

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM012125 SAS No.: BM012125 SDG No.: BM012125

Instrument ID: BNA_M Calibration Date/Time: 1/21/2025 1:10:36

Lab File ID: BM049359.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4137 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.524	0.572	0.010	9.2086	40.0
1,4-Dioxane-d8	0.466	0.474	0.010	1.9251	40.0
Naphthalene	0.982	0.996	0.600	1.4744	30.0
1-Methylnaphthalene	0.619	0.632	0.300	2.0111	30.0
2-Methylnaphthalene	0.583	0.586	0.300	0.5577	30.0
Acenaphthylene	1.485	1.550	0.900	4.3872	30.0
Acenaphthene	1.175	1.173	0.500	-0.1559	30.0
Fluorene	1.220	1.227	0.700	0.6469	30.0
Pentachlorophenol	0.077	0.068	0.010	-11.8834	50.0
Phenanthrene	0.927	0.933	0.300	0.7068	30.0
Anthracene	0.821	0.781	0.400	-4.9109	30.0
Fluoranthene	1.724	1.846	0.400	7.0911	30.0
Pyrene	1.778	1.879	0.500	5.7127	30.0
Benzo (a) anthracene	1.148	1.038	0.400	-9.5776	30.0
Chrysene	1.574	1.620	0.400	2.9584	30.0
Benzo (b) fluoranthene	1.313	1.291	0.200	-1.6728	30.0
Benzo (k) fluoranthene	1.531	1.539	0.200	0.4624	30.0
Benzo (a) pyrene	1.186	1.060	0.200	-10.6324	30.0
Indeno (1,2,3-cd) pyrene	1.612	1.381	0.200	-14.3143	30.0
Dibenzo (a,h) anthracene	1.164	0.899	0.200	-22.7463	30.0
Benzo (g,h,i) perylene	1.429	1.387	0.200	-2.9907	30.0
Fluoranthene-d10	1.365	1.499	0.400	9.802	30.0
2-Methylnaphthalene-d10	0.509	0.536	0.300	5.3349	30.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM012125 SAS No.: BM012125 SDG No.: BM012125

Instrument ID: BNA_M Calibration Date/Time: 1/21/2025 1:15:00

Lab File ID: BM049365.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4138 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.524	0.541	0.010	3.2624	50.0
1,4-Dioxane-d8	0.466	0.455	0.010	-2.1694	50.0
Naphthalene	0.982	0.977	0.600	-0.4742	50.0
1-Methylnaphthalene	0.619	0.660	0.300	6.5695	50.0
2-Methylnaphthalene	0.583	0.624	0.300	7.0197	50.0
Acenaphthylene	1.485	1.569	0.900	5.6065	50.0
Acenaphthene	1.175	1.164	0.500	-0.9444	50.0
Fluorene	1.220	1.345	0.700	10.294	50.0
Pentachlorophenol	0.077	0.076	0.010	-1.392	50.0
Phenanthrene	0.927	0.959	0.300	3.4485	50.0
Anthracene	0.821	0.831	0.400	1.2687	50.0
Fluoranthene	1.724	1.633	0.400	-5.2838	50.0
Pyrene	1.778	1.670	0.500	-6.0921	50.0
Benzo (a) anthracene	1.148	1.199	0.400	4.4562	50.0
Chrysene	1.574	1.519	0.400	-3.5084	50.0
Benzo (b) fluoranthene	1.313	1.335	0.200	1.6866	50.0
Benzo (k) fluoranthene	1.531	1.588	0.200	3.7116	50.0
Benzo (a) pyrene	1.186	1.087	0.200	-8.317	50.0
Indeno (1,2,3-cd) pyrene	1.612	1.576	0.200	-2.243	50.0
Dibenzo (a,h) anthracene	1.164	1.187	0.200	1.9863	50.0
Benzo (g,h,i) perylene	1.429	1.326	0.200	-7.2592	50.0
Fluoranthene-d10	1.365	1.318	0.400	-3.4392	50.0
2-Methylnaphthalene-d10	0.509	0.569	0.300	11.8433	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	1/20/2025 12:00:00 AM
Project:		Date Received:	1/20/2025 12:00:00 AM
Client Sample ID:	SBLK143	SDG No.:	BM012125
Lab Sample ID:	PB166143BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049360.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.938		15-120		74	SPK: -8
93951-69-0	Fluoranthene-d10	0.294		30-130		74	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.308		30-130		77	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4965	7.527				
1146-65-2	Naphthalene-d8	13540	10.282				
15067-26-2	Acenaphthene-d10	6858	14.164				

Report of Analysis

Client:		Date Collected:	1/20/2025 12:00:00 AM
Project:		Date Received:	1/20/2025 12:00:00 AM
Client Sample ID:	SBLK143	SDG No.:	BM012125
Lab Sample ID:	PB166143BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049360.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14938	16.913				
1719-03-5	Chrysene-d12	10149	21.131				
1520-96-3	Perylene-d12	9630	23.267				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/16/2025 12:00:00 AM
Project:		Date Received:	1/16/2025 12:00:00 AM
Client Sample ID:	C0AF2	SDG No.:	BM012125
Lab Sample ID:	Q1126-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
		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
BM049361.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0	U	0	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.01	U	0.01	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.06	U	0.06	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
129-00-0	Pyrene	0.01	U	0.01	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0	U	0	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.01	U	0.01	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.02	U	0.02	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.01	U	0.01	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.02	U	0.02	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.113		15-120		64	SPK: -8
93951-69-0	Fluoranthene-d10	0.344		30-130		86	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.354		30-130		88	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5386	7.527				
1146-65-2	Naphthalene-d8	15635	10.282				
15067-26-2	Acenaphthene-d10	8362	14.164				

Report of Analysis

Client:		Date Collected:	1/16/2025 12:00:00 AM
Project:		Date Received:	1/16/2025 12:00:00 AM
Client Sample ID:	C0AF2	SDG No.:	BM012125
Lab Sample ID:	Q1126-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049361.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	18993	16.913				
1719-03-5	Chrysene-d12	13545	21.122				
1520-96-3	Perylene-d12	10528	23.264				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/16/2025 12:00:00 AM
Project:		Date Received:	1/16/2025 12:00:00 AM
Client Sample ID:	C0AF3	SDG No.:	BM012125
Lab Sample ID:	Q1126-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049362.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.1		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.996		15-120		62	SPK: -8
93951-69-0	Fluoranthene-d10	0.343		30-130		86	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.347		30-130		87	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6018	7.527				
1146-65-2	Naphthalene-d8	17601	10.282				
15067-26-2	Acenaphthene-d10	9144	14.164				

Report of Analysis

Client:		Date Collected:	1/16/2025 12:00:00 AM
Project:		Date Received:	1/16/2025 12:00:00 AM
Client Sample ID:	C0AF3	SDG No.:	BM012125
Lab Sample ID:	Q1126-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049362.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19904	16.913				
1719-03-5	Chrysene-d12	13779	21.12				
1520-96-3	Perylene-d12	11550	23.265				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/16/2025 12:00:00 AM
Project:		Date Received:	1/16/2025 12:00:00 AM
Client Sample ID:	C0AF4	SDG No.:	BM012125
Lab Sample ID:	Q1126-03	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049363.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.87		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.276		15-120		66	SPK: -8
93951-69-0	Fluoranthene-d10	0.37		30-130		93	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.395		30-130		99	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4857	7.527				
1146-65-2	Naphthalene-d8	14073	10.282				
15067-26-2	Acenaphthene-d10	7753	14.164				

Report of Analysis

Client:		Date Collected:	1/16/2025 12:00:00 AM
Project:		Date Received:	1/16/2025 12:00:00 AM
Client Sample ID:	C0AF4	SDG No.:	BM012125
Lab Sample ID:	Q1126-03	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049363.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	16673	16.913				
1719-03-5	Chrysene-d12	13111	21.119				
1520-96-3	Perylene-d12	11097	23.267				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/20/2025 12:00:00 AM
Project:		Date Received:	1/20/2025 12:00:00 AM
Client Sample ID:	SLCS143	SDG No.:	BM012125
Lab Sample ID:	PB166143BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049364.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.9		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.43		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.43		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.43		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.41		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.41		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.44		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.88		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.45		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.44		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.38		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.39		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.43		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.4		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.42		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.43		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.44		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.41		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.43		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.42		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.754		15-120		94	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.402		30-130		100	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.462		30-130		115	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5375	7.531				
1146-65-2	Naphthalene-d8	15964	10.292				
15067-26-2	Acenaphthene-d10	9279	14.168				

Report of Analysis

Client:		Date Collected:	1/20/2025 12:00:00 AM
Project:		Date Received:	1/20/2025 12:00:00 AM
Client Sample ID:	SLCS143	SDG No.:	BM012125
Lab Sample ID:	PB166143BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% 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
BM049364.D	1	1/20/2025 12:00:00 AM	1/21/2025 12:00:00 AM	PB166143

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	17881	16.921				
1719-03-5	Chrysene-d12	14424	21.123				
1520-96-3	Perylene-d12	14011	23.271				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L



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

Hit Summary Sheet SW-846

SDG No.: BM012125

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : C0AF2								
Q1126-01	C0AF2	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID : C0AF3								
Q1126-02	C0AF3	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
Q1126-02	C0AF3	Water	1,4-Dioxane		2.100	0.029	0.2	ug/L
			Total Svoc :			2.10		
			Total Concentration:			2.10		
Client ID : C0AF4								
Q1126-03	C0AF4	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
Q1126-03	C0AF4	Water	1,4-Dioxane		0.870	0.029	0.2	ug/L
			Total Svoc :			0.87		
			Total Concentration:			0.87		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM011725 SAS No.: BM011725 SDG No.: BM011725
Instrument ID: _____ Calibration Date(s): 1/17/2025 : _____
Calibration Time(s): 12:03 : _____

LAB FILE ID:		RRFAL1 = BM049351.D			RRFAL2 = BM049352.D		RRFAL3 = BM049353.D	
		RRFAL4 = BM049354.D			RRFAL5 = BM049355.D		RRFAL6 = BM049356.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.614	0.556	0.522	0.467	0.462	0.524	12.2
1,4-Dioxane-d8		0.501	0.517	0.458	0.430	0.421	0.466	9.1
Naphthalene	1.017	0.995	0.998	0.960	0.938		0.982	3.2
1-Methylnaphthalene	0.632	0.618	0.635	0.608	0.604		0.619	2.2
2-Methylnaphthalene	0.585	0.564	0.584	0.587	0.592		0.583	1.9
Acenaphthylene	1.469	1.467	1.551	1.472	1.467		1.485	2.5
Acenaphthene	1.208	1.197	1.149	1.171	1.150		1.175	2.3
Fluorene	1.177	1.159	1.232	1.266	1.264		1.220	4.1
Pentachlorophenol		0.050	0.079	0.077	0.083	0.098	0.077	22.9
Phenanthrene	0.895	0.882	0.914	0.992	0.951		0.927	4.8
Anthracene	0.759	0.792	0.812	0.877	0.865		0.821	6.0
Fluoranthene	1.841	1.771	1.716	1.639	1.654		1.724	4.9
Pyrene	1.913	1.839	1.767	1.691	1.679		1.778	5.6
Benzo(a)anthracene	1.113	1.074	1.119	1.194	1.241		1.148	5.9
Chrysene	1.748	1.678	1.569	1.482	1.392		1.574	9.1
Benzo(b)fluoranthene	1.319	1.292	1.258	1.355	1.339		1.313	2.9
Benzo(k)fluoranthene	1.654	1.549	1.494	1.513	1.447		1.531	5.1
Benzo(a)pyrene	1.218	1.231	1.077	1.208	1.194		1.186	5.3
Indeno(1,2,3-cd)pyrene	1.563	1.627	1.566	1.643	1.660		1.612	2.8
Dibenzo(a,h)anthracene	1.085	1.134	1.138	1.220	1.241		1.164	5.6
Benzo(g,h,i)perylene	1.493	1.471	1.391	1.396	1.396		1.429	3.4
Fluoranthene-d10	1.457	1.400	1.405	1.281	1.284		1.365	5.8
2-Methylnaphthalene-d10	0.500	0.485	0.548	0.503	0.508		0.509	4.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM012125 SAS No.: BM012125 SDG NO.: BM012125

EPA Sample No.: SSTD0.4022 Date Analyzed: Jan 21 2025 12:00AM

Lab File ID: BM049353.D Time Analyzed: 11:12

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	5918	7.531	16894	10.29	9109	14.17
UPPER LIMIT	11836	8.031	33788	10.792	18218	14.668
LOWER LIMIT	2959	7.031	8447	9.792	4554.5	13.668
EPA SAMPLE NO.						
01 SBLK143	4965	7.53	13540	10.28	6858	14.16
02 C0AF2	5386	7.53	15635	10.28	8362	14.16
03 C0AF3	6018	7.53	17601	10.28	9144	14.16
04 C0AF4	4857	7.53	14073	10.28	7753	14.16
05 SLCS143	5375	7.53	15964	10.29	9279	14.17

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM012125 SAS No.: BM012125 SDG NO.: BM012125

EPA Sample No.: SSTD0.4137 Date Analyzed: Jan 21 2025 12:00AM

Lab File ID: BM049359.D Time Analyzed: 11:12

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	5252	7.531	15031	10.29	8163	14.17
UPPER LIMIT	10504	8.031	30062	10.793	16326	14.669
LOWER LIMIT	2626	7.031	7515.5	9.793	4081.5	13.669
EPA SAMPLE NO.						
01 SBLK143	4965	7.53	13540	10.28	6858	14.16
02 C0AF2	5386	7.53	15635	10.28	8362	14.16
03 C0AF3	6018	7.53	17601	10.28	9144	14.16
04 C0AF4	4857	7.53	14073	10.28	7753	14.16
05 SLCS143	5375	7.53	15964	10.29	9279	14.17

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM012125 SAS No.: BM012125 SDG NO.: BM012125

EPA Sample No.: SSTD0.4022 Date Analyzed: Jan 21 2025 12:00AM

Lab File ID: BM049353.D Time Analyzed: 11:12

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	16503	16.925	10711	21.126	11306	23.277
UPPER LIMIT	33006	17.425	21422	21.626	22612	23.777
LOWER LIMIT	8251.5	16.425	5355.5	20.626	5653	22.777
EPA SAMPLE NO.						
01 SBLK143	14938	16.91	10149	21.13	9630	23.27
02 C0AF2	18993	16.91	13545	21.12	10528	23.26
03 C0AF3	19904	16.91	13779	21.12	11550	23.27
04 C0AF4	16673	16.91	13111	21.12	11097	23.27
05 SLCS143	17881	16.92	14424	21.12	14011	23.27

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM012125 SAS No.: BM012125 SDG NO.: BM012125

EPA Sample No.: SSTD0.4137 Date Analyzed: Jan 21 2025 12:00AM

Lab File ID: BM049359.D Time Analyzed: 11:12

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	14658	16.926	8923	21.125	9271	23.273
UPPER LIMIT	29316	17.426	17846	21.625	18542	23.773
LOWER LIMIT	7329	16.426	4461.5	20.625	4635.5	22.773
EPA SAMPLE NO.						
01 SBLK143	14938	16.91	10149	21.13	9630	23.27
02 C0AF2	18993	16.91	13545	21.12	10528	23.26
03 C0AF3	19904	16.91	13779	21.12	11550	23.27
04 C0AF4	16673	16.91	13111	21.12	11097	23.27
05 SLCS143	17881	16.92	14424	21.12	14011	23.27

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.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM012125

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB166143BS	1,4-Dioxane	2	1.9	ug/L	95				0	0		
	Naphthalene	0.4	0.43	ug/L	108				0	0		
	1-Methylnaphthalene	0.4	0.43	ug/L	108				0	0		
	2-Methylnaphthalene	0.4	0.43	ug/L	108				0	0		
	Acenaphthylene	0.4	0.41	ug/L	103				0	0		
	Acenaphthene	0.4	0.41	ug/L	103				0	0		
	Fluorene	0.4	0.44	ug/L	110				0	0		
	Pentachlorophenol	0.8	0.88	ug/L	110				0	0		
	Phenanthrene	0.4	0.45	ug/L	113				0	0		
	Anthracene	0.4	0.44	ug/L	110				0	0		
	Fluoranthene	0.4	0.38	ug/L	95				0	0		
	Pyrene	0.4	0.39	ug/L	98				0	0		
	Benzo(a)anthracene	0.4	0.43	ug/L	108				0	0		
	Chrysene	0.4	0.4	ug/L	100				0	0		
	Benzo(b)fluoranthene	0.4	0.42	ug/L	105				0	0		
	Benzo(k)fluoranthene	0.4	0.43	ug/L	108				0	0		
	Benzo(a)pyrene	0.4	0.44	ug/L	110				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0.41	ug/L	103				0	0		
	Dibenzo(a,h)anthracene	0.4	0.43	ug/L	108				0	0		
	Benzo(g,h,i)perylene	0.4	0.42	ug/L	105				0	0		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK143

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM012125

SAS No.: BM012125 SDG NO.: BM012125

Lab File ID: BM049360.D

Lab Sample ID: PB166143BL

Instrument ID: BNA_M

Date Extracted: 01/20/2025

Matrix: (soil/water) Water

Date Analyzed: 01/21/2025

Level: (low/med) LOW

Time Analyzed: 11:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
C0AF2	Q1126-01	BM049361.D	01/21/2025
C0AF3	Q1126-02	BM049362.D	01/21/2025
C0AF4	Q1126-03	BM049363.D	01/21/2025
PB166143BS	PB166143BS	BM049364.D	01/21/2025

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: **BM012125**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB166143BL	PB166143BL	BM049360.D	1,4-Dioxane-d8	8	5.94	74		15	120
			Fluoranthene-d10	0.4	0.29	74		30	130
			2-Methylnaphthalene-d10	0.4	0.31	77		30	130
PB166143BS	PB166143BS	BM049364.D	1,4-Dioxane-d8	0.8	0.75	94		15	120
			Fluoranthene-d10	0.4	0.40	100		30	130
			2-Methylnaphthalene-d10	0.4	0.46	115		30	130
Q1126-01	C0AF2	BM049361.D	1,4-Dioxane-d8	8	5.11	64		15	120
			Fluoranthene-d10	0.4	0.34	86		30	130
			2-Methylnaphthalene-d10	0.4	0.35	88		30	130
Q1126-02	C0AF3	BM049362.D	1,4-Dioxane-d8	8	5.00	62		15	120
			Fluoranthene-d10	0.4	0.34	86		30	130
			2-Methylnaphthalene-d10	0.4	0.35	87		30	130
Q1126-03	C0AF4	BM049363.D	1,4-Dioxane-d8	8	5.28	66		15	120
			Fluoranthene-d10	0.4	0.37	93		30	130
			2-Methylnaphthalene-d10	0.4	0.40	99		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM012125

Lab Code: CHEM

SAS No.: BM012125

SDG NO.: BM012125

Lab File ID: BM049358.D

DFTPP Injection Date: 01/21/2025

Instrument ID: BNA_M

DFTPP Injection Time: 09:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	38.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	41.6
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	22.7
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	9.1
442	Greater than 50% of mass 198	55.4
443	15.0 - 24.0% of mass 442	10.8 (19.6) 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
SSTD0.4137	SSTDCCC0.4	BM049359.D	01/21/2025	10:36
SBLK143	PB166143BL	BM049360.D	01/21/2025	11:12
C0AF2	Q1126-01	BM049361.D	01/21/2025	11:48
C0AF3	Q1126-02	BM049362.D	01/21/2025	12:23
C0AF4	Q1126-03	BM049363.D	01/21/2025	12:59
SLCS143	PB166143BS	BM049364.D	01/21/2025	13:35
SSTD0.4138	SSTDCCC0.4EC	BM049365.D	01/21/2025	15:00