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.: BM081024 SAS No.: BM081024 SDG No.: BM081024

Instrument ID: BNA_M Calibration Date/Time: 8/10/2024 12 15:51

Lab File ID: BM047144.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.594	0.570		-4.04	
Pyridine	1.360	1.302		-4.265	
2-Fluorophenol	1.119	1.071		-4.29	
Benzaldehyde	0.904	0.776		-14.159	
Aniline	1.458	1.428		-2.058	
Phenol-d6	1.542	1.478		-4.15	
Phenol	1.539	1.453		-5.588	20.0
bis(2-Chloroethyl)ether	1.318	1.283		-2.656	
2-Chlorophenol	1.221	1.185		-2.948	
1,2-Dichlorobenzene	1.386	1.314		-5.195	
1,3-Dichlorobenzene	1.451	1.408		-2.963	
1,4-Dichlorobenzene	1.469	1.429		-2.723	20.0
Benzyl Alcohol	1.098	1.098		0.0	
2-Methylphenol	1.027	1.003		-2.337	
2,2-oxybis(1-Chloropropane)	1.691	1.659		-1.892	
Acetophenone	0.483	0.462		-4.348	
3+4-Methylphenols	1.435	1.411		-1.672	
n-Nitroso-di-n-propylamine	1.039	0.982	0.050	-5.486	
Nitrobenzene-d5	0.397	0.390		-1.763	
Hexachloroethane	0.569	0.551		-3.163	
Nitrobenzene	0.400	0.393		-1.75	
Isophorone	0.692	0.688		-0.578	
2-Nitrophenol	0.177	0.182		2.825	20.0
2,4-Dimethylphenol	0.207	0.209		0.966	
bis(2-Chloroethoxy)methane	0.435	0.435		0.0	
2,4-Dichlorophenol	0.308	0.312		1.299	20.0
1,2,4-Trichlorobenzene	0.348	0.346		-0.575	
Benzoic acid	0.241	0.251		4.149	
Naphthalene	0.996	0.966		-3.012	
4-Chloroaniline	0.383	0.385		0.522	
Hexachlorobutadiene	0.204	0.203		-0.49	20.0
Caprolactam	0.107	0.109		1.869	
4-Chloro-3-methylphenol	0.328	0.328		0.0	20.0
2-Methylnaphthalene	0.709	0.689		-2.821	
Hexachlorocyclopentadiene	0.190	0.200	0.050	5.263	
2,4,6-Trichlorophenol	0.388	0.399		2.835	20.0
2-Fluorobiphenyl	1.297	1.265		-2.467	
2,4,5-Trichlorophenol	0.430	0.437		1.628	
1,1-Biphenyl	1.424	1.388		-2.528	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG No.: BM081024

Instrument ID: BNA_M Calibration Date/Time: 8/10/2024 12 15:51

Lab File ID: BM047144.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.113	1.071		-3.774	
2-Nitroaniline	0.349	0.357		2.292	
Dimethylphthalate	1.397	1.379		-1.288	
Acenaphthylene	1.640	1.602		-2.317	
2,6-Dinitrotoluene	0.327	0.328		0.306	
3-Nitroaniline	0.327	0.331		1.223	
Acenaphthene	1.041	1.008		-3.17	20.0
2,4-Dinitrophenol	0.196	0.204	0.050	4.082	
4-Nitrophenol	0.282	0.293	0.050	3.901	
Dibenzofuran	1.644	1.579		-3.954	
2,4-Dinitrotoluene	0.436	0.441		1.147	
Diethylphthalate	1.426	1.398		-1.964	
4-Chlorophenyl-phenylether	0.646	0.621		-3.87	
Fluorene	1.356	1.309		-3.466	
4-Nitroaniline	0.322	0.319		-0.932	
4,6-Dinitro-2-methylphenol	0.117	0.125		6.838	
n-Nitrosodiphenylamine	0.545	0.536		-1.651	20.0
Azobenzene	1.352	1.314		-2.811	
2,4,6-Tribromophenol	0.232	0.232		0.0	
4-Bromophenyl-phenylether	0.193	0.191		-1.036	
Hexachlorobenzene	0.231	0.229		-0.866	
Atrazine	0.164	0.170		3.659	
Pentachlorophenol	0.162	0.168		3.704	20.0
Phenanthrene	1.004	0.976		-2.789	
Anthracene	0.977	0.953		-2.456	
Carbazole	0.997	0.971		-2.608	
Di-n-butylphthalate	1.160	1.165		0.431	
Fluoranthene	1.221	1.199		-1.802	20.0
Benzidine	0.339	0.489		44.248	
Pyrene	1.428	1.425		-0.21	
Terphenyl-d14	0.933	0.937		0.429	
Butylbenzylphthalate	0.583	0.608		4.288	
3,3-Dichlorobenzidine	0.415	0.443		6.747	
Benzo(a)anthracene	1.328	1.300		-2.108	
Chrysene	1.260	1.224		-2.857	
Bis(2-ethylhexyl)phthalate	0.826	0.845		2.3	
Di-n-octyl phthalate	1.405	1.457		3.701	20.0
Benzo(b)fluoranthene	1.188	1.161		-2.273	
Benzo(k)fluoranthene	1.122	1.097		-2.228	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG No.: BM081024

Instrument ID: BNA_M Calibration Date/Time: 8/10/2024 12 15:51

Lab File ID: BM047144.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.029	1.024		-0.486	20.0
Indeno(1,2,3-cd)pyrene	1.293	1.279		-1.083	
Dibenzo(a,h)anthracene	1.046	1.021		-2.39	
Benzo(g,h,i)perylene	1.086	1.076		-0.921	
1,2,4,5-Tetrachlorobenzene	0.546	0.543		-0.549	
1,4-Dioxane	0.464	0.438		-5.603	20.0
2,3,4,6-Tetrachlorophenol	0.354	0.355		0.282	
1-Methylnaphthalene	0.701	0.681		-2.853	

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:	ICVBM081024		SDG No.:	BM081024	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% 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
BM047148.D	1		8/10/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	37300		1000	8000	10000	ug/L
110-86-1	Pyridine	38000		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	39500		4000	8000	10000	ug/L
62-53-3	Aniline	39100		1600	4000	5000	ug/L
108-95-2	Phenol	37500		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	38000		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	38900		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	38700		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38900		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	38800		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	39600		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	39200		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37800		1400	4000	5000	ug/L
98-86-2	Acetophenone	38100		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	39700		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37900		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	38400		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	39000		1300	4000	5000	ug/L
78-59-1	Isophorone	39600		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	41300		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	39500		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39000		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	41000		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	40300		1100	4000	5000	ug/L
65-85-0	Benzoic acid	43100		5500	8000	10000	ug/L
91-20-3	Naphthalene	38600		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	40300		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40300		1300	4000	5000	ug/L

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBM081024		SDG No.:	BM081024	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% 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
BM047148.D	1		8/10/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	40500		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	39800		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39000		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	41000		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	40800		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	41100		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	38600		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	38500		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	40200		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39400		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39300		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	40300		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	40400		1400	4000	5000	ug/L
83-32-9	Acenaphthene	38800		810	4000	5000	ug/L
Total PAH	Total PAH	629100		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	40300		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	41300		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	38800		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	40600		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	80900		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39100		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38800		980	4000	5000	ug/L
86-73-7	Fluorene	38900		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	40100		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	42500		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	39300		890	4000	5000	ug/L
103-33-3	Azobenzene	37900		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	40200		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	40100		1100	4000	5000	ug/L
1912-24-9	Atrazine	41300		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM081024			SDG No.:	BM081024
Lab Sample ID:	SSTDICV040			Matrix:	Water
Analytical Method:	8270E			% 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
BM047148.D	1		8/10/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	41500		1900	8000	10000	ug/L
85-01-8	Phenanthrene	39000		890	4000	5000	ug/L
120-12-7	Anthracene	39600		1100	4000	5000	ug/L
86-74-8	Carbazole	39100		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	39700		1500	4000	5000	ug/L
206-44-0	Fluoranthene	39000		1300	4000	5000	ug/L
92-87-5	Benzidine	59300		4100	8000	10000	ug/L
129-00-0	Pyrene	39300		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	41300		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	43100		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39100		940	4000	5000	ug/L
218-01-9	Chrysene	38700		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	40300		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	41300		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	38400		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39400		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39800		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	40500		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	40100		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	40600		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40600		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	36800		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40800		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	38900		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	75195	*	10-139		50130	SPK: -150
13127-88-3	Phenol-d6	76636	*	10-134		51091	SPK: -150
4165-60-0	Nitrobenzene-d5	77088	*	49-133		77088	SPK: -100
321-60-8	2-Fluorobiphenyl	78722	*	52-132		78722	SPK: -100

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM081024			SDG No.:	BM081024
Lab Sample ID:	SSTDICV040			Matrix:	Water
Analytical Method:	8270E			% 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
BM047148.D	1		8/10/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	81608	*	32-145		54405	SPK: -150
1718-51-0	Terphenyl-d14	79687	*	36-145		79687	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	296367	7.375				
1146-65-2	Naphthalene-d8	1206414	10.128				
15067-26-2	Acenaphthene-d10	800129	14.033				
1517-22-2	Phenanthrene-d10	1673175	16.792				
1719-03-5	Chrysene-d12	1477990	21.027				
1520-96-3	Perylene-d12	1812426	23.727				

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Report of Analysis

Client:				Date Collected:	8/7/2024 12:00:00 AM
Project:				Date Received:	8/7/2024 12:00:00 AM
Client Sample ID:	PB162577TB			SDG No.:	BM081024
Lab Sample ID:	PB162577TB			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 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
BM047149.D	1	8/7/2024 12:00:00 AM	8/10/2024 12:00:00 AM	PB162577

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1	U	1	8	10	ug/L
110-86-1	Pyridine	1.6	U	1.6	4	5	ug/L
100-52-7	Benzaldehyde	4	U	4	8	10	ug/L
62-53-3	Aniline	1.6	U	1.6	4	5	ug/L
108-95-2	Phenol	0.93	U	0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.2	U	1.2	4	5	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.8	U	0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	1.6	U	1.6	8	10	ug/L
95-48-7	2-Methylphenol	1.1	U	1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.4	U	1.4	4	5	ug/L
98-86-2	Acetophenone	1.1	U	1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	1.2	U	1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.5	U	1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	1	U	1	4	5	ug/L
98-95-3	Nitrobenzene	1.3	U	1.3	4	5	ug/L
78-59-1	Isophorone	1.1	U	1.1	4	5	ug/L
88-75-5	2-Nitrophenol	2	U	2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	1.5	U	1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1	U	1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.1	U	1.1	4	5	ug/L
65-85-0	Benzoic acid	5.5	U	5.5	8	10	ug/L
91-20-3	Naphthalene	1	U	1	4	5	ug/L
106-47-8	4-Chloroaniline	1.3	U	1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	1.3	U	1.3	4	5	ug/L

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Report of Analysis

Client:				Date Collected:	8/7/2024 12:00:00 AM
Project:				Date Received:	8/7/2024 12:00:00 AM
Client Sample ID:	PB162577TB			SDG No.:	BM081024
Lab Sample ID:	PB162577TB			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 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
BM047149.D	1	8/7/2024 12:00:00 AM	8/10/2024 12:00:00 AM	PB162577

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1.7	U	1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	1.1	4	5	ug/L
77-47-4	Hexachlorocyclopentadiene	5	U	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	1	U	1	4	5	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	4	5	ug/L
88-74-4	2-Nitroaniline	1.4	U	1.4	4	5	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	4	5	ug/L
208-96-8	Acenaphthylene	1	U	1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	1.2	U	1.2	4	5	ug/L
99-09-2	3-Nitroaniline	1.4	U	1.4	4	5	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	4	5	ug/L
Total PAH	Total PAH	17.36	U	17.36	4	80	ug/L
51-28-5	2,4-Dinitrophenol	6.4	U	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	2	U	2	8	10	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	2.7	U	2.7	4	10	ug/L
121-14-2	2,4-Dinitrotoluene	1.5	U	1.5	4	5	ug/L
84-66-2	Diethylphthalate	1	U	1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	4	5	ug/L
86-73-7	Fluorene	0.96	U	0.96	4	5	ug/L
100-01-6	4-Nitroaniline	2	U	2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.1	U	3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	4	5	ug/L
103-33-3	Azobenzene	1.2	U	1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	1.1	U	1.1	4	5	ug/L
1912-24-9	Atrazine	1.3	U	1.3	4	5	ug/L

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

Report of Analysis

Client:				Date Collected:	8/7/2024 12:00:00 AM
Project:				Date Received:	8/7/2024 12:00:00 AM
Client Sample ID:	PB162577TB			SDG No.:	BM081024
Lab Sample ID:	PB162577TB			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 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
BM047149.D	1	8/7/2024 12:00:00 AM	8/10/2024 12:00:00 AM	PB162577

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	1.9	U	1.9	8	10	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	4	5	ug/L
120-12-7	Anthracene	1.1	U	1.1	4	5	ug/L
86-74-8	Carbazole	1.2	U	1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	1.5	U	1.5	4	5	ug/L
206-44-0	Fluoranthene	1.3	U	1.3	4	5	ug/L
92-87-5	Benzidine	4.1	U	4.1	8	10	ug/L
129-00-0	Pyrene	1.1	U	1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	2.1	U	2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	1.3	U	1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	4	5	ug/L
218-01-9	Chrysene	0.86	U	0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.9	U	1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	2.5	U	2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	1.1	U	1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	1.2	U	1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	1.7	U	1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1	U	1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.2	U	1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	4	5	ug/L
123-91-1	1,4-Dioxane	1.3	U	1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	147.573		10-139		98	SPK: -150
13127-88-3	Phenol-d6	143.119		10-134		95	SPK: -150
4165-60-0	Nitrobenzene-d5	94.535		49-133		95	SPK: -100
321-60-8	2-Fluorobiphenyl	95.14		52-132		95	SPK: -100

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Report of Analysis

Client:				Date Collected:	8/7/2024 12:00:00 AM
Project:				Date Received:	8/7/2024 12:00:00 AM
Client Sample ID:	PB162577TB			SDG No.:	BM081024
Lab Sample ID:	PB162577TB			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 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
BM047149.D	1	8/7/2024 12:00:00 AM	8/10/2024 12:00:00 AM	PB162577

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	149.991		32-145		100	SPK: -150
1718-51-0	Terphenyl-d14	109.986		36-145		110	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	224898	7.375				
1146-65-2	Naphthalene-d8	851791	10.128				
15067-26-2	Acenaphthene-d10	564425	14.027				
1517-22-2	Phenanthrene-d10	1220847	16.792				
1719-03-5	Chrysene-d12	1072675	21.027				
1520-96-3	Perylene-d12	1222944	23.721				

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Hit Summary Sheet
SW-846

SDG No.: BM081024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBM081024**							
SSTDICV040	ICVBM081024	Water	1,1-Biphenyl	38,600.000		910	5000	ug/L
SSTDICV040	ICVBM081024	Water	1,2,4,5-Tetrachlorobenzene	40,600.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	1,2,4-Trichlorobenzene	40,300.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	1,2-Dichlorobenzene	38,700.000		880	5000	ug/L
SSTDICV040	ICVBM081024	Water	1,3-Dichlorobenzene	38,900.000		800	5000	ug/L
SSTDICV040	ICVBM081024	Water	1,4-Dichlorobenzene	38,800.000		840	5000	ug/L
SSTDICV040	ICVBM081024	Water	1,4-Dioxane	36,800.000		1300	5000	ug/L
SSTDICV040	ICVBM081024	Water	1-Methylnaphthalene	38,900.000		860	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,2-oxybis(1-Chloropropane)	37,800.000		1400	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,3,4,6-Tetrachlorophenol	40,800.000		790	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,4,5-Trichlorophenol	41,100.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,4,6-Trichlorophenol	40,800.000		890	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,4-Dichlorophenol	41,000.000		880	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,4-Dimethylphenol	39,500.000		1500	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,4-Dinitrophenol	40,300.000		6400	10000	ug/L
SSTDICV040	ICVBM081024	Water	2,4-Dinitrotoluene	40,600.000		1500	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,6-Dinitrotoluene	40,300.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	2-Chloronaphthalene	38,500.000		970	5000	ug/L
SSTDICV040	ICVBM081024	Water	2-Chlorophenol	38,900.000		710	5000	ug/L
SSTDICV040	ICVBM081024	Water	2-Methylnaphthalene	39,000.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	2-Methylphenol	39,200.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	2-Nitroaniline	40,200.000		1400	5000	ug/L
SSTDICV040	ICVBM081024	Water	2-Nitrophenol	41,300.000		2000	5000	ug/L
SSTDICV040	ICVBM081024	Water	3+4-Methylphenols	39,700.000		1200	10000	ug/L
SSTDICV040	ICVBM081024	Water	3,3-Dichlorobenzidine	43,100.000		1300	10000	ug/L
SSTDICV040	ICVBM081024	Water	3-Nitroaniline	40,400.000		1400	5000	ug/L
SSTDICV040	ICVBM081024	Water	4,6-Dinitro-2-methylphenol	42,500.000		3100	10000	ug/L
SSTDICV040	ICVBM081024	Water	4-Bromophenyl-phenylether	40,200.000		950	5000	ug/L
SSTDICV040	ICVBM081024	Water	4-Chloro-3-methylphenol	39,800.000		840	5000	ug/L
SSTDICV040	ICVBM081024	Water	4-Chloroaniline	40,300.000		1300	5000	ug/L
SSTDICV040	ICVBM081024	Water	4-Chlorophenyl-phenylether	38,800.000		980	5000	ug/L
SSTDICV040	ICVBM081024	Water	4-Nitroaniline	40,100.000		2000	5000	ug/L
SSTDICV040	ICVBM081024	Water	4-Nitrophenol	41,300.000		2000	10000	ug/L
SSTDICV040	ICVBM081024	Water	Acenaphthene	38,800.000		810	5000	ug/L
SSTDICV040	ICVBM081024	Water	Acenaphthylene	39,300.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	Acetophenone	38,100.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	Aniline	39,100.000		1600	5000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: BM081024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM081024	Water	Anthracene	39,600.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	Atrazine	41,300.000		1300	5000	ug/L
SSTDICV040	ICVBM081024	Water	Azobenzene	37,900.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	Benzaldehyde	39,500.000		4000	10000	ug/L
SSTDICV040	ICVBM081024	Water	Benzidine	59,300.000		4100	10000	ug/L
SSTDICV040	ICVBM081024	Water	Benzo(a)anthracene	39,100.000		940	5000	ug/L
SSTDICV040	ICVBM081024	Water	Benzo(a)pyrene	39,800.000		1700	5000	ug/L
SSTDICV040	ICVBM081024	Water	Benzo(b)fluoranthene	38,400.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	Benzo(g,h,i)perylene	40,600.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	Benzo(k)fluoranthene	39,400.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	Benzoic acid	43,100.000		5500	10000	ug/L
SSTDICV040	ICVBM081024	Water	Benzyl Alcohol	39,600.000		1600	10000	ug/L
SSTDICV040	ICVBM081024	Water	bis(2-Chloroethoxy)methane	39,000.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	bis(2-Chloroethyl)ether	38,000.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	Bis(2-ethylhexyl)phthalate	40,300.000		1900	5000	ug/L
SSTDICV040	ICVBM081024	Water	Butylbenzylphthalate	41,300.000		2100	5000	ug/L
SSTDICV040	ICVBM081024	Water	Caprolactam	40,500.000		1700	10000	ug/L
SSTDICV040	ICVBM081024	Water	Carbazole	39,100.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	Chrysene	38,700.000		860	5000	ug/L
SSTDICV040	ICVBM081024	Water	Di-n-butylphthalate	39,700.000		1500	5000	ug/L
SSTDICV040	ICVBM081024	Water	Di-n-octyl phthalate	41,300.000		2500	10000	ug/L
SSTDICV040	ICVBM081024	Water	Dibenzo(a,h)anthracene	40,100.000		1200	5000	ug/L
SSTDICV040	ICVBM081024	Water	Dibenzofuran	38,800.000		930	5000	ug/L
SSTDICV040	ICVBM081024	Water	Diethylphthalate	39,100.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	Dimethylphthalate	39,400.000		930	5000	ug/L
SSTDICV040	ICVBM081024	Water	Fluoranthene	39,000.000		1300	5000	ug/L
SSTDICV040	ICVBM081024	Water	Fluorene	38,900.000		960	5000	ug/L
SSTDICV040	ICVBM081024	Water	Hexachlorobenzene	40,100.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	Hexachlorobutadiene	40,300.000		1300	5000	ug/L
SSTDICV040	ICVBM081024	Water	Hexachlorocyclopentadiene	41,000.000		5000	10000	ug/L
SSTDICV040	ICVBM081024	Water	Hexachloroethane	38,400.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	Indeno(1,2,3-cd)pyrene	40,500.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	Isophorone	39,600.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	n-Nitroso-di-n-propylamine	37,900.000		1500	2500	ug/L
SSTDICV040	ICVBM081024	Water	n-Nitrosodimethylamine	37,300.000		1000	10000	ug/L
SSTDICV040	ICVBM081024	Water	n-Nitrosodiphenylamine	39,300.000		890	5000	ug/L
SSTDICV040	ICVBM081024	Water	Naphthalene	38,600.000		1000	5000	ug/L
SSTDICV040	ICVBM081024	Water	Nitrobenzene	39,000.000		1300	5000	ug/L
SSTDICV040	ICVBM081024	Water	Pentachlorophenol	41,500.000		1900	10000	ug/L
SSTDICV040	ICVBM081024	Water	Phenanthrene	39,000.000		890	5000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: BM081024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM081024	Water	Phenol	37,500.000		930	5000	ug/L
SSTDICV040	ICVBM081024	Water	Pyrene	39,300.000		1100	5000	ug/L
SSTDICV040	ICVBM081024	Water	Pyridine	38,000.000		1600	5000	ug/L
SSTDICV040	ICVBM081024	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	80,900.000		2700	10000	ug/L
SSTDICV040	ICVBM081024	Water	Total PAH	629,100.000		17360	80000	ug/L
			Total Svoc :	**3,900,500.00**				
			Total Concentration:	**3,900,500.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG No.: BM081024

Instrument ID: Calibration Date(s): 8/10/2024

Calibration Time(s): 13:12

LAB FILE ID: RRF2.5 = BM047140.D RRF005 = BM047141.D RRF010 = BM047142.D
RRF020 = BM047143.D RRF040 = BM047144.D RRF050 = BM047145.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.643	0.612	0.629	0.570	0.564	0.594	5.7
Pyridine		1.448	1.390	1.458	1.302	1.299	1.360	5.2
2-Fluorophenol		1.215	1.184	1.197	1.071	1.050	1.119	6.7
Benzaldehyde		1.187	1.048	1.024	0.776	0.750	0.904	23.4
Aniline		1.546	1.516	1.583	1.428	1.401	1.458	6.3
Phenol-d6		1.643	1.599	1.652	1.478	1.470	1.542	5.5
Phenol		1.695	1.600	1.645	1.453	1.450	1.539	6.8
bis(2-Chloroethyl)ether		1.431	1.361	1.407	1.283	1.267	1.318	6.2
2-Chlorophenol		1.306	1.271	1.324	1.185	1.167	1.221	6.4
1,2-Dichlorobenzene		1.526	1.468	1.514	1.314	1.308	1.386	8.1
1,3-Dichlorobenzene		1.567	1.506	1.537	1.408	1.394	1.451	5.8
1,4-Dichlorobenzene		1.581	1.532	1.562	1.429	1.405	1.469	5.9
Benzyl Alcohol		1.083	1.074	1.189	1.098	1.076	1.098	3.9
2-Methylphenol		1.064	1.055	1.115	1.003	0.998	1.027	5.2
2,2-oxybis(1-Chloropropane)		1.904	1.777	1.859	1.659	1.616	1.691	9.5
Acetophenone		0.547	0.517	0.510	0.462	0.450	0.483	8.6
3+4-Methylphenols		1.462	1.442	1.570	1.411	1.405	1.435	4.8
n-Nitroso-di-n-propylamine	1.087	1.169	1.095	1.138	0.982	0.965	1.039	9.1
Nitrobenzene-d5		0.423	0.417	0.420	0.390	0.378	0.397	5.5
Hexachloroethane		0.609	0.577	0.600	0.551	0.553	0.569	4.8
Nitrobenzene		0.425	0.427	0.428	0.393	0.380	0.400	6.4
Isophorone		0.712	0.706	0.732	0.688	0.668	0.692	3.8
2-Nitrophenol		0.156	0.166	0.180	0.182	0.182	0.177	6.6
2,4-Dimethylphenol		0.200	0.209	0.217	0.209	0.206	0.207	2.6
bis(2-Chloroethoxy)methane		0.461	0.461	0.458	0.435	0.421	0.435	6.0
2,4-Dichlorophenol		0.289	0.300	0.318	0.312	0.310	0.308	3.3
1,2,4-Trichlorobenzene		0.357	0.352	0.359	0.346	0.340	0.348	2.3
Benzoic acid		0.182	0.212	0.240	0.251	0.262	0.241	13.8
Naphthalene		1.075	1.041	1.042	0.966	0.949	0.996	5.5
4-Chloroaniline		0.382	0.393	0.409	0.385	0.374	0.383	3.8
Hexachlorobutadiene		0.199	0.200	0.207	0.203	0.203	0.204	2.0
Caprolactam		0.098	0.103	0.112	0.109	0.107	0.107	4.5
4-Chloro-3-methylphenol		0.320	0.324	0.347	0.328	0.323	0.328	2.7
2-Methylnaphthalene		0.741	0.730	0.742	0.689	0.681	0.709	3.8
Hexachlorocyclopentadiene		0.160	0.180	0.191	0.200	0.199	0.190	8.5
2,4,6-Trichlorophenol		0.355	0.372	0.394	0.399	0.394	0.388	4.5

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.: BM081024 SAS No.: BM081024 SDG No.: BM081024

Instrument ID: Calibration Date(s): 8/10/2024

Calibration Time(s): 13:12

LAB FILE ID: RRF2.5 = BM047140.D RRF005 = BM047141.D RRF010 = BM047142.D
RRF020 = BM047143.D RRF040 = BM047144.D RRF050 = BM047145.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.406	1.341	1.336	1.265	1.247	1.297	5.1
2,4,5-Trichlorophenol		0.410	0.410	0.438	0.437	0.436	0.430	3.4
1,1-Biphenyl		1.538	1.482	1.479	1.388	1.361	1.424	5.3
2-Chloronaphthalene		1.197	1.169	1.176	1.071	1.060	1.113	5.8
2-Nitroaniline		0.323	0.346	0.367	0.357	0.352	0.349	3.9
Dimethylphthalate		1.472	1.433	1.468	1.379	1.343	1.397	4.4
Acenaphthylene		1.719	1.699	1.732	1.602	1.575	1.640	4.5
2,6-Dinitrotoluene		0.311	0.325	0.337	0.328	0.326	0.327	2.6
3-Nitroaniline		0.310	0.317	0.344	0.331	0.328	0.327	3.5
Acenaphthene		1.115	1.079	1.086	1.008	0.991	1.041	4.9
2,4-Dinitrophenol			0.152	0.185	0.204	0.204	0.196	12.3
4-Nitrophenol		0.247	0.268	0.293	0.293	0.291	0.282	6.4
Dibenzofuran		1.790	1.731	1.728	1.579	1.559	1.644	6.2
2,4-Dinitrotoluene		0.400	0.435	0.460	0.441	0.440	0.436	4.2
Diethylphthalate		1.505	1.486	1.506	1.398	1.365	1.426	5.0
4-Chlorophenyl-phenylether		0.681	0.663	0.663	0.621	0.619	0.646	3.8
Fluorene		1.469	1.428	1.426	1.309	1.290	1.356	6.0
4-Nitroaniline		0.300	0.324	0.346	0.319	0.317	0.322	4.2
4,6-Dinitro-2-methylphenol		0.092	0.107	0.120	0.125	0.126	0.117	11.3
n-Nitrosodiphenylamine		0.570	0.561	0.573	0.536	0.526	0.545	4.2
Azobenzene		1.455	1.445	1.457	1.314	1.280	1.352	7.1
2,4,6-Tribromophenol		0.222	0.233	0.248	0.232	0.228	0.232	3.6
4-Bromophenyl-phenylether		0.190	0.190	0.198	0.191	0.191	0.193	1.9
Hexachlorobenzene		0.236	0.234	0.240	0.229	0.226	0.231	2.7
Atrazine		0.183	0.186	0.182	0.170	0.152	0.164	13.5
Pentachlorophenol		0.141	0.152	0.165	0.168	0.166	0.162	6.9
Phenanthrene		1.090	1.035	1.036	0.976	0.967	1.004	5.0
Anthracene		1.024	1.000	1.026	0.953	0.946	0.977	4.1
Carbazole		1.071	1.041	1.052	0.971	0.954	0.997	5.6
Di-n-butylphthalate		1.175	1.187	1.223	1.165	1.134	1.160	3.5
Fluoranthene		1.294	1.239	1.255	1.199	1.179	1.221	3.6
Benzidine		0.226	0.190	0.373	0.489	0.370	0.339	30.0
Pyrene		1.456	1.398	1.443	1.425	1.414	1.428	1.5
Terphenyl-d14		0.924	0.916	0.958	0.937	0.928	0.933	1.6
Butylbenzylphthalate		0.511	0.552	0.600	0.608	0.599	0.583	6.5
3,3-Dichlorobenzidine		0.373	0.390	0.439	0.443	0.427	0.415	6.2

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.: BM081024 SAS No.: BM081024 SDG No.: BM081024

Instrument ID: Calibration Date(s): 8/10/2024

Calibration Time(s): 13:12

LAB FILE ID: RRF2.5 = BM047140.D RRF005 = BM047141.D RRF010 = BM047142.D
RRF020 = BM047143.D RRF040 = BM047144.D RRF050 = BM047145.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.390	1.331	1.364	1.300	1.291	1.328	2.9
Chrysene		1.350	1.283	1.301	1.224	1.214	1.260	4.2
Bis(2-ethylhexyl)phthalate		0.771	0.808	0.867	0.845	0.832	0.826	3.8
Di-n-octyl phthalate		1.212	1.316	1.430	1.457	1.450	1.405	7.3
Benzo(b)fluoranthene		1.182	1.200	1.222	1.161	1.179	1.188	1.9
Benzo(k)fluoranthene		1.192	1.134	1.175	1.097	1.059	1.122	4.4
Benzo(a)pyrene		1.014	1.015	1.066	1.024	1.012	1.029	1.9
Indeno(1,2,3-cd)pyrene		1.326	1.280	1.366	1.279	1.278	1.293	3.4
Dibenzo(a,h)anthracene		1.096	1.051	1.119	1.021	1.021	1.046	4.4
Benzo(g,h,i)perylene		1.119	1.082	1.162	1.076	1.082	1.086	4.4
1,2,4,5-Tetrachlorobenzene		0.539	0.531	0.554	0.543	0.546	0.546	1.7
1,4-Dioxane		0.519	0.490	0.495	0.438	0.436	0.464	7.9
2,3,4,6-Tetrachlorophenol		0.333	0.345	0.369	0.355	0.354	0.354	3.4
1-Methylnaphthalene		0.737	0.726	0.735	0.681	0.668	0.701	4.3

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG NO.: BM081024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BM047144.D Time Analyzed: 19:10

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	343346	7.375	1.38769e+0(	10.13	915049	14.03
	UPPER LIMIT	686692	7.875	2775380	10.634	1830098	14.533
	LOWER LIMIT	171673	6.875	693845	9.634	457524.5	13.533
	EPA SAMPLE NO.						
01	ICVBM081024	296367	7.38	1.20641e	10.13	800129	14.03
02	PB162577TB	224898	7.38	851791	10.13	564425	14.03

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.: BM081024 SAS No.: BM081024 SDG NO.: BM081024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BM047144.D Time Analyzed: 19:10

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	343346	7.375	1.38769e+0(	10.13	915049	14.03
	UPPER LIMIT	686692	7.875	2775380	10.634	1830098	14.533
	LOWER LIMIT	171673	6.875	693845	9.634	457524.5	13.533
	EPA SAMPLE NO.						
01	ICVBM081024	296367	7.38	1.20641e	10.13	800129	14.03
02	PB162577TB	224898	7.38	851791	10.13	564425	14.03

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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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG NO.: BM081024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BM047144.D Time Analyzed: 19:10

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	1.90156e+0(	16.792	1.67411e+	21.033	2.01924e+0(	23.727
	UPPER LIMIT	3803120	17.292	3348220	21.533	4038480	24.227
	LOWER LIMIT	950780	16.292	837055	20.533	1009620	23.227
	EPA SAMPLE NO.						
01	ICVBM081024	1.67318	16.79	1.47799e+	21.03	1.81243e+	23.73
02	PB162577TB	1.22085	16.79	1.07268e+	21.03	1.22294e+	23.72

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.: BM081024 SAS No.: BM081024 SDG NO.: BM081024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BM047144.D Time Analyzed: 19:10

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	1.90156e+0(	16.792	1.67411e+	21.033	2.01924e+0(	23.727
	UPPER LIMIT	3803120	17.292	3348220	21.533	4038480	24.227
	LOWER LIMIT	950780	16.292	837055	20.533	1009620	23.227
	EPA SAMPLE NO.						
01	ICVBM081024	1.67318	16.79	1.47799e+	21.03	1.81243e+	23.73
02	PB162577TB	1.22085	16.79	1.07268e+	21.03	1.22294e+	23.72

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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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBM081024

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG NO.: BM081024

Lab File ID: BM047148.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_M Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 08/10/2024

Level: (low/med) LOW Time Analyzed: 19:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM081024	SSTDICV040	BM047148.D	08/10/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162577TB

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM081024 SAS No.: BM081024 SDG NO.: BM081024

Lab File ID: BM047149.D Lab Sample ID: PB162577TB

Instrument ID: BNA_M Date Extracted: 08/07/2024

Matrix: (soil/water) Water Date Analyzed: 08/10/2024

Level: (low/med) LOW Time Analyzed: 19:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162577TB	PB162577TB	BM047149.D	08/10/2024

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BM081024

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBM081024	BM047148.D	2-Fluorophenol	150	75,195.00	50130	*	10	139
			Phenol-d6	150	76,636.00	51091	*	10	134
			Nitrobenzene-d5	100	77,088.00	77088	*	49	133
			2-Fluorobiphenyl	100	78,722.00	78722	*	52	132
			2,4,6-Tribromophenol	150	81,608.00	54405	*	32	145
			Terphenyl-d14	100	79,687.00	79687	*	36	145

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Surrogate Summary

SW-846

SDG No.: BM081024

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB162577TB	PB162577TB	BM047149.D	2-Fluorophenol	150	147.57	98		10	139
			Phenol-d6	150	143.12	95		10	134
			Nitrobenzene-d5	100	94.54	95		49	133
			2-Fluorobiphenyl	100	95.14	95		52	132
			2,4,6-Tribromophenol	150	149.99	100		32	145
			Terphenyl-d14	100	109.99	110		36	145

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM081024

Lab Code: CHEM SAS No.: BM081024 SDG NO.: BM081024

Lab File ID: BM047139.D DFTPP Injection Date: 08/10/2024

Instrument ID: BNA_M DFTPP Injection Time: 12:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.7
68	Less than 2.0% of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	44.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.9
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	7
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	9.2
442	Greater than 50% of mass 198	58.1
443	15.0 - 24.0% of mass 442	11.4 (19.7) 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
SSTDICC2.5	SSTDICC2.5	BM047140.D	08/10/2024	13:12
SSTDICC005	SSTDICC005	BM047141.D	08/10/2024	13:52
SSTDICC010	SSTDICC010	BM047142.D	08/10/2024	14:31
SSTDICC020	SSTDICC020	BM047143.D	08/10/2024	15:11
SSTDICCC040	SSTDICCC040	BM047144.D	08/10/2024	15:51
SSTDICC050	SSTDICC050	BM047145.D	08/10/2024	16:31
SSTDICC060	SSTDICC060	BM047146.D	08/10/2024	17:11
SSTDICC080	SSTDICC080	BM047147.D	08/10/2024	17:51
ICVBM081024	SSTDICV040	BM047148.D	08/10/2024	19:10
PB162577TB	PB162577TB	BM047149.D	08/10/2024	19:50