

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM042724 SAS No.: BM042724 SDG No.: BM042724
Instrument ID: BNA_M Calibration Date/Time: 4/27/2024 11:42
Lab File ID: BM045607.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4099 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.516	0.505	0.010	-2.0741	40.0
1,4-Dioxane-d8	0.536	0.538	0.010	0.2876	40.0
Naphthalene	1.074	1.073	0.600	-0.0738	30.0
1-Methylnaphthalene	0.688	0.654	0.300	-4.9366	30.0
2-Methylnaphthalene	0.614	0.623	0.300	1.478	30.0
Acenaphthylene	1.973	2.133	0.900	8.129	30.0
Acenaphthene	1.465	1.480	0.500	1.0155	30.0
Fluorene	1.567	1.463	0.700	-6.614	30.0
Pentachlorophenol	0.080	0.089	0.010	11.9682	50.0
Phenanthrene	1.165	1.098	0.300	-5.7515	30.0
Anthracene	1.090	1.097	0.400	0.6893	30.0
Fluoranthene	1.846	1.691	0.400	-8.4033	30.0
Pyrene	1.897	1.803	0.500	-4.9732	30.0
Benzo (a) anthracene	1.279	1.501	0.400	17.3933	30.0
Chrysene	1.966	1.950	0.400	-0.8184	30.0
Benzo (b) fluoranthene	1.346	1.318	0.200	-2.0579	30.0
Benzo (k) fluoranthene	1.700	1.587	0.200	-6.6683	30.0
Benzo (a) pyrene	1.395	1.416	0.200	1.4643	30.0
Indeno (1,2,3-cd) pyrene	2.028	2.055	0.200	1.321	30.0
Dibenzo (a,h) anthracene	1.609	1.588	0.200	-1.2541	30.0
Benzo (g,h,i) perylene	1.822	1.788	0.200	-1.9168	30.0
Fluoranthene-d10	1.259	1.115	0.400	-11.4307	30.0
2-Methylnaphthalene-d10	0.528	0.490	0.300	-7.2044	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.: BM042724 SAS No.: BM042724 SDG No.: BM042724

Instrument ID: BNA_M Calibration Date/Time: 4/27/2024 1:16:33

Lab File ID: BM045614.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4100 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.516	0.600	0.010	16.2584	50.0
1,4-Dioxane-d8	0.536	0.567	0.010	5.7056	50.0
Naphthalene	1.074	1.099	0.600	2.3561	50.0
1-Methylnaphthalene	0.688	0.674	0.300	-2.0437	50.0
2-Methylnaphthalene	0.614	0.609	0.300	-0.7586	50.0
Acenaphthylene	1.973	2.130	0.900	7.9679	50.0
Acenaphthene	1.465	1.494	0.500	1.9857	50.0
Fluorene	1.567	1.480	0.700	-5.5579	50.0
Pentachlorophenol	0.080	0.107	0.010	34.4191	50.0
Phenanthrene	1.165	1.125	0.300	-3.4268	50.0
Anthracene	1.090	1.138	0.400	4.4545	50.0
Fluoranthene	1.846	1.634	0.400	-11.4801	50.0
Pyrene	1.897	1.768	0.500	-6.8426	50.0
Benzo (a) anthracene	1.279	1.503	0.400	17.5421	50.0
Chrysene	1.966	1.827	0.400	-7.0835	50.0
Benzo (b) fluoranthene	1.346	1.276	0.200	-5.1656	50.0
Benzo (k) fluoranthene	1.700	1.501	0.200	-11.6925	50.0
Benzo (a) pyrene	1.395	1.378	0.200	-1.2316	50.0
Indeno (1,2,3-cd) pyrene	2.028	1.971	0.200	-2.8161	50.0
Dibenzo (a,h) anthracene	1.609	1.528	0.200	-5.0329	50.0
Benzo (g,h,i) perylene	1.822	1.655	0.200	-9.1739	50.0
Fluoranthene-d10	1.259	1.080	0.400	-14.2295	50.0
2-Methylnaphthalene-d10	0.528	0.500	0.300	-5.2493	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	4/26/2024 12:00:00 AM
Project:		Date Received:	4/26/2024 12:00:00 AM
Client Sample ID:	SBLK562	SDG No.:	BM042724
Lab Sample ID:	PB160562BL	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
BM045608.D	1	4/26/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160562

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	5.978		15-120		75	SPK: -8
93951-69-0	Fluoranthene-d10	0.312		30-130		78	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.344		30-130		86	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	860	7.538				
1146-65-2	Naphthalene-d8	2317	10.303				
15067-26-2	Acenaphthene-d10	1104	14.191				

Report of Analysis

Client:		Date Collected:	4/26/2024 12:00:00 AM
Project:		Date Received:	4/26/2024 12:00:00 AM
Client Sample ID:	SBLK562	SDG No.:	BM042724
Lab Sample ID:	PB160562BL	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
BM045608.D	1	4/26/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160562

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	2022	16.954				
1719-03-5	Chrysene-d12	1574	21.19				
1520-96-3	Perylene-d12	1858	23.362				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CW8DL	SDG No.:	BM042724
Lab Sample ID:	P2203-09DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	7.3
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM045609.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.8	U	4.8	0	36	ug/Kg
91-20-3	Naphthalene	150	D	1.1	4.4	18	ug/Kg
90-12-0	1-Methylnaphthalene	67	D	2.8	4.4	18	ug/Kg
91-57-6	2-Methylnaphthalene	130	D	1	4.4	18	ug/Kg
208-96-8	Acenaphthylene	68	D	1.8	4.4	18	ug/Kg
83-32-9	Acenaphthene	17	JD	0.97	4.4	18	ug/Kg
86-73-7	Fluorene	44	D	1.2	4.4	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9	36	ug/Kg
85-01-8	Phenanthrene	350	ED	0.97	4.4	18	ug/Kg
120-12-7	Anthracene	85	D	0.92	4.4	18	ug/Kg
206-44-0	Fluoranthene	410	ED	0.97	4.4	18	ug/Kg
129-00-0	Pyrene	400	ED	1.3	4.4	18	ug/Kg
56-55-3	Benzo(a)anthracene	340	ED	0.5	4.4	18	ug/Kg
218-01-9	Chrysene	260	D	1.3	4.4	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	540	ED	2.5	4.4	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	140	D	1.7	4.4	18	ug/Kg
50-32-8	Benzo(a)pyrene	330	ED	1.7	4.4	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	240	D	2.8	4.4	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	84	D	2.5	4.4	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	300	ED	4	4.4	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	7.285		15-120		91	SPK: -8
93951-69-0	Fluoranthene-d10	0.54	*	30-130		135	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.58	*	20-140		145	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	688		7.538			
1146-65-2	Naphthalene-d8	1844		10.309			
15067-26-2	Acenaphthene-d10	991		14.191			

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CW8DL	SDG No.:	BM042724
Lab Sample ID:	P2203-09DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	7.3
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM045609.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	2008	16.954				
1719-03-5	Chrysene-d12	1644	21.172				
1520-96-3	Perylene-d12	2262	23.355				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.8	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CW9DL	SDG No.:	BM042724
Lab Sample ID:	P2203-17DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	7.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM045610.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.8	U	4.8	0	36	ug/Kg
91-20-3	Naphthalene	520	ED	1.1	4.4	18	ug/Kg
90-12-0	1-Methylnaphthalene	34	D	2.8	4.4	18	ug/Kg
91-57-6	2-Methylnaphthalene	76	D	1	4.4	18	ug/Kg
208-96-8	Acenaphthylene	130	D	1.8	4.4	18	ug/Kg
83-32-9	Acenaphthene	8.6	JD	0.97	4.4	18	ug/Kg
86-73-7	Fluorene	60	D	1.2	4.4	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9	36	ug/Kg
85-01-8	Phenanthrene	660	ED	0.97	4.4	18	ug/Kg
120-12-7	Anthracene	280	D	0.91	4.4	18	ug/Kg
206-44-0	Fluoranthene	930	ED	0.97	4.4	18	ug/Kg
129-00-0	Pyrene	790	ED	1.3	4.4	18	ug/Kg
56-55-3	Benzo(a)anthracene	570	ED	0.5	4.4	18	ug/Kg
218-01-9	Chrysene	320	ED	1.3	4.4	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	590	ED	2.5	4.4	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	170	D	1.7	4.4	18	ug/Kg
50-32-8	Benzo(a)pyrene	440	ED	1.7	4.4	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	250	D	2.8	4.4	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	65	D	2.5	4.4	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	280	D	4	4.4	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.45		15-120		68	SPK: -8
93951-69-0	Fluoranthene-d10	0.29		30-130		72	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.335		20-140		84	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1001		7.547			
1146-65-2	Naphthalene-d8	2752		10.309			
15067-26-2	Acenaphthene-d10	1309		14.191			

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CW9DL	SDG No.:	BM042724
Lab Sample ID:	P2203-17DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	7.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM045610.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	2462	16.954				
1719-03-5	Chrysene-d12	2142	21.172				
1520-96-3	Perylene-d12	2996	23.358				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.8	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CX0DL	SDG No.:	BM042724
Lab Sample ID:	P2203-18DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	8.8
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM045611.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.9	U	4.9	0	37	ug/Kg
91-20-3	Naphthalene	370	ED	1.1	4.5	18	ug/Kg
90-12-0	1-Methylnaphthalene	41	D	2.8	4.5	18	ug/Kg
91-57-6	2-Methylnaphthalene	64	D	1	4.5	18	ug/Kg
208-96-8	Acenaphthylene	100	D	1.8	4.5	18	ug/Kg
83-32-9	Acenaphthene	8.6	JD	0.98	4.5	18	ug/Kg
86-73-7	Fluorene	27	D	1.2	4.5	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9.2	37	ug/Kg
85-01-8	Phenanthrene	550	ED	0.98	4.5	18	ug/Kg
120-12-7	Anthracene	68	D	0.93	4.5	18	ug/Kg
206-44-0	Fluoranthene	220	D	0.98	4.5	18	ug/Kg
129-00-0	Pyrene	170	D	1.3	4.5	18	ug/Kg
56-55-3	Benzo(a)anthracene	110	D	0.51	4.5	18	ug/Kg
218-01-9	Chrysene	57	D	1.4	4.5	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	D	2.6	4.5	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	29	D	1.7	4.5	18	ug/Kg
50-32-8	Benzo(a)pyrene	69	D	1.7	4.5	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	D	2.8	4.5	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	12	JD	2.6	4.5	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	50	D	4.1	4.5	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.45		15-120		68	SPK: -8
93951-69-0	Fluoranthene-d10	0.29		30-130		72	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.355		20-140		89	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	835		7.547			
1146-65-2	Naphthalene-d8	2446		10.309			
15067-26-2	Acenaphthene-d10	1214		14.196			

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CX0DL	SDG No.:	BM042724
Lab Sample ID:	P2203-18DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	8.8
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM045611.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	2323	16.959				
1719-03-5	Chrysene-d12	1982	21.179				
1520-96-3	Perylene-d12	2715	23.362				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.9	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CY7DL	SDG No.:	BM042724
Lab Sample ID:	P2203-19DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	7.2
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM045612.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.8	U	4.8	0	36	ug/Kg
91-20-3	Naphthalene	86	D	1.1	4.4	18	ug/Kg
90-12-0	1-Methylnaphthalene	39	D	2.8	4.4	18	ug/Kg
91-57-6	2-Methylnaphthalene	80	D	1	4.4	18	ug/Kg
208-96-8	Acenaphthylene	44	D	1.8	4.4	18	ug/Kg
83-32-9	Acenaphthene	6.5	JD	0.97	4.4	18	ug/Kg
86-73-7	Fluorene	27	D	1.2	4.4	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9	36	ug/Kg
85-01-8	Phenanthrene	240	D	0.97	4.4	18	ug/Kg
120-12-7	Anthracene	47	D	0.92	4.4	18	ug/Kg
206-44-0	Fluoranthene	270	D	0.97	4.4	18	ug/Kg
129-00-0	Pyrene	250	D	1.3	4.4	18	ug/Kg
56-55-3	Benzo(a)anthracene	190	D	0.5	4.4	18	ug/Kg
218-01-9	Chrysene	150	D	1.3	4.4	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	290	ED	2.5	4.4	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	61	D	1.7	4.4	18	ug/Kg
50-32-8	Benzo(a)pyrene	170	D	1.7	4.4	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	D	2.8	4.4	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	39	D	2.5	4.4	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	D	4	4.4	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.92		15-120		62	SPK: -8
93951-69-0	Fluoranthene-d10	0.28		30-130		70	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.325		20-140		81	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	992		7.542			
1146-65-2	Naphthalene-d8	2668		10.308			
15067-26-2	Acenaphthene-d10	1329		14.191			

Report of Analysis

Client:		Date Collected:	4/19/2024 12:00:00 AM
Project:		Date Received:	4/19/2024 12:00:00 AM
Client Sample ID:	E1CY7DL	SDG No.:	BM042724
Lab Sample ID:	P2203-19DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	7.2
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BM045612.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	2559	16.959				
1719-03-5	Chrysene-d12	2136	21.175				
1520-96-3	Perylene-d12	3031	23.362				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.8	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	4/22/2024 12:00:00 AM
Project:		Date Received:	4/22/2024 12:00:00 AM
Client Sample ID:	E1CX4DL	SDG No.:	BM042724
Lab Sample ID:	P2203-20DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	9.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM045613.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.9	U	4.9	0	37	ug/Kg
91-20-3	Naphthalene	200	D	1.1	4.5	18	ug/Kg
90-12-0	1-Methylnaphthalene	40	D	2.9	4.5	18	ug/Kg
91-57-6	2-Methylnaphthalene	94	D	1	4.5	18	ug/Kg
208-96-8	Acenaphthylene	28	D	1.8	4.5	18	ug/Kg
83-32-9	Acenaphthene	150	D	0.99	4.5	18	ug/Kg
86-73-7	Fluorene	170	D	1.2	4.5	18	ug/Kg
87-86-5	Pentachlorophenol	11	U	11	9.2	37	ug/Kg
85-01-8	Phenanthrene	650	ED	0.99	4.5	18	ug/Kg
120-12-7	Anthracene	220	D	0.93	4.5	18	ug/Kg
206-44-0	Fluoranthene	440	ED	0.99	4.5	18	ug/Kg
129-00-0	Pyrene	310	ED	1.3	4.5	18	ug/Kg
56-55-3	Benzo(a)anthracene	210	D	0.51	4.5	18	ug/Kg
218-01-9	Chrysene	130	D	1.4	4.5	18	ug/Kg
205-99-2	Benzo(b)fluoranthene	190	D	2.6	4.5	18	ug/Kg
207-08-9	Benzo(k)fluoranthene	53	D	1.8	4.5	18	ug/Kg
50-32-8	Benzo(a)pyrene	120	D	1.8	4.5	18	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	67	D	2.9	4.5	18	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	23	D	2.6	4.5	18	ug/Kg
191-24-2	Benzo(g,h,i)perylene	71	D	4.1	4.5	18	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.555		15-120		69	SPK: -8
93951-69-0	Fluoranthene-d10	0.325		30-130		81	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.36		20-140		90	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1179		7.542			
1146-65-2	Naphthalene-d8	3150		10.308			
15067-26-2	Acenaphthene-d10	1449		14.191			

Report of Analysis

Client:		Date Collected:	4/22/2024 12:00:00 AM
Project:		Date Received:	4/22/2024 12:00:00 AM
Client Sample ID:	E1CX4DL	SDG No.:	BM042724
Lab Sample ID:	P2203-20DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	9.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BM045613.D	5	4/25/2024 12:00:00 AM	4/27/2024 12:00:00 AM	PB160531

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	2676	16.954				
1719-03-5	Chrysene-d12	2294	21.175				
1520-96-3	Perylene-d12	3184	23.362				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	4.9	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM042724

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : E1CW8DL								
P2203-09DL	E1CW8DL	Solid	Total Alkanes	*	0.000	D 4.8	36	ug/Kg
			Total Tics :			0.00		
P2203-09DL	E1CW8DL	Solid	1-Methylnaphthalene	67.000	D	2.8	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	2-Methylnaphthalene	130.000	D	1	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Acenaphthene	17.000	JD	0.97	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Acenaphthylene	68.000	D	1.8	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Anthracene	85.000	D	0.92	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Benzo(a)anthracene	340.000	ED	0.5	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Benzo(a)pyrene	330.000	ED	1.7	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Benzo(b)fluoranthene	540.000	ED	2.5	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Benzo(g,h,i)perylene	300.000	ED	4	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Benzo(k)fluoranthene	140.000	D	1.7	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Chrysene	260.000	D	1.3	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Dibenzo(a,h)anthracene	84.000	D	2.5	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Fluoranthene	410.000	ED	0.97	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Fluorene	44.000	D	1.2	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Indeno(1,2,3-cd)pyrene	240.000	D	2.8	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Naphthalene	150.000	D	1.1	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Phenanthrene	350.000	ED	0.97	18	ug/Kg
P2203-09DL	E1CW8DL	Solid	Pyrene	400.000	ED	1.3	18	ug/Kg
			Total Svoc :			3,955.00		
			Total Concentration:			3,955.00		
Client ID : E1CW9DL								
P2203-17DL	E1CW9DL	Solid	Total Alkanes	*	0.000	D 4.8	36	ug/Kg
			Total Tics :			0.00		
P2203-17DL	E1CW9DL	Solid	1-Methylnaphthalene	34.000	D	2.8	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	2-Methylnaphthalene	76.000	D	1	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Acenaphthene	8.600	JD	0.97	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Acenaphthylene	130.000	D	1.8	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Anthracene	280.000	D	0.91	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Benzo(a)anthracene	570.000	ED	0.5	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Benzo(a)pyrene	440.000	ED	1.7	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Benzo(b)fluoranthene	590.000	ED	2.5	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Benzo(g,h,i)perylene	280.000	D	4	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Benzo(k)fluoranthene	170.000	D	1.7	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Chrysene	320.000	ED	1.3	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Dibenzo(a,h)anthracene	65.000	D	2.5	18	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM042724

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P2203-17DL	E1CW9DL	Solid	Fluoranthene	930.000	ED	0.97	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Fluorene	60.000	D	1.2	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Indeno(1,2,3-cd)pyrene	250.000	D	2.8	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Naphthalene	520.000	ED	1.1	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Phenanthrene	660.000	ED	0.97	18	ug/Kg
P2203-17DL	E1CW9DL	Solid	Pyrene	790.000	ED	1.3	18	ug/Kg
Total Svoc :				6,173.60				
Total Concentration:				6,173.60				
Client ID : E1CX0DL								
P2203-18DL	E1CX0DL	Solid	Total Alkanes	*	0.000	D 4.9	37	ug/Kg
Total Tics :				0.00				
P2203-18DL	E1CX0DL	Solid	1-Methylnaphthalene	41.000	D	2.8	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	2-Methylnaphthalene	64.000	D	1	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Acenaphthene	8.600	JD	0.98	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Acenaphthylene	100.000	D	1.8	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Anthracene	68.000	D	0.93	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Benzo(a)anthracene	110.000	D	0.51	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Benzo(a)pyrene	69.000	D	1.7	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Benzo(b)fluoranthene	100.000	D	2.6	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Benzo(g,h,i)perylene	50.000	D	4.1	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Benzo(k)fluoranthene	29.000	D	1.7	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Chrysene	57.000	D	1.4	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Dibenzo(a,h)anthracene	12.000	JD	2.6	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Fluoranthene	220.000	D	0.98	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Fluorene	27.000	D	1.2	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Indeno(1,2,3-cd)pyrene	42.000	D	2.8	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Naphthalene	370.000	ED	1.1	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Phenanthrene	550.000	ED	0.98	18	ug/Kg
P2203-18DL	E1CX0DL	Solid	Pyrene	170.000	D	1.3	18	ug/Kg
Total Svoc :				2,087.60				
Total Concentration:				2,087.60				
Client ID : E1CY7DL								
P2203-19DL	E1CY7DL	Solid	Total Alkanes	*	0.000	D 4.8	36	ug/Kg
Total Tics :				0.00				
P2203-19DL	E1CY7DL	Solid	1-Methylnaphthalene	39.000	D	2.8	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	2-Methylnaphthalene	80.000	D	1	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Acenaphthene	6.500	JD	0.97	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Acenaphthylene	44.000	D	1.8	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Anthracene	47.000	D	0.92	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Benzo(a)anthracene	190.000	D	0.5	18	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM042724

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P2203-19DL	E1CY7DL	Solid	Benzo(a)pyrene	170.000	D	1.7	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Benzo(b)fluoranthene	290.000	ED	2.5	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Benzo(g,h,i)perylene	140.000	D	4	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Benzo(k)fluoranthene	61.000	D	1.7	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Chrysene	150.000	D	1.3	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Dibenzo(a,h)anthracene	39.000	D	2.5	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Fluoranthene	270.000	D	0.97	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Fluorene	27.000	D	1.2	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Indeno(1,2,3-cd)pyrene	120.000	D	2.8	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Naphthalene	86.000	D	1.1	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Phenanthrene	240.000	D	0.97	18	ug/Kg
P2203-19DL	E1CY7DL	Solid	Pyrene	250.000	D	1.3	18	ug/Kg
Total Svoc :				2,249.50				
Total Concentration:				2,249.50				

Client ID : E1CX4DL

P2203-20DL	E1CX4DL	Solid	Total Alkanes	*	0.000	D	4.9	37	ug/Kg
Total Tics :				0.00					
P2203-20DL	E1CX4DL	Solid	1-Methylnaphthalene		40.000	D	2.9	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	2-Methylnaphthalene		94.000	D	1	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Acenaphthene		150.000	D	0.99	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Acenaphthylene		28.000	D	1.8	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Anthracene		220.000	D	0.93	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Benzo(a)anthracene		210.000	D	0.51	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Benzo(a)pyrene		120.000	D	1.8	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Benzo(b)fluoranthene		190.000	D	2.6	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Benzo(g,h,i)perylene		71.000	D	4.1	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Benzo(k)fluoranthene		53.000	D	1.8	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Chrysene		130.000	D	1.4	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Dibenzo(a,h)anthracene		23.000	D	2.6	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Fluoranthene		440.000	ED	0.99	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Fluorene		170.000	D	1.2	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Indeno(1,2,3-cd)pyrene		67.000	D	2.9	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Naphthalene		200.000	D	1.1	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Phenanthrene		650.000	ED	0.99	18	ug/Kg
P2203-20DL	E1CX4DL	Solid	Pyrene		310.000	ED	1.3	18	ug/Kg
Total Svoc :				3,166.00					
Total Concentration:				3,166.00					



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM042024 SAS No.: BM042024 SDG No.: BM042024
Instrument ID: _____ Calibration Date(s): 4/20/2024 : _____
Calibration Time(s): 13:42 _____

LAB FILE ID:		RRFAL1 = BM045422.D			RRFAL2 = BM045423.D		RRFAL3 = BM045424.D	
		RRFAL4 = BM045425.D			RRFAL5 = BM045426.D		RRFAL6 = BM045427.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.605	0.525	0.495	0.480	0.475	0.516	10.4
1,4-Dioxane-d8		0.633	0.595	0.508	0.482	0.463	0.536	13.8
Naphthalene	1.089	1.048	1.108	1.078	1.048		1.074	2.4
1-Methylnaphthalene	0.680	0.672	0.703	0.714	0.671		0.688	2.8
2-Methylnaphthalene	0.553	0.551	0.656	0.669	0.638		0.614	9.3
Acenaphthylene	2.015	1.942	1.961	1.972	1.973		1.973	1.4
Acenaphthene	1.462	1.439	1.470	1.481	1.472		1.465	1.1
Fluorene	1.508	1.588	1.512	1.612	1.615		1.567	3.4
Pentachlorophenol		0.062	0.080	0.075	0.093	0.088	0.080	15.1
Phenanthrene	1.170	1.182	1.140	1.163	1.171		1.165	1.4
Anthracene	1.079	1.103	1.064	1.083	1.121		1.090	2.0
Fluoranthene	1.793	2.094	1.820	1.978	1.544		1.846	11.3
Pyrene	1.904	2.146	1.866	1.983	1.589		1.897	10.7
Benzo(a)anthracene	1.095	1.194	1.337	1.355	1.412		1.279	10.2
Chrysene	2.258	2.069	2.006	1.843	1.654		1.966	11.7
Benzo(b)fluoranthene	1.271	1.339	1.314	1.400	1.403		1.346	4.2
Benzo(k)fluoranthene	1.767	1.831	1.687	1.634	1.581		1.700	5.9
Benzo(a)pyrene	1.476	1.394	1.371	1.358	1.379		1.395	3.3
Indeno(1,2,3-cd)pyrene	2.064	2.016	2.016	2.034	2.011		2.028	1.1
Dibenzo(a,h)anthracene	1.643	1.592	1.591	1.611	1.606		1.609	1.3
Benzo(g,h,i)perylene	1.911	1.853	1.821	1.791	1.737		1.822	3.6
Fluoranthene-d10	1.159	1.428	1.259	1.376	1.075		1.259	11.7
2-Methylnaphthalene-d10	0.505	0.513	0.542	0.553	0.524		0.528	3.8

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.: BM042724 SAS No.: BM042724 SDG NO.: BM042724

EPA Sample No.: SSTD0.4031 Date Analyzed: Apr 27 2024 12:00AM

Lab File ID: BM045424.D Time Analyzed: 12:18

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	787	7.585	2144	10.37	1138	14.23
UPPER LIMIT	1574	8.085	4288	10.874	2276	14.728
LOWER LIMIT	393.5	7.085	1072	9.874	569	13.728
EPA SAMPLE NO.						
01 SBLK562	860	7.54	2317	10.30	1104	14.19
02 E1CW8DL	688	7.54	1844	10.31	991	14.19
03 E1CW9DL	1001	7.55	2752	10.31	1309	14.19
04 E1CX0DL	835	7.55	2446	10.31	1214	14.20
05 E1CY7DL	992	7.54	2668	10.31	1329	14.19
06 E1CX4DL	1179	7.54	3150	10.31	1449	14.19

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.: BM042724 SAS No.: BM042724 SDG NO.: BM042724

EPA Sample No.: SSTD0.4099 Date Analyzed: Apr 27 2024 12:00AM

Lab File ID: BM045607.D Time Analyzed: 12:18

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	889	7.551	2480	10.32	1090	14.20
UPPER LIMIT	1778	8.051	4960	10.82	2180	14.701
LOWER LIMIT	444.5	7.051	1240	9.82	545	13.701
EPA SAMPLE NO.						
01 SBLK562	860	7.54	2317	10.30	1104	14.19
02 E1CW8DL	688	7.54	1844	10.31	991	14.19
03 E1CW9DL	1001	7.55	2752	10.31	1309	14.19
04 E1CX0DL	835	7.55	2446	10.31	1214	14.20
05 E1CY7DL	992	7.54	2668	10.31	1329	14.19
06 E1CX4DL	1179	7.54	3150	10.31	1449	14.19

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.: BM042724 SAS No.: BM042724 SDG NO.: BM042724

EPA Sample No.: SSTD0.4031 Date Analyzed: Apr 27 2024 12:00AM

Lab File ID: BM045424.D Time Analyzed: 12:18

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	2172	17.005	1443	21.216	2117	23.42
UPPER LIMIT	4344	17.505	2886	21.716	4234	23.92
LOWER LIMIT	1086	16.505	721.5	20.716	1058.5	22.92
EPA SAMPLE NO.						
01 SBLK562	2022	16.95	1574	21.19	1858	23.36
02 E1CW8DL	2008	16.95	1644	21.17	2262	23.36
03 E1CW9DL	2462	16.95	2142	21.17	2996	23.36
04 E1CX0DL	2323	16.96	1982	21.18	2715	23.36
05 E1CY7DL	2559	16.96	2136	21.18	3031	23.36
06 E1CX4DL	2676	16.95	2294	21.18	3184	23.36

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.: BM042724 SAS No.: BM042724 SDG NO.: BM042724

EPA Sample No.: SSTD0.4099 Date Analyzed: Apr 27 2024 12:00AM

Lab File ID: BM045607.D Time Analyzed: 12:18

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	1971	16.972	1533	21.185	2325	23.368
UPPER LIMIT	3942	17.472	3066	21.685	4650	23.868
LOWER LIMIT	985.5	16.472	766.5	20.685	1162.5	22.868
EPA SAMPLE NO.						
01 SBLK562	2022	16.95	1574	21.19	1858	23.36
02 E1CW8DL	2008	16.95	1644	21.17	2262	23.36
03 E1CW9DL	2462	16.95	2142	21.17	2996	23.36
04 E1CX0DL	2323	16.96	1982	21.18	2715	23.36
05 E1CY7DL	2559	16.96	2136	21.18	3031	23.36
06 E1CX4DL	2676	16.95	2294	21.18	3184	23.36

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.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK562

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM042724

SAS No.: BM042724 SDG NO.: BM042724

Lab File ID: BM045608.D

Lab Sample ID: PB160562BL

Instrument ID: BNA_M

Date Extracted: 04/26/2024

Matrix: (soil/water) Water

Date Analyzed: 04/27/2024

Level: (low/med) LOW

Time Analyzed: 12:18

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

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

COMMENTS:

Surrogate Summary

SW-846

SDG No.: **BM042724**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P2203-09DL	E1CW8DL	BM045609.D	1,4-Dioxane-d8	8	7.29	91		15	120
			Fluoranthene-d10	0.4	0.54	135	*	30	130
			2-Methylnaphthalene-d10	0.4	0.58	145	*	20	140
P2203-17DL	E1CW9DL	BM045610.D	1,4-Dioxane-d8	8	5.45	68		15	120
			Fluoranthene-d10	0.4	0.29	72		30	130
			2-Methylnaphthalene-d10	0.4	0.34	84		20	140
P2203-18DL	E1CX0DL	BM045611.D	1,4-Dioxane-d8	8	5.45	68		15	120
			Fluoranthene-d10	0.4	0.29	72		30	130
			2-Methylnaphthalene-d10	0.4	0.36	89		20	140
P2203-19DL	E1CY7DL	BM045612.D	1,4-Dioxane-d8	8	4.92	62		15	120
			Fluoranthene-d10	0.4	0.28	70		30	130
			2-Methylnaphthalene-d10	0.4	0.33	81		20	140
P2203-20DL	E1CX4DL	BM045613.D	1,4-Dioxane-d8	8	5.56	69		15	120
			Fluoranthene-d10	0.4	0.33	81		30	130
			2-Methylnaphthalene-d10	0.4	0.36	90		20	140



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Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: BM042724

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
PB160562BL	PB160562BL	BM045608.D	1,4-Dioxane-d8	8	5.98	75		15	120
			Fluoranthene-d10	0.4	0.31	78		30	130
			2-Methylnaphthalene-d10	0.4	0.34	86		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM042724

Lab Code: CHEM

SAS No.: BM042724

SDG NO.: BM042724

Lab File ID: BM045606.D

DFTPP Injection Date: 04/27/2024

Instrument ID: BNA_M

DFTPP Injection Time: 11:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.6
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	63.6
70	Less than 2.0% of mass 69	0.5 (0.7) 1
127	10.0 - 80.0% of mass 198	63.7
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	5.5
441	Present, but less than mass 443	10.8
442	Greater than 50% of mass 198	68.5
443	15.0 - 24.0% of mass 442	13.3 (19.4) 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
SSTD0.4099	SSTDCCC0.4	BM045607.D	04/27/2024	11:42
SBLK562	PB160562BL	BM045608.D	04/27/2024	12:18
E1CW8DL	P2203-09DL	BM045609.D	04/27/2024	12:54
E1CW9DL	P2203-17DL	BM045610.D	04/27/2024	13:31
E1CX0DL	P2203-18DL	BM045611.D	04/27/2024	14:07
E1CY7DL	P2203-19DL	BM045612.D	04/27/2024	14:43
E1CX4DL	P2203-20DL	BM045613.D	04/27/2024	15:20
SSTD0.4100	SSTDCCC0.4EC	BM045614.D	04/27/2024	16:33