

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN123124 SAS No.: BN123124 SDG No.: BN123124

Instrument ID: BNA_N Calibration Date/Time: 12/31/2024 : 15:15

Lab File ID: BN035869.D Init. Calib. Date(s): _____

EPA Sample No.: SICV243 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.439	0.446	0.010	1.601	40.0
1,4-Dioxane-d8	0.403	0.414	0.010	2.5876	40.0
Naphthalene	1.065	1.122	0.600	5.3432	30.0
1-Methylnaphthalene	0.682	0.680	0.300	-0.1635	30.0
2-Methylnaphthalene	0.676	0.724	0.300	7.0564	30.0
Acenaphthylene	1.872	2.083	0.900	11.2287	30.0
Acenaphthene	1.307	1.426	0.500	9.0643	30.0
Fluorene	1.402	1.562	0.700	11.3995	30.0
Pentachlorophenol	0.096	0.086	0.010	-10.7098	50.0
Phenanthrene	1.102	1.165	0.300	5.7325	30.0
Anthracene	1.065	1.117	0.400	4.9093	30.0
Fluoranthene	1.392	1.557	0.400	11.8207	30.0
Pyrene	1.451	1.598	0.500	10.0784	30.0
Benzo (a) anthracene	1.369	1.408	0.400	2.8319	30.0
Chrysene	1.358	1.411	0.400	3.8937	30.0
Benzo (b) fluoranthene	1.204	1.266	0.200	5.1642	30.0
Benzo (k) fluoranthene	1.236	1.318	0.200	6.6395	30.0
Benzo (a) pyrene	1.131	1.192	0.200	5.344	30.0
Indeno (1,2,3-cd) pyrene	1.467	1.495	0.200	1.9063	30.0
Dibenzo (a,h) anthracene	1.154	1.178	0.200	2.117	30.0
Benzo (g,h,i) perylene	1.162	1.168	0.200	0.5038	30.0
Fluoranthene-d10	1.059	1.124	0.400	6.1249	30.0
2-Methylnaphthalene-d10	0.520	0.522	0.300	0.4126	30.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:		SDG No.:	
Lab Sample ID:		Matrix:	
Analytical Method:			
Sample Wt/Vol:	Units:	Final Vol:	
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
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CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BN123124

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration:



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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN123124 SAS No.: BN123124 SDG No.: BN123124
Instrument ID: _____ Calibration Date(s): 12/31/2024 _____
Calibration Time(s): 11:31 _____

LAB FILE ID:		RRFAL1 = BN035863.D			RRFAL2 = BN035864.D		RRFAL3 = BN035865.D	
		RRFAL4 = BN035866.D			RRFAL5 = BN035867.D		RRFAL6 = BN035868.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.476	0.429	0.437	0.423	0.431	0.439	4.8
1,4-Dioxane-d8		0.446	0.396	0.395	0.389	0.390	0.403	6.0
Naphthalene	1.092	1.078	1.082	1.043	1.030		1.065	2.5
1-Methylnaphthalene	0.694	0.697	0.699	0.666	0.651		0.682	3.2
2-Methylnaphthalene	0.697	0.687	0.687	0.655	0.654		0.676	3.0
Acenaphthylene	1.879	1.866	1.884	1.861	1.872		1.872	0.5
Acenaphthene	1.297	1.318	1.321	1.304	1.296		1.307	0.9
Fluorene	1.417	1.388	1.420	1.390	1.393		1.402	1.1
Pentachlorophenol		0.084	0.084	0.093	0.105	0.114	0.096	13.8
Phenanthrene	1.106	1.099	1.118	1.099	1.089		1.102	1.0
Anthracene	1.079	1.050	1.082	1.053	1.061		1.065	1.4
Fluoranthene	1.358	1.381	1.413	1.384	1.426		1.392	2.0
Pyrene	1.428	1.446	1.467	1.446	1.471		1.451	1.2
Benzo (a) anthracene	1.399	1.387	1.374	1.339	1.344		1.369	1.9
Chrysene	1.384	1.366	1.358	1.344	1.341		1.358	1.3
Benzo (b) fluoranthene	1.222	1.221	1.177	1.205	1.196		1.204	1.5
Benzo (k) fluoranthene	1.252	1.230	1.225	1.246	1.226		1.236	1.0
Benzo (a) pyrene	1.155	1.139	1.104	1.133	1.125		1.131	1.7
Indeno (1,2,3-cd) pyrene	1.472	1.447	1.438	1.488	1.489		1.467	1.6
Dibenzo (a,h) anthracene	1.161	1.139	1.133	1.168	1.169		1.154	1.5
Benzo (g,h,i) perylene	1.170	1.152	1.131	1.180	1.179		1.162	1.8
Fluoranthene-d10	1.051	1.068	1.078	1.044	1.054		1.059	1.3
2-Methylnaphthalene-d10	0.543	0.531	0.532	0.504	0.490		0.520	4.2

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.: BN123124 SAS No.: BN123124 SDG NO.: BN123124

EPA Sample No.: SSTD0.4239 Date Analyzed: Dec 31 2024 12:00AM

Lab File ID: BN035865.D Time Analyzed: 15:15

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	1741	7.837	3882	10.63	2121	14.47
UPPER LIMIT	3482	8.337	7764	11.132	4242	14.973
LOWER LIMIT	870.5	7.337	1941	10.132	1060.5	13.973
EPA SAMPLE NO.						
01 SICV243	1385	7.84	2888	10.63	1526	14.47

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.: BN123124 SAS No.: BN123124 SDG NO.: BN123124

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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.: BN123124 SAS No.: BN123124 SDG NO.: BN123124

EPA Sample No.: SSTD0.4239 Date Analyzed: Dec 31 2024 12:00AM

Lab File ID: BN035865.D Time Analyzed: 15:15

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	4204	17.212	3827	21.389	4517	23.695
UPPER LIMIT	8408	17.712	7654	21.889	9034	24.195
LOWER LIMIT	2102	16.712	1913.5	20.889	2258.5	23.195
EPA SAMPLE NO.						
01 SICV243	3142	17.21	2682	21.39	2897	23.70

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.: BN123124 SAS No.: BN123124 SDG NO.: BN123124

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BN123124

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
SSTDICV0.4	1,4-Dioxane	0.4	0	ug/L	0				0	0		
	Naphthalene	0.4	0	ug/L	0				0	0		
	1-Methylnaphthalene	0.4	0	ug/L	0				0	0		
	2-Methylnaphthalene	0.4	0	ug/L	0				0	0		
	Acenaphthylene	0.4	0	ug/L	0				0	0		
	Acenaphthene	0.4	0	ug/L	0				0	0		
	Fluorene	0.4	0	ug/L	0				0	0		
	Pentachlorophenol	0.4	0	ug/L	0				0	0		
	Phenanthrene	0.4	0	ug/L	0				0	0		
	Anthracene	0.4	0	ug/L	0				0	0		
	Fluoranthene	0.4	0	ug/L	0				0	0		
	Pyrene	0.4	0	ug/L	0				0	0		
	Benzo(a)anthracene	0.4	0	ug/L	0				0	0		
	Chrysene	0.4	0	ug/L	0				0	0		
	Benzo(b)fluoranthene	0.4	0	ug/L	0				0	0		
	Benzo(k)fluoranthene	0.4	0	ug/L	0				0	0		
	Benzo(a)pyrene	0.4	0	ug/L	0				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0	ug/L	0				0	0		
	Dibenzo(a,h)anthracene	0.4	0	ug/L	0				0	0		
	Benzo(g,h,i)perylene	0.4	0	ug/L	0				0	0		

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SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

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Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN123124

SAS No.: BN123124 SDG NO.: BN123124

Lab File ID: _____

Lab Sample ID: _____

Instrument ID: _____

Date Extracted: _____

Matrix: (soil/water) _____

Date Analyzed: _____

Level: (low/med) _____

Time Analyzed: _____

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.: _____

Client: _____

Analytical Method: _____

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN123124

Lab Code: CHEM

SAS No.: BN123124

SDG NO.: BN123124

Lab File ID: BN035862.D

DFTPP Injection Date: 12/31/2024

Instrument ID: BNA_N

DFTPP Injection Time: 10:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.7
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	42.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	70.5
443	15.0 - 24.0% of mass 442	14.1 (20) 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
SSTD0.1237	SSTD0.149	BN035863.D	12/31/2024	11:31
SSTD0.2238	SSTD0.250	BN035864.D	12/31/2024	12:07
SSTD0.4239	SSTD0.451	BN035865.D	12/31/2024	12:43
SSTD0.8240	SSTD0.852	BN035866.D	12/31/2024	13:19
SSTD1.6241	SSTD1.653	BN035867.D	12/31/2024	13:55
SSTD3.2242	SSTD3.254	BN035868.D	12/31/2024	14:31
SICV243	SSTDICV0.4	BN035869.D	12/31/2024	15:15