



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM031524 SAS No.: BM031524 SDG No.: BM031524

Instrument ID: BNA_M Calibration Date/Time: 3/14/2024 1:17:17

Lab File ID: BM044617.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4054 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	0.565	0.010	5.3715	40.0
1,4-Dioxane-d8	0.524	0.544	0.010	3.6749	40.0
Naphthalene	1.125	1.081	0.600	-3.9779	30.0
1-Methylnaphthalene	0.719	0.658	0.300	-8.5121	30.0
2-Methylnaphthalene	0.712	0.653	0.300	-8.2367	30.0
Acenaphthylene	2.032	1.987	0.900	-2.2096	30.0
Acenaphthene	1.468	1.414	0.500	-3.6407	30.0
Fluorene	1.677	1.585	0.700	-5.4775	30.0
Pentachlorophenol	0.096	0.095	0.010	-1.9081	50.0
Phenanthrene	1.201	1.146	0.300	-4.5662	30.0
Anthracene	1.128	1.105	0.400	-1.9832	30.0
Fluoranthene	1.959	1.508	0.400	-23.0064	30.0
Pyrene	2.007	1.581	0.500	-21.1906	30.0
Benzo(a)anthracene	1.523	1.495	0.400	-1.8285	30.0
Chrysene	1.710	1.638	0.400	-4.2075	30.0
Benzo(b)fluoranthene	1.527	1.416	0.200	-7.2674	30.0
Benzo(k)fluoranthene	1.654	1.581	0.200	-4.4066	30.0
Benzo(a)pyrene	1.386	1.330	0.200	-4.0449	30.0
Indeno(1,2,3-cd)pyrene	1.595	1.767	0.200	10.7758	30.0
Dibenzo(a,h)anthracene	1.230	1.424	0.200	15.7234	30.0
Benzo(g,h,i)perylene	1.400	1.483	0.200	5.8975	30.0
Fluoranthene-d10	1.404	1.099	0.400	-21.6958	30.0
2-Methylnaphthalene-d10	0.575	0.540	0.300	-6.0565	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.: BM031524 SAS No.: BM031524 SDG No.: BM031524

Instrument ID: BNA_M Calibration Date/Time: 3/14/2024 1: 20:56

Lab File ID: BM044622.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4055 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	0.612	0.010	14.2559	50.0
1,4-Dioxane-d8	0.524	0.565	0.010	7.6802	50.0
Naphthalene	1.125	1.077	0.600	-4.2556	50.0
1-Methylnaphthalene	0.719	0.648	0.300	-9.9516	50.0
2-Methylnaphthalene	0.712	0.644	0.300	-9.4683	50.0
Acenaphthylene	2.032	1.986	0.900	-2.2795	50.0
Acenaphthene	1.468	1.434	0.500	-2.2803	50.0
Fluorene	1.677	1.601	0.700	-4.5147	50.0
Pentachlorophenol	0.096	0.103	0.010	6.3582	50.0
Phenanthrene	1.201	1.136	0.300	-5.3943	50.0
Anthracene	1.128	1.112	0.400	-1.3985	50.0
Fluoranthene	1.959	1.458	0.400	-25.5743	50.0
Pyrene	2.007	1.535	0.500	-23.5171	50.0
Benzo (a) anthracene	1.523	1.484	0.400	-2.5498	50.0
Chrysene	1.710	1.679	0.400	-1.8036	50.0
Benzo (b) fluoranthene	1.527	1.415	0.200	-7.3313	50.0
Benzo (k) fluoranthene	1.654	1.631	0.200	-1.3359	50.0
Benzo (a) pyrene	1.386	1.373	0.200	-0.9966	50.0
Indeno (1,2,3-cd) pyrene	1.595	1.834	0.200	15.0224	50.0
Dibenzo (a,h) anthracene	1.230	1.464	0.200	19.0136	50.0
Benzo (g,h,i) perylene	1.400	1.517	0.200	8.3305	50.0
Fluoranthene-d10	1.404	1.061	0.400	-24.415	50.0
2-Methylnaphthalene-d10	0.575	0.523	0.300	-8.9634	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	3/13/2024 12:00:00 AM
Project:		Date Received:	3/13/2024 12:00:00 AM
Client Sample ID:	SBLK580	SDG No.:	BM031524
Lab Sample ID:	PB159580BL	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
BM044618.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

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	5.534		15-120		69	SPK: -8
93951-69-0	Fluoranthene-d10	0.256		30-130		64	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.291		30-130		73	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5636	7.707				
1146-65-2	Naphthalene-d8	18653	10.484				
15067-26-2	Acenaphthene-d10	9639	14.348				
1517-22-2	Phenanthrene-d10	21533	17.102				
1719-03-5	Chrysene-d12	18205	21.31				
1520-96-3	Perylene-d12	18017	23.552				



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Report of Analysis

Client:		Date Collected:	3/13/2024 12:00:00 AM
Project:		Date Received:	3/13/2024 12:00:00 AM
Client Sample ID:	SBLK580	SDG No.:	BM031524
Lab Sample ID:	PB159580BL	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
BM044618.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

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:	3/11/2024 12:00:00 AM
Project:		Date Received:	3/11/2024 12:00:00 AM
Client Sample ID:	C0AH9	SDG No.:	BM031524
Lab Sample ID:	P1729-01	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
BM044619.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.77		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	5.449		15-120		68	SPK: -8
93951-69-0	Fluoranthene-d10	0.321		30-130		80	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.321		30-130		80	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4574		7.707			
1146-65-2	Naphthalene-d8	15042		10.484			
15067-26-2	Acenaphthene-d10	7671		14.348			
1517-22-2	Phenanthrene-d10	16881		17.102			
1719-03-5	Chrysene-d12	14518		21.304			
1520-96-3	Perylene-d12	13710		23.549			



Report of Analysis

Client:		Date Collected:	3/11/2024 12:00:00 AM
Project:		Date Received:	3/11/2024 12:00:00 AM
Client Sample ID:	C0AH9	SDG No.:	BM031524
Lab Sample ID:	P1729-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	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
BM044619.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

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:	3/11/2024 12:00:00 AM
Project:		Date Received:	3/11/2024 12:00:00 AM
Client Sample ID:	C0AJ1	SDG No.:	BM031524
Lab Sample ID:	P1729-02	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
BM044620.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.75		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	4.95		15-120		62	SPK: -8
93951-69-0	Fluoranthene-d10	0.365		30-130		91	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.346		30-130		86	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4854	7.707				
1146-65-2	Naphthalene-d8	16133	10.485				
15067-26-2	Acenaphthene-d10	8334	14.349				
1517-22-2	Phenanthrene-d10	18799	17.103				
1719-03-5	Chrysene-d12	16173	21.3				
1520-96-3	Perylene-d12	15919	23.545				



Report of Analysis

Client:		Date Collected:	3/11/2024 12:00:00 AM
Project:		Date Received:	3/11/2024 12:00:00 AM
Client Sample ID:	C0AJ1	SDG No.:	BM031524
Lab Sample ID:	P1729-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	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
BM044620.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

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:	3/13/2024 12:00:00 AM
Project:		Date Received:	3/13/2024 12:00:00 AM
Client Sample ID:	SLCS580	SDG No.:	BM031524
Lab Sample ID:	PB159580BS	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
BM044621.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

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	0.34		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.32		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.32		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.35		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.34		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.34		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.74		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.35		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.36		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.28		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.28		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.35		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.36		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.35		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.36		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.36		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.42		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	0.4		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.715		15-120		89	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.288		30-130		72	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.334		30-130		83	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4112	7.711				
1146-65-2	Naphthalene-d8	12879	10.49				
15067-26-2	Acenaphthene-d10	6439	14.349				
1517-22-2	Phenanthrene-d10	13958	17.107				
1719-03-5	Chrysene-d12	12978	21.303				
1520-96-3	Perylene-d12	14965	23.551				



Report of Analysis

Client:		Date Collected:	3/13/2024 12:00:00 AM
Project:		Date Received:	3/13/2024 12:00:00 AM
Client Sample ID:	SLCS580	SDG No.:	BM031524
Lab Sample ID:	PB159580BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	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
BM044621.D	1	3/13/2024 12:00:00 AM	3/14/2024 12:00:00 AM	PB159580

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.: BM031524

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : C0AH9								
P1729-01	C0AH9	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P1729-01	C0AH9	Water	1,4-Dioxane		0.770	0.029	0.2	ug/L
			Total Svoc :			0.77		
			Total Concentration:			0.77		
Client ID : C0AJ1								
P1729-02	C0AJ1	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P1729-02	C0AJ1	Water	1,4-Dioxane		0.750	0.029	0.2	ug/L
			Total Svoc :			0.75		
			Total Concentration:			0.75		



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



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM031524 SAS No.: BM031524 SDG NO.: BM031524

EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 14 2024 12:00AM

Lab File ID: BM044573.D Time Analyzed: 17:53

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 SBLK580	5636	7.71	18653	10.48	9639	14.35
02 C0AH9	4574	7.71	15042	10.48	7671	14.35
03 C0AJ1	4854	7.71	16133	10.49	8334	14.35
04 SLCS580	4112	7.71	12879	10.49	6439	14.35

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.: BM031524 SAS No.: BM031524 SDG NO.: BM031524

EPA Sample No.: SSTD0.4054 Date Analyzed: Mar 14 2024 12:00AM

Lab File ID: BM044617.D Time Analyzed: 17:53

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	4389	7.711	14088	10.49	7220	14.35
UPPER LIMIT	8778	8.211	28176	10.99	14440	14.849
LOWER LIMIT	2194.5	7.211	7044	9.99	3610	13.849
EPA SAMPLE NO.						
01 SBLK580	5636	7.71	18653	10.48	9639	14.35
02 C0AH9	4574	7.71	15042	10.48	7671	14.35
03 C0AJ1	4854	7.71	16133	10.49	8334	14.35
04 SLCS580	4112	7.71	12879	10.49	6439	14.35

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.: BM031524 SAS No.: BM031524 SDG NO.: BM031524

EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 14 2024 12:00AM

Lab File ID: BM044573.D Time Analyzed: 17:53

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 SBLK580	21533	17.10	18205	21.31	18017	23.55
02 C0AH9	16881	17.10	14518	21.30	13710	23.55
03 C0AJ1	18799	17.10	16173	21.30	15919	23.55
04 SLCS580	13958	17.11	12978	21.30	14965	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.: BM031524 SAS No.: BM031524 SDG NO.: BM031524

EPA Sample No.: SSTD0.4054 Date Analyzed: Mar 14 2024 12:00AM

Lab File ID: BM044617.D Time Analyzed: 17:53

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	16113	17.107	14457	21.303	16930	23.557
UPPER LIMIT	32226	17.607	28914	21.803	33860	24.057
LOWER LIMIT	8056.5	16.607	7228.5	20.803	8465	23.057
EPA SAMPLE NO.						
01 SBLK580	21533	17.10	18205	21.31	18017	23.55
02 C0AH9	16881	17.10	14518	21.30	13710	23.55
03 C0AJ1	18799	17.10	16173	21.30	15919	23.55
04 SLCS580	13958	17.11	12978	21.30	14965	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.: BM031524

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159580BS	1,4-Dioxane	2	1.9	ug/L	95				0	0	
	Naphthalene	0.4	0.34	ug/L	85				0	0	
	1-Methylnaphthalene	0.4	0.32	ug/L	80				0	0	
	2-Methylnaphthalene	0.4	0.32	ug/L	80				0	0	
	Acenaphthylene	0.4	0.35	ug/L	88				0	0	
	Acenaphthene	0.4	0.34	ug/L	85				0	0	
	Fluorene	0.4	0.34	ug/L	85				0	0	
	Pentachlorophenol	0.8	0.74	ug/L	93				0	0	
	Phenanthrene	0.4	0.35	ug/L	88				0	0	
	Anthracene	0.4	0.36	ug/L	90				0	0	
	Fluoranthene	0.4	0.28	ug/L	70				0	0	
	Pyrene	0.4	0.28	ug/L	70				0	0	
	Benzo(a)anthracene	0.4	0.35	ug/L	88				0	0	
	Chrysene	0.4	0.36	ug/L	90				0	0	
	Benzo(b)fluoranthene	0.4	0.35	ug/L	88				0	0	
	Benzo(k)fluoranthene	0.4	0.36	ug/L	90				0	0	
	Benzo(a)pyrene	0.4	0.36	ug/L	90				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.42	ug/L	105				0	0	
	Dibenzo(a,h)anthracene	0.4	0.43	ug/L	108				0	0	
	Benzo(g,h,i)perylene	0.4	0.4	ug/L	100				0	0	



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK580

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031524SAS No.: BM031524 SDG NO.: BM031524Lab File ID: BM044618.DLab Sample ID: PB159580BLInstrument ID: BNA_MDate Extracted: 03/13/2024Matrix: (soil/water) WaterDate Analyzed: 03/14/2024Level: (low/med) LOWTime Analyzed: 17:53

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
C0AH9	P1729-01	BM044619.D	03/14/2024
C0AJ1	P1729-02	BM044620.D	03/14/2024
PB159580BS	PB159580BS	BM044621.D	03/14/2024

COMMENTS: _____



Surrogate Summary
SW-846

SDG No.: BM031524

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1729-01	C0AH9	BM044619.D	1,4-Dioxane-d8	8	5.45	68		15	120
			Fluoranthene-d10	0.4	0.32	80		30	130
			2-Methylnaphthalene-d10	0.4	0.32	80		30	130
P1729-02	C0AJ1	BM044620.D	1,4-Dioxane-d8	8	4.95	62		15	120
			Fluoranthene-d10	0.4	0.37	91		30	130
			2-Methylnaphthalene-d10	0.4	0.35	86		30	130
PB159580BL	PB159580BL	BM044618.D	1,4-Dioxane-d8	8	5.53	69		15	120
			Fluoranthene-d10	0.4	0.26	64		30	130
			2-Methylnaphthalene-d10	0.4	0.29	73		30	130
PB159580BS	PB159580BS	BM044621.D	1,4-Dioxane-d8	0.8	0.72	89		15	120
			Fluoranthene-d10	0.4	0.29	72		30	130
			2-Methylnaphthalene-d10	0.4	0.33	83		30	130

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM031524

Lab Code: CHEM

SAS No.: BM031524 SDG NO.: BM031524

Lab File ID: BM044616.D

DFTPP Injection Date: 03/14/2024

Instrument ID: BNA_M

DFTPP Injection Time: 16:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.4
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	23.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	12.7
442	Greater than 50% of mass 198	80.7
443	15.0 - 24.0% of mass 442	15.5 (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
SSTD0.4054	SSTDCCC0.4	BM044617.D	03/14/2024	17:17
SBLK580	PB159580BL	BM044618.D	03/14/2024	17:53
C0AH9	P1729-01	BM044619.D	03/14/2024	18:30
C0AJ1	P1729-02	BM044620.D	03/14/2024	19:07
SLCS580	PB159580BS	BM044621.D	03/14/2024	19:43
SSTD0.4055	SSTDCCC0.4EC	BM044622.D	03/14/2024	20:56