284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG No.: BF082624

Instrument ID: BNA_F Calibration Date/Time: 8/26/2024 12 09:43

Lab File ID: BF139159.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s):

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.856	0.791		-7.593	
Pyridine	1.417	1.457		2.823	
2-Fluorophenol	1.300	1.273		-2.077	
Benzaldehyde	0.985	1.034		4.975	
Aniline	1.516	1.581		4.288	
Phenol-d6	1.680	1.707		1.607	
Phenol	1.748	1.799		2.918	20.0
bis(2-Chloroethyl)ether	1.406	1.304		-7.255	
2-Chlorophenol	1.250	1.275		2.0	
1,2-Dichlorobenzene	1.374	1.404		2.183	
1,3-Dichlorobenzene	1.503	1.497		-0.399	
1,4-Dichlorobenzene	1.503	1.503		0.0	20.0
Benzyl Alcohol	1.328	1.393		4.895	
2-Methylphenol	1.070	1.101		2.897	
2,2-oxybis(1-Chloropropane)	1.980	1.889		-4.596	
Acetophenone	0.511	0.533		4.305	
3+4-Methylphenols	1.386	1.429		3.102	
n-Nitroso-di-n-propylamine	1.103	1.087	0.050	-1.451	
Nitrobenzene-d5	0.343	0.448		30.612	
Hexachloroethane	0.527	0.539		2.277	
Nitrobenzene	0.382	0.466		21.99	
Isophorone	0.730	0.779		6.712	
2-Nitrophenol	0.110	0.171		55.455	20.0
2,4-Dimethylphenol	0.231	0.240		3.896	
bis(2-Chloroethoxy)methane	0.426	0.441		3.521	
2,4-Dichlorophenol	0.288	0.306		6.25	20.0
1,2,4-Trichlorobenzene	0.337	0.345		2.374	
Benzoic acid	0.167	0.236		41.317	
Naphthalene	1.014	1.066		5.128	
4-Chloroaniline	0.347	0.374		7.781	
Hexachlorobutadiene	0.220	0.229		4.091	20.0
Caprolactam	0.091	0.105		15.385	
4-Chloro-3-methylphenol	0.319	0.356		11.599	20.0
2-Methylnaphthalene	0.650	0.688		5.846	
Hexachlorocyclopentadiene	0.210	0.224	0.050	6.667	
2,4,6-Trichlorophenol	0.370	0.393		6.216	20.0
2-Fluorobiphenyl	1.261	1.279		1.427	
2,4,5-Trichlorophenol	0.379	0.410		8.179	
1,1-Biphenyl	1.370	1.458		6.423	

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Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG No.: BF082624

Instrument ID: BNA_F Calibration Date/Time: 8/26/2024 12 09:43

Lab File ID: BF139159.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s):

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.113	1.146		2.965	
2-Nitroaniline	0.262	0.391		49.237	
Dimethylphthalate	1.235	1.333		7.935	
Acenaphthylene	1.595	1.666		4.451	
2,6-Dinitrotoluene	0.206	0.303		47.087	
3-Nitroaniline	0.213	0.300		40.845	
Acenaphthene	1.053	1.115		5.888	20.0
2,4-Dinitrophenol	0.074	0.130	0.050	75.676	
4-Nitrophenol	0.187	0.230	0.050	22.995	
Dibenzofuran	1.530	1.605		4.902	
2,4-Dinitrotoluene	0.250	0.399		59.6	
Diethylphthalate	1.223	1.312		7.277	
4-Chlorophenyl-phenylether	0.611	0.639		4.583	
Fluorene	1.223	1.276		4.334	
4-Nitroaniline	0.219	0.296		35.16	
4,6-Dinitro-2-methylphenol	0.064	0.107		67.187	
n-Nitrosodiphenylamine	0.592	0.610		3.041	20.0
Azobenzene	1.360	1.425		4.779	
2,4,6-Tribromophenol	0.181	0.215		18.785	
4-Bromophenyl-phenylether	0.212	0.229		8.019	
Hexachlorobenzene	0.227	0.241		6.167	
Atrazine	0.181	0.167		-7.735	
Pentachlorophenol	0.145	0.165		13.793	20.0
Phenanthrene	1.017	1.037		1.967	
Anthracene	0.994	1.019		2.515	
Carbazole	0.928	0.930		0.216	
Di-n-butylphthalate	1.076	1.101		2.323	
Fluoranthene	1.085	1.047		-3.502	20.0
Benzidine	0.413	0.593		43.584	
Pyrene	1.669	1.930		15.638	
Terphenyl-d14	1.205	1.431		18.755	
Butylbenzylphthalate	0.577	0.666		15.425	
3,3-Dichlorobenzidine	0.367	0.413		12.534	
Benzo(a)anthracene	1.315	1.350		2.662	
Chrysene	1.192	1.246		4.53	
Bis(2-ethylhexyl)phthalate	0.765	0.860		12.418	
Di-n-octyl phthalate	1.074	1.197		11.453	20.0
Benzo(b)fluoranthene	1.304	1.321		1.304	
Benzo(k)fluoranthene	1.086	1.070		-1.473	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG No.: BF082624

Instrument ID: BNA_F Calibration Date/Time: 8/26/2024 12 09:43

Lab File ID: BF139159.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s):

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.030	1.072		4.078	20.0
Indeno(1,2,3-cd)pyrene	1.171	1.404		19.898	
Dibenzo(a,h)anthracene	0.961	1.166		21.332	
Benzo(g,h,i)perylene	0.969	1.174		21.156	
1,2,4,5-Tetrachlorobenzene	0.609	0.583		-4.269	
1,4-Dioxane	0.558	0.558		0.0	20.0
2,3,4,6-Tetrachlorophenol	0.305	0.343		12.459	
1-Methylnaphthalene	0.627	0.678		8.134	

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BF082624
Lab Sample ID:	PB162917BL			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
BF139160.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

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:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BF082624
Lab Sample ID:	PB162917BL			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
BF139160.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

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
121-14-2	2,4-Dinitrotoluene	1.5	U	1.5	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	2.7	U	2.7	4	10	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

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Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BF082624
Lab Sample ID:	PB162917BL			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
BF139160.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

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	144.725		10-139		96	SPK: -150
13127-88-3	Phenol-d6	144.427		10-134		96	SPK: -150
4165-60-0	Nitrobenzene-d5	123.589		49-133		124	SPK: -100
321-60-8	2-Fluorobiphenyl	97.355		52-132		97	SPK: -100

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Report of Analysis

Client:				Date Collected:	8/22/2024 12:00:00 AM
Project:				Date Received:	8/22/2024 12:00:00 AM
Client Sample ID:	PB162917BL			SDG No.:	BF082624
Lab Sample ID:	PB162917BL			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
BF139160.D	1	8/22/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162917

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	179.877		44-137		120	SPK: -150
1718-51-0	Terphenyl-d14	106.655		48-125		107	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	96502	6.898				
1146-65-2	Naphthalene-d8	378225	8.175				
15067-26-2	Acenaphthene-d10	226105	9.933				
1517-22-2	Phenanthrene-d10	434729	11.422				
1719-03-5	Chrysene-d12	297750	14.057				
1520-96-3	Perylene-d12	204481	15.539				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	4.6	J			2.299	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	7.1	A			5.145	

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Report of Analysis

Client:				Date Collected:	8/19/2024 12:00:00 AM
Project:				Date Received:	8/19/2024 12:00:00 AM
Client Sample ID:	S-904-J-SO-0-0.5-081924DL			SDG No.:	BF082624
Lab Sample ID:	P3671-01DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	28.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139161.D	5	8/21/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	610	U	610	1900	2300	ug/Kg
110-86-1	Pyridine	560	U	560	910	1200	ug/Kg
100-52-7	Benzaldehyde	1300	U	1300	1900	2300	ug/Kg
62-53-3	Aniline	680	U	680	910	1200	ug/Kg
108-95-2	Phenol	580	U	580	910	1200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	590	U	590	910	1200	ug/Kg
95-57-8	2-Chlorophenol	580	U	580	910	1200	ug/Kg
95-50-1	1,2-Dichlorobenzene	590	U	590	910	1200	ug/Kg
541-73-1	1,3-Dichlorobenzene	600	U	600	910	1200	ug/Kg
106-46-7	1,4-Dichlorobenzene	610	U	610	910	1200	ug/Kg
100-51-6	Benzyl Alcohol	580	U	580	1900	2300	ug/Kg
95-48-7	2-Methylphenol	560	U	560	910	1200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	640	U	640	910	1200	ug/Kg
98-86-2	Acetophenone	610	U	610	910	1200	ug/Kg
65794-96-9	3+4-Methylphenols	560	U	560	1900	2300	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	280	U	280	560	560	ug/Kg
67-72-1	Hexachloroethane	580	U	580	910	1200	ug/Kg
98-95-3	Nitrobenzene	640	U	640	910	1200	ug/Kg
78-59-1	Isophorone	590	U	590	910	1200	ug/Kg
88-75-5	2-Nitrophenol	660	U	660	910	1200	ug/Kg
105-67-9	2,4-Dimethylphenol	650	U	650	910	1200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	600	U	600	910	1200	ug/Kg
120-83-2	2,4-Dichlorophenol	530	U	530	910	1200	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	600	U	600	910	1200	ug/Kg
65-85-0	Benzoic acid	1700	U	1700	1900	2300	ug/Kg
91-20-3	Naphthalene	580	U	580	910	1200	ug/Kg
106-47-8	4-Chloroaniline	580	U	580	910	1200	ug/Kg
87-68-3	Hexachlorobutadiene	580	U	580	910	1200	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	8/19/2024 12:00:00 AM
Project:				Date Received:	8/19/2024 12:00:00 AM
Client Sample ID:	S-904-J-SO-0-0.5-081924DL			SDG No.:	BF082624
Lab Sample ID:	P3671-01DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	28.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139161.D	5	8/21/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	610	U	610	1900	2300	ug/Kg
59-50-7	4-Chloro-3-methylphenol	540	U	540	910	1200	ug/Kg
91-57-6	2-Methylnaphthalene	580	U	580	910	1200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1100	U	1100	1900	2300	ug/Kg
88-06-2	2,4,6-Trichlorophenol	500	U	500	910	1200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	520	U	520	910	1200	ug/Kg
92-52-4	1,1-Biphenyl	610	U	610	910	1200	ug/Kg
91-58-7	2-Chloronaphthalene	580	U	580	910	1200	ug/Kg
88-74-4	2-Nitroaniline	670	U	670	910	1200	ug/Kg
131-11-3	Dimethylphthalate	570	U	570	910	1200	ug/Kg
208-96-8	Acenaphthylene	610	U	610	910	1200	ug/Kg
606-20-2	2,6-Dinitrotoluene	580	U	580	910	1200	ug/Kg
99-09-2	3-Nitroaniline	620	U	620	910	1200	ug/Kg
83-32-9	Acenaphthene	790	JD	570	910	1200	ug/Kg
Total PAH	Total PAH	46620	D	9300	910	19200	ug/Kg
51-28-5	2,4-Dinitrophenol	1700	U	1700	1900	2300	ug/Kg
100-02-7	4-Nitrophenol	810	U	810	1900	2300	ug/Kg
132-64-9	Dibenzofuran	590	U	590	910	1200	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	1180	U	1180	910	2400	ug/Kg
121-14-2	2,4-Dinitrotoluene	600	U	600	910	1200	ug/Kg
84-66-2	Diethylphthalate	560	U	560	910	1200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	600	U	600	910	1200	ug/Kg
86-73-7	Fluorene	930	JD	600	910	1200	ug/Kg
100-01-6	4-Nitroaniline	750	U	750	910	1200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	820	U	820	1900	2300	ug/Kg
86-30-6	n-Nitrosodiphenylamine	570	U	570	910	1200	ug/Kg
103-33-3	Azobenzene	560	U	560	910	1200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	550	U	550	910	1200	ug/Kg
118-74-1	Hexachlorobenzene	600	U	600	910	1200	ug/Kg
1912-24-9	Atrazine	640	U	640	910	1200	ug/Kg

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Report of Analysis

Client:				Date Collected:	8/19/2024 12:00:00 AM
Project:				Date Received:	8/19/2024 12:00:00 AM
Client Sample ID:	S-904-J-SO-0-0.5-081924DL			SDG No.:	BF082624
Lab Sample ID:	P3671-01DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	28.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139161.D	5	8/21/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	540	U	540	1900	2300	ug/Kg
85-01-8	Phenanthrene	8200	D	590	910	1200	ug/Kg
120-12-7	Anthracene	2200	D	590	910	1200	ug/Kg
86-74-8	Carbazole	910	JD	560	910	1200	ug/Kg
84-74-2	Di-n-butylphthalate	590	U	590	910	1200	ug/Kg
206-44-0	Fluoranthene	7700	D	570	910	1200	ug/Kg
92-87-5	Benzidine	1100	U	1100	1900	2300	ug/Kg
129-00-0	Pyrene	7300	D	580	910	1200	ug/Kg
85-68-7	Butylbenzylphthalate	680	U	680	910	1200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	690	U	690	1900	2300	ug/Kg
56-55-3	Benzo(a)anthracene	3700	D	570	910	1200	ug/Kg
218-01-9	Chrysene	3700	D	560	910	1200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	640	U	640	910	1200	ug/Kg
117-84-0	Di-n-octyl phthalate	770	U	770	1900	2300	ug/Kg
205-99-2	Benzo(b)fluoranthene	3800	D	570	910	1200	ug/Kg
207-08-9	Benzo(k)fluoranthene	1400	D	580	910	1200	ug/Kg
50-32-8	Benzo(a)pyrene	3300	D	650	910	1200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500	D	550	910	1200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	570	U	570	910	1200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2100	D	560	910	1200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	610	U	610	910	1200	ug/Kg
123-91-1	1,4-Dioxane	770	U	770	910	1200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	520	U	520	910	1200	ug/Kg
90-12-0	1-Methylnaphthalene	580	U	580	1200	1200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	73.28		18-112		49	SPK: -150
13127-88-3	Phenol-d6	77.68		15-107		52	SPK: -150
4165-60-0	Nitrobenzene-d5	64.405		18-107		64	SPK: -100
321-60-8	2-Fluorobiphenyl	45.08		20-109		45	SPK: -100

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Report of Analysis

Client:				Date Collected:	8/19/2024 12:00:00 AM
Project:				Date Received:	8/19/2024 12:00:00 AM
Client Sample ID:	S-904-J-SO-0-0.5-081924DL			SDG No.:	BF082624
Lab Sample ID:	P3671-01DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	28.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139161.D	5	8/21/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	68.665		10-116		46	SPK: -150
1718-51-0	Terphenyl-d14	40.645		10-105		41	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	92486	6.898				
1146-65-2	Naphthalene-d8	347656	8.181				
15067-26-2	Acenaphthene-d10	198607	9.933				
1517-22-2	Phenanthrene-d10	323380	11.422				
1719-03-5	Chrysene-d12	172392	14.057				
1520-96-3	Perylene-d12	177359	15.539				

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Report of Analysis

Client:				Date Collected:	8/15/2024 12:00:00 AM
Project:				Date Received:	8/15/2024 12:00:00 AM
Client Sample ID:	S-908-K1-0-0.5-081524DL			SDG No.:	BF082624
Lab Sample ID:	P3641-03DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	14.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139162.D	5	8/16/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	510	U	510	1600	1900	ug/Kg
110-86-1	Pyridine	470	U	470	760	1000	ug/Kg
100-52-7	Benzaldehyde	1100	U	1100	1600	1900	ug/Kg
62-53-3	Aniline	570	U	570	760	1000	ug/Kg
108-95-2	Phenol	490	U	490	760	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	490	U	490	760	1000	ug/Kg
95-57-8	2-Chlorophenol	490	U	490	760	1000	ug/Kg
95-50-1	1,2-Dichlorobenzene	500	U	500	760	1000	ug/Kg
541-73-1	1,3-Dichlorobenzene	500	U	500	760	1000	ug/Kg
106-46-7	1,4-Dichlorobenzene	510	U	510	760	1000	ug/Kg
100-51-6	Benzyl Alcohol	490	U	490	1600	1900	ug/Kg
95-48-7	2-Methylphenol	470	U	470	760	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	530	U	530	760	1000	ug/Kg
98-86-2	Acetophenone	510	U	510	760	1000	ug/Kg
65794-96-9	3+4-Methylphenols	470	U	470	1600	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	240	U	240	470	470	ug/Kg
67-72-1	Hexachloroethane	490	U	490	760	1000	ug/Kg
98-95-3	Nitrobenzene	530	U	530	760	1000	ug/Kg
78-59-1	Isophorone	500	U	500	760	1000	ug/Kg
88-75-5	2-Nitrophenol	550	U	550	760	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	550	U	550	760	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	500	U	500	760	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	440	U	440	760	1000	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	500	U	500	760	1000	ug/Kg
65-85-0	Benzoic acid	2000	D	1400	1600	1900	ug/Kg
91-20-3	Naphthalene	480	U	480	760	1000	ug/Kg
106-47-8	4-Chloroaniline	480	U	480	760	1000	ug/Kg
87-68-3	Hexachlorobutadiene	490	U	490	760	1000	ug/Kg

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Report of Analysis

Client:				Date Collected:	8/15/2024 12:00:00 AM
Project:				Date Received:	8/15/2024 12:00:00 AM
Client Sample ID:	S-908-K1-0-0.5-081524DL			SDG No.:	BF082624
Lab Sample ID:	P3641-03DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	14.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139162.D	5	8/16/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	510	U	510	1600	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	450	U	450	760	1000	ug/Kg
91-57-6	2-Methylnaphthalene	480	U	480	760	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	910	U	910	1600	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	420	U	420	760	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	430	U	430	760	1000	ug/Kg
92-52-4	1,1-Biphenyl	510	U	510	760	1000	ug/Kg
91-58-7	2-Chloronaphthalene	490	U	490	760	1000	ug/Kg
88-74-4	2-Nitroaniline	560	U	560	760	1000	ug/Kg
131-11-3	Dimethylphthalate	480	U	480	760	1000	ug/Kg
208-96-8	Acenaphthylene	510	U	510	760	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	490	U	490	760	1000	ug/Kg
99-09-2	3-Nitroaniline	520	U	520	760	1000	ug/Kg
83-32-9	Acenaphthene	470	U	470	760	1000	ug/Kg
Total PAH	Total PAH	23800	UD	7750	760	16000	ug/Kg
51-28-5	2,4-Dinitrophenol	1400	U	1400	1600	1900	ug/Kg
100-02-7	4-Nitrophenol	680	U	680	1600	1900	ug/Kg
132-64-9	Dibenzofuran	490	U	490	760	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	500	U	500	760	1000	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	990	U	990	760	2000	ug/Kg
84-66-2	Diethylphthalate	470	U	470	760	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	500	U	500	760	1000	ug/Kg
86-73-7	Fluorene	500	U	500	760	1000	ug/Kg
100-01-6	4-Nitroaniline	630	U	630	760	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	680	U	680	1600	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	480	U	480	760	1000	ug/Kg
103-33-3	Azobenzene	470	U	470	760	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	460	U	460	760	1000	ug/Kg
118-74-1	Hexachlorobenzene	500	U	500	760	1000	ug/Kg
1912-24-9	Atrazine	540	U	540	760	1000	ug/Kg

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Report of Analysis

Client:				Date Collected:	8/15/2024 12:00:00 AM
Project:				Date Received:	8/15/2024 12:00:00 AM
Client Sample ID:	S-908-K1-0-0.5-081524DL			SDG No.:	BF082624
Lab Sample ID:	P3641-03DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	14.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139162.D	5	8/16/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	450	U	450	1600	1900	ug/Kg
85-01-8	Phenanthrene	2700	D	490	760	1000	ug/Kg
120-12-7	Anthracene	490	U	490	760	1000	ug/Kg
86-74-8	Carbazole	470	U	470	760	1000	ug/Kg
84-74-2	Di-n-butylphthalate	490	U	490	760	1000	ug/Kg
206-44-0	Fluoranthene	4300	D	480	760	1000	ug/Kg
92-87-5	Benzidine	950	U	950	1600	1900	ug/Kg
129-00-0	Pyrene	3500	D	490	760	1000	ug/Kg
85-68-7	Butylbenzylphthalate	570	U	570	760	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	580	U	580	1600	1900	ug/Kg
56-55-3	Benzo(a)anthracene	1900	D	470	760	1000	ug/Kg
218-01-9	Chrysene	2200	D	470	760	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	530	U	530	760	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	640	U	640	1600	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	3200	D	470	760	1000	ug/Kg
207-08-9	Benzo(k)fluoranthene	1100	D	480	760	1000	ug/Kg
50-32-8	Benzo(a)pyrene	2200	D	540	760	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100	D	460	760	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	480	U	480	760	1000	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600	D	470	760	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	510	U	510	760	1000	ug/Kg
123-91-1	1,4-Dioxane	640	U	640	760	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	440	U	440	760	1000	ug/Kg
90-12-0	1-Methylnaphthalene	490	U	490	1000	1000	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	80.79		18-112		54	SPK: -150
13127-88-3	Phenol-d6	80.76		15-107		54	SPK: -150
4165-60-0	Nitrobenzene-d5	68.36		18-107		68	SPK: -100
321-60-8	2-Fluorobiphenyl	62.805		20-109		63	SPK: -100

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Report of Analysis

Client:				Date Collected:	8/15/2024 12:00:00 AM
Project:				Date Received:	8/15/2024 12:00:00 AM
Client Sample ID:	S-908-K1-0-0.5-081524DL			SDG No.:	BF082624
Lab Sample ID:	P3641-03DL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	14.7
Sample Wt/Vol:	30.04	Units:	g	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
BF139162.D	5	8/16/2024 12:00:00 AM	8/26/2024 12:00:00 AM	PB162782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	72.94		10-116		49	SPK: -150
1718-51-0	Terphenyl-d14	52.685		10-105		53	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	86976	6.898				
1146-65-2	Naphthalene-d8	322158	8.181				
15067-26-2	Acenaphthene-d10	175843	9.933				
1517-22-2	Phenanthrene-d10	273548	11.422				
1719-03-5	Chrysene-d12	164330	14.057				
1520-96-3	Perylene-d12	152045	15.539				

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BF082624

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**S-908-K1-0-0.5-081524DL**							
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Benzo(a)anthracene	1,900.000	D	470	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Benzo(a)pyrene	2,200.000	D	540	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Benzo(b)fluoranthene	3,200.000	D	470	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Benzo(g,h,i)perylene	1,600.000	D	470	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Benzo(k)fluoranthene	1,100.000	D	480	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Benzoic acid	2,000.000	D	1400	1900	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Chrysene	2,200.000	D	470	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Fluoranthene	4,300.000	D	480	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Indeno(1,2,3-cd)pyrene	1,100.000	D	460	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Phenanthrene	2,700.000	D	490	1000	ug/Kg
P3641-03DL	S-908-K1-0-0.5-081524D	Solid	Pyrene	3,500.000	D	490	1000	ug/Kg
			Total Svoc :	**25,800.00**				
			Total Concentration:	**25,800.00**				
Client ID :	**S-904-J-SO-0-0.5-081924DL**							
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Acenaphthene	790.000	JD	570	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Anthracene	2,200.000	D	590	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Benzo(a)anthracene	3,700.000	D	570	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Benzo(a)pyrene	3,300.000	D	650	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Benzo(b)fluoranthene	3,800.000	D	570	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Benzo(g,h,i)perylene	2,100.000	D	560	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Benzo(k)fluoranthene	1,400.000	D	580	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Carbazole	910.000	JD	560	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Chrysene	3,700.000	D	560	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Fluoranthene	7,700.000	D	570	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Fluorene	930.000	JD	600	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Indeno(1,2,3-cd)pyrene	1,500.000	D	550	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Phenanthrene	8,200.000	D	590	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Pyrene	7,300.000	D	580	1200	ug/Kg
P3671-01DL	S-904-J-SO-0-0.5-081924	Solid	Total PAH	46,620.000	D	9300	19200	ug/Kg
			Total Svoc :	**94,150.00**				
			Total Concentration:	**94,150.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: Calibration Date(s): 8/20/2024

Calibration Time(s): 17:10

LAB FILE ID: RRF2.5 = BF139078.D RRF005 = BF139079.D RRF010 = BF139080.D
RRF020 = BF139081.D RRF040 = BF139082.D RRF050 = BF139083.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		1.227	0.804	0.822	0.794	0.769	0.856	19.2
Pyridine		1.553	1.469	1.544	1.361	1.323	1.417	7.5
2-Fluorophenol		1.671	1.315	1.335	1.225	1.182	1.300	13.5
Benzaldehyde			1.182	1.163	0.921	0.843	0.985	17.8
Aniline		1.903	1.548	1.626	1.511	1.469	1.516	15.1
Phenol-d6		2.058	1.698	1.737	1.612	1.545	1.680	11.0
Phenol		2.131	1.793	1.839	1.709	1.607	1.748	11.5
bis(2-Chloroethyl)ether		1.913	1.323	1.374	1.261	1.209	1.406	16.9
2-Chlorophenol		1.529	1.254	1.309	1.194	1.161	1.250	11.0
1,2-Dichlorobenzene		1.512	1.459	1.483	1.341	1.277	1.374	8.0
1,3-Dichlorobenzene		1.853	1.533	1.576	1.434	1.373	1.503	11.7
1,4-Dichlorobenzene		1.803	1.560	1.572	1.440	1.381	1.503	10.5
Benzyl Alcohol		1.608	1.313	1.366	1.280	1.225	1.328	10.0
2-Methylphenol		1.249	1.086	1.114	1.029	0.999	1.070	8.5
2,2-oxybis(1-Chloropropane)		2.693	1.975	2.043	1.850	1.768	1.980	16.9
Acetophenone		0.542	0.529	0.538	0.504	0.488	0.511	4.9
3+4-Methylphenols		1.706	1.418	1.446	1.348	1.258	1.386	11.7
n-Nitroso-di-n-propylamine	1.348	1.435	1.039	1.089	1.005	0.955	1.103	16.7
Nitrobenzene-d5		0.274	0.288	0.336	0.360	0.365	0.343	13.6
Hexachloroethane		0.677	0.502	0.532	0.507	0.485	0.527	12.9
Nitrobenzene		0.328	0.335	0.382	0.395	0.395	0.382	9.7
Isophorone		0.768	0.748	0.752	0.717	0.693	0.730	3.7
2-Nitrophenol		0.064	0.075	0.100	0.118	0.126	0.110	28.5
2,4-Dimethylphenol		0.275	0.227	0.234	0.223	0.219	0.231	8.7
bis(2-Chloroethoxy)methane		0.489	0.438	0.440	0.410	0.393	0.426	7.8
2,4-Dichlorophenol		0.293	0.290	0.299	0.287	0.278	0.288	2.6
1,2,4-Trichlorobenzene		0.370	0.350	0.352	0.331	0.314	0.337	6.2
Benzoic acid			0.100	0.133	0.167	0.183	0.167	26.4
Naphthalene		1.090	1.062	1.071	0.997	0.945	1.014	6.1
4-Chloroaniline		0.357	0.355	0.363	0.347	0.330	0.347	3.5
Hexachlorobutadiene		0.234	0.233	0.231	0.216	0.206	0.220	5.5
Caprolactam		0.090	0.091	0.092	0.092	0.089	0.091	1.8
4-Chloro-3-methylphenol		0.333	0.314	0.329	0.319	0.304	0.319	3.1
2-Methylnaphthalene		0.758	0.678	0.678	0.629	0.598	0.650	9.1
Hexachlorocyclopentadiene		0.202	0.192	0.218	0.214	0.211	0.210	4.9
2,4,6-Trichlorophenol		0.408	0.364	0.378	0.356	0.360	0.370	5.2

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.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: Calibration Date(s): 8/20/2024

Calibration Time(s): 17:10

LAB FILE ID: RRF2.5 = BF139078.D RRF005 = BF139079.D RRF010 = BF139080.D
RRF020 = BF139081.D RRF040 = BF139082.D RRF050 = BF139083.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.526	1.341	1.326	1.207	1.147	1.261	11.6
2,4,5-Trichlorophenol		0.401	0.359	0.384	0.386	0.363	0.379	3.7
1,1-Biphenyl		1.333	1.479	1.479	1.374	1.301	1.370	5.8
2-Chloronaphthalene		1.208	1.165	1.171	1.087	1.047	1.113	6.0
2-Nitroaniline		0.160	0.170	0.235	0.285	0.304	0.262	28.8
Dimethylphthalate		1.239	1.281	1.295	1.236	1.181	1.235	3.5
Acenaphthylene		1.656	1.666	1.690	1.587	1.523	1.595	4.8
2,6-Dinitrotoluene		0.093	0.147	0.202	0.236	0.243	0.206	30.8
3-Nitroaniline		0.123	0.151	0.211	0.241	0.243	0.213	25.9
Acenaphthene		1.181	1.076	1.072	1.027	0.985	1.053	6.2
2,4-Dinitrophenol			0.036	0.049	0.072	0.080	0.074	37.0
4-Nitrophenol			0.131	0.169	0.195	0.199	0.187	17.1
Dibenzofuran		1.611	1.620	1.623	1.518	1.441	1.530	5.8
2,4-Dinitrotoluene		0.109	0.165	0.229	0.289	0.297	0.250	34.3
Diethylphthalate		1.275	1.237	1.267	1.222	1.175	1.223	3.3
4-Chlorophenyl-phenylether		0.703	0.642	0.636	0.589	0.573	0.611	8.5
Fluorene		1.395	1.280	1.273	1.195	1.142	1.223	8.1
4-Nitroaniline		0.139	0.164	0.213	0.244	0.248	0.219	22.7
4,6-Dinitro-2-methylphenol			0.031	0.046	0.064	0.071	0.064	33.8
n-Nitrosodiphenylamine		0.707	0.606	0.613	0.571	0.544	0.592	9.8
Azobenzene		1.521	1.378	1.395	1.334	1.296	1.360	6.1
2,4,6-Tribromophenol		0.132	0.174	0.191	0.190	0.187	0.181	12.6
4-Bromophenyl-phenylether		0.228	0.217	0.226	0.207	0.199	0.212	5.5
Hexachlorobenzene		0.255	0.229	0.231	0.220	0.215	0.227	5.9
Atrazine		0.241	0.198	0.197	0.147	0.164	0.181	18.4
Pentachlorophenol		0.135	0.131	0.147	0.149	0.148	0.145	6.2
Phenanthrene		1.228	1.053	1.066	0.968	0.938	1.017	10.8
Anthracene		1.172	1.037	1.035	0.953	0.924	0.994	9.5
Carbazole		1.112	0.959	0.976	0.892	0.865	0.928	10.5
Di-n-butylphthalate		1.373	1.077	1.098	1.019	0.987	1.076	12.9
Fluoranthene		1.275	1.159	1.152	1.050	1.001	1.085	10.6
Benzidine		0.410	0.361	0.368	0.505	0.439	0.413	12.0
Pyrene		1.566	1.495	1.606	1.688	1.704	1.669	7.3
Terphenyl-d14		1.099	1.121	1.144	1.212	1.243	1.205	7.2
Butylbenzylphthalate		0.492	0.497	0.564	0.610	0.604	0.577	10.7
3,3-Dichlorobenzidine		0.429	0.419	0.407	0.349	0.329	0.367	13.4

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.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: Calibration Date(s): 8/20/2024

Calibration Time(s): 17:10

LAB FILE ID: RRF2.5 = BF139078.D RRF005 = BF139079.D RRF010 = BF139080.D
RRF020 = BF139081.D RRF040 = BF139082.D RRF050 = BF139083.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.478	1.343	1.346	1.301	1.232	1.315	6.6
Chrysene		1.229	1.245	1.288	1.153	1.111	1.192	5.3
Bis(2-ethylhexyl)phthalate		0.749	0.719	0.757	0.779	0.764	0.765	3.6
Di-n-octyl phthalate		1.238	1.050	1.094	1.030	0.998	1.074	7.2
Benzo(b)fluoranthene		1.474	1.391	1.390	1.257	1.153	1.304	9.3
Benzo(k)fluoranthene		1.051	1.220	1.288	1.076	1.019	1.086	11.4
Benzo(a)pyrene		1.052	1.068	1.087	1.014	0.981	1.030	3.9
Indeno(1,2,3-cd)pyrene		0.909	0.873	1.124	1.298	1.308	1.171	17.6
Dibenzo(a,h)anthracene		0.745	0.724	0.922	1.078	1.071	0.961	17.3
Benzo(g,h,i)perylene		0.641	0.713	0.968	1.106	1.102	0.969	21.5
1,2,4,5-Tetrachlorobenzene		0.904	0.595	0.595	0.560	0.531	0.609	21.8
1,4-Dioxane		0.591	0.579	0.579	0.553	0.528	0.558	4.7
2,3,4,6-Tetrachlorophenol		0.259	0.297	0.325	0.313	0.306	0.305	7.3
1-Methylnaphthalene		0.677	0.662	0.666	0.613	0.585	0.627	6.4

All other compounds must meet a minimum RRF of 0.010.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG NO.: BF082624

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 26 2024 12:00AM

Lab File ID: BF139082.D Time Analyzed: 10:13

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	116386	6.899	419218	8.18	240364	9.93
	UPPER LIMIT	232772	7.399	838436	8.681	480728	10.434
	LOWER LIMIT	58193	6.399	209609	7.681	120182	9.434
	EPA SAMPLE NO.						
01	PB162917BL	96502	6.90	378225	8.18	226105	9.93
02	S-904-J-SO-0-0.5-081924DL	92486	6.90	347656	8.18	198607	9.93
03	S-908-K1-0-0.5-081524DL	86976	6.90	322158	8.18	175843	9.93

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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG NO.: BF082624

EPA Sample No.: SSTDCCC040 Date Analyzed: Aug 26 2024 12:00AM

Lab File ID: BF139159.D Time Analyzed: 10:13

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	95428	6.898	349140	8.18	213475	9.94
	UPPER LIMIT	190856	7.398	698280	8.681	426950	10.439
	LOWER LIMIT	47714	6.398	174570	7.681	106737.5	9.439
	EPA SAMPLE NO.						
01	PB162917BL	96502	6.90	378225	8.18	226105	9.93
02	S-904-J-SO-0-0.5-081924DL	92486	6.90	347656	8.18	198607	9.93
03	S-908-K1-0-0.5-081524DL	86976	6.90	322158	8.18	175843	9.93

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG NO.: BF082624

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 26 2024 12:00AM

Lab File ID: BF139082.D Time Analyzed: 10:13

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	434981	11.422	276906	14.057	215524	15.533
	UPPER LIMIT	869962	11.922	553812	14.557	431048	16.033
	LOWER LIMIT	217490.5	10.922	138453	13.557	107762	15.033
	EPA SAMPLE NO.						
01	PB162917BL	434729	11.42	297750	14.06	204481	15.54
02	S-904-J-SO-0-0.5-081924DL	323380	11.42	172392	14.06	177359	15.54
03	S-908-K1-0-0.5-081524DL	273548	11.42	164330	14.06	152045	15.54

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG NO.: BF082624

EPA Sample No.: SSTDCCC040 Date Analyzed: Aug 26 2024 12:00AM

Lab File ID: BF139159.D Time Analyzed: 10:13

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	377412	11.422	203247	14.063	185607	15.539
	UPPER LIMIT	754824	11.922	406494	14.563	371214	16.039
	LOWER LIMIT	188706	10.922	101623.5	13.563	92803.5	15.039
	EPA SAMPLE NO.						
01	PB162917BL	434729	11.42	297750	14.06	204481	15.54
02	S-904-J-SO-0-0.5-081924DL	323380	11.42	172392	14.06	177359	15.54
03	S-908-K1-0-0.5-081524DL	273548	11.42	164330	14.06	152045	15.54

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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Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162917BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082624 SAS No.: BF082624 SDG NO.: BF082624

Lab File ID: BF139160.D Lab Sample ID: PB162917BL

Instrument ID: BNA_F Date Extracted: 08/22/2024

Matrix: (soil/water) water Date Analyzed: 08/26/2024

Level: (low/med) LOW Time Analyzed: 10:13

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

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

COMMENTS:

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

Surrogate Summary

SW-846

SDG No.: BF082624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P3641-03DL	S-908-K1-0-0.5-081	BF139162.D	2-Fluorophenol	150	80.79	54		18	112
			Phenol-d6	150	80.76	54		15	107
			Nitrobenzene-d5	100	68.36	68		18	107
			2-Fluorobiphenyl	100	62.81	63		20	109
			2,4,6-Tribromophenol	150	72.94	49		10	116
			Terphenyl-d14	100	52.69	53		10	105

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Surrogate Summary

SW-846

SDG No.: BF082624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P3671-01DL	S-904-J-SO-0-0.5-0	BF139161.D	2-Fluorophenol	150	73.28	49		18	112
			Phenol-d6	150	77.68	52		15	107
			Nitrobenzene-d5	100	64.41	64		18	107
			2-Fluorobiphenyl	100	45.08	45		20	109
			2,4,6-Tribromophenol	150	68.67	46		10	116
			Terphenyl-d14	100	40.65	41		10	105

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

Surrogate Summary

SW-846

SDG No.: BF082624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB162917BL	PB162917BL	BF139160.D	2-Fluorophenol	150	144.73	96		10	139
			Phenol-d6	150	144.43	96		10	134
			Nitrobenzene-d5	100	123.59	124		49	133
			2-Fluorobiphenyl	100	97.36	97		52	132
			2,4,6-Tribromophenol	150	179.88	120		44	137
			Terphenyl-d14	100	106.66	107		48	125

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF082624

Lab Code: CHEM SAS No.: BF082624 SDG NO.: BF082624

Lab File ID: BF139158.D DFTPP Injection Date: 08/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.9
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	42.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.3
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	28.5
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	86.6
443	15.0 - 24.0% of mass 442	16.6 (19.2) 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
SSTDCCC040	SSTDCCC040	BF139159.D	08/26/2024	09:43
PB162917BL	PB162917BL	BF139160.D	08/26/2024	10:13
S-904-J-SO-0-0.5-081924DL	P3671-01DL	BF139161.D	08/26/2024	10:51
S-908-K1-0-0.5-081524DL	P3641-03DL	BF139162.D	08/26/2024	11:21