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.: BN050324 SAS No.: BN050324 SDG No.: BN050324

Instrument ID: BNA_N Calibration Date/Time: 5/3/2024 12: 14:21

Lab File ID: BN031390.D Init. Calib. Date(s):

EPA Sample No.: SICV237 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.461	0.409	0.010	-11.3124	40.0
Benzaldehyde	0.723	0.825	0.010	14.1383	40.0
Pyridine	1.208	1.029	0.010	-14.8121	40.0
Phenol	1.543	1.499	0.080	-2.8579	20.0
Bis(2-Chloroethyl)ether	1.230	1.159	0.100	-5.7456	20.0
2-Chlorophenol	1.329	1.283	0.200	-3.4684	20.0
2-Methylphenol	1.194	1.119	0.010	-6.2952	20.0
2,2-oxybis(1-Chloropropane)	1.349	1.309	0.010	-2.971	40.0
Acetophenone	2.001	2.051	0.060	2.5226	20.0
4-Methylphenol	1.290	1.257	0.010	-2.6203	20.0
N-Nitroso-di-n-propylamine	0.988	1.000	0.050	1.2053	30.0
Hexachloroethane	0.587	0.538	0.100	-8.3877	20.0
Nitrobenzene	0.357	0.329	0.050	-7.7494	25.0
Isophorone	0.679	0.642	0.050	-5.442	25.0
2-Nitrophenol	0.179	0.177	0.050	-1.3795	25.0
2,4-Dimethylphenol	0.349	0.253	0.050	-27.6037	25.0
Bis(2-Chloroethoxy)methane	0.396	0.373	0.050	-5.7858	20.0
2,4-Dichlorophenol	0.296	0.286	0.060	-3.278	20.0
Naphthalene	1.031	0.970	0.200	-5.9131	20.0
4-Chloroaniline	0.403	0.401	0.010	-0.4998	40.0
Hexachlorobutadiene	0.207	0.193	0.040	-7.1101	30.0
Caprolactam	0.096	0.099	0.010	3.8564	40.0
4-Chloro-3-methylphenol	0.344	0.339	0.040	-1.4056	25.0
1-Methylnaphthalene	0.704	0.638	0.100	-9.452	20.0
2-Methylnaphthalene	0.704	0.688	0.100	-2.2862	20.0
Hexachlorocyclopentadiene	0.371	0.475	0.010	28.1896	40.0
2,4,6-Trichlorophenol	0.372	0.361	0.090	-2.8351	25.0
2,4,5-Trichlorophenol	0.400	0.382	0.100	-4.4332	25.0
1,1-Biphenyl	1.417	1.375	0.200	-2.9593	20.0
2-Chloronaphthalene	1.118	1.039	0.300	-7.0752	20.0
2-Nitroaniline	0.318	0.319	0.050	0.0402	40.0
Dimethylphthalate	1.473	1.413	0.300	-4.0429	20.0
2,6-Dinitrotoluene	0.294	0.297	0.080	1.1598	30.0
Acenaphthylene	1.828	1.764	0.400	-3.5281	20.0
3-Nitroaniline	0.290	0.309	0.010	6.4276	40.0
Acenaphthene	1.217	1.128	0.200	-7.3541	20.0
2,4-Dinitrophenol	0.175	0.169	0.010	-3.3856	40.0
4-Nitrophenol	0.265	0.260	0.010	-1.9104	40.0
Dibenzofuran	1.627	1.596	0.300	-1.9558	20.0

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN050324 SAS No.: BN050324 SDG No.: BN050324

Instrument ID: BNA_N Calibration Date/Time: 5/3/2024 12: 14:21

Lab File ID: BN031390.D Init. Calib. Date(s):

EPA Sample No.: SICV237 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
2,4-Dinitrotoluene	0.428	0.422	0.070	-1.3144	30.0
Diethylphthalate	1.533	1.479	0.300	-3.471	20.0
Fluorene	1.355	1.296	0.200	-4.3234	20.0
4-Chlorophenyl-phenylether	0.674	0.636	0.100	-5.6474	20.0
4-Nitroaniline	0.257	0.300	0.010	16.6312	40.0
4,6-Dinitro-2-methylphenol	0.127	0.121	0.010	-4.9806	40.0
N-Nitrosodiphenylamine	0.565	0.547	0.050	-3.1271	20.0
1,2,4,5-Tetrachlorobenzene	0.561	0.537	0.100	-4.3047	20.0
4-Bromophenyl-phenylether	0.201	0.191	0.070	-5.0026	20.0
Hexachlorobenzene	0.239	0.222	0.050	-7.0007	25.0
Atrazine	0.190	0.191	0.010	0.7272	25.0
Pentachlorophenol	0.153	0.140	0.010	-8.4013	40.0
Phenanthrene	1.032	0.963	0.200	-6.6536	20.0
Pentachlorobenzene	0.270	0.251	0.050	-6.9691	20.0
Anthracene	1.051	0.988	0.200	-6.0104	20.0
1,2,3,4-Tetrachlorobenzene	0.269	0.250	0.050	-7.1429	20.0
Carbazole	0.909	0.895	0.050	-1.6071	40.0
Di-n-butylphthalate	1.251	1.211	0.500	-3.2328	25.0
Fluoranthene	1.368	1.287	0.400	-5.9078	25.0
Pyrene	1.427	1.373	0.400	-3.7868	25.0
Butylbenzylphthalate	0.633	0.633	0.100	-0.0024	40.0
3,3-Dichlorobenzidine	0.372	0.401	0.010	7.8527	40.0
Benzo(a)anthracene	1.341	1.268	0.300	-5.4471	30.0
Chrysene	1.263	1.221	0.200	-3.2924	30.0
Bis(2-ethylhexyl)phthalate	0.897	0.917	0.200	2.2885	40.0
Di-n-octyl phthalate	1.427	1.527	0.010	7.0402	40.0
Benzo(b)fluoranthene	1.197	1.174	0.200	-1.9553	25.0
Benzo(k)fluoranthene	1.180	1.179	0.200	-0.0611	25.0
Benzo(a)pyrene	1.093	1.027	0.200	-6.0174	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.138	0.200	-12.6521	25.0
Dibenzo(a,h)anthracene	1.085	0.916	0.200	-15.5626	30.0
Benzo(g,h,i)perylene	1.050	0.851	0.200	-18.8918	30.0
2,3,4,6-Tetrachlorophenol	0.344	0.350	0.040	1.8161	20.0
1,4-Dioxane-d8	0.462	0.415	0.010	-10.1833	25.0
Pyridine-d5	1.201	1.169	0.010	-2.7159	40.0
Phenol-d5	1.525	1.519	0.010	-0.3959	25.0
Bis-(2-Chloroethyl)ether-d8	0.861	0.946	0.050	9.7934	25.0
2-Chlorophenol-d4	1.272	1.280	0.200	0.6408	20.0
4-Methylphenol-d8	1.265	1.289	0.010	1.955	20.0

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN050324 SAS No.: BN050324 SDG No.: BN050324

Instrument ID: BNA_N Calibration Date/Time: 5/3/2024 12: 14:21

Lab File ID: BN031390.D Init. Calib. Date(s):

EPA Sample No.: SICV237 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Nitrobenzene-d5	0.151	0.151	0.050	0.5013	20.0
2-Nitrophenol-d4	0.167	0.168	0.050	0.9594	30.0
2,4-Dichlorophenol-d3	0.299	0.297	0.060	-0.8942	20.0
4-Chloroaniline-d4	0.417	0.426	0.010	2.2524	40.0
Dimethylphthalate-d6	1.439	1.490	0.300	3.5502	20.0
Acenaphthylene-d8	1.584	1.609	0.400	1.5727	20.0
4-Nitrophenol-d4	0.256	0.266	0.010	4.0404	40.0
Fluorene-d10	1.176	1.189	0.100	1.0995	20.0
4,6-Dinitro-2-methylphenol-d2	0.122	0.119	0.010	-2.629	40.0
Anthracene-d10	0.871	0.860	0.300	-1.2666	20.0
Pyrene-d10	1.136	1.150	0.300	1.2276	25.0
Benzo(a)pyrene-d12	0.954	0.959	0.010	0.4765	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:	SP6490			SDG No.:	BN050324
Lab Sample ID:	SP6490			Matrix:	Water
Analytical Method:	SFAM_SVOC			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN031391.D	1		5/3/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	310	U	310	500	2000	ug/L
100-52-7	Benzaldehyde	1400	U	1400	5000	10000	ug/L
110-86-1	Pyridine	850	U	850	10000	10000	ug/L
108-95-2	Phenol	1700	U	1700	5000	10000	ug/L
111-44-4	Bis(2-Chloroethyl)ether	1500	U	1500	5000	10000	ug/L
95-57-8	2-Chlorophenol	1100	U	1100	2500	5000	ug/L
95-48-7	2-Methylphenol	1500	U	1500	5000	10000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1400	U	1400	5000	10000	ug/L
98-86-2	Acetophenone	2100	U	2100	5000	10000	ug/L
106-44-5	4-Methylphenol	1600	U	1600	5000	10000	ug/L
621-64-7	N-Nitroso-di-n-propylamine	1400	U	1400	2500	5000	ug/L
67-72-1	Hexachloroethane	890	U	890	2500	5000	ug/L
98-95-3	Nitrobenzene	1300	U	1300	2500	5000	ug/L
78-59-1	Isophorone	1400	U	1400	2500	5000	ug/L
88-75-5	2-Nitrophenol	1400	U	1400	2500	5000	ug/L
105-67-9	2,4-Dimethylphenol	720	U	720	2500	5000	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	1400	U	1400	2500	5000	ug/L
120-83-2	2,4-Dichlorophenol	1400	U	1400	2500	5000	ug/L
91-20-3	Naphthalene	1500	U	1500	2500	5000	ug/L
106-47-8	4-Chloroaniline	1700	U	1700	2500	10000	ug/L
87-68-3	Hexachlorobutadiene	1100	U	1100	2500	5000	ug/L
105-60-2	Caprolactam	1300	U	1300	5000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	1400	U	1400	2500	5000	ug/L
90-12-0	1-Methylnaphthalene	970	U	970	2500	5000	ug/L
91-57-6	2-Methylnaphthalene	1500	U	1500	2500	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	1400	U	1400	5000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	1900	U	1900	2500	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	1700	U	1700	2500	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6490			SDG No.:	BN050324
Lab Sample ID:	SP6490			Matrix:	Water
Analytical Method:	SFAM_SVOC			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN031391.D	1		5/3/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-52-4	1,1-Biphenyl	1900	U	1900	2500	5000	ug/L
91-58-7	2-Chloronaphthalene	1800	U	1800	2500	5000	ug/L
88-74-4	2-Nitroaniline	1200	U	1200	2500	5000	ug/L
131-11-3	Dimethylphthalate	1600	U	1600	2500	5000	ug/L
606-20-2	2,6-Dinitrotoluene	1300	U	1300	2500	5000	ug/L
208-96-8	Acenaphthylene	1800	U	1800	2500	5000	ug/L
99-09-2	3-Nitroaniline	860	U	860	5000	10000	ug/L
83-32-9	Acenaphthene	1900	U	1900	2500	5000	ug/L
51-28-5	2,4-Dinitrophenol	1900	U	1900	5000	10000	ug/L
100-02-7	4-Nitrophenol	1500	U	1500	5000	10000	ug/L
132-64-9	Dibenzofuran	1700	U	1700	2500	5000	ug/L
121-14-2	2,4-Dinitrotoluene	970	U	970	2500	5000	ug/L
84-66-2	Diethylphthalate	1500	U	1500	2500	5000	ug/L
86-73-7	Fluorene	2000	U	2000	2500	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1900	U	1900	2500	5000	ug/L
100-01-6	4-Nitroaniline	600	U	600	5000	10000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	5000	10000	ug/L
86-30-6	N-Nitrosodiphenylamine	1700	U	1700	2500	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1800	U	1800	2500	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	2700	U	2700	2500	5000	ug/L
118-74-1	Hexachlorobenzene	1900	U	1900	2500	5000	ug/L
1912-24-9	Atrazine	1200	U	1200	5000	10000	ug/L
87-86-5	Pentachlorophenol	1700	U	1700	5000	10000	ug/L
85-01-8	Phenanthrene	1800	U	1800	2500	5000	ug/L
608-93-5	Pentachlorobenzene	1300	U	1300	2500	5000	ug/L
120-12-7	Anthracene	1700	U	1700	2500	5000	ug/L
634-66-2	1,2,3,4-Tetrachlorobenzene	750	U	750	2500	5000	ug/L
86-74-8	Carbazole	2000	U	2000	5000	10000	ug/L
84-74-2	Di-n-butylphthalate	1700	U	1700	2500	5000	ug/L
206-44-0	Fluoranthene	1700	U	1700	5000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	SP6490			SDG No.:	BN050324
Lab Sample ID:	SP6490			Matrix:	Water
Analytical Method:	SFAM_SVOC			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN031391.D	1		5/3/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
129-00-0	Pyrene	1700	U	1700	2500	5000	ug/L
85-68-7	Butylbenzylphthalate	1500	U	1500	2500	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	1400	U	1400	5000	10000	ug/L
56-55-3	Benzo(a)anthracene	1500	U	1500	2500	5000	ug/L
218-01-9	Chrysene	1700	U	1700	2500	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1500	U	1500	2500	5000	ug/L
117-84-0	Di-n-octyl phthalate	1300	U	1300	5000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	1600	U	1600	2500	5000	ug/L
207-08-9	Benzo(k)fluoranthene	2200	U	2200	2500	5000	ug/L
50-32-8	Benzo(a)pyrene	2000	U	2000	2500	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U	1900	2500	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	2000	U	2000	2500	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	1900	U	1900	2500	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U	1800	2500	5000	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	17955	*	15-120		224438	SPK: -8
7291-22-7	Pyridine-d5	94074	*	20-120		235185	SPK: -40
4165-62-2	Phenol-d5	87165	*	10-130		217913	SPK: -40
93952-02-4	Bis-(2-Chloroethyl)ether-d8	87673	*	25-120		219182	SPK: -40
93951-73-6	2-Chlorophenol-d4	90860	*	20-130		227150	SPK: -40
190780-66-6	4-Methylphenol-d8	89823	*	25-125		224557	SPK: -40
4165-60-0	Nitrobenzene-d5	90814	*	20-125		227035	SPK: -40
93951-78-1	2-Nitrophenol-d4	94287	*	20-130		235718	SPK: -40
93951-74-7	2,4-Dichlorophenol-d3	84853	*	20-120		212132	SPK: -40
191656-33-4	4-Chloroaniline-d4	92124	*	1-146		230310	SPK: -40
85448-30-2	Dimethylphthalate-d6	87509	*	25-130		218773	SPK: -40
93951-97-4	Acenaphthylene-d8	85065	*	10-130		212663	SPK: -40
93951-79-2	4-Nitrophenol-d4	89423	*	10-150		223557	SPK: -40
81103-79-9	Fluorene-d10	83413	*	25-125		208532	SPK: -40

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Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	SP6490			SDG No.:	BN050324		
Lab Sample ID:	SP6490			Matrix:	Water		
Analytical Method:	SFAM_SVOC			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000		uL
Soil Aliquot Vol:			uL	Test:			
Extraction Type :			Decanted :	Level :	LOW		
Injection Volume :			GPC Factor :	GPC Cleanup :		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN031391.D	1		5/3/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
93951-76-9	4,6-Dinitro-2-methylphenol-d2	85300	*	10-130		213250	SPK: -40
1719-06-8	Anthracene-d10	84904	*	25-130		212260	SPK: -40
1718-52-1	Pyrene-d10	79832	*	15-130		199580	SPK: -40
63466-71-7	Benzo(a)pyrene-d12	89715	*	20-130		224288	SPK: -40
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	122098	7.593				
1146-65-2	Naphthalene-d8	526498	10.375				
15067-26-2	Acenaphthene-d10	359320	14.245				
1517-22-2	Phenanthrene-d10	755356	16.998				
1719-03-5	Chrysene-d12	684833	21.233				
1520-96-3	Perylene-d12	635457	24.115				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1900	U			99	ug/L

CHEMTECH
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Hit Summary Sheet
SW-846

SDG No.: BN050324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : SP6490								
SP6490	SP6490	Water	Total Alkanes	* 0.000		1900	5000	ug/L
			Total Tics :			**0.00**		
			Total Concentration:			**0.00**		

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN050324 SAS No.: BN050324 SDG No.: BN050324

Instrument ID: Calibration Date(s): 5/3/2024 1:

Calibration Time(s): 10:24

LAB FILE ID: RRFAL1 = BN031384.D RRFAL2 = BN031385.D RRFAL3 = BN031386.D
RRFAL4 = BN031387.D RRFAL5 = BN031388.D RRFAL6 = BN031389.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.420	0.482	0.458	0.468	0.477		0.461	5.3
Benzaldehyde		0.843	0.797	0.840	0.675	0.459	0.723	22.5
Pyridine		1.166	1.190	1.234	1.248	1.203	1.208	2.7
Hexachloroethane	0.559	0.590	0.586	0.601	0.597		0.587	2.8
Nitrobenzene	0.329	0.360	0.365	0.370	0.361		0.357	4.6
Isophorone	0.641	0.684	0.696	0.700	0.673		0.679	3.5
2-Nitrophenol	0.157	0.179	0.182	0.190	0.188		0.179	7.3
2,4-Dimethylphenol	0.327	0.345	0.363	0.361	0.352		0.349	4.2
Bis(2-Chloroethoxy)methane	0.380	0.405	0.405	0.400	0.390		0.396	2.7
2,4-Dichlorophenol	0.277	0.294	0.303	0.311	0.295		0.296	4.3
Naphthalene	1.037	1.061	1.032	1.026	0.999		1.031	2.1
4-Chloroaniline		0.417	0.424	0.424	0.402	0.347	0.403	8.0
Hexachlorobutadiene	0.206	0.203	0.206	0.212	0.210		0.207	1.7
Phenol		1.502	1.548	1.596	1.600	1.468	1.543	3.8
Caprolactam		0.098	0.102	0.103	0.095	0.082	0.096	8.8
4-Chloro-3-methylphenol	0.311	0.348	0.357	0.356	0.350		0.344	5.5
1-Methylnaphthalene	0.692	0.727	0.724	0.705	0.674		0.704	3.2
2-Methylnaphthalene	0.691	0.721	0.711	0.711	0.685		0.704	2.2
Hexachlorocyclopentadiene		0.302	0.325	0.393	0.406	0.426	0.371	14.6
2,4,6-Trichlorophenol	0.337	0.361	0.373	0.401	0.388		0.372	6.7
2,4,5-Trichlorophenol	0.368	0.391	0.406	0.426	0.409		0.400	5.4
1,1-Biphenyl	1.424	1.390	1.418	1.471	1.379		1.417	2.5
2-Chloronaphthalene	1.077	1.136	1.125	1.152	1.099		1.118	2.7
2-Nitroaniline	0.271	0.304	0.329	0.353	0.335		0.318	10.0
Bis(2-Chloroethyl)ether		1.228	1.241	1.257	1.260	1.161	1.230	3.3
Dimethylphthalate	1.435	1.474	1.532	1.525	1.398		1.473	3.9
2,6-Dinitrotoluene	0.258	0.287	0.303	0.320	0.302		0.294	7.9
Acenaphthylene	1.784	1.822	1.871	1.883	1.779		1.828	2.6
3-Nitroaniline		0.281	0.303	0.324	0.286	0.256	0.290	8.7
Acenaphthene	1.220	1.230	1.232	1.242	1.162		1.217	2.6
2,4-Dinitrophenol		0.141	0.167	0.192	0.189	0.185	0.175	12.2
4-Nitrophenol		0.256	0.285	0.290	0.259	0.234	0.265	8.7
Dibenzofuran	1.639	1.648	1.662	1.662	1.527		1.627	3.5
2,4-Dinitrotoluene	0.384	0.420	0.453	0.470	0.411		0.428	8.0
Diethylphthalate	1.469	1.535	1.606	1.607	1.446		1.533	4.9
2-Chlorophenol	1.248	1.327	1.330	1.363	1.379		1.329	3.8

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.: BN050324 SAS No.: BN050324 SDG No.: BN050324

Instrument ID: Calibration Date(s): 5/3/2024 1:

Calibration Time(s): 10:24

LAB FILE ID: RRFAL1 = BN031384.D RRFAL2 = BN031385.D RRFAL3 = BN031386.D
RRFAL4 = BN031387.D RRFAL5 = BN031388.D RRFAL6 = BN031389.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.402	1.378	1.406	1.370	1.219		1.355	5.7
4-Chlorophenyl-phenylether	0.699	0.699	0.697	0.669	0.607		0.674	5.8
4-Nitroaniline		0.277	0.286	0.303	0.233	0.187	0.257	18.2
4,6-Dinitro-2-methylphenol		0.117	0.128	0.131	0.133	0.129	0.127	4.9
N-Nitrosodiphenylamine	0.549	0.570	0.565	0.563	0.576		0.565	1.8
1,2,4,5-Tetrachlorobenzene	0.547	0.549	0.564	0.583	0.560		0.561	2.6
4-Bromophenyl-phenylether	0.193	0.196	0.207	0.205	0.207		0.201	3.3
Hexachlorobenzene	0.231	0.242	0.243	0.235	0.244		0.239	2.4
Atrazine		0.208	0.191	0.201	0.184	0.166	0.190	8.5
Pentachlorophenol		0.146	0.150	0.157	0.159	0.153	0.153	3.4
2-Methylphenol		1.143	1.207	1.242	1.240	1.139	1.194	4.2
Phenanthrene	1.034	1.041	1.072	1.021	0.992		1.032	2.8
Pentachlorobenzene	0.264	0.266	0.267	0.266	0.286		0.270	3.4
Anthracene	1.033	1.083	1.071	1.057	1.010		1.051	2.8
1,2,3,4-Tetrachlorobenzene	0.257	0.257	0.262	0.271	0.297		0.269	6.3
Carbazole		0.945	0.970	0.941	0.865	0.825	0.909	6.7
Di-n-butylphthalate	1.186	1.274	1.324	1.285	1.188		1.251	4.9
Fluoranthene	1.304	1.386	1.303	1.487	1.357		1.368	5.5
Pyrene	1.444	1.433	1.362	1.514	1.384		1.427	4.1
Butylbenzylphthalate	0.552	0.621	0.636	0.709	0.648		0.633	8.9
3,3-Dichlorobenzidine		0.356	0.396	0.399	0.364	0.344	0.372	6.7
2,2-oxybis(1-Chloropropane)		1.347	1.376	1.388	1.366	1.268	1.349	3.5
Benzo(a)anthracene	1.274	1.354	1.366	1.383	1.329		1.341	3.2
Chrysene	1.261	1.288	1.262	1.288	1.214		1.263	2.4
Bis(2-ethylhexyl)phthalate	0.788	0.876	0.940	0.984	0.893		0.897	8.2
Di-n-octyl phthalate		1.348	1.531	1.608	1.389	1.257	1.427	9.9
Benzo(b)fluoranthene	1.123	1.208	1.226	1.242	1.188		1.197	3.8
Benzo(k)fluoranthene	1.150	1.193	1.200	1.214	1.142		1.180	2.7
Benzo(a)pyrene	1.028	1.094	1.092	1.131	1.118		1.093	3.6
Indeno(1,2,3-cd)pyrene	1.231	1.290	1.166	1.372	1.454		1.303	8.7
Dibenzo(a,h)anthracene	1.012	1.076	0.997	1.148	1.192		1.085	7.8
Benzo(g,h,i)perylene	1.006	1.038	0.906	1.112	1.186		1.050	10.1
Acetophenone		2.072	2.105	2.062	1.996	1.768	2.001	6.8
2,3,4,6-Tetrachlorophenol	0.325	0.336	0.352	0.366	0.341		0.344	4.5
1,4-Dioxane-d8	0.479	0.477	0.442	0.455	0.458		0.462	3.4
Pyridine-d5		1.087	1.217	1.242	1.244	1.216	1.201	5.4

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.: BN050324 SAS No.: BN050324 SDG No.: BN050324

Instrument ID: Calibration Date(s): 5/3/2024 1:

Calibration Time(s): 10:24

LAB FILE ID: RRFAL1 = BN031384.D RRFAL2 = BN031385.D RRFAL3 = BN031386.D
RRFAL4 = BN031387.D RRFAL5 = BN031388.D RRFAL6 = BN031389.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Phenol-d5		1.471	1.506	1.564	1.597	1.486	1.525	3.5
Bis-(2-Chloroethyl)ether-d8		0.860	0.868	0.881	0.874	0.822	0.861	2.7
2-Chlorophenol-d4	1.155	1.246	1.272	1.332	1.353		1.272	6.2
4-Methylphenol-d8		1.204	1.278	1.304	1.325	1.211	1.265	4.3
Nitrobenzene-d5	0.138	0.147	0.152	0.158	0.158		0.151	5.6
2-Nitrophenol-d4	0.145	0.158	0.170	0.178	0.182		0.167	9.2
2,4-Dichlorophenol-d3	0.273	0.301	0.302	0.310	0.312		0.299	5.2
4-Chloroaniline-d4		0.435	0.430	0.440	0.417	0.362	0.417	7.6
4-Methylphenol		1.270	1.320	1.347	1.322	1.193	1.290	4.8
Dimethylphthalate-d6	1.439	1.444	1.472	1.487	1.353		1.439	3.6
Acenaphthylene-d8	1.500	1.561	1.612	1.677	1.568		1.584	4.1
4-Nitrophenol-d4		0.241	0.271	0.282	0.252	0.233	0.256	8.0
Fluorene-d10	1.155	1.187	1.217	1.215	1.107		1.176	3.9
4,6-Dinitro-2-methylphenol-		0.110	0.121	0.127	0.129	0.125	0.122	6.3
Anthracene-d10	0.848	0.874	0.906	0.883	0.844		0.871	3.0
Pyrene-d10	1.123	1.114	1.061	1.239	1.142		1.136	5.7
Benzo(a)pyrene-d12	0.883	0.942	0.954	0.995	0.995		0.954	4.9
N-Nitroso-di-n-propylamine	0.932	0.997	1.030	1.012	0.970		0.988	3.9

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN050324 SAS No.: BN050324 SDG NO.: BN050324

EPA Sample No.: SSTD020233 Date Analyzed: May 3 2024 12:00AM

Lab File ID: BN031386.D Time Analyzed: 14:21

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	126702	7.599	537272	10.38	355509	14.25
	UPPER LIMIT	253404	8.099	1074544	10.875	711018	14.746
	LOWER LIMIT	63351	7.099	268636	9.875	177754.5	13.746
	EPA SAMPLE NO.						
01	SICV237	133380	7.60	572565	10.38	377720	14.25
02	SP6490	122098	7.59	526498	10.38	359320	14.25

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.: BN050324 SAS No.: BN050324 SDG NO.: BN050324

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN050324 SAS No.: BN050324 SDG NO.: BN050324

EPA Sample No.: SSTD020233 Date Analyzed: May 3 2024 12:00AM

Lab File ID: BN031386.D Time Analyzed: 14:21

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	755671	16.998	733802	21.239	774389	24.116
	UPPER LIMIT	1511342	17.498	1467604	21.739	1548778	24.616
	LOWER LIMIT	377835.5	16.498	366901	20.739	387194.5	23.616
	EPA SAMPLE NO.						
01	SICV237	798706	17.00	684185	21.24	646862	24.11
02	SP6490	755356	17.00	684833	21.23	635457	24.12

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.: BN050324 SAS No.: BN050324 SDG NO.: BN050324

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.: BN050324

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.: BN050324

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	

CHEMTECH
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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SP6490

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN050324 SAS No.: BN050324 SDG NO.: BN050324

Lab File ID: BN031391.D Lab Sample ID: SP6490

Instrument ID: BNA_N Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 05/03/2024

Level: (low/med) LOW Time Analyzed: 17:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SP6490	SP6490	BN031391.D	05/03/2024

COMMENTS:

CHEMTECH
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Surrogate Summary

SW-846

SDG No.: BN050324

Client:

Analytical Method: SFAM_SVOC

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SP6490	SP6490	BN031391.D	1,4-Dioxane-d8	8	17,955.00	224438	*	15	120
			Pyridine-d5	40	94,074.00	235185	*	20	120
			Phenol-d5	40	87,165.00	217913	*	10	130
			Bis(2-Chloroethyl)ether-d8	40	87,673.00	219182	*	25	120
			2-Chlorophenol-d4	40	90,860.00	227150	*	20	130
			4-Methylphenol-d8	40	89,823.00	224557	*	25	125
			Nitrobenzene-d5	40	90,814.00	227035	*	20	125
			2-Nitrophenol-d4	40	94,287.00	235718	*	20	130
			2,4-Dichlorophenol-d3	40	84,853.00	212132	*	20	120
			4-Chloroaniline-d4	40	92,124.00	230310	*	1	146
			Dimethylphthalate-d6	40	87,509.00	218773	*	25	130
			Acenaphthylene-d8	40	85,065.00	212663	*	10	130
			4-Nitrophenol-d4	40	89,423.00	223557	*	10	150
			Fluorene-d10	40	83,413.00	208532	*	25	125
			4,6-Dinitro-2-methylphenol-d2	40	85,300.00	213250	*	10	130
			Anthracene-d10	40	84,904.00	212260	*	25	130
			Pyrene-d10	40	79,832.00	199580	*	15	130
			Benzo(a)pyrene-d12	40	89,715.00	224288	*	20	130

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BN050324

Lab Code: CHEM SAS No.: BN050324 SDG NO.: BN050324

Lab File ID: BN031383.D DFTPP Injection Date: 05/03/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	29.5
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	93.3
443	15.0 - 24.0% of mass 442	18 (19.3) 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
SSTD005231	SSTD00550	BN031384.D	05/03/2024	10:24
SSTD010232	SSTD01051	BN031385.D	05/03/2024	11:04
SSTD020233	SSTD02052	BN031386.D	05/03/2024	11:44
SSTD040234	SSTD04053	BN031387.D	05/03/2024	12:23
SSTD080235	SSTD08054	BN031388.D	05/03/2024	13:03
SSTD160236	SSTD16055	BN031389.D	05/03/2024	13:42
SICV237	SSTDICV020	BN031390.D	05/03/2024	14:21
SP6490	SP6490	BN031391.D	05/03/2024	17:46