



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM032024 SAS No.: BM032024 SDG No.: BM032024

Instrument ID: BNA_M Calibration Date/Time: 3/20/2024 1:09:58

Lab File ID: BM044675.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4056 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.536	0.555	0.010	3.6472	40.0
1,4-Dioxane-d8	0.524	0.527	0.010	0.4495	40.0
Naphthalene	1.125	1.075	0.600	-4.4924	30.0
1-Methylnaphthalene	0.719	0.644	0.300	-10.3995	30.0
2-Methylnaphthalene	0.712	0.644	0.300	-9.5849	30.0
Acenaphthylene	2.032	2.015	0.900	-0.856	30.0
Acenaphthene	1.468	1.432	0.500	-2.4177	30.0
Fluorene	1.677	1.543	0.700	-7.9794	30.0
Pentachlorophenol	0.096	0.084	0.010	-12.8016	50.0
Phenanthrene	1.201	1.135	0.300	-5.4539	30.0
Anthracene	1.128	1.105	0.400	-2.0284	30.0
Fluoranthene	1.959	1.590	0.400	-18.7981	30.0
Pyrene	2.007	1.647	0.500	-17.8972	30.0
Benzo(a)anthracene	1.523	1.405	0.400	-7.7245	30.0
Chrysene	1.710	1.610	0.400	-5.8365	30.0
Benzo(b)fluoranthene	1.527	1.355	0.200	-11.2671	30.0
Benzo(k)fluoranthene	1.654	1.519	0.200	-8.1113	30.0
Benzo(a)pyrene	1.386	1.306	0.200	-5.8236	30.0
Indeno(1,2,3-cd)pyrene	1.595	1.730	0.200	8.4914	30.0
Dibenzo(a,h)anthracene	1.230	1.354	0.200	10.0597	30.0
Benzo(g,h,i)perylene	1.400	1.480	0.200	5.7388	30.0
Fluoranthene-d10	1.404	1.153	0.400	-17.8864	30.0
2-Methylnaphthalene-d10	0.575	0.522	0.300	-9.2466	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.: BM032024 SAS No.: BM032024 SDG No.: BM032024

Instrument ID: BNA_M Calibration Date/Time: 3/20/2024 1:12:23

Lab File ID: BM044679.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4057 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.536	0.573	0.010	6.9335	50.0
1,4-Dioxane-d8	0.524	0.545	0.010	3.92	50.0
Naphthalene	1.125	1.079	0.600	-4.1425	50.0
1-Methylnaphthalene	0.719	0.637	0.300	-11.4054	50.0
2-Methylnaphthalene	0.712	0.641	0.300	-9.8954	50.0
Acenaphthylene	2.032	2.029	0.900	-0.1446	50.0
Acenaphthene	1.468	1.455	0.500	-0.8471	50.0
Fluorene	1.677	1.575	0.700	-6.1022	50.0
Pentachlorophenol	0.096	0.085	0.010	-12.291	50.0
Phenanthrene	1.201	1.129	0.300	-5.9499	50.0
Anthracene	1.128	1.098	0.400	-2.6391	50.0
Fluoranthene	1.959	1.639	0.400	-16.2907	50.0
Pyrene	2.007	1.690	0.500	-15.7576	50.0
Benzo(a)anthracene	1.523	1.401	0.400	-8.0299	50.0
Chrysene	1.710	1.617	0.400	-5.4529	50.0
Benzo(b)fluoranthene	1.527	1.374	0.200	-9.9684	50.0
Benzo(k)fluoranthene	1.654	1.534	0.200	-7.2162	50.0
Benzo(a)pyrene	1.386	1.323	0.200	-4.5567	50.0
Indeno(1,2,3-cd)pyrene	1.595	1.759	0.200	10.3309	50.0
Dibenzo(a,h)anthracene	1.230	1.386	0.200	12.6167	50.0
Benzo(g,h,i)perylene	1.400	1.513	0.200	8.0566	50.0
Fluoranthene-d10	1.404	1.183	0.400	-15.7189	50.0
2-Methylnaphthalene-d10	0.575	0.521	0.300	-9.4288	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	SBLK669	SDG No.:	BM032024
Lab Sample ID:	PB159669BL	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
BM044676.D	1	3/19/2024 12:00:00 AM	3/20/2024 12:00:00 AM	PB159669

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	5.173		15-120		65	SPK: -8
93951-69-0	Fluoranthene-d10	0.227		30-130		57	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.254		30-130		63	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5155		7.698			
1146-65-2	Naphthalene-d8	16367		10.474			
15067-26-2	Acenaphthene-d10	7647		14.345			
1517-22-2	Phenanthrene-d10	15243		17.095			
1719-03-5	Chrysene-d12	11579		21.309			
1520-96-3	Perylene-d12	10705		23.545			



Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	SBLK669	SDG No.:	BM032024
Lab Sample ID:	PB159669BL	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
BM044676.D	1	3/19/2024 12:00:00 AM	3/20/2024 12:00:00 AM	PB159669

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	C0AK2	SDG No.:	BM032024
Lab Sample ID:	P1779-08	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990 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
BM044677.D	1	3/19/2024 12:00:00 AM	3/20/2024 12:00:00 AM	PB159669

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.5		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	5.513		15-120		69	SPK: -8
93951-69-0	Fluoranthene-d10	0.33		30-130		83	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.358		30-130		90	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4508		7.698			
1146-65-2	Naphthalene-d8	14176		10.473			
15067-26-2	Acenaphthene-d10	6805		14.34			
1517-22-2	Phenanthrene-d10	13393		17.095			
1719-03-5	Chrysene-d12	10364		21.3			
1520-96-3	Perylene-d12	9257		23.542			



Report of Analysis

Client:		Date Collected:	3/18/2024 12:00:00 AM
Project:		Date Received:	3/18/2024 12:00:00 AM
Client Sample ID:	C0AK2	SDG No.:	BM032024
Lab Sample ID:	P1779-08	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
			uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044677.D	1	3/19/2024 12:00:00 AM	3/20/2024 12:00:00 AM	PB159669

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	SLCS669	SDG No.:	BM032024
Lab Sample ID:	PB159669BS	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
BM044678.D	1	3/19/2024 12:00:00 AM	3/20/2024 12:00:00 AM	PB159669

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.35		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.33		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.33		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.36		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.36		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.35		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.78		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.37		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.39		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.33		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.34		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.37		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	0.36		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.39		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.39		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.45		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.46		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.44		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.692		15-120		86	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.335		30-130		84	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.34		30-130		85	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4011		7.702			
1146-65-2	Naphthalene-d8	12157		10.484			
15067-26-2	Acenaphthene-d10	5824		14.344			
1517-22-2	Phenanthrene-d10	11409		17.106			
1719-03-5	Chrysene-d12	8752		21.304			
1520-96-3	Perylene-d12	10335		23.552			



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	3/19/2024 12:00:00 AM
Project:		Date Received:	3/19/2024 12:00:00 AM
Client Sample ID:	SLCS669	SDG No.:	BM032024
Lab Sample ID:	PB159669BS	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
BM044678.D	1	3/19/2024 12:00:00 AM	3/20/2024 12:00:00 AM	PB159669

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L



Hit Summary Sheet
SW-846

SDG No.: BM032024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	C0AK2							
P1779-08	C0AK2	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
P1779-08	C0AK2	Water	1,4-Dioxane		1.500	0.03	0.2	ug/L
			Total Svoc :			1.50		
			Total Concentration:			1.50		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031124

SAS No.: BM031124

SDG No.: BM031124

Instrument ID: _____

Calibration Date(s): 3/11/2024 : _____

Calibration Time(s): 10:30 _____

LAB FILE ID:		RRFAL1 = BM044571.D			RRFAL2 = BM044572.D		RRFAL3 = BM044573.D	
		RRFAL4 = BM044574.D			RRFAL5 = BM044575.D		RRFAL6 = BM044576.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.527	0.521	0.560	0.535	0.536	0.536	2.8
1,4-Dioxane-d8		0.553	0.527	0.525	0.511	0.505	0.524	3.6
Naphthalene	1.133	1.134	1.095	1.151	1.113		1.125	1.9
1-Methylnaphthalene	0.700	0.723	0.704	0.746	0.723		0.719	2.6
2-Methylnaphthalene	0.693	0.707	0.700	0.744	0.716		0.712	2.8
Acenaphthylene	2.058	2.060	1.965	2.049	2.029		2.032	1.9
Acenaphthene	1.490	1.493	1.431	1.490	1.435		1.468	2.2
Fluorene	1.667	1.696	1.651	1.717	1.655		1.677	1.7
Pentachlorophenol		0.088	0.078	0.096	0.101	0.119	0.096	15.9
Phenanthrene	1.189	1.195	1.168	1.245	1.207		1.201	2.4
Anthracene	1.103	1.124	1.093	1.180	1.139		1.128	3.0
Fluoranthene	1.946	1.960	1.986	1.973	1.929		1.959	1.1
Pyrene	2.050	2.026	2.018	2.008	1.930		2.007	2.3
Benzo(a)anthracene	1.456	1.477	1.457	1.616	1.607		1.523	5.4
Chrysene	1.798	1.761	1.700	1.697	1.595		1.710	4.5
Benzo(b)fluoranthene	1.502	1.484	1.492	1.589	1.566		1.527	3.1
Benzo(k)fluoranthene	1.732	1.664	1.616	1.703	1.553		1.654	4.3
Benzo(a)pyrene	1.423	1.390	1.316	1.415	1.388		1.386	3.1
Indeno(1,2,3-cd)pyrene	1.563	1.612	1.517	1.643	1.639		1.595	3.4
Dibenzo(a,h)anthracene	1.192	1.246	1.163	1.267	1.282		1.230	4.1
Benzo(g,h,i)perylene	1.423	1.434	1.370	1.402	1.370		1.400	2.1
Fluoranthene-d10	1.402	1.416	1.425	1.401	1.376		1.404	1.3
2-Methylnaphthalene-d10	0.553	0.574	0.568	0.596	0.583		0.575	2.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: BM032024 SAS No.: BM032024 SDG NO.: BM032024
 EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 20 2024 12:00AM
 Lab File ID: BM044573.D Time Analyzed: 10:34
 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	5865	7.724	19080	10.51	10924	14.37
UPPER LIMIT	11730	8.224	38160	11.007	21848	14.867
LOWER LIMIT	2932.5	7.224	9540	10.007	5462	13.867
EPA SAMPLE NO.						
01 SBLK669	5155	7.70	16367	10.47	7647	14.35
02 C0AK2	4508	7.70	14176	10.47	6805	14.34
03 SLCS669	4011	7.70	12157	10.48	5824	14.34

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: BM032024 SAS No.: BM032024 SDG NO.: BM032024
 EPA Sample No.: SSTD0.4056 Date Analyzed: Mar 20 2024 12:00AM
 Lab File ID: BM044675.D Time Analyzed: 10:34
 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	4959	7.698	15513	10.48	7450	14.34
UPPER LIMIT	9918	8.198	31026	10.979	14900	14.844
LOWER LIMIT	2479.5	7.198	7756.5	9.979	3725	13.844
EPA SAMPLE NO.						
01 SBLK669	5155	7.70	16367	10.47	7647	14.35
02 C0AK2	4508	7.70	14176	10.47	6805	14.34
03 SLCS669	4011	7.70	12157	10.48	5824	14.34

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM032024 SAS No.: BM032024 SDG NO.: BM032024

EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 20 2024 12:00AM

Lab File ID: BM044573.D Time Analyzed: 10:34

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	24518	17.119	15552	21.316	14990	23.575
UPPER LIMIT	49036	17.619	31104	21.816	29980	24.075
LOWER LIMIT	12259	16.619	7776	20.816	7495	23.075
EPA SAMPLE NO.						
01 SBLK669	15243	17.10	11579	21.31	10705	23.55
02 C0AK2	13393	17.10	10364	21.30	9257	23.54
03 SLCS669	11409 *	17.11	8752	21.30	10335	23.55

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM032024 SAS No.: BM032024 SDG NO.: BM032024

EPA Sample No.: SSTD0.4056 Date Analyzed: Mar 20 2024 12:00AM

Lab File ID: BM044675.D Time Analyzed: 10:34

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	14893	17.106	11656	21.301	13667	23.549
UPPER LIMIT	29786	17.606	23312	21.801	27334	24.049
LOWER LIMIT	7446.5	16.606	5828	20.801	6833.5	23.049
EPA SAMPLE NO.						
01 SBLK669	15243	17.10	11579	21.31	10705	23.55
02 C0AK2	13393	17.10	10364	21.30	9257	23.54
03 SLCS669	11409	17.11	8752	21.30	10335	23.55

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.: BM032024

Client: _____

Analytical Method: SFAM_SVOASIM DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159669BS	1,4-Dioxane	2	2	ug/L	100				0	0	
	Naphthalene	0.4	0.35	ug/L	88				0	0	
	1-Methylnaphthalene	0.4	0.33	ug/L	83				0	0	
	2-Methylnaphthalene	0.4	0.33	ug/L	83				0	0	
	Acenaphthylene	0.4	0.36	ug/L	90				0	0	
	Acenaphthene	0.4	0.36	ug/L	90				0	0	
	Fluorene	0.4	0.35	ug/L	88				0	0	
	Pentachlorophenol	0.8	0.78	ug/L	98				0	0	
	Phenanthrene	0.4	0.37	ug/L	93				0	0	
	Anthracene	0.4	0.39	ug/L	98				0	0	
	Fluoranthene	0.4	0.33	ug/L	83				0	0	
	Pyrene	0.4	0.34	ug/L	85				0	0	
	Benzo(a)anthracene	0.4	0.37	ug/L	93				0	0	
	Chrysene	0.4	0.4	ug/L	100				0	0	
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90				0	0	
	Benzo(k)fluoranthene	0.4	0.39	ug/L	98				0	0	
	Benzo(a)pyrene	0.4	0.39	ug/L	98				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.45	ug/L	113				0	0	
	Dibenzo(a,h)anthracene	0.4	0.46	ug/L	115				0	0	
	Benzo(g,h,i)perylene	0.4	0.44	ug/L	110				0	0	



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK669

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM032024SAS No.: BM032024 SDG NO.: BM032024Lab File ID: BM044676.DLab Sample ID: PB159669BLInstrument ID: BNA_MDate Extracted: 03/19/2024Matrix: (soil/water) WaterDate Analyzed: 03/20/2024Level: (low/med) LOWTime Analyzed: 10:34

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
C0AK2	P1779-08	BM044677.D	03/20/2024
PB159669BS	PB159669BS	BM044678.D	03/20/2024

COMMENTS: _____



Surrogate Summary
SW-846

SDG No.: BM032024

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1779-08	C0AK2	BM044677.D	1,4-Dioxane-d8	8	5.51	69		15	120
			Fluoranthene-d10	0.4	0.33	83		30	130
			2-Methylnaphthalene-d10	0.4	0.36	90		30	130
PB159669BL	PB159669BL	BM044676.D	1,4-Dioxane-d8	8	5.17	65		15	120
			Fluoranthene-d10	0.4	0.23	57		30	130
			2-Methylnaphthalene-d10	0.4	0.25	63		30	130
PB159669BS	PB159669BS	BM044678.D	1,4-Dioxane-d8	0.8	0.69	86		15	120
			Fluoranthene-d10	0.4	0.34	84		30	130
			2-Methylnaphthalene-d10	0.4	0.34	85		30	130



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BM032024Lab Code: CHEMSAS No.: BM032024 SDG NO.: BM032024Lab File ID: BM044674.DDFTPP Injection Date: 03/20/2024Instrument ID: BNA_MDFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.9
68	Less than 2.0% of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	42.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51
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	6.7
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	78.3
443	15.0 - 24.0% of mass 442	15 (19.1) 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
SSTD0.4056	SSTDCCC0.4	BM044675.D	03/20/2024	09:58
SBLK669	PB159669BL	BM044676.D	03/20/2024	10:34
C0AK2	P1779-08	BM044677.D	03/20/2024	11:10
SLCS669	PB159669BS	BM044678.D	03/20/2024	11:47
SSTD0.4057	SSTDCCC0.4EC	BM044679.D	03/20/2024	12:23