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

LAB CHRONICLE

OrderID:	P4852	**OrderDate:**	11/14/2024 11:23:00 AM
Client:	Kleinfelder	**Project:**	Webster School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4852-01	**COMP-1**	**SOIL**			**11/13/24**			**11/14/24**
			SVOCMS Group1	8270E		11/15/24	11/19/24	
P4852-02	**COMP-2**	**SOIL**			**11/13/24**			**11/14/24**
			SVOCMS Group1	8270E		11/15/24	11/19/24	
P4852-03	**COMP-3**	**SOIL**			**11/13/24**			**11/14/24**
			SVOCMS Group1	8270E		11/15/24	11/19/24	

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Hit Summary Sheet
SW-846

SDG No.: P4852

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-1								
P4852-01	COMP-1	SOIL	Phenanthrene	130.000	J	100	200	ug/Kg
P4852-01	COMP-1	SOIL	Pyrene	170.000	J	99.6	200	ug/Kg
			Total Svoc :	**300.00**				
			Total Concentration:	**300.00**				
Client ID : COMP-2								
P4852-02	COMP-2	SOIL	Phenanthrene	550.000		100	210	ug/Kg
P4852-02	COMP-2	SOIL	Anthracene	130.000	J	100	210	ug/Kg
P4852-02	COMP-2	SOIL	Pyrene	640.000		100	210	ug/Kg
P4852-02	COMP-2	SOIL	Benzo(a)anthracene	360.000		99	210	ug/Kg
P4852-02	COMP-2	SOIL	Chrysene	330.000		97.5	210	ug/Kg
P4852-02	COMP-2	SOIL	Benzo(b)fluoranthene	340.000		99.5	210	ug/Kg
P4852-02	COMP-2	SOIL	Benzo(a)pyrene	320.000		110	210	ug/Kg
P4852-02	COMP-2	SOIL	Benzo(g,h,i)perylene	150.000	J	98.2	210	ug/Kg
			Total Svoc :	**2,820.00**				
			Total Concentration:	**2,820.00**				
Client ID : COMP-3								
P4852-03	COMP-3	SOIL	Phenanthrene	150.000	J	94.9	190	ug/Kg
P4852-03	COMP-3	SOIL	Pyrene	240.000		93.8	190	ug/Kg
P4852-03	COMP-3	SOIL	Benzo(a)anthracene	140.000	J	91.2	190	ug/Kg
P4852-03	COMP-3	SOIL	Chrysene	140.000	J	89.8	190	ug/Kg
P4852-03	COMP-3	SOIL	Benzo(b)fluoranthene	150.000	J	91.7	190	ug/Kg
P4852-03	COMP-3	SOIL	Benzo(a)pyrene	130.000	J	110	190	ug/Kg
			Total Svoc :	**950.00**				
			Total Concentration:	**950.00**				

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-1			SDG No.:	P4852
Lab Sample ID:	P4852-01			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	83.2
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140468.D	1	11/15/24 09:30	11/19/24 12:54	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	100	U	100	200	ug/Kg
91-20-3	Naphthalene	99.1	U	99.1	200	ug/Kg
86-73-7	Fluorene	100	U	100	200	ug/Kg
85-01-8	Phenanthrene	130	J	100	200	ug/Kg
120-12-7	Anthracene	100	U	100	200	ug/Kg
129-00-0	Pyrene	170	J	99.6	200	ug/Kg
56-55-3	Benzo(a)anthracene	96.9	U	96.9	200	ug/Kg
218-01-9	Chrysene	95.4	U	95.4	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	97.3	U	97.3	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.1	U	96.1	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	54.8		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.2		20 - 109	56%	SPK: 100
1718-51-0	Terphenyl-d14	56.9		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.869			
1146-65-2	Naphthalene-d8	580000	8.151			
15067-26-2	Acenaphthene-d10	319000	9.904			
1517-22-2	Phenanthrene-d10	582000	11.392			
1719-03-5	Chrysene-d12	316000	14.051			
1520-96-3	Perylene-d12	288000	15.568			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-1			SDG No.:	P4852
Lab Sample ID:	P4852-01			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	83.2
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140468.D	1	11/15/24 09:30	11/19/24 12:54	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-2			SDG No.:	P4852
Lab Sample ID:	P4852-02			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	81.4
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140469.D	1	11/15/24 09:30	11/19/24 13:21	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	100	U	100	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
85-01-8	Phenanthrene	550		100	210	ug/Kg
120-12-7	Anthracene	130	J	100	210	ug/Kg
129-00-0	Pyrene	640		100	210	ug/Kg
56-55-3	Benzo(a)anthracene	360		99.0	210	ug/Kg
218-01-9	Chrysene	330		97.5	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	340		99.5	210	ug/Kg
50-32-8	Benzo(a)pyrene	320		110	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	J	98.2	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.0		18 - 107	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.5		20 - 109	68%	SPK: 100
1718-51-0	Terphenyl-d14	70.8		10 - 105	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	149000	6.869			
1146-65-2	Naphthalene-d8	570000	8.151			
15067-26-2	Acenaphthene-d10	315000	9.904			
1517-22-2	Phenanthrene-d10	555000	11.398			
1719-03-5	Chrysene-d12	289000	14.051			
1520-96-3	Perylene-d12	281000	15.562			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-2			SDG No.:	P4852
Lab Sample ID:	P4852-02			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	81.4
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140469.D	1	11/15/24 09:30	11/19/24 13:21	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-3			SDG No.:	P4852
Lab Sample ID:	P4852-03			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.4
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140470.D	1	11/15/24 09:30	11/19/24 13:47	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	95.6	U	95.6	190	ug/Kg
91-20-3	Naphthalene	93.3	U	93.3	190	ug/Kg
86-73-7	Fluorene	96.6	U	96.6	190	ug/Kg
85-01-8	Phenanthrene	150	J	94.9	190	ug/Kg
120-12-7	Anthracene	95.4	U	95.4	190	ug/Kg
129-00-0	Pyrene	240		93.8	190	ug/Kg
56-55-3	Benzo(a)anthracene	140	J	91.2	190	ug/Kg
218-01-9	Chrysene	140	J	89.8	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	J	91.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	130	J	110	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.5	U	90.5	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	83.1		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.4		20 - 109	82%	SPK: 100
1718-51-0	Terphenyl-d14	89.5		10 - 105	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	153000	6.869			
1146-65-2	Naphthalene-d8	580000	8.151			
15067-26-2	Acenaphthene-d10	312000	9.904			
1517-22-2	Phenanthrene-d10	554000	11.398			
1719-03-5	Chrysene-d12	282000	14.045			
1520-96-3	Perylene-d12	284000	15.545			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-3			SDG No.:	P4852
Lab Sample ID:	P4852-03			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.4
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140470.D	1	11/15/24 09:30	11/19/24 13:47	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4852-01	COMP-1	Nitrobenzene-d5	100	54.8	55		18	107
		2-Fluorobiphenyl	100	56.2	56		20	109
		Terphenyl-d14	100	56.9	57		10	105
P4852-02	COMP-2	Nitrobenzene-d5	100	69.0	69		18	107
		2-Fluorobiphenyl	100	68.5	68		20	109
		Terphenyl-d14	100	70.8	71		10	105
P4852-03	COMP-3	Nitrobenzene-d5	100	83.1	83		18	107
		2-Fluorobiphenyl	100	82.4	82		20	109
		Terphenyl-d14	100	89.5	90		10	105
P4852-03MS	COMP-3MS	Nitrobenzene-d5	100	79.2	79		18	107
		2-Fluorobiphenyl	100	78.1	78		20	109
		Terphenyl-d14	100	84.8	85		10	105
P4852-03MSD	COMP-3MSD	Nitrobenzene-d5	100	76.6	77		18	107
		2-Fluorobiphenyl	100	74.1	74		20	109
		Terphenyl-d14	100	80.4	80		10	105
PB164993BL	PB164993BL	Nitrobenzene-d5	100	82.1	82		18	107
		2-Fluorobiphenyl	100	82.1	82		20	109
		Terphenyl-d14	100	82.8	83		10	105
PB164993BS	PB164993BS	Nitrobenzene-d5	100	83.2	83		18	107
		2-Fluorobiphenyl	100	83.1	83		20	109
		Terphenyl-d14	100	99.7	100		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4852-03MS		**Client Sample ID: COMP-3MS**						**DataFile: BF140471.D**			
Isophorone	1900	0	1900	ug/Kg	100				76	122	
Naphthalene	1900	0	1800	ug/Kg	95				72	110	
Fluorene	1900	0	1800	ug/Kg	95				68	116	
Phenanthrene	1900	150	2000	ug/Kg	97				52	128	
Anthracene	1900	0	2000	ug/Kg	105				62	124	
Pyrene	1900	240	2200	ug/Kg	103				26	142	
Benzo(a)anthracene	1900	140	2100	ug/Kg	103				71	114	
Chrysene	1900	140	2100	ug/Kg	103				57	121	
Benzo(b)fluoranthene	1900	150	1800	ug/Kg	87				67	121	
Benzo(a)pyrene	1900	130	2100	ug/Kg	104				70	142	
Benzo(g,h,i)perylene	1900	0	1700	ug/Kg	89				24	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4852-03MSD		**Client Sample ID: COMP-3MSD**						**DataFile: BF140472.D**			
Isophorone	1900	0	1800	ug/Kg	95		5		76	122	20
Naphthalene	1900	0	1800	ug/Kg	95		0		72	110	20
Fluorene	1900	0	1700	ug/Kg	89		7		68	116	20
Phenanthrene	1900	150	1900	ug/Kg	92		5		52	128	20
Anthracene	1900	0	1900	ug/Kg	100		5		62	124	20
Pyrene	1900	240	2100	ug/Kg	98		5		26	142	20
Benzo(a)anthracene	1900	140	2100	ug/Kg	103		0		71	114	20
Chrysene	1900	140	1900	ug/Kg	93		10		57	121	20
Benzo(b)fluoranthene	1900	150	1800	ug/Kg	87		0		67	121	20
Benzo(a)pyrene	1900	130	2100	ug/Kg	104		0		70	142	20
Benzo(g,h,i)perylene	1900	0	1600	ug/Kg	84		6		24	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: 8270E **DataFile:** BF140419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164993BS	Isophorone	1700	1400	ug/Kg	82				59	99	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164993BL

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: BF140418.D Lab Sample ID: PB164993BL

Instrument ID: BNA_F Date Extracted: 11/15/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/16/2024

Level: (low/med) LOW Time Analyzed: 10:02

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164993BS	PB164993BS	BF140419.D	11/16/2024
COMP-1	P4852-01	BF140468.D	11/19/2024
COMP-2	P4852-02	BF140469.D	11/19/2024
COMP-3	P4852-03	BF140470.D	11/19/2024
COMP-3MS	P4852-03MS	BF140471.D	11/19/2024
COMP-3MSD	P4852-03MSD	BF140472.D	11/19/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P4852 SDG NO.: P4852

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.8) 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
SSTDICC2.5	SSTDICC2.5	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P4852 SDG NO.: P4852

Lab File ID: BF140416.D DFTPP Injection Date: 11/16/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	49
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	28.4
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.5 (18.7) 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
SSTDCCC040	SSTDCCC040	BF140417.D	11/16/2024	09:34
PB164993BL	PB164993BL	BF140418.D	11/16/2024	10:02
PB164993BS	PB164993BS	BF140419.D	11/16/2024	10:28

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P4852 SDG NO.: P4852

Lab File ID: BF140462.D DFTPP Injection Date: 11/19/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.9
197	Less than 2.0% of mass 198	0.8
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	27.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (18.5) 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
SSTDCCC040	SSTDCCC040	BF140463.D	11/19/2024	10:34
COMP-1	P4852-01	BF140468.D	11/19/2024	12:54
COMP-2	P4852-02	BF140469.D	11/19/2024	13:21
COMP-3	P4852-03	BF140470.D	11/19/2024	13:47
COMP-3MS	P4852-03MS	BF140471.D	11/19/2024	14:13
COMP-3MSD	P4852-03MSD	BF140472.D	11/19/2024	14:39

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/16/2024

Lab File ID: BF140417.D Time Analyzed: 09:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	171491	6.875	639592	8.16	364979	9.92
	UPPER LIMIT	342982	7.375	1279180	8.657	729958	10.416
	LOWER LIMIT	85745.5	6.375	319796	7.657	182490	9.416
	EPA SAMPLE NO.						
01	PB164993BL	168054	6.88	642488	8.15	365710	9.91
02	PB164993BS	169538	6.88	648089	8.16	365262	9.92

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/16/2024

Lab File ID: BF140417.D Time Analyzed: 09:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	687284	11.404	387415	14.051	336604	15.545
	UPPER LIMIT	1374570	11.904	774830	14.551	673208	16.045
	LOWER LIMIT	343642	10.904	193708	13.551	168302	15.045
	EPA SAMPLE NO.						
01	PB164993BL	717042	11.40	477442	14.05	394046	15.55
02	PB164993BS	688745	11.40	378177	14.06	337908	15.55

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/19/2024

Lab File ID: BF140463.D Time Analyzed: 10:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	137275	6.875	502770	8.16	278131	9.91
	UPPER LIMIT	274550	7.375	1005540	8.657	556262	10.41
	LOWER LIMIT	68637.5	6.375	251385	7.657	139066	9.41
	EPA SAMPLE NO.						
01	COMP-1	154847	6.87	579716	8.15	318630	9.90
02	COMP-2	149238	6.87	570099	8.15	314788	9.90
03	COMP-3	152696	6.87	579902	8.15	312197	9.90
04	COMP-3MS	159273	6.88	604441	8.16	329881	9.91
05	COMP-3MSD	160639	6.88	617685	8.15	339230	9.91

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/19/2024

Lab File ID: BF140463.D Time Analyzed: 10:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	524892	11.398	344697	14.069	292973	15.592
	UPPER LIMIT	1049780	11.898	689394	14.569	585946	16.092
	LOWER LIMIT	262446	10.898	172349	13.569	146487	15.092
	EPA SAMPLE NO.						
01	COMP-1	582083	11.39	316058	14.05	288064	15.57
02	COMP-2	554705	11.40	289074	14.05	280792	15.56
03	COMP-3	553548	11.40	281611	14.05	283940	15.55
04	COMP-3MS	587430	11.40	297623	14.06	301999	15.56
05	COMP-3MSD	599763	11.40	308205	14.05	312291	15.53

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

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Webster School			Date Received:	
Client Sample ID:	PB164993BL			SDG No.:	P4852
Lab Sample ID:	PB164993BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140418.D	1	11/15/24 09:30	11/16/24 10:02	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	82.1		18 - 107	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.1		20 - 109	82%	SPK: 100
1718-51-0	Terphenyl-d14	82.8		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	168000	6.875			
1146-65-2	Naphthalene-d8	642000	8.151			
15067-26-2	Acenaphthene-d10	366000	9.91			
1517-22-2	Phenanthrene-d10	717000	11.404			
1719-03-5	Chrysene-d12	477000	14.051			
1520-96-3	Perylene-d12	394000	15.551			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Webster School			Date Received:	
Client Sample ID:	PB164993BL			SDG No.:	P4852
Lab Sample ID:	PB164993BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140418.D	1	11/15/24 09:30	11/16/24 10:02	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Webster School			Date Received:	
Client Sample ID:	PB164993BS			SDG No.:	P4852
Lab Sample ID:	PB164993BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140419.D	1	11/15/24 09:30	11/16/24 10:28	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	1400		84.5	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1500		84.3	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		92.9	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.0	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	83.2		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.1		20 - 109	83%	SPK: 100
1718-51-0	Terphenyl-d14	99.7		10 - 105	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	170000	6.875			
1146-65-2	Naphthalene-d8	648000	8.157			
15067-26-2	Acenaphthene-d10	365000	9.916			
1517-22-2	Phenanthrene-d10	689000	11.404			
1719-03-5	Chrysene-d12	378000	14.057			
1520-96-3	Perylene-d12	338000	15.545			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Webster School			Date Received:	
Client Sample ID:	PB164993BS			SDG No.:	P4852
Lab Sample ID:	PB164993BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140419.D	1	11/15/24 09:30	11/16/24 10:28	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-3MS			SDG No.:	P4852
Lab Sample ID:	P4852-03MS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.4
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140471.D	1	11/15/24 09:30	11/19/24 14:13	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	1900		95.4	190	ug/Kg
91-20-3	Naphthalene	1800		93.2	190	ug/Kg
86-73-7	Fluorene	1800		96.5	190	ug/Kg
85-01-8	Phenanthrene	2000		94.8	190	ug/Kg
120-12-7	Anthracene	2000		95.2	190	ug/Kg
129-00-0	Pyrene	2200		93.6	190	ug/Kg
56-55-3	Benzo(a)anthracene	2100		91.0	190	ug/Kg
218-01-9	Chrysene	2100		89.7	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		91.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	2100		100	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		90.4	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	79.2		18 - 107	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.1		20 - 109	78%	SPK: 100
1718-51-0	Terphenyl-d14	84.8		10 - 105	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	159000	6.875			
1146-65-2	Naphthalene-d8	604000	8.157			
15067-26-2	Acenaphthene-d10	330000	9.91			
1517-22-2	Phenanthrene-d10	587000	11.398			
1719-03-5	Chrysene-d12	298000	14.057			
1520-96-3	Perylene-d12	302000	15.563			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-3MS			SDG No.:	P4852
Lab Sample ID:	P4852-03MS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.4
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140471.D	1	11/15/24 09:30	11/19/24 14:13	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-3MSD			SDG No.:	P4852
Lab Sample ID:	P4852-03MSD			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.4
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140472.D	1	11/15/24 09:30	11/19/24 14:39	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
78-59-1	Isophorone	1800		95.5	190	ug/Kg
91-20-3	Naphthalene	1800		93.3	190	ug/Kg
86-73-7	Fluorene	1700		96.5	190	ug/Kg
85-01-8	Phenanthrene	1900		94.8	190	ug/Kg
120-12-7	Anthracene	1900		95.3	190	ug/Kg
129-00-0	Pyrene	2100		93.7	190	ug/Kg
56-55-3	Benzo(a)anthracene	2100		91.1	190	ug/Kg
218-01-9	Chrysene	1900		89.8	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		91.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	2100		100	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		90.4	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.6		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.1		20 - 109	74%	SPK: 100
1718-51-0	Terphenyl-d14	80.4		10 - 105	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	161000	6.875			
1146-65-2	Naphthalene-d8	618000	8.151			
15067-26-2	Acenaphthene-d10	339000	9.91			
1517-22-2	Phenanthrene-d10	600000	11.398			
1719-03-5	Chrysene-d12	308000	14.045			
1520-96-3	Perylene-d12	312000	15.527			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	11/13/24
Project:	Webster School			Date Received:	11/14/24
Client Sample ID:	COMP-3MSD			SDG No.:	P4852
Lab Sample ID:	P4852-03MSD			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.4
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140472.D	1	11/15/24 09:30	11/19/24 14:39	PB164993

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: BNA_F Calibration Date/Time: 11/16/2024 09:34

Lab File ID: BF140417.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.149		-1.9	
Phenol-d6	1.587	1.530		-3.6	
Nitrobenzene-d5	0.384	0.376		-2.1	
Isophorone	0.680	0.662		-2.6	
Naphthalene	1.015	1.001		-1.4	
2-Fluorobiphenyl	1.244	1.185		-4.7	
Fluorene	1.267	1.222		-3.6	
2,4,6-Tribromophenol	0.199	0.198		-0.5	
Phenanthrene	0.940	0.898		-4.5	
Anthracene	0.921	0.890		-3.4	
Pyrene	1.711	1.804		5.4	
Terphenyl-d14	1.152	1.194		3.6	
Benzo(a)anthracene	1.314	1.329		1.1	
Chrysene	1.199	1.120		-6.6	
Benzo(b)fluoranthene	1.308	1.209		-7.6	
Benzo(a)pyrene	1.016	0.999		-1.7	20.0
Benzo(g,h,i)perylene	1.044	1.054		1.0	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: BNA_F Calibration Date/Time: 11/19/2024 10:34

Lab File ID: BF140463.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.209		3.2	
Phenol-d6	1.587	1.607		1.3	
Nitrobenzene-d5	0.384	0.393		2.3	
Isophorone	0.680	0.671		-1.3	
Naphthalene	1.015	1.055		3.9	
2-Fluorobiphenyl	1.244	1.257		1.0	
Fluorene	1.267	1.293		2.1	
2,4,6-Tribromophenol	0.199	0.209		5.0	
Phenanthrene	0.940	0.946		0.6	
Anthracene	0.921	0.941		2.2	
Pyrene	1.711	1.689		-1.3	
Terphenyl-d14	1.152	1.112		-3.5	
Benzo(a)anthracene	1.314	1.336		1.7	
Chrysene	1.199	1.224		2.1	
Benzo(b)fluoranthene	1.308	1.249		-4.5	
Benzo(a)pyrene	1.016	1.051		3.4	20.0
Benzo(g,h,i)perylene	1.044	1.009		-3.4	

All other compounds must meet a minimum RRF of 0.010.