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LAB CHRONICLE

OrderID:	Q2807	**OrderDate:**	8/8/2025 10:01:00 AM
Client:	Kleinfelder	**Project:**	Girard School - PA
Contact:	Mark Warchol	**Location:**	J12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2807-01	**COMP-4**	**SOIL**			**08/07/25**			**08/08/25**
			SVOCMS Group1	8270E		08/11/25	08/12/25	
Q2807-02	**COMP-5**	**SOIL**			**08/07/25**			**08/08/25**
			SVOCMS Group1	8270E		08/11/25	08/12/25	
Q2807-03	**COMP-6**	**SOIL**			**08/07/25**			**08/08/25**
			SVOCMS Group1	8270E		08/11/25	08/12/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2807

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-5								
Q2807-02	COMP-5	SOIL	Phenanthrene	110.000	J	24.7	200	ug/Kg
Q2807-02	COMP-5	SOIL	Pyrene	120.000	J	42.5	200	ug/Kg
Q2807-02	COMP-5	SOIL	Benzo(a)anthracene	94.400	J	27.1	200	ug/Kg
Q2807-02	COMP-5	SOIL	Chrysene	89.700	J	23.5	200	ug/Kg
Q2807-02	COMP-5	SOIL	Benzo(b)fluoranthene	110.000	J	22.4	200	ug/Kg
Q2807-02	COMP-5	SOIL	Benzo(a)pyrene	85.900	J	34.8	200	ug/Kg
			Total Svoc :	**610.00**				
			Total Concentration:	**610.00**				
Client ID : COMP-6								
Q2807-03	COMP-6	SOIL	Phenanthrene	490.000		25	200	ug/Kg
Q2807-03	COMP-6	SOIL	Anthracene	100.000	J	39.8	200	ug/Kg
Q2807-03	COMP-6	SOIL	Pyrene	520.000		43	200	ug/Kg
Q2807-03	COMP-6	SOIL	Benzo(a)anthracene	380.000		27.5	200	ug/Kg
Q2807-03	COMP-6	SOIL	Chrysene	360.000		23.8	200	ug/Kg
Q2807-03	COMP-6	SOIL	Benzo(b)fluoranthene	390.000		22.7	200	ug/Kg
Q2807-03	COMP-6	SOIL	Benzo(a)pyrene	300.000		35.3	200	ug/Kg
Q2807-03	COMP-6	SOIL	Indeno(1,2,3-cd)pyrene	120.000	J	34.8	200	ug/Kg
Q2807-03	COMP-6	SOIL	Benzo(g,h,i)perylene	140.000	J	30.7	200	ug/Kg
			Total Svoc :	**2,800.00**				
			Total Concentration:	**2,800.00**				

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/07/25
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-4	SDG No.:	Q2807
Lab Sample ID:	Q2807-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.1
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
BF143355.D	1	08/11/25 09:32	08/12/25 16:02	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	27.3	U	27.3	200	ug/Kg
86-73-7	Fluorene	30.4	U	30.4	200	ug/Kg
85-01-8	Phenanthrene	25.1	U	25.1	200	ug/Kg
120-12-7	Anthracene	40.0	U	40.0	200	ug/Kg
129-00-0	Pyrene	43.2	U	43.2	200	ug/Kg
56-55-3	Benzo(a)anthracene	27.6	U	27.6	200	ug/Kg
218-01-9	Chrysene	23.9	U	23.9	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.8	U	22.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.4	U	35.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.0	U	35.0	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.9	U	30.9	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.0		18 - 107	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.4		20 - 109	68%	SPK: 100
1718-51-0	Terphenyl-d14	54.3		10 - 105	54%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	146000	6.928			
1146-65-2	Naphthalene-d8	551000	8.21			
15067-26-2	Acenaphthene-d10	273000	9.963			
1517-22-2	Phenanthrene-d10	405000	11.451			
1719-03-5	Chrysene-d12	335000	14.086			
1520-96-3	Perylene-d12	410000	15.574			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/07/25
Project:	Girard School - PA			Date Received:	08/08/25
Client Sample ID:	COMP-4			SDG No.:	Q2807
Lab Sample ID:	Q2807-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	83.1
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
BF143355.D	1	08/11/25 09:32	08/12/25 16:02	PB169189

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:	08/07/25
Project:	Girard School - PA			Date Received:	08/08/25
Client Sample ID:	COMP-5			SDG No.:	Q2807
Lab Sample ID:	Q2807-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	84.5
Sample Wt/Vol:	30.09	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
BF143354.D	1	08/11/25 09:32	08/12/25 15:33	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	26.8	U	26.8	200	ug/Kg
86-73-7	Fluorene	29.9	U	29.9	200	ug/Kg
85-01-8	Phenanthrene	110	J	24.7	200	ug/Kg
120-12-7	Anthracene	39.3	U	39.3	200	ug/Kg
129-00-0	Pyrene	120	J	42.5	200	ug/Kg
56-55-3	Benzo(a)anthracene	94.4	J	27.1	200	ug/Kg
218-01-9	Chrysene	89.7	J	23.5	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	J	22.4	200	ug/Kg
50-32-8	Benzo(a)pyrene	85.9	J	34.8	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.3	U	34.3	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.3	U	30.3	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	49.3		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.9		20 - 109	49%	SPK: 100
1718-51-0	Terphenyl-d14	38.8		10 - 105	39%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	133000	6.928			
1146-65-2	Naphthalene-d8	496000	8.21			
15067-26-2	Acenaphthene-d10	253000	9.963			
1517-22-2	Phenanthrene-d10	396000	11.451			
1719-03-5	Chrysene-d12	326000	14.086			
1520-96-3	Perylene-d12	388000	15.574			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/07/25
Project:	Girard School - PA			Date Received:	08/08/25
Client Sample ID:	COMP-5			SDG No.:	Q2807
Lab Sample ID:	Q2807-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	84.5
Sample Wt/Vol:	30.09	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
BF143354.D	1	08/11/25 09:32	08/12/25 15:33	PB169189

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

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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:	08/07/25
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-6	SDG No.:	Q2807
Lab Sample ID:	Q2807-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
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
BF143356.D	1	08/11/25 09:32	08/12/25 16:32	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
85-01-8	Phenanthrene	490		25.0	200	ug/Kg
120-12-7	Anthracene	100	J	39.8	200	ug/Kg
129-00-0	Pyrene	520		43.0	200	ug/Kg
56-55-3	Benzo(a)anthracene	380		27.5	200	ug/Kg
218-01-9	Chrysene	360		23.8	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	390		22.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	300		35.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	34.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	J	30.7	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	74.4		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.3		20 - 109	71%	SPK: 100
1718-51-0	Terphenyl-d14	55.8		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	152000	6.928			
1146-65-2	Naphthalene-d8	566000	8.21			
15067-26-2	Acenaphthene-d10	281000	9.963			
1517-22-2	Phenanthrene-d10	410000	11.451			
1719-03-5	Chrysene-d12	352000	14.086			
1520-96-3	Perylene-d12	432000	15.574			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/07/25
Project:	Girard School - PA			Date Received:	08/08/25
Client Sample ID:	COMP-6			SDG No.:	Q2807
Lab Sample ID:	Q2807-03			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	83.6
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
BF143356.D	1	08/11/25 09:32	08/12/25 16:32	PB169189

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.: Q2807

Client: Kleinfelder

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB169189BL	PB169189BL	Nitrobenzene-d5	100	95.5	96		18	107
		2-Fluorobiphenyl	100	84.7	85		20	109
		Terphenyl-d14	100	97.6	98		10	105
PB169189BS	PB169189BS	Nitrobenzene-d5	100	94.3	94		18	107
		2-Fluorobiphenyl	100	85.3	85		20	109
		Terphenyl-d14	100	87.8	88		10	105
Q2807-01	COMP-4	Nitrobenzene-d5	100	68.0	68		18	107
		2-Fluorobiphenyl	100	68.4	68		20	109
		Terphenyl-d14	100	54.3	54		10	105
Q2807-02	COMP-5	Nitrobenzene-d5	100	49.3	49		18	107
		2-Fluorobiphenyl	100	48.9	49		20	109
		Terphenyl-d14	100	38.8	39		10	105
Q2807-03	COMP-6	Nitrobenzene-d5	100	74.4	74		18	107
		2-Fluorobiphenyl	100	71.3	71		20	109
		Terphenyl-d14	100	55.8	56		10	105
Q2807-03MS	COMP-6MS	Nitrobenzene-d5	100	70.5	70		18	107
		2-Fluorobiphenyl	100	65.9	66		20	109
		Terphenyl-d14	100	53.3	53		10	105
Q2807-03MSD	COMP-6MSD	Nitrobenzene-d5	100	71.1	71		18	107
		2-Fluorobiphenyl	100	64.5	65		20	109
		Terphenyl-d14	100	59.1	59		10	105

Alliance TECHNICAL GROUP
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2807 **Analytical Method:** SW8270E

Client: Kleinfelder **DataFile:** BF143357.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2807-03MS		**Client Sample ID: COMP-6MS**									
Naphthalene	2000	0	1700	ug/Kg	85				51	121	
Fluorene	2000	0	1700	ug/Kg	85				53	118	
Phenanthrene	2000	490	2100	ug/Kg	81				52	128	
Anthracene	2000	100	1800	ug/Kg	85				62	124	
Pyrene	2000	520	1600	ug/Kg	54				37	122	
Benzo(a)anthracene	2000	380	2100	ug/Kg	86				53	119	
Chrysene	2000	360	2000	ug/Kg	82				57	121	
Benzo(b)fluoranthene	2000	390	2300	ug/Kg	96				52	117	
Benzo(a)pyrene	2000	300	2100	ug/Kg	90				70	142	
Indeno(1,2,3-cd)pyrene	2000	120	1500	ug/Kg	69				40	129	
Benzo(g,h,i)perylene	2000	140	1500	ug/Kg	68				24	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2807 **Analytical Method:** SW8270E

Client: Kleinfelder **DataFile:** BF143358.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2807-03MSD		**Client Sample ID: COMP-6MSD**									
Naphthalene	2000	0	1600	ug/Kg	80		6		51	121	20
Fluorene	2000	0	1700	ug/Kg	85		0		53	118	20
Phenanthrene	2000	490	2100	ug/Kg	81		0		52	128	20
Anthracene	2000	100	1800	ug/Kg	85		0		62	124	20
Pyrene	2000	520	1800	ug/Kg	64		17		37	122	20
Benzo(a)anthracene	2000	380	2100	ug/Kg	86		0		53	119	20
Chrysene	2000	360	2100	ug/Kg	87		6		57	121	20
Benzo(b)fluoranthene	2000	390	2300	ug/Kg	96		0		52	117	20
Benzo(a)pyrene	2000	300	2100	ug/Kg	90		0		70	142	20
Indeno(1,2,3-cd)pyrene	2000	120	1600	ug/Kg	74		7		40	129	20
Benzo(g,h,i)perylene	2000	140	1500	ug/Kg	68		0		24	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2807 **Analytical Method:** 8270E

Client: Kleinfelder **DataFile:** BF143353.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169189BS	Naphthalene	1700	1500	ug/Kg	88				62	100	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169189BL

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2807

Lab File ID: BF143352.D | Lab Sample ID: PB169189BL

Instrument ID: BNA_F | Date Extracted: 08/11/2025

Matrix: (soil/water) SOIL | Date Analyzed: 08/12/2025

Level: (low/med) LOW | Time Analyzed: 14:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169189BS	PB169189BS	BF143353.D	08/12/2025
COMP-5	Q2807-02	BF143354.D	08/12/2025
COMP-4	Q2807-01	BF143355.D	08/12/2025
COMP-6	Q2807-03	BF143356.D	08/12/2025
COMP-6MS	Q2807-03MS	BF143357.D	08/12/2025
COMP-6MSD	Q2807-03MSD	BF143358.D	08/12/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2807

Lab File ID: BF143342.D | DFTPP Injection Date: 08/12/2025

Instrument ID: BNA_F | DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	29.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.5
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 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	BF143343.D	08/12/2025	09:03
SSTDICC005	SSTDICC005	BF143344.D	08/12/2025	09:34
SSTDICC010	SSTDICC010	BF143345.D	08/12/2025	10:04
SSTDICC020	SSTDICC020	BF143346.D	08/12/2025	10:35
SSTDICCC040	SSTDICCC040	BF143347.D	08/12/2025	11:06
SSTDICC050	SSTDICC050	BF143348.D	08/12/2025	11:37
SSTDICC060	SSTDICC060	BF143349.D	08/12/2025	12:07
SSTDICC080	SSTDICC080	BF143350.D	08/12/2025	12:38
PB169189BL	PB169189BL	BF143352.D	08/12/2025	14:22
PB169189BS	PB169189BS	BF143353.D	08/12/2025	14:53
COMP-5	Q2807-02	BF143354.D	08/12/2025	15:33
COMP-4	Q2807-01	BF143355.D	08/12/2025	16:02
COMP-6	Q2807-03	BF143356.D	08/12/2025	16:32
COMP-6MS	Q2807-03MS	BF143357.D	08/12/2025	17:02
COMP-6MSD	Q2807-03MSD	BF143358.D	08/12/2025	17:32

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2807

Client ID : SSTDICCC040 Date Analyzed: 08/12/2025

Lab File ID: BF143347.D Time Analyzed: 11:06

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	167361	6.934	655032	8.21	345532	9.97
	UPPER LIMIT	334722	7.434	1310060	8.71	691064	10.469
	LOWER LIMIT	83680.5	6.434	327516	7.71	172766	9.469
	EPA SAMPLE NO.						
01	PB169189BL	164595	6.93	636089	8.21	350207	9.96
02	PB169189BS	165936	6.93	641337	8.21	345183	9.97
03	COMP-4	146370	6.93	551165	8.21	273111	9.96
04	COMP-5	133341	6.93	496028	8.21	252686	9.96
05	COMP-6	152247	6.93	565615	8.21	280798	9.96
06	COMP-6MS	156492	6.93	586819	8.21	297224	9.96
07	COMP-6MSD	182920	6.93	692344	8.21	366844	9.97

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: Alliance

Lab Code: ACE SDG NO.: Q2807

Client ID: SSTDICCC040 Date Analyzed: 08/12/2025

Lab File ID: BF143347.D Time Analyzed: 11:06

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	517467	11.451	290137	14.092	328158	15.58
	UPPER LIMIT	1034930	11.951	580274	14.592	656316	16.08
	LOWER LIMIT	258734	10.951	145069	13.592	164079	15.08
	EPA SAMPLE NO.						
01	PB169189BL	576646	11.45	343112	14.09	274972	15.58
02	PB169189BS	531787	11.45	305054	14.09	338125	15.58
03	COMP-4	405137	11.45	334879	14.09	409754	15.57
04	COMP-5	396419	11.45	326252	14.09	388136	15.57
05	COMP-6	410381	11.45	352203	14.09	431956	15.57
06	COMP-6MS	432448	11.45	390031	14.09	473134	15.58
07	COMP-6MSD	555468	11.45	416428	14.09	485253	15.58

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:	Girard School - PA			Date Received:	
Client Sample ID:	PB169189BL			SDG No.:	Q2807
Lab Sample ID:	PB169189BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
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
BF143352.D	1	08/11/25 09:32	08/12/25 14:22	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	95.5		18 - 107	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.7		20 - 109	85%	SPK: 100
1718-51-0	Terphenyl-d14	97.6		10 - 105	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	165000	6.928			
1146-65-2	Naphthalene-d8	636000	8.21			
15067-26-2	Acenaphthene-d10	350000	9.963			
1517-22-2	Phenanthrene-d10	577000	11.451			
1719-03-5	Chrysene-d12	343000	14.086			
1520-96-3	Perylene-d12	275000	15.58			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Girard School - PA			Date Received:	
Client Sample ID:	PB169189BL			SDG No.:	Q2807
Lab Sample ID:	PB169189BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
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
BF143352.D	1	08/11/25 09:32	08/12/25 14:22	PB169189

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:	Girard School - PA			Date Received:	
Client Sample ID:	PB169189BS			SDG No.:	Q2807
Lab Sample ID:	PB169189BS			Matrix:	SOIL
Analytical Method:	8270E			% 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
BF143353.D	1	08/11/25 09:32	08/12/25 14:53	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
129-00-0	Pyrene	1500		36.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	94.3		18 - 107	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.3		20 - 109	85%	SPK: 100
1718-51-0	Terphenyl-d14	87.8		10 - 105	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	166000	6.928			
1146-65-2	Naphthalene-d8	641000	8.21			
15067-26-2	Acenaphthene-d10	345000	9.969			
1517-22-2	Phenanthrene-d10	532000	11.451			
1719-03-5	Chrysene-d12	305000	14.092			
1520-96-3	Perylene-d12	338000	15.58			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Girard School - PA			Date Received:	
Client Sample ID:	PB169189BS			SDG No.:	Q2807
Lab Sample ID:	PB169189BS			Matrix:	SOIL
Analytical Method:	8270E			% 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
BF143353.D	1	08/11/25 09:32	08/12/25 14:53	PB169189

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:	08/07/25
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-6MS	SDG No.:	Q2807
Lab Sample ID:	Q2807-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
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
BF143357.D	1	08/11/25 09:32	08/12/25 17:02	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1700		27.1	200	ug/Kg
86-73-7	Fluorene	1700		30.2	200	ug/Kg
85-01-8	Phenanthrene	2100		25.0	200	ug/Kg
120-12-7	Anthracene	1800		39.8	200	ug/Kg
129-00-0	Pyrene	1600		43.0	200	ug/Kg
56-55-3	Benzo(a)anthracene	2100		27.5	200	ug/Kg
218-01-9	Chrysene	2000		23.8	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	2300		22.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	2100		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		34.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		30.7	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.5		18 - 107	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.9		20 - 109	66%	SPK: 100
1718-51-0	Terphenyl-d14	53.3		10 - 105	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	156000	6.928			
1146-65-2	Naphthalene-d8	587000	8.21			
15067-26-2	Acenaphthene-d10	297000	9.963			
1517-22-2	Phenanthrene-d10	432000	11.451			
1719-03-5	Chrysene-d12	390000	14.092			
1520-96-3	Perylene-d12	473000	15.58			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/07/25
Project:	Girard School - PA			Date Received:	08/08/25
Client Sample ID:	COMP-6MS			SDG No.:	Q2807
Lab Sample ID:	Q2807-03MS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	83.6
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
BF143357.D	1	08/11/25 09:32	08/12/25 17:02	PB169189

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:	08/07/25
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-6MSD	SDG No.:	Q2807
Lab Sample ID:	Q2807-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.07 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
BF143358.D	1	08/11/25 09:32	08/12/25 17:32	PB169189

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1600		27.1	200	ug/Kg
86-73-7	Fluorene	1700		30.2	200	ug/Kg
85-01-8	Phenanthrene	2100		24.9	200	ug/Kg
120-12-7	Anthracene	1800		39.7	200	ug/Kg
129-00-0	Pyrene	1800		43.0	200	ug/Kg
56-55-3	Benzo(a)anthracene	2100		27.4	200	ug/Kg
218-01-9	Chrysene	2100		23.7	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	2300		22.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	2100		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		34.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		30.7	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.1		18 - 107	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.5		20 - 109	65%	SPK: 100
1718-51-0	Terphenyl-d14	59.1		10 - 105	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.928			
1146-65-2	Naphthalene-d8	692000	8.21			
15067-26-2	Acenaphthene-d10	367000	9.969			
1517-22-2	Phenanthrene-d10	555000	11.451			
1719-03-5	Chrysene-d12	416000	14.092			
1520-96-3	Perylene-d12	485000	15.58			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/07/25
Project:	Girard School - PA			Date Received:	08/08/25
Client Sample ID:	COMP-6MSD			SDG No.:	Q2807
Lab Sample ID:	Q2807-03MSD			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	83.6
Sample Wt/Vol:	30.07	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
BF143358.D	1	08/11/25 09:32	08/12/25 17:32	PB169189

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-BF081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Aug 12 13:25:39 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF143343.D 5 =BF143344.D 10 =BF143345.D 20 =BF143346.D 40 =BF143347.D 50 =BF143348.D 60 =BF143349.D 80 =BF1433
50.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.606	0.582	0.614	0.596	0.592	0.612	0.586	0.598	2.12
3)		Pyridine		1.476	1.573	1.597	1.615	1.623	1.668	1.613	1.595	3.75
4)		n-Nitrosodimet...			0.686	0.711	0.759	0.762	0.776	0.764	0.743	4.80
5)	S	2-Fluorophenol		1.155	1.170	1.207	1.179	1.143	1.151	1.090	1.157	3.15
6)		Aniline		2.162	2.139	2.178	2.119	2.029	2.057	1.954	2.091	3.88
7)	S	Phenol-d6		1.527	1.505	1.541	1.500	1.447	1.475	1.386	1.483	3.58
8)		2-Chlorophenol		1.167	1.215	1.272	1.259	1.240	1.271	1.227	1.236	3.01
9)		Benzaldehyde			1.109	1.106	1.011	0.875	0.800		0.980	14.15
10)	C	Phenol		1.823	1.791	1.843	1.783	1.721	1.734	1.604	1.757	4.56
11)		bis(2-Chloroet...		1.357	1.304	1.333	1.306	1.252	1.279	1.235	1.295	3.34
12)		1,3-Dichlorobe...		1.551	1.479	1.482	1.432	1.364	1.386	1.285	1.425	6.21
13)	C	1,4-Dichlorobe...		1.576	1.510	1.485	1.414	1.370	1.366	1.294	1.431	6.82
14)		1,2-Dichlorobe...		1.486	1.416	1.407	1.347	1.295	1.309	1.247	1.358	6.09
15)		Benzyl Alcohol			0.980	1.069	1.088	1.066	1.097	1.079	1.063	3.98
16)		2,2'-oxybis(1-...		2.521	2.408	2.435	2.317	2.214	2.224	2.065	2.312	6.76
17)		2-Methylphenol		1.017	1.038	1.077	1.064	1.036	1.059	1.012	1.043	2.35
18)		Hexachloroethane		0.425	0.433	0.460	0.462	0.449	0.466	0.444	0.449	3.42
19)	P	n-Nitroso-di-n...	0.956	0.992	0.942	0.957	0.910	0.863	0.875	0.837	0.916	5.89
20)		3+4-Methylphenols			1.331	1.373	1.288	1.227	1.227	1.125	1.262	7.00
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.500	0.478	0.475	0.429	0.404	0.417	0.381	0.441	9.98
23)	S	Nitrobenzene-d5		0.277	0.304	0.339	0.336	0.328	0.341	0.324	0.321	7.17
24)		Nitrobenzene		0.322	0.329	0.366	0.359	0.352	0.367	0.347	0.349	5.02
25)		Isophorone		0.692	0.662	0.683	0.645	0.627	0.651	0.630	0.656	3.79
26)	C	2-Nitrophenol		0.069	0.085	0.109	0.126	0.134	0.151	0.150	0.118	26.89
27)		2,4-Dimethylph...		0.259	0.261	0.288	0.279	0.275	0.285	0.267	0.274	4.15
28)		bis(2-Chloroet...		0.424	0.410	0.425	0.396	0.383	0.396	0.369	0.400	5.19
29)	C	2,4-Dichloroph...		0.243	0.256	0.286	0.275	0.270	0.279	0.262	0.267	5.54
30)		1,2,4-Trichlor...		0.299	0.290	0.299	0.277	0.269	0.278	0.260	0.282	5.30
31)		Naphthalene		1.083	1.023	1.029	0.944	0.901	0.917	0.839	0.962	8.88
32)		Benzoic acid			0.069	0.085	0.108	0.120	0.136	0.142	0.110	25.83
33)		4-Chloroaniline		0.362	0.350	0.367	0.345	0.334	0.345	0.326	0.347	4.13
34)	C	Hexachlorobuta...		0.185	0.181	0.187	0.175	0.166	0.171	0.161	0.175	5.49
35)		Caprolactam			0.061	0.073	0.079	0.078	0.081	0.079	0.075	9.95
36)	C	4-Chloro-3-met...		0.270	0.274	0.296	0.286	0.279	0.286	0.270	0.280	3.54
37)		2-Methylnaphth...		0.720	0.673	0.681	0.622	0.591	0.593	0.548	0.633	9.63
38)		1-Methylnaphth...		0.690	0.654	0.653	0.595	0.568	0.574	0.531	0.609	9.38

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.588	0.566	0.575	0.542	0.524	0.537	0.499	0.547	5.66
41)	P	Hexachlorocycl...		0.088	0.130	0.167	0.172	0.192	0.201	0.158	26.72
42)	S	2,4,6-Tribromo...	0.105	0.127	0.149	0.160	0.160	0.164	0.159	0.146	15.13
43)	C	2,4,6-Trichlor...	0.242	0.272	0.316	0.334	0.328	0.343	0.338	0.311	12.43
44)		2,4,5-Trichlor...	0.307	0.308	0.366	0.377	0.364	0.370	0.361	0.351	8.48
45)	S	2-Fluorobiphenyl	1.444	1.332	1.285	1.132	1.060	1.052	0.951	1.179	15.06
46)		1,1'-Biphenyl	1.613	1.506	1.516	1.389	1.317	1.335	1.223	1.414	9.63
47)		2-Chloronaphth...	1.216	1.176	1.180	1.095	1.046	1.081	1.003	1.114	7.06
48)		2-Nitroaniline	0.188	0.223	0.279	0.309	0.321	0.336	0.330	0.284	20.23
49)		Acenaphthylene	1.759	1.682	1.719	1.588	1.525	1.541	1.444	1.608	7.13
50)		Dimethylphthalate	1.160	1.178	1.244	1.180	1.144	1.171	1.103	1.169	3.66
51)		2,6-Dinitrotol...	0.125	0.147	0.188	0.213	0.219	0.234	0.228	0.193	21.87
52)	C	Acenaphthene	1.208	1.127	1.121	1.054	1.012	1.017	0.945	1.069	8.28
53)		3-Nitroaniline	0.159	0.193	0.250	0.261	0.265	0.281	0.266	0.239	18.92
54)	P	2,4-Dinitrophenol		0.030	0.046	0.066	0.073	0.086	0.092	0.065	36.52
55)		Dibenzofuran	1.757	1.641	1.634	1.511	1.438	1.446	1.346	1.539	9.33
56)	P	4-Nitrophenol		0.096	0.147	0.173	0.180	0.194	0.190	0.163	22.52
57)		2,4-Dinitrotol...	0.154	0.191	0.257	0.289	0.296	0.308	0.297	0.256	23.42
58)		Fluorene	1.381	1.288	1.251	1.142	1.091	1.089	0.986	1.175	11.65
59)		2,3,4,6-Tetrac...	0.172	0.188	0.236	0.255	0.258	0.276	0.270	0.236	17.33
60)		Diethylphthalate	1.011	1.061	1.132	1.081	1.037	1.031	0.974	1.047	4.84
61)		4-Chlorophenyl...	0.645	0.601	0.600	0.563	0.533	0.536	0.498	0.568	8.84
62)		4-Nitroaniline	0.174	0.202	0.253	0.249	0.248	0.253	0.242	0.232	13.40
63)		Azobenzene	1.302	1.228	1.285	1.193	1.147	1.149	1.065	1.196	6.99
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.036	0.054	0.071	0.077	0.087	0.091	0.069	29.75
66)	c	n-Nitrosodiphe...	0.693	0.670	0.674	0.655	0.639	0.651	0.627	0.659	3.38
67)		4-Bromophenyl-...	0.232	0.222	0.232	0.231	0.227	0.231	0.226	0.229	1.65
68)		Hexachlorobenzene	0.258	0.249	0.250	0.244	0.237	0.248	0.240	0.247	2.76
69)		Atrazine	0.147	0.157	0.187	0.178	0.180	0.182	0.173	0.172	8.45
70)	C	Pentachlorophenol		0.058	0.087	0.108	0.113	0.120	0.122	0.101	24.06
71)		Phenanthrene	1.214	1.159	1.156	1.081	1.022	1.034	0.973	1.091	8.02
72)		Anthracene	1.225	1.168	1.184	1.088	1.043	1.057	0.980	1.107	7.97
73)		Carbazole	1.049	1.000	1.017	0.934	0.879	0.893	0.825	0.942	8.71
74)		Di-n-butylphth...	0.674	0.739	0.889	0.864	0.819	0.817	0.780	0.798	9.24
75)	C	Fluoranthene	1.120	1.054	1.051	0.917	0.873	0.856	0.820	0.956	12.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.541	0.653	0.591	0.549	0.511	0.434	0.547	13.50
78)		Pyrene	1.924	1.963	1.910	1.661	1.513	1.460	1.315	1.678	15.44
79)	S	Terphenyl-d14	1.337	1.346	1.297	1.089	0.976	0.957	0.841	1.120	18.44
80)		Butylbenzylpht...	0.179	0.208	0.272	0.303	0.320	0.346	0.359	0.284	24.15
81)		Benzo(a)anthra...	1.335	1.224	1.339	1.258	1.229	1.309	1.205	1.271	4.37
82)		3,3'-Dichlorob...		0.255	0.327	0.364	0.374	0.382	0.358	0.343	13.77
83)		Chrysene	1.270	1.249	1.199	1.175	1.163	1.143	1.098	1.185	5.06
84)		Bis(2-ethylhex...	0.228	0.277	0.348	0.441	0.478	0.520	0.531	0.403	29.82
85)	c	Di-n-octyl pht...		0.545	0.692	0.888	0.945	1.045	1.047	0.860	23.52

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86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.401	1.455	1.479	1.449	1.392	1.443	1.411	1.433	2.24
88)		Benzo(b)fluora...	1.172	1.027	1.092	1.118	1.046	1.147	1.054	1.094	4.98
89)		Benzo(k)fluora...	1.064	1.080	1.158	1.036	1.053	1.022	1.027	1.063	4.41
90)	C	Benzo(a)pyrene	1.049	1.011	1.060	1.033	1.012	1.039	1.008	1.030	1.99
91)		Dibenzo(a,h)an...	1.129	1.162	1.184	1.170	1.119	1.155	1.094	1.145	2.77
92)		Benzo(g,h,i)pe...	1.108	1.192	1.188	1.169	1.124	1.168	1.123	1.153	2.94

(#) = Out of Range