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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG No.: BM111924

Instrument ID: BNA_M Calibration Date/Time: 11/19/2024 1 23:26

Lab File ID: BM048807.D Init. Calib. Date(s):

EPA Sample No.: SICV047 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.540	0.571	0.010	5.6237	40.0
1,4-Dioxane-d8	0.483	0.492	0.010	1.8378	40.0
Naphthalene	1.025	1.088	0.600	6.1411	30.0
1-Methylnaphthalene	0.680	0.658	0.300	-3.2477	30.0
2-Methylnaphthalene	0.673	0.705	0.300	4.846	30.0
Acenaphthylene	1.894	2.123	0.900	12.1382	30.0
Acenaphthene	1.290	1.332	0.500	3.2385	30.0
Fluorene	1.436	1.519	0.700	5.7217	30.0
Pentachlorophenol	0.111	0.103	0.010	-7.5126	50.0
Phenanthrene	1.144	1.209	0.300	5.7251	30.0
Anthracene	1.141	1.196	0.400	4.8284	30.0
Fluoranthene	2.033	2.156	0.400	6.0319	30.0
Pyrene	2.172	2.267	0.500	4.4013	30.0
Benzo(a)anthracene	1.895	1.948	0.400	2.7866	30.0
Chrysene	1.806	1.924	0.400	6.5441	30.0
Benzo(b)fluoranthene	1.670	1.779	0.200	6.5243	30.0
Benzo(k)fluoranthene	1.666	1.816	0.200	9.0205	30.0
Benzo(a)pyrene	1.545	1.669	0.200	8.0792	30.0
Indeno(1,2,3-cd)pyrene	2.045	2.136	0.200	4.4754	30.0
Dibenzo(a,h)anthracene	1.524	1.619	0.200	6.2282	30.0
Benzo(g,h,i)perylene	1.625	1.723	0.200	6.0457	30.0
Fluoranthene-d10	1.334	1.469	0.400	10.1211	30.0
2-Methylnaphthalene-d10	0.523	0.568	0.300	8.5441	30.0

All other compounds must meet a minimum RRF of 0.010.

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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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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Hit Summary Sheet
SW-846

SDG No.: BM111924

Client:

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

Total Concentration:

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG No.: BM111924

Instrument ID: Calibration Date(s): 11/19/2024

Calibration Time(s): 19:49

LAB FILE ID: RRFAL1 = BM048801.D RRFAL2 = BM048802.D RRFAL3 = BM048803.D
RRFAL4 = BM048804.D RRFAL5 = BM048805.D RRFAL6 = BM048806.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.598	0.582	0.536	0.494	0.490	0.540	9.1
1,4-Dioxane-d8		0.529	0.511	0.478	0.446	0.453	0.483	7.4
Naphthalene	1.069	1.032	1.063	0.996	0.966		1.025	4.3
1-Methylnaphthalene	0.724	0.686	0.708	0.646	0.635		0.680	5.7
2-Methylnaphthalene	0.705	0.680	0.703	0.645	0.631		0.673	5.0
Acenaphthylene	1.971	1.918	1.939	1.844	1.795		1.894	3.8
Acenaphthene	1.352	1.300	1.322	1.259	1.220		1.290	4.0
Fluorene	1.507	1.450	1.472	1.391	1.362		1.436	4.1
Pentachlorophenol		0.105	0.113	0.110	0.114	0.115	0.111	3.5
Phenanthrene	1.202	1.164	1.159	1.112	1.081		1.144	4.1
Anthracene	1.194	1.167	1.162	1.110	1.073		1.141	4.3
Fluoranthene	2.123	2.065	2.062	1.988	1.928		2.033	3.7
Pyrene	2.262	2.232	2.206	2.117	2.042		2.172	4.2
Benzo(a)anthracene	1.995	1.933	1.914	1.840	1.794		1.895	4.2
Chrysene	1.888	1.858	1.844	1.750	1.690		1.806	4.6
Benzo(b)fluoranthene	1.715	1.696	1.677	1.645	1.615		1.670	2.4
Benzo(k)fluoranthene	1.752	1.678	1.667	1.636	1.594		1.666	3.5
Benzo(a)pyrene	1.602	1.562	1.565	1.514	1.480		1.545	3.1
Indeno(1,2,3-cd)pyrene	2.165	2.078	2.043	1.982	1.956		2.045	4.0
Dibenzo(a,h)anthracene	1.584	1.550	1.540	1.486	1.462		1.524	3.2
Benzo(g,h,i)perylene	1.719	1.660	1.636	1.574	1.535		1.625	4.5
Fluoranthene-d10	1.379	1.348	1.364	1.307	1.274		1.334	3.2
2-Methylnaphthalene-d10	0.544	0.521	0.545	0.508	0.498		0.523	4.0

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG NO.: BM111924

EPA Sample No.: SSTD0.4043 Date Analyzed: Nov 19 2024 12:00AM

Lab File ID: BM048803.D Time Analyzed: 23:26

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	6728	7.632	21426	10.40	12080	14.27
	UPPER LIMIT	13456	8.132	42852	10.903	24160	14.771
	LOWER LIMIT	3364	7.132	10713	9.903	6040	13.771
	EPA SAMPLE NO.						
01	SICV047	7649	7.63	24416	10.40	13123	14.27

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG NO.: BM111924

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG NO.: BM111924

EPA Sample No.: SSTD0.4043 Date Analyzed: Nov 19 2024 12:00AM

Lab File ID: BM048803.D Time Analyzed: 23:26

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	23517	17.019	14849	21.216	17160	23.411
	UPPER LIMIT	47034	17.519	29698	21.716	34320	23.911
	LOWER LIMIT	11758.5	16.519	7424.5	20.716	8580	22.911
	EPA SAMPLE NO.						
01	SICV047	25243	17.02	15657	21.22	17361	23.41

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG NO.: BM111924

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.

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM111924

Client:

Analytical Method: SFAM_SVOASIM **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
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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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM111924 SAS No.: BM111924 SDG NO.: BM111924

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 (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM111924

Lab Code: CHEM SAS No.: BM111924 SDG NO.: BM111924

Lab File ID: BM048800.D DFTPP Injection Date: 11/19/2024

Instrument ID: BNA_M DFTPP Injection Time: 18:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.3
68	Less than 2.0% of mass 69	0.4 (1.2) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	45.1
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	6.9
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	12.3
442	Greater than 50% of mass 198	79.2
443	15.0 - 24.0% of mass 442	15.3 (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
SSTD0.1041	SSTD0.112	BM048801.D	11/19/2024	19:49
SSTD0.2042	SSTD0.213	BM048802.D	11/19/2024	20:25
SSTD0.4043	SSTD0.414	BM048803.D	11/19/2024	21:01
SSTD0.8044	SSTD0.815	BM048804.D	11/19/2024	21:37
SSTD1.6045	SSTD1.616	BM048805.D	11/19/2024	22:14
SSTD3.2046	SSTD3.217	BM048806.D	11/19/2024	22:50
SICV047	SSTDICV0.4	BM048807.D	11/19/2024	23:26