

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN081024 SAS No.: BN081024 SDG No.: BN081024

Instrument ID: BNA_N Calibration Date/Time: 8/10/2024 1:14:53

Lab File ID: BN033336.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDICCC0.4 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.616	0.592		-3.896	20.0
Fluoranthene-d10	1.069	1.015		-5.051	20.0
n-Nitrosodimethylamine	0.572	0.559		-2.273	20.0
2-Fluorophenol	1.105	1.125		1.81	20.0
Phenol-d6	1.492	1.513		1.408	20.0
bis(2-Chloroethyl) ether	1.209	1.187		-1.82	20.0
Nitrobenzene-d5	0.302	0.294		-2.649	20.0
Naphthalene	1.103	1.072		-2.811	20.0
Hexachlorobutadiene	0.210	0.208		-0.952	20.0
2-Methylnaphthalene	0.745	0.715		-4.027	20.0
2-Fluorobiphenyl	1.640	1.632		-0.488	20.0
Acenaphthylene	1.867	1.739		-6.856	20.0
Acenaphthene	1.281	1.218		-4.918	20.0
Fluorene	1.689	1.615		-4.381	20.0
4,6-Dinitro-2-methylphenol	0.049	0.042		-14.286	20.0
2,4,6-Tribromophenol	0.205	0.191		-6.829	20.0
4-Bromophenyl-phenylether	0.239	0.228		-4.603	20.0
Hexachlorobenzene	0.268	0.262		-2.239	20.0
Atrazine	0.190	0.173		-8.947	20.0
Pentachlorophenol	0.108	0.092		-14.815	20.0
Phenanthrene	1.155	1.110		-3.896	20.0
Anthracene	1.023	0.958		-6.354	20.0
Fluoranthene	1.422	1.341		-5.696	20.0
Pyrene	1.592	1.572		-1.256	20.0
Terphenyl-d14	0.756	0.756		0.0	20.0
Benzo(a)anthracene	1.494	1.387		-7.162	20.0
Chrysene	1.504	1.497		-0.465	20.0
Bis(2-ethylhexyl)phthalate	0.679	0.588		-13.402	20.0
Benzo(b)fluoranthene	1.505	1.420		-5.648	20.0
Benzo(k)fluoranthene	1.537	1.487		-3.253	20.0
Benzo(a)pyrene	1.268	1.155		-8.912	20.0
Indeno(1,2,3-cd)pyrene	1.653	1.499		-9.316	20.0
Dibenzo(a,h)anthracene	1.305	1.179		-9.655	20.0
Benzo(g,h,i)perylene	1.448	1.329		-8.218	20.0
1,4-Dioxane	0.444	0.426		-4.054	20.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBN081024	SDG No.:	BN081024
Lab Sample ID:	SSTDICV0.4	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000000 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
BN033341.D	1		8/10/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	430		30	200	200	ug/L
111-44-4	bis(2-Chloroethyl)ether	450		28	100	100	ug/L
91-20-3	Naphthalene	430		24	100	100	ug/L
87-68-3	Hexachlorobutadiene	420		26	100	100	ug/L
91-57-6	2-Methylnaphthalene	440		30	100	100	ug/L
208-96-8	Acenaphthylene	440		21	100	100	ug/L
83-32-9	Acenaphthene	430		20	100	100	ug/L
Total PAH	Total PAH	6940		456	100	1600	ug/L
86-73-7	Fluorene	420		18	100	100	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	380		140	200	200	ug/L
101-55-3	4-Bromophenyl-phenylether	420		26	100	100	ug/L
118-74-1	Hexachlorobenzene	440		29	100	100	ug/L
1912-24-9	Atrazine	380		23	100	100	ug/L
87-86-5	Pentachlorophenol	330		90	200	200	ug/L
85-01-8	Phenanthrene	450		20	100	100	ug/L
120-12-7	Anthracene	440		24	100	100	ug/L
206-44-0	Fluoranthene	420		23	100	100	ug/L
129-00-0	Pyrene	430		22	100	100	ug/L
56-55-3	Benzo(a)anthracene	430		22	100	100	ug/L
218-01-9	Chrysene	460		26	100	100	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	360		140	200	200	ug/L
205-99-2	Benzo(b)fluoranthene	430		32	100	100	ug/L
207-08-9	Benzo(k)fluoranthene	460		34	100	100	ug/L
50-32-8	Benzo(a)pyrene	450		56	100	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	430		38	100	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	430		39	100	100	ug/L
191-24-2	Benzo(g,h,i)perylene	390		37	100	100	ug/L
123-91-1	1,4-Dioxane	460		68	200	200	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBN081024			SDG No.:	BN081024		
Lab Sample ID:	SSTDICV0.4			Matrix:	Water		
Analytical Method:	8270-Modified			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	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
BN033341.D	1		8/10/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	413	*	30-150		103250	SPK: -0.4
93951-69-0	Fluoranthene-d10	400	*	30-150		100000	SPK: -0.4
367-12-4	2-Fluorophenol	337	*	10-92		84250	SPK: -0.4
13127-88-3	Phenol-d6	329	*	10-100		82250	SPK: -0.4
4165-60-0	Nitrobenzene-d5	420	*	11-175		105000	SPK: -0.4
321-60-8	2-Fluorobiphenyl	443	*	10-175		110750	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	324	*	24-148		81000	SPK: -0.4
1718-51-0	Terphenyl-d14	462	*	54-171		115500	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4684	7.58				
1146-65-2	Naphthalene-d8	13757	10.338				
15067-26-2	Acenaphthene-d10	8186	14.212				
1517-22-2	Phenanthrene-d10	19726	16.958				
1719-03-5	Chrysene-d12	17644	21.166				
1520-96-3	Perylene-d12	17318	23.346				

Report of Analysis

Client:		Date Collected:	8/9/2024 12:00:00 AM
Project:		Date Received:	8/9/2024 12:00:00 AM
Client Sample ID:	PB162604BL	SDG No.:	BN081024
Lab Sample ID:	PB162604BL	Matrix:	Solid
Analytical Method:	8270-Modified	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	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
BN033342.D	1	8/9/2024 12:00:00 AM	8/10/2024 12:00:00 AM	PB162604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1.3	U	1.3	6.6	6.6	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	0.85	U	0.85	3.3	3.3	ug/Kg
91-20-3	Naphthalene	0.69	U	0.69	3.3	3.3	ug/Kg
87-68-3	Hexachlorobutadiene	0.69	U	0.69	3.3	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.8	U	0.8	3.3	3.3	ug/Kg
208-96-8	Acenaphthylene	0.63	U	0.63	3.3	3.3	ug/Kg
83-32-9	Acenaphthene	0.55	U	0.55	3.3	3.3	ug/Kg
Total PAH	Total PAH	14.61	U	14.61	3.3	52.8	ug/Kg
86-73-7	Fluorene	0.6	U	0.6	3.3	3.3	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	4.2	U	4.2	6.6	6.6	ug/Kg
101-55-3	4-Bromophenyl-phenylether	0.79	U	0.79	3.3	3.3	ug/Kg
118-74-1	Hexachlorobenzene	0.85	U	0.85	3.3	3.3	ug/Kg
1912-24-9	Atrazine	0.76	U	0.76	3.3	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.8	U	2.8	6.6	6.6	ug/Kg
85-01-8	Phenanthrene	0.63	U	0.63	3.3	3.3	ug/Kg
120-12-7	Anthracene	0.79	U	0.79	3.3	3.3	ug/Kg
206-44-0	Fluoranthene	0.67	U	0.67	3.3	3.3	ug/Kg
129-00-0	Pyrene	0.95	U	0.95	3.3	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.76	U	0.76	3.3	3.3	ug/Kg
218-01-9	Chrysene	0.86	U	0.86	3.3	3.3	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1.5	U	1.5	6.6	6.6	ug/Kg
205-99-2	Benzo(b)fluoranthene	1.2	U	1.2	3.3	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.98	U	0.98	3.3	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	1.7	U	1.7	3.3	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U	1.3	3.3	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.2	U	1.2	3.3	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.1	U	1.1	3.3	3.3	ug/Kg
123-91-1	1,4-Dioxane	2.2	U	2.2	6.6	6.6	ug/Kg

Report of Analysis

Client:		Date Collected:	8/9/2024 12:00:00 AM
Project:		Date Received:	8/9/2024 12:00:00 AM
Client Sample ID:	PB162604BL	SDG No.:	BN081024
Lab Sample ID:	PB162604BL	Matrix:	Solid
Analytical Method:	8270-Modified	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	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
BN033342.D	1	8/9/2024 12:00:00 AM	8/10/2024 12:00:00 AM	PB162604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.361		21-128		90	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.386		13-127		97	SPK: -0.4
367-12-4	2-Fluorophenol	0.35		28-122		88	SPK: -0.4
13127-88-3	Phenol-d6	0.341		12-126		85	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.376		14-112		94	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.413		22-114		103	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.179		10-137		45	SPK: -0.4
1718-51-0	Terphenyl-d14	0.445		21-130		111	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4855	7.58				
1146-65-2	Naphthalene-d8	13300	10.338				
15067-26-2	Acenaphthene-d10	6827	14.212				
1517-22-2	Phenanthrene-d10	18252	16.958				
1719-03-5	Chrysene-d12	14575	21.165				
1520-96-3	Perylene-d12	14328	23.349				

Hit Summary Sheet SW-846

SDG No.: BN081024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBN081024								
SSTDICV0.4	ICVBN081024	Water	1,4-Dioxane	460.000	68		200	ug/L
SSTDICV0.4	ICVBN081024	Water	2-Methylnaphthalene	440.000	30		100	ug/L
SSTDICV0.4	ICVBN081024	Water	4,6-Dinitro-2-methylphenol	380.000	140		200	ug/L
SSTDICV0.4	ICVBN081024	Water	4-Bromophenyl-phenylether	420.000	26		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Acenaphthene	430.000	20		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Acenaphthylene	440.000	21		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Anthracene	440.000	24		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Atrazine	380.000	23		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Benzo(a)anthracene	430.000	22		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Benzo(a)pyrene	450.000	56		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Benzo(b)fluoranthene	430.000	32		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Benzo(g,h,i)perylene	390.000	37		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Benzo(k)fluoranthene	460.000	34		100	ug/L
SSTDICV0.4	ICVBN081024	Water	bis(2-Chloroethyl)ether	450.000	28		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Bis(2-ethylhexyl)phthalate	360.000	140		200	ug/L
SSTDICV0.4	ICVBN081024	Water	Chrysene	460.000	26		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Dibenzo(a,h)anthracene	430.000	39		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Fluoranthene	420.000	23		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Fluorene	420.000	18		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Hexachlorobenzene	440.000	29		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Hexachlorobutadiene	420.000	26		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Indeno(1,2,3-cd)pyrene	430.000	38		100	ug/L
SSTDICV0.4	ICVBN081024	Water	n-Nitrosodimethylamine	430.000	30		200	ug/L
SSTDICV0.4	ICVBN081024	Water	Naphthalene	430.000	24		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Pentachlorophenol	330.000	90		200	ug/L
SSTDICV0.4	ICVBN081024	Water	Phenanthrene	450.000	20		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Pyrene	430.000	22		100	ug/L
SSTDICV0.4	ICVBN081024	Water	Total PAH	6,940.000	456		1600	ug/L
Total Svoc :				18,390.00				
Total Concentration:				18,390.00				

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN081024 SAS No.: BN081024 SDG No.: BN081024

Instrument ID: _____ Calibration Date(s): 8/10/2024 : _____

Calibration Time(s): 13:40 _____

LAB FILE ID:		RRF0.1 = BN033334.D		RRF0.2 = BN033335.D		RRF0.4 = BN033336.D		
		RRF0.8 = BN033337.D		RRF1.6 = BN033338.D		RRF3.2 = BN033339.D		
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.614	0.587	0.592	0.649	0.641	0.603	0.616	3.8
Fluoranthene-d10	1.035	1.021	1.015	1.097	1.118	1.079	1.069	4.2
n-Nitrosodimethylamine	0.591	0.536	0.559	0.617	0.592	0.559	0.572	4.9
2-Fluorophenol	1.200	1.136	1.125	1.133	1.102	1.016	1.105	6.0
Phenol-d6	1.592	1.460	1.513	1.524	1.510	1.403	1.492	4.1
bis(2-Chloroethyl)ether	1.244	1.185	1.187	1.281	1.252	1.150	1.209	4.1
Nitrobenzene-d5	0.309	0.297	0.294	0.310	0.310	0.290	0.302	2.7
Naphthalene	1.102	1.082	1.072	1.166	1.144	1.072	1.103	3.4
Hexachlorobutadiene	0.215	0.206	0.208	0.224	0.217	0.202	0.210	4.0
2-Methylnaphthalene	0.736	0.706	0.715	0.784	0.783	0.735	0.745	4.1
2-Fluorobiphenyl	1.637	1.596	1.632	1.729	1.700	1.583	1.640	3.4
Acenaphthylene	1.797	1.711	1.739	1.961	1.982	1.919	1.867	6.2
Acenaphthene	1.250	1.224	1.218	1.345	1.347	1.283	1.281	4.2
Fluorene	1.648	1.559	1.615	1.779	1.807	1.689	1.689	5.3
4,6-Dinitro-2-methylphenol	0.042	0.042	0.042	0.048	0.052	0.055	0.049	14.3
2,4,6-Tribromophenol	0.214	0.197	0.191	0.207	0.208	0.203	0.205	4.3
4-Bromophenyl-phenylether	0.237	0.226	0.228	0.249	0.249	0.244	0.239	4.0
Hexachlorobenzene	0.264	0.263	0.262	0.282	0.280	0.263	0.268	3.2
Atrazine	0.186	0.171	0.173	0.190	0.200	0.199	0.190	7.6
Pentachlorophenol	0.119	0.103	0.092	0.104	0.110	0.110	0.108	8.8
Phenanthrene	1.132	1.095	1.110	1.195	1.221	1.154	1.155	4.0
Anthracene	0.952	0.938	0.958	1.055	1.092	1.064	1.023	6.9
Fluoranthene	1.329	1.330	1.341	1.487	1.510	1.466	1.422	5.9
Pyrene	1.607	1.534	1.572	1.663	1.680	1.544	1.592	3.7
Terphenyl-d14	0.774	0.729	0.756	0.785	0.784	0.727	0.756	3.4
Benzo (a) anthracene	1.513	1.417	1.387	1.549	1.568	1.499	1.494	4.5
Chrysene	1.504	1.475	1.497	1.573	1.556	1.462	1.504	3.0
Bis(2-ethylhexyl)phthalate	0.774	0.587	0.588	0.634	0.686	0.710	0.679	11.7
Benzo (b) fluoranthene	1.395	1.396	1.420	1.591	1.609	1.533	1.505	6.5
Benzo (k) fluoranthene	1.404	1.380	1.487	1.637	1.668	1.577	1.537	7.4
Benzo (a) pyrene	1.198	1.156	1.155	1.318	1.363	1.316	1.268	7.5
Indeno (1,2,3-cd) pyrene	1.470	1.620	1.499	1.709	1.777	1.707	1.653	7.7
Dibenzo (a,h) anthracene	1.127	1.265	1.179	1.366	1.413	1.363	1.305	8.9
Benzo (g,h,i) perylene	1.303	1.486	1.329	1.500	1.533	1.459	1.448	6.4
1,4-Dioxane	0.514	0.479	0.426	0.451	0.425	0.416	0.444	9.0

All other compounds must meet a minimum RRF of 0.010.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN081024 SAS No.: BN081024 SDG NO.: BN081024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BN033336.D Time Analyzed: 17:54

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	5313	7.58	15448	10.34	9171	14.21
UPPER LIMIT	10626	8.08	30896	10.838	18342	14.712
LOWER LIMIT	2656.5	7.08	7724	9.838	4585.5	13.712
EPA SAMPLE NO.						
01 ICVBN081024	4684	7.58	13757	10.34	8186	14.21
02 PB162604BL	4855	7.58	13300	10.34	6827	14.21

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.: BN081024 SAS No.: BN081024 SDG NO.: BN081024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BN033336.D Time Analyzed: 17:54

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	5313	7.58	15448	10.34	9171	14.21
UPPER LIMIT	10626	8.08	30896	10.838	18342	14.712
LOWER LIMIT	2656.5	7.08	7724	9.838	4585.5	13.712
EPA SAMPLE NO.						
01 ICVBN081024	4684	7.58	13757	10.34	8186	14.21
02 PB162604BL	4855	7.58	13300	10.34	6827	14.21

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.: BN081024 SAS No.: BN081024 SDG NO.: BN081024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BN033336.D Time Analyzed: 17:54

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	22066	16.958	19273	21.166	19885	23.349
UPPER LIMIT	44132	17.458	38546	21.666	39770	23.849
LOWER LIMIT	11033	16.458	9636.5	20.666	9942.5	22.849
EPA SAMPLE NO.						
01 ICVBN081024	19726	16.96	17644	21.17	17318	23.35
02 PB162604BL	18252	16.96	14575	21.17	14328	23.35

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.: BN081024 SAS No.: BN081024 SDG NO.: BN081024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Aug 10 2024 12:00AM

Lab File ID: BN033336.D Time Analyzed: 17:54

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	22066	16.958	19273	21.166	19885	23.349
UPPER LIMIT	44132	17.458	38546	21.666	39770	23.849
LOWER LIMIT	11033	16.458	9636.5	20.666	9942.5	22.849
EPA SAMPLE NO.						
01 ICVBN081024	19726	16.96	17644	21.17	17318	23.35
02 PB162604BL	18252	16.96	14575	21.17	14328	23.35

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.

ICVBN081024

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN081024

SAS No.: BN081024 SDG NO.: BN081024

Lab File ID: BN033341.D

Lab Sample ID: SSTDICV0.4

Instrument ID: BNA_N

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 08/10/2024

Level: (low/med) LOW

Time Analyzed: 17:54

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBN081024	SSTDICV0.4	BN033341.D	08/10/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162604BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN081024

SAS No.: BN081024 SDG NO.: BN081024

Lab File ID: BN033342.D

Lab Sample ID: PB162604BL

Instrument ID: BNA_N

Date Extracted: 08/09/2024

Matrix: (soil/water) Solid

Date Analyzed: 08/10/2024

Level: (low/med) LOW

Time Analyzed: 19:06

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.: BN081024

Client: _____

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV0.4	ICVBN081024	BN033341.D	2-Methylnaphthalene-d10	0.4	413.00	103250	*	30	150
			Fluoranthene-d10	0.4	400.00	100000	*	30	150
			2-Fluorophenol	0.4	337.00	84250	*	10	92
			Phenol-d6	0.4	329.00	82250	*	10	100
			Nitrobenzene-d5	0.4	420.00	105000	*	11	175
			2-Fluorobiphenyl	0.4	443.00	110750	*	10	175
			2,4,6-Tribromophenol	0.4	324.00	81000	*	24	148
			Terphenyl-d14	0.4	462.00	115500	*	54	171

Surrogate Summary

SW-846

SDG No.: BN081024

Client: _____

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
PB162604BL	PB162604BL	BN033342.D	2-Methylnaphthalene-d10	0.4	0.36	90		21	128
			Fluoranthene-d10	0.4	0.39	97		13	127
			2-Fluorophenol	0.4	0.35	88		28	122
			Phenol-d6	0.4	0.34	85		12	126
			Nitrobenzene-d5	0.4	0.38	94		14	112
			2-Fluorobiphenyl	0.4	0.41	103		22	114
			2,4,6-Tribromophenol	0.4	0.18	45		10	137
			Terphenyl-d14	0.4	0.45	111		21	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN081024

Lab Code: CHEM

SAS No.: BN081024 SDG NO.: BN081024

Lab File ID: BN033333.D

DFTPP Injection Date: 08/10/2024

Instrument ID: BNA_N

DFTPP Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	39.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	50
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	7.1
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	71.5
443	15.0 - 24.0% of mass 442	13.6 (19) 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
SSTDICC0.1	SSTDICC0.1	BN033334.D	08/10/2024	13:40
SSTDICC0.2	SSTDICC0.2	BN033335.D	08/10/2024	14:16
SSTDICCC0.4	SSTDICCC0.4	BN033336.D	08/10/2024	14:53
SSTDICC0.8	SSTDICC0.8	BN033337.D	08/10/2024	15:29
SSTDICC1.6	SSTDICC1.6	BN033338.D	08/10/2024	16:05
SSTDICC3.2	SSTDICC3.2	BN033339.D	08/10/2024	16:41
SSTDICC5.0	SSTDICC5.0	BN033340.D	08/10/2024	17:17
ICVBN081024	SSTDICV0.4	BN033341.D	08/10/2024	17:54
PB162604BL	PB162604BL	BN033342.D	08/10/2024	19:06