

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM123024 SAS No.: BM123024 SDG No.: BM123024

Instrument ID: BNA_M Calibration Date/Time: 12/30/2024 : 10:22

Lab File ID: BM049295.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4135 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.539	0.507	0.010	-5.9904	40.0
1,4-Dioxane-d8	0.461	0.446	0.010	-3.3807	40.0
Naphthalene	1.001	0.999	0.600	-0.1882	30.0
1-Methylnaphthalene	0.650	0.635	0.300	-2.3021	30.0
2-Methylnaphthalene	0.634	0.605	0.300	-4.6424	30.0
Acenaphthylene	1.658	1.562	0.900	-5.7561	30.0
Acenaphthene	1.210	1.176	0.500	-2.8305	30.0
Fluorene	1.365	1.289	0.700	-5.5898	30.0
Pentachlorophenol	0.111	0.075	0.010	-32.2005	50.0
Phenanthrene	1.045	0.957	0.300	-8.36	30.0
Anthracene	0.959	0.876	0.400	-8.6603	30.0
Fluoranthene	1.446	1.464	0.400	1.2583	30.0
Pyrene	1.542	1.539	0.500	-0.2416	30.0
Benzo (a) anthracene	1.391	1.197	0.400	-13.9466	30.0
Chrysene	1.493	1.506	0.400	0.8645	30.0
Benzo (b) fluoranthene	1.278	1.186	0.200	-7.1959	30.0
Benzo (k) fluoranthene	1.402	1.355	0.200	-3.3554	30.0
Benzo (a) pyrene	1.226	1.156	0.200	-5.6329	30.0
Indeno (1,2,3-cd) pyrene	1.734	1.438	0.200	-17.0764	30.0
Dibenzo (a,h) anthracene	1.348	1.009	0.200	-25.1331	30.0
Benzo (g,h,i) perylene	1.395	1.297	0.200	-7.0358	30.0
Fluoranthene-d10	1.135	1.168	0.400	2.9453	30.0
2-Methylnaphthalene-d10	0.538	0.532	0.300	-1.0212	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.: BM123024 SAS No.: BM123024 SDG No.: BM123024
Instrument ID: BNA_M Calibration Date/Time: 12/30/2024 : 14:23
Lab File ID: BM049300.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4136 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.539	0.529	0.010	-1.969	50.0
1,4-Dioxane-d8	0.461	0.458	0.010	-0.8102	50.0
Naphthalene	1.001	0.973	0.600	-2.857	50.0
1-Methylnaphthalene	0.650	0.633	0.300	-2.525	50.0
2-Methylnaphthalene	0.634	0.611	0.300	-3.648	50.0
Acenaphthylene	1.658	1.596	0.900	-3.7119	50.0
Acenaphthene	1.210	1.130	0.500	-6.5828	50.0
Fluorene	1.365	1.295	0.700	-5.1645	50.0
Pentachlorophenol	0.111	0.094	0.010	-15.1355	50.0
Phenanthrene	1.045	1.007	0.300	-3.6203	50.0
Anthracene	0.959	0.903	0.400	-5.8668	50.0
Fluoranthene	1.446	1.494	0.400	3.328	50.0
Pyrene	1.542	1.548	0.500	0.3852	50.0
Benzo (a) anthracene	1.391	1.218	0.400	-12.4975	50.0
Chrysene	1.493	1.453	0.400	-2.6849	50.0
Benzo (b) fluoranthene	1.278	1.223	0.200	-4.276	50.0
Benzo (k) fluoranthene	1.402	1.340	0.200	-4.4251	50.0
Benzo (a) pyrene	1.226	1.020	0.200	-16.7545	50.0
Indeno (1,2,3-cd) pyrene	1.734	1.465	0.200	-15.5624	50.0
Dibenzo (a,h) anthracene	1.348	1.066	0.200	-20.9177	50.0
Benzo (g,h,i) perylene	1.395	1.294	0.200	-7.2598	50.0
Fluoranthene-d10	1.135	1.225	0.400	7.9185	50.0
2-Methylnaphthalene-d10	0.538	0.569	0.300	5.7879	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	12/26/2024 12:00:00 AM
Project:		Date Received:	12/26/2024 12:00:00 AM
Client Sample ID:	SBLK848	SDG No.:	BM123024
Lab Sample ID:	PB165848BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
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
BM049296.D	1	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.89	U	0.89	0	6.7	ug/Kg
91-20-3	Naphthalene	0.2	U	0.2	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.52	U	0.52	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.33	U	0.33	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.18	U	0.18	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.22	U	0.22	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	2	U	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.18	U	0.18	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.17	U	0.17	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.18	U	0.18	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.24	U	0.24	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.09	U	0.09	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.25	U	0.25	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.47	U	0.47	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.32	U	0.32	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.32	U	0.32	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.47	U	0.47	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.75	U	0.75	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.555		15-120		69	SPK: -8
93951-69-0	Fluoranthene-d10	0.313		30-130		78	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.298		20-140		75	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4063	7.539				
1146-65-2	Naphthalene-d8	12064	10.299				
15067-26-2	Acenaphthene-d10	6670	14.178				

Report of Analysis

Client:		Date Collected:	12/26/2024 12:00:00 AM
Project:		Date Received:	12/26/2024 12:00:00 AM
Client Sample ID:	SBLK848	SDG No.:	BM123024
Lab Sample ID:	PB165848BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
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
BM049296.D	1	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	15577	16.926				
1719-03-5	Chrysene-d12	12019	21.14				
1520-96-3	Perylene-d12	11579	23.285				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/17/2024 12:00:00 AM
Project:		Date Received:	12/17/2024 12:00:00 AM
Client Sample ID:	E2922DL	SDG No.:	BM123024
Lab Sample ID:	P5351-01DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	18.6
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
BM049297.D	5	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.4	U	5.4	0	41	ug/Kg
91-20-3	Naphthalene	1.2	U	1.2	5.1	20	ug/Kg
90-12-0	1-Methylnaphthalene	3.2	U	3.2	5.1	20	ug/Kg
91-57-6	2-Methylnaphthalene	1.2	U	1.2	5.1	20	ug/Kg
208-96-8	Acenaphthylene	2	U	2	5.1	20	ug/Kg
83-32-9	Acenaphthene	1.1	U	1.1	5.1	20	ug/Kg
86-73-7	Fluorene	5.5	JD	1.3	5.1	20	ug/Kg
87-86-5	Pentachlorophenol	12	U	12	10.3	41	ug/Kg
85-01-8	Phenanthrene	88	D	1.1	5.1	20	ug/Kg
120-12-7	Anthracene	33	D	1	5.1	20	ug/Kg
206-44-0	Fluoranthene	170	D	1.1	5.1	20	ug/Kg
129-00-0	Pyrene	130	D	1.5	5.1	20	ug/Kg
56-55-3	Benzo(a)anthracene	73	D	0.57	5.1	20	ug/Kg
218-01-9	Chrysene	68	D	1.5	5.1	20	ug/Kg
205-99-2	Benzo(b)fluoranthene	85	D	2.9	5.1	20	ug/Kg
207-08-9	Benzo(k)fluoranthene	33	D	2	5.1	20	ug/Kg
50-32-8	Benzo(a)pyrene	61	D	2	5.1	20	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31	D	3.2	5.1	20	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	10	JD	2.9	5.1	20	ug/Kg
191-24-2	Benzo(g,h,i)perylene	38	D	4.6	5.1	20	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.845		15-120		36	SPK: -8
93951-69-0	Fluoranthene-d10	0.18		30-130		45	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.175		20-140		44	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5752		7.539			
1146-65-2	Naphthalene-d8	16635		10.303			
15067-26-2	Acenaphthene-d10	9507		14.177			

Report of Analysis

Client:		Date Collected:	12/17/2024 12:00:00 AM
Project:		Date Received:	12/17/2024 12:00:00 AM
Client Sample ID:	E2922DL	SDG No.:	BM123024
Lab Sample ID:	P5351-01DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	18.6
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
BM049297.D	5	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20108	16.929				
1719-03-5	Chrysene-d12	16723	21.135				
1520-96-3	Perylene-d12	16998	23.288				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	5.4	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/17/2024 12:00:00 AM
Project:		Date Received:	12/17/2024 12:00:00 AM
Client Sample ID:	E2925DL	SDG No.:	BM123024
Lab Sample ID:	P5351-03DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	20.4
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
BM049298.D	5	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.6	U	5.6	0	42	ug/Kg
91-20-3	Naphthalene	1.3	U	1.3	5.2	21	ug/Kg
90-12-0	1-Methylnaphthalene	3.3	U	3.3	5.2	21	ug/Kg
91-57-6	2-Methylnaphthalene	1.2	U	1.2	5.2	21	ug/Kg
208-96-8	Acenaphthylene	2.1	U	2.1	5.2	21	ug/Kg
83-32-9	Acenaphthene	5.4	JD	1.1	5.2	21	ug/Kg
86-73-7	Fluorene	5.9	JD	1.4	5.2	21	ug/Kg
87-86-5	Pentachlorophenol	13	U	13	10.5	42	ug/Kg
85-01-8	Phenanthrene	66	D	1.1	5.2	21	ug/Kg
120-12-7	Anthracene	19	JD	1.1	5.2	21	ug/Kg
206-44-0	Fluoranthene	97	D	1.1	5.2	21	ug/Kg
129-00-0	Pyrene	79	D	1.5	5.2	21	ug/Kg
56-55-3	Benzo(a)anthracene	43	D	0.58	5.2	21	ug/Kg
218-01-9	Chrysene	37	D	1.6	5.2	21	ug/Kg
205-99-2	Benzo(b)fluoranthene	53	D	3	5.2	21	ug/Kg
207-08-9	Benzo(k)fluoranthene	21	D	2	5.2	21	ug/Kg
50-32-8	Benzo(a)pyrene	37	D	2	5.2	21	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	20	JD	3.3	5.2	21	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	6.1	JD	3	5.2	21	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27	D	4.7	5.2	21	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.91		15-120		36	SPK: -8
93951-69-0	Fluoranthene-d10	0.16		30-130		40	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.17		20-140		43	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5350	7.539				
1146-65-2	Naphthalene-d8	16123	10.303				
15067-26-2	Acenaphthene-d10	9374	14.177				

Report of Analysis

Client:		Date Collected:	12/17/2024 12:00:00 AM
Project:		Date Received:	12/17/2024 12:00:00 AM
Client Sample ID:	E2925DL	SDG No.:	BM123024
Lab Sample ID:	P5351-03DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	20.4
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
BM049298.D	5	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20450	16.929				
1719-03-5	Chrysene-d12	17360	21.137				
1520-96-3	Perylene-d12	17848	23.288				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	5.6	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/17/2024 12:00:00 AM
Project:		Date Received:	12/17/2024 12:00:00 AM
Client Sample ID:	E2926DL	SDG No.:	BM123024
Lab Sample ID:	P5351-04DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	18
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
			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
BM049299.D	5	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.4	U	5.4	0	41	ug/Kg
91-20-3	Naphthalene	1.2	U	1.2	5	20	ug/Kg
90-12-0	1-Methylnaphthalene	3.2	U	3.2	5	20	ug/Kg
91-57-6	2-Methylnaphthalene	1.2	U	1.2	5	20	ug/Kg
208-96-8	Acenaphthylene	2	U	2	5	20	ug/Kg
83-32-9	Acenaphthene	1.1	U	1.1	5	20	ug/Kg
86-73-7	Fluorene	1.3	U	1.3	5	20	ug/Kg
87-86-5	Pentachlorophenol	12	U	12	10.2	41	ug/Kg
85-01-8	Phenanthrene	39	D	1.1	5	20	ug/Kg
120-12-7	Anthracene	10	JD	1	5	20	ug/Kg
206-44-0	Fluoranthene	65	D	1.1	5	20	ug/Kg
129-00-0	Pyrene	55	D	1.5	5	20	ug/Kg
56-55-3	Benzo(a)anthracene	29	D	0.57	5	20	ug/Kg
218-01-9	Chrysene	24	D	1.5	5	20	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	D	2.9	5	20	ug/Kg
207-08-9	Benzo(k)fluoranthene	15	JD	1.9	5	20	ug/Kg
50-32-8	Benzo(a)pyrene	26	D	1.9	5	20	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	14	JD	3.2	5	20	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	4.1	JD	2.9	5	20	ug/Kg
191-24-2	Benzo(g,h,i)perylene	19	JD	4.6	5	20	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.355		15-120		42	SPK: -8
93951-69-0	Fluoranthene-d10	0.185		30-130		46	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.185		20-140		46	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5515		7.539			
1146-65-2	Naphthalene-d8	16090		10.304			
15067-26-2	Acenaphthene-d10	9330		14.178			

Report of Analysis

Client:		Date Collected:	12/17/2024 12:00:00 AM
Project:		Date Received:	12/17/2024 12:00:00 AM
Client Sample ID:	E2926DL	SDG No.:	BM123024
Lab Sample ID:	P5351-04DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	18
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
BM049299.D	5	12/26/2024 12:00:00 AM	12/30/2024 12:00:00 AM	PB165854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19898	16.93				
1719-03-5	Chrysene-d12	16771	21.137				
1520-96-3	Perylene-d12	17223	23.288				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	5.4	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM123024

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : E2922DL								
P5351-01DL	E2922DL	Solid	Total Alkanes	*	0.000	D 5.4	41	ug/Kg
			Total Tics :			0.00		
P5351-01DL	E2922DL	Solid	Anthracene		33.000	D 1	20	ug/Kg
P5351-01DL	E2922DL	Solid	Benzo(a)anthracene		73.000	D 0.57	20	ug/Kg
P5351-01DL	E2922DL	Solid	Benzo(a)pyrene		61.000	D 2	20	ug/Kg
P5351-01DL	E2922DL	Solid	Benzo(b)fluoranthene		85.000	D 2.9	20	ug/Kg
P5351-01DL	E2922DL	Solid	Benzo(g,h,i)perylene		38.000	D 4.6	20	ug/Kg
P5351-01DL	E2922DL	Solid	Benzo(k)fluoranthene		33.000	D 2	20	ug/Kg
P5351-01DL	E2922DL	Solid	Chrysene		68.000	D 1.5	20	ug/Kg
P5351-01DL	E2922DL	Solid	Dibenzo(a,h)anthracene		10.000	JD 2.9	20	ug/Kg
P5351-01DL	E2922DL	Solid	Fluoranthene		170.000	D 1.1	20	ug/Kg
P5351-01DL	E2922DL	Solid	Fluorene		5.500	JD 1.3	20	ug/Kg
P5351-01DL	E2922DL	Solid	Indeno(1,2,3-cd)pyrene		31.000	D 3.2	20	ug/Kg
P5351-01DL	E2922DL	Solid	Phenanthrene		88.000	D 1.1	20	ug/Kg
P5351-01DL	E2922DL	Solid	Pyrene		130.000	D 1.5	20	ug/Kg
			Total Svoc :			825.50		
			Total Concentration:			825.50		
Client ID : E2925DL								
P5351-03DL	E2925DL	Solid	Total Alkanes	*	0.000	D 5.6	42	ug/Kg
			Total Tics :			0.00		
P5351-03DL	E2925DL	Solid	Acenaphthene		5.400	JD 1.1	21	ug/Kg
P5351-03DL	E2925DL	Solid	Anthracene		19.000	JD 1.1	21	ug/Kg
P5351-03DL	E2925DL	Solid	Benzo(a)anthracene		43.000	D 0.58	21	ug/Kg
P5351-03DL	E2925DL	Solid	Benzo(a)pyrene		37.000	D 2	21	ug/Kg
P5351-03DL	E2925DL	Solid	Benzo(b)fluoranthene		53.000	D 3	21	ug/Kg
P5351-03DL	E2925DL	Solid	Benzo(g,h,i)perylene		27.000	D 4.7	21	ug/Kg
P5351-03DL	E2925DL	Solid	Benzo(k)fluoranthene		21.000	D 2	21	ug/Kg
P5351-03DL	E2925DL	Solid	Chrysene		37.000	D 1.6	21	ug/Kg
P5351-03DL	E2925DL	Solid	Dibenzo(a,h)anthracene		6.100	JD 3	21	ug/Kg
P5351-03DL	E2925DL	Solid	Fluoranthene		97.000	D 1.1	21	ug/Kg
P5351-03DL	E2925DL	Solid	Fluorene		5.900	JD 1.4	21	ug/Kg
P5351-03DL	E2925DL	Solid	Indeno(1,2,3-cd)pyrene		20.000	JD 3.3	21	ug/Kg
P5351-03DL	E2925DL	Solid	Phenanthrene		66.000	D 1.1	21	ug/Kg
P5351-03DL	E2925DL	Solid	Pyrene		79.000	D 1.5	21	ug/Kg
			Total Svoc :			516.40		
			Total Concentration:			516.40		
Client ID : E2926DL								

Hit Summary Sheet SW-846

SDG No.: BM123024

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5351-04DL	E2926DL	Solid	Total Alkanes	*	0.000	D 5.4	41	ug/Kg
			Total Tics :			0.00		
P5351-04DL	E2926DL	Solid	Anthracene	10.000	JD	1	20	ug/Kg
P5351-04DL	E2926DL	Solid	Benzo(a)anthracene	29.000	D	0.57	20	ug/Kg
P5351-04DL	E2926DL	Solid	Benzo(a)pyrene	26.000	D	1.9	20	ug/Kg
P5351-04DL	E2926DL	Solid	Benzo(b)fluoranthene	38.000	D	2.9	20	ug/Kg
P5351-04DL	E2926DL	Solid	Benzo(g,h,i)perylene	19.000	JD	4.6	20	ug/Kg
P5351-04DL	E2926DL	Solid	Benzo(k)fluoranthene	15.000	JD	1.9	20	ug/Kg
P5351-04DL	E2926DL	Solid	Chrysene	24.000	D	1.5	20	ug/Kg
P5351-04DL	E2926DL	Solid	Dibenzo(a,h)anthracene	4.100	JD	2.9	20	ug/Kg
P5351-04DL	E2926DL	Solid	Fluoranthene	65.000	D	1.1	20	ug/Kg
P5351-04DL	E2926DL	Solid	Indeno(1,2,3-cd)pyrene	14.000	JD	3.2	20	ug/Kg
P5351-04DL	E2926DL	Solid	Phenanthrene	39.000	D	1.1	20	ug/Kg
P5351-04DL	E2926DL	Solid	Pyrene	55.000	D	1.5	20	ug/Kg
			Total Svoc :			338.10		
			Total Concentration:			338.10		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM121824 SAS No.: BM121824 SDG No.: BM121824
Instrument ID: _____ Calibration Date(s): 12/18/2024
Calibration Time(s): 11:59

LAB FILE ID:		RRFAL1 = BM049044.D			RRFAL2 = BM049045.D		RRFAL3 = BM049046.D	
		RRFAL4 = BM049047.D			RRFAL5 = BM049048.D		RRFAL6 = BM049049.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.585	0.657	0.500	0.488	0.467	0.539	14.8
1,4-Dioxane-d8		0.482	0.532	0.442	0.431	0.420	0.461	10.0
Naphthalene	0.982	0.990	1.138	0.960	0.936		1.001	7.9
1-Methylnaphthalene	0.651	0.634	0.734	0.616	0.613		0.650	7.6
2-Methylnaphthalene	0.619	0.621	0.724	0.606	0.602		0.634	8.0
Acenaphthylene	1.642	1.610	1.886	1.587	1.565		1.658	7.9
Acenaphthene	1.195	1.174	1.371	1.162	1.149		1.210	7.6
Fluorene	1.348	1.317	1.541	1.311	1.309		1.365	7.3
Pentachlorophenol		0.093	0.119	0.104	0.115	0.123	0.111	10.9
Phenanthrene	1.044	1.028	1.144	1.013	0.994		1.045	5.6
Anthracene	0.943	0.927	1.060	0.936	0.929		0.959	5.9
Fluoranthene	1.426	1.394	1.614	1.401	1.395		1.446	6.6
Pyrene	1.548	1.498	1.715	1.484	1.467		1.542	6.6
Benzo(a)anthracene	1.377	1.350	1.544	1.336	1.349		1.391	6.2
Chrysene	1.526	1.502	1.686	1.399	1.353		1.493	8.7
Benzo(b)fluoranthene	1.251	1.234	1.434	1.232	1.239		1.278	6.8
Benzo(k)fluoranthene	1.410	1.388	1.575	1.344	1.294		1.402	7.6
Benzo(a)pyrene	1.196	1.199	1.387	1.184	1.161		1.226	7.5
Indeno(1,2,3-cd)pyrene	1.733	1.687	1.935	1.679	1.638		1.734	6.8
Dibenzo(a,h)anthracene	1.317	1.326	1.511	1.312	1.273		1.348	6.9
Benzo(g,h,i)perylene	1.406	1.367	1.562	1.343	1.296		1.395	7.3
Fluoranthene-d10	1.129	1.103	1.260	1.094	1.089		1.135	6.3
2-Methylnaphthalene-d10	0.518	0.533	0.613	0.515	0.508		0.538	8.1

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.: BM123024 SAS No.: BM123024 SDG NO.: BM123024

EPA Sample No.: SSTD0.4015 Date Analyzed: Dec 30 2024 12:00AM

Lab File ID: BM049046.D Time Analyzed: 10:58

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	4849	7.569	14312	10.33	8144	14.20
UPPER LIMIT	9698	8.069	28624	10.83	16288	14.7
LOWER LIMIT	2424.5	7.069	7156	9.83	4072	13.7
EPA SAMPLE NO.						
01 SBLK848	4063	7.54	12064	10.30	6670	14.18
02 E2922DL	5752	7.54	16635	10.30	9507	14.18
03 E2925DL	5350	7.54	16123	10.30	9374	14.18
04 E2926DL	5515	7.54	16090	10.30	9330	14.18

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.: BM123024 SAS No.: BM123024 SDG NO.: BM123024

EPA Sample No.: SSTD0.4135 Date Analyzed: Dec 30 2024 12:00AM

Lab File ID: BM049295.D Time Analyzed: 10:58

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	5214	7.543	15396	10.30	8668	14.18
UPPER LIMIT	10428	8.043	30792	10.804	17336	14.678
LOWER LIMIT	2607	7.043	7698	9.804	4334	13.678
EPA SAMPLE NO.						
01 SBLK848	4063	7.54	12064	10.30	6670	14.18
02 E2922DL	5752	7.54	16635	10.30	9507	14.18
03 E2925DL	5350	7.54	16123	10.30	9374	14.18
04 E2926DL	5515	7.54	16090	10.30	9330	14.18

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.: BM123024 SAS No.: BM123024 SDG NO.: BM123024

EPA Sample No.: SSTD0.4015 Date Analyzed: Dec 30 2024 12:00AM

Lab File ID: BM049046.D Time Analyzed: 10:58

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	17209	16.95	14990	21.14	17133	23.306
UPPER LIMIT	34418	17.45	29980	21.64	34266	23.806
LOWER LIMIT	8604.5	16.45	7495	20.64	8566.5	22.806
EPA SAMPLE NO.						
01 SBLK848	15577	16.93	12019	21.14	11579	23.29
02 E2922DL	20108	16.93	16723	21.14	16998	23.29
03 E2925DL	20450	16.93	17360	21.14	17848	23.29
04 E2926DL	19898	16.93	16771	21.14	17223	23.29

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.: BM123024 SAS No.: BM123024 SDG NO.: BM123024

EPA Sample No.: SSTD0.4135 Date Analyzed: Dec 30 2024 12:00AM

Lab File ID: BM049295.D Time Analyzed: 10:58

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	17766	16.934	14275	21.137	16309	23.291
UPPER LIMIT	35532	17.434	28550	21.637	32618	23.791
LOWER LIMIT	8883	16.434	7137.5	20.637	8154.5	22.791
EPA SAMPLE NO.						
01 SBLK848	15577	16.93	12019	21.14	11579	23.29
02 E2922DL	20108	16.93	16723	21.14	16998	23.29
03 E2925DL	20450	16.93	17360	21.14	17848	23.29
04 E2926DL	19898	16.93	16771	21.14	17223	23.29

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.

SBLK848

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM123024

SAS No.: BM123024 SDG NO.: BM123024

Lab File ID: BM049296.D

Lab Sample ID: PB165848BL

Instrument ID: BNA_M

Date Extracted: 12/26/2024

Matrix: (soil/water) Solid

Date Analyzed: 12/30/2024

Level: (low/med) LOW

Time Analyzed: 10:58

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.: BM123024

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB165848BL	PB165848BL	BM049296.D	1,4-Dioxane-d8	8	5.56	69		15	120
			Fluoranthene-d10	0.4	0.31	78		30	130
			2-Methylnaphthalene-d10	0.4	0.30	75		20	140

Surrogate Summary

SW-846

SDG No.: BM123024

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P5351-01DL	E2922DL	BM049297.D	1,4-Dioxane-d8	8	2.85	36		15	120
			Fluoranthene-d10	0.4	0.18	45		30	130
			2-Methylnaphthalene-d10	0.4	0.18	44		20	140
P5351-03DL	E2925DL	BM049298.D	1,4-Dioxane-d8	8	2.91	36		15	120
			Fluoranthene-d10	0.4	0.16	40		30	130
			2-Methylnaphthalene-d10	0.4	0.17	43		20	140
P5351-04DL	E2926DL	BM049299.D	1,4-Dioxane-d8	8	3.36	42		15	120
			Fluoranthene-d10	0.4	0.19	46		30	130
			2-Methylnaphthalene-d10	0.4	0.19	46		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM123024

Lab Code: CHEM

SAS No.: BM123024 SDG NO.: BM123024

Lab File ID: BM049294.D

DFTPP Injection Date: 12/30/2024

Instrument ID: BNA_M

DFTPP Injection Time: 09:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.2
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.6
197	Less than 2.0% of mass 198	0.2
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	25.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12.3
442	Greater than 50% of mass 198	76.7
443	15.0 - 24.0% of mass 442	14.8 (19.3) 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
SSTD0.4135	SSTDCCC0.4	BM049295.D	12/30/2024	10:22
SBLK848	PB165848BL	BM049296.D	12/30/2024	10:58
E2922DL	P5351-01DL	BM049297.D	12/30/2024	11:34
E2925DL	P5351-03DL	BM049298.D	12/30/2024	12:10
E2926DL	P5351-04DL	BM049299.D	12/30/2024	12:46
SSTD0.4136	SSTDCCC0.4EC	BM049300.D	12/30/2024	14:23