

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM120324 SAS No.: BM120324 SDG No.: BM120324

Instrument ID: BNA_M Calibration Date/Time: 12/2/2024 1: 21:06

Lab File ID: BM048815.D Init. Calib. Date(s): _____

EPA Sample No.: SICV005 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.605	0.523	0.010	-13.5894	40.0
1,4-Dioxane-d8	0.511	0.460	0.010	-9.9811	40.0
Naphthalene	1.011	0.875	0.600	-13.4761	30.0
1-Methylnaphthalene	0.618	0.511	0.300	-17.2836	30.0
2-Methylnaphthalene	0.584	0.513	0.300	-12.2402	30.0
Acenaphthylene	1.753	1.551	0.900	-11.5099	30.0
Acenaphthene	1.266	1.106	0.500	-12.5848	30.0
Fluorene	1.310	1.153	0.700	-11.9874	30.0
Pentachlorophenol	0.035	0.023	0.010	-33.7334	50.0
Phenanthrene	1.014	0.830	0.300	-18.1598	30.0
Anthracene	0.904	0.756	0.400	-16.3	30.0
Fluoranthene	1.839	1.583	0.400	-13.9061	30.0
Pyrene	1.914	1.626	0.500	-15.0528	30.0
Benzo (a) anthracene	1.129	0.877	0.400	-22.3219	30.0
Chrysene	1.787	1.576	0.400	-11.8324	30.0
Benzo (b) fluoranthene	1.124	0.938	0.200	-16.5839	30.0
Benzo (k) fluoranthene	1.575	1.351	0.200	-14.194	30.0
Benzo (a) pyrene	1.152	1.044	0.200	-9.3524	30.0
Indeno (1,2,3-cd) pyrene	1.522	1.329	0.200	-12.7158	30.0
Dibenzo (a,h) anthracene	1.138	0.996	0.200	-12.5244	30.0
Benzo (g,h,i) perylene	1.320	1.176	0.200	-10.9571	30.0
Fluoranthene-d10	1.235	1.095	0.400	-11.2804	30.0
2-Methylnaphthalene-d10	0.481	0.408	0.300	-15.2467	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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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BM120324

Client:

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

Total Concentration:



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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM120324 SAS No.: BM120324 SDG No.: BM120324
Instrument ID: _____ Calibration Date(s): 12/2/2024 : _____
Calibration Time(s): 17:32 _____

LAB FILE ID:		RRFAL1 = BM048809.D			RRFAL2 = BM048810.D		RRFAL3 = BM048811.D	
		RRFAL4 = BM048812.D			RRFAL5 = BM048813.D		RRFAL6 = BM048814.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.711	0.642	0.604	0.551	0.515	0.605	12.7
1,4-Dioxane-d8		0.552	0.532	0.513	0.490	0.468	0.511	6.5
Naphthalene	1.064	1.029	1.024	0.988	0.949		1.011	4.3
1-Methylnaphthalene	0.640	0.624	0.625	0.593	0.607		0.618	2.9
2-Methylnaphthalene	0.592	0.577	0.586	0.580	0.585		0.584	1.0
Acenaphthylene	1.799	1.756	1.777	1.731	1.703		1.753	2.2
Acenaphthene	1.297	1.257	1.283	1.252	1.240		1.266	1.9
Fluorene	1.264	1.268	1.335	1.333	1.351		1.310	3.1
Pentachlorophenol		0.024	0.029	0.035	0.038	0.047	0.035	25.3
Phenanthrene	1.049	0.973	0.991	1.043	1.014		1.014	3.2
Anthracene	0.855	0.876	0.895	0.944	0.949		0.904	4.6
Fluoranthene	2.072	1.942	1.852	1.688	1.641		1.839	9.7
Pyrene	2.213	2.046	1.939	1.722	1.652		1.914	12.1
Benzo(a)anthracene	1.213	1.103	1.092	1.102	1.139		1.129	4.4
Chrysene	2.019	1.907	1.807	1.655	1.547		1.787	10.6
Benzo(b)fluoranthene	1.189	1.066	1.066	1.159	1.140		1.124	5.0
Benzo(k)fluoranthene	1.625	1.598	1.576	1.550	1.526		1.575	2.5
Benzo(a)pyrene	1.147	1.173	1.140	1.160	1.139		1.152	1.3
Indeno(1,2,3-cd)pyrene	1.559	1.471	1.489	1.545	1.548		1.522	2.6
Dibenzo(a,h)anthracene	1.091	1.099	1.136	1.174	1.191		1.138	3.9
Benzo(g,h,i)perylene	1.377	1.283	1.302	1.335	1.305		1.320	2.8
Fluoranthene-d10	1.281	1.284	1.293	1.177	1.139		1.235	5.8
2-Methylnaphthalene-d10	0.484	0.477	0.490	0.476	0.481		0.481	1.1

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.: BM120324 SAS No.: BM120324 SDG NO.: BM120324

EPA Sample No.: SSTD0.4001 Date Analyzed: Dec 2 2024 12:00AM

Lab File ID: BM048811.D Time Analyzed: 21:06

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	3158	7.611	8838	10.38	4778	14.24
UPPER LIMIT	6316	8.111	17676	10.875	9556	14.743
LOWER LIMIT	1579	7.111	4419	9.875	2389	13.743
EPA SAMPLE NO.						
01 SICV005	3309	7.61	8845	10.38	4811	14.24

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.: BM120324 SAS No.: BM120324 SDG NO.: BM120324

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.: BM120324 SAS No.: BM120324 SDG NO.: BM120324

EPA Sample No.: SSTD0.4001 Date Analyzed: Dec 2 2024 12:00AM

Lab File ID: BM048811.D Time Analyzed: 21:06

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	8953	16.989	5613	21.186	6682	23.37
UPPER LIMIT	17906	17.489	11226	21.686	13364	23.87
LOWER LIMIT	4476.5	16.489	2806.5	20.686	3341	22.87
EPA SAMPLE NO.						
01 SICV005	9162	16.99	5797	21.19	6678	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.: BM120324 SAS No.: BM120324 SDG NO.: BM120324

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.: BM120324

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.: BM120324

SAS No.: BM120324 SDG NO.: BM120324

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: _____



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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: BM120324

Lab Code: CHEM

SAS No.: BM120324

SDG NO.: BM120324

Lab File ID: BM048808.D

DFTPP Injection Date: 12/02/2024

Instrument ID: BNA_M

DFTPP Injection Time: 16:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.9
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	40.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.4
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	23.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	64.5
443	15.0 - 24.0% of mass 442	12.4 (19.2) 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
SSTD0.1048	SSTD0.118	BM048809.D	12/02/2024	17:32
SSTD0.2049	SSTD0.219	BM048810.D	12/02/2024	18:07
SSTD0.4001	SSTD0.420	BM048811.D	12/02/2024	18:43
SSTD0.8002	SSTD0.821	BM048812.D	12/02/2024	19:19
SSTD1.6003	SSTD1.622	BM048813.D	12/02/2024	19:55
SSTD3.2004	SSTD3.223	BM048814.D	12/02/2024	20:31
SICV005	SSTDICV0.4	BM048815.D	12/02/2024	21:06