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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN031524 SAS No.: BN031524 SDG No.: BN031524

Instrument ID: BNA_N Calibration Date/Time: 3/14/2024 1: 22:49

Lab File ID: BN030409.D Init. Calib. Date(s): _____

EPA Sample No.: SICV201 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.531	0.491	0.010	-7.6071	40.0
1,4-Dioxane-d8	0.488	0.493	0.010	1.0423	40.0
Naphthalene	1.080	1.113	0.600	3.0873	30.0
1-Methylnaphthalene	0.671	0.659	0.300	-1.7381	30.0
2-Methylnaphthalene	0.632	0.657	0.300	3.8012	30.0
Acenaphthylene	1.907	1.934	0.900	1.4074	30.0
Acenaphthene	1.397	1.387	0.500	-0.7313	30.0
Fluorene	1.537	1.564	0.700	1.7205	30.0
Pentachlorophenol	0.115	0.105	0.010	-8.316	50.0
Phenanthrene	1.179	1.168	0.300	-0.9202	30.0
Anthracene	1.077	1.040	0.400	-3.464	30.0
Fluoranthene	1.582	1.563	0.400	-1.2333	30.0
Pyrene	1.691	1.694	0.500	0.2109	30.0
Benzo (a) anthracene	1.342	1.314	0.400	-2.0856	30.0
Chrysene	1.543	1.574	0.400	2.0091	30.0
Benzo (b) fluoranthene	1.341	1.366	0.200	1.8219	30.0
Benzo (k) fluoranthene	1.632	1.605	0.200	-1.671	30.0
Benzo (a) pyrene	1.417	1.390	0.200	-1.9149	30.0
Indeno (1,2,3-cd) pyrene	1.871	1.864	0.200	-0.4113	30.0
Dibenzo (a,h) anthracene	1.429	1.418	0.200	-0.8025	30.0
Benzo (g,h,i) perylene	1.672	1.604	0.200	-4.0505	30.0
Fluoranthene-d10	1.231	1.210	0.400	-1.714	30.0
2-Methylnaphthalene-d10	0.553	0.553	0.300	0.0019	30.0

All other compounds must meet a minimum RRF of 0.010.



Report of Analysis

Client:

Project:

Client Sample ID:

Lab Sample ID:

Analytical Method:

Sample Wt/Vol:

Soil Aliquot Vol:

Extraction Type :

Injection Volume :

Units:

uL

Decanted :

GPC Factor :

Date Collected:

Date Received:

SDG No.:

Matrix:

Final Vol:

Test:

Level :

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.: BN031524

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.: BN031524

SAS No.: BN031524

SDG No.: BN031524

Instrument ID: _____

Calibration Date(s): 3/14/2024 : _____

Calibration Time(s): 19:12 _____

LAB FILE ID:		RRFAL1 = BN030403.D			RRFAL2 = BN030404.D		RRFAL3 = BN030405.D	
		RRFAL4 = BN030406.D			RRFAL5 = BN030407.D		RRFAL6 = BN030408.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.623	0.510	0.515	0.496	0.511	0.531	9.7
1,4-Dioxane-d8		0.537	0.476	0.492	0.461	0.473	0.488	6.1
Naphthalene	1.091	1.079	1.073	1.101	1.055		1.080	1.6
1-Methylnaphthalene	0.625	0.648	0.673	0.716	0.691		0.671	5.3
2-Methylnaphthalene	0.551	0.596	0.634	0.696	0.685		0.632	9.6
Acenaphthylene	1.952	1.911	1.838	1.943	1.890		1.907	2.4
Acenaphthene	1.460	1.405	1.347	1.409	1.363		1.397	3.2
Fluorene	1.524	1.503	1.481	1.615	1.564		1.537	3.5
Pentachlorophenol		0.113	0.101	0.116	0.119	0.127	0.115	8.3
Phenanthrene	1.211	1.194	1.151	1.186	1.151		1.179	2.3
Anthracene	1.089	1.089	1.042	1.090	1.077		1.077	1.9
Fluoranthene	1.572	1.594	1.574	1.608	1.563		1.582	1.2
Pyrene	1.727	1.745	1.675	1.692	1.613		1.691	3.0
Benzo(a)anthracene	1.293	1.329	1.285	1.402	1.398		1.342	4.2
Chrysene	1.566	1.574	1.482	1.581	1.512		1.543	2.8
Benzo(b)fluoranthene	1.335	1.301	1.297	1.400	1.374		1.341	3.4
Benzo(k)fluoranthene	1.694	1.670	1.587	1.614	1.595		1.632	2.9
Benzo(a)pyrene	1.503	1.388	1.380	1.421	1.391		1.417	3.6
Indeno(1,2,3-cd)pyrene	1.892	1.874	1.820	1.895	1.876		1.871	1.6
Dibenzo(a,h)anthracene	1.395	1.424	1.395	1.464	1.467		1.429	2.5
Benzo(g,h,i)perylene	1.702	1.708	1.645	1.670	1.635		1.672	2.0
Fluoranthene-d10	1.227	1.245	1.231	1.245	1.206		1.231	1.3
2-Methylnaphthalene-d10	0.470	0.514	0.562	0.616	0.602		0.553	11.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: BN031524 SAS No.: BN031524 SDG NO.: BN031524
 EPA Sample No.: SSTD0.4246 Date Analyzed: Mar 14 2024 12:00AM
 Lab File ID: BN030405.D Time Analyzed: 22:49
 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	1755	7.608	3947	10.38	2264	14.25
UPPER LIMIT	3510	8.108	7894	10.883	4528	14.754
LOWER LIMIT	877.5	7.108	1973.5	9.883	1132	13.754
EPA SAMPLE NO.						
01 SICV201	1867	7.60	4210	10.38	2426	14.25

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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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECHLab Code: CHEM Case No.: BN031524 SAS No.: BN031524 SDG NO.: BN031524

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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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN031524 SAS No.: BN031524 SDG NO.: BN031524

EPA Sample No.: SSTD0.4246 Date Analyzed: Mar 14 2024 12:00AM

Lab File ID: BN030405.D Time Analyzed: 22:49

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	4302	17.013	3730	21.215	4309	23.422
UPPER LIMIT	8604	17.513	7460	21.715	8618	23.922
LOWER LIMIT	2151	16.513	1865	20.715	2154.5	22.922
EPA SAMPLE NO.						
01 SICV201	4856	17.01	4417	21.22	5159	23.43

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN031524 SAS No.: BN031524 SDG NO.: BN031524

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.: BN031524

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.

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN031524

SAS No.: BN031524 SDG NO.: BN031524

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



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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BN031524Lab Code: CHEMSAS No.: BN031524 SDG NO.: BN031524Lab File ID: BN030402.DDFTPP Injection Date: 03/14/2024Instrument ID: BNA_NDFTPP Injection Time: 18:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.1
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	42.8
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	43.8
197	Less than 2.0% of mass 198	0.6
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	29.3
365	Greater than 1% of mass 198	5.7
441	Present, but less than mass 443	11.8
442	Greater than 50% of mass 198	68.5
443	15.0 - 24.0% of mass 442	12.7 (18.6) 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
SSTD0.1244	SSTD0.168	BN030403.D	03/14/2024	19:12
SSTD0.2245	SSTD0.269	BN030404.D	03/14/2024	19:49
SSTD0.4246	SSTD0.470	BN030405.D	03/14/2024	20:25
SSTD0.8247	SSTD0.871	BN030406.D	03/14/2024	21:01
SSTD1.6248	SSTD1.672	BN030407.D	03/14/2024	21:37
SSTD3.2249	SSTD3.273	BN030408.D	03/14/2024	22:13
SICV201	SSTDICV0.4	BN030409.D	03/14/2024	22:49