

LAB CHRONICLE

OrderID:	Q1773	OrderDate:	4/10/2025 10:14:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	F11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1773-02	BP-TT190D2-GW-202 50407	Water			04/07/25			04/10/25
			SVOC-SIMGroup1	8270-Modified		04/11/25	04/11/25	
Q1773-03	BP-TT190D1-GW-202 50409	Water			04/09/25			04/10/25
			SVOC-SIMGroup1	8270-Modified		04/11/25	04/11/25	



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

Hit Summary Sheet SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-TT190D2-GW-20250407								
Q1773-02	BP-TT190D2-GW-20250 WATER	1,4-Dioxane	2.500		0.07	0.21	0.21	ug/L
		Total Svoc :		2.50				
		Total Concentration:		2.50				
Client ID : BP-TT190D1-GW-20250409								
Q1773-03	BP-TT190D1-GW-20250 WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
		Total Svoc :		2.10				
		Total Concentration:		2.10				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/07/25
Project:	CTO WE13	Date Received:	04/10/25
Client Sample ID:	BP-TT190D2-GW-20250407	SDG No.:	Q1773
Lab Sample ID:	Q1773-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN036889.D	1	04/11/25 09:20	04/11/25 21:46	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 - 150		128%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	223		7.64			
1146-65-2	Naphthalene-d8	582		10.426			
15067-26-2	Acenaphthene-d10	355		14.288			
1517-22-2	Phenanthrene-d10	872		17.033			
1719-03-5	Chrysene-d12	1200		21.233			
1520-96-3	Perylene-d12	1560		23.447			

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:	04/09/25
Project:	CTO WE13	Date Received:	04/10/25
Client Sample ID:	BP-TT190D1-GW-20250409	SDG No.:	Q1773
Lab Sample ID:	Q1773-03	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
BN036890.D	1	04/11/25 09:20	04/11/25 22:22	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	423	7.64				
1146-65-2	Naphthalene-d8	1030	10.426				
15067-26-2	Acenaphthene-d10	590	14.288				
1517-22-2	Phenanthrene-d10	1360	17.033				
1719-03-5	Chrysene-d12	1640	21.233				
1520-96-3	Perylene-d12	2050	23.447				

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167565BL	PB167565BL	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB167565BS	PB167565BS	2-Methylnaphthalene-d10	0.4	0.46	116		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB167565BSD	PB167565BSD	2-Methylnaphthalene-d10	0.4	0.44	111		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q1773-02	BP-TT190D2-GW-20250407	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.51	128		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
Q1773-03	BP-TT190D1-GW-20250409	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.37	94		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.51	128		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036891.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167565BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036892.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167565BSD	1,4-Dioxane	0.4	0.41	ug/L	103	16			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167565BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1773

SAS No.: Q1773 SDG NO.: Q1773

Lab File ID: BN036885.D

Lab Sample ID: PB167565BL

Instrument ID: BNA_N

Date Extracted: 04/11/2025

Matrix: (soil/water) Water

Date Analyzed: 04/11/2025

Level: (low/med) LOW

Time Analyzed: 19:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167565BS	PB167565BS	BN036891.D	04/11/2025
BP-TT190D2-GW-20250407	Q1773-02	BN036889.D	04/11/2025
BP-TT190D1-GW-20250409	Q1773-03	BN036890.D	04/11/2025
PB167565BSD	PB167565BSD	BN036892.D	04/11/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1773

SDG NO.: Q1773

Lab File ID: BN036872.D

DFTPP Injection Date: 04/11/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.6
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	54
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	50.2
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	6.4
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	10.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.3 (21.3) 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	BN036873.D	04/11/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036874.D	04/11/2025	12:37
SSTDICCC0.4	SSTDICCC0.4	BN036875.D	04/11/2025	13:17
SSTDICC0.8	SSTDICC0.8	BN036876.D	04/11/2025	13:53
SSTDICC1.6	SSTDICC1.6	BN036877.D	04/11/2025	14:30
SSTDICC3.2	SSTDICC3.2	BN036878.D	04/11/2025	15:06
SSTDICC5.0	SSTDICC5.0	BN036879.D	04/11/2025	15:42

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1773

SDG NO.: Q1773

Lab File ID: BN036883.D

DFTPP Injection Date: 04/11/2025

Instrument ID: BNA_N

DFTPP Injection Time: 18:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.5
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	55.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	53.5
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	6.5
275	10.0 - 60.0% of mass 198	21.7
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	10.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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	BN036884.D	04/11/2025	18:45
PB167565BL	PB167565BL	BN036885.D	04/11/2025	19:21
BP-TT190D2-GW-20250407	Q1773-02	BN036889.D	04/11/2025	21:46
BP-TT190D1-GW-20250409	Q1773-03	BN036890.D	04/11/2025	22:22
PB167565BS	PB167565BS	BN036891.D	04/11/2025	22:57
PB167565BSD	PB167565BSD	BN036892.D	04/11/2025	23:33
SSTDCCC0.4EC	SSTDCCC0.4	BN036895.D	04/12/2025	01:21

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1773 SAS No.: Q1773 SDG NO.: Q1773

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/11/2025

Lab File ID: BN036884.D Time Analyzed: 18:45

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	254	7.64	679	10.43	407	14.29
UPPER LIMIT	508	8.14	1358	10.925	814	14.788
LOWER LIMIT	127	7.14	339.5	9.925	203.5	13.788
EPA SAMPLE NO.						
01 PB167565BL	228	7.64	558	10.43	321	14.29
02 PB167565BS	208	7.64	496	10.43	321	14.29
03 PB167565BSD	383	7.64	935	10.43	512	14.29
04 BP-TT190D2-GW-20250407	223	7.64	582	10.43	355	14.29
05 BP-TT190D1-GW-20250409	423	7.64	1033	10.43	590	14.29

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.: Q1773 SAS No.: Q1773 SDG NO.: Q1773

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/11/2025

Lab File ID: BN036884.D Time Analyzed: 18:45

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	865	17.033	1015	21.233	1369	23.447
UPPER LIMIT	1730	17.533	2030	21.733	2738	23.947
LOWER LIMIT	432.5	16.533	507.5	20.733	684.5	22.947
EPA SAMPLE NO.						
01 PB167565BL	761	17.03	945	21.23	1194	23.45
02 PB167565BS	731	17.03	908	21.23	1138	23.45
03 PB167565BSD	1263	17.03	1400	21.22	1606	23.45
04 BP-TT190D2-GW-20250407	872	17.03	1197	21.23	1560	23.45
05 BP-TT190D1-GW-20250409	1355	17.03	1635	21.23	2047	23.45

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.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB167565BL		SDG No.:	Q1773
Lab Sample ID:	PB167565BL		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
BN036885.D	1	04/11/25 09:20	04/11/25 19:21	PB167565

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	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	228		7.64			
1146-65-2	Naphthalene-d8	558		10.426			
15067-26-2	Acenaphthene-d10	321		14.288			
1517-22-2	Phenanthrene-d10	761		17.033			
1719-03-5	Chrysene-d12	945		21.233			
1520-96-3	Perylene-d12	1190		23.45			

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB167565BS		SDG No.:	Q1773
Lab Sample ID:	PB167565BS		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
BN036891.D	1	04/11/25 09:20	04/11/25 22:57	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	208	7.64				
1146-65-2	Naphthalene-d8	496	10.426				
15067-26-2	Acenaphthene-d10	321	14.288				
1517-22-2	Phenanthrene-d10	731	17.033				
1719-03-5	Chrysene-d12	908	21.233				
1520-96-3	Perylene-d12	1140	23.447				

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	CTO WE13		Date Received:		
Client Sample ID:	PB167565BSD		SDG No.:	Q1773	
Lab Sample ID:	PB167565BSD		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
BN036892.D	1	04/11/25 09:20	04/11/25 23:33	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		111%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	383	7.64				
1146-65-2	Naphthalene-d8	935	10.426				
15067-26-2	Acenaphthene-d10	512	14.288				
1517-22-2	Phenanthrene-d10	1260	17.033				
1719-03-5	Chrysene-d12	1400	21.224				
1520-96-3	Perylene-d12	1610	23.445				

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-BN041125.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Apr 11 16:11:08 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036873.D 0.2 =BN036874.D 0.4 =BN036875.D 0.8 =BN036876.D 1.6 =BN036877.D 3.2 =BN036878.D 5.0 =BN036879.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		0.588	0.440	0.411	0.455	0.471	0.417	0.464	14.02
3)	n-Nitrosodimet...	1.024	1.092	1.084	0.971	1.022	1.058	0.943	1.028	5.43
4) S	2-Fluorophenol	1.000	0.941	0.965	0.920	0.892	0.981	0.888	0.941	4.61
5) S	Phenol-d6	1.315	1.199	1.198	1.134	1.147	1.263	1.166	1.203	5.40
6)	bis(2-Chloroet...	1.476	1.031	1.187	1.163	1.124	1.190	1.091	1.180	12.04
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.575	0.438	0.451	0.399	0.395	0.439	0.411	0.444	13.86
9)	Naphthalene	1.336	1.141	1.170	1.079	1.072	1.176	1.080	1.151	8.09
10)	Hexachlorobuta...	0.300	0.261	0.284	0.247	0.240	0.261	0.235	0.261	9.11
11) SURR2	Methylnaphth...	0.600	0.564	0.594	0.554	0.572	0.616	0.571	0.582	3.78
12)	2-Methylnaphth...	0.803	0.703	0.759	0.704	0.711	0.784	0.724	0.741	5.50
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.215	0.188	0.183	0.187	0.185	0.202	0.191	0.193	5.97
15) S	2-Fluorobiphenyl	2.063	1.860	2.013	1.697	1.897	2.083	1.833	1.921	7.28
16)	Acenaphthylene	1.959	1.808	1.891	1.744	1.750	1.995	1.861	1.858	5.25
17)	Acenaphthene	1.227	1.175	1.234	1.162	1.152	1.316	1.205	1.210	4.65
18)	Fluorene	1.695	1.698	1.694	1.566	1.593	1.780	1.657	1.669	4.29
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.081	0.084	0.095	0.092	0.092	0.116	0.102	0.095	12.46
21)	4-Bromophenyl-...	0.239	0.230	0.260	0.229	0.230	0.258	0.231	0.240	5.77
22)	Hexachlorobenzene	0.308	0.293	0.310	0.262	0.261	0.288	0.263	0.284	7.64
23)	Atrazine	0.237	0.233	0.263	0.221	0.223	0.245	0.218	0.234	6.76
24)	Pentachlorophenol	0.153	0.154	0.162	0.130	0.134	0.160	0.149	0.149	8.32
25)	Phenanthrene	1.233	1.093	1.298	1.139	1.149	1.300	1.183	1.199	6.70
26)	Anthracene	1.033	0.999	1.150	0.991	1.036	1.182	1.094	1.069	6.97
27) SURR	Fluoranthene-d10	1.100	1.059	1.221	1.044	1.091	1.226	1.148	1.127	6.53
28)	Fluoranthene	1.448	1.405	1.606	1.395	1.463	1.677	1.570	1.509	7.21
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.488	1.512	1.604	1.477	1.469	1.582	1.451	1.512	3.88
31) S	Terphenyl-d14	0.743	0.751	0.815	0.741	0.739	0.802	0.730	0.760	4.45
32)	Benzo(a)anthra...	1.361	1.371	1.410	1.354	1.402	1.552	1.443	1.413	4.87
33)	Chrysene	1.436	1.567	1.669	1.519	1.553	1.641	1.517	1.558	5.06
34)	Bis(2-ethylhex...	1.205	1.197	1.023	0.957	0.990	1.022	0.947	1.049	10.29
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN041125.M

36)	Indeno(1,2,3-c...	1.781	1.803	2.021	1.816	1.925	2.099	1.919	1.909	6.24
37)	Benzo(b)fluora...	1.373	1.278	1.523	1.355	1.376	1.572	1.456	1.419	7.26
38)	Benzo(k)fluora...	1.486	1.302	1.482	1.370	1.384	1.545	1.452	1.432	5.83
39) C	Benzo(a)pyrene	1.121	1.154	1.345	1.204	1.226	1.378	1.279	1.244	7.66
40)	Dibenzo(a,h)an...	1.331	1.416	1.585	1.487	1.560	1.680	1.552	1.516	7.61
41)	Benzo(g,h,i)pe...	1.646	1.673	1.805	1.634	1.724	1.835	1.678	1.714	4.59

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1773 SAS No.: Q1773 SDG No.: Q1773

Instrument ID: BNA_N Calibration Date/Time: 04/11/2025 18:45

Lab File ID: BN036884.D Init. Calib. Date(s): 04/11/2025 04/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:42

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.582	0.596		2.4	20.0
Fluoranthene-d10	1.127	1.290		14.5	20.0
2-Fluorophenol	0.941	0.980		4.1	20.0
Phenol-d6	1.203	1.244		3.4	20.0
Nitrobenzene-d5	0.444	0.442		-0.4	20.0
2-Fluorobiphenyl	1.921	2.017		5.0	20.0
2,4,6-Tribromophenol	0.193	0.204		5.7	20.0
Terphenyl-d14	0.760	0.770		1.3	20.0
1,4-Dioxane	0.464	0.386		-16.8	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1773 SAS No.: Q1773 SDG No.: Q1773

Instrument ID: BNA_N Calibration Date/Time: 04/12/2025 01:21

Lab File ID: BN036895.D Init. Calib. Date(s): 04/11/2025 04/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:42

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.582	0.635		9.1	50.0
Fluoranthene-d10	1.127	1.234		9.5	50.0
2-Fluorophenol	0.941	1.009		7.2	50.0
Phenol-d6	1.203	1.179		-2.0	50.0
Nitrobenzene-d5	0.444	0.413		-7.0	50.0
2-Fluorobiphenyl	1.921	1.956		1.8	50.0
2,4,6-Tribromophenol	0.193	0.212		9.8	50.0
Terphenyl-d14	0.760	0.765		0.7	50.0
1,4-Dioxane	0.464	0.513		10.6	50.0

All other compounds must meet a minimum RRF of 0.010.