

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN050924 SAS No.: BN050924 SDG No.: BN050924

Instrument ID: BNA_N Calibration Date/Time: 5/9/2024 12:17:52

Lab File ID: BN031448.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	0.645	0.628		-2.636	20.0
Fluoranthene-d10	1.110	1.075		-3.153	20.0
n-Nitrosodimethylamine	0.486	0.453		-6.79	20.0
2-Fluorophenol	1.136	1.120		-1.408	20.0
Phenol-d6	1.531	1.493		-2.482	20.0
bis(2-Chloroethyl) ether	1.333	1.298		-2.626	20.0
Nitrobenzene-d5	0.287	0.272		-5.226	20.0
Naphthalene	1.112	1.074		-3.417	20.0
Hexachlorobutadiene	0.195	0.190		-2.564	20.0
2-Methylnaphthalene	0.758	0.738		-2.639	20.0
2-Fluorobiphenyl	1.542	1.486		-3.632	20.0
Acenaphthylene	2.013	1.936		-3.825	20.0
Acenaphthene	1.255	1.202		-4.223	20.0
Fluorene	1.642	1.570		-4.385	20.0
4,6-Dinitro-2-methylphenol	0.033	0.028		-15.152	20.0
2,4,6-Tribromophenol	0.152	0.142		-6.579	20.0
4-Bromophenyl-phenylether	0.234	0.226		-3.419	20.0
Hexachlorobenzene	0.236	0.227		-3.814	20.0
Atrazine	0.213	0.203		-4.695	20.0
Pentachlorophenol	0.083	0.075		-9.639	20.0
Phenanthrene	1.119	1.091		-2.502	20.0
Anthracene	1.108	1.060		-4.332	20.0
Fluoranthene	1.360	1.325		-2.574	20.0
Pyrene	1.619	1.566		-3.274	20.0
Terphenyl-d14	0.979	0.935		-4.494	20.0
Benzo(a)anthracene	1.543	1.492		-3.305	20.0
Chrysene	1.469	1.421		-3.268	20.0
Bis(2-ethylhexyl)phthalate	0.903	0.857		-5.094	20.0
Benzo(b)fluoranthene	1.436	1.352		-5.85	20.0
Benzo(k)fluoranthene	1.359	1.291		-5.004	20.0
Benzo(a)pyrene	1.248	1.177		-5.689	20.0
Indeno(1,2,3-cd)pyrene	1.594	1.535		-3.701	20.0
Dibenzo(a,h)anthracene	1.264	1.228		-2.848	20.0
Benzo(g,h,i)perylene	1.359	1.314		-3.311	20.0
1,4-Dioxane	0.492	0.461		-6.301	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:	ICVBN050924			SDG No.:	BN050924		
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
BN031453.D	1		5/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	380		30	200	200	ug/L
111-44-4	bis(2-Chloroethyl)ether	390		28	100	100	ug/L
91-20-3	Naphthalene	370		24	100	100	ug/L
87-68-3	Hexachlorobutadiene	360		26	100	100	ug/L
91-57-6	2-Methylnaphthalene	380		30	100	100	ug/L
208-96-8	Acenaphthylene	410		21	100	100	ug/L
83-32-9	Acenaphthene	370		20	100	100	ug/L
Total PAH	Total PAH	6040		456	100	1600	ug/L
86-73-7	Fluorene	380		18	100	100	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	360		140	200	200	ug/L
101-55-3	4-Bromophenyl-phenylether	370		26	100	100	ug/L
118-74-1	Hexachlorobenzene	370		29	100	100	ug/L
1912-24-9	Atrazine	370		23	100	100	ug/L
87-86-5	Pentachlorophenol	340		90	200	200	ug/L
85-01-8	Phenanthrene	390		20	100	100	ug/L
120-12-7	Anthracene	400		24	100	100	ug/L
206-44-0	Fluoranthene	370		23	100	100	ug/L
129-00-0	Pyrene	370		22	100	100	ug/L
56-55-3	Benzo(a)anthracene	380		22	100	100	ug/L
218-01-9	Chrysene	370		26	100	100	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	320		140	200	200	ug/L
205-99-2	Benzo(b)fluoranthene	360		32	100	100	ug/L
207-08-9	Benzo(k)fluoranthene	390		34	100	100	ug/L
50-32-8	Benzo(a)pyrene	380		56	100	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	380		38	100	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	370		39	100	100	ug/L
191-24-2	Benzo(g,h,i)perylene	350		37	100	100	ug/L
123-91-1	1,4-Dioxane	380		68	200	200	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBN050924			SDG No.:	BN050924		
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
BN031453.D	1		5/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	386	*	30-150		96500	SPK: -0.4
93951-69-0	Fluoranthene-d10	384	*	30-150		96000	SPK: -0.4
367-12-4	2-Fluorophenol	365	*	10-92		91250	SPK: -0.4
13127-88-3	Phenol-d6	357	*	10-100		89250	SPK: -0.4
4165-60-0	Nitrobenzene-d5	392	*	11-175		98000	SPK: -0.4
321-60-8	2-Fluorobiphenyl	401	*	10-175		100250	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	343	*	24-148		85750	SPK: -0.4
1718-51-0	Terphenyl-d14	405	*	54-171		101250	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	11227		7.718			
1146-65-2	Naphthalene-d8	36503		10.496			
15067-26-2	Acenaphthene-d10	22517		14.349			
1517-22-2	Phenanthrene-d10	51188		17.091			
1719-03-5	Chrysene-d12	45025		21.274			
1520-96-3	Perylene-d12	49743		23.519			

Report of Analysis

Client:		Date Collected:	5/3/2024 12:00:00 AM
Project:		Date Received:	5/3/2024 12:00:00 AM
Client Sample ID:	PB160696BL	SDG No.:	BN050924
Lab Sample ID:	PB160696BL	Matrix:	Water
Analytical Method:	8270-Modified	% 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
BN031454.D	1	5/3/2024 12:00:00 AM	5/9/2024 12:00:00 AM	PB160696

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.02	U	0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.03	U	0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.1	0.1	ug/L
Total PAH	Total PAH	0.45	U	0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.14	U	0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.02	U	0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.09	U	0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.02	U	0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.02	U	0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.14	U	0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	U	0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.04	U	0.04	0.1	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.07	U	0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	5/3/2024 12:00:00 AM
Project:		Date Received:	5/3/2024 12:00:00 AM
Client Sample ID:	PB160696BL	SDG No.:	BN050924
Lab Sample ID:	PB160696BL	Matrix:	Water
Analytical Method:	8270-Modified	% 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
BN031454.D	1	5/3/2024 12:00:00 AM	5/9/2024 12:00:00 AM	PB160696

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.308		30-150		77	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.311		30-150		78	SPK: -0.4
367-12-4	2-Fluorophenol	0.333		10-92		83	SPK: -0.4
13127-88-3	Phenol-d6	0.324		10-100		81	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.302		11-175		75	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.318		10-175		79	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.27		24-148		68	SPK: -0.4
1718-51-0	Terphenyl-d14	0.311		54-171		78	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	13668	7.718				
1146-65-2	Naphthalene-d8	41851	10.496				
15067-26-2	Acenaphthene-d10	23945	14.349				
1517-22-2	Phenanthrene-d10	54694	17.091				
1719-03-5	Chrysene-d12	44876	21.274				
1520-96-3	Perylene-d12	48919	23.516				



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet SW-846

SDG No.: BN050924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBN050924								
SSTDICV0.4	ICVBN050924	Water	1,4-Dioxane	380.000	68		200	ug/L
SSTDICV0.4	ICVBN050924	Water	2-Methylnaphthalene	380.000	30		100	ug/L
SSTDICV0.4	ICVBN050924	Water	4,6-Dinitro-2-methylphenol	360.000	140		200	ug/L
SSTDICV0.4	ICVBN050924	Water	4-Bromophenyl-phenylether	370.000	26		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Acenaphthene	370.000	20		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Acenaphthylene	410.000	21		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Anthracene	400.000	24		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Atrazine	370.000	23		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Benzo(a)anthracene	380.000	22		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Benzo(a)pyrene	380.000	56		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Benzo(b)fluoranthene	360.000	32		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Benzo(g,h,i)perylene	350.000	37		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Benzo(k)fluoranthene	390.000	34		100	ug/L
SSTDICV0.4	ICVBN050924	Water	bis(2-Chloroethyl)ether	390.000	28		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Bis(2-ethylhexyl)phthalate	320.000	140		200	ug/L
SSTDICV0.4	ICVBN050924	Water	Chrysene	370.000	26		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Dibenzo(a,h)anthracene	370.000	39		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Fluoranthene	370.000	23		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Fluorene	380.000	18		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Hexachlorobenzene	370.000	29		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Hexachlorobutadiene	360.000	26		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Indeno(1,2,3-cd)pyrene	380.000	38		100	ug/L
SSTDICV0.4	ICVBN050924	Water	n-Nitrosodimethylamine	380.000	30		200	ug/L
SSTDICV0.4	ICVBN050924	Water	Naphthalene	370.000	24		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Pentachlorophenol	340.000	90		200	ug/L
SSTDICV0.4	ICVBN050924	Water	Phenanthrene	390.000	20		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Pyrene	370.000	22		100	ug/L
SSTDICV0.4	ICVBN050924	Water	Total PAH	6,040.000	456		1600	ug/L
Total Svoc :				16,100.00				
Total Concentration:				16,100.00				

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN050924 SAS No.: BN050924 SDG No.: BN050924

Instrument ID: _____ Calibration Date(s): 5/9/2024 1: _____

Calibration Time(s): 16:39 _____

LAB FILE ID:	RRF0.1 = BN031446.D			RRF0.2 = BN031447.D			RRF0.4 = BN031448.D	
	RRF0.8 = BN031449.D			RRF1.6 = BN031450.D			RRF3.2 = BN031451.D	
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.632	0.658	0.628	0.637	0.676	0.648	0.645	2.7
Fluoranthene-d10	1.095	1.119	1.075	1.102	1.152	1.135	1.110	2.4
n-Nitrosodimethylamine	0.503	0.499	0.453	0.459	0.512	0.493	0.486	4.6
2-Fluorophenol	1.153	1.181	1.120	1.102	1.178	1.129	1.136	3.2
Phenol-d6	1.513	1.585	1.493	1.492	1.603	1.537	1.531	3.0
bis(2-Chloroethyl)ether	1.342	1.343	1.298	1.314	1.407	1.334	1.333	2.8
Nitrobenzene-d5	0.282	0.298	0.272	0.274	0.296	0.293	0.287	3.8
Naphthalene	1.116	1.130	1.074	1.086	1.159	1.118	1.112	2.6
Hexachlorobutadiene	0.200	0.199	0.190	0.190	0.201	0.194	0.195	2.8
2-Methylnaphthalene	0.763	0.781	0.738	0.748	0.790	0.757	0.758	2.9
2-Fluorobiphenyl	1.519	1.570	1.486	1.521	1.619	1.554	1.542	2.8
Acenaphthylene	1.976	2.053	1.936	1.956	2.104	2.048	2.013	3.0
Acenaphthene	1.204	1.264	1.202	1.231	1.325	1.280	1.255	3.6
Fluorene	1.582	1.680	1.570	1.617	1.737	1.671	1.642	3.6
4,6-Dinitro-2-methylphenol	0.026	0.029	0.028	0.030	0.035	0.039	0.033	18.8
2,4,6-Tribromophenol	0.151	0.150	0.142	0.144	0.160	0.157	0.152	4.8
4-Bromophenyl-phenylether	0.237	0.237	0.226	0.228	0.246	0.236	0.234	2.8
Hexachlorobenzene	0.236	0.237	0.227	0.228	0.246	0.243	0.236	3.0
Atrazine	0.214	0.217	0.203	0.207	0.223	0.217	0.213	3.4
Pentachlorophenol	0.065	0.069	0.075	0.080	0.094	0.099	0.083	18.0
Phenanthrene	1.118	1.126	1.091	1.093	1.167	1.139	1.119	2.4
Anthracene	1.112	1.126	1.060	1.075	1.156	1.130	1.108	3.0
Fluoranthene	1.404	1.383	1.325	1.335	1.412	1.366	1.360	3.2
Pyrene	1.636	1.594	1.566	1.612	1.694	1.629	1.619	2.5
Terphenyl-d14	1.059	0.972	0.935	0.976	1.009	0.963	0.979	4.4
Benzo (a) anthracene	1.555	1.499	1.492	1.511	1.629	1.572	1.543	3.1
Chrysene	1.481	1.437	1.421	1.446	1.536	1.500	1.469	2.7
Bis(2-ethylhexyl)phthalate	1.011	0.868	0.857	0.819	0.907	0.919	0.903	7.0
Benzo (b) fluoranthene	1.445	1.422	1.352	1.392	1.509	1.474	1.436	3.6
Benzo (k) fluoranthene	1.376	1.338	1.291	1.351	1.439	1.371	1.359	3.3
Benzo (a) pyrene	1.262	1.224	1.177	1.219	1.311	1.279	1.248	3.6
Indeno (1,2,3-cd) pyrene	1.607	1.567	1.535	1.565	1.662	1.623	1.594	2.7
Dibenzo (a,h) anthracene	1.273	1.252	1.228	1.249	1.316	1.277	1.264	2.3
Benzo (g,h,i) perylene	1.373	1.339	1.314	1.333	1.414	1.382	1.359	2.5
1,4-Dioxane	0.517	0.538	0.461	0.466	0.506	0.488	0.492	5.9

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.: BN050924 SAS No.: BN050924 SDG NO.: BN050924

EPA Sample No.: SSTDICCC0.4 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BN031448.D Time Analyzed: 20:55

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	12095	7.718	39441	10.50	24276	14.35
UPPER LIMIT	24190	8.218	78882	10.996	48552	14.849
LOWER LIMIT	6047.5	7.218	19720.5	9.996	12138	13.849
EPA SAMPLE NO.						
01 ICVBN050924	11227	7.72	36503	10.50	22517	14.35
02 PB160696BL	13668	7.72	41851	10.50	23945	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN050924 SAS No.: BN050924 SDG NO.: BN050924

EPA Sample No.: SSTDICCC0.4 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BN031448.D Time Analyzed: 20:55

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	12095	7.718	39441	10.50	24276	14.35
UPPER LIMIT	24190	8.218	78882	10.996	48552	14.849
LOWER LIMIT	6047.5	7.218	19720.5	9.996	12138	13.849
EPA SAMPLE NO.						
01 ICVBN050924	11227	7.72	36503	10.50	22517	14.35
02 PB160696BL	13668	7.72	41851	10.50	23945	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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN050924 SAS No.: BN050924 SDG NO.: BN050924

EPA Sample No.: SSTDICCC0.4 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BN031448.D Time Analyzed: 20:55

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	54382	17.091	48026	21.274	55976	23.519
UPPER LIMIT	108764	17.591	96052	21.774	111952	24.019
LOWER LIMIT	27191	16.591	24013	20.774	27988	23.019
EPA SAMPLE NO.						
01 ICVBN050924	51188	17.09	45025	21.27	49743	23.52
02 PB160696BL	54694	17.09	44876	21.27	48919	23.52

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.: BN050924 SAS No.: BN050924 SDG NO.: BN050924

EPA Sample No.: SSTDICCC0.4 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BN031448.D Time Analyzed: 20:55

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	54382	17.091	48026	21.274	55976	23.519
UPPER LIMIT	108764	17.591	96052	21.774	111952	24.019
LOWER LIMIT	27191	16.591	24013	20.774	27988	23.019
EPA SAMPLE NO.						
01 ICVBN050924	51188	17.09	45025	21.27	49743	23.52
02 PB160696BL	54694	17.09	44876	21.27	48919	23.52

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.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: _____

Client: _____

Analytical Method:

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBN050924

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN050924

SAS No.: BN050924 SDG NO.: BN050924

Lab File ID: BN031453.D

Lab Sample ID: SSTDICV0.4

Instrument ID: BNA_N

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 05/09/2024

Level: (low/med) LOW

Time Analyzed: 20:55

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBN050924	SSTDICV0.4	BN031453.D	05/09/2024

COMMENTS: _____



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160696BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN050924

SAS No.: BN050924 SDG NO.: BN050924

Lab File ID: BN031454.D

Lab Sample ID: PB160696BL

Instrument ID: BNA_N

Date Extracted: 05/03/2024

Matrix: (soil/water) Water

Date Analyzed: 05/09/2024

Level: (low/med) LOW

Time Analyzed: 22:08

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

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

COMMENTS:



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BN050924

Client: _____

Analytical Method:

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
-----------	-------	------------------	--------	-------	-----	-------------	-----	-------------	-----	----------------	-----

Lab Sample ID:

Client Sample ID:

DataFile:



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: BN050924

Client: _____

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV0.4	ICVBN050924	BN031453.D	2-Methylnaphthalene-d10	0.4	386.00	96500	*	30	150
			Fluoranthene-d10	0.4	384.00	96000	*	30	150
			2-Fluorophenol	0.4	365.00	91250	*	10	92
			Phenol-d6	0.4	357.00	89250	*	10	100
			Nitrobenzene-d5	0.4	392.00	98000	*	11	175
			2-Fluorobiphenyl	0.4	401.00	100250	*	10	175
			2,4,6-Tribromophenol	0.4	343.00	85750	*	24	148
			Terphenyl-d14	0.4	405.00	101250	*	54	171



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: BN050924

Client: _____

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB160696BL	PB160696BL	BN031454.D	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
			Fluoranthene-d10	0.4	0.31	78		30	150
			2-Fluorophenol	0.4	0.33	83		10	92
			Phenol-d6	0.4	0.32	81		10	100
			Nitrobenzene-d5	0.4	0.30	75		11	175
			2-Fluorobiphenyl	0.4	0.32	79		10	175
			2,4,6-Tribromophenol	0.4	0.27	68		24	148
			Terphenyl-d14	0.4	0.31	78		54	171

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN050924

Lab Code: CHEM

SAS No.: BN050924

SDG NO.: BN050924

Lab File ID: BN031445.D

DFTPP Injection Date: 05/09/2024

Instrument ID: BNA_N

DFTPP Injection Time: 15:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.4
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	45.6
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	26.4
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	12.9
442	Greater than 50% of mass 198	81.7
443	15.0 - 24.0% of mass 442	13.9 (17) 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	BN031446.D	05/09/2024	16:39
SSTDICC0.2	SSTDICC0.2	BN031447.D	05/09/2024	17:16
SSTDICCC0.4	SSTDICCC0.4	BN031448.D	05/09/2024	17:52
SSTDICC0.8	SSTDICC0.8	BN031449.D	05/09/2024	18:29
SSTDICC1.6	SSTDICC1.6	BN031450.D	05/09/2024	19:05
SSTDICC3.2	SSTDICC3.2	BN031451.D	05/09/2024	19:42
SSTDICC5.0	SSTDICC5.0	BN031452.D	05/09/2024	20:19
ICVBN050924	SSTDICV0.4	BN031453.D	05/09/2024	20:55
PB160696BL	PB160696BL	BN031454.D	05/09/2024	22:08