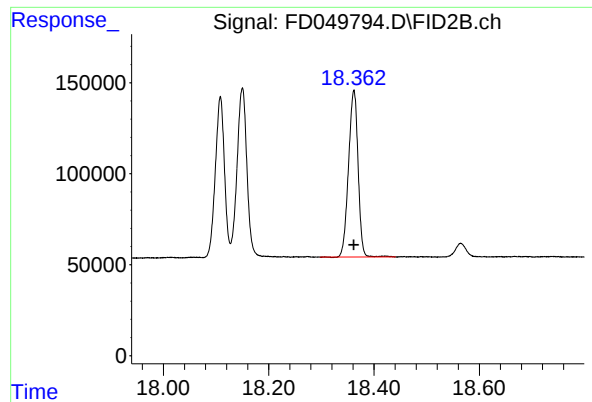
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.108 min
Delta R.T.: 0.000 min
Response: 1059628
Conc: 9.64 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.150 min
Delta R.T.: 0.000 min
Response: 1201776
Conc: 10.41 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.362 min
Delta R.T.: 0.000 min
Response: 1152773
Conc: 9.94 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049794.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 11:44
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.489	4.428	4.528	BB	124889	1067300	74.44%	4.156%
2	6.031	5.968	6.094	BB	134670	1240935	86.56%	4.832%
3	7.084	7.018	7.138	BB	136894	1297331	90.49%	5.051%
4	7.695	7.628	7.754	BB	116650	1121613	78.23%	4.367%
5	8.362	8.291	8.428	BB	142959	1391846	97.08%	5.419%
6	8.559	8.494	8.621	BB	83215	797850	55.65%	3.106%
7	8.658	8.621	8.714	BB	143942	1385186	96.62%	5.393%
8	9.439	9.381	9.494	BB	139735	1387589	96.78%	5.403%
9	10.836	10.728	10.881	BV	132859	1384009	96.54%	5.389%
10	10.910	10.881	10.971	VB	125294	1285293	89.65%	5.004%
11	11.604	11.544	11.661	BB	136171	1433684	100.00%	5.582%
12	12.649	12.621	12.685	BB	121892	1331086	92.84%	5.183%
13	12.947	12.888	12.991	BV	121005	1316543	91.83%	5.126%
14	14.818	14.764	14.838	BV	101559	1175266	81.98%	4.576%
15	14.860	14.838	14.924	VB	105058	1211361	84.49%	4.716%
16	16.367	16.291	16.382	BV	96093	1168552	81.51%	4.550%
17	16.398	16.382	16.461	VB	97624	1122024	78.26%	4.369%
18	16.745	16.678	16.811	BB	96277	1152013	80.35%	4.485%
19	18.108	18.048	18.128	BV	88268	1059628	73.91%	4.126%
20	18.150	18.128	18.214	VB	93493	1201776	83.82%	4.679%
21	18.362	18.298	18.441	BB	91459	1152773	80.41%	4.488%
Sum of corrected areas:						25683659		

Aromatic EPH 100225.M Thu Oct 02 17:59:38 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049795.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 12:26
 Operator : YP/AJ
 Sample : 5 PPM AROMATIC HC STD5
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 5 PPM AROMATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 02 17:49:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:49:01 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.695	647815	5.452 ug/ml
Spiked Amount 50.000		Recovery =	10.90%
6) S 2-Fluorobiphenyl (SURR)	8.559	460004	5.418 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	10.84%
11) S ortho-Terphenyl (SURR)	11.605	832449	5.576 ug/ml
Spiked Amount 50.000		Recovery =	11.15%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.490	631885	5.560 ug/ml
2) T Naphthalene (C11.7)	6.031	717794	5.440 ug/ml
3) T 2-Methylnaphthalene (...)	7.084	758806	5.484 ug/ml
5) T Acenaphthylene (C15.06)	8.362	808838	5.536 ug/ml
7) T Acenaphthene (C15.5)	8.657	799705	5.492 ug/ml
8) T Fluorene (C16.55)	9.438	800622	5.482 ug/ml
9) T Phenanthrene (C19.36)	10.836	792782	5.423 ug/ml
10) T Anthracene (C19.43)	10.910	742335	5.463 ug/ml
12) T Fluoranthene (C21.85)	12.649	775923	5.446 ug/ml
13) T Pyrene (C20.8)	12.946	760412	5.409 ug/ml
14) T Benzo[a]anthracene (C...	14.817	679446	5.402 ug/ml
15) T Chrysene (C27.41)	14.858	700625	5.454 ug/ml
16) T benzo[b]fluoranthene ...	16.366	686760	5.513 ug/ml
17) T Bnezo[k]fluoranthene ...	16.397	658709	5.608 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.744	676758	5.577 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.107	612429	5.447 ug/ml
20) T Dibenz[a,h]anthracene...	18.149	746709	6.108 ug/ml
21) T Benzo[g,h,i]perylene ...	18.360	670210	5.604 ug/ml

(f)=RT Delta > 1/2 Window

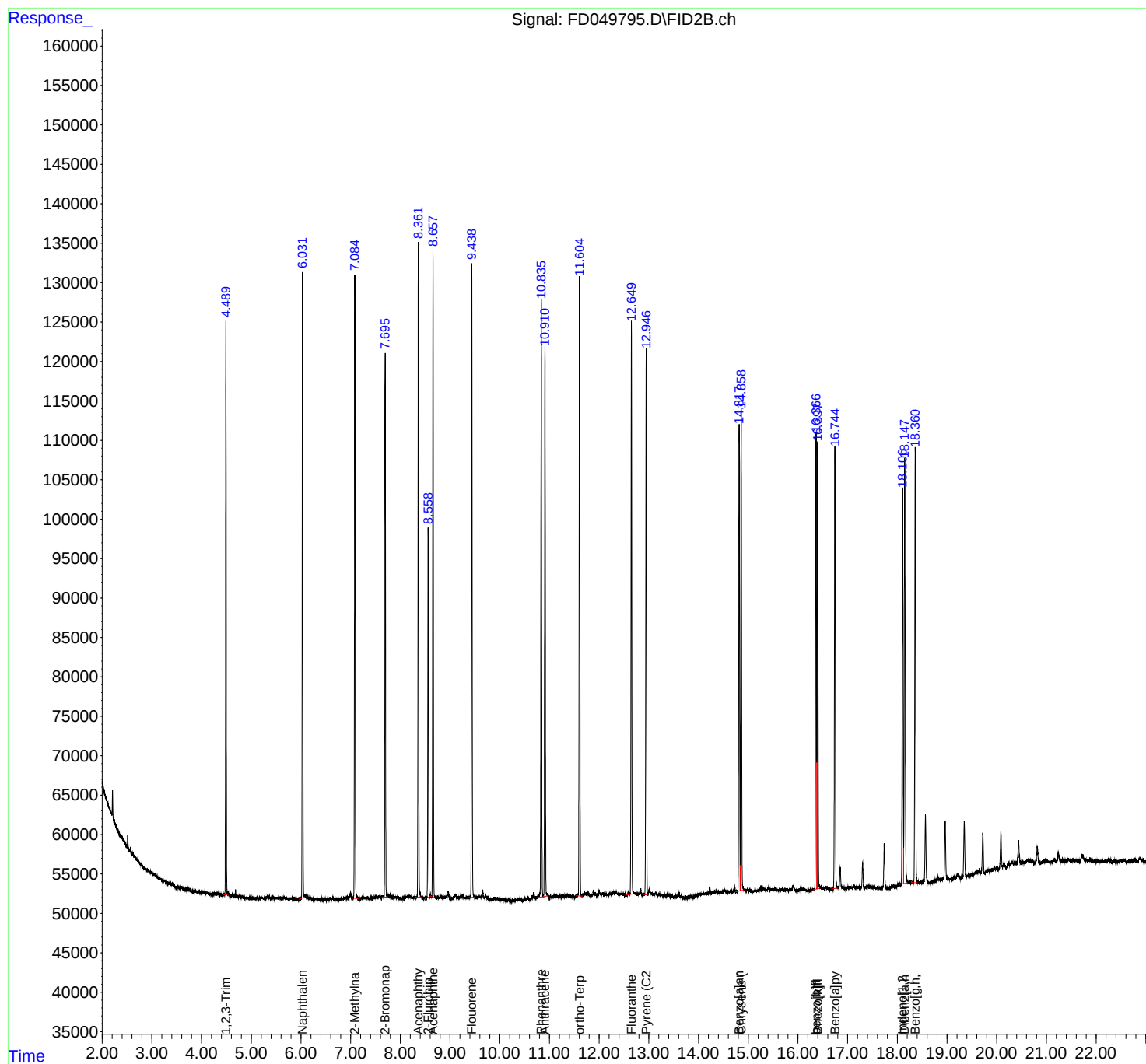
(m)=manual int.

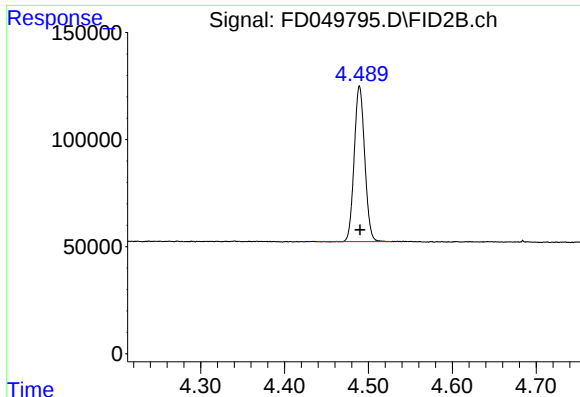
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049795.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 12:26
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 02 17:49:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:49:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

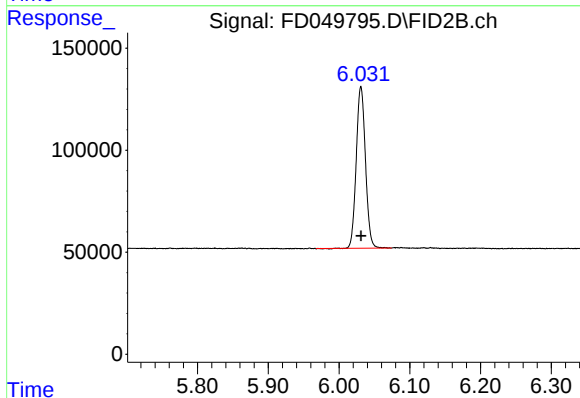




#1 1,2,3-Trimethylbenzene (C10.1)

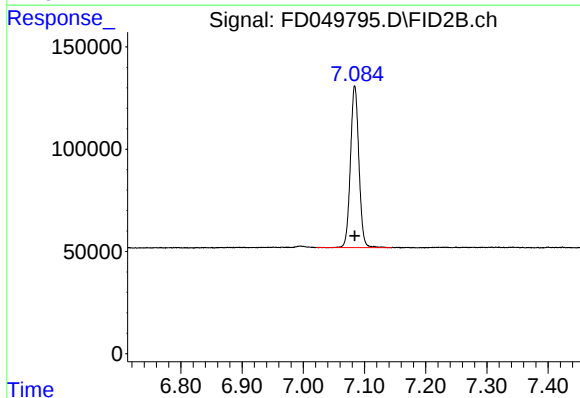
R.T.: 4.490 min
Delta R.T.: 0.000 min
Response: 631885
Conc: 5.56 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



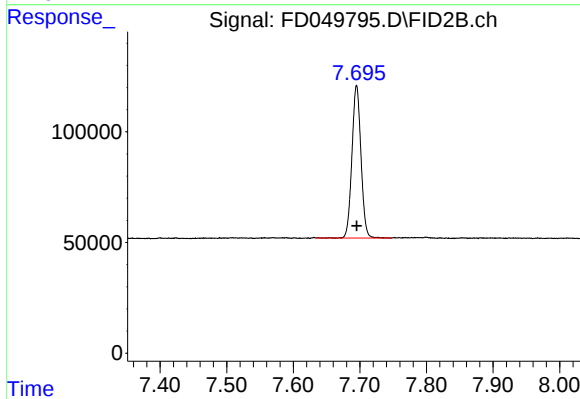
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 717794
Conc: 5.44 ug/ml



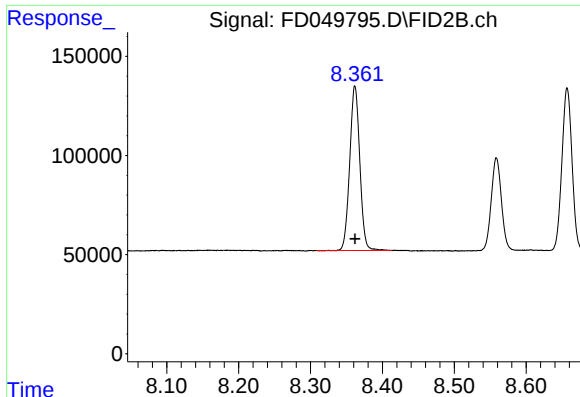
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.084 min
Delta R.T.: 0.000 min
Response: 758806
Conc: 5.48 ug/ml



#4 2-Bromonaphthalene (SURR)

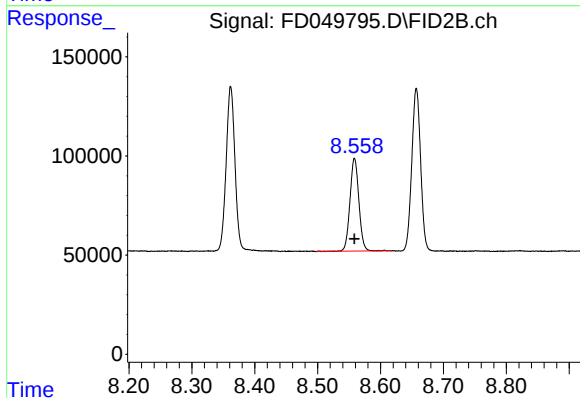
R.T.: 7.695 min
Delta R.T.: 0.000 min
Response: 647815
Conc: 5.45 ug/ml



#5 Acenaphthylene (C15.06)

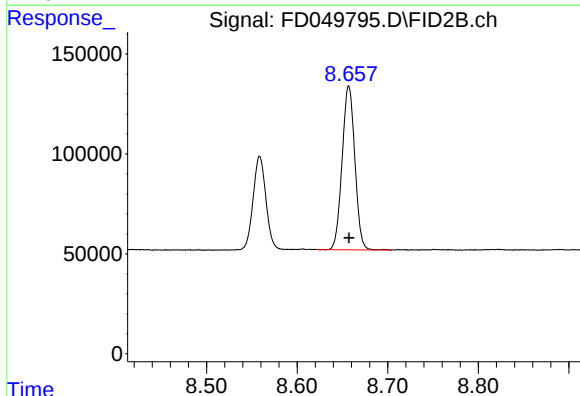
R.T.: 8.362 min
Delta R.T.: 0.000 min
Response: 808838
Conc: 5.54 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



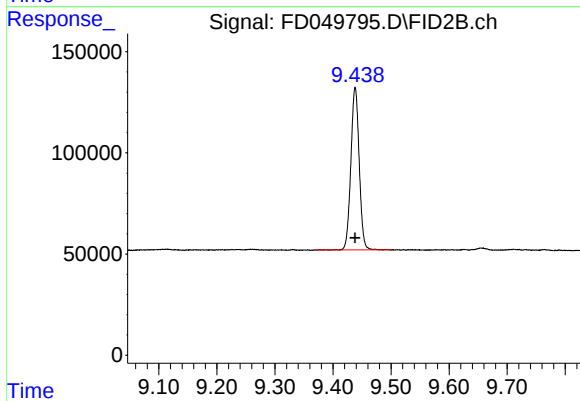
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.559 min
Delta R.T.: 0.000 min
Response: 460004
Conc: 5.42 ug/ml



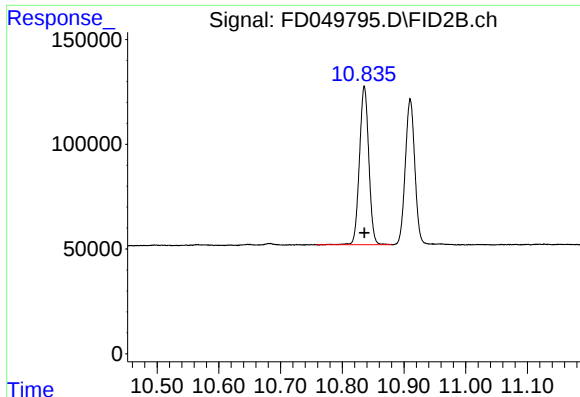
#7 Acenaphthene (C15.5)

R.T.: 8.657 min
Delta R.T.: 0.000 min
Response: 799705
Conc: 5.49 ug/ml



#8 Fluorene (C16.55)

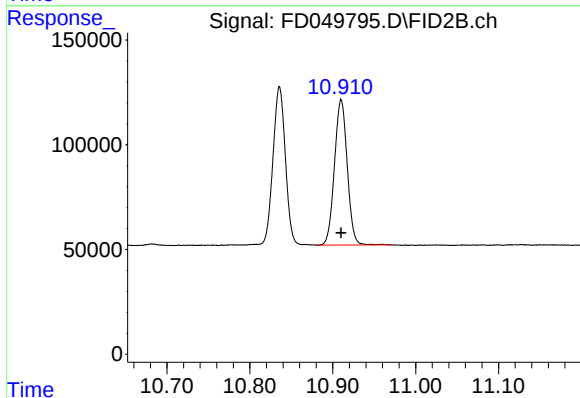
R.T.: 9.438 min
Delta R.T.: 0.000 min
Response: 800622
Conc: 5.48 ug/ml



#9 Phenanthrene (C19.36)

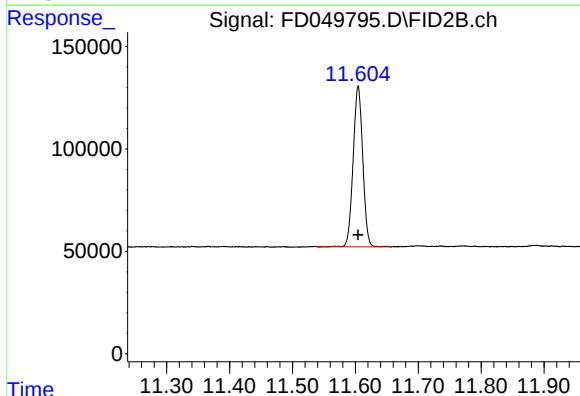
R.T.: 10.836 min
Delta R.T.: 0.000 min
Response: 792782
Conc: 5.42 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



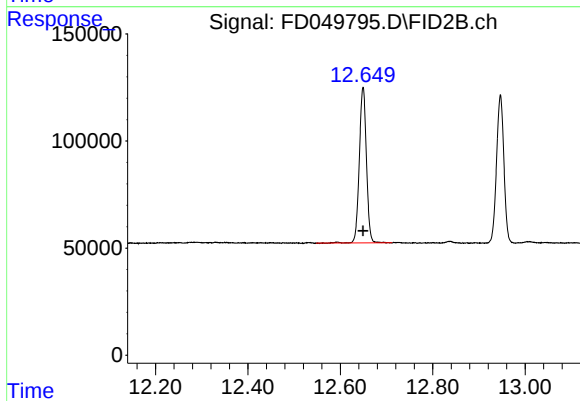
#10 Anthracene (C19.43)

R.T.: 10.910 min
Delta R.T.: 0.000 min
Response: 742335
Conc: 5.46 ug/ml



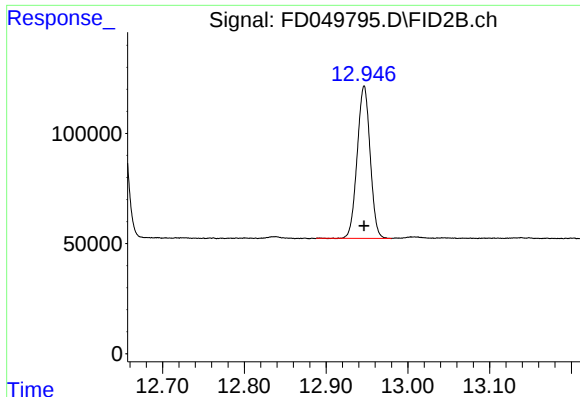
#11 ortho-Terphenyl (SURR)

R.T.: 11.605 min
Delta R.T.: 0.000 min
Response: 832449
Conc: 5.58 ug/ml



#12 Fluoranthene (C21.85)

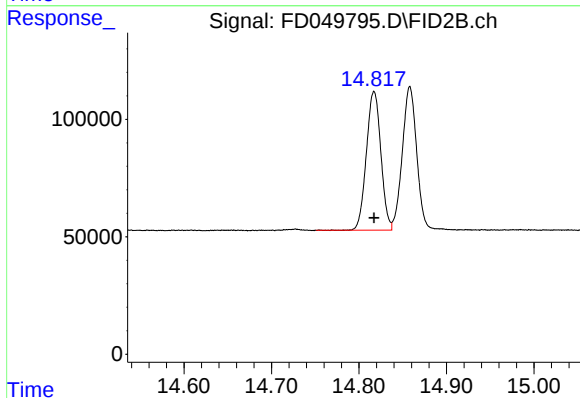
R.T.: 12.649 min
Delta R.T.: 0.000 min
Response: 775923
Conc: 5.45 ug/ml



#13 Pyrene (C20.8)

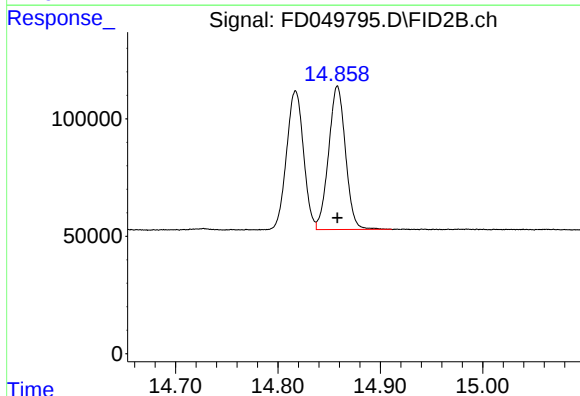
R.T.: 12.946 min
Delta R.T.: 0.000 min
Response: 760412
Conc: 5.41 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



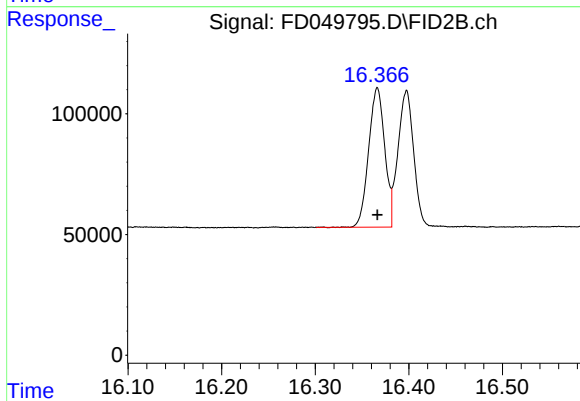
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.817 min
Delta R.T.: 0.000 min
Response: 679446
Conc: 5.40 ug/ml



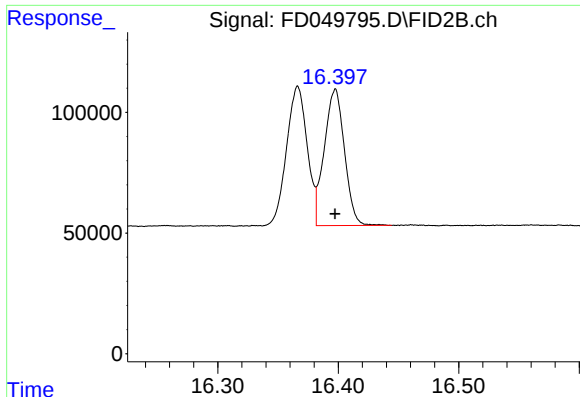
#15 Chrysene (C27.41)

R.T.: 14.858 min
Delta R.T.: 0.000 min
Response: 700625
Conc: 5.45 ug/ml



#16 benzo[b]fluoranthene (C30.41)

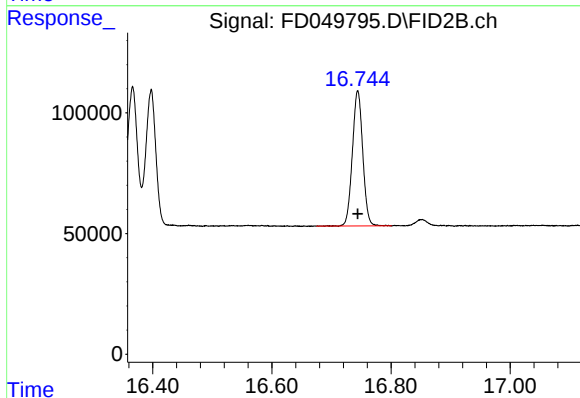
R.T.: 16.366 min
Delta R.T.: 0.000 min
Response: 686760
Conc: 5.51 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

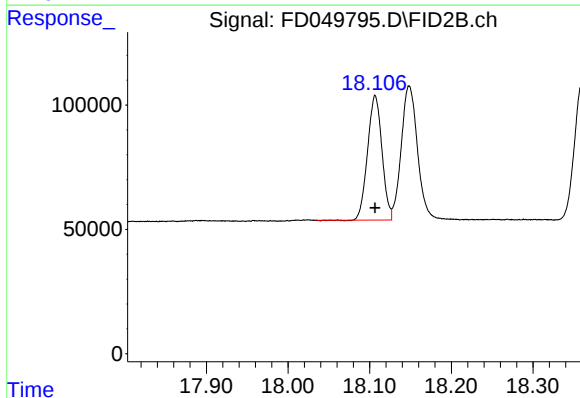
R.T.: 16.397 min
Delta R.T.: 0.000 min
Response: 658709
Conc: 5.61 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



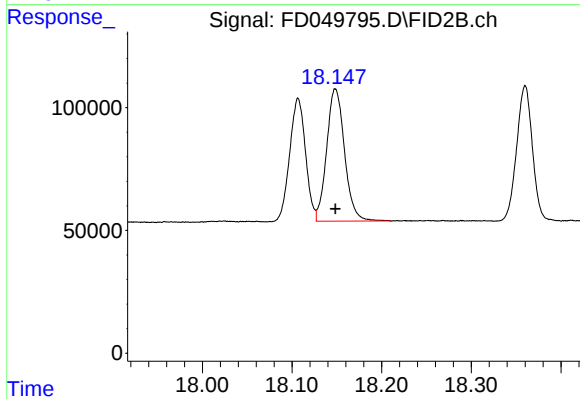
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.744 min
Delta R.T.: 0.000 min
Response: 676758
Conc: 5.58 ug/ml



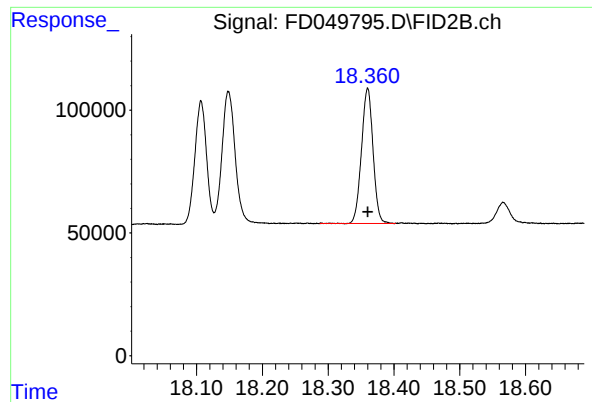
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.107 min
Delta R.T.: 0.000 min
Response: 612429
Conc: 5.45 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.149 min
Delta R.T.: 0.000 min
Response: 746709
Conc: 6.11 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.360 min
Delta R.T.: 0.000 min
Response: 670210
Conc: 5.60 ug/ml

Instrument :

FID_D

ClientSampleId :

5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049795.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 12:26
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.490	4.438	4.528	BB	71695	631885	75.91%	4.224%
2	6.031	5.968	6.074	BB	79140	717794	86.23%	4.798%
3	7.084	7.021	7.144	BB	79119	758806	91.15%	5.072%
4	7.695	7.634	7.748	BB	68756	647815	77.82%	4.330%
5	8.362	8.308	8.413	BB	82931	808838	97.16%	5.406%
6	8.559	8.498	8.618	BB	46767	460004	55.26%	3.075%
7	8.657	8.621	8.704	BB	81895	799705	96.07%	5.345%
8	9.438	9.371	9.501	BB	80195	800622	96.18%	5.351%
9	10.836	10.758	10.880	BV	75238	792782	95.23%	5.299%
10	10.910	10.880	10.971	PB	69350	742335	89.17%	4.962%
11	11.605	11.538	11.658	BB	78397	832449	100.00%	5.564%
12	12.649	12.548	12.711	BB	72239	775923	93.21%	5.186%
13	12.946	12.888	12.980	BV	69197	760412	91.35%	5.083%
14	14.817	14.751	14.837	BV	59082	679446	81.62%	4.541%
15	14.858	14.837	14.911	VB	61108	700625	84.16%	4.683%
16	16.366	16.301	16.382	BV	57788	686760	82.50%	4.590%
17	16.397	16.382	16.444	VB	56528	658709	79.13%	4.403%
18	16.744	16.674	16.801	BB	56077	676758	81.30%	4.523%
19	18.107	18.034	18.127	BV	49934	612429	73.57%	4.093%
20	18.149	18.127	18.211	VB	53876	746709	89.70%	4.991%
21	18.360	18.288	18.402	BB	55360	670210	80.51%	4.480%
Sum of corrected areas:						14961015		

Aromatic EPH 100225.M Thu Oct 02 18:00:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049796.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 13:09
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD ICV
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 02 17:50:43 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.696	2142320	18.031 ug/ml
Spiked Amount 50.000		Recovery =	36.06%
6) S 2-Fluorobiphenyl (SURR)	8.560	1535927	18.091 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	36.18%
11) S ortho-Terphenyl (SURR)	11.605	2694154	18.047 ug/ml
Spiked Amount 50.000		Recovery =	36.09%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.488	2048815	18.029 ug/ml
2) T Naphthalene (C11.7)	6.031	2385418	18.080 ug/ml
3) T 2-Methylnaphthalene (...)	7.085	2492740	18.016 ug/ml
5) T Acenaphthylene (C15.06)	8.363	2633294	18.024 ug/ml
7) T Acenaphthene (C15.5)	8.659	2631149	18.070 ug/ml
8) T Flouorene (C16.55)	9.440	2645074	18.112 ug/ml
9) T Phenanthrene (C19.36)	10.838	2634207	18.020 ug/ml
10) T Anthracene (C19.43)	10.913	2531114	18.626 ug/ml
12) T Fluoranthene (C21.85)	12.651	2549562	17.896 ug/ml
13) T Pyrene (C20.8)	12.949	2513219	17.878 ug/ml
14) T Benzo[a]anthracene (C...	14.821	2229772	17.729 ug/ml
15) T Chrysene (C27.41)	14.863	2267078	17.647 ug/ml
16) T benzo[b]fluoranthene ...	16.371	2192575	17.602 ug/ml
17) T Bnezo[k]fluoranthene ...	16.403	2077138	17.683 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.749	2143280	17.661 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.112	1963429	17.462 ug/ml
20) T Dibenz[a,h]anthracene...	18.153	2059645	16.847 ug/ml
21) T Benzo[g,h,i]perylene ...	18.367	2106918	17.616 ug/ml

(f)=RT Delta > 1/2 Window

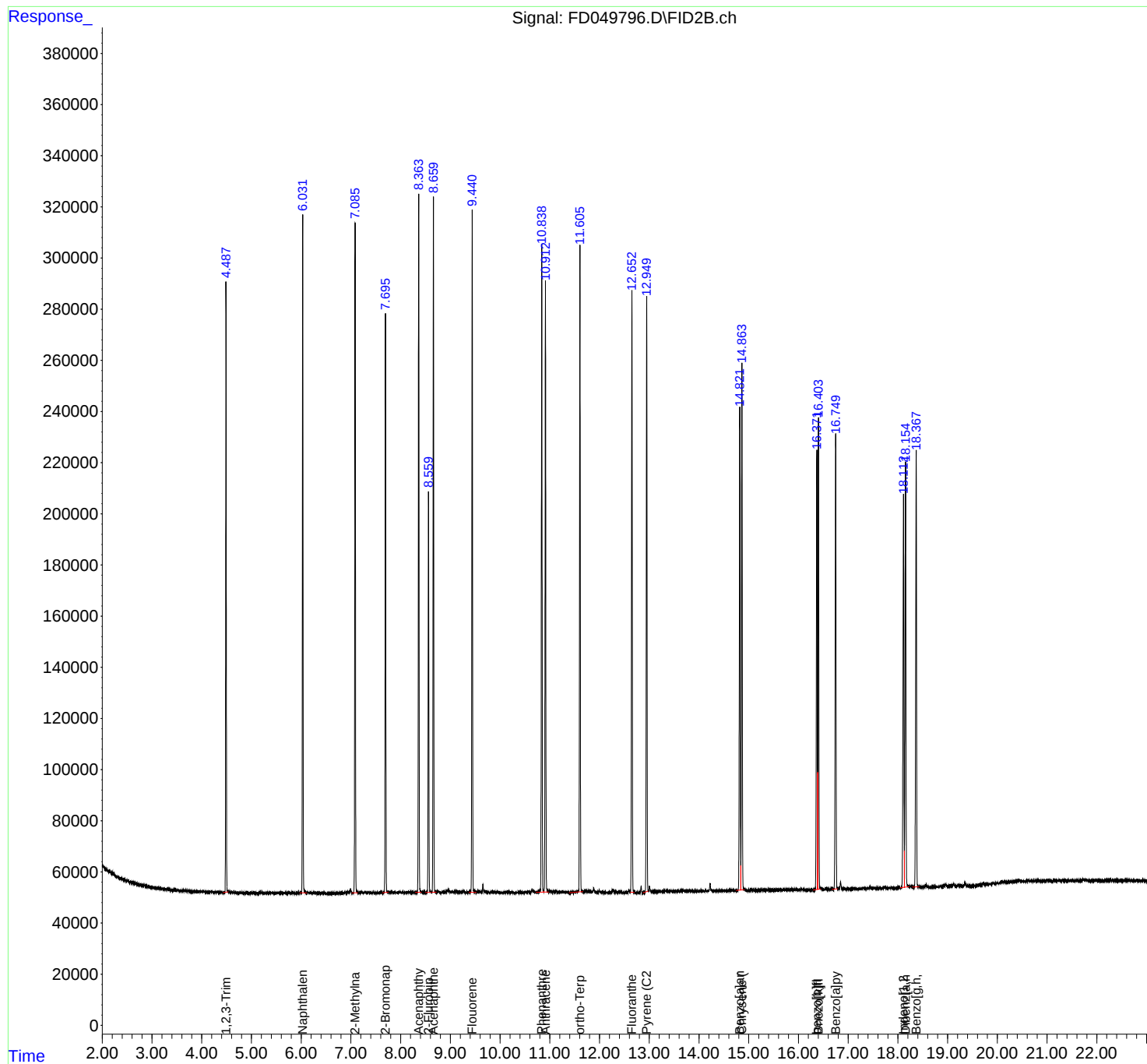
(m)=manual int.

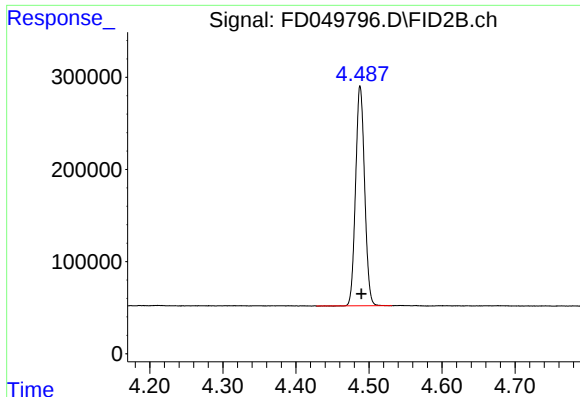
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
Data File : FD049796.D
Signal(s) : FID2B.ch
Acq On : 02 Oct 2025 13:09
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 02 17:50:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

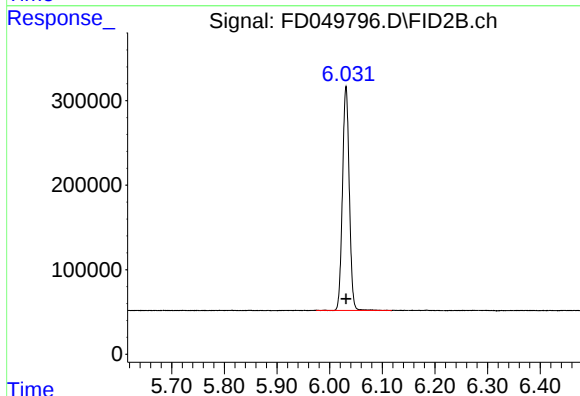




#1 1,2,3-Trimethylbenzene (C10.1)

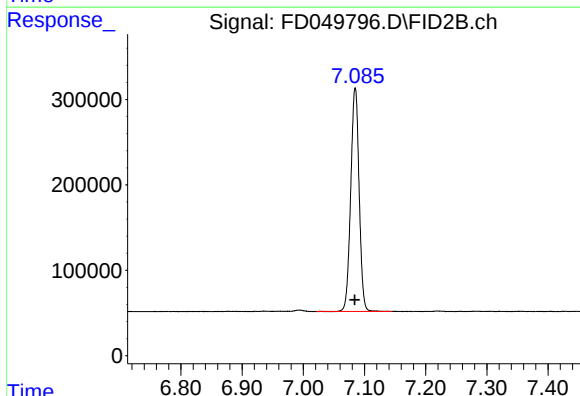
R.T.: 4.488 min
Delta R.T.: -0.002 min
Response: 2048815
Conc: 18.03 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



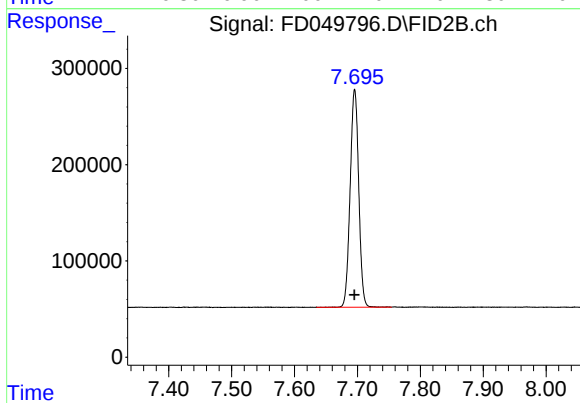
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 2385418
Conc: 18.08 ug/ml



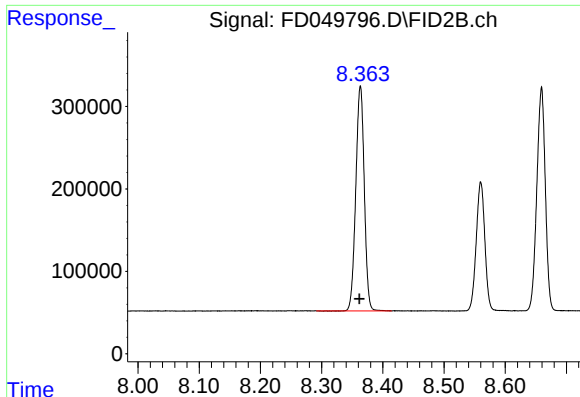
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.085 min
Delta R.T.: 0.000 min
Response: 2492740
Conc: 18.02 ug/ml



#4 2-Bromonaphthalene (SURR)

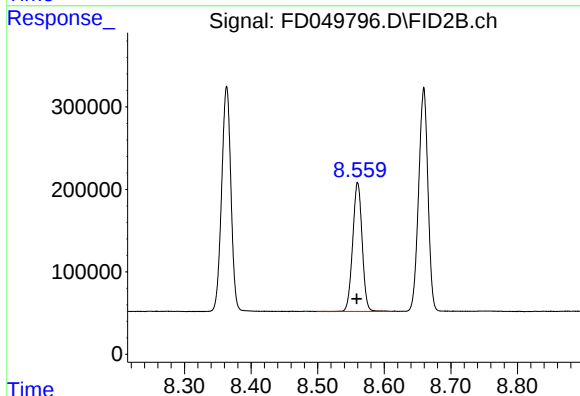
R.T.: 7.696 min
Delta R.T.: 0.000 min
Response: 2142320
Conc: 18.03 ug/ml



#5 Acenaphthylene (C15.06)

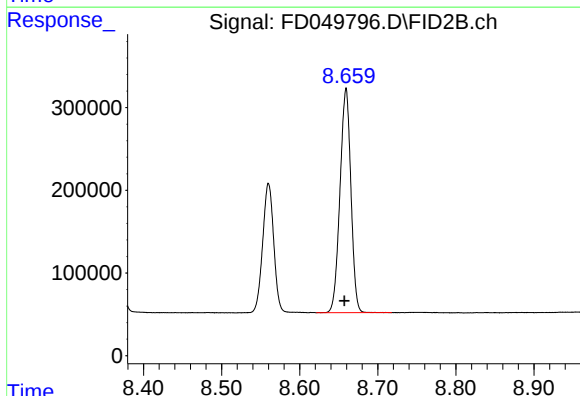
R.T.: 8.363 min
Delta R.T.: 0.001 min
Response: 2633294
Conc: 18.02 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



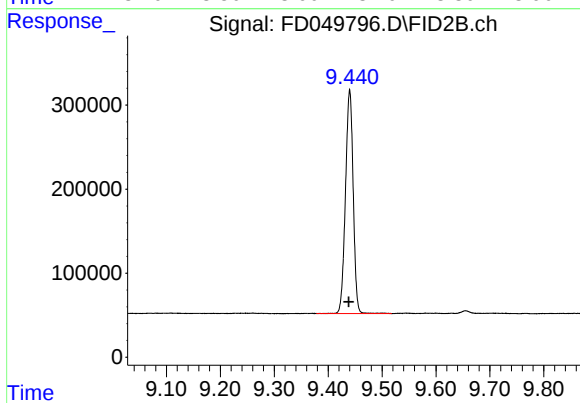
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.560 min
Delta R.T.: 0.001 min
Response: 1535927
Conc: 18.09 ug/ml



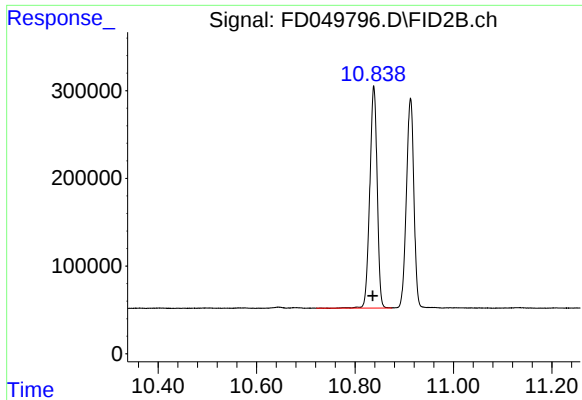
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: 0.002 min
Response: 2631149
Conc: 18.07 ug/ml



#8 Fluorene (C16.55)

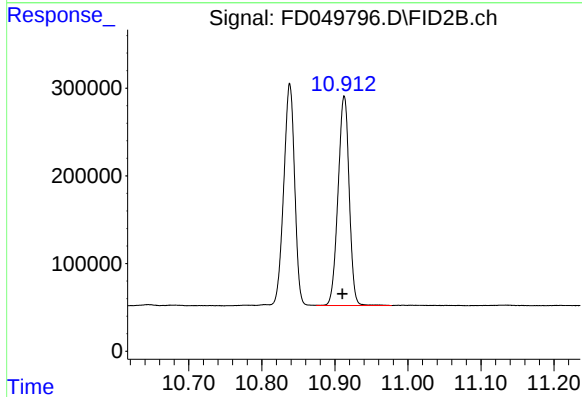
R.T.: 9.440 min
Delta R.T.: 0.002 min
Response: 2645074
Conc: 18.11 ug/ml



#9 Phenanthrene (C19.36)

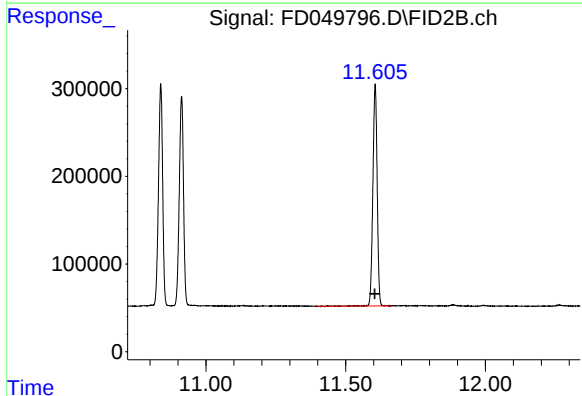
R.T.: 10.838 min
Delta R.T.: 0.002 min
Response: 2634207
Conc: 18.02 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



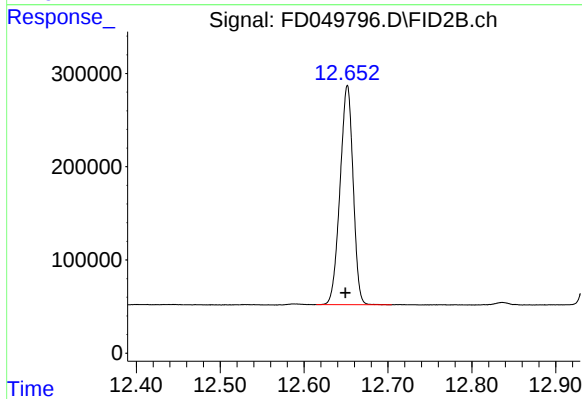
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: 0.003 min
Response: 2531114
Conc: 18.63 ug/ml



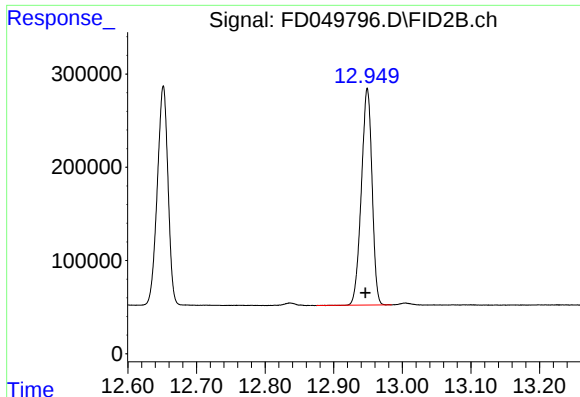
#11 ortho-Terphenyl (SURR)

R.T.: 11.605 min
Delta R.T.: 0.000 min
Response: 2694154
Conc: 18.05 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.651 min
Delta R.T.: 0.002 min
Response: 2549562
Conc: 17.90 ug/ml



#13 Pyrene (C20.8)

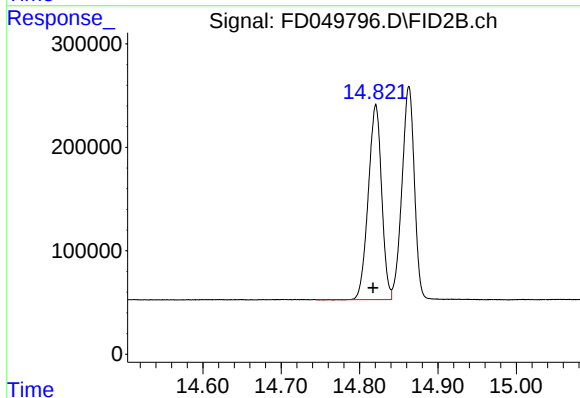
R.T.: 12.949 min
Delta R.T.: 0.002 min
Response: 2513219
Conc: 17.88 ug/ml

Instrument :

FID_D

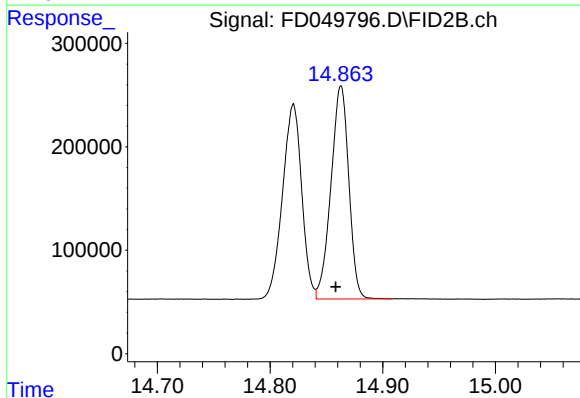
ClientSampleId :

20 PPM AROMATIC HC STD ICV



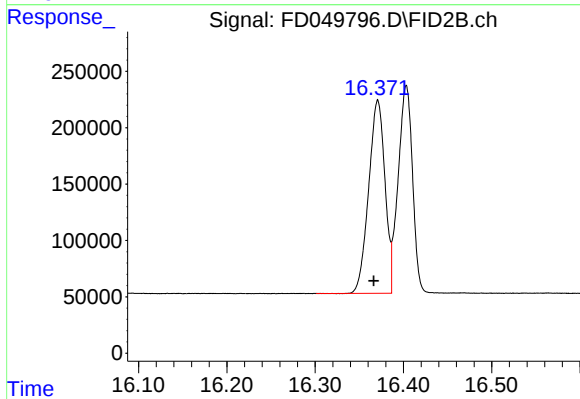
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: 0.003 min
Response: 2229772
Conc: 17.73 ug/ml



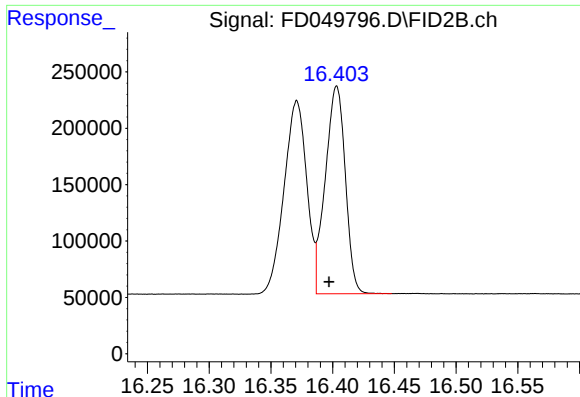
#15 Chrysene (C27.41)

R.T.: 14.863 min
Delta R.T.: 0.005 min
Response: 2267078
Conc: 17.65 ug/ml



#16 benzo[b]fluoranthene (C30.41)

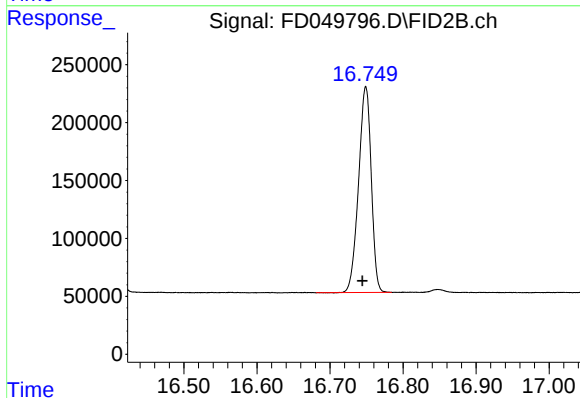
R.T.: 16.371 min
Delta R.T.: 0.005 min
Response: 2192575
Conc: 17.60 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

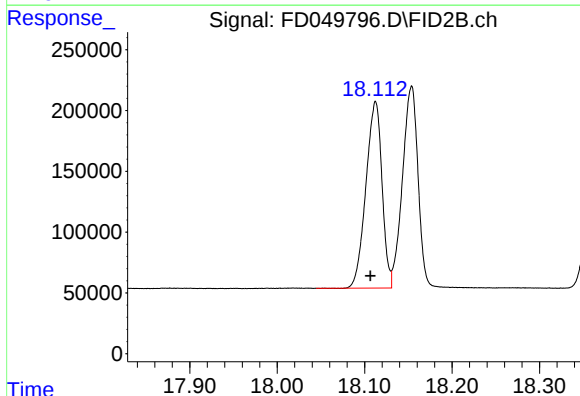
R.T.: 16.403 min
Delta R.T.: 0.006 min
Response: 2077138
Conc: 17.68 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



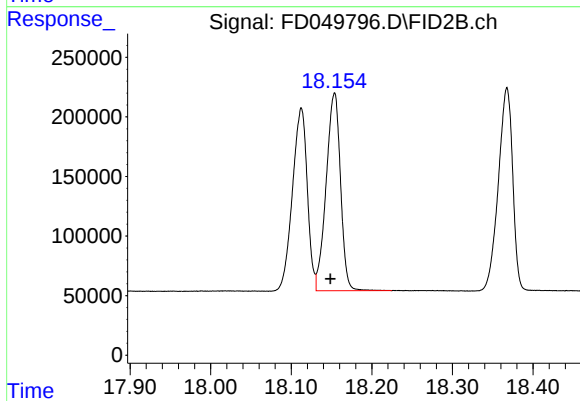
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.749 min
Delta R.T.: 0.005 min
Response: 2143280
Conc: 17.66 ug/ml



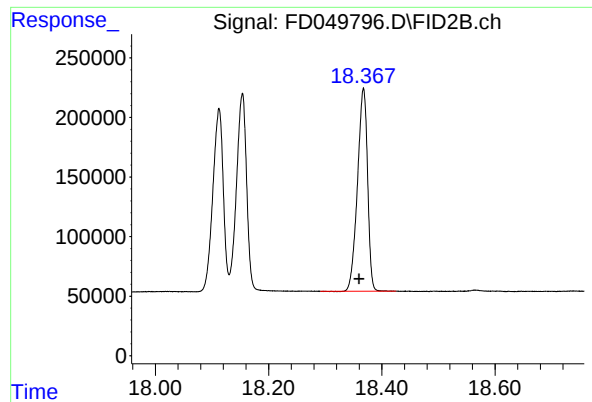
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.112 min
Delta R.T.: 0.005 min
Response: 1963429
Conc: 17.46 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.153 min
Delta R.T.: 0.005 min
Response: 2059645
Conc: 16.85 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.367 min
Delta R.T.: 0.007 min
Response: 2106918
Conc: 17.62 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100225AR\
 Data File : FD049796.D
 Signal(s) : FID2B.ch
 Acq On : 02 Oct 2025 13:09
 Sample : 20 PPM AROMATIC HC STD ICV
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.488	4.428	4.531	BB	238590	2048815	76.05%	4.226%
2	6.031	5.974	6.118	BB	263787	2385418	88.54%	4.921%
3	7.085	7.021	7.144	BB	262346	2492740	92.52%	5.142%
4	7.696	7.634	7.754	BB	225462	2142320	79.52%	4.419%
5	8.363	8.291	8.414	BB	273763	2633294	97.74%	5.432%
6	8.560	8.498	8.611	BB	156064	1535927	57.01%	3.168%
7	8.659	8.621	8.718	BB	266409	2631149	97.66%	5.428%
8	9.440	9.378	9.518	BB	266050	2645074	98.18%	5.456%
9	10.838	10.721	10.874	BV	252730	2634207	97.77%	5.434%
10	10.913	10.874	10.978	VB	238097	2531114	93.95%	5.221%
11	11.605	11.394	11.664	BB	251132	2694154	100.00%	5.558%
12	12.651	12.614	12.704	BB	235150	2549562	94.63%	5.259%
13	12.949	12.874	12.984	BV	231646	2513219	93.28%	5.184%
14	14.821	14.744	14.841	BV	188689	2229772	82.76%	4.600%
15	14.863	14.841	14.908	VB	206633	2267078	84.15%	4.677%
16	16.371	16.301	16.387	BV	171146	2192575	81.38%	4.523%
17	16.403	16.387	16.448	VB	184882	2077138	77.10%	4.285%
18	16.749	16.681	16.784	BB	177561	2143280	79.55%	4.421%
19	18.112	18.044	18.131	BV	152248	1963429	72.88%	4.050%
20	18.153	18.131	18.224	VB	167719	2059645	76.45%	4.249%
21	18.367	18.291	18.424	BB	170872	2106918	78.20%	4.346%
Sum of corrected areas:							48476829	

Aromatic EPH 100225.M Thu Oct 02 18:00:21 2025

Continuing Calibration Report for SequenceID : FC100925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069959.D

Aliphatic C9-C12	8690153.000	60.000	3.284	6.578	144835.883	144785.198	-0.035
Aliphatic C12-C16	6510614.000	40.000	6.579	9.979	162765.350	163782.335	0.621
Aliphatic C16-C21	9573600.000	60.000	9.980	13.346	159560.000	161945.502	1.473
Aliphatic C21-C28	11057127.000	80.000	13.347	17.010	138214.088	147142.336	6.068
Aliphatic C28-C40	12708255.000	120.000	17.011	21.966	105902.125	107599.833	1.578
Aliphatic EPH	48539749.000	360.000	3.284	21.966	134832.636	137884.728	2.214

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Oct 2025 08:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069959.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.284	6.578	8690153.000	60.000	ug/ml
Aliphatic C12-C16	6.579	9.979	6510614.000	40.000	ug/ml
Aliphatic C16-C21	9.980	13.346	9573600.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.010	11057127.000	80.000	ug/ml
Aliphatic C28-C40	17.011	21.966	12708255.000	120.000	ug/ml
Aliphatic EPH	3.284	21.966	48539749.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069959.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 08:40
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Oct 09 05:27:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.644	3462839	19.720 ug/ml
Spiked Amount 50.000		Recovery =	39.44%
12) S 1-chlorooctadecane (S...	13.079	2669216	19.664 ug/ml
Spiked Amount 50.000		Recovery =	39.33%
Target Compounds			
1) T n-Nonane (C9)	3.384	2747113	20.006 ug/ml
2) T n-Decane (C10)	4.455	2887982	20.089 ug/ml
3) T A~Naphthalene (C11.7)	6.048	3249845	20.108 ug/ml
4) T n-Dodecane (C12)	6.478	3055058	19.932 ug/ml
5) T A~2-methylnaphthalene...	7.106	3210601	20.123 ug/ml
6) T n-Tetradecane (C14)	8.275	3164647	19.898 ug/ml
7) T n-Hexadecane (C16)	9.879	3345967	19.855 ug/ml
8) T n-Octadecane (C18)	11.322	3363714	19.771 ug/ml
10) T n-Eicosane (C20)	12.633	3157989	19.684 ug/ml
11) T n-Heneicosane (C21)	13.246	3051897	19.655 ug/ml
13) T n-Docosane (C22)	13.832	2978816	19.356 ug/ml
14) T n-Tetracosane (C24)	14.937	2851156	18.803 ug/ml
15) T n-Hexacosane (C26)	15.959	2680926	18.522 ug/ml
16) T n-Octacosane (C28)	16.910	2546229	18.410 ug/ml
17) T n-Tricontane (C30)	17.797	2618178	19.176 ug/ml
18) T n-Dotriacontane (C32)	18.632	2493126	19.337 ug/ml
19) T n-Tetratriacontane (C34)	19.416	2256451	19.776 ug/ml
20) T n-Hexatriacontane (C36)	20.156	1945792	20.120 ug/ml
21) T n-Octatriacontane (C38)	20.914	1742776	19.995 ug/ml
22) T n-Tetracontane (C40)	21.866	1651932	20.106 ug/ml

(f)=RT Delta > 1/2 Window

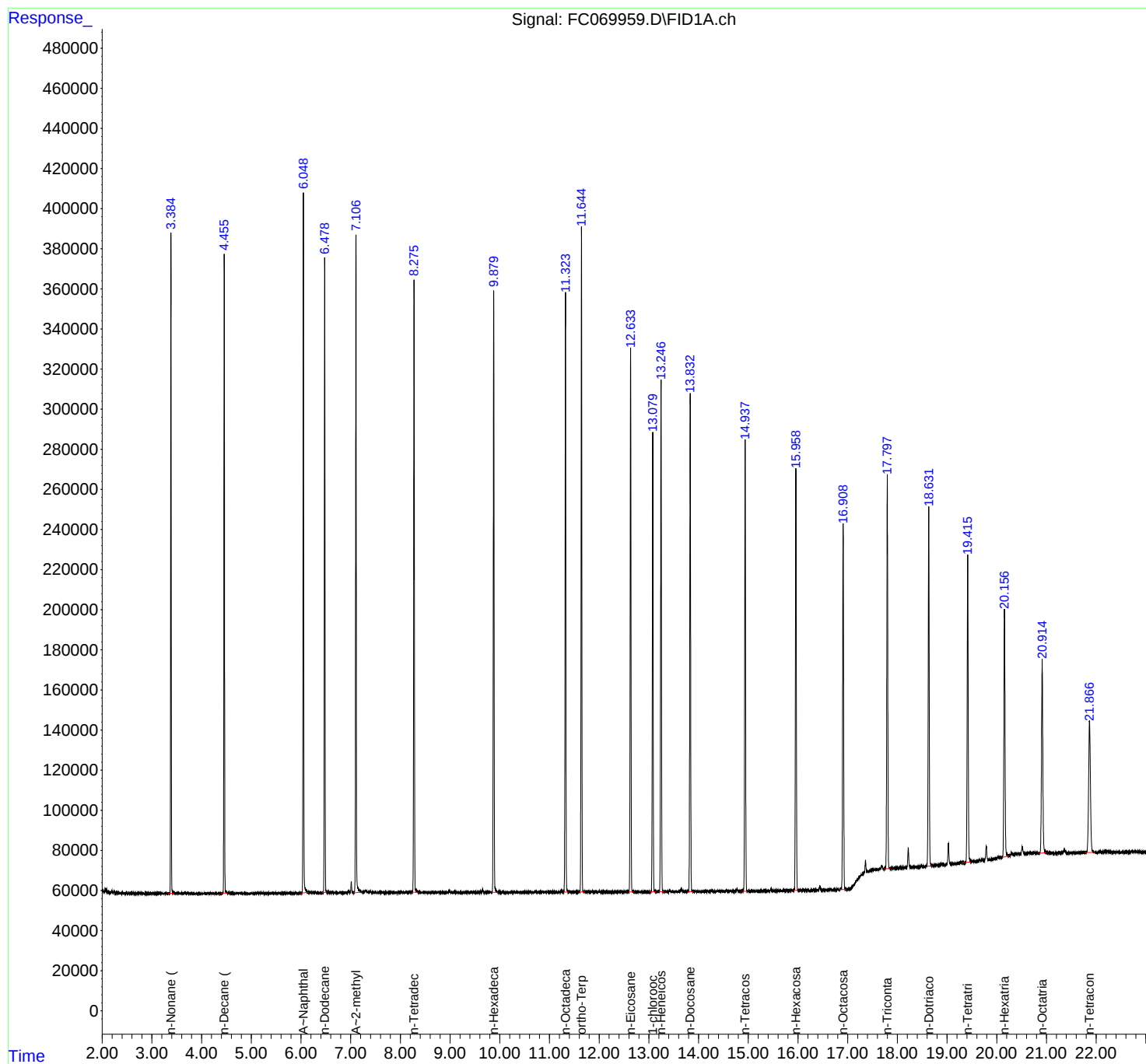
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069959.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 08:40
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Oct 09 05:27:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069959.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 08:40
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.330	3.442	BB	328511	2747113	79.33%	4.494%
2	4.455	4.402	4.522	BB	318457	2887982	83.40%	4.724%
3	6.048	5.999	6.145	BB	349133	3249845	93.85%	5.316%
4	6.478	6.419	6.529	BB	314897	3055058	88.22%	4.997%
5	7.107	7.059	7.215	BB	328863	3210601	92.72%	5.252%
6	8.275	8.232	8.352	BB	305332	3164647	91.39%	5.177%
7	9.879	9.839	9.965	BB	300502	3345967	96.62%	5.473%
8	11.322	11.284	11.389	BB	295840	3363714	97.14%	5.502%
9	11.644	11.604	11.705	BB	331506	3462839	100.00%	5.665%
10	12.633	12.592	12.685	BB	271638	3157989	91.20%	5.166%
11	13.079	13.015	13.139	BB	227896	2669216	77.08%	4.366%
12	13.246	13.205	13.300	BB	254956	3051897	88.13%	4.992%
13	13.832	13.795	13.894	BB	247979	2978816	86.02%	4.873%
14	14.937	14.869	14.982	BB	224966	2851156	82.34%	4.664%
15	15.959	15.917	16.002	BB	210480	2680926	77.42%	4.385%
16	16.910	16.830	16.969	BB	181198	2546229	73.53%	4.165%
17	17.797	17.724	17.854	BB	196072	2618178	75.61%	4.283%
18	18.632	18.590	18.702	BB	179674	2493126	72.00%	4.078%
19	19.416	19.302	19.490	BB	153350	2256451	65.16%	3.691%
20	20.156	20.110	20.247	BB	123474	1945792	56.19%	3.183%
21	20.914	20.860	21.000	BB	96518	1742776	50.33%	2.851%
22	21.866	21.777	21.977	BB	65282	1651932	47.70%	2.702%
Sum of corrected areas:							61132248	

Aliphatic EPH 100725.M Thu Oct 09 06:05:59 2025

Continuing Calibration Report for SequenceID : FC100925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069970.D

Aliphatic C9-C12	9108916.000	60.000	3.284	6.578	151815.267	144785.198	-4.856
Aliphatic C12-C16	6796739.000	40.000	6.579	9.979	169918.475	163782.335	-3.747
Aliphatic C16-C21	9958048.000	60.000	9.980	13.346	165967.467	161945.502	-2.484
Aliphatic C21-C28	11596483.000	80.000	13.347	17.010	144956.038	147142.336	1.486
Aliphatic C28-C40	12749847.000	120.000	17.011	21.966	106248.725	107599.833	1.256
Aliphatic EPH	50210033.000	360.000	3.284	21.966	139472.314	137884.728	-1.151

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Oct 2025 18:44
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069970.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.284	6.578	9108916.000	60.000	ug/ml
Aliphatic C12-C16	6.579	9.979	6796739.000	40.000	ug/ml
Aliphatic C16-C21	9.980	13.346	9958048.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.010	11596483.000	80.000	ug/ml
Aliphatic C28-C40	17.011	21.966	12749847.000	120.000	ug/ml
Aliphatic EPH	3.284	21.966	50210033.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069970.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 18:44
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Oct 09 06:01:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.643	3625636	20.647 ug/ml
Spiked Amount 50.000		Recovery =	41.29%
12) S 1-chlorooctadecane (S...	13.077	2779191	20.474 ug/ml
Spiked Amount 50.000		Recovery =	40.95%
Target Compounds			
1) T n-Nonane (C9)	3.384	2881635	20.985 ug/ml
2) T n-Decane (C10)	4.455	3028309	21.065 ug/ml
3) T A~Naphthalene (C11.7)	6.047	3407400	21.083 ug/ml
4) T n-Dodecane (C12)	6.477	3198972	20.871 ug/ml
5) T A~2-methylnaphthalene...	7.106	3360091	21.060 ug/ml
6) T n-Tetradecane (C14)	8.274	3316352	20.852 ug/ml
7) T n-Hexadecane (C16)	9.877	3480387	20.653 ug/ml
8) T n-Octadecane (C18)	11.321	3499582	20.570 ug/ml
10) T n-Eicosane (C20)	12.631	3281473	20.454 ug/ml
11) T n-Heneicosane (C21)	13.244	3176993	20.461 ug/ml
13) T n-Docosane (C22)	13.831	3114284	20.236 ug/ml
14) T n-Tetracosane (C24)	14.935	2984245	19.681 ug/ml
15) T n-Hexacosane (C26)	15.957	2820659	19.488 ug/ml
16) T n-Octacosane (C28)	16.907	2677295	19.358 ug/ml
17) T n-Tricontane (C30)	17.795	2651217	19.418 ug/ml
18) T n-Dotriacontane (C32)	18.628	2510869	19.474 ug/ml
19) T n-Tetratriacontane (C34)	19.413	2263364	19.837 ug/ml
20) T n-Hexatriacontane (C36)	20.152	1949102	20.154 ug/ml
21) T n-Octatriacontane (C38)	20.911	1737500	19.935 ug/ml
22) T n-Tetracontane (C40)	21.863	1637795	19.934 ug/ml

(f)=RT Delta > 1/2 Window

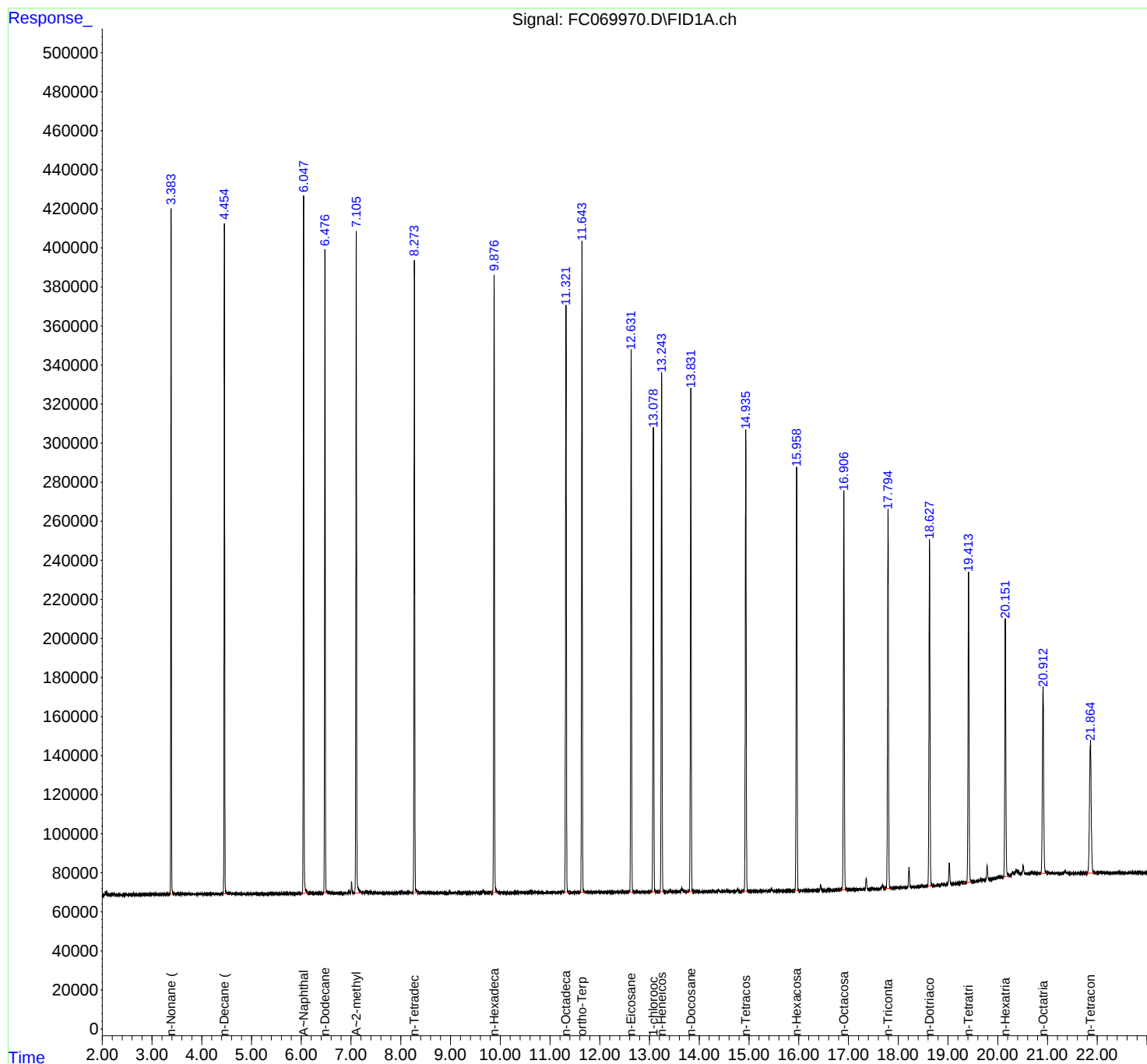
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069970.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 18:44
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Oct 09 06:01:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069970.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 18:44
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.357	3.435	BB	351181	2881635	79.48%	4.546%
2	4.455	4.427	4.517	BB	341629	3028309	83.52%	4.778%
3	6.047	5.997	6.142	BB	356932	3407400	93.98%	5.376%
4	6.477	6.422	6.525	BB	328861	3198972	88.23%	5.047%
5	7.106	7.057	7.219	BB	338658	3360091	92.68%	5.301%
6	8.274	8.210	8.360	BB	323559	3316352	91.47%	5.232%
7	9.877	9.815	9.957	BB	316691	3480387	95.99%	5.491%
8	11.321	11.275	11.394	BB	301265	3499582	96.52%	5.521%
9	11.643	11.584	11.702	BB	333555	3625636	100.00%	5.720%
10	12.631	12.574	12.685	BB	278383	3281473	90.51%	5.177%
11	13.077	13.020	13.115	BB	236422	2779191	76.65%	4.385%
12	13.244	13.174	13.299	BB	265789	3176993	87.63%	5.012%
13	13.831	13.735	13.880	BB	257352	3114284	85.90%	4.913%
14	14.935	14.862	14.982	BB	235989	2984245	82.31%	4.708%
15	15.957	15.890	16.017	BB	215443	2820659	77.80%	4.450%
16	16.907	16.830	16.965	BB	204196	2677295	73.84%	4.224%
17	17.795	17.727	17.855	BB	193771	2651217	73.12%	4.183%
18	18.628	18.590	18.700	BB	174807	2510869	69.25%	3.961%
19	19.413	19.300	19.490	BB	159005	2263364	62.43%	3.571%
20	20.152	20.110	20.240	BB	130783	1949102	53.76%	3.075%
21	20.911	20.860	21.000	BB	94974	1737500	47.92%	2.741%
22	21.863	21.770	21.960	BB	68009	1637795	45.17%	2.584%
Sum of corrected areas:							63382351	

Aliphatic EPH 100725.M Thu Oct 09 06:09:52 2025

Continuing Calibration Report for SequenceID : FD100825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049828.D

Aromatic C10-C12	4911521.000	40.000	4.394	6.137	122788.025	122789.439	0.001
Aromatic C12-C16	8705027.000	60.000	6.138	8.765	145083.783	143358.701	-1.203
Aromatic C16-C21	11272445.000	80.000	8.766	13.056	140905.563	142171.561	0.890
Aromatic C21-C36	21626869.000	180.000	13.057	18.475	120149.272	123821.788	2.966
Aromatic EPH	46515862.000	360.000	4.394	18.475	129210.728	131040.962	1.397

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	08 Oct 2025 08:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049828.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.394	6.137	4911521.000	40.000	ug/ml
Aromatic C12-C16	6.138	8.765	8705027.000	60.000	ug/ml
Aromatic C16-C21	8.766	13.056	11272445.000	80.000	ug/ml
Aromatic C21-C36	13.057	18.475	21626869.000	180.000	ug/ml
Aromatic EPH	4.394	18.475	46515862.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049828.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 08:40
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD

Integration File: sample.E
 Quant Time: Oct 09 06:26:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.701	2410723	20.290 ug/ml
Spiked Amount 50.000		Recovery =	40.58%
6) S 2-Fluorobiphenyl (SURR)	8.566	1716678	20.220 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.44%
11) S ortho-Terphenyl (SURR)	11.612	3048956	20.424 ug/ml
Spiked Amount 50.000		Recovery =	40.85%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.494	2256679	19.858 ug/ml
2) T Naphthalene (C11.7)	6.037	2654842	20.122 ug/ml
3) T 2-Methylnaphthalene (...)	7.091	2792908	20.185 ug/ml
5) T Acenaphthylene (C15.06)	8.369	2948164	20.179 ug/ml
7) T Acenaphthene (C15.5)	8.665	2963955	20.355 ug/ml
8) T Flouorene (C16.55)	9.446	2952333	20.216 ug/ml
9) T Phenanthrene (C19.36)	10.844	2912014	19.921 ug/ml
10) T Anthracene (C19.43)	10.919	2630194	19.355 ug/ml
12) T Fluoranthene (C21.85)	12.658	2815660	19.764 ug/ml
13) T Pyrene (C20.8)	12.956	2777904	19.761 ug/ml
14) T Benzo[a]anthracene (C...	14.827	2409974	19.162 ug/ml
15) T Chrysene (C27.41)	14.869	2498320	19.447 ug/ml
16) T benzo[b]fluoranthene ...	16.378	2427694	19.489 ug/ml
17) T Bnezo[k]fluoranthene ...	16.410	2279803	19.408 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.757	2316738	19.090 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.120	2184632	19.429 ug/ml
20) T Dibenz[a,h]anthracene...	18.160	2299228	18.806 ug/ml
21) T Benzo[g,h,i]perylene ...	18.375	2394820	20.023 ug/ml

(f)=RT Delta > 1/2 Window

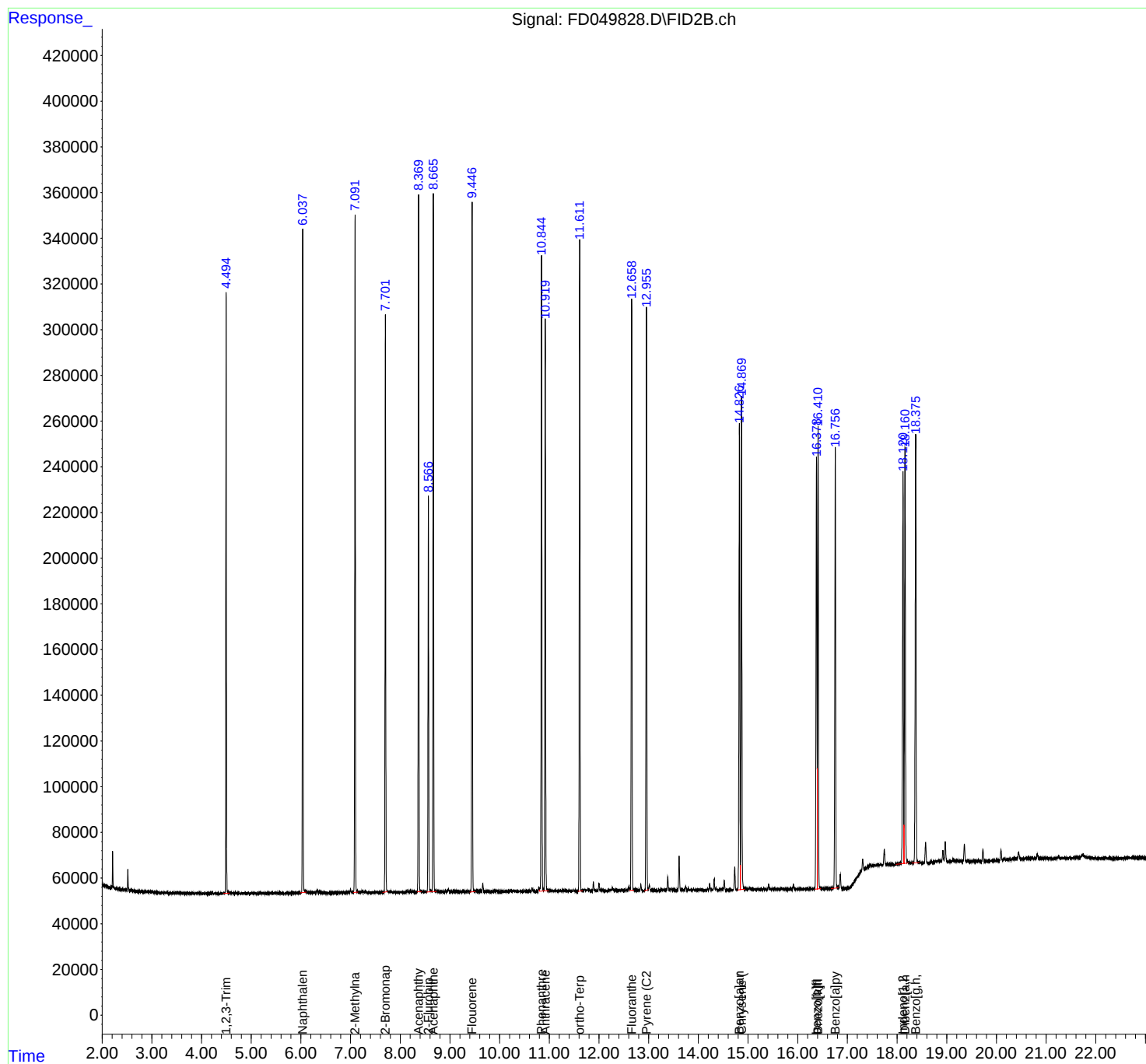
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049828.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 08:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Oct 09 06:26:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049828.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 08:40
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.494	4.441	4.564	BB	262803	2256679	74.01%	4.203%
2	6.037	5.978	6.111	BB	290802	2654842	87.07%	4.945%
3	7.091	7.055	7.151	BB	296838	2792908	91.60%	5.202%
4	7.701	7.648	7.745	BB	252581	2410723	79.07%	4.490%
5	8.369	8.338	8.428	BB	304120	2948164	96.69%	5.491%
6	8.566	8.534	8.635	BB	172109	1716678	56.30%	3.197%
7	8.665	8.638	8.728	BB	303749	2963955	97.21%	5.520%
8	9.446	9.401	9.511	BB	300084	2952333	96.83%	5.499%
9	10.844	10.800	10.888	VV	278489	2912014	95.51%	5.424%
10	10.919	10.888	10.988	VB	248909	2630194	86.27%	4.899%
11	11.612	11.575	11.671	BB	284790	3048956	100.00%	5.679%
12	12.658	12.623	12.705	VB	258556	2815660	92.35%	5.244%
13	12.956	12.918	12.991	BV	253311	2777904	91.11%	5.174%
14	14.827	14.788	14.847	PV	203022	2409974	79.04%	4.488%
15	14.869	14.847	14.941	VB	213970	2498320	81.94%	4.653%
16	16.378	16.335	16.394	BV	189211	2427694	79.62%	4.522%
17	16.410	16.394	16.461	VB	203716	2279803	74.77%	4.246%
18	16.757	16.668	16.821	BB	194111	2316738	75.98%	4.315%
19	18.120	17.975	18.138	BV	172549	2184632	71.65%	4.069%
20	18.160	18.138	18.231	VB	182503	2299228	75.41%	4.282%
21	18.375	18.294	18.445	BB	186540	2394820	78.55%	4.460%
Sum of corrected areas:							53692217	

Aromatic EPH 100225.M Thu Oct 09 07:07:12 2025

Continuing Calibration Report for SequenceID : FD100825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049839.D

Aromatic C10-C12	5031231.000	40.000	4.394	6.137	125780.775	122789.439	-2.436
Aromatic C12-C16	9007525.000	60.000	6.138	8.765	150125.417	143358.701	-4.720
Aromatic C16-C21	11947262.000	80.000	8.766	13.056	149340.775	142171.561	-5.043
Aromatic C21-C36	23016679.000	180.000	13.057	18.475	127870.439	123821.788	-3.270
Aromatic EPH	49002697.000	360.000	4.394	18.475	136118.603	131040.962	-3.875

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	08 Oct 2025 17:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049839.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.394	6.137	5031231.000	40.000	ug/ml
Aromatic C12-C16	6.138	8.765	9007525.000	60.000	ug/ml
Aromatic C16-C21	8.766	13.056	11947262.000	80.000	ug/ml
Aromatic C21-C36	13.057	18.475	23016679.000	180.000	ug/ml
Aromatic EPH	4.394	18.475	49002697.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049839.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 17:18
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD

Integration File: sample.E
 Quant Time: Oct 09 06:30:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.701	2496033	21.008 ug/ml
Spiked Amount 50.000		Recovery =	42.02%
6) S 2-Fluorobiphenyl (SURR)	8.565	1788684	21.068 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	42.14%
11) S ortho-Terphenyl (SURR)	11.612	3183487	21.325 ug/ml
Spiked Amount 50.000		Recovery =	42.65%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.494	2304368	20.277 ug/ml
2) T Naphthalene (C11.7)	6.036	2726863	20.668 ug/ml
3) T 2-Methylnaphthalene (...)	7.090	2879939	20.814 ug/ml
5) T Acenaphthylene (C15.06)	8.368	3053663	20.901 ug/ml
7) T Acenaphthene (C15.5)	8.665	3073923	21.111 ug/ml
8) T Flouorene (C16.55)	9.446	3089281	21.154 ug/ml
9) T Phenanthrene (C19.36)	10.844	3095307	21.175 ug/ml
10) T Anthracene (C19.43)	10.918	2805359	20.644 ug/ml
12) T Fluoranthene (C21.85)	12.658	3004940	21.092 ug/ml
13) T Pyrene (C20.8)	12.955	2957315	21.037 ug/ml
14) T Benzo[a]anthracene (C...	14.827	2602510	20.693 ug/ml
15) T Chrysene (C27.41)	14.870	2691073	20.947 ug/ml
16) T benzo[b]fluoranthene ...	16.378	2578235	20.698 ug/ml
17) T Bnezo[k]fluoranthene ...	16.411	2438532	20.760 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.757	2462847	20.294 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.120	2284004	20.313 ug/ml
20) T Dibenz[a,h]anthracene...	18.161	2476522	20.256 ug/ml
21) T Benzo[g,h,i]perylene ...	18.375	2478016	20.718 ug/ml

(f)=RT Delta > 1/2 Window

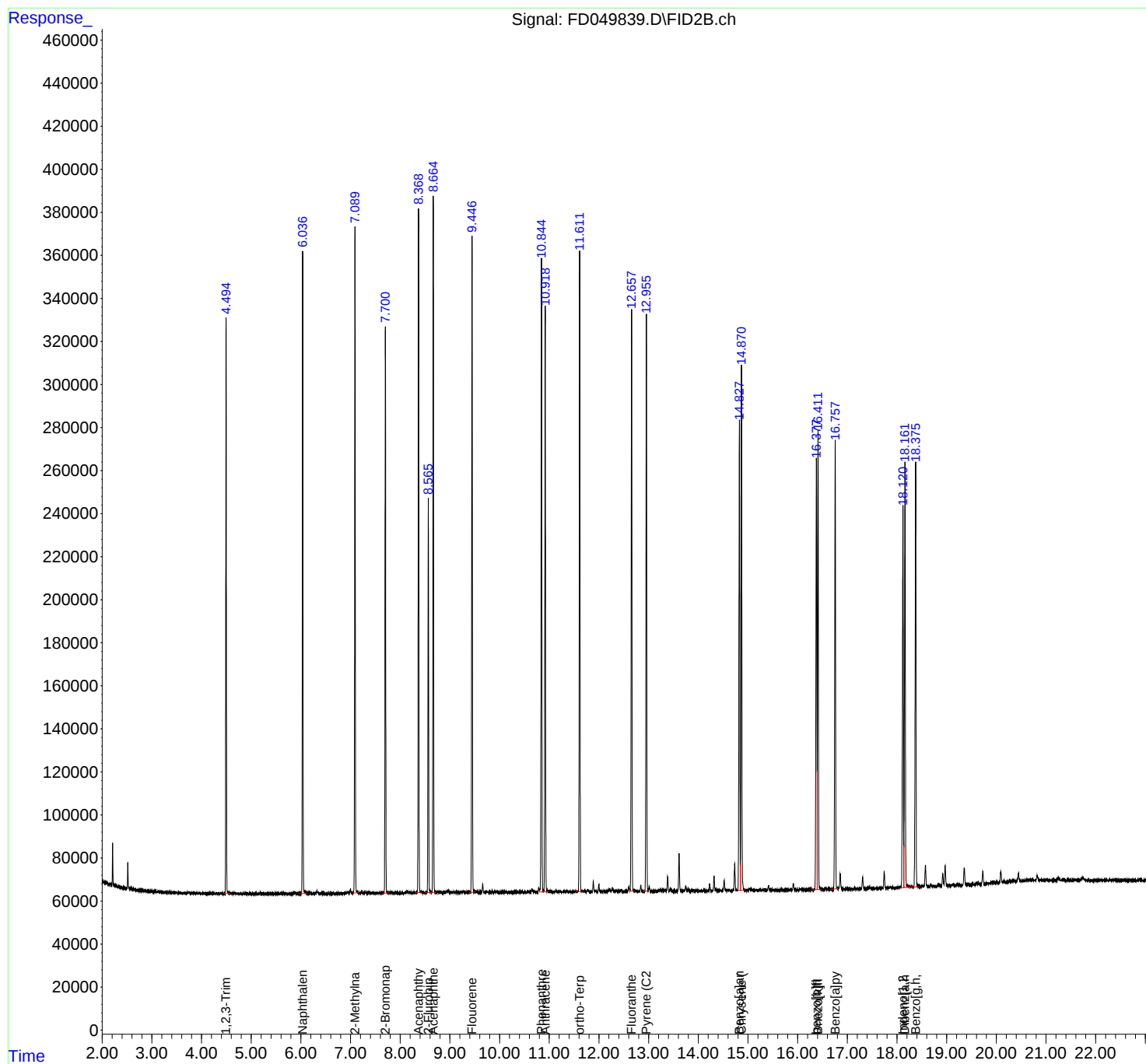
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049839.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 17:18
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Oct 09 06:30:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049839.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 17:18
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.494	4.434	4.564	BB	266677	2304368	72.39%	4.081%
2	6.036	5.974	6.111	BB	298234	2726863	85.66%	4.829%
3	7.090	7.041	7.154	BB	307978	2879939	90.46%	5.100%
4	7.701	7.644	7.768	BB	262799	2496033	78.41%	4.420%
5	8.368	8.298	8.431	BB	316059	3053663	95.92%	5.407%
6	8.565	8.504	8.628	BB	182169	1788684	56.19%	3.167%
7	8.665	8.628	8.724	BB	324003	3073923	96.56%	5.443%
8	9.446	9.388	9.508	BB	301954	3089281	97.04%	5.471%
9	10.844	10.801	10.884	VV	295167	3095307	97.23%	5.481%
10	10.918	10.884	10.984	VB	269766	2805359	88.12%	4.968%
11	11.612	11.538	11.671	BB	298218	3183487	100.00%	5.637%
12	12.658	12.623	12.714	VB	270643	3004940	94.39%	5.321%
13	12.955	12.878	12.990	BV	269344	2957315	92.90%	5.237%
14	14.827	14.784	14.847	VV	219501	2602510	81.75%	4.609%
15	14.870	14.847	14.941	VB	243807	2691073	84.53%	4.765%
16	16.378	16.291	16.394	BV	200530	2578235	80.99%	4.566%
17	16.411	16.394	16.463	VB	214138	2438532	76.60%	4.318%
18	16.757	16.671	16.818	BB	210395	2462847	77.36%	4.361%
19	18.120	18.080	18.138	VV	178213	2284004	71.75%	4.045%
20	18.161	18.138	18.234	VV	198076	2476522	77.79%	4.385%
21	18.375	18.234	18.444	VB	197218	2478016	77.84%	4.388%
Sum of corrected areas:							56470902	

Aromatic EPH 100225.M Thu Oct 09 07:13:23 2025



QC SAMPLE DATA

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BL	SDG No.:	Q3301
Lab Sample ID:	PB170011BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 11:25	10/08/25 11:33	PB170011

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC069962.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC069962.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC069962.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC069962.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC069962.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049831.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049831.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049831.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.67	mg/kg	FD049831.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.01	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	12.0	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BL	SDG No.:	Q3301
Lab Sample ID:	PB170011BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069962.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170011BL	Acq On:	08 Oct 2025 11:33
Client Sample ID:	PB170011BL	Operator:	YP/AJ
Data file:	FC069962.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	0	0	300	ug/ml
Aliphatic C12-C16	6.579	9.979	0	0	200	ug/ml
Aliphatic C16-C21	9.980	13.346	0	0	300	ug/ml
Aliphatic C21-C28	13.347	17.010	0	0	400	ug/ml
Aliphatic C28-C40	17.011	21.966	0	0	600	ug/ml
Aliphatic EPH	3.284	21.966	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.080	13.080	4410344	32.49		ug/ml
Aliphatic C9-C28	3.284	17.010	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069962.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 11:33
Operator : YP/AJ
Sample : PB170011BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170011BL

Integration File: sample.E
Quant Time: Oct 09 05:29:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.080	4410344	32.491 ug/ml
Spiked Amount 50.000		Recovery =	64.98%

Target Compounds

(f)=RT Delta > 1/2 Window

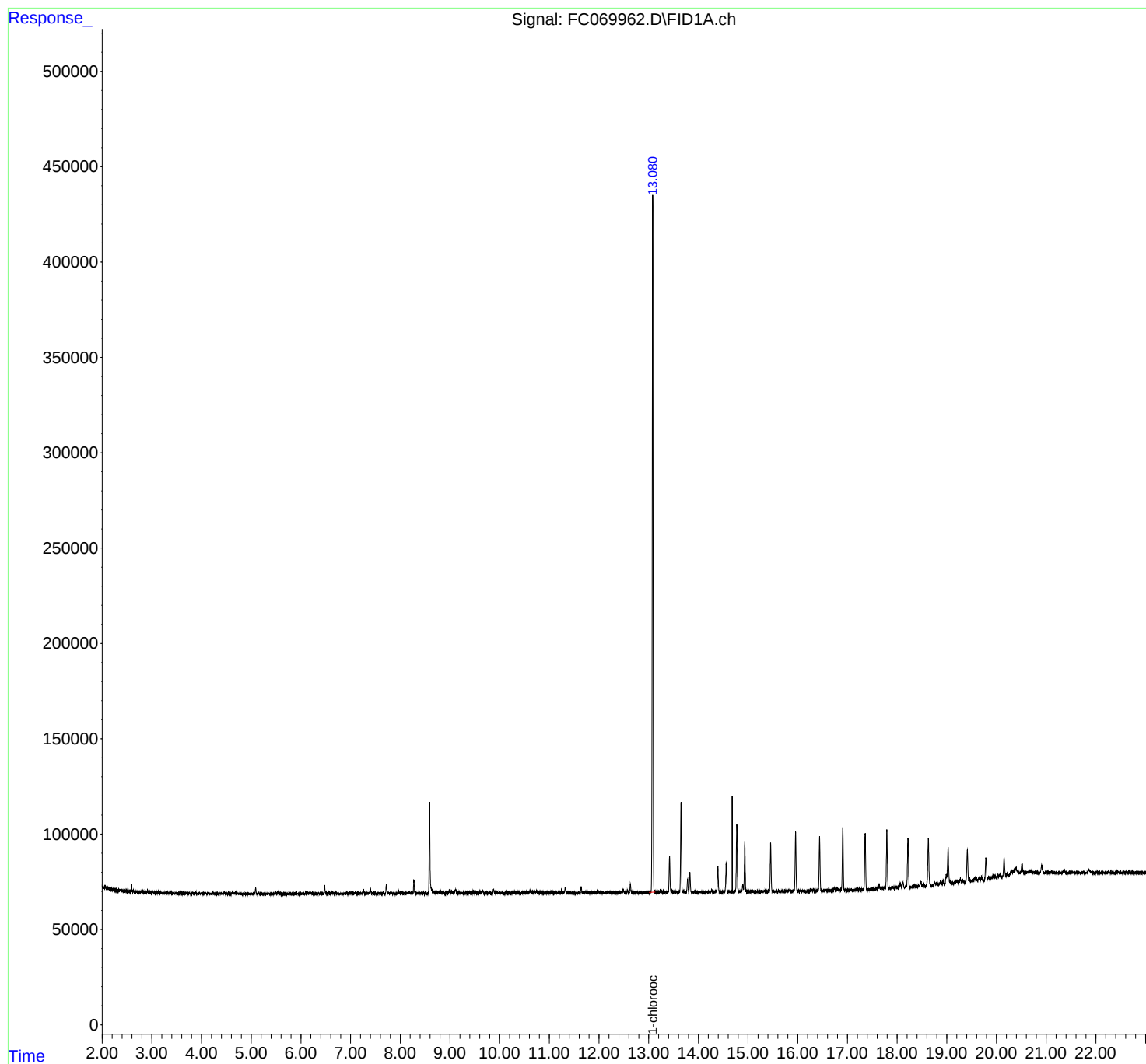
(m)=manual int.

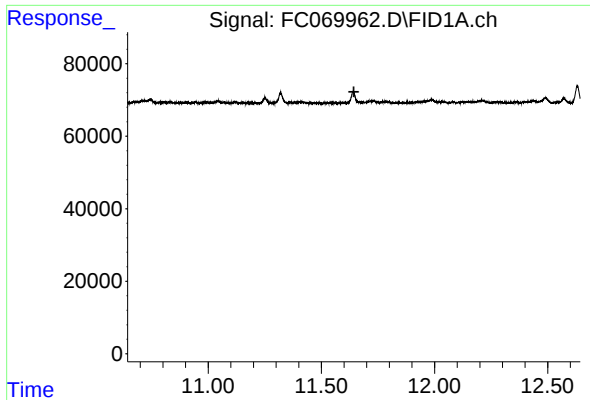
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069962.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 11:33
Operator : YP/AJ
Sample : PB170011BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170011BL

Integration File: sample.E
Quant Time: Oct 09 05:29:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

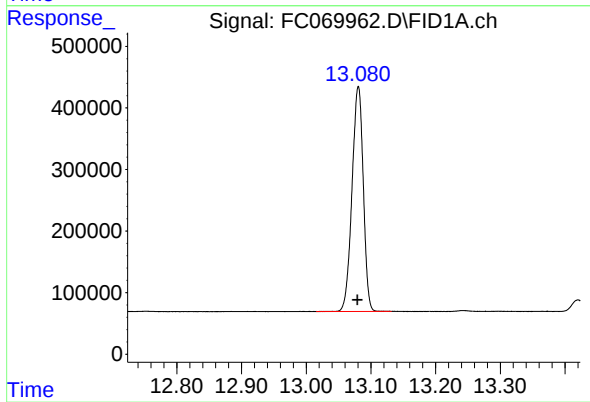




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 11.644 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB170011BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.080 min
Delta R.T.: 0.001 min
Response: 4410344
Conc: 32.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069962.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 11:33
Sample : PB170011BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.080	13.015	13.132	BB	365455	4410344	100.00%	100.000%
Sum of corrected areas:							4410344	

Aliphatic EPH 100725.M Thu Oct 09 06:08:45 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BL	SDG No.:	Q3301
Lab Sample ID:	PB170011BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049831.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.6		40 - 140	111%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	56.2		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	62.6		40 - 140	125%	SPK: 50



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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB170011BL	Acq On:	08 Oct 2025 10:50
Client Sample ID:	PB170011BL	Operator:	YP/AJ
Data file:	FD049831.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	0	0	200	ug/ml
Aromatic C12-C16	6.138	8.765	0	0	300	ug/ml
Aromatic C16-C21	8.766	13.056	0	0	500	ug/ml
Aromatic C21-C36	13.057	18.475	0	0	800	ug/ml
Aromatic EPH	4.394	18.475	0	0		ug/ml
ortho-Terphenyl (SURR)	11.617	11.617	9343711	62.59		ug/ml
2-Bromonaphthalene (SURR)	7.704	7.704	6606712	55.61		ug/ml
2-Fluorobiphenyl (SURR)	8.568	8.568	4773748	56.23		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049831.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 10:50
 Operator : YP/AJ
 Sample : PB170011BL
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB170011BL

Integration File: sample.E
 Quant Time: Oct 09 06:27:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.704	6606712	55.605 ug/ml
Spiked Amount 50.000		Recovery =	111.21%
6) S 2-Fluorobiphenyl (SURR)	8.568	4773748	56.228 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	112.46%
11) S ortho-Terphenyl (SURR)	11.617	9343711	62.590 ug/ml
Spiked Amount 50.000		Recovery =	125.18%

Target Compounds

(f)=RT Delta > 1/2 Window

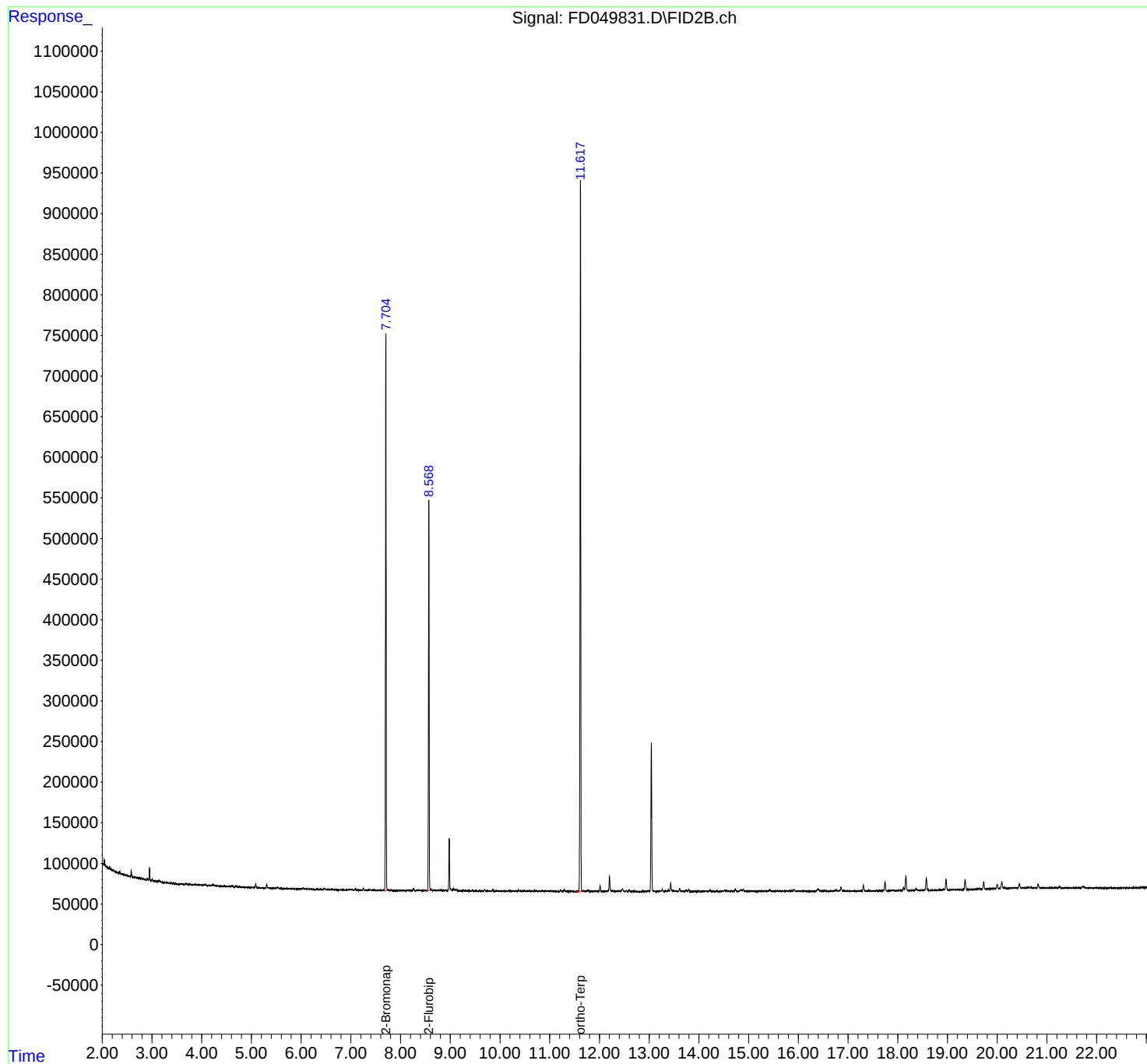
(m)=manual int.

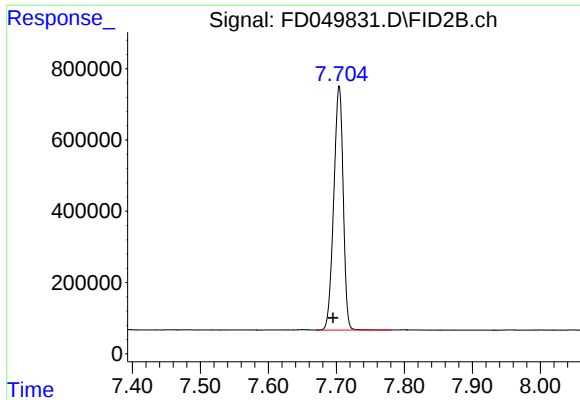
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049831.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 10:50
Operator : YP/AJ
Sample : PB170011BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB170011BL

Integration File: sample.E
Quant Time: Oct 09 06:27:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

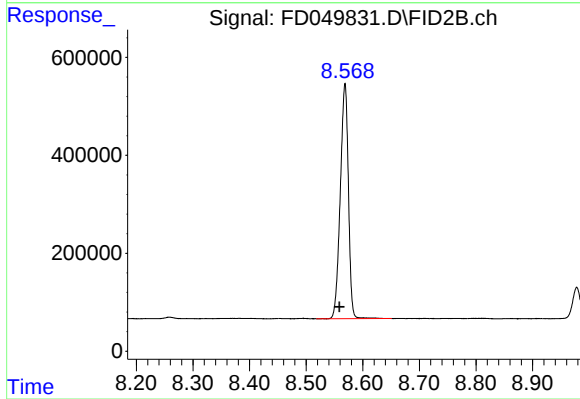




#4 2-Bromonaphthalene (SURR)

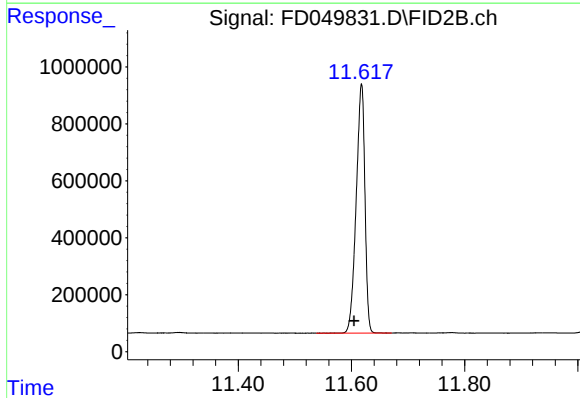
R.T.: 7.704 min
Delta R.T.: 0.009 min
Response: 6606712
Conc: 55.61 ug/ml

Instrument :
FID_D
ClientSampleId :
PB170011BL



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.568 min
Delta R.T.: 0.010 min
Response: 4773748
Conc: 56.23 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.617 min
Delta R.T.: 0.013 min
Response: 9343711
Conc: 62.59 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049831.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 10:50
Sample : PB170011BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.704	7.670	7.781	PB	688198	6606712	70.71%	31.879%
2	8.568	8.518	8.651	BB	476329	4773748	51.09%	23.035%
3	11.617	11.538	11.671	BV	879967	9343711	100.00%	45.086%
Sum of corrected areas:							20724171	

Aromatic EPH 100225.M Thu Oct 09 07:12:21 2025

Report of Analysis

Client:	Ronald Adams		Date Collected:		
Project:	19 Ashlynn Court		Date Received:		
Client Sample ID:	PB170011BS		SDG No.:	Q3301	
Lab Sample ID:	PB170011BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 11:25	10/08/25 10:06	PB170011

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.40		1	0.14	1.00	mg/kg	FC069960.D
Aliphatic C12-C16	Aliphatic C12-C16	4.65		1	0.11	0.67	mg/kg	FC069960.D
Aliphatic C16-C21	Aliphatic C16-C21	7.93		1	0.13	1.00	mg/kg	FC069960.D
Aliphatic C21-C28	Aliphatic C21-C28	10.5		1	0.53	1.33	mg/kg	FC069960.D
Aliphatic C28-C40	Aliphatic C28-C40	17.9		1	1.18	2.00	mg/kg	FC069960.D
Aromatic C10-C12	Aromatic C10-C12	4.76		1	0.12	0.67	mg/kg	FD049829.D
Aromatic C12-C16	Aromatic C12-C16	7.86		1	0.23	1.00	mg/kg	FD049829.D
Aromatic C16-C21	Aromatic C16-C21	16.0		1	0.40	1.67	mg/kg	FD049829.D
Aromatic C21-C36	Aromatic C21-C36	26.9		1	1.19	2.66	mg/kg	FD049829.D
Total AliphaticEPH	Total AliphaticEPH	46.4			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	55.5			1.94	6.00	mg/kg	
Total EPH	Total EPH	102			4.03	12.0	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BS	SDG No.:	Q3301
Lab Sample ID:	PB170011BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069960.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.40		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.65		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.93		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.5		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.9		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.2		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170011BS	Acq On:	08 Oct 2025 10:06
Client Sample ID:	PB170011BS	Operator:	YP/AJ
Data file:	FC069960.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	11745218	81.122	300	ug/ml
Aliphatic C12-C16	6.579	9.979	11426361	69.766	200	ug/ml
Aliphatic C16-C21	9.980	13.346	19271774	119.002	300	ug/ml
Aliphatic C21-C28	13.347	17.010	23295117	158.317	400	ug/ml
Aliphatic C28-C40	17.011	21.966	28848077	268.105	600	ug/ml
Aliphatic EPH	3.284	21.966	94586547	696.311		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.081	13.081	5862702	43.19		ug/ml
Aliphatic C9-C28	3.284	17.010	65738470	428.207	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069960.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 10:06
 Operator : YP/AJ
 Sample : PB170011BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB170011BS

Integration File: sample.E
 Quant Time: Oct 09 05:28:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.081	5862702	43.190 ug/ml
Spiked Amount 50.000		Recovery =	86.38%
Target Compounds			
1) T n-Nonane (C9)	3.384	3035027	22.102 ug/ml
2) T n-Decane (C10)	4.455	3915940	27.239 ug/ml
4) T n-Dodecane (C12)	6.478	4794251	31.279 ug/ml
6) T n-Tetradecane (C14)	8.276	5457722	34.316 ug/ml
7) T n-Hexadecane (C16)	9.880	5968639	35.418 ug/ml
8) T n-Octadecane (C18)	11.324	6363164	37.402 ug/ml
10) T n-Eicosane (C20)	12.636	6590330	41.078 ug/ml
11) T n-Heneicosane (C21)	13.249	6318280	40.691 ug/ml
13) T n-Docosane (C22)	13.835	6240382	40.550 ug/ml
14) T n-Tetracosane (C24)	14.940	6014189	39.663 ug/ml
15) T n-Hexacosane (C26)	15.961	5670807	39.179 ug/ml
16) T n-Octacosane (C28)	16.912	5369739	38.826 ug/ml
17) T n-Tricontane (C30)	17.800	5308950	38.884 ug/ml
18) T n-Dotriacontane (C32)	18.634	5191328	40.264 ug/ml
19) T n-Tetratriacontane (C34)	19.419	4973239	43.587 ug/ml
20) T n-Hexatriacontane (C36)	20.158	4653828	48.121 ug/ml
21) T n-Octatriacontane (C38)	20.918	4487847	51.490 ug/ml
22) T n-Tetracontane (C40)	21.871	4232885	51.518 ug/ml

(f)=RT Delta > 1/2 Window

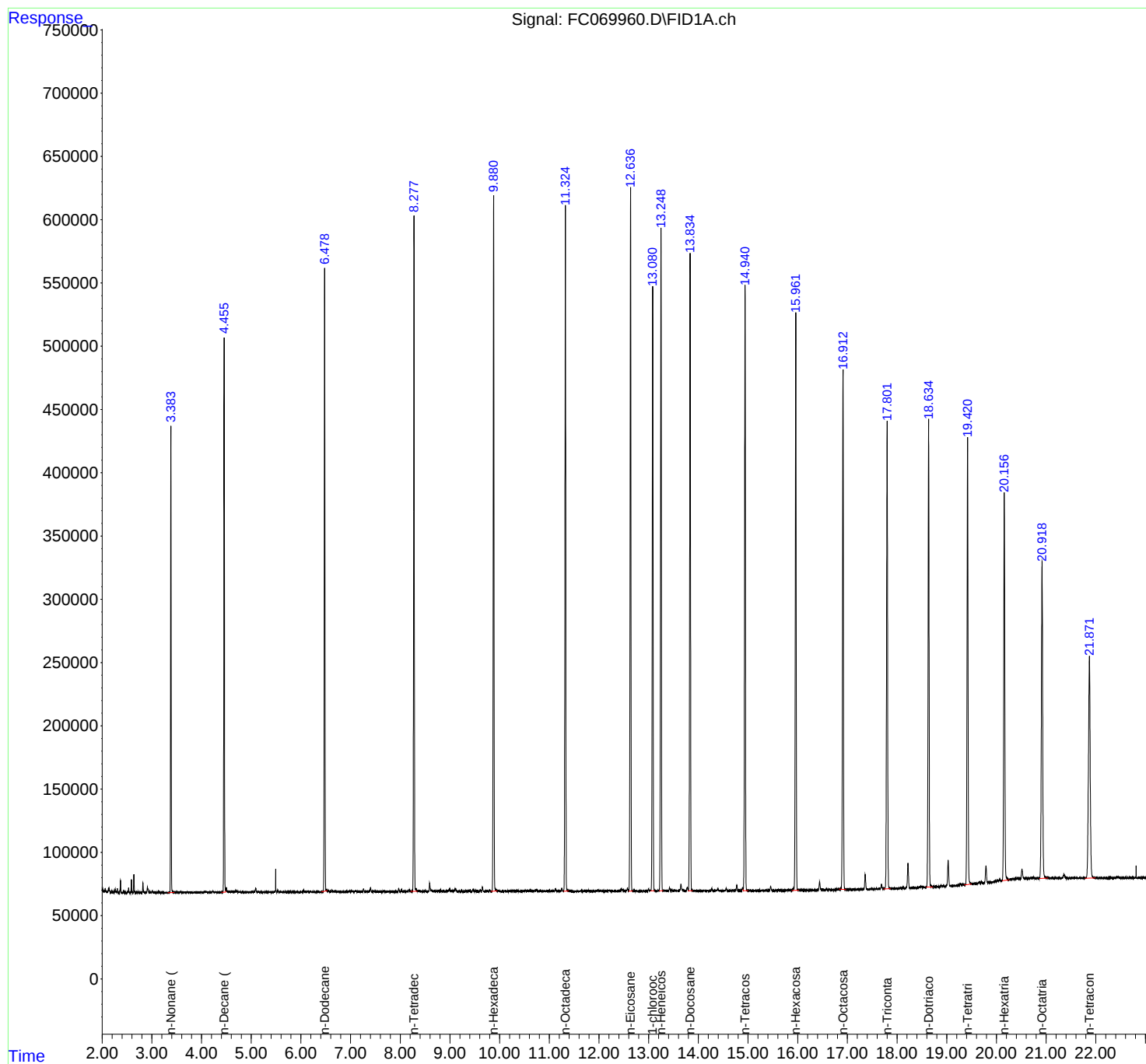
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069960.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 10:06
Operator : YP/AJ
Sample : PB170011BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170011BS

Integration File: sample.E
Quant Time: Oct 09 05:28:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069960.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 10:06
Sample : PB170011BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.324	3.449	BB	368638	3035027	46.05%	3.021%
2	4.455	4.400	4.485	BV	438460	3915940	59.42%	3.898%
3	6.478	6.415	6.535	BB	493572	4794251	72.75%	4.773%
4	8.276	8.209	8.347	BV	536307	5457722	82.81%	5.433%
5	9.880	9.829	9.955	BB	550055	5968639	90.57%	5.942%
6	11.324	11.284	11.387	PB	542499	6363164	96.55%	6.335%
7	12.636	12.597	12.675	PV	551732	6590330	100.00%	6.561%
8	13.081	13.042	13.119	BB	478585	5862702	88.96%	5.836%
9	13.249	13.207	13.289	BB	523771	6318280	95.87%	6.290%
10	13.835	13.799	13.885	VB	504107	6240382	94.69%	6.212%
11	14.940	14.902	14.999	VB	477932	6014189	91.26%	5.987%
12	15.961	15.885	16.025	BB	458453	5670807	86.05%	5.645%
13	16.912	16.830	16.975	BB	409107	5369739	81.48%	5.346%
14	17.800	17.734	17.869	BB	367183	5308950	80.56%	5.285%
15	18.634	18.590	18.722	BB	366148	5191328	78.77%	5.168%
16	19.419	19.350	19.500	BB	351603	4973239	75.46%	4.951%
17	20.158	20.110	20.264	BB	299277	4653828	70.62%	4.633%
18	20.918	20.860	21.040	BB	250473	4487847	68.10%	4.468%
19	21.871	21.777	21.995	BB	175164	4232885	64.23%	4.214%
Sum of corrected areas:						100449247		

Aliphatic EPH 100725.M Thu Oct 09 06:07:14 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BS	SDG No.:	Q3301
Lab Sample ID:	PB170011BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049829.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.76		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.86		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	16.0		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.9		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	41.8		40 - 140	84%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	42.6		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.4		40 - 140	95%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB170011BS	Acq On:	08 Oct 2025 09:22
Client Sample ID:	PB170011BS	Operator:	YP/AJ
Data file:	FD049829.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	8784015	71.537	200	ug/ml
Aromatic C12-C16	6.138	8.765	16924731	118.059	300	ug/ml
Aromatic C16-C21	8.766	13.056	34137539	240.115	500	ug/ml
Aromatic C21-C36	13.057	18.475	50083736	404.482	800	ug/ml
Aromatic EPH	4.394	18.475	109930021	834.193		ug/ml
ortho-Terphenyl (SURR)	11.616	11.616	7071670	47.37		ug/ml
2-Bromonaphthalene (SURR)	7.703	7.703	4963183	41.77		ug/ml
2-Fluorobiphenyl (SURR)	8.568	8.568	3614846	42.58		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049829.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 09:22
 Operator : YP/AJ
 Sample : PB170011BS
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :

FID_D

ClientSampleId :

PB170011BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E

Quant Time: Oct 09 06:26:30 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M

Quant Title : GC Extractables

QLast Update : Thu Oct 02 17:50:17 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 µl

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.703	4963183	41.772 ug/ml
Spiked Amount 50.000		Recovery =	83.54%
6) S 2-Fluorobiphenyl (SURR)	8.568	3614846	42.578 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	85.16%
11) S ortho-Terphenyl (SURR)	11.616	7071670	47.370 ug/ml
Spiked Amount 50.000		Recovery =	94.74%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.495	3917207	34.469 ug/ml
2) T Naphthalene (C11.7)	6.037	4866808	36.888 ug/ml
3) T 2-Methylnaphthalene (...)	7.092	4891327	35.352 ug/ml
5) T Acenaphthylene (C15.06)	8.372	5965377	40.830 ug/ml
7) T Acenaphthene (C15.5)	8.669	6068027	41.673 ug/ml
8) T Flouorene (C16.55)	9.450	6510239	44.579 ug/ml
9) T Phenanthrene (C19.36)	10.849	6892356	47.150 ug/ml
10) T Anthracene (C19.43)	10.925	6496769	47.808 ug/ml
12) T Fluoranthene (C21.85)	12.665	7118065	49.963 ug/ml
13) T Pyrene (C20.8)	12.963	7120110	50.650 ug/ml
14) T Benzo[a]anthracene (C...	14.835	6521631	51.855 ug/ml
15) T Chrysene (C27.41)	14.881	7160294	55.735 ug/ml
16) T benzo[b]fluoranthene ...	16.387	6300558	50.580 ug/ml
17) T Bnezo[k]fluoranthene ...	16.423	6092929	51.870 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.767	6025144	49.647 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.133	6279070	55.844 ug/ml
20) T Dibenz[a,h]anthracene...	18.173	5948197	48.653 ug/mlm
21) T Benzo[g,h,i]perylene ...	18.390	5589644	46.734 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049829.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 09:22
Operator : YP/AJ
Sample : PB170011BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

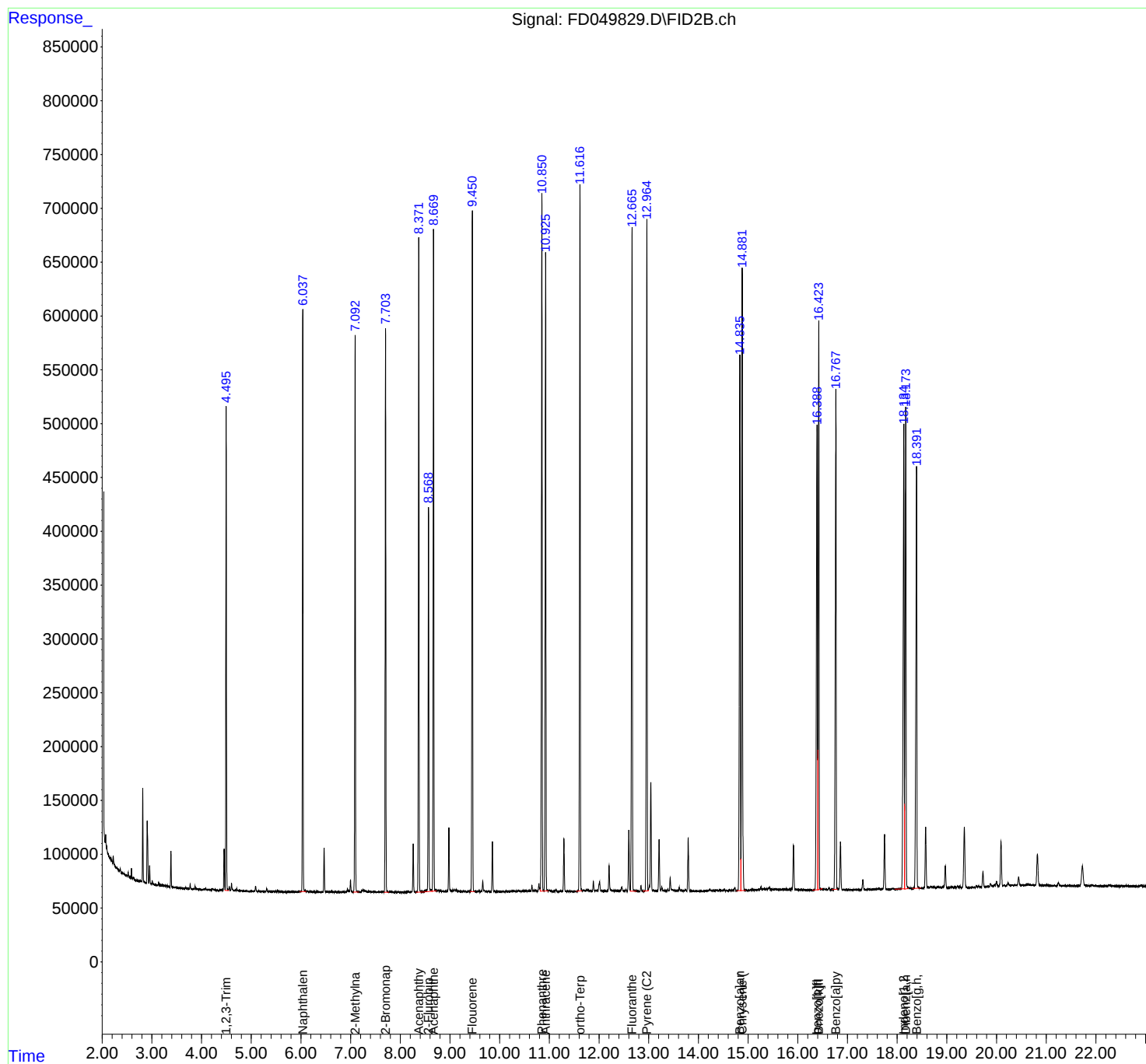
Instrument :
FID_D
ClientSampleId :
PB170011BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 06:26:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Instrument :

FID_D

ClientSampleId :

PB170011BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10082
Data File : FD049829.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 09:22
Sample : PB170011BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.495	4.472	4.541	VV	448393	3917207	54.71%	3.119%
2	6.037	5.975	6.108	BV	542297	4866808	67.97%	3.875%
3	7.092	7.051	7.161	PB	513601	4891327	68.31%	3.895%
4	7.703	7.675	7.771	BB	526331	4963183	69.32%	3.952%
5	8.372	8.308	8.465	PB	605358	5965377	83.31%	4.750%
6	8.568	8.468	8.638	BV	356223	3614846	50.48%	2.879%
7	8.669	8.638	8.735	VV	609271	6068027	84.75%	4.832%
8	9.450	9.405	9.501	BB	637171	6510239	90.92%	5.184%
9	10.849	10.818	10.891	VV	637435	6892356	96.26%	5.488%
10	10.925	10.891	10.981	VB	592873	6496769	90.73%	5.173%
11	11.616	11.538	11.665	BB	653074	7071670	98.76%	5.631%
12	12.665	12.627	12.758	VB	618770	7118065	99.41%	5.668%
13	12.963	12.878	12.991	BV	615034	7120110	99.44%	5.670%
14	14.835	14.768	14.854	BV	498152	6521631	91.08%	5.193%
15	14.881	14.854	14.951	VB	583770	7160294	100.00%	5.702%
16	16.387	16.298	16.403	BV	433433	6300558	87.99%	5.017%
17	16.423	16.403	16.495	VB	520522	6223503	86.92%	4.956%
18	16.767	16.685	16.801	BB	468247	6025144	84.15%	4.798%
19	18.133	17.951	18.149	BV	436987	6279070	87.69%	5.000%
20	18.172	18.149	18.285	VB	444379	5983892	83.57%	4.765%
21	18.390	18.305	18.475	BB	397497	5589644	78.06%	4.451%
Sum of corrected areas:						125579721		

Aromatic EPH 100225.M Thu Oct 09 07:08:27 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BSD	SDG No.:	Q3301
Lab Sample ID:	PB170011BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 11:25	10/08/25 10:50	PB170011

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	4.74		1	0.14	1.00	mg/kg	FC069961.D
Aliphatic C12-C16	Aliphatic C12-C16	3.85		1	0.11	0.67	mg/kg	FC069961.D
Aliphatic C16-C21	Aliphatic C16-C21	6.50		1	0.13	1.00	mg/kg	FC069961.D
Aliphatic C21-C28	Aliphatic C21-C28	8.67		1	0.53	1.33	mg/kg	FC069961.D
Aliphatic C28-C40	Aliphatic C28-C40	14.4		1	1.18	2.00	mg/kg	FC069961.D
Aromatic C10-C12	Aromatic C10-C12	4.77		1	0.12	0.67	mg/kg	FD049830.D
Aromatic C12-C16	Aromatic C12-C16	7.87		1	0.23	1.00	mg/kg	FD049830.D
Aromatic C16-C21	Aromatic C16-C21	16.1		1	0.40	1.67	mg/kg	FD049830.D
Aromatic C21-C36	Aromatic C21-C36	27.2		1	1.19	2.66	mg/kg	FD049830.D
Total AliphaticEPH	Total AliphaticEPH	38.2			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	55.9			1.94	6.00	mg/kg	
Total EPH	Total EPH	94.1			4.03	12.0	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BSD	SDG No.:	Q3301
Lab Sample ID:	PB170011BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069961.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	4.74		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	3.85		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	6.50		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	8.67		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.4		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.9		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170011BSD	Acq On:	08 Oct 2025 10:50
Client Sample ID:	PB170011BSD	Operator:	YP/AJ
Data file:	FC069961.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	10297625	71.123	300	ug/ml
Aliphatic C12-C16	6.579	9.979	9476044	57.858	200	ug/ml
Aliphatic C16-C21	9.980	13.346	15801523	97.573	300	ug/ml
Aliphatic C21-C28	13.347	17.010	19152734	130.165	400	ug/ml
Aliphatic C28-C40	17.011	21.966	23197649	215.592	600	ug/ml
Aliphatic EPH	3.284	21.966	77925575	572.311		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.082	13.082	5149021	37.93		ug/ml
Aliphatic C9-C28	3.284	17.010	54727926	356.719	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069961.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 10:50
 Operator : YP/AJ
 Sample : PB170011BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB170011BSD

Integration File: sample.E
 Quant Time: Oct 09 05:28:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.082	5149021	37.932 ug/ml
Spiked Amount 50.000		Recovery =	75.86%
Target Compounds			
1) T n-Nonane (C9)	3.383	2704247	19.693 ug/ml
2) T n-Decane (C10)	4.455	3445153	23.964 ug/ml
4) T n-Dodecane (C12)	6.478	4148225	27.064 ug/ml
6) T n-Tetradecane (C14)	8.275	4558447	28.662 ug/ml
7) T n-Hexadecane (C16)	9.879	4917597	29.181 ug/ml
8) T n-Octadecane (C18)	11.324	5139038	30.207 ug/ml
10) T n-Eicosane (C20)	12.635	5430595	33.849 ug/ml
11) T n-Heneicosane (C21)	13.247	5231890	33.695 ug/ml
13) T n-Docosane (C22)	13.835	5136101	33.374 ug/ml
14) T n-Tetracosane (C24)	14.939	4956103	32.685 ug/ml
15) T n-Hexacosane (C26)	15.960	4661531	32.206 ug/ml
16) T n-Octacosane (C28)	16.912	4398999	31.807 ug/ml
17) T n-Tricontane (C30)	17.800	4258848	31.193 ug/ml
18) T n-Dotriacontane (C32)	18.633	4094762	31.759 ug/ml
19) T n-Tetratriacontane (C34)	19.417	3943536	34.562 ug/ml
20) T n-Hexatriacontane (C36)	20.157	3746646	38.741 ug/ml
21) T n-Octatriacontane (C38)	20.915	3667890	42.083 ug/ml
22) T n-Tetracontane (C40)	21.868	3485967	42.428 ug/ml

(f)=RT Delta > 1/2 Window

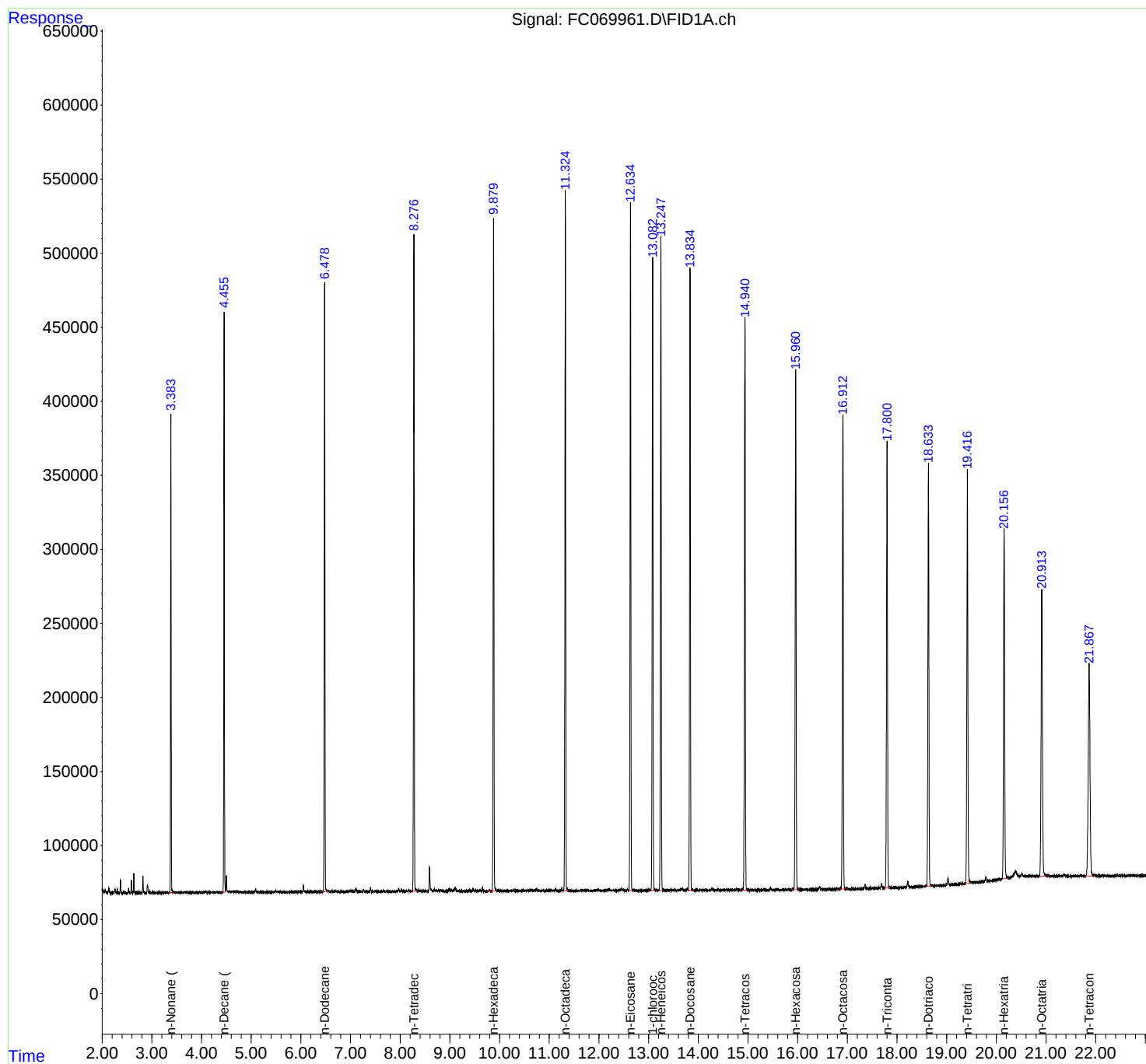
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069961.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 10:50
Operator : YP/AJ
Sample : PB170011BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170011BSD

Integration File: sample.E
Quant Time: Oct 09 05:28:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069961.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 10:50
Sample : PB170011BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.383	3.335	3.454	BB	322965	2704247	49.80%	3.255%
2	4.455	4.402	4.484	BV	392302	3445153	63.44%	4.147%
3	6.478	6.424	6.550	BB	412518	4148225	76.39%	4.993%
4	8.275	8.222	8.345	BV	442165	4558447	83.94%	5.487%
5	9.879	9.752	9.939	BB	452981	4917597	90.55%	5.919%
6	11.324	11.284	11.389	BB	473212	5139038	94.63%	6.186%
7	12.635	12.595	12.690	PB	465003	5430595	100.00%	6.537%
8	13.082	13.042	13.135	BB	428267	5149021	94.82%	6.198%
9	13.247	13.205	13.289	BB	441425	5231890	96.34%	6.298%
10	13.835	13.799	13.900	VB	420417	5136101	94.58%	6.183%
11	14.939	14.862	14.992	BB	383963	4956103	91.26%	5.966%
12	15.960	15.877	16.025	BB	351247	4661531	85.84%	5.611%
13	16.912	16.840	16.970	BB	320100	4398999	81.00%	5.295%
14	17.800	17.729	17.867	BB	301823	4258848	78.42%	5.127%
15	18.633	18.590	18.715	BB	286788	4094762	75.40%	4.929%
16	19.417	19.345	19.502	BB	279134	3943536	72.62%	4.747%
17	20.157	20.110	20.257	BB	235027	3746646	68.99%	4.510%
18	20.915	20.860	21.032	BB	192970	3667890	67.54%	4.415%
19	21.868	21.772	21.979	BB	143312	3485967	64.19%	4.196%
Sum of corrected areas:							83074595	

Aliphatic EPH 100725.M Thu Oct 09 06:08:14 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	PB170011BSD	SDG No.:	Q3301
Lab Sample ID:	PB170011BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049830.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.77		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.87		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	16.1		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	27.2		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	41.9		40 - 140	84%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	41.8		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.7		40 - 140	95%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB170011BSD	Acq On:	08 Oct 2025 10:06
Client Sample ID:	PB170011BSD	Operator:	YP/AJ
Data file:	FD049830.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	8800128	71.668	200	ug/ml
Aromatic C12-C16	6.138	8.765	16941486	118.175	300	ug/ml
Aromatic C16-C21	8.766	13.056	34399586	241.958	500	ug/ml
Aromatic C21-C36	13.057	18.475	50540693	408.173	800	ug/ml
Aromatic EPH	4.394	18.475	110681893	839.975		ug/ml
ortho-Terphenyl (SURR)	11.615	11.615	7115753	47.67		ug/ml
2-Bromonaphthalene (SURR)	7.703	7.703	4975486	41.88		ug/ml
2-Fluorobiphenyl (SURR)	8.568	8.568	3546519	41.77		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049830.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 10:06
 Operator : YP/AJ
 Sample : PB170011BSD
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB170011BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 06:27:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.703	4975486	41.876 ug/ml
Spiked Amount 50.000		Recovery =	83.75%
6) S 2-Fluorobiphenyl (SURR)	8.568	3546519	41.773 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	83.55%
11) S ortho-Terphenyl (SURR)	11.615	7115753	47.666 ug/ml
Spiked Amount 50.000		Recovery =	95.33%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.495	3925170	34.540 ug/ml
2) T Naphthalene (C11.7)	6.037	4874958	36.949 ug/ml
3) T 2-Methylnaphthalene (...)	7.092	4898147	35.401 ug/ml
5) T Acenaphthylene (C15.06)	8.371	5968955	40.854 ug/ml
7) T Acenaphthene (C15.5)	8.668	6074384	41.717 ug/ml
8) T Flouorene (C16.55)	9.450	6568132	44.976 ug/ml
9) T Phenanthrene (C19.36)	10.849	6931722	47.419 ug/ml
10) T Anthracene (C19.43)	10.924	6551710	48.212 ug/ml
12) T Fluoranthene (C21.85)	12.665	7161223	50.266 ug/ml
13) T Pyrene (C20.8)	12.963	7186799	51.124 ug/ml
14) T Benzo[a]anthracene (C...	14.835	6570765	52.245 ug/ml
15) T Chrysene (C27.41)	14.880	7230885	56.284 ug/ml
16) T benzo[b]fluoranthene ...	16.386	6354093	51.009 ug/ml
17) T Bnezo[k]fluoranthene ...	16.423	6380153	54.315 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.767	6093070	50.207 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.133	6320678	56.214 ug/ml
20) T Dibenz[a,h]anthracene...	18.173	6006154	49.127 ug/mlm
21) T Benzo[g,h,i]perylene ...	18.389	5628292	47.057 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049830.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 10:06
Operator : YP/AJ
Sample : PB170011BSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

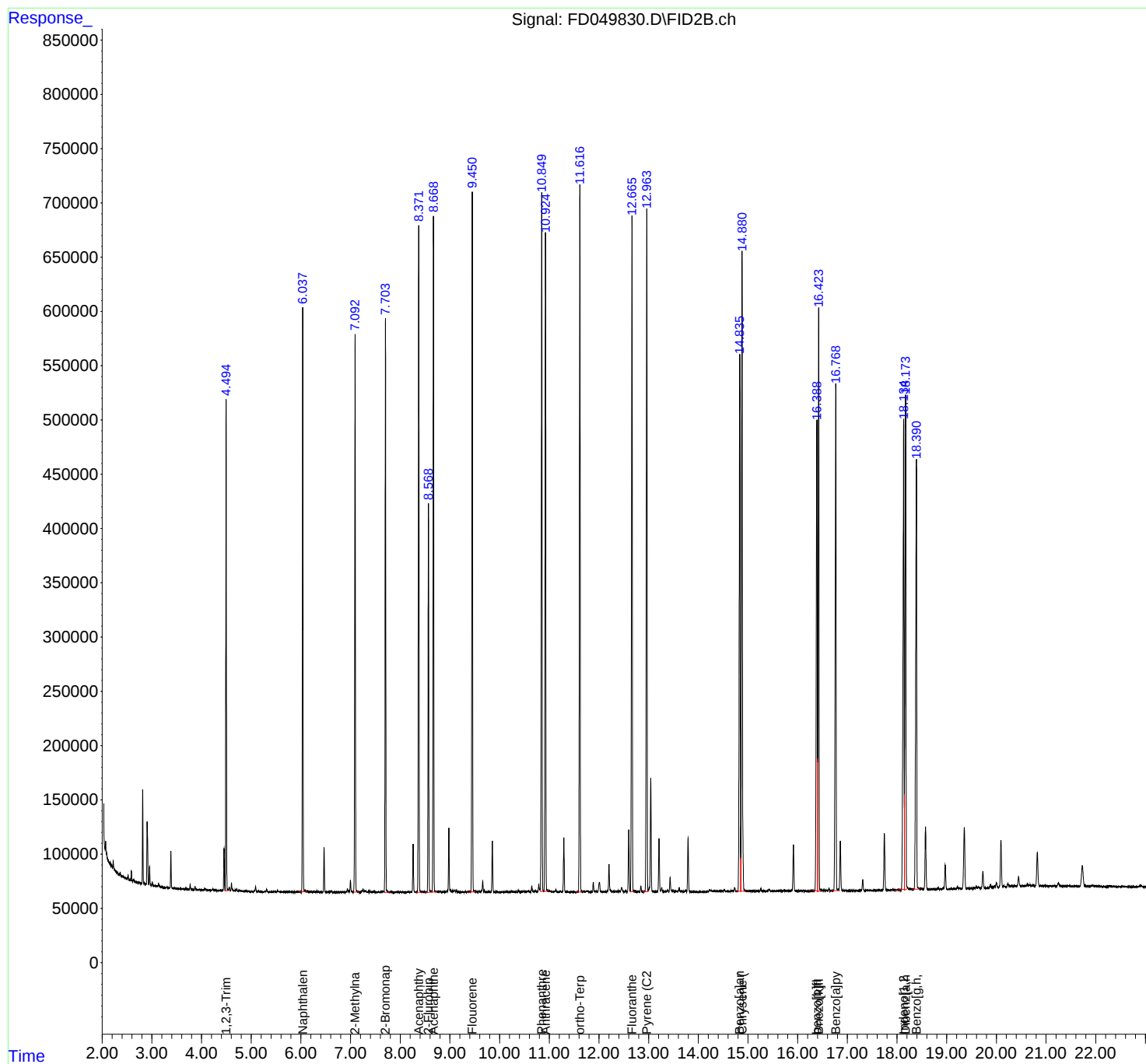
Instrument :
FID_D
ClientSampleId :
PB170011BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 06:27:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Instrument :

FID_D

ClientSampleId :

PB170011BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10082
Data File : FD049830.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 10:06
Sample : PB170011BSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.495	4.472	4.541	VV	451591	3925170	54.28%	3.107%
2	6.037	5.974	6.114	BV	538067	4874958	67.42%	3.859%
3	7.092	7.054	7.164	PB	511352	4898147	67.74%	3.878%
4	7.703	7.670	7.784	VV	522638	4975486	68.81%	3.939%
5	8.371	8.321	8.438	BV	611006	5968955	82.55%	4.725%
6	8.568	8.518	8.638	BV	357976	3546519	49.05%	2.808%
7	8.668	8.638	8.731	VB	622134	6074384	84.01%	4.809%
8	9.450	9.341	9.514	BB	652064	6568132	90.83%	5.200%
9	10.849	10.818	10.886	VV	640695	6931722	95.86%	5.487%
10	10.924	10.886	10.979	PV	608809	6551710	90.61%	5.187%
11	11.615	11.538	11.668	BB	650364	7115753	98.41%	5.633%
12	12.665	12.627	12.714	VB	620685	7161223	99.04%	5.669%
13	12.963	12.881	12.991	BV	624786	7186799	99.39%	5.689%
14	14.835	14.768	14.854	BV	494275	6570765	90.87%	5.202%
15	14.880	14.854	14.971	VB	597436	7230885	100.00%	5.724%
16	16.386	16.301	16.402	BV	438782	6354093	87.87%	5.030%
17	16.422	16.402	16.501	VB	527621	6265444	86.65%	4.960%
18	16.767	16.681	16.807	BV	469164	6093070	84.26%	4.824%
19	18.133	17.948	18.149	BV	438198	6320678	87.41%	5.004%
20	18.172	18.149	18.241	VB	451156	6077466	84.05%	4.811%
21	18.389	18.304	18.458	BB	402466	5628292	77.84%	4.456%
Sum of corrected areas:						126319650		

Aromatic EPH 100225.M Thu Oct 09 07:11:58 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	SOILMS	SDG No.:	Q3301
Lab Sample ID:	Q3301-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 11:25	10/08/25 13:43	PB170011

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	270	E	1	0.17	1.23	mg/kg	FC069965.D
Aliphatic C12-C16	Aliphatic C12-C16	1020	E	1	0.14	0.82	mg/kg	FC069965.D
Aliphatic C16-C21	Aliphatic C16-C21	988	E	1	0.16	1.23	mg/kg	FC069965.D
Aliphatic C21-C28	Aliphatic C21-C28	187	E	1	0.65	1.64	mg/kg	FC069965.D
Aliphatic C28-C40	Aliphatic C28-C40	59.8	E	1	1.46	2.47	mg/kg	FC069965.D
Aromatic C10-C12	Aromatic C10-C12	51.3	E	1	0.15	0.82	mg/kg	FD049834.D
Aromatic C12-C16	Aromatic C12-C16	239	E	1	0.28	1.23	mg/kg	FD049834.D
Aromatic C16-C21	Aromatic C16-C21	526	E	1	0.49	2.06	mg/kg	FD049834.D
Aromatic C21-C36	Aromatic C21-C36	138	E	1	1.47	3.29	mg/kg	FD049834.D
Total AliphaticEPH	Total AliphaticEPH	2530			2.58	7.39	mg/kg	
Total AromaticEPH	Total AromaticEPH	954			2.40	7.40	mg/kg	
Total EPH	Total EPH	3480			4.98	14.8	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	SOILMS	SDG No.:	Q3301
Lab Sample ID:	Q3301-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069965.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	270	E	0.17	1.23	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	1020	E	0.14	0.82	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	988	E	0.16	1.23	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	187	E	0.65	1.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	59.8	E	1.46	2.47	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	53.5		40 - 140	107%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3301-01MS	Acq On:	08 Oct 2025 13:43
Client Sample ID:	SOILMS	Operator:	YP/AJ
Data file:	FC069965.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	476826986	3290	300	ug/ml
Aliphatic C12-C16	6.579	9.979	2033708441	12400	200	ug/ml
Aliphatic C16-C21	9.980	13.346	1946756294	12000	300	ug/ml
Aliphatic C21-C28	13.347	17.010	335165897	2280	400	ug/ml
Aliphatic C28-C40	17.011	21.966	78199318	726.761	600	ug/ml
Aliphatic EPH	3.284	21.966	4870656936	30700		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.101	13.101	7263664	53.51		ug/ml
Aliphatic C9-C28	3.284	17.010	4792457618	30100	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069965.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 13:43
 Operator : YP/AJ
 Sample : Q3301-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 SOILMS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 05:30:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.101	7263664	53.511 ug/mlm
Spiked Amount 50.000		Recovery =	107.02%
Target Compounds			
1) T n-Nonane (C9)	3.384	5703067	41.532 ug/mlm
2) T n-Decane (C10)	4.463	16257816	113.088 ug/ml
4) T n-Dodecane (C12)	6.506	48643461	317.358 ug/mlm
6) T n-Tetradecane (C14)	8.325f	80534695	506.368 ug/mlm
7) T n-Hexadecane (C16)	9.939f	96727676	573.980 ug/mlm
8) T n-Octadecane (C18)	11.381f	75810555	445.605 ug/mlm
10) T n-Eicosane (C20)	12.681	55138045	343.681 ug/mlm
11) T n-Heneicosane (C21)	13.285	44164231	284.429 ug/ml
13) T n-Docosane (C22)	13.862	30346364	197.188 ug/ml
14) T n-Tetracosane (C24)	14.951	13669221	90.148 ug/ml
15) T n-Hexacosane (C26)	15.966	8951510	61.845 ug/ml
16) T n-Octacosane (C28)	16.916	7711333	55.757 ug/ml
17) T n-Tricontane (C30)	17.803	7321175	53.622 ug/ml
18) T n-Dotriacontane (C32)	18.637	6890664	53.444 ug/ml
19) T n-Tetratriacontane (C34)	19.420	6694728	58.674 ug/ml
20) T n-Hexatriacontane (C36)	20.159	6223638	64.353 ug/ml
21) T n-Octatriacontane (C38)	20.919	6011611	68.973 ug/ml
22) T n-Tetracontane (C40)	21.873	5765701	70.174 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069965.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 13:43
Operator : YP/AJ
Sample : Q3301-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

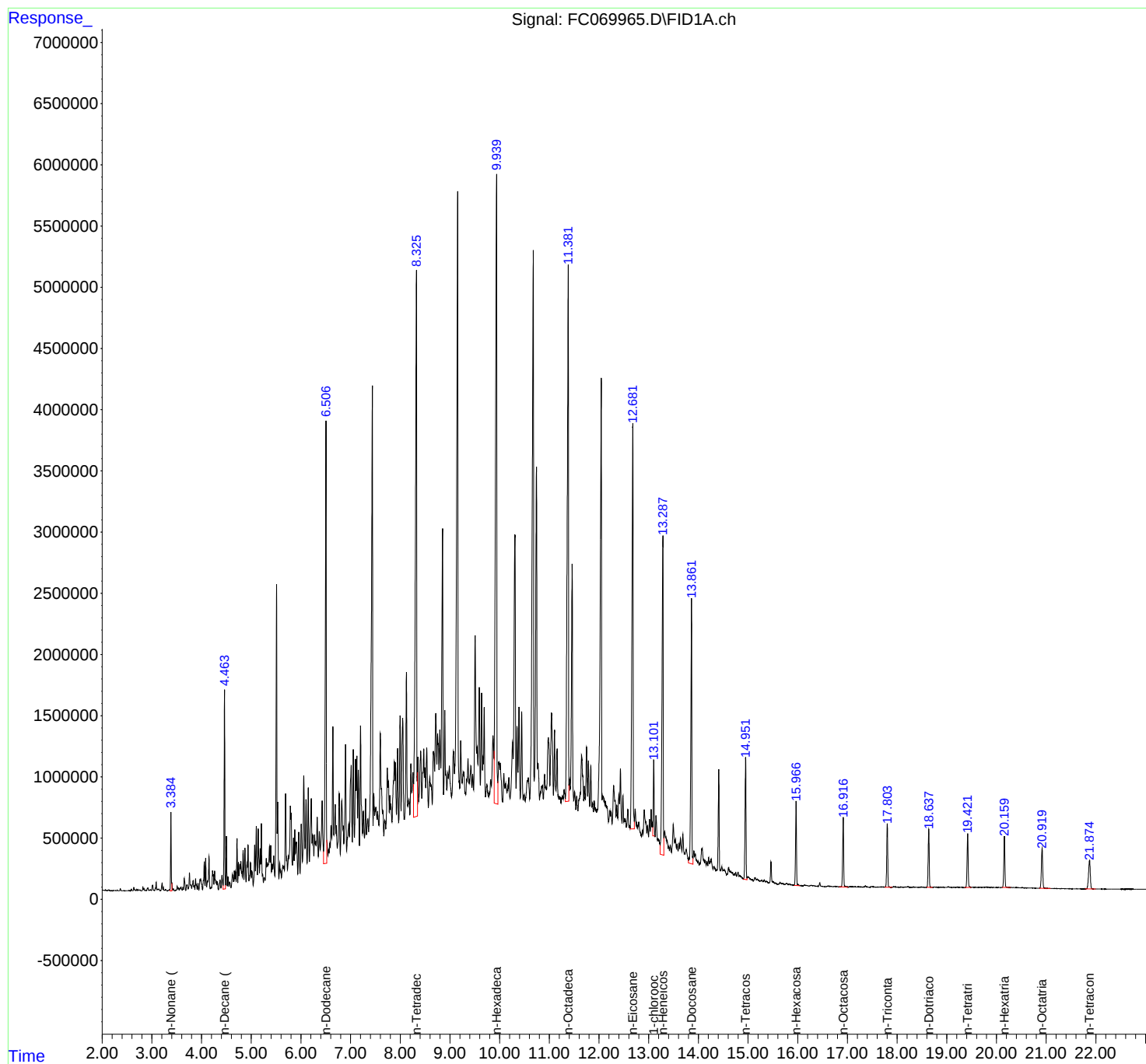
Instrument :
FID_C
ClientSampleId :
SOILMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 05:30:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_C

ClientSampleId :

SOILMS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10092
Data File : FC069965.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 13:43
Sample : Q3301-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.231	3.205	3.249	BV	2965	-186421	-0.12%	-0.004%
2	3.278	3.249	3.311	PV	11824	145773	0.09%	0.003%
3	3.384	3.311	3.465	PV	643178	6339973	4.00%	0.130%
4	3.511	3.465	3.550	VV	36815	704344	0.44%	0.014%
5	3.586	3.550	3.611	VV	32503	626500	0.39%	0.013%
6	3.655	3.611	3.683	VV	96038	1725855	1.09%	0.035%
7	3.708	3.683	3.732	VV	47192	919498	0.58%	0.019%
8	3.758	3.732	3.801	VV	147295	2362565	1.49%	0.049%
9	3.829	3.801	3.863	VV	80780	1714442	1.08%	0.035%
10	3.882	3.863	3.948	VV	95102	1990039	1.25%	0.041%
11	3.974	3.948	4.021	VV	90869	2493546	1.57%	0.051%
12	4.084	4.021	4.105	VV	265238	5704235	3.60%	0.117%
13	4.150	4.105	4.194	VV	283533	4624085	2.92%	0.095%
14	4.225	4.194	4.248	VV	144135	2891747	1.82%	0.059%
15	4.264	4.248	4.340	VV	160503	4059002	2.56%	0.083%
16	4.370	4.340	4.390	VV	86391	1408755	0.89%	0.029%
17	4.413	4.390	4.434	VV	125434	1877429	1.18%	0.039%
18	4.462	4.434	4.484	VV	1615260	16687231	10.52%	0.343%
19	4.501	4.484	4.551	VV	446565	5693677	3.59%	0.117%
20	4.567	4.551	4.592	VV	67514	1272010	0.80%	0.026%
21	4.623	4.592	4.644	VV	131642	2736432	1.73%	0.056%
22	4.714	4.644	4.754	VV	430216	10633438	6.70%	0.218%
23	4.790	4.754	4.821	VV	241954	7133492	4.50%	0.146%
24	4.873	4.821	4.896	VV	347913	9145462	5.77%	0.188%
25	4.934	4.896	4.958	VV	374954	7309012	4.61%	0.150%
26	4.985	4.958	5.040	VV	230740	6806614	4.29%	0.140%
27	5.102	5.040	5.124	VV	525902	12383192	7.81%	0.254%
28	5.142	5.124	5.165	VV	497598	7311096	4.61%	0.150%
29	5.203	5.165	5.281	VV	552999	13667736	8.62%	0.281%
30	5.304	5.281	5.341	VV	254747	7153837	4.51%	0.147%
31	5.391	5.341	5.434	VV	368946	13920927	8.78%	0.286%
32	5.452	5.434	5.473	VV	284195	4859048	3.06%	0.100%
33	5.508	5.473	5.558	VV	2435530	38276866	24.13%	0.786%
34	5.574	5.558	5.608	VV	224390	4862278	3.07%	0.100%
35	5.637	5.608	5.668	VV	204118	6254276	3.94%	0.128%
36	5.691	5.668	5.731	VV	791889	14347006	9.05%	0.295%

					riteres			
37	5.792	5.731	5.831	VV	638348	22993132	14.50%	0.472%
38	5.878	5.831	5.936	VV	492322	21129752	13.50%	0.472%
39	5.958	5.936	5.982	VV	473026	8107262	5.87%	0.517%
40	6.007	5.982	6.031	VV	540892	10352447	6.88%	0.224%
41	6.058	6.031	6.083	VV	932633	17102361	10.09%	0.426%
42	6.103	6.083	6.125	VV	747366	11826117	7.15%	0.233%
43	6.148	6.125	6.172	VV	841286	13399472	8.45%	0.275%
44	6.207	6.172	6.261	VV	751894	25177689	15.87%	0.517%
45	6.278	6.261	6.308	VV	437683	10908908	6.88%	0.224%
46	6.328	6.308	6.351	VV	600782	11347570	7.15%	0.233%
47	6.371	6.351	6.390	VV	481457	9040565	5.70%	0.186%
48	6.427	6.390	6.455	VV	735435	18585968	11.72%	0.382%
49	6.503	6.455	6.568	VV	3538116	66960098	42.22%	1.375%
50	6.644	6.568	6.668	VV	1347354	34517745	21.76%	0.709%
51	6.690	6.668	6.734	VV	708309	20765189	13.09%	0.426%
52	6.771	6.734	6.794	VV	794698	18306735	11.54%	0.376%
53	6.823	6.794	6.864	VV	734116	22701268	14.31%	0.466%
54	6.898	6.864	6.924	VV	1185436	23654573	14.91%	0.486%
55	7.009	6.924	7.034	VV	987465	39955789	25.19%	0.820%
56	7.055	7.034	7.078	VV	1149439	19051948	12.01%	0.391%
57	7.125	7.078	7.141	VV	1088303	31796738	20.05%	0.653%
58	7.156	7.141	7.178	VV	989848	15647248	9.87%	0.321%
59	7.201	7.178	7.240	VV	1341926	28229139	17.80%	0.580%
60	7.257	7.240	7.280	VV	646194	12829569	8.09%	0.263%
61	7.302	7.280	7.321	VV	745192	14140017	8.91%	0.290%
62	7.345	7.321	7.363	VV	584001	13406469	8.45%	0.275%
63	7.435	7.363	7.487	VV	3835547	100176366	63.16%	2.057%
64	7.508	7.487	7.567	VV	671985	29845059	18.82%	0.613%
65	7.599	7.567	7.670	VV	1280409	47514219	29.96%	0.976%
66	7.690	7.670	7.708	VV	569495	12217289	7.70%	0.251%
67	7.741	7.708	7.831	VV	987166	54553602	34.39%	1.120%
68	7.880	7.831	7.924	VV	1056611	47093570	29.69%	0.967%
69	7.946	7.924	7.969	VV	1162012	22688355	14.30%	0.466%
70	7.996	7.969	8.018	VV	1423809	27579895	17.39%	0.566%
71	8.047	8.018	8.081	VV	1412070	37487326	23.63%	0.770%
72	8.123	8.081	8.154	VV	1796473	42108963	26.55%	0.865%
73	8.174	8.154	8.192	VV	742571	16202227	10.21%	0.333%
74	8.215	8.192	8.234	VV	1013090	21539684	13.58%	0.442%
75	8.320	8.234	8.374	VV	4802665	142095694	89.59%	2.917%
76	8.409	8.374	8.434	VV	1123227	33632534	21.20%	0.691%
77	8.472	8.434	8.511	VV	1151343	43899640	27.68%	0.901%
78	8.532	8.511	8.565	VV	1159522	30394356	19.16%	0.624%
79	8.594	8.565	8.642	VV	926098	38153350	24.05%	0.783%
80	8.671	8.642	8.690	VV	1125609	28255446	17.81%	0.580%
81	8.715	8.690	8.779	VV	1440737	64001558	40.35%	1.314%
82	8.796	8.779	8.815	VV	1300711	24586182	15.50%	0.505%
83	8.848	8.815	8.873	VV	2894555	59535998	37.54%	1.222%
84	8.896	8.873	8.937	VV	1466222	39444162	24.87%	0.810%
85	8.987	8.937	9.033	VV	1017691	51528986	32.49%	1.058%
86	9.070	9.033	9.091	VV	1134052	33888798	21.37%	0.696%
87	9.151	9.091	9.198	VV	5366110	136929358	86.33%	2.811%
88	9.217	9.198	9.245	VV	1212197	28336258	17.87%	0.582%
89	9.269	9.245	9.318	VV	963866	38992835	24.58%	0.801%

Instrument :

FID_C

ClientSampleId :

SOILMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Instrument :

FID_C

ClientSampleId :

SOILMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

rteres									
90	9.364	9.318	9.390	VV	1072060	39765527	25.07%	0.816%	
91	9.420	9.390	9.442	VV	1017238	29176334	18.00%	0.816%	
92	9.457	9.442	9.474	VV	947300	17005184	10.00%	0.816%	
93	9.507	9.474	9.562	VV	2078838	69030837	43.00%	0.816%	
94	9.589	9.562	9.612	VV	1641431	38001987	23.00%	0.816%	
95	9.636	9.612	9.658	VV	1626372	33110961	20.00%	0.816%	
96	9.688	9.658	9.718	VV	1489261	38887910	24.52%	0.798%	
97	9.742	9.718	9.785	VV	868315	32259868	20.34%	0.662%	
98	9.867	9.785	9.883	VV	1257648	56825389	35.83%	1.167%	
99	9.933	9.883	9.963	VV	5570217	131960307	83.20%	2.709%	
100	9.988	9.963	10.058	VV	1043710	53450570	33.70%	1.097%	
101	10.085	10.058	10.148	VV	950706	45686632	28.80%	0.938%	
102	10.185	10.148	10.210	VV	912660	30836227	19.44%	0.633%	
103	10.306	10.210	10.333	VV	2870649	103236231	65.09%	2.120%	
104	10.351	10.333	10.368	VV	1331410	23076720	14.55%	0.474%	
105	10.390	10.368	10.417	VV	1503279	32642382	20.58%	0.670%	
106	10.444	10.417	10.514	VV	1461994	53303858	33.61%	1.094%	
107	10.574	10.514	10.606	VV	912725	45948575	28.97%	0.943%	
108	10.673	10.606	10.698	VV	5069472	123669575	77.97%	2.539%	
109	10.739	10.698	10.805	VV	3397078	96737369	60.99%	1.986%	
110	10.853	10.805	10.881	VV	845734	36975349	23.31%	0.759%	
111	10.904	10.881	10.945	VV	942763	32317037	20.37%	0.664%	
112	10.981	10.945	11.012	VV	1241068	43024972	27.13%	0.883%	
113	11.045	11.012	11.083	VV	1439119	48726902	30.72%	1.000%	
114	11.105	11.083	11.135	VV	1299569	30175550	19.02%	0.620%	
115	11.156	11.135	11.233	VV	1152609	49092734	30.95%	1.008%	
116	11.300	11.233	11.319	VV	818002	39570508	24.95%	0.812%	
117	11.376	11.319	11.421	VV	4887135	122649197	77.33%	2.518%	
118	11.458	11.421	11.491	VV	2625993	59948755	37.80%	1.231%	
119	11.509	11.491	11.533	VV	799549	18803589	11.86%	0.386%	
120	11.550	11.533	11.574	VV	762154	17523393	11.05%	0.360%	
121	11.650	11.574	11.693	VV	1085263	60056905	37.86%	1.233%	
122	11.707	11.693	11.725	VV	847832	15107703	9.52%	0.310%	
123	11.749	11.725	11.770	VV	1163236	26201748	16.52%	0.538%	
124	11.786	11.770	11.815	VV	1058980	22597262	14.25%	0.464%	
125	11.835	11.815	11.888	VV	1013317	33516112	21.13%	0.688%	
126	11.906	11.888	11.955	VV	725216	26695799	16.83%	0.548%	
127	12.041	11.955	12.192	VV	3926241	158612265	100.00%	3.257%	
128	12.219	12.192	12.263	VV	644872	25582999	16.13%	0.525%	
129	12.296	12.263	12.342	VV	852257	33958456	21.41%	0.697%	
130	12.357	12.342	12.378	VV	687207	13671815	8.62%	0.281%	
131	12.431	12.378	12.460	VV	990195	36375300	22.93%	0.747%	
132	12.481	12.460	12.551	VV	768793	32765177	20.66%	0.673%	
133	12.581	12.551	12.625	VV	658271	24652012	15.54%	0.506%	
134	12.677	12.625	12.711	VV	3753916	81004185	51.07%	1.663%	
135	12.729	12.711	12.777	VV	657184	22583804	14.24%	0.464%	
136	12.799	12.777	12.858	VV	551910	23818150	15.02%	0.489%	
137	12.912	12.858	12.963	VV	651913	33499894	21.12%	0.688%	
138	12.977	12.963	12.998	VV	526873	10223083	6.45%	0.210%	
139	13.050	12.998	13.081	VV	655281	27030713	17.04%	0.555%	
140	13.102	13.081	13.128	VV	1067217	19633242	12.38%	0.403%	
141	13.149	13.128	13.231	VV	600459	27804669	17.53%	0.571%	

				rteres				
142	13.283	13.231	13.418	VV	2768265	83968876	52.94%	1.724%
143	13.436	13.418	13.457	VV	362917	7986164		
144	13.496	13.457	13.591	VV	533374	31605638	19.58%	0.863%
145	13.641	13.591	13.667	VV	418647	16369758	10.71%	0.402%
146	13.688	13.667	13.731	VV	452378	13580030	8.37%	0.436%
147	13.754	13.731	13.800	VV	329763	12031265		
148	13.860	13.800	13.890	VV	2391763	42023840	26.49%	0.863%
149	13.911	13.890	14.018	VV	318098	19560302	12.33%	0.402%
150	14.073	14.018	14.158	VV	336617	21242352	13.39%	0.436%
151	14.175	14.158	14.191	VV	228504	4281749	2.70%	0.088%
152	14.207	14.191	14.225	VV	262020	4644151	2.93%	0.095%
153	14.256	14.225	14.294	VV	249863	9102961	5.74%	0.187%
154	15.313	14.294	14.354	VV	191375	6262390	3.95%	0.129%
155	14.410	14.354	14.445	VV	990265	19328368	12.19%	0.397%
156	14.472	14.445	14.581	VV	186839	12632446	7.96%	0.259%
157	14.608	14.581	14.706	VV	182500	10929136	6.89%	0.224%
158	14.721	14.706	14.738	VV	131596	2391226	1.51%	0.049%
159	14.751	14.738	14.771	VV	143167	2549430	1.61%	0.052%
160	14.798	14.771	14.900	VV	144254	8662875	5.46%	0.178%
161	14.950	14.900	14.981	VV	1096480	17755142	11.19%	0.365%
162	14.999	14.981	15.066	VV	107634	4765089	3.00%	0.098%
163	15.080	15.066	15.105	VV	85068	1862335	1.17%	0.038%
164	15.139	15.105	15.174	VV	98509	3597295	2.27%	0.074%
165	15.187	15.174	15.261	VV	85776	3960813	2.50%	0.081%
166	15.276	15.261	15.305	VV	78929	1875443	1.18%	0.039%
167	15.327	15.305	15.355	VV	78886	2162468	1.36%	0.044%
168	15.374	15.355	15.424	VV	70464	2528969	1.59%	0.052%
169	15.461	15.424	15.615	VV	227735	8341151	5.26%	0.171%
170	15.642	15.615	15.744	VV	59171	3789994	2.39%	0.078%
171	15.778	15.744	15.805	VV	51600	1704626	1.07%	0.035%
172	15.829	15.805	15.924	VV	45452	2887276	1.82%	0.059%
173	15.966	15.924	16.102	VV	718284	12386767	7.81%	0.254%
174	16.132	16.102	16.231	VV	37424	2520139	1.59%	0.052%
175	16.273	16.231	16.303	VV	33562	1361124	0.86%	0.028%
176	16.320	16.303	16.411	VV	32944	1858150	1.17%	0.038%
177	16.443	16.411	16.533	VV	56071	2244755	1.42%	0.046%
178	16.547	16.533	16.566	VV	24020	472588	0.30%	0.010%
179	16.606	16.566	16.651	VV	28004	1312185	0.83%	0.027%
180	16.670	16.651	16.704	VV	26595	795293	0.50%	0.016%
181	16.745	16.704	16.760	VV	25352	806783	0.51%	0.017%
182	16.787	16.760	16.853	VV	26302	1306533	0.82%	0.027%
183	16.915	16.853	17.010	VV	581691	9686898	6.11%	0.199%
184	17.064	17.010	17.131	VV	24868	1604944	1.01%	0.033%
185	17.146	17.131	17.191	VV	22456	767550	0.48%	0.016%
186	17.238	17.191	17.275	VV	21894	1045755	0.66%	0.021%
187	17.284	17.275	17.308	VV	20098	394398	0.25%	0.008%
188	17.360	17.308	17.430	VV	27458	1562687	0.99%	0.032%
189	17.495	17.430	17.618	VV	22952	2232880	1.41%	0.046%
190	17.687	17.618	17.748	VV	21604	1529644	0.96%	0.031%
191	17.802	17.748	17.901	VV	539532	8899694	5.61%	0.183%
192	17.946	17.901	18.038	VV	21576	1572107	0.99%	0.032%
193	18.092	18.038	18.131	VV	19395	1009673	0.64%	0.021%
194	18.218	18.131	18.258	VV	23215	1466333	0.92%	0.030%

Instrument :

FID_C

ClientSampleId :

SOILMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

					rters			
195	18.275	18.258	18.294	VV	17871	375086	0.24%	0.008%
196	18.321	18.294	18.336	VV	18441	443915		
197	18.354	18.336	18.408	VV	19520	751789		
198	18.420	18.408	18.451	VV	17460	434538		
199	18.516	18.451	18.573	VV	18975	1260312		
200	18.636	18.573	18.716	VV	480791	8275043		
201	18.753	18.716	18.811	VV	18658	973336	0.61%	0.020%
202	18.816	18.811	18.851	VV	17085	395386	0.25%	0.008%
203	18.888	18.851	18.908	VV	17642	557516	0.35%	0.011%
204	18.920	18.908	18.982	VV	16826	714754	0.45%	0.015%
205	19.029	18.982	19.125	VV	21439	1424643	0.90%	0.029%
206	19.143	19.125	19.357	VV	17057	2205659	1.39%	0.045%
207	19.420	19.357	19.516	VV	460313	8124261	5.12%	0.167%
208	19.531	19.516	19.608	VV	17122	859630	0.54%	0.018%
209	19.618	19.608	19.633	VV	15767	232419	0.15%	0.005%
210	19.650	19.633	19.771	VV	16288	1260470	0.79%	0.026%
211	19.789	19.771	19.806	VV	18335	348380	0.22%	0.007%
212	19.829	19.806	19.871	VV	16807	614194	0.39%	0.013%
213	19.906	19.871	19.935	VV	14912	557150	0.35%	0.011%
214	19.945	19.935	20.005	VV	14699	599771	0.38%	0.012%
215	20.014	20.005	20.038	VV	14527	285196	0.18%	0.006%
216	20.053	20.038	20.087	VV	14928	417022	0.26%	0.009%
217	20.159	20.087	20.328	VV	431030	8192614	5.17%	0.168%
218	20.343	20.328	20.481	VV	13771	1161313	0.73%	0.024%
219	20.511	20.481	20.597	VV	12134	736250	0.46%	0.015%
220	20.625	20.597	20.692	VV	10105	535445	0.34%	0.011%
221	20.707	20.692	20.735	VV	9226	227944	0.14%	0.005%
222	20.750	20.735	20.851	VV	9246	540556	0.34%	0.011%
223	20.918	20.851	21.195	VV	332506	7116771	4.49%	0.146%
224	21.213	21.195	21.314	VV	3930	254678	0.16%	0.005%
225	21.352	21.314	21.459	VV	3632	242766	0.15%	0.005%
226	21.474	21.459	21.578	VV	2251	126018	0.08%	0.003%
227	21.618	21.578	21.798	VV	1611	127465	0.08%	0.003%
228	21.872	21.798	22.001	VBA	234164	5741363	3.62%	0.118%
Sum of corrected areas:					4870616291			

Instrument :

FID_C

ClientSampleId :

SOILMS

0.24% 0.008%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Aliphatic EPH 100725.M Thu Oct 09 06:20:35 2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	SOILMS	SDG No.:	Q3301
Lab Sample ID:	Q3301-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049834.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	51.3	E	0.15	0.82	mg/kg
Aromatic C12-C16	Aromatic C12-C16	239	E	0.28	1.23	mg/kg
Aromatic C16-C21	Aromatic C16-C21	526	E	0.49	2.06	mg/kg
Aromatic C21-C36	Aromatic C21-C36	138	E	1.47	3.29	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	91.9		40 - 140	184%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	67.3		40 - 140	135%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.3		40 - 140	95%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3301-01MS	Acq On:	08 Oct 2025 13:00
Client Sample ID:	SOILMS	Operator:	YP/AJ
Data file:	FD049834.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	76620834	624.002	200	ug/ml
Aromatic C12-C16	6.138	8.765	417846365	2910	300	ug/ml
Aromatic C16-C21	8.766	13.056	910701191	6410	500	ug/ml
Aromatic C21-C36	13.057	18.475	208982689	1690	800	ug/ml
Aromatic EPH	4.394	18.475	1614151079	11600		ug/ml
2-Bromonaphthalene (SURR)	7.711	7.711	10918476	91.89		ug/ml
2-Fluorobiphenyl (SURR)	8.579	8.579	5710282	67.26		ug/ml
ortho-Terphenyl (SURR)	11.626	11.626	7062239	47.31		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049834.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 13:00
 Operator : YP/AJ
 Sample : Q3301-01MS
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 SOILMS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 06:28:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 02 17:50:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.711	10918476	91.895 ug/mlm
Spiked Amount 50.000		Recovery =	183.79%
6) S 2-Fluorobiphenyl (SURR)	8.579	5710282	67.259 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery =	134.52%#
11) S ortho-Terphenyl (SURR)	11.626	7062239	47.307 ug/mlm
Spiked Amount 50.000		Recovery =	94.61%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.494	5172932	45.519 ug/ml
2) T Naphthalene (C11.7)	6.041	9015885	68.335 ug/ml
3) T 2-Methylnaphthalene (...)	7.106	18695009	135.116 ug/mlm
5) T Acenaphthylene (C15.06)	8.387	17237436	117.981 ug/mlm
7) T Acenaphthene (C15.5)	8.684	16136817	110.822 ug/mlm
8) T Flouorene (C16.55)	9.470	17832462	122.109 ug/mlm
9) T Phenanthrene (C19.36)	10.872	16498428	112.863 ug/mlm
10) T Anthracene (C19.43)	10.948	15900526	117.007 ug/mlm
12) T Fluoranthene (C21.85)	12.686	15791110	110.842 ug/mlm
13) T Pyrene (C20.8)	12.983	14887056	105.901 ug/mlm
14) T Benzo[a]anthracene (C...	14.847	12810981	101.863 ug/mlm
15) T Chrysene (C27.41)	14.895	14572981	113.434 ug/mlm
16) T benzo[b]fluoranthene ...	16.398	12392422	99.484 ug/ml
17) T Bnezo[k]fluoranthene ...	16.438	11343655	96.571 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.780	11603507	95.613 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.148	12448227	110.711 ug/ml
20) T Dibenz[a,h]anthracene...	18.188	10879686	88.989 ug/mlm
21) T Benzo[g,h,i]perylene ...	18.408	11424781	95.521 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049834.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 13:00
Operator : YP/AJ
Sample : Q3301-01MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

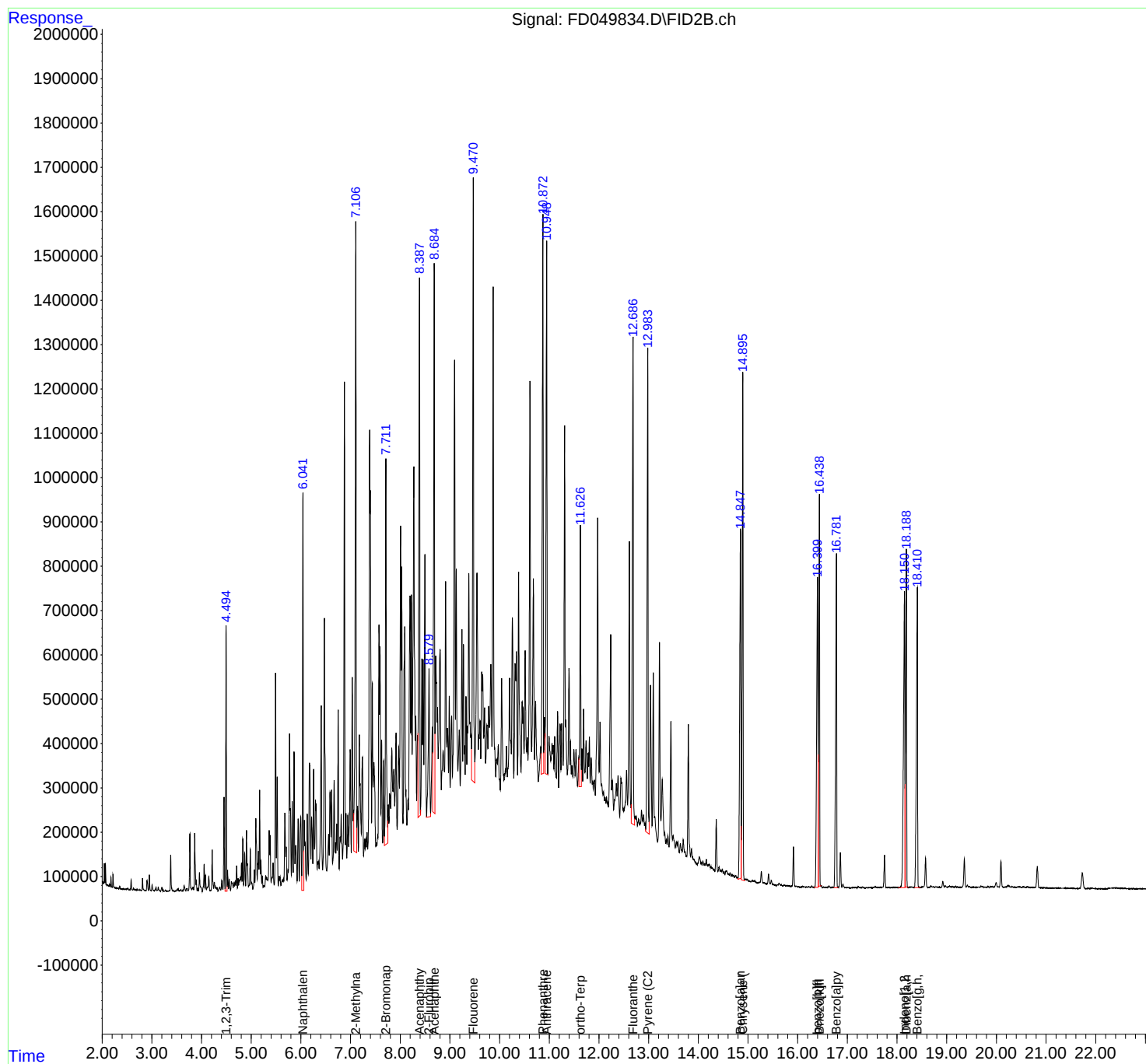
Instrument :
FID_D
ClientSampleId :
SOILMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 06:28:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



nteres

Instrument :

FID_D

ClientSampleId :

SOILMS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10082
Data File : FD049834.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 13:00
Sample : Q3301-01MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.259	4.252	4.285	PH	13677	125311	0.46%	0.008%
2	4.294	4.285	4.306	PV	3870	29256	0.11%	0.002%
3	4.316	4.306	4.332	VV	6085	45413	0.17%	0.003%
4	4.368	4.332	4.387	PV	10331	176895	0.64%	0.011%
5	4.408	4.387	4.430	VV	24420	286261	1.04%	0.017%
6	4.453	4.430	4.473	VV	212310	1977824	7.21%	0.119%
7	4.494	4.473	4.513	VV	596300	5167972	18.84%	0.312%
8	4.525	4.513	4.543	VV	47539	451958	1.65%	0.027%
9	4.557	4.543	4.584	VV	28028	314733	1.15%	0.019%
10	4.603	4.584	4.613	VV	21958	241228	0.88%	0.015%
11	4.619	4.613	4.638	VV	18489	223297	0.81%	0.013%
12	4.653	4.638	4.665	VV	19609	227793	0.83%	0.014%
13	4.678	4.665	4.692	VV	22886	283973	1.04%	0.017%
14	4.707	4.692	4.722	VV	57552	559138	2.04%	0.034%
15	4.736	4.722	4.748	VV	29160	284522	1.04%	0.017%
16	4.763	4.748	4.772	VV	26107	328380	1.20%	0.020%
17	4.784	4.772	4.792	VV	31882	329576	1.20%	0.020%
18	4.804	4.792	4.816	VV	64035	621018	2.26%	0.037%
19	4.831	4.816	4.847	VV	118314	1142304	4.16%	0.069%
20	4.868	4.847	4.888	VV	86188	1080789	3.94%	0.065%
21	4.905	4.888	4.919	VV	137092	1399446	5.10%	0.084%
22	4.923	4.919	4.945	VV	62186	605104	2.21%	0.037%
23	4.981	4.945	4.998	VV	94462	1126747	4.11%	0.068%
24	5.007	4.998	5.031	VV	18935	287615	1.05%	0.017%
25	5.062	5.031	5.074	VV	48472	574135	2.09%	0.035%
26	5.093	5.074	5.121	VV	163615	2497250	9.11%	0.151%
27	5.146	5.121	5.156	VV	90183	1309706	4.78%	0.079%
28	5.170	5.156	5.185	VV	228541	2172221	7.92%	0.131%
29	5.194	5.185	5.212	VV	68267	747508	2.73%	0.045%
30	5.223	5.212	5.239	VV	33507	349945	1.28%	0.021%
31	5.252	5.239	5.270	VV	12778	199865	0.73%	0.012%
32	5.291	5.270	5.302	VV	34715	461799	1.68%	0.028%
33	5.312	5.302	5.335	VV	30839	536581	1.96%	0.032%
34	5.361	5.335	5.372	VV	136988	1674218	6.10%	0.101%
35	5.382	5.372	5.400	VV	126195	1290923	4.71%	0.078%
36	5.421	5.400	5.425	VV	31112	407079	1.48%	0.025%

Parameters									
37	5.440	5.425	5.463	VV	63733	835311	3.05%	0.050%	
38	5.490	5.463	5.507	VV	491658	5064486	18.80%	0.146%	
39	5.522	5.507	5.545	VV	257347	2912671	10.30%	0.060%	
40	5.561	5.545	5.571	VV	33781	385427	3.05%	0.050%	
41	5.580	5.571	5.598	VV	32203	374490	1.18%	0.020%	
42	5.622	5.598	5.635	VV	23339	437331	8.80%	0.146%	
43	5.647	5.635	5.657	VV	26283	323249	3.63%	0.060%	
44	5.678	5.657	5.696	VV	176266	2412676	8.80%	0.146%	
45	5.704	5.696	5.721	VV	99618	994984	3.63%	0.060%	
46	5.740	5.721	5.747	VV	47842	571863	2.09%	0.035%	
47	5.772	5.747	5.808	VV	354506	6111447	22.28%	0.369%	
48	5.825	5.808	5.846	VV	202134	2371275	8.65%	0.143%	
49	5.864	5.846	5.881	VV	314222	3388753	12.36%	0.205%	
50	5.897	5.881	5.925	VV	102694	1956926	7.14%	0.118%	
51	5.945	5.925	5.968	VV	162787	2244479	8.18%	0.136%	
52	5.997	5.968	6.017	VV	167577	3100157	11.30%	0.187%	
53	6.041	6.017	6.058	VV	895628	8990232	32.78%	0.543%	
54	6.069	6.058	6.081	VV	158923	1726108	6.29%	0.104%	
55	6.086	6.081	6.106	VV	108728	1066002	3.89%	0.064%	
56	6.128	6.106	6.150	VV	173218	2192059	7.99%	0.132%	
57	6.173	6.150	6.202	VV	288128	5507463	20.08%	0.333%	
58	6.217	6.202	6.240	VV	167210	2778739	10.13%	0.168%	
59	6.256	6.240	6.275	VV	274608	3365856	12.27%	0.203%	
60	6.295	6.275	6.302	VV	204752	2424318	8.84%	0.146%	
61	6.308	6.302	6.327	VV	196945	1976379	7.21%	0.119%	
62	6.339	6.327	6.346	VV	65002	655535	2.39%	0.040%	
63	6.353	6.346	6.367	VV	66527	766172	2.79%	0.046%	
64	6.409	6.367	6.438	VV	419244	7023944	25.61%	0.424%	
65	6.472	6.438	6.520	VV	613956	10116812	36.89%	0.611%	
66	6.559	6.520	6.570	VV	127906	2513427	9.16%	0.152%	
67	6.586	6.570	6.606	VV	221913	3596793	13.11%	0.217%	
68	6.619	6.606	6.639	VV	227344	2874387	10.48%	0.174%	
69	6.670	6.639	6.686	VV	249528	3772856	13.76%	0.228%	
70	6.694	6.686	6.705	VV	108816	1123993	4.10%	0.068%	
71	6.720	6.705	6.732	VV	151161	1898431	6.92%	0.115%	
72	6.751	6.732	6.771	VV	407328	4861398	17.72%	0.294%	
73	6.790	6.771	6.798	VV	120104	1582890	5.77%	0.096%	
74	6.812	6.798	6.840	VV	172727	3003218	10.95%	0.181%	
75	6.877	6.840	6.896	VV	1147696	13616406	49.65%	0.822%	
76	6.908	6.896	6.924	VV	174255	2126053	7.75%	0.128%	
77	6.946	6.924	6.962	VV	170760	2812564	10.25%	0.170%	
78	6.993	6.962	7.015	VV	318675	5829497	21.25%	0.352%	
79	7.035	7.015	7.052	VV	481361	6207242	22.63%	0.375%	
80	7.106	7.052	7.126	VV	1507319	23314602	85.01%	1.408%	
81	7.142	7.126	7.158	VV	191207	2978352	10.86%	0.180%	
82	7.177	7.158	7.217	VV	351374	7545484	27.51%	0.456%	
83	7.239	7.217	7.262	VV	301812	5562234	20.28%	0.336%	
84	7.279	7.262	7.292	VV	116369	1830901	6.68%	0.111%	
85	7.305	7.292	7.317	VV	116545	1528090	5.57%	0.092%	
86	7.331	7.317	7.346	VV	131011	1961460	7.15%	0.118%	
87	7.384	7.346	7.392	VV	1037555	13775831	50.23%	0.832%	
88	7.397	7.392	7.424	VV	902324	10512480	38.33%	0.635%	
89	7.439	7.424	7.455	VV	468081	5916774	21.57%	0.357%	

Instrument :

FID_D

ClientSampleId :

SOILMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

							Instrument : FID_D	
							ClientSampleId : SOILMS	
rteres								
90	7.471	7.455	7.509	VV	288576	6981098	25.45%	0.422%
91	7.520	7.509	7.529	VV	107916	1226513	4.77%	0.161%
92	7.544	7.529	7.550	VV	124145	1477051	5.89%	0.161%
93	7.573	7.550	7.583	VV	598416	7383671	26.45%	0.422%
94	7.593	7.583	7.609	VV	549990	5934357	21.45%	0.422%
95	7.625	7.609	7.645	VV	338910	4762771	17.45%	0.422%
Manual IntegrationsAPPROVED								
96	7.668	7.645	7.683	VV	293493	4050237	14.77%	0.245%
97	7.711	7.683	7.747	VV	973208	14780905	53.89%	0.892%
98	7.761	7.747	7.773	VV	193177	2670680	9.74%	0.161%
99	7.787	7.773	7.807	VV	218291	3947183	14.39%	0.238%
100	7.830	7.807	7.853	VV	321529	7067569	25.77%	0.427%
101	7.871	7.853	7.888	VV	273918	5027873	18.33%	0.304%
102	7.915	7.888	7.937	VV	354391	7346804	26.79%	0.444%
103	7.967	7.937	7.984	VV	324674	6902590	25.17%	0.417%
104	8.007	7.984	8.018	VV	822569	10981547	40.04%	0.663%
105	8.029	8.018	8.055	VV	730198	9371691	34.17%	0.566%
106	8.091	8.055	8.108	VV	594718	12163648	44.35%	0.734%
107	8.114	8.108	8.134	VV	227130	2901284	10.58%	0.175%
108	8.154	8.134	8.164	VV	204401	3187917	11.62%	0.192%
109	8.198	8.164	8.212	VV	663703	13043878	47.56%	0.788%
110	8.225	8.212	8.239	VV	666422	8028882	29.27%	0.485%
111	8.273	8.239	8.302	VV	956912	21738080	79.26%	1.313%
112	8.312	8.302	8.330	VV	391648	5374881	19.60%	0.325%
113	8.349	8.330	8.354	VV	349048	4191025	15.28%	0.253%
114	8.387	8.354	8.405	VV	1381114	22787619	83.08%	1.376%
115	8.435	8.405	8.447	VV	522095	8395915	30.61%	0.507%
116	8.460	8.447	8.475	VV	521266	6701876	24.44%	0.405%
117	8.496	8.475	8.530	VV	759890	14351720	52.33%	0.867%
118	8.579	8.530	8.611	VV	499637	13701196	49.96%	0.827%
119	8.644	8.611	8.654	VV	368158	7006551	25.55%	0.423%
120	8.684	8.654	8.699	VV	1411426	20949777	76.38%	1.265%
121	8.715	8.699	8.741	VV	528290	11510888	41.97%	0.695%
122	8.749	8.741	8.764	VV	412403	5020208	18.30%	0.303%
123	8.802	8.764	8.826	VV	543235	14975522	54.60%	0.904%
124	8.863	8.826	8.892	VV	314438	11067194	40.35%	0.668%
125	8.913	8.892	8.938	VV	696487	12464028	45.44%	0.753%
126	8.950	8.938	8.972	VV	364863	6570329	23.96%	0.397%
127	8.987	8.972	9.004	VV	438148	6563477	23.93%	0.396%
128	9.034	9.004	9.051	VV	392833	8946601	32.62%	0.540%
129	9.093	9.051	9.111	VV	1196265	22497828	82.03%	1.358%
130	9.128	9.111	9.160	VV	724884	13425366	48.95%	0.811%
131	9.188	9.160	9.206	VV	361001	8468752	30.88%	0.511%
132	9.242	9.206	9.258	VV	587430	11856640	43.23%	0.716%
133	9.274	9.258	9.288	VV	553964	7535000	27.47%	0.455%
134	9.294	9.288	9.307	VV	325576	3408773	12.43%	0.206%
135	9.324	9.307	9.341	VV	436711	7194380	26.23%	0.434%
136	9.355	9.341	9.361	VV	370503	4219664	15.39%	0.255%
137	9.381	9.361	9.399	VV	714482	11645041	42.46%	0.703%
138	9.404	9.399	9.416	VV	379078	3808744	13.89%	0.230%
139	9.425	9.416	9.436	VV	348133	4147015	15.12%	0.250%
140	9.470	9.436	9.501	VV	1609198	27426903	100.00%	1.656%
141	9.544	9.501	9.573	VV	714402	19993072	72.90%	1.207%

Instrument :
FID_D

ClientSampleId :
SOILMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Instrument : FID_D ClientSampleId : SOILMS								
					riteres			
142	9.582	9.573	9.588	VV	347061	3154582	11.50%	0.190%
143	9.606	9.588	9.621	VV	382465	6985915	25.42%	0.398%
144	9.641	9.621	9.651	VV	491875	7540946	27.42%	0.799%
145	9.661	9.651	9.680	VV	485931	7254839	26.42%	1.299%
146	9.698	9.680	9.718	VV	411337	8072636	29.42%	0.398%
147	9.744	9.718	9.765	VV	371812	9380061	34.42%	0.799%
148	9.781	9.765	9.794	VV	414461	6597536	24.05%	0.398%
149	9.824	9.794	9.846	VV	508552	13229087	48.23%	0.799%
150	9.871	9.846	9.898	VV	1355741	21513771	78.44%	1.299%
151	9.901	9.898	9.922	VV	320062	4320134	15.75%	0.261%
152	9.940	9.922	9.956	VV	293718	5653352	20.61%	0.341%
153	9.975	9.956	10.014	VV	327728	9690595	35.33%	0.585%
154	10.042	10.014	10.090	VV	477019	14696915	53.59%	0.887%
155	10.102	10.090	10.106	VV	261731	2493612	9.09%	0.151%
156	10.117	10.106	10.123	VV	272260	2621182	9.56%	0.158%
157	10.139	10.123	10.156	VV	324546	5870720	21.40%	0.354%
158	10.201	10.156	10.236	VV	475951	16297041	59.42%	0.984%
159	10.258	10.236	10.286	VV	614414	13137824	47.90%	0.793%
160	10.314	10.286	10.326	VV	510002	9940768	36.24%	0.600%
161	10.338	10.326	10.362	VV	537581	9400955	34.28%	0.568%
162	10.383	10.362	10.431	VV	716865	17221765	62.79%	1.040%
163	10.454	10.431	10.466	VV	424685	7316874	26.68%	0.442%
164	10.476	10.466	10.493	VV	410525	6010925	21.92%	0.363%
165	10.515	10.493	10.546	VV	539384	12819021	46.74%	0.774%
166	10.558	10.546	10.572	VV	343189	5110418	18.63%	0.309%
167	10.611	10.572	10.644	VV	1149361	23996894	87.49%	1.449%
168	10.681	10.644	10.703	VV	701311	16494746	60.14%	0.996%
169	10.724	10.703	10.780	VV	424331	14995488	54.67%	0.905%
170	10.827	10.780	10.839	VV	321400	10041489	36.61%	0.606%
171	10.872	10.839	10.888	VV	1524386	24200805	88.24%	1.461%
172	10.903	10.888	10.914	VV	389339	5556286	20.26%	0.335%
173	10.948	10.914	10.968	VV	1467123	24554204	89.53%	1.483%
174	10.995	10.968	11.030	VV	346597	11485397	41.88%	0.693%
175	11.056	11.030	11.067	VV	329609	6913968	25.21%	0.417%
176	11.078	11.067	11.093	VV	324952	4702346	17.15%	0.284%
177	11.109	11.093	11.143	VV	344729	8716454	31.78%	0.526%
178	11.168	11.143	11.188	VV	401439	8460789	30.85%	0.511%
179	11.218	11.188	11.235	VV	373160	8696463	31.71%	0.525%
180	11.252	11.235	11.278	VV	373972	8443409	30.79%	0.510%
181	11.309	11.278	11.326	VV	1046203	16939231	61.76%	1.023%
182	11.332	11.326	11.363	VV	382388	7152910	26.08%	0.432%
183	11.397	11.363	11.416	VV	498345	11306123	41.22%	0.683%
184	11.426	11.416	11.442	VV	334338	4677492	17.05%	0.282%
185	11.454	11.442	11.475	VV	279547	5375401	19.60%	0.325%
186	11.495	11.475	11.520	VV	315290	7609468	27.74%	0.459%
187	11.537	11.520	11.568	VV	315915	7946852	28.97%	0.480%
188	11.596	11.568	11.601	VV	298674	5173359	18.86%	0.312%
189	11.626	11.601	11.645	VV	821682	13152796	47.96%	0.794%
190	11.658	11.645	11.672	VV	316542	4713352	17.19%	0.285%
191	11.690	11.672	11.720	VV	406823	8888881	32.41%	0.537%
192	11.740	11.720	11.766	VV	335440	8119053	29.60%	0.490%
193	11.782	11.766	11.793	VV	307544	4690329	17.10%	0.283%
194	11.807	11.793	11.823	VV	344291	5436708	19.82%	0.328%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

							Instrument : FID_D ClientSampleId : SOILMS	
rteres							23.91%	0.396%
195	11.843	11.823	11.864	VV	295757	6557148	Manual IntegrationsAPPROVED	
196	11.872	11.864	11.885	VV	244634	2998683	10.62%	0.275%
197	11.905	11.885	11.925	VV	244959	5720260	20.35%	0.625%
198	11.974	11.925	12.004	VV	839302	19504860	71.42%	1.89%
199	12.021	12.004	12.050	VV	376934	8221482	29.34%	0.171%
200	12.056	12.050	12.074	VV	237019	3281512	11.52%	0.787%
201	12.093	12.074	12.110	VV	218105	4558918	16.62%	0.275%
202	12.124	12.110	12.141	VV	207265	3728347	13.59%	0.225%
203	12.153	12.141	12.167	VV	208431	3132949	11.42%	0.189%
204	12.175	12.167	12.191	VV	197542	2836408	10.34%	0.171%
205	12.237	12.191	12.254	VV	575324	13034088	47.52%	0.787%
206	12.269	12.254	12.296	VV	245100	5548307	20.23%	0.335%
207	12.316	12.296	12.320	VV	202862	2838047	10.35%	0.171%
208	12.349	12.320	12.365	VV	239117	5866677	21.39%	0.354%
209	12.384	12.365	12.418	VV	256717	6907115	25.18%	0.417%
210	12.443	12.418	12.452	VV	251260	4355074	15.88%	0.263%
211	12.456	12.452	12.480	VV	242225	3704571	13.51%	0.224%
212	12.490	12.480	12.503	VV	182779	2444943	8.91%	0.148%
213	12.555	12.503	12.576	VV	268417	9284862	33.85%	0.561%
214	12.612	12.576	12.646	VV	784272	15307506	55.81%	0.924%
215	12.686	12.646	12.717	VV	1246241	22100098	80.58%	1.334%
216	12.728	12.717	12.740	VV	164188	2170330	7.91%	0.131%
217	12.752	12.740	12.774	VV	164253	3200924	11.67%	0.193%
218	12.797	12.774	12.818	VV	156582	4032426	14.70%	0.243%
219	12.856	12.818	12.880	VV	178651	5887233	21.47%	0.355%
220	12.898	12.880	12.917	VV	167353	3427858	12.50%	0.207%
221	12.927	12.917	12.941	VV	147506	2055396	7.49%	0.124%
222	12.983	12.941	13.009	VV	1223545	20108279	73.32%	1.214%
223	13.038	13.009	13.070	VV	460279	10053190	36.65%	0.607%
224	13.094	13.070	13.117	VV	486196	8028123	29.27%	0.485%
225	13.125	13.117	13.179	VV	163172	5029311	18.34%	0.304%
226	13.219	13.179	13.248	VV	555854	10352291	37.75%	0.625%
227	13.275	13.248	13.315	VV	247520	7423494	27.07%	0.448%
228	13.324	13.315	13.344	VV	127450	2071592	7.55%	0.125%
229	13.358	13.344	13.371	VV	113478	1712679	6.24%	0.103%
230	13.388	13.371	13.410	VV	120535	2586771	9.43%	0.156%
231	13.449	13.410	13.480	VV	377928	8013838	29.22%	0.484%
232	13.493	13.480	13.535	VV	120426	3553766	12.96%	0.215%
233	13.558	13.535	13.573	VV	105835	2310907	8.43%	0.140%
234	13.589	13.573	13.619	VV	106741	2641922	9.63%	0.160%
235	13.640	13.619	13.676	VV	102330	3128779	11.41%	0.189%
236	13.697	13.676	13.730	VV	110694	3032689	11.06%	0.183%
237	13.735	13.730	13.764	VV	83589	1602861	5.84%	0.097%
238	13.800	13.764	13.842	VV	370919	7320947	26.69%	0.442%
239	13.863	13.842	13.901	VV	90057	2664899	9.72%	0.161%
240	13.910	13.901	13.975	VV	66871	2728188	9.95%	0.165%
241	14.020	13.975	14.075	VV	71698	3711393	13.53%	0.224%
242	14.092	14.075	14.118	VV	63047	1481497	5.40%	0.089%
243	14.132	14.118	14.144	VV	57373	857543	3.13%	0.052%
244	14.161	14.144	14.181	VV	66502	1300512	4.74%	0.079%
245	14.185	14.181	14.199	VV	53198	593611	2.16%	0.036%
246	14.214	14.199	14.246	VV	55521	1455484	5.31%	0.088%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

SOILMS							Manual Integration	
247	14.257	14.246	14.274	VV	49627	805302	2.94%	0.049%
248	14.283	14.274	14.302	VV	47185	773674	2.94%	0.049%
249	14.311	14.302	14.333	VV	45070	807620	2.94%	0.049%
250	14.361	14.333	14.394	VV	156870	2857327	10.00%	0.049%
251	14.417	14.394	14.439	VV	48632	1164472	4.00%	0.049%
252	14.453	14.439	14.467	VV	41372	696976	2.94%	0.049%
253	14.483	14.467	14.509	VV	44564	977523	3.56%	0.059%
254	14.519	14.509	14.536	VV	38775	593025	2.16%	0.036%
255	14.562	14.536	14.596	VV	40890	1333536	4.86%	0.081%
256	14.606	14.596	14.623	VV	33182	524694	1.91%	0.032%
257	14.640	14.623	14.662	VV	35625	746324	2.72%	0.045%
258	14.679	14.662	14.695	VV	31692	592830	2.16%	0.036%
259	14.708	14.695	14.732	VV	30236	623395	2.27%	0.038%
260	14.752	14.732	14.773	VV	29837	678040	2.47%	0.041%
261	14.784	14.773	14.798	VV	24928	359724	1.31%	0.022%
262	14.848	14.798	14.866	VV	810563	13669273	49.84%	0.825%
263	14.895	14.866	14.931	VV	1166607	15124553	55.14%	0.913%
264	14.945	14.931	14.965	VV	21384	417988	1.52%	0.025%
265	14.980	14.965	15.024	VV	20649	661862	2.41%	0.040%
266	15.028	15.024	15.058	VV	16776	336762	1.23%	0.020%
267	15.090	15.058	15.120	VV	18242	626169	2.28%	0.038%
268	15.138	15.120	15.186	VV	17967	595091	2.17%	0.036%
269	15.203	15.186	15.211	VV	13439	198378	0.72%	0.012%
270	15.231	15.211	15.244	VV	14728	269406	0.98%	0.016%
271	15.268	15.244	15.309	VV	38238	852457	3.11%	0.051%
272	15.317	15.309	15.385	VV	12984	522860	1.91%	0.032%
273	15.413	15.385	15.448	VV	32397	691829	2.52%	0.042%
274	15.470	15.448	15.540	VV	18157	610592	2.23%	0.037%
275	15.545	15.540	15.575	VV	7744	150387	0.55%	0.009%
276	15.596	15.575	15.606	VV	8533	146114	0.53%	0.009%
277	15.625	15.606	15.657	VV	12386	292570	1.07%	0.018%
278	15.670	15.657	15.693	VV	8091	160263	0.58%	0.010%
279	15.735	15.693	15.762	VV	7842	270644	0.99%	0.016%
280	15.784	15.762	15.824	VV	6447	218637	0.80%	0.013%
281	15.839	15.824	15.860	VV	5377	108140	0.39%	0.007%
282	15.873	15.860	15.880	VV	4876	57660	0.21%	0.003%
283	15.915	15.880	15.950	VV	93821	1310921	4.78%	0.079%
284	15.974	15.950	15.998	VV	5283	131747	0.48%	0.008%
285	16.005	15.998	16.061	VV	3550	113497	0.41%	0.007%
286	16.110	16.061	16.134	VV	4465	150975	0.55%	0.009%
287	16.140	16.134	16.160	VV	3049	43730	0.16%	0.003%
288	16.167	16.160	16.189	VV	2771	43715	0.16%	0.003%
289	16.226	16.189	16.260	VV	3315	119025	0.43%	0.007%
290	16.283	16.260	16.313	VV	4368	103020	0.38%	0.006%
291	16.325	16.313	16.332	VV	2484	26858	0.10%	0.002%
292	16.399	16.332	16.414	VV	697548	12400657	45.21%	0.749%
293	16.438	16.414	16.467	VV	893436	11867754	43.27%	0.717%
294	16.475	16.467	16.504	VV	5176	71772	0.26%	0.004%
295	16.524	16.504	16.542	VV	2822	48583	0.18%	0.003%
296	16.547	16.542	16.567	VV	1910	25824	0.09%	0.002%
297	16.573	16.567	16.585	VV	1810	18669	0.07%	0.001%
298	16.632	16.585	16.671	VV	4953	128026	0.47%	0.008%
299	16.694	16.671	16.722	VV	2140	49443	0.18%	0.003%

Client Sample ID					Area (m ²)		SOILMS	
Plot No	Area (m ²)	Area (m ²)	Area (m ²)	Area (m ²)	Area (m ²)	Area (m ²)	Area (m ²)	Area (m ²)
300	16.781	16.722	16.808	VV	752060	11662958	42.52%	0.704%
301	16.860	16.808	16.890	VV	80436	1124160	4.00%	0.000%
302	16.911	16.890	16.960	VV	8745	162700	0.00%	0.000%
303	16.986	16.960	16.999	VV	945	19173	0.00%	0.000%
304	17.015	16.999	17.067	VV	1069	26304	0.00%	0.000%
305	17.070	17.067	17.078	VV	450	2461	0.00%	0.000%
306	17.103	17.078	17.122	VV	904	16533	0.00%	0.001%
307	17.155	17.122	17.173	VV	798	20265	0.00%	0.001%
308	17.220	17.173	17.264	VV	3526	72708	0.00%	0.004%
309	17.266	17.264	17.271	VV	596	2407	0.00%	0.000%
310	17.278	17.271	17.285	VV	742	5485	0.00%	0.000%
311	17.308	17.285	17.344	VV	2641	40771	0.00%	0.002%
312	17.350	17.344	17.361	VV	249	1178	0.00%	0.000%
313	17.373	17.361	17.390	VV	589	6776	0.00%	0.000%
314	17.424	17.390	17.427	VV	706	11452	0.00%	0.001%
315	17.431	17.427	17.454	VV	771	9350	0.00%	0.001%
316	17.479	17.454	17.509	VV	1160	16509	0.00%	0.001%
317	17.538	17.509	17.544	PV	999	14243	0.00%	0.001%
318	17.562	17.544	17.582	VV	3032	42953	0.00%	0.003%
319	17.612	17.582	17.632	VV	1431	32124	0.00%	0.002%
320	17.637	17.632	17.650	VV	785	6514	0.00%	0.000%
321	17.670	17.650	17.690	VV	1620	26557	0.00%	0.002%
322	17.708	17.690	17.717	VV	1994	25807	0.00%	0.002%
323	17.748	17.717	17.787	VV	73320	981220	3.58%	0.059%
324	17.792	17.787	17.805	VV	451	3103	0.00%	0.000%
325	17.833	17.805	17.857	VV	1444	23921	0.00%	0.001%
326	17.893	17.857	17.922	VV	848	24098	0.00%	0.001%
327	17.957	17.922	17.978	VV	933	25092	0.00%	0.002%
328	18.005	17.995	18.024	VV	575	7947	0.00%	0.000%
329	18.031	18.024	18.044	VV	507	4906	0.00%	0.000%
330	18.148	18.044	18.162	VV	665487	12430034	45.32%	0.751%
331	18.187	18.162	18.233	VV	759434	10863920	39.61%	0.656%
332	18.263	18.233	18.280	VV	1715	33536	0.12%	0.002%
333	18.296	18.280	18.340	VV	1652	37921	0.14%	0.002%
334	18.408	18.340	18.472	PV	678230	11424193	41.65%	0.690%
Sum of corrected areas:					1656162839			

Report of Analysis

Client:	Ronald Adams		Date Collected:		
Project:	19 Ashlynn Court		Date Received:		
Client Sample ID:	SOILMSD		SDG No.:	Q3301	
Lab Sample ID:	Q3301-01MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	81	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 11:25	10/08/25 14:25	PB170011

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	273	E	1	0.17	1.23	mg/kg	FC069966.D
Aliphatic C12-C16	Aliphatic C12-C16	962	E	1	0.14	0.82	mg/kg	FC069966.D
Aliphatic C16-C21	Aliphatic C16-C21	997	E	1	0.16	1.23	mg/kg	FC069966.D
Aliphatic C21-C28	Aliphatic C21-C28	191	E	1	0.65	1.64	mg/kg	FC069966.D
Aliphatic C28-C40	Aliphatic C28-C40	56.0	E	1	1.45	2.47	mg/kg	FC069966.D
Aromatic C10-C12	Aromatic C10-C12	51.0	E	1	0.15	0.82	mg/kg	FD049835.D
Aromatic C12-C16	Aromatic C12-C16	246	E	1	0.28	1.23	mg/kg	FD049835.D
Aromatic C16-C21	Aromatic C16-C21	530	E	1	0.49	2.05	mg/kg	FD049835.D
Aromatic C21-C36	Aromatic C21-C36	137	E	1	1.47	3.29	mg/kg	FD049835.D
Total AliphaticEPH	Total AliphaticEPH	2480			2.57	7.39	mg/kg	
Total AromaticEPH	Total AromaticEPH	964			2.40	7.39	mg/kg	
Total EPH	Total EPH	3440			4.97	14.8	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	SOILMSD	SDG No.:	Q3301
Lab Sample ID:	Q3301-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069966.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	273	E	0.17	1.23	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	962	E	0.14	0.82	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	997	E	0.16	1.23	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	191	E	0.65	1.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	56.0	E	1.45	2.47	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	55.9		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3301-01MSD	Acq On:	08 Oct 2025 14:25
Client Sample ID:	SOILMSD	Operator:	YP/AJ
Data file:	FC069966.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.578	482063277	3330	300	ug/ml
Aliphatic C12-C16	6.579	9.979	1917658883	11800	200	ug/ml
Aliphatic C16-C21	9.980	13.346	1965363806	12100	300	ug/ml
Aliphatic C21-C28	13.347	17.010	342902043	2330	400	ug/ml
Aliphatic C28-C40	17.011	21.966	73354443	681.734	600	ug/ml
Aliphatic EPH	3.284	21.966	4781342452	30200		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.104	13.104	7583677	55.87		ug/ml
Aliphatic C9-C28	3.284	17.010	4707988009	29500	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
 Data File : FC069966.D
 Signal(s) : FID1A.ch
 Acq On : 08 Oct 2025 14:25
 Operator : YP/AJ
 Sample : Q3301-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 SOILMSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/09/2025
 Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
 Quant Time: Oct 09 05:51:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.104	7583677	55.868 ug/mlm
Spiked Amount 50.000		Recovery =	111.74%
Target Compounds			
1) T n-Nonane (C9)	3.385	5715378	41.622 ug/mlm
2) T n-Decane (C10)	4.463	16911518	117.636 ug/ml
4) T n-Dodecane (C12)	6.506	51937864	338.851 ug/ml
6) T n-Tetradecane (C14)	8.326f	80500617	506.154 ug/mlm
7) T n-Hexadecane (C16)	9.940f	95588031	567.217 ug/mlm
8) T n-Octadecane (C18)	11.382f	77161691	453.547 ug/mlm
10) T n-Eicosane (C20)	12.681	56054227	349.392 ug/mlm
11) T n-Heneicosane (C21)	13.286	41798262	269.191 ug/mlm
13) T n-Docosane (C22)	13.863	31618639	205.455 ug/ml
14) T n-Tetracosane (C24)	14.951	14034905	92.560 ug/ml
15) T n-Hexacosane (C26)	15.967	9046272	62.500 ug/ml
16) T n-Octacosane (C28)	16.916	7934359	57.369 ug/ml
17) T n-Tricontane (C30)	17.803	7394938	54.162 ug/ml
18) T n-Dotriacontane (C32)	18.636	7010237	54.371 ug/ml
19) T n-Tetratriacontane (C34)	19.419	6809166	59.677 ug/ml
20) T n-Hexatriacontane (C36)	20.160	6339800	65.554 ug/ml
21) T n-Octatriacontane (C38)	20.918	6080766	69.767 ug/ml
22) T n-Tetracontane (C40)	21.872	5881872	71.588 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100925AL\
Data File : FC069966.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 14:25
Operator : YP/AJ
Sample : Q3301-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

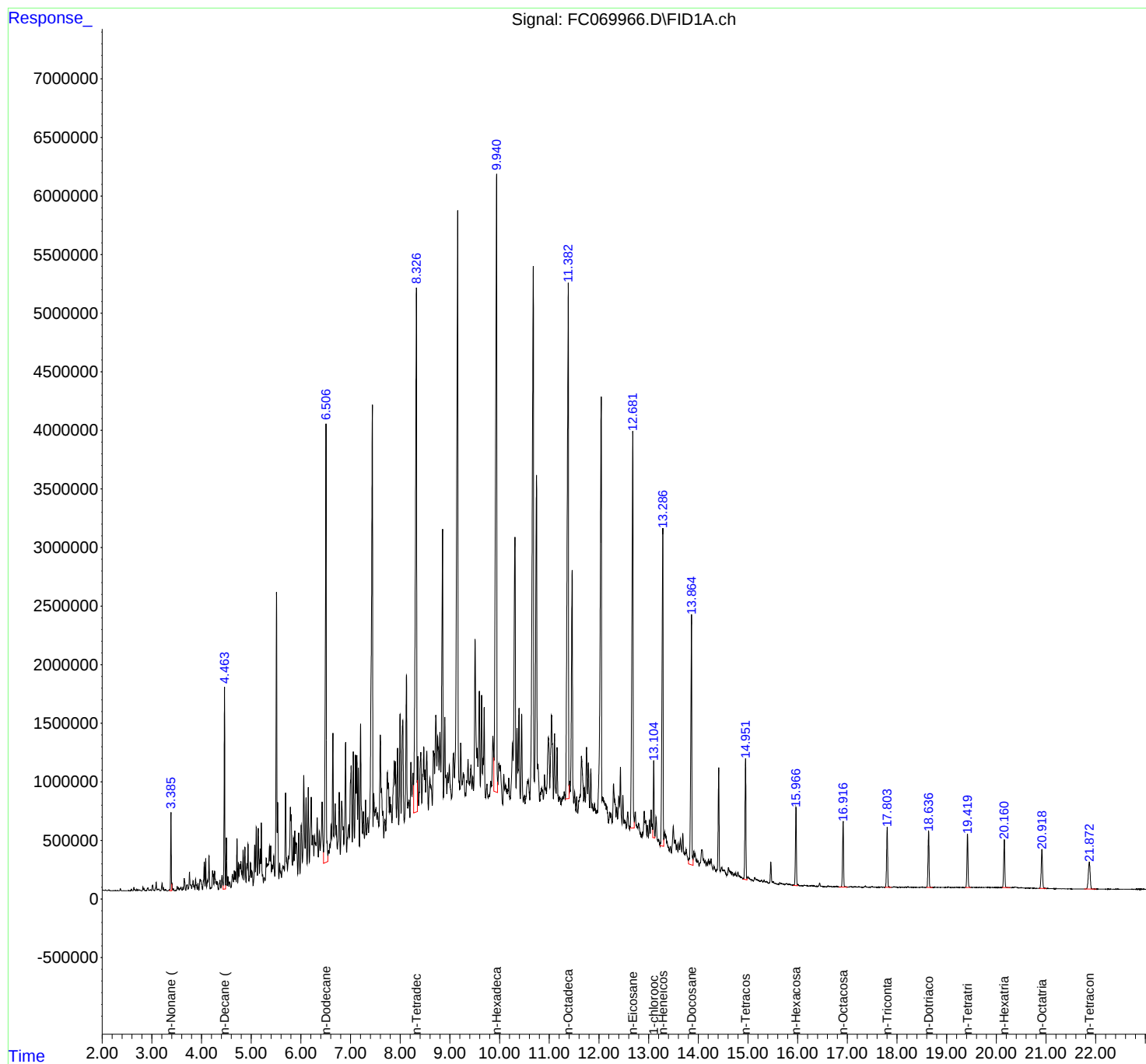
Instrument :
FID_C
ClientSampleId :
SOILMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 05:51:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_C

ClientSampleId :

SOILMSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10092
Data File : FC069966.D
Signal(s) : FID1A.ch
Acq On : 08 Oct 2025 14:25
Sample : Q3301-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.231	3.204	3.249	BV	3812	-167564	-0.10%	-0.004%
2	3.278	3.249	3.310	PV	12325	155225	0.09%	0.003%
3	3.385	3.310	3.468	PV	664249	6578929	3.90%	0.138%
4	3.512	3.468	3.551	VV	37760	731002	0.43%	0.015%
5	3.587	3.551	3.614	VV	33544	659336	0.39%	0.014%
6	3.655	3.614	3.684	VV	99857	1782279	1.06%	0.037%
7	3.709	3.684	3.733	VV	48350	954448	0.57%	0.020%
8	3.759	3.733	3.801	VV	155418	2452695	1.45%	0.051%
9	3.830	3.801	3.868	VV	86803	1812759	1.08%	0.038%
10	3.974	3.946	4.021	VV	94894	2593956	1.54%	0.054%
11	4.084	4.021	4.105	VV	274488	5933864	3.52%	0.124%
12	4.151	4.105	4.195	VV	300024	4799821	2.85%	0.100%
13	4.226	4.195	4.249	VV	153018	3010021	1.79%	0.063%
14	4.370	4.340	4.390	VV	89995	1464692	0.87%	0.031%
15	4.413	4.390	4.434	VV	128443	1949454	1.16%	0.041%
16	4.462	4.434	4.484	VV	1681167	17357889	10.30%	0.363%
17	4.501	4.484	4.551	VV	453415	5906455	3.50%	0.124%
18	4.567	4.551	4.592	VV	69866	1323860	0.79%	0.028%
19	4.623	4.592	4.644	VV	139273	2835365	1.68%	0.059%
20	4.714	4.644	4.754	VV	447368	11043143	6.55%	0.231%
21	4.790	4.754	4.821	VV	250416	7417643	4.40%	0.155%
22	4.837	4.821	4.853	VV	347146	4135038	2.45%	0.086%
23	4.873	4.853	4.896	VV	374655	5390770	3.20%	0.113%
24	4.935	4.896	4.958	VV	395656	7597591	4.51%	0.159%
25	5.102	5.040	5.123	VV	544816	12740636	7.56%	0.266%
26	5.142	5.123	5.168	VV	526224	7965225	4.73%	0.167%
27	5.203	5.168	5.277	VV	582750	13766006	8.17%	0.288%
28	5.391	5.277	5.433	VV	383337	22112106	13.12%	0.462%
29	5.452	5.433	5.473	VV	295740	5115799	3.03%	0.107%
30	5.508	5.473	5.558	VV	2510060	39757077	23.58%	0.832%
31	5.574	5.558	5.609	VV	233017	5077202	3.01%	0.106%
32	5.639	5.609	5.668	VV	207990	6465973	3.84%	0.135%
33	5.692	5.668	5.731	VV	830210	14898252	8.84%	0.312%
34	5.792	5.731	5.831	VV	678952	23882384	14.17%	0.499%
35	5.878	5.831	5.937	VV	506034	22055035	13.08%	0.461%
36	5.958	5.937	5.982	VV	488702	8399334	4.98%	0.176%

				rteres			
37	6.007	5.982	6.031	VV	556470	10753103	6.38% 0.225%
38	6.059	6.031	6.084	VV	977831	17918527	10.75% 0.414%
39	6.104	6.084	6.125	VV	794751	12135949	29.08% 1.025%
40	6.149	6.125	6.172	VV	878952	13892896	17.34% 0.611%
41	6.208	6.172	6.261	VV	798207	26199573	7.03% 0.248%
42	6.278	6.261	6.308	VV	458491	11288367	5.59% 0.197%
43	6.328	6.308	6.352	VV	622765	11855265	11.44% 0.403%
44	6.372	6.352	6.391	VV	503650	9424943	
45	6.427	6.391	6.456	VV	758424	19283235	
46	6.504	6.456	6.568	VV	3860346	69345380	41.14% 1.450%
47	6.644	6.568	6.668	VV	1342523	35718166	21.19% 0.747%
48	6.690	6.668	6.734	VV	744330	21639501	12.84% 0.453%
49	6.772	6.734	6.794	VV	830301	19016484	11.28% 0.398%
50	6.824	6.794	6.866	VV	758720	23921258	14.19% 0.500%
51	6.900	6.866	6.924	VV	1283056	24055480	14.27% 0.503%
52	7.056	7.035	7.079	VV	1179364	19815770	11.75% 0.414%
53	7.102	7.079	7.179	VV	1146890	49025903	29.08% 1.025%
54	7.202	7.179	7.240	VV	1410089	29232748	17.34% 0.611%
55	7.257	7.240	7.280	VV	672923	13177452	7.82% 0.276%
56	7.303	7.280	7.324	VV	770356	15553451	9.23% 0.325%
57	7.345	7.324	7.364	VV	617109	13143564	7.80% 0.275%
58	7.436	7.364	7.488	VV	3918048	103801341	61.58% 2.171%
59	7.510	7.488	7.571	VV	702875	32015708	18.99% 0.670%
60	7.600	7.571	7.671	VV	1312963	47990686	28.47% 1.004%
61	7.691	7.671	7.708	VV	601888	12615900	7.48% 0.264%
62	7.742	7.708	7.833	VV	1001823	56754385	33.67% 1.187%
63	7.880	7.833	7.924	VV	1108267	48234007	28.61% 1.009%
64	7.947	7.924	7.969	VV	1218974	23429629	13.90% 0.490%
65	7.996	7.969	8.018	VV	1500337	28522584	16.92% 0.597%
66	8.048	8.018	8.083	VV	1432927	39273994	23.30% 0.821%
67	8.124	8.083	8.153	VV	1839749	42659968	25.31% 0.892%
68	8.174	8.153	8.193	VV	770312	17410073	10.33% 0.364%
69	8.215	8.193	8.236	VV	1086806	22348472	13.26% 0.467%
70	8.321	8.236	8.374	VV	4861085	145801106	86.49% 3.049%
71	8.410	8.374	8.434	VV	1152261	34842889	20.67% 0.729%
72	8.473	8.434	8.512	VV	1226856	45697607	27.11% 0.956%
73	8.533	8.512	8.566	VV	1189107	31202700	18.51% 0.653%
74	8.596	8.566	8.643	VV	961709	39512132	23.44% 0.826%
75	8.673	8.643	8.691	VV	1164134	29444165	17.47% 0.616%
76	8.717	8.691	8.738	VV	1487960	35775459	21.22% 0.748%
77	8.755	8.738	8.780	VV	1302184	30295553	17.97% 0.634%
78	8.798	8.780	8.816	VV	1349115	25401222	15.07% 0.531%
79	8.850	8.816	8.874	VV	3100957	61034941	36.21% 1.277%
80	8.896	8.874	8.938	VV	1477795	40746163	24.17% 0.852%
81	8.988	8.938	9.038	VV	1067621	54834948	32.53% 1.147%
82	9.071	9.038	9.091	VV	1168354	32621919	19.35% 0.682%
83	9.218	9.198	9.247	VV	1255264	30693033	18.21% 0.642%
84	9.272	9.247	9.321	VV	993543	40252841	23.88% 0.842%
85	9.365	9.321	9.398	VV	1117598	43691172	25.92% 0.914%
86	9.421	9.398	9.443	VV	1047043	26108667	15.49% 0.546%
87	9.458	9.443	9.475	VV	967211	17528097	10.40% 0.367%
88	9.508	9.475	9.563	VV	2130954	71540376	42.44% 1.496%
89	9.591	9.563	9.613	VV	1701037	38843948	23.04% 0.812%

Instrument :

FID_C

ClientSampleId :

SOILMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

							Instrument : FID_C	
							ClientSampleId : SOILMSD	
rteres								
90	9.638	9.613	9.658	VV	1659566	33397489	19.81%	0.698%
Manual IntegrationsAPPROVED								
91	9.689	9.658	9.719	VV	1549119	41002442	24.00%	0.698%
92	9.744	9.719	9.778	VV	901740	29208152	17.00%	0.698%
93	9.868	9.778	9.888	VV	1301962	64743771	38.00%	0.698%
94	9.935	9.888	9.965	VV	5650250	134081567	79.00%	0.698%
95	9.990	9.965	10.061	VV	1082910	55279005	32.00%	0.698%
96	10.086	10.061	10.150	VV	988146	46366422	27.51%	0.970%
97	10.185	10.150	10.211	VV	959381	31580472	18.73%	0.660%
98	10.307	10.211	10.334	VV	2970715	106550987	63.21%	2.228%
99	10.352	10.334	10.369	VV	1378815	24009722	14.24%	0.502%
100	10.391	10.369	10.417	VV	1552394	33065827	19.61%	0.692%
101	10.444	10.417	10.478	VV	1507436	37522790	22.26%	0.785%
102	10.494	10.478	10.514	VV	804221	17039324	10.11%	0.356%
103	10.574	10.514	10.607	VV	944247	47705684	28.30%	0.998%
104	10.674	10.607	10.701	VV	5066710	128635627	76.31%	2.690%
105	10.741	10.701	10.808	VV	3484325	99609136	59.09%	2.083%
106	10.846	10.808	10.881	VV	860332	36654681	21.74%	0.767%
107	10.906	10.881	10.944	VV	979054	33039729	19.60%	0.691%
108	10.983	10.944	11.011	VV	1289397	43739919	25.95%	0.915%
109	11.047	11.011	11.085	VV	1490036	51349334	30.46%	1.074%
110	11.106	11.085	11.138	VV	1345321	32064564	19.02%	0.671%
111	11.158	11.138	11.191	VV	1215985	29862432	17.71%	0.625%
112	11.209	11.191	11.236	VV	787329	20740744	12.30%	0.434%
113	11.378	11.320	11.419	VV	4806716	124985769	74.14%	2.614%
114	11.459	11.419	11.498	VV	2682638	65976558	39.14%	1.380%
115	11.511	11.498	11.533	VV	837304	16533877	9.81%	0.346%
116	11.551	11.533	11.574	VV	796583	17691073	10.49%	0.370%
117	11.651	11.574	11.725	VV	1116177	77503578	45.98%	1.621%
118	11.751	11.725	11.772	VV	1203334	27722840	16.45%	0.580%
119	11.787	11.772	11.813	VV	1082050	22223117	13.18%	0.465%
120	11.836	11.813	11.888	VV	1036231	35299820	20.94%	0.738%
121	11.909	11.888	11.942	VV	728104	22369431	13.27%	0.468%
122	12.042	11.942	12.193	VV	4099508	168574387	100.00%	3.526%
123	12.220	12.193	12.268	VV	660397	27756155	16.47%	0.581%
124	12.295	12.268	12.376	VV	900894	46863465	27.80%	0.980%
125	12.432	12.376	12.464	VV	1041819	39714542	23.56%	0.831%
126	12.482	12.464	12.553	VV	805953	32965493	19.56%	0.689%
127	12.579	12.553	12.618	VV	664804	22467168	13.33%	0.470%
128	12.678	12.618	12.712	VV	3804115	85999282	51.02%	1.799%
129	12.730	12.712	12.781	VV	658771	24133036	14.32%	0.505%
130	12.799	12.781	12.858	VV	561725	23465113	13.92%	0.491%
131	12.912	12.858	12.962	VV	670349	34360231	20.38%	0.719%
132	12.977	12.962	12.994	VV	549202	9774694	5.80%	0.204%
133	13.051	12.994	13.081	VV	680052	28698426	17.02%	0.600%
134	13.103	13.081	13.128	VV	1114651	20303043	12.04%	0.425%
135	13.151	13.128	13.230	VV	618015	28373539	16.83%	0.593%
136	13.283	13.230	13.417	VV	3017244	86792770	51.49%	1.815%
137	13.437	13.417	13.458	VV	369478	8542888	5.07%	0.179%
138	13.497	13.458	13.590	VV	544433	32152135	19.07%	0.672%
139	13.642	13.590	13.667	VV	433588	17241100	10.23%	0.361%
140	13.689	13.667	13.734	VV	477563	14555292	8.63%	0.304%
141	13.755	13.734	13.801	VV	344853	11980982	7.11%	0.251%

				rteres				
142	13.861	13.801	13.894	VV	2290269	43699460	25.92%	0.914%
143	13.911	13.894	14.017	VV	330737	19457643	11.74%	0.414%
144	14.075	14.017	14.158	VV	340555	22004409	13.41%	0.120%
145	14.174	14.158	14.188	VV	236206	4031266	2.41%	0.120%
146	14.207	14.188	14.224	VV	260366	5128077	3.41%	0.120%
147	14.257	14.224	14.301	VV	266893	10139664	6.93%	0.244%
148	14.315	14.301	14.354	VV	197211	5754145	1.41%	0.050%
149	14.410	14.354	14.444	VV	1045262	19789199	11.74%	0.414%
150	14.473	14.444	14.574	VV	191221	12625351	7.49%	0.264%
151	14.609	14.574	14.704	VV	186364	11690330	6.93%	0.244%
152	14.720	14.704	14.735	VV	137722	2378958	1.41%	0.050%
153	14.752	14.735	14.778	VV	145118	3286405	1.95%	0.069%
154	14.798	14.778	14.898	VV	152207	8330652	4.94%	0.174%
155	14.950	14.898	14.981	VV	1126915	18434996	10.94%	0.386%
156	14.999	14.981	15.107	VV	114198	6939079	4.12%	0.145%
157	15.137	15.107	15.241	VV	102845	6805395	4.04%	0.142%
158	15.273	15.241	15.302	VV	80313	2729594	1.62%	0.057%
159	15.325	15.302	15.367	VV	82329	2769041	1.64%	0.058%
160	15.376	15.367	15.418	VV	68399	1938190	1.15%	0.041%
161	15.460	15.418	15.611	VV	234261	8755973	5.19%	0.183%
162	15.642	15.611	15.740	VV	59199	3876317	2.30%	0.081%
163	15.777	15.740	15.811	VV	51518	2048819	1.22%	0.043%
164	15.836	15.811	15.924	VV	47173	2827497	1.68%	0.059%
165	15.966	15.924	16.101	VV	688332	12757601	7.57%	0.267%
166	16.134	16.101	16.227	VV	38276	2539075	1.51%	0.053%
167	16.273	16.227	16.304	VV	34935	1516278	0.90%	0.032%
168	16.318	16.304	16.405	VV	34032	1785465	1.06%	0.037%
169	16.561	16.558	16.581	VV	24800	339604	0.20%	0.007%
170	16.606	16.581	16.634	VV	29940	872726	0.52%	0.018%
171	16.659	16.634	16.704	VV	27254	1089213	0.65%	0.023%
172	16.745	16.704	16.854	VV	27163	2198609	1.30%	0.046%
173	16.915	16.854	17.004	VV	582422	9890615	5.87%	0.207%
174	17.146	17.108	17.188	VV	23277	1075887	0.64%	0.023%
175	17.230	17.188	17.324	VV	22694	1723076	1.02%	0.036%
176	17.360	17.324	17.441	VV	29519	1545075	0.92%	0.032%
177	17.494	17.441	17.557	VV	23861	1476382	0.88%	0.031%
178	17.573	17.557	17.593	VV	20649	427417	0.25%	0.009%
179	17.690	17.593	17.753	VV	22628	1945156	1.15%	0.041%
180	17.803	17.753	17.894	VV	526152	8988276	5.33%	0.188%
181	17.944	17.894	18.044	VV	22138	1774682	1.05%	0.037%
182	18.286	18.268	18.300	VV	18584	344360	0.20%	0.007%
183	18.352	18.300	18.394	VV	20081	1043942	0.62%	0.022%
184	18.408	18.394	18.451	VV	17989	591557	0.35%	0.012%
185	18.510	18.451	18.571	VV	19220	1278240	0.76%	0.027%
186	18.636	18.571	18.724	VV	496775	8575768	5.09%	0.179%
187	18.750	18.724	18.881	VV	19065	1640544	0.97%	0.034%
188	18.918	18.881	18.977	VV	17579	967842	0.57%	0.020%
189	19.148	19.114	19.168	VV	17660	534223	0.32%	0.011%
190	19.221	19.168	19.255	VV	17413	878280	0.52%	0.018%
191	19.274	19.255	19.370	VV	17240	1098501	0.65%	0.023%
192	19.419	19.370	19.511	VV	478211	8116559	4.81%	0.170%
193	19.526	19.511	19.598	VV	17415	846557	0.50%	0.018%
194	19.612	19.598	19.648	VV	16047	472307	0.28%	0.010%

Instrument :

FID_C

ClientSampleId :

SOILMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

					rters		
195	19.683	19.648	19.764	VV	16211	1098129	
196	19.901	19.874	19.983	VV	15864	964589	
197	20.011	19.983	20.030	VV	15218	409250	
198	20.049	20.030	20.070	VV	15504	350781	
199	20.089	20.070	20.101	VV	14825	268155	
200	20.160	20.101	20.234	VV	429934	7459270	
201	20.256	20.234	20.282	VV	14968	415530	0.25% 0.009%
202	20.381	20.282	20.486	VV	18176	1816152	1.08% 0.038%
203	20.612	20.593	20.748	VV	10566	888709	0.53% 0.019%
204	20.759	20.748	20.868	VV	8766	555361	0.33% 0.012%
205	20.917	20.868	21.171	VV	342206	7140319	4.24% 0.149%
206	21.188	21.171	21.281	VV	4429	258058	0.15% 0.005%
207	21.358	21.314	21.444	VV	3587	228402	0.14% 0.005%
208	21.467	21.444	21.611	VV	2261	187080	0.11% 0.004%
209	21.640	21.611	21.786	VV	1589	107510	0.06% 0.002%
210	21.871	21.786	22.001	VBA	231328	5862517	3.48% 0.123%

Sum of corrected areas: 4781330114

Aliphatic EPH 100725.M Thu Oct 09 06:22:00 2025

Instrument :
FID_C
ClientSampleId :
SOILMSD
0.65% 0.023%

Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Report of Analysis

Client:	Ronald Adams	Date Collected:	
Project:	19 Ashlynn Court	Date Received:	
Client Sample ID:	SOILMSD	SDG No.:	Q3301
Lab Sample ID:	Q3301-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049835.D	1	10/07/25	10/08/25	PB170011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	51.0	E	0.15	0.82	mg/kg
Aromatic C12-C16	Aromatic C12-C16	246	E	0.28	1.23	mg/kg
Aromatic C16-C21	Aromatic C16-C21	530	E	0.49	2.05	mg/kg
Aromatic C21-C36	Aromatic C21-C36	137	E	1.47	3.29	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	90.1		40 - 140	180%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	71.8		40 - 140	144%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.6		40 - 140	93%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3301-01MSD	Acq On:	08 Oct 2025 13:43
Client Sample ID:	SOILMSD	Operator:	YP/AJ
Data file:	FD049835.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.394	6.137	76121189	619.933	200	ug/ml
Aromatic C12-C16	6.138	8.765	430066661	3000	300	ug/ml
Aromatic C16-C21	8.766	13.056	916740231	6450	500	ug/ml
Aromatic C21-C36	13.057	18.475	207669146	1680	800	ug/ml
Aromatic EPH	4.394	18.475	1630597227	11700		ug/ml
2-Bromonaphthalene (SURRE)	7.710	7.710	10703059	90.08		ug/ml
2-Fluorobiphenyl (SURRE)	8.579	8.579	6091737	71.75		ug/ml
ortho-Terphenyl (SURRE)	11.625	11.625	6956160	46.6		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
 Data File : FD049835.D
 Signal(s) : FID2B.ch
 Acq On : 08 Oct 2025 13:43
 Operator : YP/AJ
 Sample : Q3301-01MSD
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :

FID_D

ClientSampleId :

SOILMSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E

Quant Time: Oct 09 06:29:02 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M

Quant Title : GC Extractables

QLast Update : Thu Oct 02 17:50:17 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 µl

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.710	10703059	90.082 ug/mlm
Spiked Amount 50.000		Recovery =	180.16%
6) S 2-Fluorobiphenyl (SURR)	8.579	6091737	71.752 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery =	143.50%#
11) S ortho-Terphenyl (SURR)	11.625	6956160	46.597 ug/mlm
Spiked Amount 50.000		Recovery =	93.19%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.494	5160258	45.408 ug/ml
2) T Naphthalene (C11.7)	6.040	8977937	68.048 ug/ml
3) T 2-Methylnaphthalene (...)	7.105	18902246	136.614 ug/mlm
5) T Acenaphthylene (C15.06)	8.387	18513751	126.717 ug/mlm
7) T Acenaphthene (C15.5)	8.684	16012559	109.968 ug/mlm
8) T Flouorene (C16.55)	9.470	17517612	119.953 ug/mlm
9) T Phenanthrene (C19.36)	10.871	16606916	113.605 ug/mlm
10) T Anthracene (C19.43)	10.948	16003603	117.766 ug/mlm
12) T Fluoranthene (C21.85)	12.686	15179344	106.548 ug/mlm
13) T Pyrene (C20.8)	12.983	14476290	102.979 ug/mlm
14) T Benzo[a]anthracene (C...	14.848	12634639	100.460 ug/mlm
15) T Chrysene (C27.41)	14.895	13994952	108.935 ug/mlm
16) T benzo[b]fluoranthene ...	16.399	12267499	98.481 ug/ml
17) T Bnezo[k]fluoranthene ...	16.438	12074592	102.793 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.780	11510780	94.849 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.149	11795400	104.905 ug/mlm
20) T Dibenz[a,h]anthracene...	18.187	10719714	87.681 ug/mlm
21) T Benzo[g,h,i]perylene ...	18.408	11358658	94.968 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100825AR\
Data File : FD049835.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 13:43
Operator : YP/AJ
Sample : Q3301-01MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

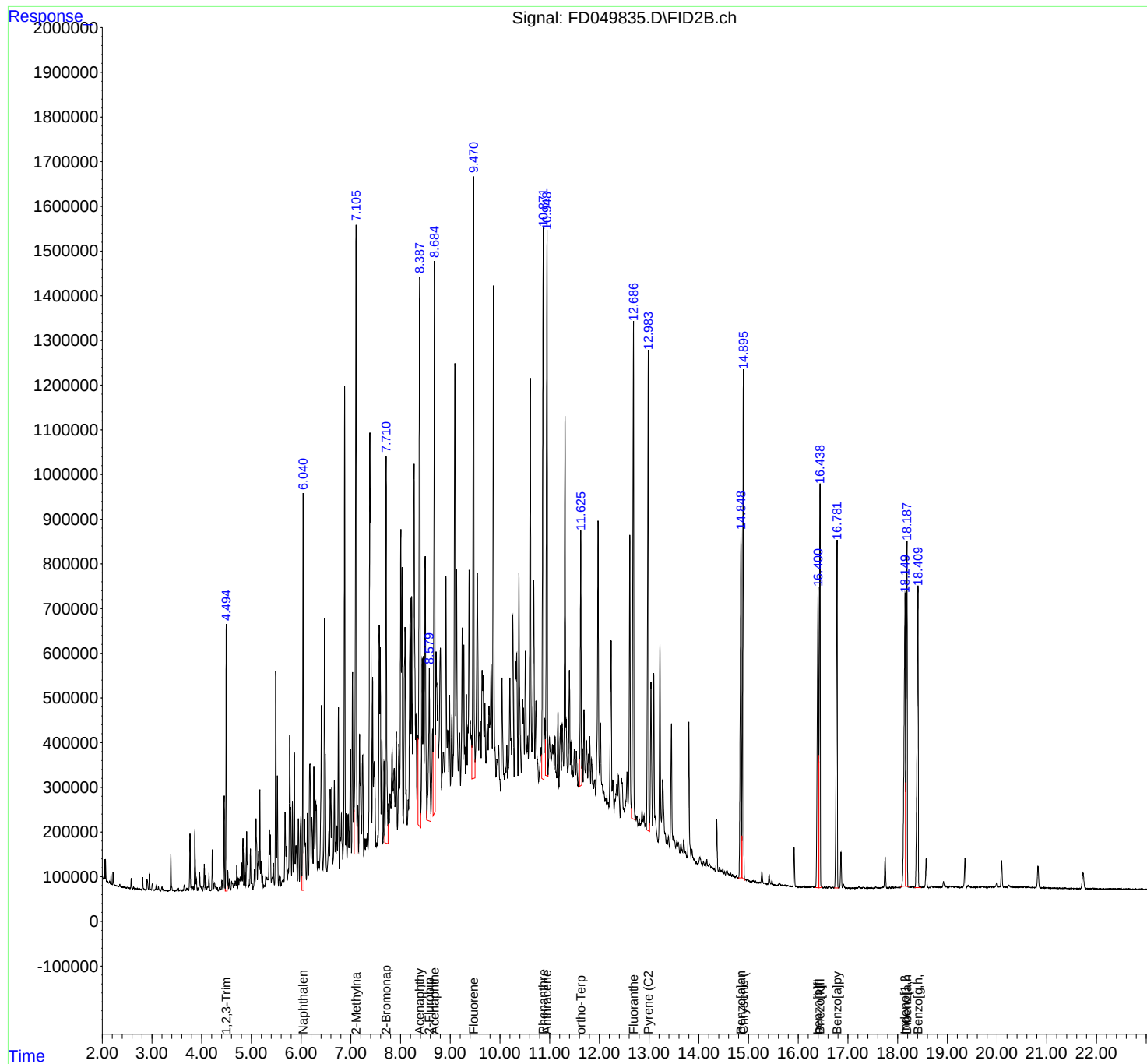
Instrument :
FID_D
ClientSampleId :
SOILMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/09/2025
Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E
Quant Time: Oct 09 06:29:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Quant Title : GC Extractables
QLast Update : Thu Oct 02 17:50:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Instrument :

FID_D

ClientSampleId :

SOILMSD

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10082
Data File : FD049835.D
Signal(s) : FID2B.ch
Acq On : 08 Oct 2025 13:43
Sample : Q3301-01MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 100225.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.259	4.252	4.285	PH	13344	125790	0.46%	0.008%
2	4.294	4.285	4.306	PV	3699	28310	0.10%	0.002%
3	4.316	4.306	4.332	VV	6020	43716	0.16%	0.003%
4	4.369	4.332	4.389	PV	10205	171029	0.63%	0.010%
5	4.408	4.389	4.430	VV	24158	278767	1.02%	0.017%
6	4.453	4.430	4.473	VV	212872	1967616	7.23%	0.120%
7	4.494	4.473	4.513	VV	596624	5155797	18.95%	0.314%
8	4.525	4.513	4.542	VV	47126	444964	1.64%	0.027%
9	4.556	4.542	4.583	VV	27736	308579	1.13%	0.019%
10	4.603	4.583	4.612	VV	22047	233187	0.86%	0.014%
11	4.618	4.612	4.638	VV	18439	225383	0.83%	0.014%
12	4.654	4.638	4.665	VV	19439	226905	0.83%	0.014%
13	4.678	4.665	4.692	VV	22377	279781	1.03%	0.017%
14	4.707	4.692	4.723	VV	57009	554657	2.04%	0.034%
15	4.736	4.723	4.747	VV	28889	279806	1.03%	0.017%
16	4.763	4.747	4.772	VV	26072	329088	1.21%	0.020%
17	4.784	4.772	4.792	VV	31782	320147	1.18%	0.019%
18	4.804	4.792	4.816	VV	63355	616484	2.27%	0.037%
19	4.830	4.816	4.847	VV	118088	1135873	4.18%	0.069%
20	4.868	4.847	4.888	VV	85799	1070784	3.94%	0.065%
21	4.905	4.888	4.945	VV	133517	1993917	7.33%	0.121%
22	4.981	4.945	4.998	VV	94432	1110443	4.08%	0.068%
23	5.007	4.998	5.031	VV	18608	283926	1.04%	0.017%
24	5.062	5.031	5.074	VV	48224	569028	2.09%	0.035%
25	5.093	5.074	5.120	VV	161433	2481556	9.12%	0.151%
26	5.146	5.120	5.156	VV	89016	1302885	4.79%	0.079%
27	5.169	5.156	5.184	VV	226998	2161945	7.95%	0.131%
28	5.194	5.184	5.212	VV	67573	740461	2.72%	0.045%
29	5.223	5.212	5.239	VV	33540	348255	1.28%	0.021%
30	5.252	5.239	5.269	VV	12312	190225	0.70%	0.012%
31	5.291	5.269	5.302	VV	34543	464058	1.71%	0.028%
32	5.312	5.302	5.335	VV	30371	530989	1.95%	0.032%
33	5.361	5.335	5.372	VV	137635	1662180	6.11%	0.101%
34	5.381	5.372	5.400	VV	125676	1286145	4.73%	0.078%
35	5.440	5.400	5.463	VV	62479	1221937	4.49%	0.074%
36	5.490	5.463	5.507	VV	491124	5044998	18.54%	0.307%

				rters				
37	5.522	5.507	5.545	VV	257726	2899473	10.66%	0.176%
38	5.561	5.545	5.571	VV	33028	376312		
39	5.580	5.571	5.598	VV	31298	365801		
40	5.623	5.598	5.634	VV	22599	418526		
41	5.648	5.634	5.657	VV	26192	322091		
42	5.678	5.657	5.696	VV	175840	2374067		
43	5.704	5.696	5.721	VV	99741	1006709	3.70%	0.061%
44	5.739	5.721	5.747	VV	47077	565195	2.08%	0.034%
45	5.772	5.747	5.808	VV	348999	6085996	22.37%	0.370%
46	5.825	5.808	5.846	VV	200563	2356848	8.66%	0.143%
47	5.863	5.846	5.880	VV	308946	3373051	12.40%	0.205%
48	5.897	5.880	5.925	VV	101276	1939759	7.13%	0.118%
49	5.945	5.925	5.967	VV	161550	2223972	8.17%	0.135%
50	5.996	5.967	6.017	VV	166692	3077418	11.31%	0.187%
51	6.041	6.017	6.058	VV	888830	8954623	32.91%	0.545%
52	6.069	6.058	6.081	VV	159844	1739885	6.40%	0.106%
53	6.085	6.081	6.106	VV	107676	1042399	3.83%	0.063%
54	6.128	6.106	6.150	VV	173605	2178298	8.01%	0.132%
55	6.174	6.150	6.202	VV	283343	5477191	20.13%	0.333%
56	6.216	6.202	6.241	VV	164050	2766473	10.17%	0.168%
57	6.257	6.241	6.276	VV	276935	3359042	12.35%	0.204%
58	6.295	6.276	6.302	VV	199928	2431873	8.94%	0.148%
59	6.308	6.302	6.327	VV	193396	1918177	7.05%	0.117%
60	6.339	6.327	6.345	VV	65838	613788	2.26%	0.037%
61	6.352	6.345	6.366	VV	65890	785555	2.89%	0.048%
62	6.409	6.366	6.438	VV	413999	6998685	25.72%	0.426%
63	6.472	6.438	6.521	VV	610154	10061371	36.98%	0.612%
64	6.558	6.521	6.570	VV	126697	2473463	9.09%	0.150%
65	6.586	6.570	6.606	VV	226915	3576574	13.15%	0.217%
66	6.619	6.606	6.639	VV	230648	2867002	10.54%	0.174%
67	6.670	6.639	6.686	VV	247175	3751039	13.79%	0.228%
68	6.694	6.686	6.705	VV	107687	1112060	4.09%	0.068%
69	6.720	6.705	6.732	VV	145565	1868214	6.87%	0.114%
70	6.751	6.732	6.771	VV	409026	4844634	17.81%	0.295%
71	6.788	6.771	6.797	VV	119857	1530190	5.62%	0.093%
72	6.811	6.797	6.839	VV	172256	3015752	11.08%	0.183%
73	6.877	6.839	6.896	VV	1130650	13558498	49.84%	0.824%
74	6.908	6.896	6.924	VV	172404	2105319	7.74%	0.128%
75	6.946	6.924	6.962	VV	170463	2785695	10.24%	0.169%
76	6.993	6.962	7.015	VV	316109	5794679	21.30%	0.352%
77	7.035	7.015	7.051	VV	489696	6162955	22.65%	0.375%
78	7.106	7.051	7.126	VV	1487939	23281897	85.57%	1.416%
79	7.142	7.126	7.158	VV	192198	2914563	10.71%	0.177%
80	7.177	7.158	7.217	VV	349836	7502735	27.58%	0.456%
81	7.239	7.217	7.262	VV	302293	5505527	20.24%	0.335%
82	7.278	7.262	7.293	VV	115444	1844673	6.78%	0.112%
83	7.306	7.293	7.316	VV	115603	1490957	5.48%	0.091%
84	7.331	7.316	7.346	VV	127661	1951618	7.17%	0.119%
85	7.383	7.346	7.392	VV	1025053	13594119	49.97%	0.827%
86	7.398	7.392	7.424	VV	902046	10597723	38.95%	0.644%
87	7.439	7.424	7.455	VV	476266	5891487	21.65%	0.358%
88	7.471	7.455	7.509	VV	288291	6897591	25.35%	0.419%
89	7.520	7.509	7.529	VV	106298	1276324	4.69%	0.078%

Instrument :

FID_D

ClientSampleId :

SOILMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

90	7.544	7.529	7.550	VV	123188	1435581	5.28%	0.087%
91	7.573	7.550	7.584	VV	592576	7368815	27.59%	0.161%
92	7.593	7.584	7.609	VV	543341	5876568	23.59%	0.241%
93	7.625	7.609	7.645	VV	337240	4687774	17.59%	0.423%
94	7.668	7.645	7.683	VV	289244	4085555	15.59%	0.308%
95	7.711	7.683	7.747	VV	972625	14681413	53.59%	0.441%
96	7.761	7.747	7.773	VV	194039	2650127	9.74%	0.161%
97	7.789	7.773	7.807	VV	216553	3969957	14.59%	0.241%
98	7.831	7.807	7.853	VV	321520	6961036	25.59%	0.423%
99	7.872	7.853	7.888	VV	273113	5057621	18.59%	0.308%
100	7.915	7.888	7.937	VV	354797	7250842	26.65%	0.441%
101	7.967	7.937	7.984	VV	327341	6813134	25.04%	0.414%
102	8.007	7.984	8.018	VV	808689	10928578	40.17%	0.665%
103	8.029	8.018	8.055	VV	721301	9361951	34.41%	0.569%
104	8.091	8.055	8.108	VV	589451	12091361	44.44%	0.735%
105	8.114	8.108	8.134	VV	225126	2879435	10.58%	0.175%
106	8.154	8.134	8.163	VV	202471	3151879	11.59%	0.192%
107	8.197	8.163	8.211	VV	653798	12947557	47.59%	0.787%
108	8.225	8.211	8.239	VV	658193	8041499	29.56%	0.489%
109	8.273	8.239	8.302	VV	953132	21605265	79.41%	1.314%
110	8.311	8.302	8.330	VV	390692	5353964	19.68%	0.326%
111	8.348	8.330	8.353	VV	348020	4039927	14.85%	0.246%
112	8.386	8.353	8.405	VV	1374065	22766549	83.68%	1.384%
113	8.435	8.405	8.447	VV	518304	8294342	30.49%	0.504%
114	8.460	8.447	8.475	VV	524019	6658987	24.48%	0.405%
115	8.496	8.475	8.530	VV	747496	14252325	52.39%	0.867%
116	8.579	8.530	8.611	VV	497570	13591015	49.96%	0.826%
117	8.645	8.611	8.654	VV	361098	6941741	25.52%	0.422%
118	8.684	8.654	8.699	VV	1408084	20803555	76.47%	1.265%
119	8.715	8.699	8.741	VV	533937	11472160	42.17%	0.698%
120	8.749	8.741	8.764	VV	414393	5029720	18.49%	0.306%
121	8.802	8.764	8.826	VV	541450	14851343	54.59%	0.903%
122	8.865	8.826	8.891	VV	309050	10774973	39.60%	0.655%
123	8.914	8.891	8.938	VV	701760	12472426	45.84%	0.758%
124	8.950	8.938	8.971	VV	357242	6575815	24.17%	0.400%
125	8.987	8.971	9.004	VV	436488	6604216	24.27%	0.402%
126	9.034	9.004	9.051	VV	391920	8827897	32.45%	0.537%
127	9.094	9.051	9.111	VV	1177309	22417133	82.40%	1.363%
128	9.127	9.111	9.161	VV	717437	13434065	49.38%	0.817%
129	9.188	9.161	9.206	VV	351588	8292308	30.48%	0.504%
130	9.242	9.206	9.257	VV	587609	11707510	43.03%	0.712%
131	9.274	9.257	9.288	VV	549224	7556776	27.78%	0.460%
132	9.293	9.288	9.307	VV	320222	3366336	12.37%	0.205%
133	9.324	9.307	9.340	VV	437060	7156605	26.30%	0.435%
134	9.354	9.340	9.361	VV	364532	4048466	14.88%	0.246%
135	9.380	9.361	9.399	VV	715503	11850219	43.56%	0.721%
136	9.403	9.399	9.419	VV	377865	4214718	15.49%	0.256%
137	9.423	9.419	9.436	VV	345186	3528118	12.97%	0.215%
138	9.470	9.436	9.501	VV	1598475	27206483	100.00%	1.654%
139	9.544	9.501	9.572	VV	709605	19773926	72.68%	1.202%
140	9.606	9.572	9.622	VV	377165	10309891	37.89%	0.627%
141	9.642	9.622	9.652	VV	491664	7635614	28.07%	0.464%

Instrument :

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Manual IntegrationsAPPROVED

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				rters				
142	9.661	9.652	9.679	VV	481597	6844550	25.16%	0.416%
143	9.698	9.679	9.720	VV	418355	8549273	31.16%	0.416%
144	9.746	9.720	9.764	VV	370178	8747411	32.16%	0.416%
145	9.780	9.764	9.792	VV	411484	6306259	23.16%	0.416%
146	9.823	9.792	9.846	VV	503053	13464843	49.16%	0.347%
147	9.870	9.846	9.922	VV	1350932	25605878	94.16%	0.347%
148	9.945	9.922	9.956	VV	293200	5713857	21.00%	0.347%
149	9.974	9.956	10.013	VV	323248	9449048	34.73%	0.575%
150	10.042	10.013	10.090	VV	474845	14634765	53.79%	0.890%
151	10.116	10.090	10.123	VV	269149	5214637	19.17%	0.317%
152	10.139	10.123	10.156	VV	322890	5749954	21.13%	0.350%
153	10.200	10.156	10.219	VV	474518	12893656	47.39%	0.784%
154	10.224	10.219	10.236	VV	337138	3303406	12.14%	0.201%
155	10.258	10.236	10.286	VV	613479	13003035	47.79%	0.791%
156	10.312	10.286	10.325	VV	510606	9840110	36.17%	0.598%
157	10.338	10.325	10.362	VV	529520	9369226	34.44%	0.570%
158	10.383	10.362	10.431	VV	707602	17018786	62.55%	1.035%
159	10.455	10.431	10.465	VV	425870	7279094	26.75%	0.443%
160	10.475	10.465	10.492	VV	406889	5998784	22.05%	0.365%
161	10.515	10.492	10.545	VV	535258	12737944	46.82%	0.775%
162	10.558	10.545	10.572	VV	342311	5071813	18.64%	0.308%
163	10.611	10.572	10.642	VV	1143802	23620668	86.82%	1.436%
164	10.680	10.642	10.703	VV	693150	16587479	60.97%	1.009%
165	10.724	10.703	10.779	VV	422418	14689732	53.99%	0.893%
166	10.827	10.779	10.837	VV	317572	9904351	36.40%	0.602%
167	10.871	10.837	10.888	VV	1482277	24258977	89.17%	1.475%
168	10.901	10.888	10.915	VV	382716	5820858	21.40%	0.354%
169	10.948	10.915	10.968	VV	1478985	24065098	88.45%	1.463%
170	10.997	10.968	11.028	VV	339555	11028010	40.53%	0.671%
171	11.056	11.028	11.067	VV	325426	7212556	26.51%	0.439%
172	11.078	11.067	11.092	VV	323138	4563666	16.77%	0.278%
173	11.109	11.092	11.143	VV	342408	8773903	32.25%	0.534%
174	11.167	11.143	11.188	VV	397539	8285718	30.45%	0.504%
175	11.218	11.188	11.235	VV	365800	8659177	31.83%	0.527%
176	11.251	11.235	11.279	VV	371439	8483973	31.18%	0.516%
177	11.309	11.279	11.326	VV	1058728	16774794	61.66%	1.020%
178	11.331	11.326	11.365	VV	381535	7405232	27.22%	0.450%
179	11.397	11.365	11.416	VV	490432	10849475	39.88%	0.660%
180	11.426	11.416	11.441	VV	330507	4595704	16.89%	0.279%
181	11.453	11.441	11.474	VV	278283	5142950	18.90%	0.313%
182	11.495	11.474	11.520	VV	314088	7851191	28.86%	0.477%
183	11.537	11.520	11.568	VV	309994	7804267	28.69%	0.475%
184	11.596	11.568	11.601	VV	296701	5138317	18.89%	0.312%
185	11.626	11.601	11.645	VV	804544	13132516	48.27%	0.799%
186	11.658	11.645	11.672	VV	316087	4627785	17.01%	0.281%
187	11.691	11.672	11.719	VV	402804	8655467	31.81%	0.526%
188	11.740	11.719	11.765	VV	332709	8191968	30.11%	0.498%
189	11.781	11.765	11.793	VV	302085	4647637	17.08%	0.283%
190	11.806	11.793	11.824	VV	342651	5439403	19.99%	0.331%
191	11.841	11.824	11.865	VV	292388	6551096	24.08%	0.398%
192	11.874	11.865	11.885	VV	242702	2942201	10.81%	0.179%
193	11.909	11.885	11.926	VV	245326	5653796	20.78%	0.344%
194	11.974	11.926	12.003	VV	823786	19175415	70.48%	1.166%

Instrument :

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SOILMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Instrument :

FID_D

ClientSampleId :

SOILMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

					rt	Area	Area%	Height
195	12.021	12.003	12.087	VV	371953	13206540	48.54%	0.803%
196	12.092	12.087	12.109	VV	218044	2774614	10.00%	0.000%
197	12.120	12.109	12.142	VV	203575	3968100	14.00%	0.000%
198	12.152	12.142	12.167	VV	205559	2941659	10.00%	0.000%
199	12.174	12.167	12.191	VV	195893	2779052	10.00%	0.000%
200	12.237	12.191	12.255	VV	555548	13113793	48.00%	0.000%
201	12.270	12.255	12.295	VV	242227	5273176	19.38%	0.321%
202	12.350	12.295	12.365	VV	235103	8705650	32.00%	0.529%
203	12.383	12.365	12.418	VV	254323	6864038	25.23%	0.417%
204	12.443	12.418	12.482	VV	248943	8211041	30.18%	0.499%
205	12.487	12.482	12.501	VV	181545	2063412	7.58%	0.125%
206	12.557	12.501	12.577	VV	262589	9402952	34.56%	0.572%
207	12.612	12.577	12.646	VV	792100	15122893	55.59%	0.920%
208	12.686	12.646	12.718	VV	1266508	21964944	80.73%	1.336%
209	12.730	12.718	12.739	VV	162976	2074195	7.62%	0.126%
210	12.752	12.739	12.776	VV	162517	3406908	12.52%	0.207%
211	12.799	12.776	12.820	VV	155733	3927667	14.44%	0.239%
212	12.858	12.820	12.881	VV	176437	5786267	21.27%	0.352%
213	12.897	12.881	12.916	VV	165088	3233950	11.89%	0.197%
214	12.930	12.916	12.942	VV	146580	2221256	8.16%	0.135%
215	12.983	12.942	13.010	VV	1209152	19852910	72.97%	1.207%
216	13.038	13.010	13.070	VV	462678	9910667	36.43%	0.603%
217	13.095	13.070	13.180	VV	483145	12981128	47.71%	0.789%
218	13.219	13.180	13.248	VV	547897	10261486	37.72%	0.624%
219	13.274	13.248	13.319	VV	241479	7628209	28.04%	0.464%
220	13.326	13.319	13.346	VV	125027	1882107	6.92%	0.114%
221	13.358	13.346	13.372	VV	112686	1656334	6.09%	0.101%
222	13.390	13.372	13.410	VV	118537	2509208	9.22%	0.153%
223	13.450	13.410	13.481	VV	370562	7977980	29.32%	0.485%
224	13.494	13.481	13.533	VV	119488	3402159	12.50%	0.207%
225	13.558	13.533	13.575	VV	105371	2528305	9.29%	0.154%
226	13.588	13.575	13.620	VV	104231	2524791	9.28%	0.154%
227	13.640	13.620	13.677	VV	101635	3115154	11.45%	0.189%
228	13.697	13.677	13.730	VV	110330	2963356	10.89%	0.180%
229	13.737	13.730	13.764	VV	82639	1569775	5.77%	0.095%
230	13.800	13.764	13.844	VV	373996	7316621	26.89%	0.445%
231	13.863	13.844	13.902	VV	88380	2657800	9.77%	0.162%
232	13.910	13.902	13.938	VV	66482	1357554	4.99%	0.083%
233	13.945	13.938	13.976	VV	59956	1330138	4.89%	0.081%
234	14.021	13.976	14.077	VV	70975	3718544	13.67%	0.226%
235	14.094	14.077	14.117	VV	61720	1372428	5.04%	0.083%
236	14.134	14.117	14.145	VV	56968	922200	3.39%	0.056%
237	14.162	14.145	14.199	VV	66231	1822209	6.70%	0.111%
238	14.216	14.199	14.246	VV	55264	1474151	5.42%	0.090%
239	14.259	14.246	14.270	VV	49112	709868	2.61%	0.043%
240	14.275	14.270	14.279	VV	46709	241093	0.89%	0.015%
241	14.282	14.279	14.301	VV	46647	595906	2.19%	0.036%
242	14.311	14.301	14.335	VV	44931	870303	3.20%	0.053%
243	14.361	14.335	14.395	VV	156254	2811820	10.34%	0.171%
244	14.418	14.395	14.440	VV	48527	1174409	4.32%	0.071%
245	14.453	14.440	14.468	VV	41153	671485	2.47%	0.041%
246	14.485	14.468	14.504	VV	44320	862617	3.17%	0.052%

							Chemical Analysis	
							SOILMSD	
247	14.520	14.504	14.537	VV	38949	697386	2.56%	0.042%
248	14.569	14.537	14.605	VV	40850	1490423	5.12%	0.051%
249	14.609	14.605	14.624	VV	32831	351584	1.12%	0.031%
250	14.640	14.624	14.665	VV	34495	785780	2.31%	0.041%
							Manual Integration	
251	14.679	14.665	14.694	VV	31802	521681	1.03%	0.031%
252	14.708	14.694	14.734	VV	30023	657001	2.12%	0.041%
253	14.753	14.734	14.775	VV	29573	672656	2.47%	0.041%
254	14.783	14.775	14.799	VV	24841	344284	1.27%	0.021%
255	14.848	14.799	14.866	VV	803701	13525535	49.71%	0.822%
256	14.895	14.866	14.931	VV	1159799	14968396	55.02%	0.910%
257	14.946	14.931	14.966	VV	21394	438025	1.61%	0.027%
258	14.981	14.966	15.020	VV	20710	600408	2.21%	0.037%
259	15.031	15.020	15.060	VV	16753	393976	1.45%	0.024%
260	15.087	15.060	15.112	VV	18287	525778	1.93%	0.032%
261	15.117	15.112	15.122	VV	16587	102620	0.38%	0.006%
262	15.138	15.122	15.165	VV	17794	407687	1.50%	0.025%
263	15.170	15.165	15.192	VV	14009	215300	0.79%	0.013%
264	15.203	15.192	15.216	VV	13485	194042	0.71%	0.012%
265	15.229	15.216	15.244	VV	14538	227925	0.84%	0.014%
266	15.269	15.244	15.311	VV	37739	870119	3.20%	0.053%
267	15.319	15.311	15.379	VV	12971	466841	1.72%	0.028%
268	15.414	15.379	15.449	VV	32354	728032	2.68%	0.044%
269	15.472	15.449	15.535	VV	18198	585189	2.15%	0.036%
270	15.541	15.535	15.569	VV	7900	154141	0.57%	0.009%
271	15.593	15.569	15.608	VV	8671	185317	0.68%	0.011%
272	15.625	15.608	15.660	VV	12274	297840	1.09%	0.018%
273	15.671	15.660	15.697	VV	8102	160493	0.59%	0.010%
274	15.739	15.697	15.762	VV	8068	267642	0.98%	0.016%
275	15.767	15.762	15.771	VV	6155	32619	0.12%	0.002%
276	15.788	15.771	15.829	VV	6776	210108	0.77%	0.013%
277	15.832	15.829	15.835	VV	5378	20158	0.07%	0.001%
278	15.841	15.835	15.869	VV	5373	104073	0.38%	0.006%
279	15.875	15.869	15.885	VV	5121	49804	0.18%	0.003%
280	15.917	15.885	15.949	VV	91698	1287626	4.73%	0.078%
281	15.969	15.949	16.000	VV	5447	142158	0.52%	0.009%
282	16.008	16.000	16.067	VV	3770	126022	0.46%	0.008%
283	16.109	16.067	16.133	VV	4717	149161	0.55%	0.009%
284	16.142	16.133	16.154	VV	3148	38480	0.14%	0.002%
285	16.164	16.154	16.185	VV	3182	54916	0.20%	0.003%
286	16.224	16.185	16.258	VV	3308	130201	0.48%	0.008%
287	16.282	16.258	16.316	VV	4723	119510	0.44%	0.007%
288	16.322	16.316	16.335	VV	2708	28078	0.10%	0.002%
289	16.400	16.335	16.415	VV	674329	12302800	45.22%	0.748%
290	16.438	16.415	16.507	VV	906663	11834169	43.50%	0.720%
291	16.524	16.507	16.545	VV	2858	51636	0.19%	0.003%
292	16.554	16.545	16.568	VV	2036	27196	0.10%	0.002%
293	16.573	16.568	16.587	VV	2103	21322	0.08%	0.001%
294	16.590	16.587	16.594	VV	1786	7138	0.03%	0.000%
295	16.633	16.594	16.676	VV	4976	123690	0.45%	0.008%
296	16.693	16.676	16.723	VV	2219	47788	0.18%	0.003%
297	16.781	16.723	16.813	VV	783359	11569460	42.52%	0.704%
298	16.860	16.813	16.890	VV	81303	1106533	4.07%	0.067%
299	16.910	16.890	16.959	VV	8786	158135	0.58%	0.010%

300	16.968	16.959	16.996	VV	653	12581	0.05%	0.001%
301	17.016	16.996	17.063	VV	760	17789		
302	17.071	17.063	17.076	VV	251	1483		
303	17.102	17.076	17.107	VV	649	8042		
304	17.119	17.107	17.136	VV	737	9897		
305	17.169	17.136	17.177	VV	757	14413		
306	17.220	17.177	17.258	VV	3497	69782	0.26%	0.004%
307	17.310	17.258	17.356	VV	2553	58565	0.22%	0.004%
308	17.376	17.356	17.384	VV	488	5843	0.02%	0.000%
309	17.403	17.384	17.409	VV	644	8143	0.03%	0.000%
310	17.427	17.409	17.450	VV	928	18072	0.07%	0.001%
311	17.457	17.450	17.461	VV	826	4995	0.02%	0.000%
312	17.480	17.461	17.499	VV	1096	17188	0.06%	0.001%
313	17.562	17.499	17.585	PV	2947	57249	0.21%	0.003%
314	17.614	17.585	17.649	VV	1227	34319	0.13%	0.002%
315	17.669	17.649	17.692	VV	1440	26579	0.10%	0.002%
316	17.748	17.692	17.782	VV	69580	993393	3.65%	0.060%
317	17.791	17.782	17.809	VV	508	6937	0.03%	0.000%
318	17.835	17.809	17.856	VV	1503	26996	0.10%	0.002%
319	17.871	17.856	17.875	VV	870	7473	0.03%	0.000%
320	17.893	17.875	17.918	VV	1193	24257	0.09%	0.001%
321	17.935	17.918	17.954	VV	1217	20507	0.08%	0.001%
322	17.958	17.954	17.977	VV	1072	12574	0.05%	0.001%
323	17.982	17.977	17.986	VV	894	4352	0.02%	0.000%
324	17.988	17.986	18.000	VV	875	6654	0.02%	0.000%
325	18.003	18.000	18.007	VV	906	3187	0.01%	0.000%
326	18.012	18.007	18.021	VV	961	7523	0.03%	0.000%
327	18.029	18.021	18.044	VV	981	11153	0.04%	0.001%
328	18.149	18.044	18.161	VV	659830	12316025	45.27%	0.749%
329	18.188	18.161	18.237	VV	774930	10933228	40.19%	0.665%
330	18.265	18.237	18.276	VV	1829	33159	0.12%	0.002%
331	18.299	18.276	18.339	VV	2125	47622	0.18%	0.003%
332	18.409	18.339	18.472	PV	671369	11361146	41.76%	0.691%
Sum of corrected areas:					1644557089			

Instrument :

FID_D

ClientSampleId :

SOILMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/09/2025

Supervised By :mohammad ahmed 10/10/2025

Aromatic EPH 100225.M Thu Oct 09 07:16:27 2025



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

Manual Integration Report

Sequence:	FC100725AL	Instrument	FID_c
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FC069940.D	n-Tetratriacontane (C34)	yogesh	10/7/2025 10:33:24 AM	mohammad	10/8/2025 3:35:18	Peak Integrated by Software

Manual Integration Report

Sequence:	FC100925AL	Instrument	FID_c
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3301-01	FC069963.D	ortho-Terphenyl (SURRE)	yogesh	10/9/2025 1:03:22 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01D	FC069964.D	ortho-Terphenyl (SURRE)	yogesh	10/9/2025 1:03:24 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	1-chlorooctadecane (SURRE)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	n-Dodecane (C12)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	n-Eicosane (C20)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	n-Hexadecane (C16)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	n-Nonane (C9)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	n-Octadecane (C18)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MS	FC069965.D	n-Tetradecane (C14)	yogesh	10/9/2025 1:03:26 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MSD	FC069966.D	1-chlorooctadecane (SURRE)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MSD	FC069966.D	n-Eicosane (C20)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MSD	FC069966.D	n-Heneicosane (C21)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MSD	FC069966.D	n-Hexadecane (C16)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software

Manual Integration Report

Sequence:

FC100925AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3301-01MSD	FC069966.D	n-Nonane (C9)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MSD	FC069966.D	n-Octadecane (C18)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01MSD	FC069966.D	n-Tetradecane (C14)	yogesh	10/9/2025 1:03:28 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01DL	FC069967.D	1-chlorooctadecane (SURR)	yogesh	10/9/2025 1:03:29 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01DL	FC069967.D	ortho-Terphenyl (SURR)	yogesh	10/9/2025 1:03:29 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software
Q3301-01DL2	FC069968.D	ortho-Terphenyl (SURR)	yogesh	10/9/2025 1:03:31 PM	mohammad	10/10/2025 1:50:59	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FD100225AR

Instrument

FID_d

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	FD100825AR	Instrument	FID_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB170011BS	FD049829.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/9/2025 3:09:11 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
PB170011BS	FD049829.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/9/2025 3:09:11 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
PB170011BSD	FD049830.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/9/2025 3:09:14 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
PB170011BSD	FD049830.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/9/2025 3:09:14 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01	FD049832.D	2-Bromonaphthalene (SURRE)	yogesh	10/9/2025 3:09:15 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01	FD049832.D	2-Fluorobiphenyl (SURRE)	yogesh	10/9/2025 3:09:15 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01	FD049832.D	ortho-Terphenyl (SURRE)	yogesh	10/9/2025 3:09:15 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01D	FD049833.D	2-Bromonaphthalene (SURRE)	yogesh	10/9/2025 3:09:17 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01D	FD049833.D	2-Fluorobiphenyl (SURRE)	yogesh	10/9/2025 3:09:17 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01D	FD049833.D	ortho-Terphenyl (SURRE)	yogesh	10/9/2025 3:09:17 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	2-Bromonaphthalene (SURRE)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	2-Fluorobiphenyl (SURRE)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	2-Methylnaphthalene (C12.89)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software

Manual Integration Report

Sequence:	FD100825AR	Instrument	FID_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3301-01MS	FD049834.D	Acenaphthene (C15.5)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Acenaphthylene (C15.06)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Anthracene (C19.43)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Benzo[a]anthracene (C26.37)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Chrysene (C27.41)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Flouorene (C16.55)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Fluoranthene (C21.85)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	ortho-Terphenyl (SURR)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Phenanthrene (C19.36)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MS	FD049834.D	Pyrene (C20.8)	yogesh	10/9/2025 3:09:19 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	2-Bromonaphthalene (SURR)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software

Manual Integration Report

Sequence:	FD100825AR	Instrument	FID_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3301-01MSD	FD049835.D	2-Fluorobiphenyl (SURR)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	2-Methylnaphthalene (C12.89)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Acenaphthene (C15.5)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Acenaphthylene (C15.06)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Anthracene (C19.43)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Benzo[a]anthracene (C26.37)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Chrysene (C27.41)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Flouorene (C16.55)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Fluoranthene (C21.85)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	ortho-Terphenyl (SURR)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software

Manual Integration Report

Sequence:

FD100825AR

Instrument

FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3301-01MSD	FD049835.D	Phenanthrene (C19.36)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01MSD	FD049835.D	Pyrene (C20.8)	yogesh	10/9/2025 3:09:20 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01DL	FD049836.D	2-Bromonaphthalene (SURR)	yogesh	10/9/2025 3:09:26 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01DL	FD049836.D	2-Fluorobiphenyl (SURR)	yogesh	10/9/2025 3:09:26 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01DL	FD049836.D	ortho-Terphenyl (SURR)	yogesh	10/9/2025 3:09:26 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01DL2	FD049837.D	2-Fluorobiphenyl (SURR)	yogesh	10/9/2025 3:09:24 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software
Q3301-01DL2	FD049837.D	ortho-Terphenyl (SURR)	yogesh	10/9/2025 3:09:24 PM	mohammad	10/10/2025 1:50:54	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100725AL

Review By	yogesh	Review On	10/7/2025 10:33:30 AM
Supervise By	mohammad	Supervise On	10/8/2025 3:35:18 AM
SubDirectory	FC100725AL	HP Acquire Method	HP Processing Method FC100725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069935.D	06 Oct 2025 14:47	YP/AJ	Ok
2	I.BLK	FC069936.D	06 Oct 2025 15:31	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069937.D	06 Oct 2025 16:17	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069938.D	06 Oct 2025 17:03	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069939.D	06 Oct 2025 17:50	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069940.D	06 Oct 2025 18:35	YP/AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FC069941.D	06 Oct 2025 19:19	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069942.D	06 Oct 2025 20:02	YP/AJ	Ok
9	I.BLK	FC069943.D	06 Oct 2025 21:29	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069944.D	06 Oct 2025 22:12	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100925AL

Review By	yogesh	Review On	10/8/2025 1:26:14 PM
Supervise By	mohammad	Supervise On	10/10/2025 1:50:59 AM
SubDirectory	FC100925AL	HP Acquire Method	HP Processing Method FC100725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069957.D	08 Oct 2025 07:17	YP/AJ	Ok
2	I.BLK	FC069958.D	08 Oct 2025 07:58	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069959.D	08 Oct 2025 08:40	YP/AJ	Ok
4	PB170011BS	FC069960.D	08 Oct 2025 10:06	YP/AJ	Ok
5	PB170011BSD	FC069961.D	08 Oct 2025 10:50	YP/AJ	Ok
6	PB170011BL	FC069962.D	08 Oct 2025 11:33	YP/AJ	Ok
7	Q3301-01	FC069963.D	08 Oct 2025 12:16	YP/AJ	Dilution
8	Q3301-01D	FC069964.D	08 Oct 2025 13:00	YP/AJ	Ok,M
9	Q3301-01MS	FC069965.D	08 Oct 2025 13:43	YP/AJ	Ok,M
10	Q3301-01MSD	FC069966.D	08 Oct 2025 14:25	YP/AJ	Ok,M
11	Q3301-01DL	FC069967.D	08 Oct 2025 15:08	YP/AJ	Dilution
12	Q3301-01DL2	FC069968.D	08 Oct 2025 15:51	YP/AJ	Ok,M
13	I.BLK	FC069969.D	08 Oct 2025 17:18	YP/AJ	Ok
14	20 PPM ALIPHATIC HC STD	FC069970.D	08 Oct 2025 18:44	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD100225AR

Review By	yogesh	Review On	10/2/2025 10:15:14 AM
Supervise By	mohammad	Supervise On	10/4/2025 6:30:33 AM
SubDirectory	FD100225AR	HP Acquire Method	HP Processing Method FD100225AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24954,PP24956,PP24957,PP24958,PP24959		
CCC Internal Standard/PEM	PP24961		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24955,PP24960		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049789.D	02 Oct 2025 08:21	YP/AJ	Ok
2	I.BLK	FD049790.D	02 Oct 2025 09:00	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049791.D	02 Oct 2025 09:40	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049792.D	02 Oct 2025 10:21	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049793.D	02 Oct 2025 11:03	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049794.D	02 Oct 2025 11:44	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049795.D	02 Oct 2025 12:26	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049796.D	02 Oct 2025 13:09	YP/AJ	Ok
9	I.BLK	FD049797.D	02 Oct 2025 13:52	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049798.D	02 Oct 2025 14:35	YP/AJ	Ok
11	PB169950BS	FD049799.D	02 Oct 2025 16:01	YP/AJ	Ok
12	PB169950BSD	FD049800.D	02 Oct 2025 16:44	YP/AJ	Ok
13	PB169950BL	FD049801.D	02 Oct 2025 17:28	YP/AJ	Ok
14	Q3238-01	FD049802.D	02 Oct 2025 18:12	YP/AJ	Ok
15	Q3238-01D	FD049803.D	02 Oct 2025 18:55	YP/AJ	Ok
16	Q3238-01MS	FD049804.D	02 Oct 2025 19:37	YP/AJ	Ok
17	Q3238-01MSD	FD049805.D	02 Oct 2025 20:19	YP/AJ	Ok
18	Q3257-01	FD049806.D	02 Oct 2025 21:02	YP/AJ	Ok
19	Q3257-02	FD049807.D	02 Oct 2025 21:44	YP/AJ	Ok
20	Q3266-01	FD049808.D	02 Oct 2025 22:25	YP/AJ	ReRun
21	Q3266-02	FD049809.D	02 Oct 2025 23:07	YP/AJ	Ok

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD100225AR

Review By	yogesh	Review On	10/2/2025 10:15:14 AM
Supervise By	mohammad	Supervise On	10/4/2025 6:30:33 AM
SubDirectory	FD100225AR	HP Acquire Method	HP Processing Method FD100225AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24954,PP24956,PP24957,PP24958,PP24959		
CCC Internal Standard/PEM	PP24961		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24955,PP24960		

22	I.BLK	FD049810.D	03 Oct 2025 00:28	YP/AJ	Ok
23	20 PPM AROMATIC HC STD	FD049811.D	03 Oct 2025 01:09	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD100825AR

Review By	yogesh	Review On	10/8/2025 11:33:23 AM
Supervise By	mohammad	Supervise On	10/10/2025 1:50:54 AM
SubDirectory	FD100825AR	HP Acquire Method	HP Processing Method FD100225AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24954,PP24956,PP24957,PP24958,PP24959		
CCC Internal Standard/PEM	PP24961		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24955,PP24960		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049826.D	08 Oct 2025 07:17	YP/AJ	Ok
2	I.BLK	FD049827.D	08 Oct 2025 07:58	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049828.D	08 Oct 2025 08:40	YP/AJ	Ok
4	PB170011BS	FD049829.D	08 Oct 2025 09:22	YP/AJ	Ok,M
5	PB170011BSD	FD049830.D	08 Oct 2025 10:06	YP/AJ	Ok,M
6	PB170011BL	FD049831.D	08 Oct 2025 10:50	YP/AJ	Ok
7	Q3301-01	FD049832.D	08 Oct 2025 11:33	YP/AJ	Dilution
8	Q3301-01D	FD049833.D	08 Oct 2025 12:16	YP/AJ	Ok,M
9	Q3301-01MS	FD049834.D	08 Oct 2025 13:00	YP/AJ	Ok,M
10	Q3301-01MSD	FD049835.D	08 Oct 2025 13:43	YP/AJ	Ok,M
11	Q3301-01DL	FD049836.D	08 Oct 2025 14:25	YP/AJ	Dilution
12	Q3301-01DL2	FD049837.D	08 Oct 2025 15:08	YP/AJ	Ok,M
13	I.BLK	FD049838.D	08 Oct 2025 16:35	YP/AJ	Ok
14	20 PPM AROMATIC HC STD	FD049839.D	08 Oct 2025 17:18	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100725AL

Review By	yogesh	Review On	10/7/2025 10:33:30 AM
Supervise By	mohammad	Supervise On	10/8/2025 3:35:18 AM
SubDirectory	FC100725AL	HP Acquire Method	HP Processing Method FC100725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069935.D	06 Oct 2025 14:47		YP/AJ	Ok
2	I.BLK	I.BLK	FC069936.D	06 Oct 2025 15:31		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC069937.D	06 Oct 2025 16:17		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069938.D	06 Oct 2025 17:03		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069939.D	06 Oct 2025 17:50		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069940.D	06 Oct 2025 18:35		YP/AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069941.D	06 Oct 2025 19:19		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069942.D	06 Oct 2025 20:02		YP/AJ	Ok
9	I.BLK	I.BLK	FC069943.D	06 Oct 2025 21:29		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069944.D	06 Oct 2025 22:12		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100925AL

Review By	yogesh	Review On	10/8/2025 1:26:14 PM
Supervise By	mohammad	Supervise On	10/10/2025 1:50:59 AM
SubDirectory	FC100925AL	HP Acquire Method	HP Processing Method FC100725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM	PP24769,PP24774		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069957.D	08 Oct 2025 07:17		YP/AJ	Ok
2	I.BLK	I.BLK	FC069958.D	08 Oct 2025 07:58		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069959.D	08 Oct 2025 08:40		YP/AJ	Ok
4	PB170011BS	PB170011BS	FC069960.D	08 Oct 2025 10:06		YP/AJ	Ok
5	PB170011BSD	PB170011BSD	FC069961.D	08 Oct 2025 10:50		YP/AJ	Ok
6	PB170011BL	PB170011BL	FC069962.D	08 Oct 2025 11:33		YP/AJ	Ok
7	Q3301-01	SOIL	FC069963.D	08 Oct 2025 12:16	need 20x & 100x dilution	YP/AJ	Dilution
8	Q3301-01D	Q3301-01D	FC069964.D	08 Oct 2025 13:00		YP/AJ	Ok,M
9	Q3301-01MS	SOILMS	FC069965.D	08 Oct 2025 13:43	FC069963.D	YP/AJ	Ok,M
10	Q3301-01MSD	SOILMSD	FC069966.D	08 Oct 2025 14:25	FC069963.D!FC069965.D	YP/AJ	Ok,M
11	Q3301-01DL	SOILDL	FC069967.D	08 Oct 2025 15:08	need further dilution	YP/AJ	Dilution
12	Q3301-01DL2	SOILDL2	FC069968.D	08 Oct 2025 15:51		YP/AJ	Ok,M
13	I.BLK	I.BLK	FC069969.D	08 Oct 2025 17:18		YP/AJ	Ok
14	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069970.D	08 Oct 2025 18:44		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD100225AR

Review By	yogesh	Review On	10/2/2025 10:15:14 AM
Supervise By	mohammad	Supervise On	10/4/2025 6:30:33 AM
SubDirectory	FD100225AR	HP Acquire Method	HP Processing Method
			FD100225AR

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24954,PP24956,PP24957,PP24958,PP24959
CCC Internal Standard/PEM	PP24961
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24955,PP24960

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049789.D	02 Oct 2025 08:21		YP/AJ	Ok
2	I.BLK	I.BLK	FD049790.D	02 Oct 2025 09:00		YP/AJ	Ok
3	100 PPM AROMATIC HC	100 PPM AROMATIC HC	FD049791.D	02 Oct 2025 09:40		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049792.D	02 Oct 2025 10:21		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049793.D	02 Oct 2025 11:03		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049794.D	02 Oct 2025 11:44		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049795.D	02 Oct 2025 12:26		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049796.D	02 Oct 2025 13:09		YP/AJ	Ok
9	I.BLK	I.BLK	FD049797.D	02 Oct 2025 13:52		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049798.D	02 Oct 2025 14:35		YP/AJ	Ok
11	PB169950BS	PB169950BS	FD049799.D	02 Oct 2025 16:01		YP/AJ	Ok
12	PB169950BSD	PB169950BSD	FD049800.D	02 Oct 2025 16:44		YP/AJ	Ok
13	PB169950BL	PB169950BL	FD049801.D	02 Oct 2025 17:28		YP/AJ	Ok
14	Q3238-01	RCA	FD049802.D	02 Oct 2025 18:12		YP/AJ	Ok
15	Q3238-01D	Q3238-01D	FD049803.D	02 Oct 2025 18:55		YP/AJ	Ok
16	Q3238-01MS	RCAMS	FD049804.D	02 Oct 2025 19:37	FD049802.D	YP/AJ	Ok
17	Q3238-01MSD	RCAMSD	FD049805.D	02 Oct 2025 20:19	FD049802.D!FD049804.D	YP/AJ	Ok
18	Q3257-01	ENV1-6FT	FD049806.D	02 Oct 2025 21:02		YP/AJ	Ok

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD100225AR

Review By	yogesh	Review On	10/2/2025 10:15:14 AM
Supervise By	mohammad	Supervise On	10/4/2025 6:30:33 AM
SubDirectory	FD100225AR	HP Acquire Method	HP Processing Method
			FD100225AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24954,PP24956,PP24957,PP24958,PP24959		
CCC	PP24961		
Internal Standard/PEM			
ICV/I.BLK	PP24955,PP24960		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3257-02	ENV2-6FT	FD049807.D	02 Oct 2025 21:44		YP/AJ	Ok
20	Q3266-01	Q3266-01	FD049808.D	02 Oct 2025 22:25	Surrogate fail	YP/AJ	ReRun
21	Q3266-02	ENV-4-6FT	FD049809.D	02 Oct 2025 23:07		YP/AJ	Ok
22	I.BLK	I.BLK	FD049810.D	03 Oct 2025 00:28		YP/AJ	Ok
23	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049811.D	03 Oct 2025 01:09		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD100825AR

Review By	yogesh	Review On	10/8/2025 11:33:23 AM
Supervise By	mohammad	Supervise On	10/10/2025 1:50:54 AM
SubDirectory	FD100825AR	HP Acquire Method	HP Processing Method
			FD100225AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24954,PP24956,PP24957,PP24958,PP24959		
CCC	PP24961		
Internal Standard/PEM			
ICV/I.BLK	PP24955,PP24960		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049826.D	08 Oct 2025 07:17		YP/AJ	Ok
2	I.BLK	I.BLK	FD049827.D	08 Oct 2025 07:58		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049828.D	08 Oct 2025 08:40		YP/AJ	Ok
4	PB170011BS	PB170011BS	FD049829.D	08 Oct 2025 09:22		YP/AJ	Ok,M
5	PB170011BSD	PB170011BSD	FD049830.D	08 Oct 2025 10:06		YP/AJ	Ok,M
6	PB170011BL	PB170011BL	FD049831.D	08 Oct 2025 10:50		YP/AJ	Ok
7	Q3301-01	SOIL	FD049832.D	08 Oct 2025 11:33	need 5x & 25x dilution	YP/AJ	Dilution
8	Q3301-01D	Q3301-01D	FD049833.D	08 Oct 2025 12:16		YP/AJ	Ok,M
9	Q3301-01MS	SOILMS	FD049834.D	08 Oct 2025 13:00	FD049832.D	YP/AJ	Ok,M
10	Q3301-01MSD	SOILMSD	FD049835.D	08 Oct 2025 13:43	FD049832.D!FD049834.D	YP/AJ	Ok,M
11	Q3301-01DL	SOILD	FD049836.D	08 Oct 2025 14:25	need further dilution	YP/AJ	Dilution
12	Q3301-01DL2	SOILD2	FD049837.D	08 Oct 2025 15:08		YP/AJ	Ok,M
13	I.BLK	I.BLK	FD049838.D	08 Oct 2025 16:35		YP/AJ	Ok
14	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049839.D	08 Oct 2025 17:18		YP/AJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/8/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:40
Out Date: 10/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137445

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3301-01	SOIL	1	1.15	10.77	11.92	9.87	81.0	
Q3302-01	OR-658-COMP-01	2	1.18	10.47	11.65	9.77	82.0	
Q3302-02	OR-658-VOC-01	3	1.18	10.51	11.69	10.12	85.1	
Q3302-03	OR-658-01	4	1.13	10.40	11.53	10.44	89.5	
Q3302-04	OR-658-02	5	1.13	10.72	11.85	10.36	86.1	
Q3302-05	OR-658-03	6	1.14	10.66	11.8	10.55	88.3	
Q3303-01	HL-WEST	7	1.13	10.38	11.51	10.67	91.9	
Q3303-02	HL-WEST-E2	8	1.11	10.29	11.4	10.7	93.2	
Q3303-03	HL-EAST	9	1.12	10.27	11.39	10.77	94.0	
Q3303-04	HL-EAST-E2	10	1.12	10.71	11.83	11.32	95.2	
Q3304-01	TR-04-100725	11	1.14	10.73	11.87	11.00	91.9	
Q3304-02	TR-04-100725-E2	12	1.12	10.13	11.25	10.14	89.0	
Q3304-03	TR-05-100725	13	1.13	10.26	11.39	10.9	95.2	
Q3304-04	TR-05-100725-E2	14	1.13	10.27	11.4	10.77	93.9	
Q3305-01	AU-06-100725	15	1.13	10.76	11.89	11.19	93.5	
Q3307-16	S-35 (0-0.5)	16	1.12	10.30	11.42	10.46	90.7	
Q3307-19	S-33 (0-0.5)	17	1.14	10.21	11.35	10.22	88.9	
Q3308-01	S-3 (6.0-6.5)	18	1.14	9.97	11.11	9.87	87.6	
Q3308-03	S-12 (6.0-6.5)	19	1.13	10.14	11.27	9.85	86.0	
Q3308-05	S-24 (9.0-9.5)	20	1.15	10.18	11.33	10.26	89.5	
Q3309-10	S-40 (0-0.5)	21	1.14	10.09	11.23	10.15	89.3	
Q3309-13	S-44 (0-0.5)	22	1.12	10.00	11.12	9.96	88.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

134415

WorkList Name : %1-100725 WorkList ID : 192318 Department : Wet-Chemistry Date : 10-07-2025 10:06:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3301-01	SOIL	Solid	Percent Solids	Cool 4 deg C	RONA02	D31	09/10/2025	Chemtech -SO
Q3302-01	OR-658-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3302-02	OR-658-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3302-03	OR-658-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3302-04	OR-658-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3302-05	OR-658-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3303-01	HL-WEST	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3303-02	HL-WEST-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3303-03	HL-EAST	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3303-04	HL-EAST-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3304-01	TR-04-100725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/07/2025	Chemtech -SO
Q3304-02	TR-04-100725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/07/2025	Chemtech -SO
Q3304-03	TR-05-100725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/07/2025	Chemtech -SO
Q3304-04	TR-05-100725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/07/2025	Chemtech -SO
Q3305-01	AU-06-100725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/07/2025	Chemtech -SO
Q3307-16	S-35(0-0.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-19	S-33(0-0.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3308-01	S-3(6.0-6.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/07/2025	Chemtech -SO
Q3308-03	S-12(6.0-6.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/07/2025	Chemtech -SO
Q3308-05	S-24(9.0-9.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/07/2025	Chemtech -SO
Q3309-10	S-40(0-0.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO

Date/Time 10/07/25 16:20
 Raw Sample Received by: JH wesc
 Raw Sample Relinquished by: JH wesc
 Date/Time 10/07/25
 Raw Sample Received by: JH wesc
 Raw Sample Relinquished by: JH wesc

WORKLIST(Hardcopy Internal Chain)

17137443

WorkList Name : %1-100725 WorkList ID : 192318 Department : Wet-Chemistry Date : 10-07-2025 10:06:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3309-13	S-44(0-0.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO

Date/Time 10/07/25 16:20
Raw Sample Received by: SP [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 10/07/25 17:35
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A

Matrix: Solid

Weight By: EH

Balance check: EH

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date: 10/07/2025

Extraction Start Time: 11:25

Extraction End Date: 10/07/2025

Extraction End Time: 18:35

Concentration By: EH

Supervisor By: ritesh

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standardized Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24918
Surrogate	1.0ML	100 PPM	PP24941
Fractionation Surrogate	1.0ML	100 PPM	PP24915
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2641
Baked Na2SO4	N/A	EP2646
Sand	N/A	E3951
Hexane	N/A	E3974
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

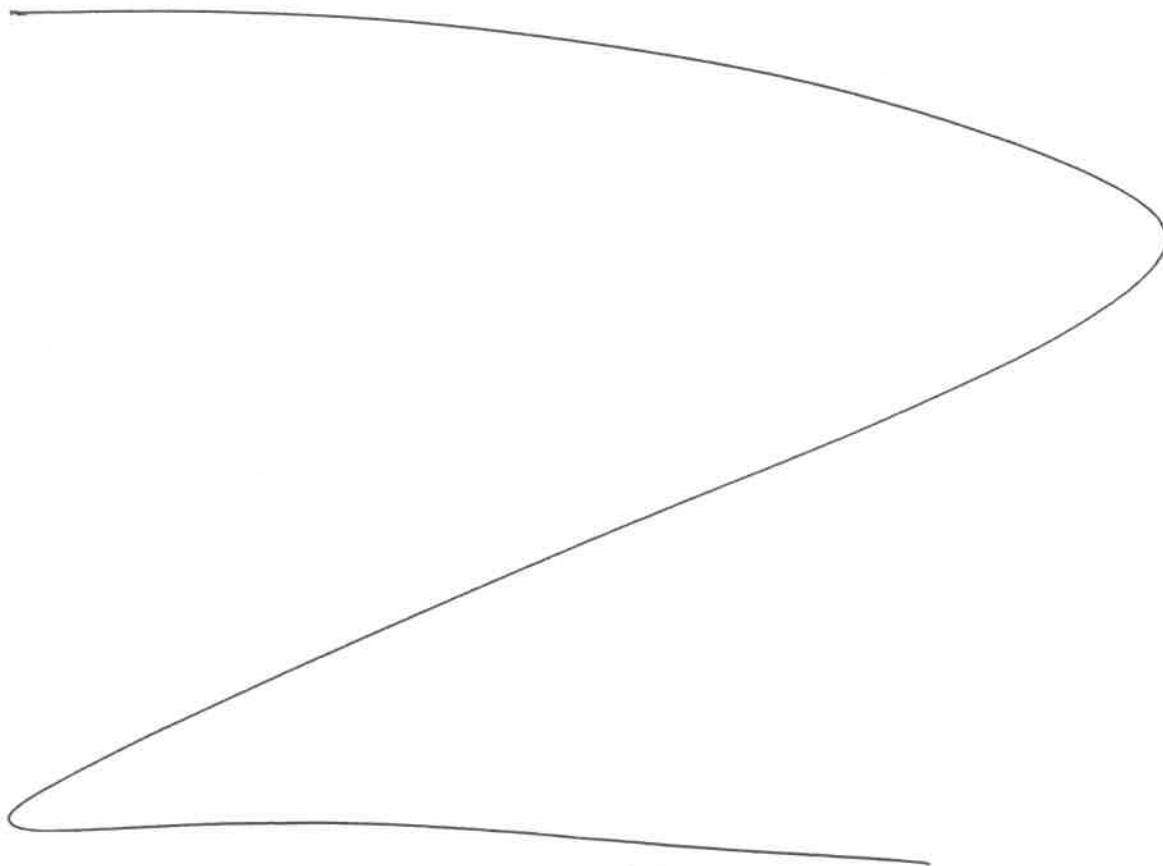
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/08/25	BS (EFT-1060)	10/8/25 RBC
8:50	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 10/07/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170011BL	PB170011BL	EPH	30.01	N/A	ritesh	ritesh	2			U1-1
PB170011BS	PB170011BS	EPH	30.03	N/A	ritesh	ritesh	2			2
PB170011BSD	PB170011BSD	EPH	30.02	N/A	ritesh	ritesh	2			3
Q3301-01	SOIL	EPH	30.09	N/A	ritesh	ritesh	2			4
Q3301-01DUP	SOILDUP	EPH	30.07	N/A	ritesh	ritesh	2			5
Q3301-01MS	SOILMS	EPH	30.02	N/A	ritesh	ritesh	2			6
Q3301-01MSD	SOILMSD	EPH	30.04	N/A	ritesh	ritesh	2			U3-1



RS
10/07

136011
11/09/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3301 WorkList ID : 192324 Department : Extraction Date : 10-07-2025 11:20:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3301-01	SOIL	Solid	EPH	Cool 4 deg C	RONA02	D31	09/10/2025	NJEPH

Date/Time 10/07/25 11:20
Raw Sample Received by: RS (FTH-1666)
Raw Sample Relinquished by: CP SM

Date/Time 10/07/25 11:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RS (FTH-1666)

Prep Standard - Chemical Standard Summary

Order ID : Q3301

Test : EPH

Prepbatch ID : PB170011,

Sequence ID/Qc Batch ID: FC100925AL,FD100825AR,

Standard ID :

EP2641,EP2646,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24915,PP24918,PP24941,PP
24954,PP24955,PP24956,PP24957,PP24958,PP24959,PP24960,PP24961,

Chemical ID :

E3875,E3951,E3956,E3964,E3966,E3972,E3973,E3974,P10760,P11137,P12364,P13280,P13281,P13620,P13690,P14
029,P14030,P14031,P14032,P14047,P14058,P14059,P14060,P14061,P14074,P14075,P14076,P14077,P14078,P1407
9,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,P14101,P14102,P14103,
P14147,P14148,P14149,P14150,W3234,

Extractions 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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel
09/16/2025								

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 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>
3923	Baked Sodium Sulfate	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2	None	Riteshkumar Patel
(EX-SC-2)								

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram



<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>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 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>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 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>
783	50 PPM Aliphatic HC STD	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 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>
784	20 PPM Aliphatic HC STD	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 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>
785	10 PPM Aliphatic HC STD	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 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>
786	5 PPM Aliphatic HC STD	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 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>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 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>
1331	100 PPM NJEPH Fractionating Surrogate	PP24915	08/28/2025	02/28/2026	Abdul Mirza	None	None	Yogesh Patel
								09/17/2025

FROM 1.25000ml of P14058 + 1.25000ml of P14059 + 1.25000ml of P14060 + 1.25000ml of P14061 + 195.00000ml of E3966 = Final Quantity: 200.000 ml



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

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

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

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>
782	100 PPM Aromatic HC Working STD	PP24954	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.25000ml of P14150 + 0.62500ml of P14047 + 1.25000ml of P10760 + 22.87500ml of E3964 = Final Quantity: 25.000 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>
2945	100 PPM Aromatic HC Working STD (Absolute)	PP24955	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.25000ml of P14150 + 0.62500ml of P14047 + 1.25000ml of P11137 + 22.87500ml of E3964 = Final Quantity: 25.000 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>
787	50 PPM Aromatic HC STD	PP24956	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.50000ml of E3973 + 0.50000ml of PP24954 = Final Quantity: 1.000 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>
788	20 PPM Aromatic HC STD	PP24957	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.80000ml of E3973 + 0.20000ml of PP24954 = Final Quantity: 1.000 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>
789	10 PPM Aromatic HC STD	PP24958	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.90000ml of E3973 + 0.10000ml of PP24954 = Final Quantity: 1.000 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>
790	5 PPM Aromatic HC STD	PP24959	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.90000ml of E3973 + 0.10000ml of PP24956 = Final Quantity: 1.000 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>
2946	20 PPM Aromatic HC STD ICV (Absolute)	PP24960	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.80000ml of E3973 + 0.20000ml of PP24955 = Final Quantity: 1.000 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>
788	20 PPM Aromatic HC STD	PP24961	10/02/2025	03/24/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.80000ml of E3973 + 0.20000ml of PP24954 = Final Quantity: 1.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	08/14/2025 / RUPESH	03/06/2025 / RUPESH	E3964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0172403	04/02/2026	10/02/2025 / yogesh	06/17/2021 / dhaval	P10760

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM	060420	03/31/2026	01/08/2024 / yogesh	10/29/2021 / Abdul	P11137

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14031

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	03/31/2031	06/30/2025 / Abdul	06/09/2025 / anahy	P14047

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14060

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14061

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14075

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14076

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14078

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14079

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14080

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14083

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14095

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14099

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14101

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14150

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P10758
TO
P10762
- (S)

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene CAS # 526-73-8 (Lot 8776.10-36) Purity 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL Gravimetric +/- 90.5449 µg/mL Unstressed +/- 100.4678 µg/mL Stressed
2	Naphthalene CAS # 91-20-3 (Lot MKBZ8680V) Purity 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL Gravimetric +/- 90.3656 µg/mL Unstressed +/- 100.2689 µg/mL Stressed
3	2-Methylnaphthalene CAS # 91-57-6 (Lot STBG8884) Purity 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL Gravimetric +/- 90.4557 µg/mL Unstressed +/- 100.3688 µg/mL Stressed
4	Acenaphthylene CAS # 208-96-8 (Lot N19U) Purity 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL Gravimetric +/- 90.2125 µg/mL Unstressed +/- 100.0989 µg/mL Stressed
5	Acenaphthene CAS # 83-32-9 (Lot MKCN0610) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 90.0953 µg/mL Unstressed +/- 99.9689 µg/mL Stressed
6	Fluorene CAS # 86-73-7 (Lot 10217947) Purity 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL Gravimetric +/- 90.8161 µg/mL Unstressed +/- 100.7687 µg/mL Stressed
7	Phenanthrene CAS # 85-01-8 (Lot MKCL7390) Purity 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL Gravimetric +/- 90.6359 µg/mL Unstressed +/- 100.5688 µg/mL Stressed

8	Anthracene			2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS #	120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity	99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene			2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS #	206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity	99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene			2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS #	129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity	99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene			2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS #	56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity	98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS #	218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity	99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene			2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS #	205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity	97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene			2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS #	207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity	99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene			2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS #	50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity	99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene			2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS #	193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity	99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene			2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS #	53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity	99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene			2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS #	191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity	99%				+/-	100.1189	µg/mL	Stressed
Solvent:	Methylene chloride								
	CAS #	75-09-2							
	Purity	99%							

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

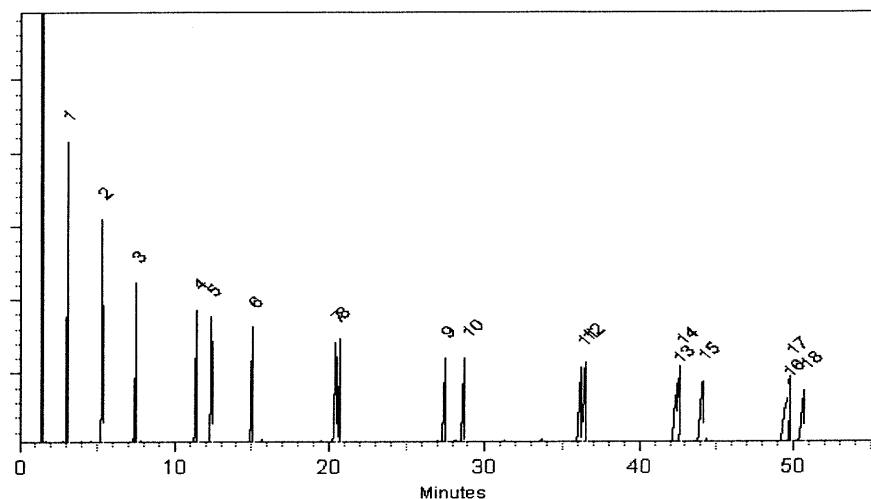
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

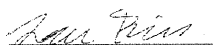
Inj. Temp:
250°C

Det. Temp:
330°C

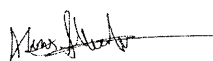
Det. Type:
FID



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


Lane Kibe - Mix Technician

Date Mixed: 14-May-2021 Balance: B345965662


Alexis Shelow - Operations Tech I

Date Passed: 18-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantors™**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/16/25

E3956



Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on .

E 3964

Jamie Croak
Director Quality Operations, Bioscience Production

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3966

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060
Weight(s) shown below were combined and diluted to (mL): 500.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.058

Solvent(s): Methylene chloride
Lot# 104923

Formulated By:	Benson Chan	060420
Reviewed By:	Pedro L. Renteria	060420
		DATE

Compound	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
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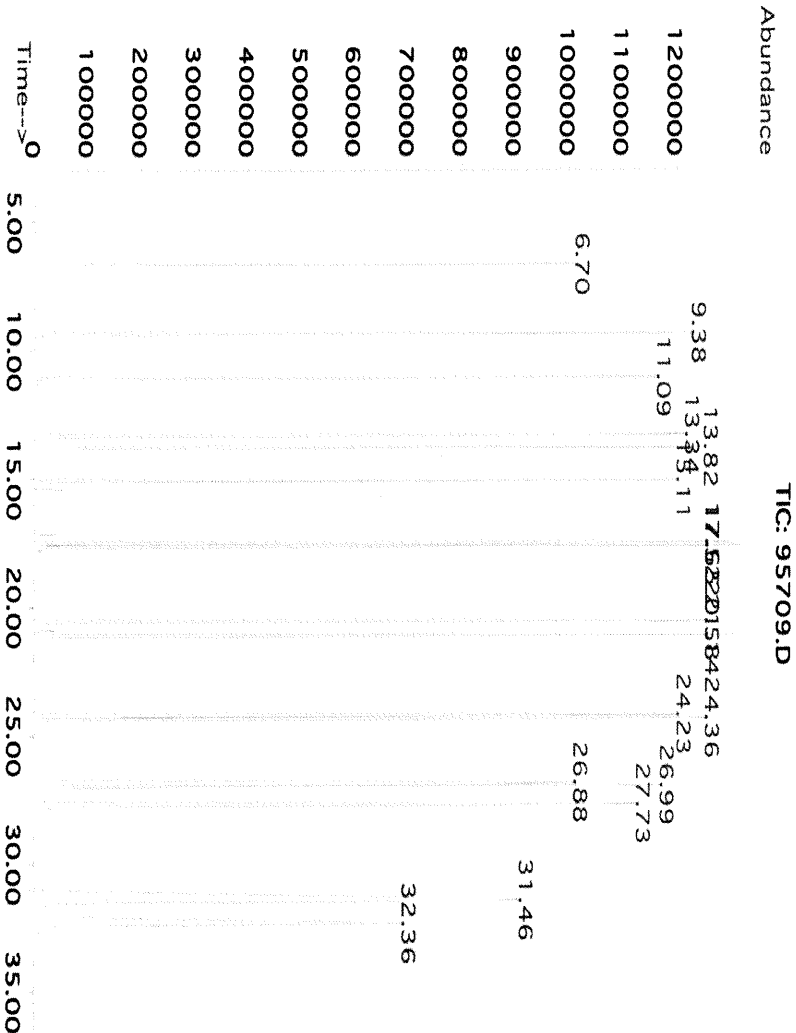
1. Acenaphthene	1	MKB14871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ip-tral 600mg/kg
2. Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-6	N/A	N/A
3. Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8h)	ip-trus 430mg/kg
4. Benz(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5. Benz(e)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8h)	scu-tral 50mg/kg
6. Benz(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7. Benz(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8. Benz(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9. Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10. Dibenz(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11. Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	of-tral 2000mg/kg
12. Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ip-trus 2 g/kg
13. Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14. 2-Methylnaphthalene	214	MKB13783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	of-tral 1630mg/kg
15. Naphthalene	222	MKB28690V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8h)	of-tral 490mg/kg
16. Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8h	of-trus 700mg/kg
17. Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8h	of-tral 2700mg/kg
18. 1,2,3-trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N., and Kuyat, C.F., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

P11137
P11141
11/10/21



Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

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

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 59.9753	µg/mL Gravimetric Unstressed Stressed

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/-	11.7645	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent: Hexane/Carbon disulfide (80:20)							
	CAS # 110-54-3/75-15-0						
	Purity 99%						

Column:
30m x 0.25mm x 0.25µm
Pxx-5 (cat.#10223)

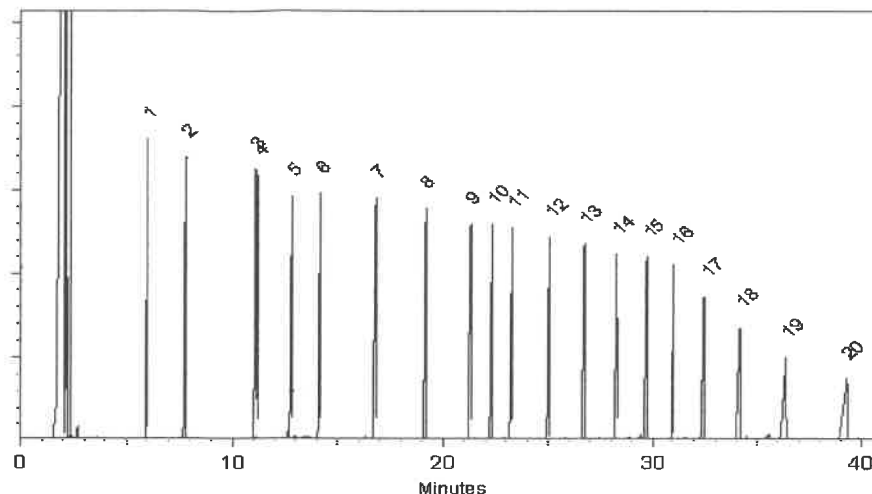
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

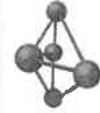
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

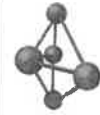
P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
																CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ /8H)	or-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ /8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
																(Solvent Safety Info. On Attached pg.)	
																OSHA PEL (TWA)	
																CAS#	
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	589-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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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. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

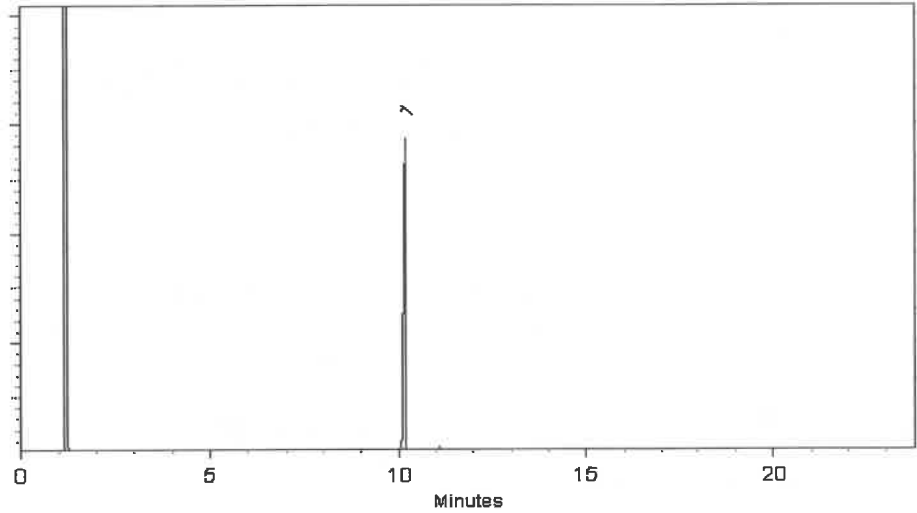
FID

Split Vent:

10 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.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-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/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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.



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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. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

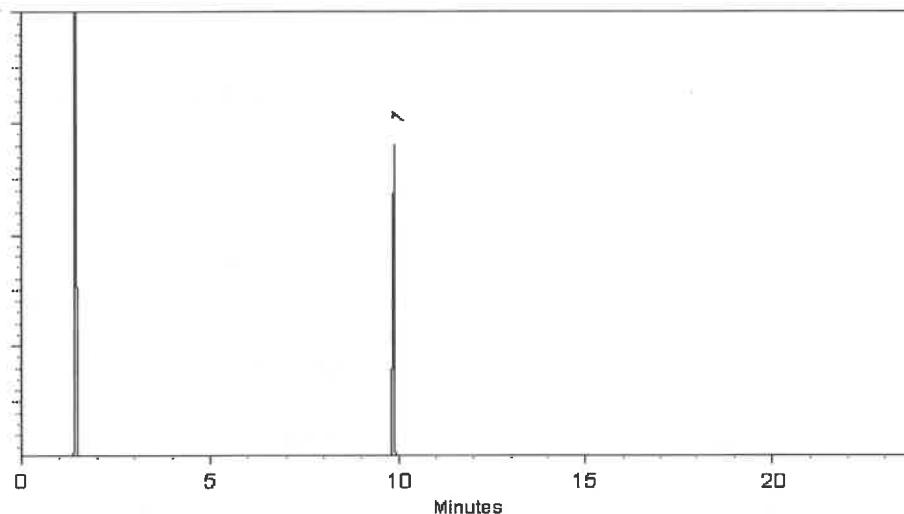
FID

Split Vent:

10 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.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-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.



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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. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

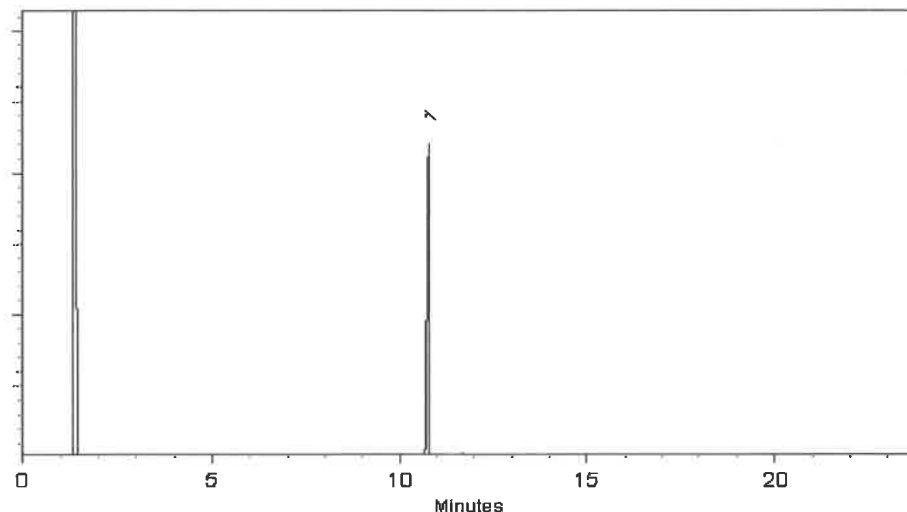
FID

Split Vent:

10 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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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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. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P14028
↓
P14042
RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

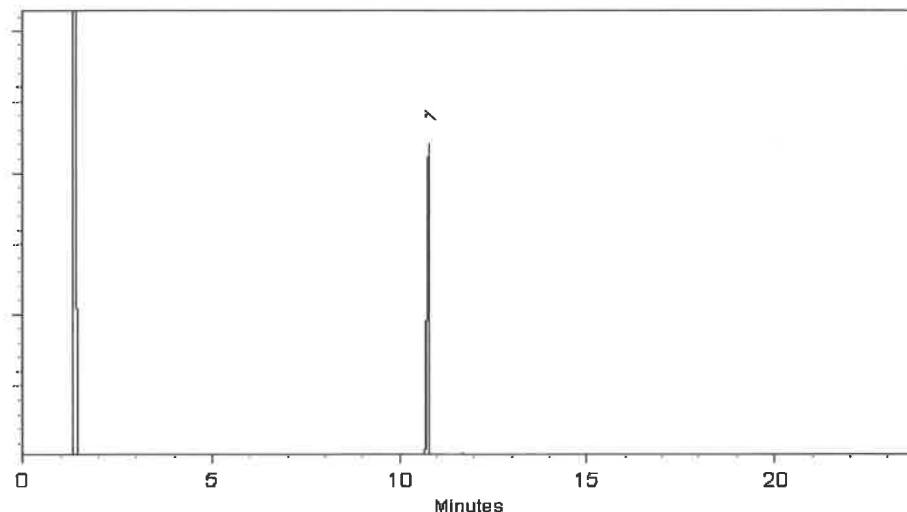
FID

Split Vent:

10 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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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CERTIFIED REFERENCE MATERIAL

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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. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

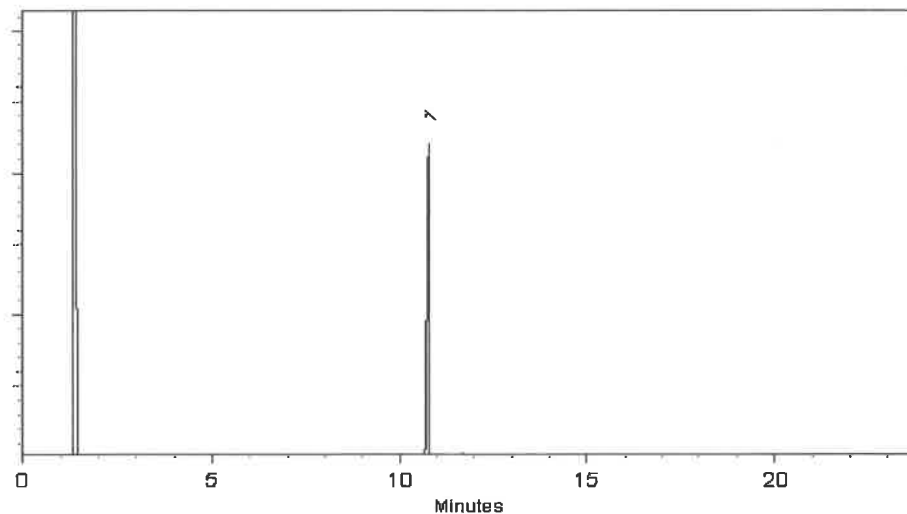
FID

Split Vent:

10 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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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Fax: 1-814-353-1309

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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. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

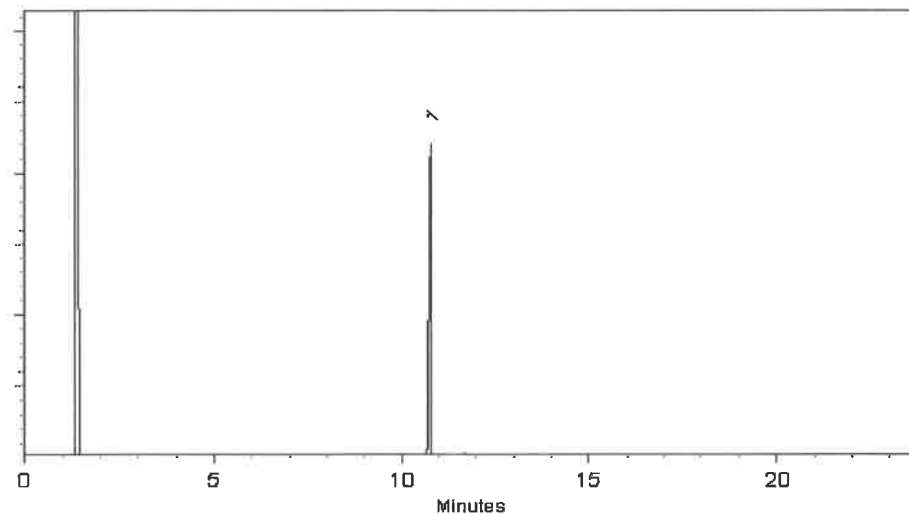
FID

Split Vent:

10 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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015
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Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0221895
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2031 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059
↓
P14062 } AC
6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0221895
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2031 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059
↓
P14062 } AC
6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0221895

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059
↓
P14062 } AC
6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

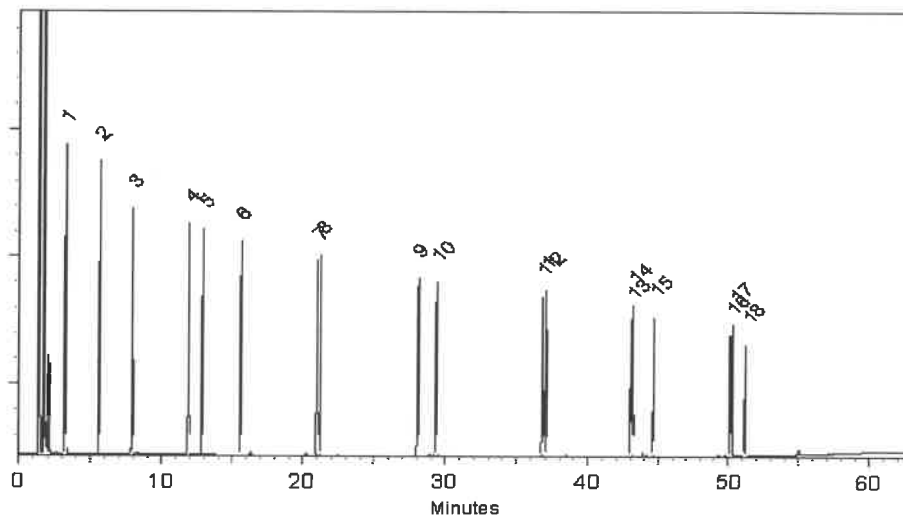
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

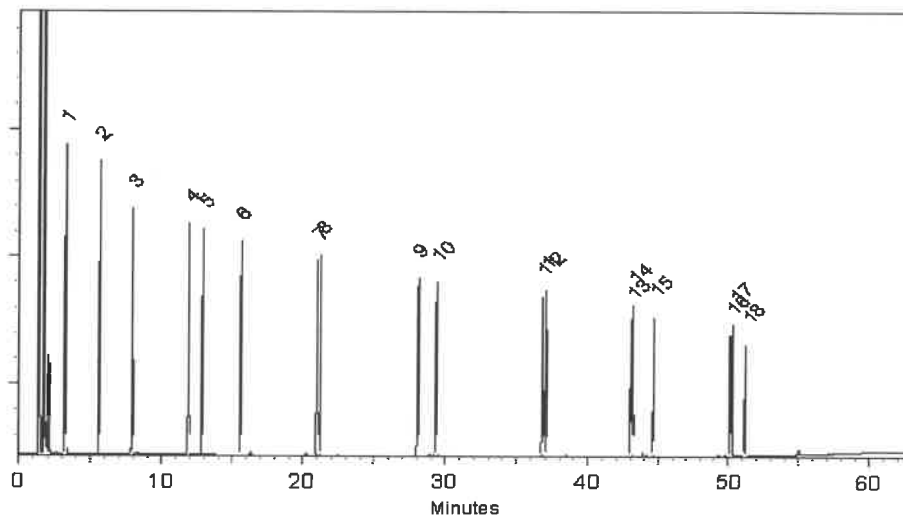
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

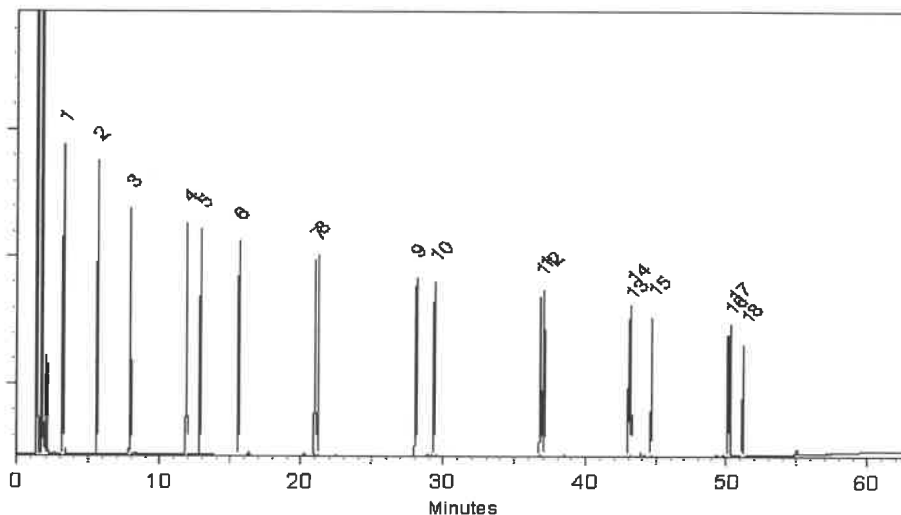
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

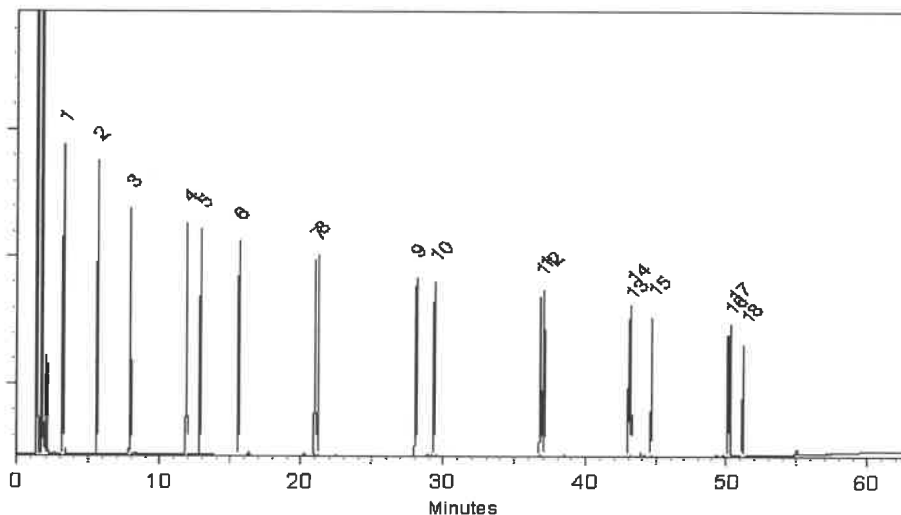
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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

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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

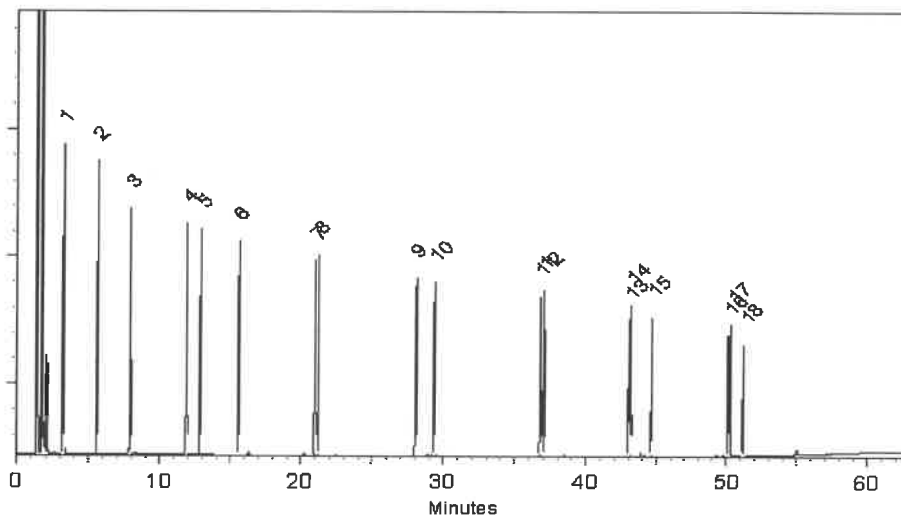
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Certificate of Analysis

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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

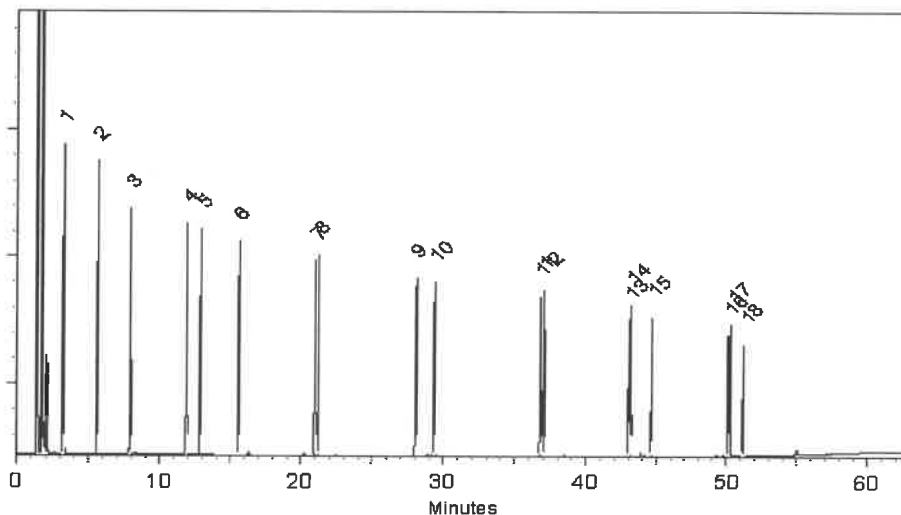
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Bellefonte, PA 16823-8812
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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

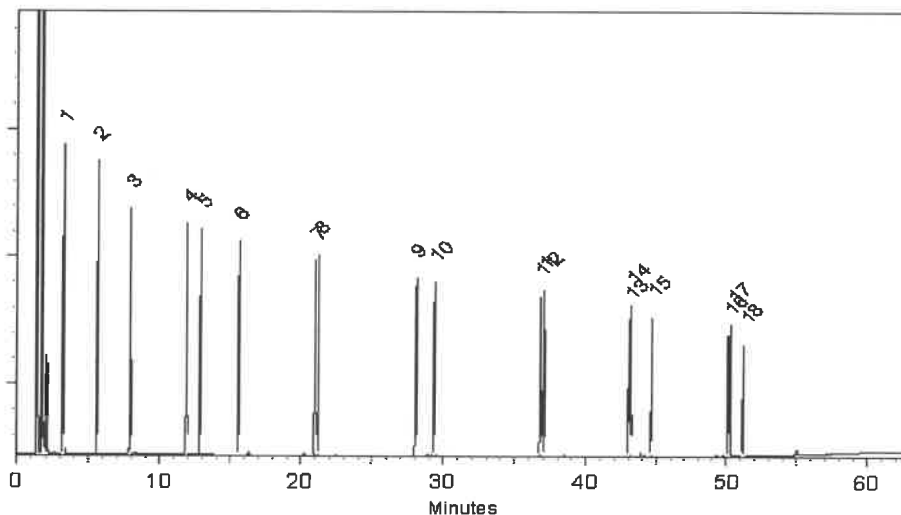
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Bellefonte, PA 16823-8812
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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

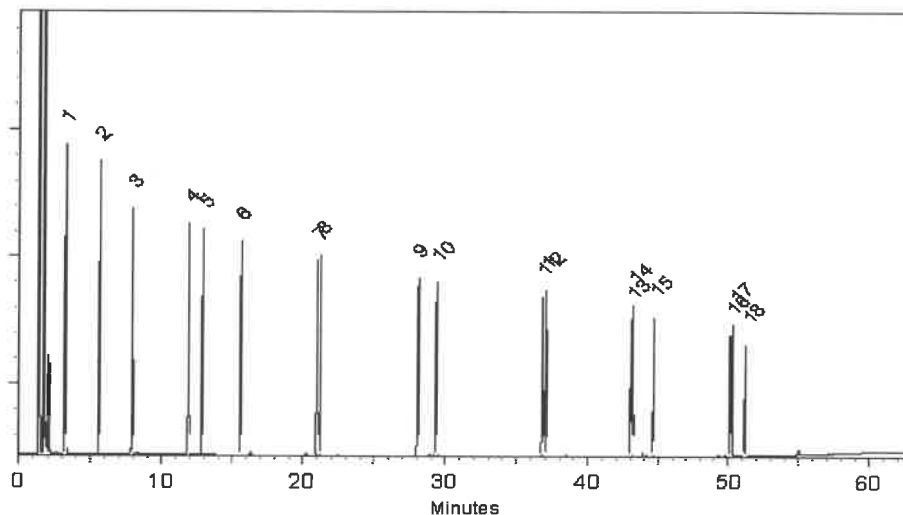
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

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18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

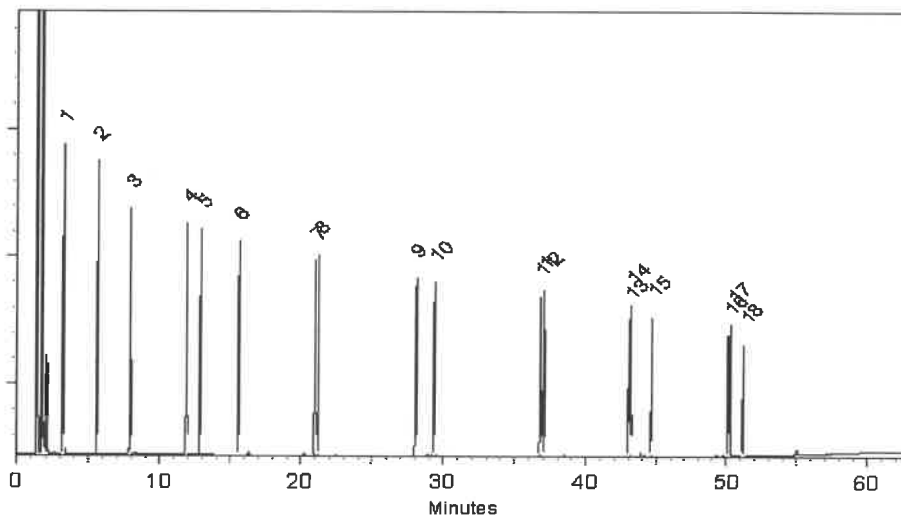
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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

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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. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

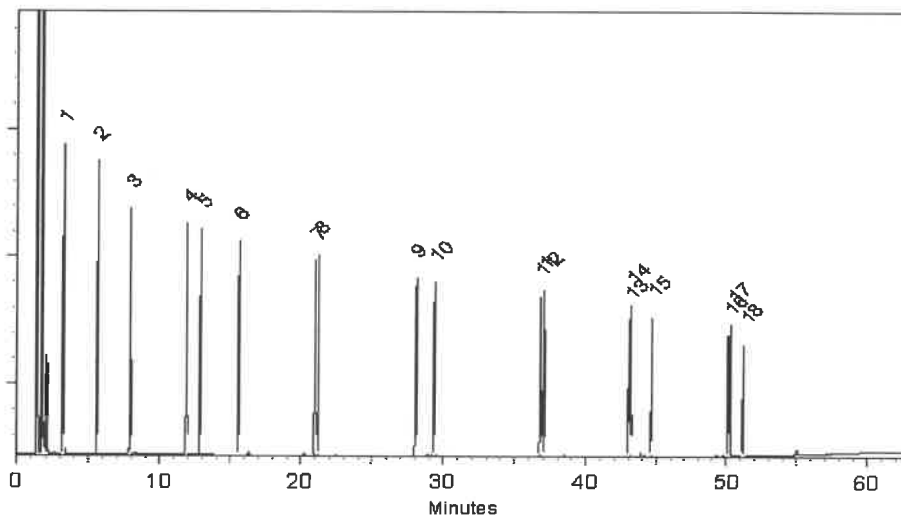
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

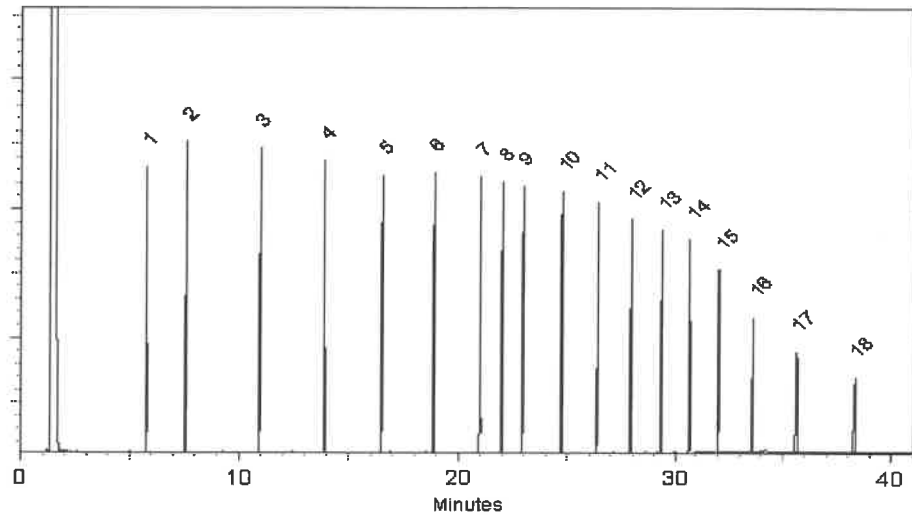
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

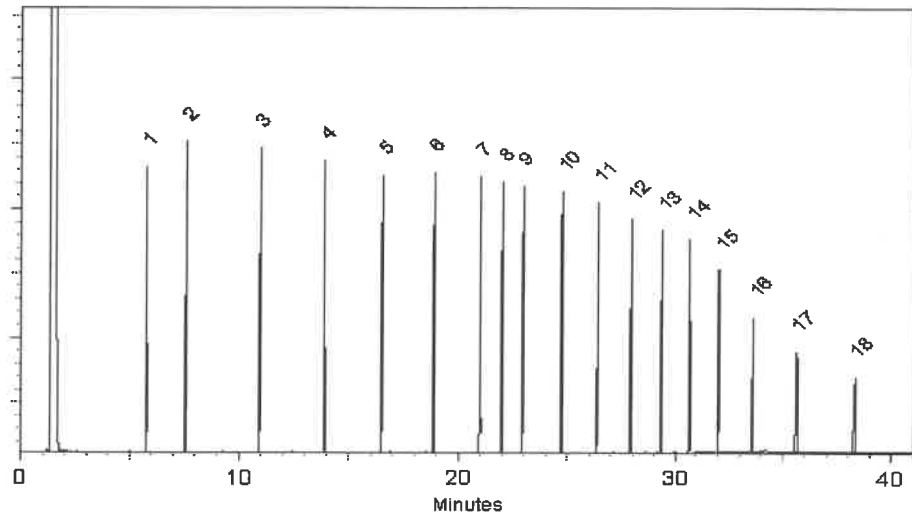
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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Certificate #FM 80397



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

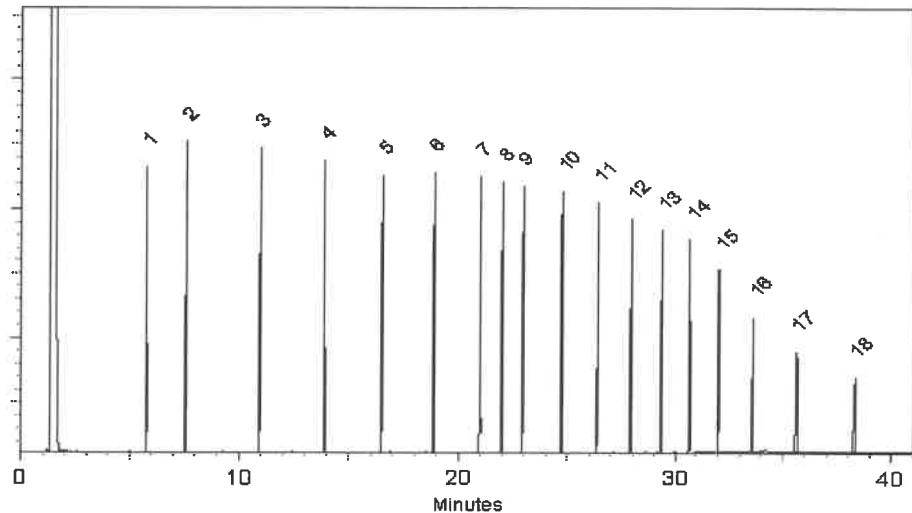
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

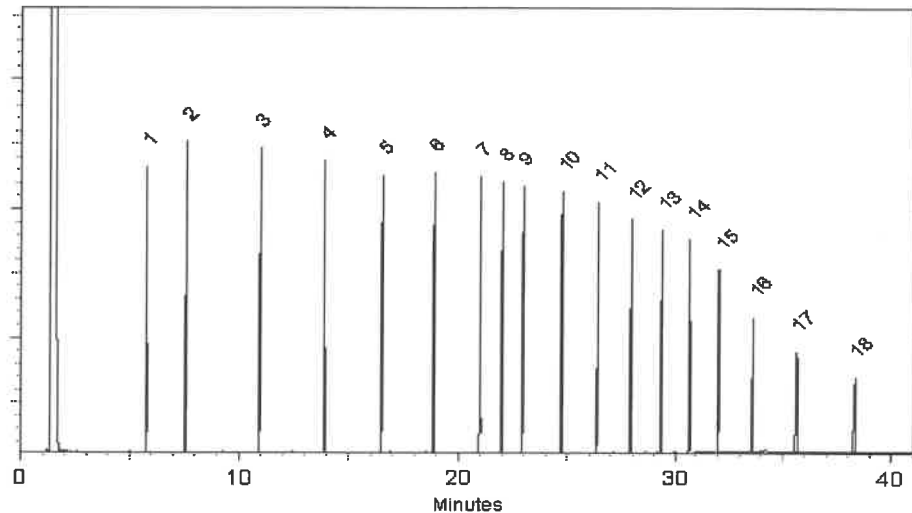
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

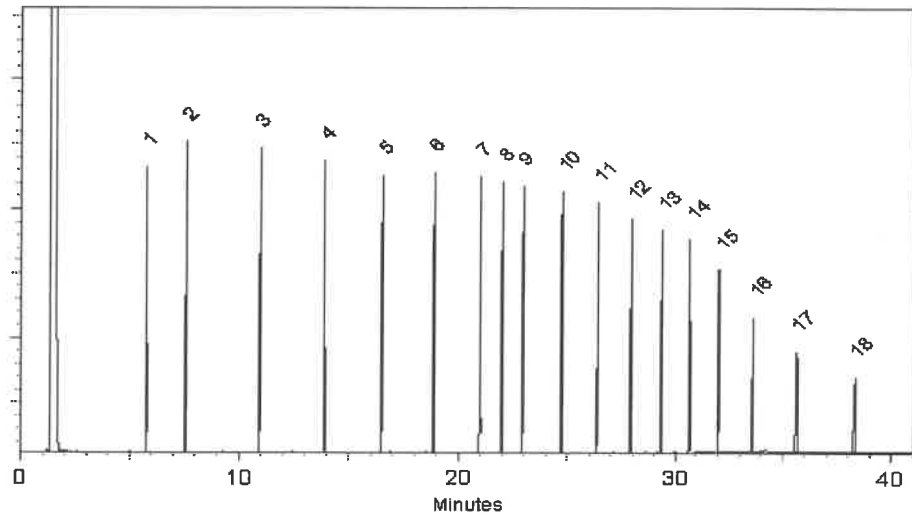
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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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. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
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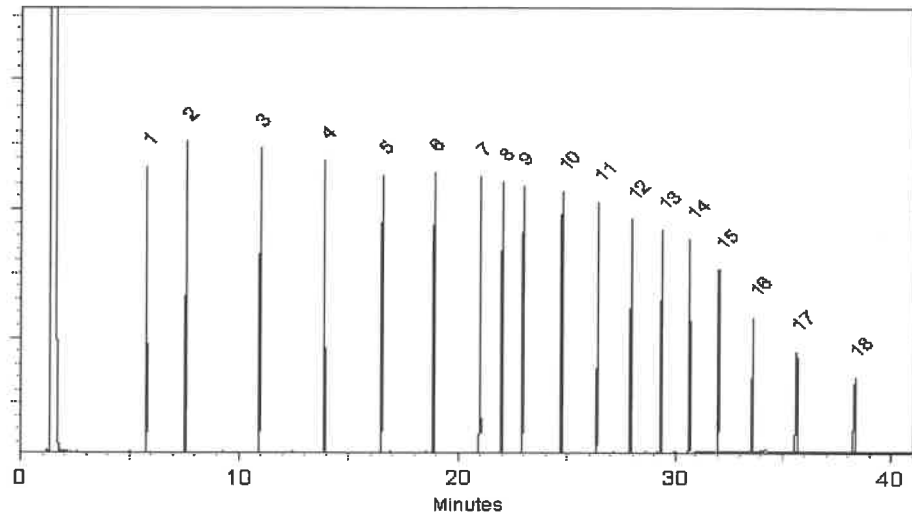
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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P14094
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P14103 } AC
7/16/25

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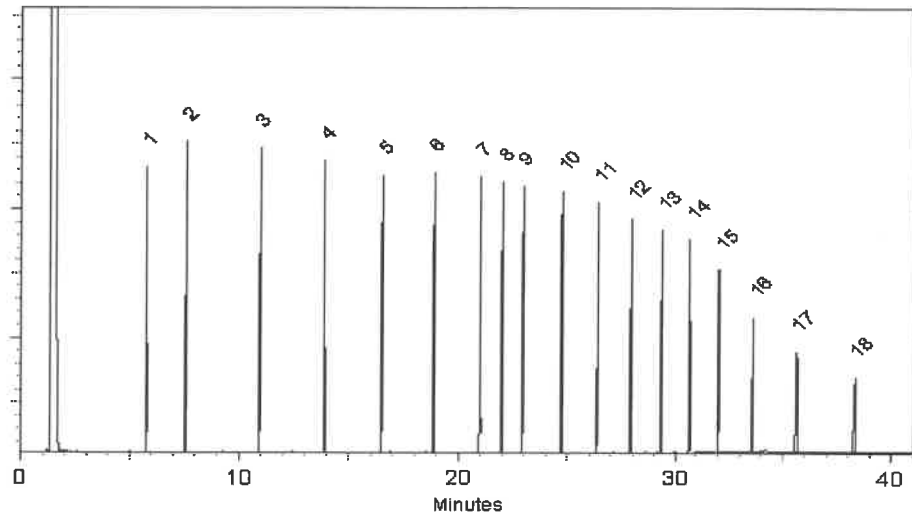
Inj. Temp:
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Det. Temp:
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Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
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P14103 } AC
7/16/25

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Column:
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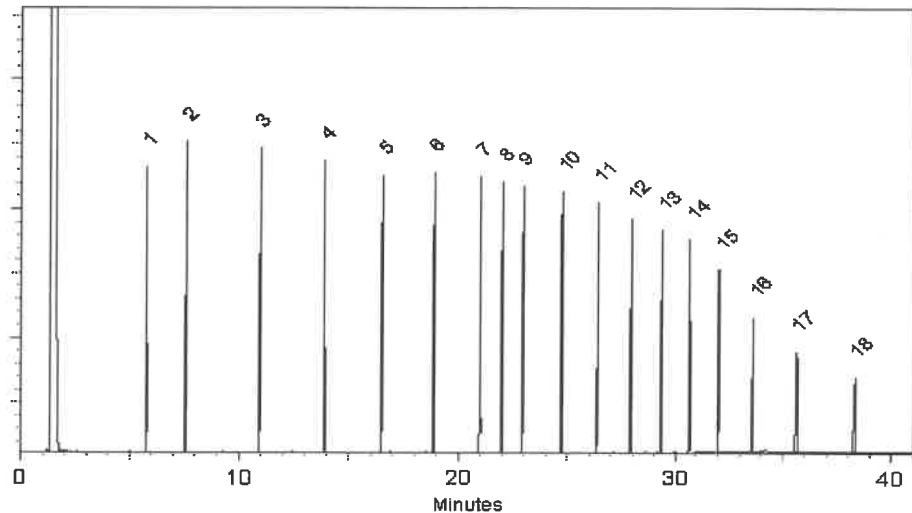
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015
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NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

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P14094
↓
P14103 } AC
7/16/25

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Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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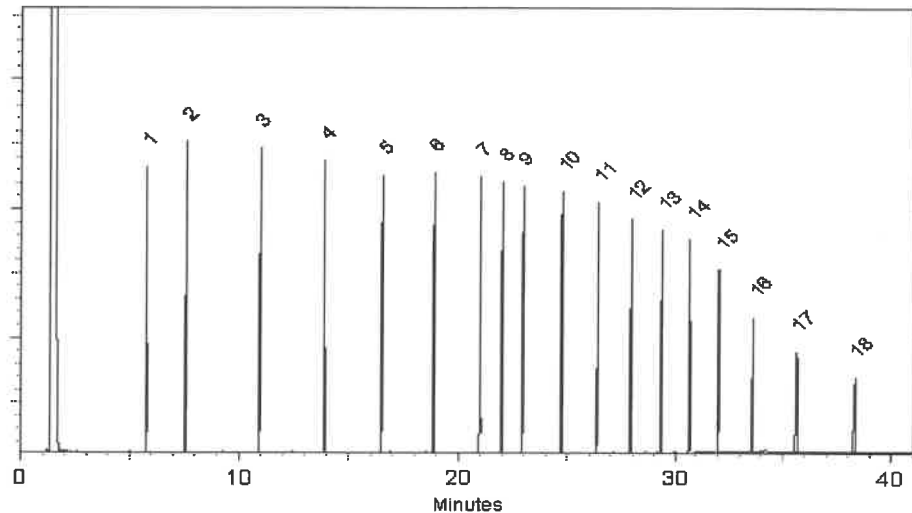
Inj. Temp:
250°C

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Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

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P14094
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P14103 } AC
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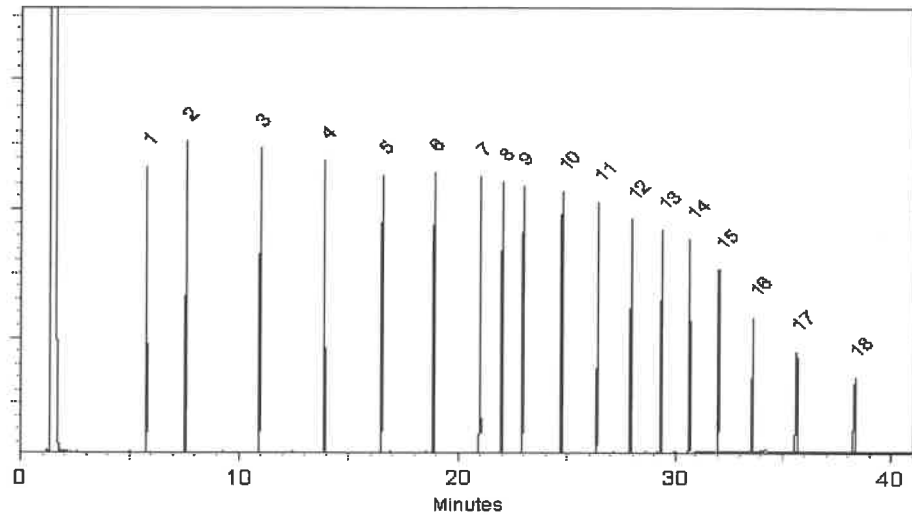
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Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantor**™



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 JB
OP4421. 07/28/2025

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q3301

COC Number:

CLIENT INFORMATION

COMPANY: Ronald Adams
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: 19 Ashlynn Court
PROJECT #: LOCATION:
PROJECT MANAGER: Ronald Adams
E-MAIL:
PHONE: FAX:

BILLING INFORMATION

BILL TO: PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS*
HARD COPY: DAYS*
EDD DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

ANALYSIS

EPH	GRO								
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles									
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9
1.	Soil	Soil			9/10	/	1	x	+							
2.																
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	10/6/25	1. yg 16:30
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2. yg
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0
MeOH extraction requires an additional 4oz. Jar for percent solid
Comments:

☐ Ice in Cooler?:

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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