CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG No.: BM053124

Instrument ID: BNA_M Calibration Date/Time: 5/31/2024 12 13:09

Lab File ID: BM045795.D Init. Calib. Date(s):

EPA Sample No.: SICV040 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.571	0.517	0.010	-9.4645	40.0
Benzaldehyde	0.799	1.055	0.010	32.0396	40.0
Pyridine	1.364	1.172	0.010	-14.0854	40.0
Phenol	1.762	1.797	0.080	1.9645	20.0
Bis(2-Chloroethyl)ether	1.471	1.491	0.100	1.3906	20.0
2-Chlorophenol	1.337	1.390	0.200	3.9454	20.0
2-Methylphenol	1.290	1.283	0.010	-0.5807	20.0
2,2-oxybis(1-Chloropropane)	2.897	2.943	0.010	1.5994	40.0
Acetophenone	2.139	2.308	0.060	7.8937	20.0
4-Methylphenol	1.335	1.415	0.010	6.0067	20.0
N-Nitroso-di-n-propylamine	1.182	1.233	0.050	4.3364	30.0
Hexachloroethane	0.642	0.643	0.100	0.1867	20.0
Nitrobenzene	0.438	0.450	0.050	2.8339	25.0
Isophorone	0.773	0.780	0.050	0.904	25.0
2-Nitrophenol	0.173	0.188	0.050	8.3992	25.0
2,4-Dimethylphenol	0.351	0.302	0.050	-14.0502	25.0
Bis(2-Chloroethoxy)methane	0.469	0.471	0.050	0.3057	20.0
2,4-Dichlorophenol	0.296	0.320	0.060	8.3751	20.0
Naphthalene	1.066	1.100	0.200	3.1086	20.0
4-Chloroaniline	0.401	0.428	0.010	6.5939	40.0
Hexachlorobutadiene	0.203	0.209	0.040	3.1265	30.0
Caprolactam	0.083	0.088	0.010	6.0208	40.0
4-Chloro-3-methylphenol	0.321	0.340	0.040	6.0873	25.0
1-Methylnaphthalene	0.706	0.692	0.100	-2.0418	20.0
2-Methylnaphthalene	0.706	0.742	0.100	5.0015	20.0
Hexachlorocyclopentadiene	0.364	0.276	0.010	-23.9668	40.0
2,4,6-Trichlorophenol	0.348	0.372	0.090	6.8038	25.0
2,4,5-Trichlorophenol	0.378	0.414	0.100	9.5702	25.0
1,1-Biphenyl	1.484	1.577	0.200	6.2916	20.0
2-Chloronaphthalene	1.163	1.202	0.300	3.3563	20.0
2-Nitroaniline	0.397	0.415	0.050	4.4182	40.0
Dimethylphthalate	1.406	1.459	0.300	3.7799	20.0
2,6-Dinitrotoluene	0.270	0.302	0.080	11.5123	30.0
Acenaphthylene	1.861	1.948	0.400	4.6896	20.0
3-Nitroaniline	0.248	0.307	0.010	23.6335	40.0
Acenaphthene	1.242	1.228	0.200	-1.1131	20.0
2,4-Dinitrophenol	0.123	0.104	0.010	-15.6961	40.0
4-Nitrophenol	0.247	0.258	0.010	4.8023	40.0
Dibenzofuran	1.675	1.777	0.300	6.1168	20.0

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG No.: BM053124

Instrument ID: BNA_M Calibration Date/Time: 5/31/2024 12 13:09

Lab File ID: BM045795.D Init. Calib. Date(s):

EPA Sample No.: SICV040 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
2,4-Dinitrotoluene	0.374	0.399	0.070	6.5699	30.0
Diethylphthalate	1.408	1.460	0.300	3.6804	20.0
Fluorene	1.349	1.395	0.200	3.3644	20.0
4-Chlorophenyl-phenylether	0.670	0.686	0.100	2.45	20.0
4-Nitroaniline	0.206	0.287	0.010	38.9264	40.0
4,6-Dinitro-2-methylphenol	0.112	0.111	0.010	-0.9173	40.0
N-Nitrosodiphenylamine	0.567	0.610	0.050	7.7126	20.0
1,2,4,5-Tetrachlorobenzene	0.599	0.645	0.100	7.624	20.0
4-Bromophenyl-phenylether	0.209	0.214	0.070	2.7601	20.0
Hexachlorobenzene	0.231	0.237	0.050	2.6378	25.0
Atrazine	0.172	0.186	0.010	8.1929	25.0
Pentachlorophenol	0.117	0.117	0.010	-0.3028	40.0
Phenanthrene	1.054	1.081	0.200	2.6063	20.0
Pentachlorobenzene	0.290	0.295	0.050	1.7869	20.0
Anthracene	1.053	1.088	0.200	3.3329	20.0
1,2,3,4-Tetrachlorobenzene	0.310	0.326	0.050	5.0701	20.0
Carbazole	0.898	0.979	0.050	9.0571	40.0
Di-n-butylphthalate	1.181	1.254	0.500	6.1305	25.0
Fluoranthene	1.508	1.494	0.400	-0.8954	25.0
Pyrene	1.549	1.564	0.400	0.9666	25.0
Butylbenzylphthalate	0.631	0.647	0.100	2.5476	40.0
3,3-Dichlorobenzidine	0.395	0.475	0.010	20.1481	40.0
Benzo(a)anthracene	1.381	1.403	0.300	1.582	30.0
Chrysene	1.278	1.340	0.200	4.927	30.0
Bis(2-ethylhexyl)phthalate	0.938	0.976	0.200	4.0473	40.0
Di-n-octyl phthalate	1.530	1.496	0.010	-2.1894	40.0
Benzo(b)fluoranthene	1.229	1.286	0.200	4.6383	25.0
Benzo(k)fluoranthene	1.201	1.237	0.200	3.0136	25.0
Benzo(a)pyrene	1.080	1.166	0.200	7.979	20.0
Indeno(1,2,3-cd)pyrene	1.179	1.324	0.200	12.2463	25.0
Dibenzo(a,h)anthracene	0.933	1.050	0.200	12.5277	30.0
Benzo(g,h,i)perylene	1.039	1.088	0.200	4.7542	30.0
2,3,4,6-Tetrachlorophenol	0.286	0.337	0.040	17.774	20.0
1,4-Dioxane-d8	0.516	0.491	0.010	-4.7492	25.0
Pyridine-d5	1.328	1.260	0.010	-5.1278	40.0
Phenol-d5	1.699	1.757	0.010	3.4371	25.0
Bis-(2-Chloroethyl)ether-d8	1.220	1.406	0.050	15.2459	25.0
2-Chlorophenol-d4	1.269	1.381	0.200	8.8296	20.0
4-Methylphenol-d8	1.284	1.372	0.010	6.8467	20.0

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG No.: BM053124

Instrument ID: BNA_M Calibration Date/Time: 5/31/2024 12 13:09

Lab File ID: BM045795.D Init. Calib. Date(s):

EPA Sample No.: SICV040 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Nitrobenzene-d5	0.156	0.171	0.050	9.224	20.0
2-Nitrophenol-d4	0.158	0.177	0.050	11.6148	30.0
2,4-Dichlorophenol-d3	0.297	0.332	0.060	11.9567	20.0
4-Chloroaniline-d4	0.411	0.466	0.010	13.4663	40.0
Dimethylphthalate-d6	1.385	1.529	0.300	10.4129	20.0
Acenaphthylene-d8	1.608	1.780	0.400	10.685	20.0
4-Nitrophenol-d4	0.299	0.313	0.010	4.7179	40.0
Fluorene-d10	1.181	1.288	0.100	9.0427	20.0
4,6-Dinitro-2-methylphenol-d2	0.102	0.105	0.010	3.1346	40.0
Anthracene-d10	0.869	0.970	0.300	11.5557	20.0
Pyrene-d10	1.244	1.328	0.300	6.7412	25.0
Benzo(a)pyrene-d12	0.935	1.052	0.010	12.4943	20.0

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:		SDG No.:	
Lab Sample ID:		Matrix:	
Analytical Method:			
Sample Wt/Vol:	Units:	Final Vol:	
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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Hit Summary Sheet
SW-846

SDG No.: BM053124

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :							

Total Concentration:

CHEMTECH

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG No.: BM053124

Instrument ID: Calibration Date(s): 5/31/2024

Calibration Time(s): 09:07

LAB FILE ID: RRFAL1 = BM045789.D RRFAL2 = BM045790.D RRFAL3 = BM045791.D
RRFAL4 = BM045792.D RRFAL5 = BM045793.D RRFAL6 = BM045794.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.574	0.543	0.639	0.554	0.545		0.571	7.0
Benzaldehyde		0.996	0.567	1.012	0.819	0.602	0.799	26.3
Pyridine		1.104	1.449	1.434	1.431	1.403	1.364	10.7
Hexachloroethane	0.597	0.610	0.728	0.644	0.631		0.642	8.0
Nitrobenzene	0.398	0.427	0.500	0.435	0.428		0.438	8.6
Isophorone	0.685	0.732	0.878	0.793	0.779		0.773	9.4
2-Nitrophenol	0.146	0.160	0.195	0.179	0.184		0.173	11.4
2,4-Dimethylphenol	0.327	0.320	0.404	0.354	0.350		0.351	9.4
Bis(2-Chloroethoxy)methane	0.429	0.449	0.530	0.468	0.471		0.469	8.1
2,4-Dichlorophenol	0.264	0.275	0.339	0.302	0.298		0.296	9.9
Naphthalene	1.023	1.032	1.200	1.047	1.030		1.066	7.0
4-Chloroaniline		0.389	0.445	0.414	0.391	0.368	0.401	7.3
Hexachlorobutadiene	0.195	0.192	0.226	0.199	0.201		0.203	6.7
Phenol		1.653	2.020	1.721	1.731	1.686	1.762	8.4
Caprolactam		0.066	0.085	0.092	0.086	0.087	0.083	12.1
4-Chloro-3-methylphenol	0.276	0.302	0.362	0.338	0.326		0.321	10.3
1-Methylnaphthalene	0.670	0.688	0.794	0.701	0.677		0.706	7.2
2-Methylnaphthalene	0.673	0.686	0.789	0.700	0.684		0.706	6.7
Hexachlorocyclopentadiene		0.307	0.380	0.355	0.390	0.386	0.364	9.4
2,4,6-Trichlorophenol	0.277	0.309	0.390	0.372	0.394		0.348	15.1
2,4,5-Trichlorophenol	0.312	0.346	0.419	0.400	0.415		0.378	12.5
1,1-Biphenyl	1.400	1.428	1.663	1.455	1.474		1.484	7.0
2-Chloronaphthalene	1.102	1.123	1.295	1.137	1.157		1.163	6.6
2-Nitroaniline	0.319	0.358	0.443	0.434	0.431		0.397	14.0
Bis(2-Chloroethyl)ether		1.385	1.699	1.440	1.457	1.374	1.471	9.0
Dimethylphthalate	1.301	1.334	1.547	1.457	1.390		1.406	7.0
2,6-Dinitrotoluene	0.223	0.240	0.298	0.295	0.297		0.270	13.3
Acenaphthylene	1.733	1.811	2.080	1.859	1.822		1.861	7.0
3-Nitroaniline		0.217	0.221	0.285	0.262	0.255	0.248	11.6
Acenaphthene	1.166	1.208	1.385	1.237	1.213		1.242	6.8
2,4-Dinitrophenol		0.098	0.090	0.119	0.139	0.171	0.123	26.5
4-Nitrophenol		0.205	0.263	0.271	0.248	0.246	0.247	10.4
Dibenzofuran	1.611	1.652	1.865	1.663	1.582		1.675	6.6
2,4-Dinitrotoluene	0.296	0.339	0.418	0.424	0.395		0.374	14.7
Diethylphthalate	1.250	1.318	1.566	1.500	1.406		1.408	9.2
2-Chlorophenol	1.219	1.284	1.534	1.331	1.318		1.337	8.8

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG No.: BM053124

Instrument ID: Calibration Date(s): 5/31/2024

Calibration Time(s): 09:07

LAB FILE ID: RRFAL1 = BM045789.D RRFAL2 = BM045790.D RRFAL3 = BM045791.D
RRFAL4 = BM045792.D RRFAL5 = BM045793.D RRFAL6 = BM045794.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.288	1.312	1.512	1.371	1.264		1.349	7.4
4-Chlorophenyl-phenylether	0.644	0.651	0.748	0.673	0.632		0.670	6.9
4-Nitroaniline		0.194	0.168	0.253	0.212	0.205	0.206	15.0
4,6-Dinitro-2-methylphenol		0.086	0.117	0.116	0.119	0.122	0.112	13.0
N-Nitrosodiphenylamine	0.534	0.554	0.643	0.551	0.551		0.567	7.6
1,2,4,5-Tetrachlorobenzene	0.559	0.575	0.672	0.585	0.605		0.599	7.4
4-Bromophenyl-phenylether	0.195	0.203	0.234	0.203	0.207		0.209	7.2
Hexachlorobenzene	0.216	0.224	0.261	0.225	0.228		0.231	7.5
Atrazine		0.173	0.178	0.186	0.167	0.155	0.172	6.9
Pentachlorophenol		0.081	0.111	0.123	0.131	0.139	0.117	19.5
2-Methylphenol		1.160	1.446	1.281	1.305	1.259	1.290	8.0
Phenanthrene	0.996	1.024	1.177	1.051	1.021		1.054	6.8
Pentachlorobenzene	0.282	0.286	0.328	0.272	0.282		0.290	7.6
Anthracene	1.000	1.023	1.194	1.040	1.006		1.053	7.6
1,2,3,4-Tetrachlorobenzene	0.292	0.302	0.346	0.288	0.322		0.310	7.7
Carbazole		0.848	1.013	0.929	0.868	0.831	0.898	8.3
Di-n-butylphthalate	0.980	1.062	1.337	1.285	1.243		1.181	12.9
Fluoranthene	1.412	1.472	1.666	1.455	1.535		1.508	6.5
Pyrene	1.477	1.547	1.727	1.479	1.516		1.549	6.7
Butylbenzylphthalate	0.490	0.547	0.696	0.692	0.731		0.631	16.8
3,3-Dichlorobenzidine		0.343	0.407	0.439	0.412	0.375	0.395	9.4
2,2-oxybis(1-Chloropropane)		2.861	3.369	2.871	2.782	2.602	2.897	9.8
Benzo(a)anthracene	1.284	1.312	1.523	1.393	1.393		1.381	6.8
Chrysene	1.204	1.234	1.411	1.270	1.269		1.278	6.2
Bis(2-ethylhexyl)phthalate	0.718	0.815	1.050	1.050	1.057		0.938	17.1
Di-n-octyl phthalate		1.251	1.620	1.587	1.666	1.525	1.530	10.7
Benzo(b)fluoranthene	1.121	1.175	1.363	1.227	1.259		1.229	7.4
Benzo(k)fluoranthene	1.119	1.142	1.319	1.208	1.214		1.201	6.5
Benzo(a)pyrene	0.970	0.995	1.201	1.110	1.123		1.080	8.9
Indeno(1,2,3-cd)pyrene	1.063	1.075	1.291	1.216	1.252		1.179	8.8
Dibenzo(a,h)anthracene	0.832	0.856	1.027	0.961	0.989		0.933	9.1
Benzo(g,h,i)perylene	0.940	0.974	1.141	1.064	1.076		1.039	7.8
Acetophenone		2.121	2.530	2.143	2.055	1.847	2.139	11.6
2,3,4,6-Tetrachlorophenol	0.214	0.254	0.323	0.321	0.316		0.286	17.3
1,4-Dioxane-d8	0.527	0.471	0.574	0.511	0.496		0.516	7.4
Pyridine-d5		1.045	1.440	1.344	1.381	1.431	1.328	12.3

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG No.: BM053124

Instrument ID: Calibration Date(s): 5/31/2024

Calibration Time(s): 09:07

LAB FILE ID: RRFAL1 = BM045789.D RRFAL2 = BM045790.D RRFAL3 = BM045791.D
RRFAL4 = BM045792.D RRFAL5 = BM045793.D RRFAL6 = BM045794.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Phenol-d5		1.567	1.907	1.667	1.688	1.666	1.699	7.4
Bis-(2-Chloroethyl)ether-d8		1.174	1.415	1.200	1.191	1.120	1.220	9.3
2-Chlorophenol-d4	1.088	1.179	1.476	1.291	1.313		1.269	11.6
4-Methylphenol-d8		1.164	1.450	1.275	1.291	1.239	1.284	8.2
Nitrobenzene-d5	0.142	0.147	0.172	0.159	0.162		0.156	7.7
2-Nitrophenol-d4	0.127	0.139	0.182	0.166	0.177		0.158	15.3
2,4-Dichlorophenol-d3	0.254	0.276	0.336	0.307	0.311		0.297	10.7
4-Chloroaniline-d4		0.393	0.449	0.423	0.403	0.386	0.411	6.2
4-Methylphenol		1.271	1.572	1.344	1.313	1.176	1.335	11.0
Dimethylphthalate-d6	1.269	1.304	1.531	1.427	1.391		1.385	7.5
Acenaphthylene-d8	1.443	1.520	1.797	1.642	1.637		1.608	8.4
4-Nitrophenol-d4		0.244	0.315	0.324	0.307	0.304	0.299	10.5
Fluorene-d10	1.097	1.150	1.306	1.203	1.150		1.181	6.7
4,6-Dinitro-2-methylphenol-		0.073	0.101	0.107	0.113	0.117	0.102	17.2
Anthracene-d10	0.798	0.832	0.978	0.880	0.859		0.869	7.8
Pyrene-d10	1.158	1.201	1.375	1.219	1.266		1.244	6.6
Benzo(a)pyrene-d12	0.797	0.866	1.049	0.975	0.988		0.935	10.9
N-Nitroso-di-n-propylamine	1.078	1.152	1.369	1.183	1.129		1.182	9.4

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG NO.: BM053124

EPA Sample No.: SSTD020036 Date Analyzed: May 31 2024 12:00AM

Lab File ID: BM045791.D Time Analyzed: 13:09

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	224754	7.469	951354	10.23	577583	14.11
	UPPER LIMIT	449508	7.969	1902708	10.734	1155166	14.61
	LOWER LIMIT	112377	6.969	475677	9.734	288791.5	13.61
	EPA SAMPLE NO.						
01	SICV040	205412	7.47	836157	10.23	507256	14.11

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG NO.: BM053124

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG NO.: BM053124

EPA Sample No.: SSTD020036 Date Analyzed: May 31 2024 12:00AM

Lab File ID: BM045791.D Time Analyzed: 13:09

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1.08015e+0(	16.857	828447	21.068	872879	23.791
	UPPER LIMIT	2160300	17.357	1656894	21.568	1745758	24.291
	LOWER LIMIT	540075	16.357	414223.5	20.568	436439.5	23.291
	EPA SAMPLE NO.						
01	SICV040	969407	16.86	777861	21.07	823914	23.79

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG NO.: BM053124

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM053124

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
SSTDICV020	1,4-Dioxane	8	0	ug/L	0				0	0	
	Benzaldehyde	20	0	ug/L	0				0	0	
	Pyridine	20	0	ug/L	0				0	0	
	Phenol	20	0	ug/L	0				0	0	
	Bis(2-chloroethyl)ether	20	0	ug/L	0				0	0	
	2-Chlorophenol	20	0	ug/L	0				0	0	
	2-Methylphenol	20	0	ug/L	0				0	0	
	2,2-oxybis(1-Chloropropane)	20	0	ug/L	0				0	0	
	Acetophenone	20	0	ug/L	0				0	0	
	4-Methylphenol	20	0	ug/L	0				0	0	
	N-Nitroso-di-n-propylamine	20	0	ug/L	0				0	0	
	Hexachloroethane	20	0	ug/L	0				0	0	
	Nitrobenzene	20	0	ug/L	0				0	0	
	Isophorone	20	0	ug/L	0				0	0	
	2-Nitrophenol	20	0	ug/L	0				0	0	
	2,4-Dimethylphenol	20	0	ug/L	0				0	0	
	Bis(2-chloroethoxy)methane	20	0	ug/L	0				0	0	
	2,4-Dichlorophenol	20	0	ug/L	0				0	0	
	Naphthalene	20	0	ug/L	0				0	0	
	4-Chloroaniline	20	0	ug/L	0				0	0	
	Hexachlorobutadiene	20	0	ug/L	0				0	0	
	Caprolactam	20	0	ug/L	0				0	0	
	4-Chloro-3-methylphenol	20	0	ug/L	0				0	0	
	1-Methylnaphthalene	20	0	ug/L	0				0	0	
	2-Methylnaphthalene	20	0	ug/L	0				0	0	
	Hexachlorocyclopentadiene	20	0	ug/L	0				0	0	
	2,4,6-Trichlorophenol	20	0	ug/L	0				0	0	
	2,4,5-Trichlorophenol	20	0	ug/L	0				0	0	
	1,1'-Biphenyl	20	0	ug/L	0				0	0	
	2-Chloronaphthalene	20	0	ug/L	0				0	0	
	2-Nitroaniline	20	0	ug/L	0				0	0	
	Dimethylphthalate	20	0	ug/L	0				0	0	
	2,6-Dinitrotoluene	20	0	ug/L	0				0	0	
	Acenaphthylene	20	0	ug/L	0				0	0	
	3-Nitroaniline	20	0	ug/L	0				0	0	
	Acenaphthene	20	0	ug/L	0				0	0	
	2,4-Dinitrophenol	20	0	ug/L	0				0	0	
	4-Nitrophenol	20	0	ug/L	0				0	0	
	Dibenzofuran	20	0	ug/L	0				0	0	
	2,4-Dinitrotoluene	20	0	ug/L	0				0	0	
	Diethylphthalate	20	0	ug/L	0				0	0	
	Fluorene	20	0	ug/L	0				0	0	
	4-Chlorophenyl-phenylether	20	0	ug/L	0				0	0	
	4-Nitroaniline	20	0	ug/L	0				0	0	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM053124

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
SSTDICV020	4,6-Dinitro-2-methylphenol	20	0	ug/L	0				0	0	
	N-Nitrosodiphenylamine	20	0	ug/L	0				0	0	
	1,2,4,5-Tetrachlorobenzene	20	0	ug/L	0				0	0	
	4-Bromophenyl-phenylether	20	0	ug/L	0				0	0	
	Hexachlorobenzene	20	0	ug/L	0				0	0	
	Atrazine	20	0	ug/L	0				0	0	
	Pentachlorophenol	20	0	ug/L	0				0	0	
	Phenanthrene	20	0	ug/L	0				0	0	
	Pentachlorobenzene	20	0	ug/L	0				0	0	
	Anthracene	20	0	ug/L	0				0	0	
	1,2,3,4-Tetrachlorobenzene	20	0	ug/L	0				0	0	
	Carbazole	20	0	ug/L	0				0	0	
	Di-n-butylphthalate	20	0	ug/L	0				0	0	
	Fluoranthene	20	0	ug/L	0				0	0	
	Pyrene	20	0	ug/L	0				0	0	
	Butylbenzylphthalate	20	0	ug/L	0				0	0	
	3,3'-Dichlorobenzidine	20	0	ug/L	0				0	0	
	Benzo(a)anthracene	20	0	ug/L	0				0	0	
	Chrysene	20	0	ug/L	0				0	0	
	Bis(2-ethylhexyl)phthalate	20	0	ug/L	0				0	0	
	Di-n-octylphthalate	20	0	ug/L	0				0	0	
	Benzo(b)fluoranthene	20	0	ug/L	0				0	0	
	Benzo(k)fluoranthene	20	0	ug/L	0				0	0	
	Benzo(a)pyrene	20	0	ug/L	0				0	0	
	Indeno(1,2,3-cd)pyrene	20	0	ug/L	0				0	0	
	Dibenzo(a,h)anthracene	20	0	ug/L	0				0	0	
	Benzo(g,h,i)perylene	20	0	ug/L	0				0	0	
	2,3,4,6-Tetrachlorophenol	20	0	ug/L	0				0	0	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM053124 SAS No.: BM053124 SDG NO.: BM053124

Lab File ID: Lab Sample ID:

Instrument ID: Date Extracted:

Matrix: (soil/water) Date Analyzed:

Level: (low/med) Time Analyzed:

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: _____

Client: _____

Analytical Method:

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM053124

Lab Code: CHEM SAS No.: BM053124 SDG NO.: BM053124

Lab File ID: BM045788.D DFTPP Injection Date: 05/31/2024

Instrument ID: BNA_M DFTPP Injection Time: 08:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.4
68	Less than 2.0% of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	50.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	53.6
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	8.1
442	Greater than 50% of mass 198	51.3
443	15.0 - 24.0% of mass 442	10 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD005034	SSTD00512	BM045789.D	05/31/2024	09:07
SSTD010035	SSTD01013	BM045790.D	05/31/2024	09:46
SSTD020036	SSTD02014	BM045791.D	05/31/2024	10:25
SSTD040037	SSTD04015	BM045792.D	05/31/2024	11:04
SSTD080038	SSTD08016	BM045793.D	05/31/2024	11:43
SSTD160039	SSTD16017	BM045794.D	05/31/2024	12:23
SICV040	SSTDICV020	BM045795.D	05/31/2024	13:09