CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG No.: BN032324

Instrument ID: BNA_N Calibration Date/Time: 3/22/2024 1: 17:42

Lab File ID: BN030471.D Init. Calib. Date(s):

EPA Sample No.: SICV210 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.505	0.474	0.010	-6.1263	40.0
Benzaldehyde	0.882	1.087	0.010	23.1831	40.0
Pyridine	1.466	1.355	0.010	-7.5605	40.0
Phenol	1.885	1.864	0.080	-1.1299	20.0
Bis(2-Chloroethyl)ether	1.564	1.543	0.100	-1.3374	20.0
2-Chlorophenol	1.358	1.406	0.200	3.5253	20.0
2-Methylphenol	1.448	1.415	0.010	-2.2875	20.0
2,2-oxybis(1-Chloropropane)	2.165	2.087	0.010	-3.6162	40.0
Acetophenone	2.449	2.640	0.060	7.7971	20.0
4-Methylphenol	1.616	1.631	0.010	0.9482	20.0
N-Nitroso-di-n-propylamine	1.318	1.370	0.050	3.9586	30.0
Hexachloroethane	0.561	0.551	0.100	-1.7371	20.0
Nitrobenzene	0.356	0.363	0.050	1.9446	25.0
Isophorone	0.782	0.800	0.050	2.291	25.0
2-Nitrophenol	0.141	0.160	0.050	13.6034	25.0
2,4-Dimethylphenol	0.351	0.291	0.050	-17.0102	25.0
Bis(2-Chloroethoxy)methane	0.481	0.479	0.050	-0.4125	20.0
2,4-Dichlorophenol	0.276	0.292	0.060	6.1027	20.0
Naphthalene	1.044	1.051	0.200	0.6103	20.0
4-Chloroaniline	0.465	0.483	0.010	3.7879	40.0
Hexachlorobutadiene	0.162	0.163	0.040	0.6493	30.0
Caprolactam	0.118	0.132	0.010	12.513	40.0
4-Chloro-3-methylphenol	0.340	0.372	0.040	9.1791	25.0
1-Methylnaphthalene	0.739	0.727	0.100	-1.5854	20.0
2-Methylnaphthalene	0.733	0.772	0.100	5.3311	20.0
Hexachlorocyclopentadiene	0.268	0.264	0.010	-1.306	40.0
2,4,6-Trichlorophenol	0.309	0.330	0.090	6.8456	25.0
2,4,5-Trichlorophenol	0.343	0.373	0.100	8.9222	25.0
1,1-Biphenyl	1.387	1.437	0.200	3.6206	20.0
2-Chloronaphthalene	1.069	1.097	0.300	2.5572	20.0
2-Nitroaniline	0.299	0.332	0.050	11.127	40.0
Dimethylphthalate	1.451	1.464	0.300	0.9183	20.0
2,6-Dinitrotoluene	0.248	0.293	0.080	18.356	30.0
Acenaphthylene	1.839	1.858	0.400	1.0466	20.0
3-Nitroaniline	0.275	0.352	0.010	28.0583	40.0
Acenaphthene	1.210	1.181	0.200	-2.4317	20.0
2,4-Dinitrophenol	0.111	0.103	0.010	-7.1857	40.0
4-Nitrophenol	0.209	0.217	0.010	4.1026	40.0
Dibenzofuran	1.656	1.721	0.300	3.9378	20.0
2,4-Dinitrotoluene	0.366	0.414	0.070	13.1709	30.0
Diethylphthalate	1.487	1.515	0.300	1.92	20.0

CHEMTECH

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG No.: BN032324

Instrument ID: BNA_N Calibration Date/Time: 3/22/2024 1: 17:42

Lab File ID: BN030471.D Init. Calib. Date(s):

EPA Sample No.: SICV210 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Fluorene	1.376	1.407	0.200	2.2427	20.0
4-Chlorophenyl-phenylether	0.656	0.673	0.100	2.608	20.0
4-Nitroaniline	0.278	0.373	0.010	34.1565	40.0
4,6-Dinitro-2-methylphenol	0.091	0.088	0.010	-2.4471	40.0
N-Nitrosodiphenylamine	0.551	0.586	0.050	6.3616	20.0
1,2,4,5-Tetrachlorobenzene	0.492	0.510	0.100	3.7098	20.0
4-Bromophenyl-phenylether	0.184	0.192	0.070	4.4497	20.0
Hexachlorobenzene	0.216	0.217	0.050	0.2968	25.0
Atrazine	0.193	0.203	0.010	5.6785	25.0
Pentachlorophenol	0.129	0.135	0.010	5.2879	40.0
Phenanthrene	1.036	1.060	0.200	2.3755	20.0
Pentachlorobenzene	0.238	0.234	0.050	-1.7316	20.0
Anthracene	1.060	1.088	0.200	2.609	20.0
1,2,3,4-Tetrachlorobenzene	0.230	0.240	0.050	4.3223	20.0
Carbazole	0.935	1.038	0.050	10.9607	40.0
Di-n-butylphthalate	1.181	1.260	0.500	6.7057	25.0
Fluoranthene	1.262	1.289	0.400	2.1177	25.0
Pyrene	1.323	1.364	0.400	3.1228	25.0
Butylbenzylphthalate	0.519	0.564	0.100	8.6596	40.0
3,3-Dichlorobenzidine	0.404	0.476	0.010	18.0069	40.0
Benzo(a)anthracene	1.355	1.377	0.300	1.654	30.0
Chrysene	1.247	1.287	0.200	3.1842	30.0
Bis(2-ethylhexyl)phthalate	0.822	0.916	0.200	11.4335	40.0
Di-n-octyl phthalate	1.236	1.259	0.010	1.8946	40.0
Benzo(b)fluoranthene	1.163	1.190	0.200	2.3269	25.0
Benzo(k)fluoranthene	1.194	1.148	0.200	-3.8908	25.0
Benzo(a)pyrene	1.110	1.120	0.200	0.8728	20.0
Indeno(1,2,3-cd)pyrene	1.252	1.304	0.200	4.2096	25.0
Dibenzo(a,h)anthracene	1.052	1.073	0.200	2.0268	30.0
Benzo(g,h,i)perylene	0.991	0.994	0.200	0.3065	30.0
2,3,4,6-Tetrachlorophenol	0.290	0.343	0.040	18.3048	20.0
1,4-Dioxane-d8	0.471	0.470	0.010	-0.2731	25.0
Pyridine-d5	1.464	1.541	0.010	5.296	40.0
Phenol-d5	1.797	1.864	0.010	3.7296	25.0
Bis-(2-Chloroethyl)ether-d8	1.155	1.301	0.050	12.615	25.0
2-Chlorophenol-d4	1.255	1.359	0.200	8.3104	20.0
4-Methylphenol-d8	1.492	1.576	0.010	5.5962	20.0
Nitrobenzene-d5	0.134	0.152	0.050	13.5163	20.0
2-Nitrophenol-d4	0.119	0.142	0.050	19.486	30.0
2,4-Dichlorophenol-d3	0.268	0.310	0.060	15.7636	20.0
4-Chloroaniline-d4	0.479	0.508	0.010	6.0976	40.0

CHEMTECH

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG No.: BN032324

Instrument ID: BNA_N Calibration Date/Time: 3/22/2024 12 17:42

Lab File ID: BN030471.D Init. Calib. Date(s):

EPA Sample No.: SICV210 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.394	1.526	0.300	9.5162	20.0
Acenaphthylene-d8	1.570	1.718	0.400	9.4613	20.0
4-Nitrophenol-d4	0.266	0.292	0.010	9.775	40.0
Fluorene-d10	1.193	1.289	0.100	8.0689	20.0
4,6-Dinitro-2-methylphenol-d2	0.081	0.081	0.010	-1.1581	40.0
Anthracene-d10	0.862	0.923	0.300	7.0222	20.0
Pyrene-d10	1.041	1.136	0.300	9.1248	25.0
Benzo(a)pyrene-d12	0.931	1.013	0.010	8.86	20.0

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

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

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BN032324

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.: BN032324 SAS No.: BN032324 SDG No.: BN032324

Instrument ID: Calibration Date(s): 3/22/2024

Calibration Time(s): 13:38

LAB FILE ID: RRFAL1 = BN030465.D RRFAL2 = BN030466.D RRFAL3 = BN030467.D
RRFAL4 = BN030468.D RRFAL5 = BN030469.D RRFAL6 = BN030470.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.501	0.526	0.526	0.490	0.481		0.505	4.1
Benzaldehyde		1.033	1.120	0.974	0.721	0.562	0.882	26.4
Pyridine		1.444	1.519	1.488	1.461	1.416	1.466	2.7
Hexachloroethane	0.534	0.550	0.583	0.570	0.566		0.561	3.4
Nitrobenzene	0.323	0.342	0.380	0.369	0.367		0.356	6.5
Isophorone	0.714	0.769	0.837	0.806	0.785		0.782	5.8
2-Nitrophenol	0.102	0.121	0.148	0.162	0.170		0.141	20.4
2,4-Dimethylphenol	0.315	0.343	0.373	0.363	0.359		0.351	6.5
Bis(2-Chloroethoxy)methane	0.471	0.484	0.509	0.477	0.463		0.481	3.6
2,4-Dichlorophenol	0.238	0.265	0.297	0.289	0.290		0.276	8.9
Naphthalene	1.037	1.050	1.106	1.027	1.001		1.044	3.7
4-Chloroaniline		0.475	0.495	0.476	0.466	0.414	0.465	6.5
Hexachlorobutadiene	0.159	0.160	0.170	0.163	0.159		0.162	2.9
Phenol		1.740	1.906	1.935	1.958	1.888	1.885	4.5
Caprolactam		0.104	0.125	0.124	0.121	0.115	0.118	7.3
4-Chloro-3-methylphenol	0.289	0.329	0.366	0.360	0.359		0.340	9.5
1-Methylnaphthalene	0.710	0.765	0.784	0.735	0.701		0.739	4.8
2-Methylnaphthalene	0.711	0.735	0.774	0.734	0.709		0.733	3.5
Hexachlorocyclopentadiene		0.224	0.255	0.277	0.292	0.290	0.268	10.6
2,4,6-Trichlorophenol	0.252	0.285	0.323	0.341	0.344		0.309	12.8
2,4,5-Trichlorophenol	0.278	0.320	0.357	0.374	0.384		0.343	12.8
1,1-Biphenyl	1.385	1.407	1.453	1.383	1.306		1.387	3.8
2-Chloronaphthalene	1.053	1.067	1.103	1.082	1.041		1.069	2.3
2-Nitroaniline	0.224	0.266	0.317	0.341	0.348		0.299	17.6
Bis(2-Chloroethyl)ether		1.560	1.646	1.611	1.543	1.462	1.564	4.5
Dimethylphthalate	1.428	1.478	1.495	1.467	1.386		1.451	3.0
2,6-Dinitrotoluene	0.181	0.219	0.259	0.287	0.292		0.248	19.0
Acenaphthylene	1.766	1.866	1.931	1.879	1.750		1.839	4.2
3-Nitroaniline		0.245	0.297	0.294	0.278	0.260	0.275	8.2
Acenaphthene	1.203	1.234	1.260	1.209	1.146		1.210	3.5
2,4-Dinitrophenol		0.066	0.085	0.110	0.136	0.159	0.111	33.6
4-Nitrophenol		0.196	0.214	0.218	0.214	0.200	0.209	4.7
Dibenzofuran	1.648	1.703	1.719	1.651	1.558		1.656	3.8
2,4-Dinitrotoluene	0.264	0.332	0.394	0.415	0.423		0.366	18.4
Diethylphthalate	1.422	1.515	1.556	1.497	1.442		1.487	3.7
2-Chlorophenol	1.228	1.313	1.401	1.421	1.429		1.358	6.4

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.: BN032324 SAS No.: BN032324 SDG No.: BN032324

Instrument ID: Calibration Date(s): 3/22/2024

Calibration Time(s): 13:38

LAB FILE ID: RRFAL1 = BN030465.D RRFAL2 = BN030466.D RRFAL3 = BN030467.D
RRFAL4 = BN030468.D RRFAL5 = BN030469.D RRFAL6 = BN030470.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.409	1.457	1.430	1.358	1.227		1.376	6.6
4-Chlorophenyl-phenylether	0.669	0.689	0.679	0.656	0.586		0.656	6.2
4-Nitroaniline		0.263	0.307	0.302	0.274	0.245	0.278	9.4
4,6-Dinitro-2-methylphenol		0.060	0.080	0.095	0.108	0.110	0.091	23.0
N-Nitrosodiphenylamine	0.538	0.543	0.587	0.562	0.526		0.551	4.4
1,2,4,5-Tetrachlorobenzene	0.458	0.497	0.516	0.495	0.495		0.492	4.3
4-Bromophenyl-phenylether	0.175	0.177	0.190	0.190	0.189		0.184	4.1
Hexachlorobenzene	0.207	0.208	0.230	0.222	0.214		0.216	4.5
Atrazine		0.182	0.205	0.204	0.196	0.175	0.193	7.0
Pentachlorophenol		0.101	0.123	0.136	0.144	0.139	0.129	13.7
2-Methylphenol		1.296	1.460	1.502	1.522	1.459	1.448	6.1
Phenanthrene	1.037	1.050	1.086	1.040	0.966		1.036	4.2
Pentachlorobenzene	0.230	0.230	0.249	0.242	0.239		0.238	3.5
Anthracene	1.057	1.068	1.130	1.076	0.968		1.060	5.5
1,2,3,4-Tetrachlorobenzene	0.213	0.222	0.241	0.238	0.236		0.230	5.3
Carbazole		0.981	1.030	0.993	0.919	0.753	0.935	11.7
Di-n-butylphthalate	1.055	1.148	1.285	1.255	1.161		1.181	7.8
Fluoranthene	1.173	1.273	1.343	1.300	1.223		1.262	5.3
Pyrene	1.295	1.350	1.419	1.340	1.210		1.323	5.8
Butylbenzylphthalate	0.380	0.467	0.558	0.600	0.589		0.519	18.0
3,3-Dichlorobenzidine		0.351	0.429	0.450	0.424	0.365	0.404	10.7
2,2-oxybis(1-Chloropropane)		2.187	2.310	2.237	2.130	1.961	2.165	6.1
Benzo(a)anthracene	1.302	1.374	1.437	1.382	1.281		1.355	4.7
Chrysene	1.197	1.258	1.314	1.259	1.210		1.247	3.7
Bis(2-ethylhexyl)phthalate	0.625	0.763	0.922	0.935	0.866		0.822	15.7
Di-n-octyl phthalate		0.979	1.251	1.384	1.378	1.186	1.236	13.5
Benzo(b)fluoranthene	1.037	1.126	1.238	1.212	1.201		1.163	7.0
Benzo(k)fluoranthene	1.090	1.185	1.228	1.271	1.196		1.194	5.6
Benzo(a)pyrene	0.998	1.066	1.163	1.179	1.144		1.110	6.9
Indeno(1,2,3-cd)pyrene	1.092	1.194	1.304	1.367	1.302		1.252	8.7
Dibenzo(a,h)anthracene	0.942	1.014	1.101	1.132	1.068		1.052	7.1
Benzo(g,h,i)perylene	0.885	0.944	1.042	1.073	1.013		0.991	7.7
Acetophenone		2.483	2.624	2.550	2.405	2.183	2.449	6.9
2,3,4,6-Tetrachlorophenol	0.232	0.270	0.296	0.319	0.331		0.290	13.7
1,4-Dioxane-d8	0.497	0.461	0.491	0.463	0.443		0.471	4.8
Pyridine-d5		1.391	1.496	1.510	1.478	1.443	1.464	3.3

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.: BN032324 SAS No.: BN032324 SDG No.: BN032324

Instrument ID: Calibration Date(s): 3/22/2024

Calibration Time(s): 13:38

LAB FILE ID: RRFAL1 = BN030465.D RRFAL2 = BN030466.D RRFAL3 = BN030467.D
RRFAL4 = BN030468.D RRFAL5 = BN030469.D RRFAL6 = BN030470.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Phenol-d5		1.591	1.777	1.845	1.889	1.884	1.797	6.9
Bis-(2-Chloroethyl)ether-d8		1.169	1.209	1.189	1.133	1.075	1.155	4.6
2-Chlorophenol-d4	1.091	1.162	1.313	1.343	1.366		1.255	9.7
4-Methylphenol-d8		1.323	1.506	1.553	1.571	1.509	1.492	6.6
Nitrobenzene-d5	0.113	0.124	0.140	0.143	0.151		0.134	11.4
2-Nitrophenol-d4	0.088	0.097	0.121	0.137	0.151		0.119	22.1
2,4-Dichlorophenol-d3	0.222	0.251	0.284	0.290	0.293		0.268	11.5
4-Chloroaniline-d4		0.476	0.504	0.493	0.483	0.438	0.479	5.2
4-Methylphenol		1.481	1.636	1.688	1.666	1.610	1.616	5.0
Dimethylphthalate-d6	1.351	1.407	1.458	1.405	1.347		1.394	3.3
Acenaphthylene-d8	1.454	1.572	1.659	1.608	1.556		1.570	4.8
4-Nitrophenol-d4		0.224	0.264	0.283	0.285	0.275	0.266	9.3
Fluorene-d10	1.187	1.202	1.235	1.196	1.143		1.193	2.8
4,6-Dinitro-2-methylphenol-		0.052	0.070	0.085	0.097	0.104	0.081	25.7
Anthracene-d10	0.834	0.843	0.913	0.883	0.838		0.862	4.0
Pyrene-d10	0.983	1.034	1.101	1.063	1.022		1.041	4.3
Benzo(a)pyrene-d12	0.786	0.878	0.977	0.997	1.015		0.931	10.4
N-Nitroso-di-n-propylamine	1.192	1.324	1.415	1.370	1.287		1.318	6.5

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG NO.: BN032324

EPA Sample No.: SSTD020206 Date Analyzed: Mar 22 2024 12:00AM

Lab File ID: BN030467.D Time Analyzed: 17:42

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	302616	7.728	1.47652e+0(	10.52	1.07574e+00(	14.37
	UPPER LIMIT	605232	8.228	2953040	11.016	2151480	14.869
	LOWER LIMIT	151308	7.228	738260	10.016	537870	13.869
	EPA SAMPLE NO.						
01	SICV210	286142	7.72	1.39732e	10.51	1.01797e	14.37

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.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG NO.: BN032324

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.
* Values outside of QC limits.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG NO.: BN032324

EPA Sample No.: SSTD020206 Date Analyzed: Mar 22 2024 12:00AM

Lab File ID: BN030467.D Time Analyzed: 17:42

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2.28361e+0(	17.11(	2.17693e+	21.357	2.4455e+00(	24.327
	UPPER LIMIT	4567220	17.61(	4353860	21.857	4891000	24.827
	LOWER LIMIT	1141805	16.61(	1088465	20.857	1222750	23.827
	EPA SAMPLE NO.						
01	SICV210	2.19832	17.12	2.09811e+	21.36	2.33491e+	24.33

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG NO.: BN032324

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.

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BN032324

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	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	
	4,6-Dinitro-2-methylphenol	20	0	ug/L	0				0	0	
	N-Nitrosodiphenylamine	20	0	ug/L	0				0	0	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BN032324

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
SSTDICV020	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	

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN032324 SAS No.: BN032324 SDG NO.: BN032324

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:

CHEMTECH

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

CHEMTECH

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BN032324

Lab Code: CHEM SAS No.: BN032324 SDG NO.: BN032324

Lab File ID: BN030464.D DFTPP Injection Date: 03/22/2024

Instrument ID: BNA_N DFTPP Injection Time: 12:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.3
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	40.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.8
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	57.8
443	15.0 - 24.0% of mass 442	11.5 (19.9) 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
SSTD005204	SSTD00526	BN030465.D	03/22/2024	13:38
SSTD010205	SSTD01027	BN030466.D	03/22/2024	14:18
SSTD020206	SSTD02028	BN030467.D	03/22/2024	14:57
SSTD040207	SSTD04029	BN030468.D	03/22/2024	15:37
SSTD080208	SSTD08030	BN030469.D	03/22/2024	16:16
SSTD160209	SSTD16031	BN030470.D	03/22/2024	16:56
SICV210	SSTDICV020	BN030471.D	03/22/2024	17:42