

LAB CHRONICLE

OrderID:	Q1500	OrderDate:	3/5/2025 2:13:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	I21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1500-01	RE114D2-20250304	Water	SVOC-SIMGroup1	8270-Modified	03/04/25	03/07/25	03/07/25	03/05/25
Q1500-02	MW178S-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/07/25	03/07/25	03/05/25
Q1500-03	MW178I-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/07/25	03/07/25	03/05/25
Q1500-04	MW178I1-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/07/25	03/07/25	03/05/25
Q1500-05	MW179D1-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/07/25	03/07/25	03/05/25
Q1500-06	MW179D2-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/07/25	03/07/25	03/05/25
Q1500-07	MW179D-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/07/25	03/07/25	03/05/25

Hit Summary Sheet SW-846

SDG No.: Q1500

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE114D2-20250304									
Q1500-01	RE114D2-20250304	WATER	1,4-Dioxane	4.500		0.07	0.2	0.2	ug/L
			Total Svoc :			4.50			
			Total Concentration:			4.50			
Client ID : MW178S-20250305									
Q1500-02	MW178S-20250305	WATER	1,4-Dioxane	0.170	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.17			
			Total Concentration:			0.17			
Client ID : MW178I-20250305									
Q1500-03	MW178I-20250305	WATER	1,4-Dioxane	0.220	J	0.08	0.23	0.23	ug/L
			Total Svoc :			0.22			
			Total Concentration:			0.22			
Client ID : MW178I1-20250305									
Q1500-04	MW178I1-20250305	WATER	1,4-Dioxane	1.100		0.08	0.22	0.22	ug/L
			Total Svoc :			1.10			
			Total Concentration:			1.10			
Client ID : MW179D1-20250305									
Q1500-05	MW179D1-20250305	WATER	1,4-Dioxane	0.350		0.08	0.24	0.24	ug/L
			Total Svoc :			0.35			
			Total Concentration:			0.35			
Client ID : MW179D2-20250305									
Q1500-06	MW179D2-20250305	WATER	1,4-Dioxane	0.970		0.07	0.2	0.2	ug/L
			Total Svoc :			0.97			
			Total Concentration:			0.97			
Client ID : MW179D-20250305									
Q1500-07	MW179D-20250305	WATER	1,4-Dioxane	0.280		0.08	0.23	0.23	ug/L
			Total Svoc :			0.28			
			Total Concentration:			0.28			



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/04/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25
Client Sample ID:	RE114D2-20250304		SDG No.:	Q1500
Lab Sample ID:	Q1500-01		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
BN036546.D	1	03/07/25 08:21	03/07/25 14:24	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.52	*	53 - 106		129%	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	1940		7.724			
1146-65-2	Naphthalene-d8	4300		10.52			
15067-26-2	Acenaphthene-d10	2680		14.366			
1517-22-2	Phenanthrene-d10	5590		17.111			
1719-03-5	Chrysene-d12	4710		21.295			
1520-96-3	Perylene-d12	4460		23.554			

U = Not Detected

LOQ = Limit of Quantitation

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25
Client Sample ID:	MW178S-20250305		SDG No.:	Q1500
Lab Sample ID:	Q1500-02		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
BN036547.D	1	03/07/25 08:21	03/07/25 15:00	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.17	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.724				
1146-65-2	Naphthalene-d8	4930	10.519				
15067-26-2	Acenaphthene-d10	3100	14.366				
1517-22-2	Phenanthrene-d10	6460	17.111				
1719-03-5	Chrysene-d12	5940	21.295				
1520-96-3	Perylene-d12	5630	23.551				

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Client:	AECOM Technical Services, Inc.		Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25
Client Sample ID:	MW178I-20250305		SDG No.:	Q1500
Lab Sample ID:	Q1500-03		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	870	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
BN036548.D	1	03/07/25 08:21	03/07/25 15:36	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	J	0.080	0.23	0.23	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		114%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1910	7.731				
1146-65-2	Naphthalene-d8	4450	10.519				
15067-26-2	Acenaphthene-d10	2760	14.366				
1517-22-2	Phenanthrene-d10	5660	17.111				
1719-03-5	Chrysene-d12	4850	21.304				
1520-96-3	Perylene-d12	4440	23.551				

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/05/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25	
Client Sample ID:	MW17811-20250305		SDG No.:	Q1500	
Lab Sample ID:	Q1500-04		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	890	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
BN036549.D	1	03/07/25 08:21	03/07/25 16:13	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.10		0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.53	*	53 - 106		132%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1820		7.724			
1146-65-2	Naphthalene-d8	4190		10.52			
15067-26-2	Acenaphthene-d10	2630		14.366			
1517-22-2	Phenanthrene-d10	5420		17.111			
1719-03-5	Chrysene-d12	4610		21.295			
1520-96-3	Perylene-d12	4280		23.554			

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Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25	
Client Sample ID:	MW179D1-20250305		SDG No.:	Q1500	
Lab Sample ID:	Q1500-05		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
BN036550.D	1	03/07/25 08:21	03/07/25 16:49	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.54	*	53 - 106		135%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.73	*	58 - 132		183%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1770		7.732			
1146-65-2	Naphthalene-d8	4080		10.52			
15067-26-2	Acenaphthene-d10	2480		14.366			
1517-22-2	Phenanthrene-d10	5160		17.111			
1719-03-5	Chrysene-d12	4380		21.295			
1520-96-3	Perylene-d12	4010		23.554			

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Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25
Client Sample ID:	MW179D2-20250305		SDG No.:	Q1500
Lab Sample ID:	Q1500-06		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
BN036551.D	1	03/07/25 08:21	03/07/25 17:25	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.97		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.50	*	53 - 106		126%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	58 - 132		162%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1790		7.724			
1146-65-2	Naphthalene-d8	4020		10.52			
15067-26-2	Acenaphthene-d10	2520		14.366			
1517-22-2	Phenanthrene-d10	5220		17.111			
1719-03-5	Chrysene-d12	4350		21.304			
1520-96-3	Perylene-d12	3880		23.554			

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Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/05/25	
Client Sample ID:	MW179D-20250305		SDG No.:	Q1500	
Lab Sample ID:	Q1500-07		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	870	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
BN036552.D	1	03/07/25 08:21	03/07/25 18:01	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		0.080	0.23	0.23	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 - 150		125%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.61	*	53 - 106		152%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.66	*	58 - 132		166%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1750		7.724			
1146-65-2	Naphthalene-d8	4180		10.519			
15067-26-2	Acenaphthene-d10	2580		14.366			
1517-22-2	Phenanthrene-d10	5310		17.111			
1719-03-5	Chrysene-d12	4910		21.295			
1520-96-3	Perylene-d12	4120		23.557			

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QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1500

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167026BL	PB167026BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.40	101		30	150
		Nitrobenzene-d5	0.4	0.39	98		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.45	111		58	132
PB167026BS	PB167026BS	2-Methylnaphthalene-d10	0.4	0.51	127		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.62	155	*	53	106
		Terphenyl-d14	0.4	0.47	118		58	132
PB167026BSD	PB167026BSD	2-Methylnaphthalene-d10	0.4	0.52	131		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.42	106		55	111
		2-Fluorobiphenyl	0.4	0.63	157	*	53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q1500-01	RE114D2-20250304	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.52	129	*	53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
Q1500-02	MW178S-20250305	2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q1500-03	MW178I-20250305	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.46	114	*	53	106
		Terphenyl-d14	0.4	0.48	120		58	132
Q1500-04	MW178I1-20250305	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.53	132	*	53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
Q1500-05	MW179D1-20250305	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.54	135	*	53	106
		Terphenyl-d14	0.4	0.73	183	*	58	132
Q1500-06	MW179D2-20250305	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.50	126	*	53	106
		Terphenyl-d14	0.4	0.65	162	*	58	132
Q1500-07	MW179D-20250305	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.50	125		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.61	152	*	53	106
		Terphenyl-d14	0.4	0.66	166	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1500

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036553.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167026BS	1,4-Dioxane	0.4	0.39	ug/L	98				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1500

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036554.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167026BSD	1,4-Dioxane	0.4	0.40	ug/L	100	3			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167026BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q1500

SAS No.: Q1500 SDG NO.: Q1500

Lab File ID: BN036545.D

Lab Sample ID: PB167026BL

Instrument ID: BNA_N

Date Extracted: 03/07/2025

Matrix: (soil/water) Water

Date Analyzed: 03/07/2025

Level: (low/med) LOW

Time Analyzed: 13:48

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167026BS	PB167026BS	BN036553.D	03/07/2025
RE114D2-20250304	Q1500-01	BN036546.D	03/07/2025
MW178S-20250305	Q1500-02	BN036547.D	03/07/2025
MW178I-20250305	Q1500-03	BN036548.D	03/07/2025
PB167026BSD	PB167026BSD	BN036554.D	03/07/2025
MW178I1-20250305	Q1500-04	BN036549.D	03/07/2025
MW179D1-20250305	Q1500-05	BN036550.D	03/07/2025
MW179D2-20250305	Q1500-06	BN036551.D	03/07/2025
MW179D-20250305	Q1500-07	BN036552.D	03/07/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q1500

SDG NO.: Q1500

Lab File ID: BN036408.D

DFTPP Injection Date: 02/10/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
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	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.1) 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	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q1500

SDG NO.: Q1500

Lab File ID: BN036543.D

DFTPP Injection Date: 03/07/2025

Instrument ID: BNA_N

DFTPP Injection Time: 12:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	59.1
68	Less than 2.0% of mass 69	0.3 (0.6) 1
69	Mass 69 relative abundance	53
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	50.6
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	7
275	10.0 - 60.0% of mass 198	25.7
365	Greater than 1% of mass 198	3.8
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	10.4 (20.2) 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
SSTDCCC0.4	SSTDCCC0.4	BN036544.D	03/07/2025	13:00
PB167026BL	PB167026BL	BN036545.D	03/07/2025	13:48
RE114D2-20250304	Q1500-01	BN036546.D	03/07/2025	14:24
MW178S-20250305	Q1500-02	BN036547.D	03/07/2025	15:00
MW178I-20250305	Q1500-03	BN036548.D	03/07/2025	15:36
MW178I1-20250305	Q1500-04	BN036549.D	03/07/2025	16:13
MW179D1-20250305	Q1500-05	BN036550.D	03/07/2025	16:49
MW179D2-20250305	Q1500-06	BN036551.D	03/07/2025	17:25
MW179D-20250305	Q1500-07	BN036552.D	03/07/2025	18:01
PB167026BS	PB167026BS	BN036553.D	03/07/2025	18:37
PB167026BSD	PB167026BSD	BN036554.D	03/07/2025	19:14
SSTDCCC0.4EC	SSTDCCC0.4	BN036555.D	03/07/2025	19:50

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1500 SAS No.: Q1500 SDG NO.: Q1500

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/07/2025

Lab File ID: BN036544.D Time Analyzed: 13:00

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	2418	7.724	5958	10.51	3824	14.37
UPPER LIMIT	4836	8.224	11916	11.009	7648	14.866
LOWER LIMIT	1209	7.224	2979	10.009	1912	13.866
EPA SAMPLE NO.						
01 PB167026BL	2367	7.73	5026	10.53	2916	14.38
02 RE114D2-20250304	1944	7.72	4298	10.52	2675	14.37
03 MW178S-20250305	2158	7.72	4932	10.52	3103	14.37
04 MW178I-20250305	1905	7.73	4445	10.52	2762	14.37
05 MW178I1-20250305	1821	7.72	4192	10.52	2633	14.37
06 MW179D1-20250305	1774	7.73	4075	10.52	2479	14.37
07 PB167026BS	2077	7.72	4775	10.52	2621	14.37
08 PB167026BSD	1849	7.72	4193	10.52	2290	14.37
09 MW179D2-20250305	1786	7.72	4024	10.52	2522	14.37
10 MW179D-20250305	1752	7.72	4178	10.52	2575	14.37

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.: Q1500 SAS No.: Q1500 SDG NO.: Q1500

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/07/2025

Lab File ID: BN036544.D Time Analyzed: 13:00

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	7611	17.111	6524	21.295	6128	23.552
UPPER LIMIT	15222	17.611	13048	21.795	12256	24.052
LOWER LIMIT	3805.5	16.611	3262	20.795	3064	23.052
EPA SAMPLE NO.						
01 PB167026BL	5638	17.12	4494	21.30	4150	23.56
02 RE114D2-20250304	5594	17.11	4707	21.30	4459	23.55
03 MW178S-20250305	6461	17.11	5937	21.30	5628	23.55
04 MW178I-20250305	5661	17.11	4847	21.30	4437	23.55
05 MW178I1-20250305	5418	17.11	4614	21.30	4276	23.55
06 MW179D1-20250305	5157	17.11	4384	21.30	4009	23.55
07 PB167026BS	5220	17.11	3998	21.30	3574	23.56
08 PB167026BSD	4467	17.11	3434	21.30	3064	23.56
09 MW179D2-20250305	5219	17.11	4347	21.30	3883	23.55
10 MW179D-20250305	5313	17.11	4908	21.30	4119	23.56

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:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB167026BL		SDG No.:	Q1500
Lab Sample ID:	PB167026BL		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
BN036545.D	1	03/07/25 08:21	03/07/25 13:48	PB167026

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	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		98%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2370	7.725				
1146-65-2	Naphthalene-d8	5030	10.53				
15067-26-2	Acenaphthene-d10	2920	14.377				
1517-22-2	Phenanthrene-d10	5640	17.124				
1719-03-5	Chrysene-d12	4490	21.304				
1520-96-3	Perylene-d12	4150	23.563				

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:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB167026BS		SDG No.:	Q1500
Lab Sample ID:	PB167026BS		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
BN036553.D	1	03/07/25 08:21	03/07/25 18:37	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.39		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.51		30 - 150		127%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.62	*	53 - 106		155%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2080	7.724				
1146-65-2	Naphthalene-d8	4780	10.52				
15067-26-2	Acenaphthene-d10	2620	14.366				
1517-22-2	Phenanthrene-d10	5220	17.111				
1719-03-5	Chrysene-d12	4000	21.304				
1520-96-3	Perylene-d12	3570	23.56				

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:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB167026BSD		SDG No.:	Q1500
Lab Sample ID:	PB167026BSD		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
BN036554.D	1	03/07/25 08:21	03/07/25 19:14	PB167026

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.52		30 - 150		131%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.63	*	53 - 106		157%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850	7.724				
1146-65-2	Naphthalene-d8	4190	10.519				
15067-26-2	Acenaphthene-d10	2290	14.366				
1517-22-2	Phenanthrene-d10	4470	17.111				
1719-03-5	Chrysene-d12	3430	21.304				
1520-96-3	Perylene-d12	3060	23.56				

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-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3)	n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4) S	2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5) S	Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6)	bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9)	Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10)	Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11) SURR	2-Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12)	2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15) S	2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16)	Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17)	Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18)	Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21)	4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22)	Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23)	Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24)	Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25)	Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26)	Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27) SURR	Fluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28)	Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31) S	Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32)	Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33)	Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34)	Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN021025.M

36)	Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)	Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)	Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39) C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)	Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)	Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1500 SAS No.: Q1500 SDG No.: Q1500

Instrument ID: BNA_N Calibration Date/Time: 03/07/2025 13:00

Lab File ID: BN036544.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.511		-16.9	20.0
Fluoranthene-d10	1.112	0.969		-12.9	20.0
2-Fluorophenol	0.945	0.804		-14.9	20.0
Phenol-d6	1.109	0.971		-12.4	20.0
Nitrobenzene-d5	0.395	0.366		-7.3	20.0
2-Fluorobiphenyl	1.504	1.809		20.3	20.0
2,4,6-Tribromophenol	0.198	0.139		-29.8	20.0
Terphenyl-d14	0.854	0.754		-11.7	20.0
1,4-Dioxane	0.438	0.403		-8.0	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1500 SAS No.: Q1500 SDG No.: Q1500

Instrument ID: BNA_N Calibration Date/Time: 03/07/2025 19:50

Lab File ID: BN036555.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.509		-17.2	50.0
Fluoranthene-d10	1.112	0.957		-13.9	50.0
2-Fluorophenol	0.945	0.809		-14.4	50.0
Phenol-d6	1.109	0.968		-12.7	50.0
Nitrobenzene-d5	0.395	0.370		-6.3	50.0
2-Fluorobiphenyl	1.504	1.821		21.0	50.0
2,4,6-Tribromophenol	0.198	0.146		-26.3	50.0
Terphenyl-d14	0.854	0.783		-8.3	50.0
1,4-Dioxane	0.438	0.396		-9.6	50.0

All other compounds must meet a minimum RRF of 0.010.