

LAB CHRONICLE

OrderID: Q1004	OrderDate: 1/2/2025 3:42:00 PM
Client: Tetra Tech NUS, Inc.	Project: NWIRP Bethpage 112G08005-WE13
Contact: Ernie Wu	Location: M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1004-02	VPB190A-HYD-20241 231	Water			12/31/24			01/02/25
			SVOC-SIMGroup1	8270-Modified		01/03/25	01/06/25	
Q1004-05	BP-VPB-190A-GW-803 -805	Water			01/02/25			01/02/25
			SVOC-SIMGroup1	8270-Modified		01/03/25	01/06/25	





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

Hit Summary Sheet
SW-846

SDG No.: Q1004
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
			Total Svoc :			0.00			
			Total Concentration:			0.00			

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SAMPLE

DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/31/24
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/02/25
Client Sample ID:	VPB190A-HYD-20241231	SDG No.:	Q1004
Lab Sample ID:	Q1004-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035891.D	1	01/03/25 09:00	01/06/25 11:17	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.15		30 - 150		37%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.26		30 - 150		65%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1210		7.832			
1146-65-2	Naphthalene-d8	2350		10.622			
15067-26-2	Acenaphthene-d10	1160		14.469			
1517-22-2	Phenanthrene-d10	2320		17.206			
1719-03-5	Chrysene-d12	2030		21.384			
1520-96-3	Perylene-d12	2230		23.689			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/02/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/02/25
Client Sample ID:	BP-VPB-190A-GW-803-805	SDG No.:	Q1004
Lab Sample ID:	Q1004-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035892.D	1	01/03/25 09:00	01/06/25 11:52	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24	U	0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1020		7.831			
1146-65-2	Naphthalene-d8	2060		10.622			
15067-26-2	Acenaphthene-d10	1220		14.463			
1517-22-2	Phenanthrene-d10	2390		17.199			
1719-03-5	Chrysene-d12	2240		21.385			
1520-96-3	Perylene-d12	2750		23.686			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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A = Aldol-Condensation Reaction Products



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1004

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB165947BL	PB165947BL	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
PB165947BS	PB165947BS	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
PB165947BSD	PB165947BSD	2-Methylnaphthalene-d10	0.4	0.45	113		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.45	113	*	55	111
		2-Fluorobiphenyl	0.4	0.46	114	*	53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q1004-02	VPB190A-HYD-20241231	2-Methylnaphthalene-d10	0.4	0.15	37		30	150
		Fluoranthene-d10	0.4	0.26	65		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q1004-05	BP-VPB-190A-GW-803-805	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.40	99		58	132

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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.: Q1004

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035893.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB165947BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1004

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035894.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB165947BSD	1,4-Dioxane	0.4	0.42	ug/L	105	24	*		70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165947BL

Lab Name: CHEMTECH

Contract: TETRO6

Lab Code: CHEM Case No.: Q1004

SAS No.: Q1004 SDG NO.: Q1004

Lab File ID: BN035890.D

Lab Sample ID: PB165947BL

Instrument ID: BNA_N

Date Extracted: 01/03/2025

Matrix: (soil/water) Water

Date Analyzed: 01/06/2025

Level: (low/med) LOW

Time Analyzed: 10:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165947BS	PB165947BS	BN035893.D	01/06/2025
VPB190A-HYD-20241231	Q1004-02	BN035891.D	01/06/2025
BP-VPB-190A-GW-803-805	Q1004-05	BN035892.D	01/06/2025
PB165947BSD	PB165947BSD	BN035894.D	01/06/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1004 SDG NO.: Q1004

Lab File ID: BN035870.D

DFTPP Injection Date: 01/02/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	39
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	43.4
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (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
SSTDICC0.1	SSTDICC0.1	BN035871.D	01/02/2025	11:28
SSTDICC0.2	SSTDICC0.2	BN035872.D	01/02/2025	12:04
SSTDICCC0.4	SSTDICCC0.4	BN035873.D	01/02/2025	12:40
SSTDICC0.8	SSTDICC0.8	BN035874.D	01/02/2025	13:16
SSTDICC1.6	SSTDICC1.6	BN035875.D	01/02/2025	13:52
SSTDICC3.2	SSTDICC3.2	BN035876.D	01/02/2025	14:28
SSTDICC5.0	SSTDICC5.0	BN035877.D	01/02/2025	15:04

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1004 SDG NO.: Q1004

Lab File ID: BN035888.D

DFTPP Injection Date: 01/06/2025

Instrument ID: BNA_N

DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	41.3
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46
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	6.8
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.7 (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
SSTDCCC0.4	SSTDCCC0.4	BN035889.D	01/06/2025	10:05
PB165947BL	PB165947BL	BN035890.D	01/06/2025	10:41
VPB190A-HYD-20241231	Q1004-02	BN035891.D	01/06/2025	11:17
BP-VPB-190A-GW-803-805	Q1004-05	BN035892.D	01/06/2025	11:52
PB165947BS	PB165947BS	BN035893.D	01/06/2025	12:28
PB165947BSD	PB165947BSD	BN035894.D	01/06/2025	13:04
SSTDCCC0.4EC	SSTDCCC0.4	BN035895.D	01/06/2025	13:43



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: Q1004 SAS No.: Q1004 SDG NO.: Q1004
 EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/06/2025
 Lab File ID: BN035889.D Time Analyzed: 10:05
 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	1532	7.832	2905	10.62	1384	14.47
UPPER LIMIT	3064	8.332	5810	11.122	2768	14.968
LOWER LIMIT	766	7.332	1452.5	10.122	692	13.968
EPA SAMPLE NO.						
01 PB165947BL	1890	7.83	3618	10.62	1759	14.46
02 VPB190A-HYD-20241231	1206	7.83	2348	10.62	1163	14.47
03 PB165947BS	2068	7.83	4038	10.62	1913	14.46
04 BP-VPB-190A-GW-803-805	1016	7.83	2057	10.62	1217	14.46
05 PB165947BSD	1330	7.83	2636	10.62	1250	14.46

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.: Q1004 SAS No.: Q1004 SDG NO.: Q1004
 EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/06/2025
 Lab File ID: BN035889.D Time Analyzed: 10:05
 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	2666	17.206	2259	21.384	2595	23.686
UPPER LIMIT	5332	17.706	4518	21.884	5190	24.186
LOWER LIMIT	1333	16.706	1129.5	20.884	1297.5	23.186
EPA SAMPLE NO.						
01 PB165947BL	3309	17.20	2801	21.39	3280	23.69
02 VPB190A-HYD-20241231	2323	17.21	2025	21.38	2231	23.69
03 PB165947BS	3390	17.20	2688	21.39	3023	23.69
04 BP-VPB-190A-GW-803-805	2394	17.20	2243	21.39	2747	23.69
05 PB165947BSD	2246	17.20	1808	21.39	2017	23.69

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 LOWER LIMIT = -0.50 minutes of internal standard RT

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



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB165947BL	SDG No.:	Q1004
Lab Sample ID:	PB165947BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035890.D	1	01/03/25 09:00	01/06/25 10:41	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890		7.832			
1146-65-2	Naphthalene-d8	3620		10.622			
15067-26-2	Acenaphthene-d10	1760		14.463			
1517-22-2	Phenanthrene-d10	3310		17.199			
1719-03-5	Chrysene-d12	2800		21.385			
1520-96-3	Perylene-d12	3280		23.686			

U = Not Detected

LOQ = Limit of Quantitation

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J = Estimated Value

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N = Presumptive Evidence of a Compound

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB165947BS	SDG No.:	Q1004
Lab Sample ID:	PB165947BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035893.D	1	01/03/25 09:00	01/06/25 12:28	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2070	7.832				
1146-65-2	Naphthalene-d8	4040	10.622				
15067-26-2	Acenaphthene-d10	1910	14.463				
1517-22-2	Phenanthrene-d10	3390	17.199				
1719-03-5	Chrysene-d12	2690	21.385				
1520-96-3	Perylene-d12	3020	23.689				

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB165947BSD	SDG No.:	Q1004
Lab Sample ID:	PB165947BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035894.D	1	01/03/25 09:00	01/06/25 13:04	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.42		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.45		30 - 150		113%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		114%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1330		7.831			
1146-65-2	Naphthalene-d8	2640		10.621			
15067-26-2	Acenaphthene-d10	1250		14.463			
1517-22-2	Phenanthrene-d10	2250		17.198			
1719-03-5	Chrysene-d12	1810		21.385			
1520-96-3	Perylene-d12	2020		23.686			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN010225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jan 02 15:39:17 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035871.D 0.2 =BN035872.D 0.4 =BN035873.D 0.8 =BN035874.D 1.6 =BN035875.D 3.2 =BN035876.D 5.0 =BN035877.D

Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1) I 1,4-Dichlorobenzen...	-----ISTD-----								
2) 1,4-Dioxane	0.454	0.422	0.373	0.388	0.391	0.377	0.377	0.397	7.52
3) n-Nitrosodimet...	0.707	0.674	0.676	0.690	0.722	0.690	0.692	0.693	2.45
4) S 2-Fluorophenol	1.031	1.009	0.952	0.958	0.997	0.956	0.968	0.981	3.13
5) S Phenol-d6	1.351	1.255	1.180	1.197	1.215	1.163	1.170	1.219	5.44
6) bis(2-Chloroet...	1.001	0.946	0.936	0.913	0.938	0.886	0.879	0.929	4.43
7) I Naphthalene-d8	-----ISTD-----								
8) S Nitrobenzene-d5	0.346	0.307	0.296	0.302	0.319	0.317	0.330	0.317	5.48
9) Naphthalene	1.163	1.094	1.086	1.096	1.167	1.113	1.141	1.123	3.00
10) Hexachlorobuta...	0.368	0.354	0.353	0.363	0.382	0.362	0.369	0.365	2.74
11) SURR2-Methylnaphth...	0.547	0.536	0.527	0.519	0.556	0.524	0.540	0.536	2.50
12) 2-Methylnaphth...	0.691	0.654	0.685	0.680	0.731	0.701	0.722	0.695	3.75
13) I Acenaphthene-d10	-----ISTD-----								
14) S 2,4,6-Tribromo...	0.164	0.165	0.189	0.189	0.207	0.211	0.220	0.192	11.39
15) S 2-Fluorobiphenyl	1.776	1.675	1.708	1.765	1.823	1.779	1.762	1.755	2.79
16) Acenaphthylene	1.890	1.766	1.819	1.839	1.962	1.948	1.963	1.884	4.15
17) Acenaphthene	1.187	1.162	1.198	1.232	1.300	1.275	1.291	1.235	4.43
18) Fluorene	1.341	1.270	1.307	1.298	1.419	1.444	1.432	1.359	5.28
19) I Phenanthrene-d10	-----ISTD-----								
20) 4,6-Dinitro-2-...	0.058	0.066	0.067	0.069	0.076	0.076	0.074	0.069	9.51
21) 4-Bromophenyl-...	0.265	0.269	0.268	0.267	0.290	0.283	0.279	0.274	3.47
22) Hexachlorobenzene	0.393	0.369	0.356	0.362	0.394	0.373	0.371	0.374	3.93
23) Atrazine	0.169	0.191	0.176	0.171	0.198	0.190	0.193	0.184	6.36
24) Pentachlorophenol	0.141	0.101	0.118	0.122	0.143	0.148	0.153	0.132	14.40
25) Phenanthrene	1.131	1.132	1.142	1.144	1.228	1.193	1.200	1.167	3.36
26) Anthracene	0.996	0.998	1.008	1.033	1.137	1.132	1.130	1.062	6.34
27) SURRFluoranthene-d10	0.988	0.952	0.978	0.959	1.028	1.010	1.035	0.993	3.28
28) Fluoranthene	1.268	1.253	1.330	1.312	1.441	1.446	1.475	1.361	6.71
29) I Chrysene-d12	-----ISTD-----								
30) Pyrene	1.606	1.620	1.571	1.612	1.711	1.621	1.627	1.624	2.63
31) S Terphenyl-d14	0.814	0.813	0.790	0.777	0.828	0.776	0.781	0.797	2.64
32) Benzo(a)anthra...	1.379	1.382	1.344	1.407	1.461	1.427	1.466	1.410	3.19
33) Chrysene	1.484	1.458	1.441	1.451	1.541	1.478	1.471	1.475	2.24
34) Bis(2-ethylhex...	0.691	0.583	0.582	0.541	0.569	0.519	0.530	0.574	10.05
35) I Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN010225.M

36)	Indeno(1,2,3-c...	1.428	1.461	1.414	1.578	1.697	1.712	1.751	1.577	9.15
37)	Benzo(b)fluora...	1.337	1.304	1.294	1.351	1.466	1.420	1.447	1.374	5.06
38)	Benzo(k)fluora...	1.279	1.254	1.251	1.344	1.469	1.442	1.482	1.360	7.55
39) C	Benzo(a)pyrene	1.099	1.181	1.086	1.163	1.270	1.244	1.284	1.190	6.71
40)	Dibenzo(a,h)an...	1.145	1.152	1.106	1.251	1.363	1.365	1.402	1.255	9.75
41)	Benzo(g,h,i)pe...	1.335	1.316	1.245	1.407	1.490	1.501	1.530	1.403	7.72

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETRO6
 Lab Code: CHEM Case No.: Q1004 SAS No.: Q1004 SDG No.: Q1004
 Instrument ID: BNA_N Calibration Date/Time: 01/06/2025 10:05
 Lab File ID: BN035889.D Init. Calib. Date(s): 01/02/2025 01/02/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:28 15:04
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.512		-4.5	20.0
Fluoranthene-d10	0.993	0.943		-5.0	20.0
2-Fluorophenol	0.981	0.943		-3.9	20.0
Phenol-d6	1.219	1.178		-3.4	20.0
Nitrobenzene-d5	0.317	0.336		6.0	20.0
2-Fluorobiphenyl	1.755	1.764		0.5	20.0
2,4,6-Tribromophenol	0.192	0.181		-5.7	20.0
Terphenyl-d14	0.797	0.753		-5.5	20.0
1,4-Dioxane	0.397	0.401		1.0	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETRO6
 Lab Code: CHEM Case No.: Q1004 SAS No.: Q1004 SDG No.: Q1004
 Instrument ID: BNA_N Calibration Date/Time: 01/06/2025 13:43
 Lab File ID: BN035895.D Init. Calib. Date(s): 01/02/2025 01/02/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:28 15:04
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.512		-4.5	50.0
Fluoranthene-d10	0.993	0.949		-4.4	50.0
2-Fluorophenol	0.981	0.939		-4.3	50.0
Phenol-d6	1.219	1.130		-7.3	50.0
Nitrobenzene-d5	0.317	0.324		2.2	50.0
2-Fluorobiphenyl	1.755	1.775		1.1	50.0
2,4,6-Tribromophenol	0.192	0.222		15.6	50.0
Terphenyl-d14	0.797	0.761		-4.5	50.0
1,4-Dioxane	0.397	0.388		-2.3	50.0

All other compounds must meet a minimum RRF of 0.010.