284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**B-167-SB02**								
Q1901-04	B-167-SB02	SOIL	Acetone		210		8.10	42.6	ug/Kg
Q1901-04	B-167-SB02	SOIL	Carbon Disulfide		8.30	J	1.80	8.50	ug/Kg
Q1901-04	B-167-SB02	SOIL	2-Butanone		39.9	J	11.1	42.6	ug/Kg
			Total Voc :		258				
			Total Concentration:		258				
Client ID:	**B-170-SB02**								
Q1901-05	B-170-SB02	SOIL	Carbon Disulfide		12.5		1.30	6.00	ug/Kg
Q1901-05	B-170-SB02	SOIL	Benzene		1.60	J	0.95	6.00	ug/Kg
Q1901-05	B-170-SB02	SOIL	m/p-Xylenes		2.20	J	1.50	12.1	ug/Kg
Q1901-05	B-170-SB02	SOIL	o-Xylene		1.70	J	0.99	6.00	ug/Kg
Q1901-05	B-170-SB02	SOIL	Isopropylbenzene		12.2		0.94	6.00	ug/Kg
			Total Voc :		30.2				
Q1901-05	B-170-SB02	SOIL	1,2,4-Trimethylbenzene	*	1.50	J	0.77	6.00	ug/Kg
			Total Tics :		1.50				
			Total Concentration:		31.7				
Client ID:	**FB04262025**								
Q1901-06	FB04262025	Water	Acetone		4.70	J	1.50	5.00	ug/L
			Total Voc :		4.70				
			Total Concentration:		4.70				
Client ID:	**TB04262025**								
Q1901-07	TB04262025	Water	Acetone		1.70	J	1.50	5.00	ug/L
			Total Voc :		1.70				
			Total Concentration:		1.70				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB00	SDG No.:	Q1901
Lab Sample ID:	Q1901-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.6
Sample Wt/Vol:	6.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022105.D	1		05/01/25 14:15	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.92	U	0.92	4.00	ug/Kg
74-87-3	Chloromethane	0.92	U	0.92	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.00	ug/Kg
74-83-9	Bromomethane	0.87	U	0.87	4.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.98	U	0.98	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.81	U	0.81	4.00	ug/Kg
67-64-1	Acetone	3.80	U	3.80	20.2	ug/Kg
75-15-0	Carbon Disulfide	0.86	U	0.86	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.59	U	0.59	4.00	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	4.00	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.00	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.00	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	20.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.00	ug/Kg
74-97-5	Bromochloromethane	0.93	U	0.93	4.00	ug/Kg
67-66-3	Chloroform	0.68	U	0.68	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.00	ug/Kg
71-43-2	Benzene	0.64	U	0.64	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.64	U	0.64	4.00	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.63	U	0.63	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.2	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB00	SDG No.:	Q1901
Lab Sample ID:	Q1901-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.6
Sample Wt/Vol:	6.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022105.D	1		05/01/25 14:15	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.2	ug/Kg
124-48-1	Dibromochloromethane	0.70	U	0.70	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.71	U	0.71	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.85	U	0.85	4.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.10	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.00	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.00	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.98	U	0.98	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		70 (38) - 130 (136)	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	310000	7.707			
540-36-3	1,4-Difluorobenzene	585000	8.616			
3114-55-4	Chlorobenzene-d5	519000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	196000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB00	SDG No.:	Q1901
Lab Sample ID:	Q1901-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.6
Sample Wt/Vol:	6.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022105.D	1		05/01/25 14:15	VY050125

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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	7.83 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022087.D	1		04/30/25 17:05	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	0.88	3.90	ug/Kg
74-87-3	Chloromethane	0.88	U	0.88	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.61	U	0.61	3.90	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	3.90	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.94	U	0.94	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.82	U	0.82	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.77	U	0.77	3.90	ug/Kg
67-64-1	Acetone	3.70	U	3.70	19.3	ug/Kg
75-15-0	Carbon Disulfide	0.82	U	0.82	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
110-82-7	Cyclohexane	0.61	U	0.61	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	3.90	ug/Kg
74-97-5	Bromochloromethane	0.89	U	0.89	3.90	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	3.90	ug/Kg
71-43-2	Benzene	0.61	U	0.61	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	3.90	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.70	U	0.70	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.60	U	0.60	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.3	ug/Kg
108-88-3	Toluene	0.60	U	0.60	3.90	ug/Kg

Raw Data: **VY022087.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	7.83 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022087.D	1		04/30/25 17:05	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.71	U	0.71	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.3	ug/Kg
124-48-1	Dibromochloromethane	0.67	U	0.67	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.81	U	0.81	3.90	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.96	U	0.96	7.70	ug/Kg
95-47-6	o-Xylene	0.63	U	0.63	3.90	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.90	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.60	U	0.60	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.94	U	0.94	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.1		70 (38) - 130 (136)	72%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	348000	7.707			
540-36-3	1,4-Difluorobenzene	652000	8.61			
3114-55-4	Chlorobenzene-d5	556000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	177000	13.346			

Raw Data: **VY022087.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	7.83 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022087.D	1		04/30/25 17:05	VY043025

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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	7.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022106.D	1		05/01/25 14:38	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	4.10	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.88	U	0.88	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.99	U	0.99	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.82	U	0.82	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.5	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.94	U	0.94	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.5	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	7.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022106.D	1		05/01/25 14:38	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.5	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.20	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.99	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		70 (63) - 130 (155)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	47.9		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		70 (38) - 130 (136)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	308000	7.713			
540-36-3	1,4-Difluorobenzene	584000	8.615			
3114-55-4	Chlorobenzene-d5	521000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.346			

Raw Data: VY022106.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	7.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022106.D	1		05/01/25 14:38	VY050125

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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.2
Sample Wt/Vol:	5.52 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022089.D	1		04/30/25 17:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	8.50	ug/Kg
74-87-3	Chloromethane	1.90	U	1.90	8.50	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.50	ug/Kg
74-83-9	Bromomethane	1.80	U	1.80	8.50	ug/Kg
75-00-3	Chloroethane	2.10	U	2.10	8.50	ug/Kg
75-69-4	Trichlorofluoromethane	2.10	U	2.10	8.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.50	ug/Kg
75-35-4	1,1-Dichloroethene	1.70	U	1.70	8.50	ug/Kg
67-64-1	Acetone	210		8.10	42.6	ug/Kg
75-15-0	Carbon Disulfide	8.30	J	1.80	8.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	8.50	ug/Kg
79-20-9	Methyl Acetate	2.60	U	2.60	8.50	ug/Kg
75-09-2	Methylene Chloride	6.00	U	6.00	17.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	8.50	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	8.50	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	8.50	ug/Kg
78-93-3	2-Butanone	39.9	J	11.1	42.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	8.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	U	1.30	8.50	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	8.50	ug/Kg
67-66-3	Chloroform	1.40	U	1.40	8.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.60	U	1.60	8.50	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.50	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.50	ug/Kg
107-06-2	1,2-Dichloroethane	1.30	U	1.30	8.50	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.50	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	1.50	8.50	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	8.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.10	U	6.10	42.6	ug/Kg
108-88-3	Toluene	1.30	U	1.30	8.50	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.2
Sample Wt/Vol:	5.52 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022089.D	1		04/30/25 17:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.10	U	1.10	8.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.10	U	1.10	8.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	8.50	ug/Kg
591-78-6	2-Hexanone	6.30	U	6.30	42.6	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	8.50	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	1.50	8.50	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	1.80	8.50	ug/Kg
108-90-7	Chlorobenzene	1.50	U	1.50	8.50	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.50	ug/Kg
179601-23-1	m/p-Xylenes	2.10	U	2.10	17.0	ug/Kg
95-47-6	o-Xylene	1.40	U	1.40	8.50	ug/Kg
100-42-5	Styrene	1.20	U	1.20	8.50	ug/Kg
75-25-2	Bromoform	1.50	U	1.50	8.50	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	8.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.10	U	2.10	8.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.90	U	2.90	8.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.70	U	2.70	8.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	2.50	8.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.10	U	3.10	8.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.10	U	5.10	8.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.40	U	5.40	8.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.3		70 (38) - 130 (136)	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	381000	7.707			
540-36-3	1,4-Difluorobenzene	713000	8.609			
3114-55-4	Chlorobenzene-d5	629000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	233000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.2
Sample Wt/Vol:	5.52 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022089.D	1		04/30/25 17:52	VY043025

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

Raw Data: **VY022090.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.1
Sample Wt/Vol:	5.52 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022090.D	1		04/30/25 18:16	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.00	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.00	ug/Kg
75-01-4	Vinyl Chloride	0.95	U	0.95	6.00	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.00	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	6.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.00	ug/Kg
67-64-1	Acetone	5.70	U	5.70	30.2	ug/Kg
75-15-0	Carbon Disulfide	12.5		1.30	6.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.88	U	0.88	6.00	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.00	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	6.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.96	U	0.96	6.00	ug/Kg
110-82-7	Cyclohexane	0.95	U	0.95	6.00	ug/Kg
78-93-3	2-Butanone	7.90	U	7.90	30.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	6.00	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.00	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.00	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.00	ug/Kg
71-43-2	Benzene	1.60	J	0.95	6.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.95	U	0.95	6.00	ug/Kg
79-01-6	Trichloroethene	0.98	U	0.98	6.00	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.00	ug/Kg
75-27-4	Bromodichloromethane	0.94	U	0.94	6.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.30	U	4.30	30.2	ug/Kg
108-88-3	Toluene	0.94	U	0.94	6.00	ug/Kg

Raw Data: **VY022090.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.1
Sample Wt/Vol:	5.52 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022090.D	1		04/30/25 18:16	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.78	U	0.78	6.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.75	U	0.75	6.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.00	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	30.2	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	6.00	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.00	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.00	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.00	ug/Kg
100-41-4	Ethyl Benzene	0.81	U	0.81	6.00	ug/Kg
179601-23-1	m/p-Xylenes	2.20	J	1.50	12.1	ug/Kg
95-47-6	o-Xylene	1.70	J	0.99	6.00	ug/Kg
100-42-5	Styrene	0.86	U	0.86	6.00	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.00	ug/Kg
98-82-8	Isopropylbenzene	12.2		0.94	6.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	6.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	2.20	6.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.60	U	3.60	6.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.80	U	3.80	6.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		70 (63) - 130 (155)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	46.7		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	33.0	*	70 (38) - 130 (136)	66%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	385000	7.707			
540-36-3	1,4-Difluorobenzene	710000	8.61			
3114-55-4	Chlorobenzene-d5	564000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022090.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.1
Sample Wt/Vol:	5.52 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022090.D	1		04/30/25 18:16	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-63-6	1,2,4-Trimethylbenzene	1.50	J		13.0	ug/Kg

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

Raw Data: **VX045979.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045979.D	1		04/29/25 13:58	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	4.70	J	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	UQ	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Raw Data: **VX045979.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045979.D	1		04/29/25 13:58	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64500	5.544			
540-36-3	1,4-Difluorobenzene	128000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	48400	12.018			

Raw Data: **VX045979.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045979.D	1		04/29/25 13:58	VX042925

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

Raw Data: **VX045978.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	TB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045978.D	1		04/29/25 13:35	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.70	J	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	UQ	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Raw Data: **VX045978.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	TB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045978.D	1		04/29/25 13:35	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67300	5.544			
540-36-3	1,4-Difluorobenzene	131000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53800	12.018			

Raw Data: **VX045978.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	TB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045978.D	1		04/29/25 13:35	VX042925

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

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1901-01	B-170-SB00	1,2-Dichloroethane-d4	50	53.5	107		70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102		70 (70)	130 (134)
		Toluene-d8	50	48.2	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	54.9	110		70 (38)	130 (136)
Q1901-02	B-167-SB01	1,2-Dichloroethane-d4	50	53.3	107		70 (63)	130 (155)
		Dibromofluoromethane	50	51.1	102		70 (70)	130 (134)
		Toluene-d8	50	47.7	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	36.1	72		70 (38)	130 (136)
Q1901-03	B-170-SB01	1,2-Dichloroethane-d4	50	55.0	110		70 (63)	130 (155)
		Dibromofluoromethane	50	51.4	103		70 (70)	130 (134)
		Toluene-d8	50	47.9	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	56.5	113		70 (38)	130 (136)
Q1901-04	B-167-SB02	1,2-Dichloroethane-d4	50	53.5	107		70 (63)	130 (155)
		Dibromofluoromethane	50	51.0	102		70 (70)	130 (134)
		Toluene-d8	50	47.7	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	39.4	79		70 (38)	130 (136)
Q1901-05	B-170-SB02	1,2-Dichloroethane-d4	50	49.6	99		70 (63)	130 (155)
		Dibromofluoromethane	50	49.8	100		70 (70)	130 (134)
		Toluene-d8	50	46.7	93		70 (74)	130 (123)
		4-Bromofluorobenzene	50	33.0	66	*	70 (38)	130 (136)
VY0430SBL01	VY0430SBL01	1,2-Dichloroethane-d4	50	52.3	105		70 (63)	130 (155)
		Dibromofluoromethane	50	51.8	104		70 (70)	130 (134)
		Toluene-d8	50	48.2	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.3	107		70 (38)	130 (136)
VY0430SBS01	VY0430SBS01	1,2-Dichloroethane-d4	50	49.5	99		70 (63)	130 (155)
		Dibromofluoromethane	50	52.6	105		70 (70)	130 (134)
		Toluene-d8	50	52.7	105		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.8	104		70 (38)	130 (136)
VY0430SBSD01	VY0430SBSD01	1,2-Dichloroethane-d4	50	49.0	98		70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102		70 (70)	130 (134)
		Toluene-d8	50	51.3	103		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101		70 (38)	130 (136)
VY0501SBL01	VY0501SBL01	1,2-Dichloroethane-d4	50	49.2	98		70 (63)	130 (155)
		Dibromofluoromethane	50	50.6	101		70 (70)	130 (134)
		Toluene-d8	50	47.8	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.1	106		70 (38)	130 (136)
VY0501SBS01	VY0501SBS01	1,2-Dichloroethane-d4	50	47.5	95		70 (63)	130 (155)
		Dibromofluoromethane	50	49.5	99		70 (70)	130 (134)
		Toluene-d8	50	50.1	100		70 (74)	130 (123)
		4-Bromofluorobenzene	50	49.3	99		70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1901-06	FB04262025	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.4	101	70 (77)	130 (121)
Q1901-07	TB04262025	1,2-Dichloroethane-d4	50	54.2	108	70 (74)	130 (125)
		Dibromofluoromethane	50	51.9	104	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.9	108	70 (77)	130 (121)
VX0429WBL01	VX0429WBL01	1,2-Dichloroethane-d4	50	55.1	110	70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
VX0429WBS01	VX0429WBS01	1,2-Dichloroethane-d4	50	53.9	108	70 (74)	130 (125)
		Dibromofluoromethane	50	55.4	111	70 (75)	130 (124)
		Toluene-d8	50	53.0	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.4	113	70 (77)	130 (121)
VX0429WBSD0	VX0429WBSD01	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	54.8	110	70 (75)	130 (124)
		Toluene-d8	50	51.7	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.4	111	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045975.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBS01	Dichlorodifluoromethane	20	17.4	ug/L	87			40 (69)	160 (116)	
	Chloromethane	20	16.3	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	16.9	ug/L	85			70 (65)	130 (117)	
	Bromomethane	20	17.5	ug/L	88			40 (58)	160 (125)	
	Chloroethane	20	20.4	ug/L	102			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.4	ug/L	97			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/L	102			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	97.8	ug/L	98			40 (60)	160 (125)	
	Carbon disulfide	20	13.4	ug/L	67			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.1	ug/L	106			70 (78)	130 (114)	
	Methyl Acetate	20	28.4	ug/L	142		*	70 (67)	130 (125)	
	Methylene Chloride	20	19.2	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.1	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	18.0	ug/L	90			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	21.2	ug/L	106			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	Bromochloromethane	20	22.0	ug/L	110			70 (70)	130 (124)	
	Chloroform	20	21.1	ug/L	106			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Methylcyclohexane	20	18.8	ug/L	94			70 (72)	130 (115)	
	Benzene	20	19.7	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.5	ug/L	108			70 (80)	130 (115)	
	Trichloroethene	20	19.9	ug/L	100			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.9	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	21.4	ug/L	107			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	110	ug/L	110			40 (74)	160 (118)	
	Toluene	20	20.5	ug/L	103			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	21.5	ug/L	108			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.9	ug/L	110			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	21.1	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.7	ug/L	109			70 (81)	130 (110)	
	Tetrachloroethene	20	20.0	ug/L	100			70 (67)	130 (123)	
	Chlorobenzene	20	20.8	ug/L	104			70 (82)	130 (109)	
	Ethyl Benzene	20	20.9	ug/L	104			70 (83)	130 (109)	
	m/p-Xylenes	40	41.7	ug/L	104			70 (82)	130 (110)	
	o-Xylene	20	20.9	ug/L	104			70 (83)	130 (109)	
	Styrene	20	21.4	ug/L	107			70 (80)	130 (111)	
	Bromoform	20	21.2	ug/L	106			70 (79)	130 (109)	
	Isopropylbenzene	20	20.4	ug/L	102			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/L	104			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.2	ug/L	106			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045975.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBS01	1,2-Dibromo-3-Chloropropane	20	21.5	ug/L	108			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	20.1	ug/L	101			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045976.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0429WBSD01	Dichlorodifluoromethane	20	17.3	ug/L	86	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.4	ug/L	82	1		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	16.9	ug/L	85	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	17.3	ug/L	86	2		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	7		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.5	ug/L	98	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106	4		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.2	ug/L	96	3		70 (74)	130 (110)	20 (20)
	Acetone	100	100	ug/L	100	2		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	13.4	ug/L	67	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.9	ug/L	110	4		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	30.0	ug/L	150	5	*	70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.4	ug/L	102	6		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.6	ug/L	93	4		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.0	ug/L	100	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.4	ug/L	92	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.2	ug/L	106	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.5	ug/L	103	3		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.9	ug/L	115	4		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.5	ug/L	108	2		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.9	ug/L	104	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.9	ug/L	100	6		70 (72)	130 (115)	20 (20)
	Benzene	20	19.8	ug/L	99	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.2	ug/L	111	3		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.6	ug/L	98	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.7	ug/L	109	5		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.4	ug/L	107	0		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		40 (74)	160 (118)	20 (20)
	Toluene	20	20.1	ug/L	101	2		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.3	ug/L	102	5		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.3	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.6	ug/L	108	2		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	22.1	ug/L	111	5		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	22.1	ug/L	111	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.7	ug/L	99	1		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.5	ug/L	108	4		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.2	ug/L	106	2		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.6	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	21.5	ug/L	108	4		70 (83)	130 (109)	20 (20)
	Styrene	20	21.7	ug/L	109	2		70 (80)	130 (111)	20 (20)
	Bromoform	20	21.2	ug/L	106	0		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.9	ug/L	100	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105	1		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.2	ug/L	101	0		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.0	ug/L	100	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	21.2	ug/L	106	0		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045976.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0429WBSD01	1,2-Dibromo-3-Chloropropane	20	22.3	ug/L	112	4		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.9	ug/L	104	6		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	20.3	ug/L	102	1		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022072.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0430SBS01	Dichlorodifluoromethane	20	19.3	ug/Kg	97			40 (64)	160 (136)	
	Chloromethane	20	22.2	ug/Kg	111			40 (70)	160 (130)	
	Vinyl chloride	20	20.7	ug/Kg	104			70 (72)	130 (129)	
	Bromomethane	20	22.8	ug/Kg	114			40 (58)	160 (141)	
	Chloroethane	20	21.2	ug/Kg	106			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.8	ug/Kg	109			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.7	ug/Kg	99			70 (79)	130 (121)	
	Acetone	100	94.5	ug/Kg	95			40 (60)	160 (131)	
	Carbon disulfide	20	19.9	ug/Kg	100			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			70 (77)	130 (129)	
	Methyl Acetate	20	20.3	ug/Kg	102			70 (69)	130 (149)	
	Methylene Chloride	20	20.0	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.9	ug/Kg	100			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	92.7	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.3	ug/Kg	106			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	20.0	ug/Kg	100			70 (80)	130 (127)	
	Chloroform	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.2	ug/Kg	96			70 (77)	130 (123)	
	Benzene	20	20.6	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.2	ug/Kg	106			70 (81)	130 (126)	
	Trichloroethene	20	20.9	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	Bromodichloromethane	20	20.9	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	2-Hexanone	100	99.9	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.6	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	21.1	ug/Kg	106			70 (83)	130 (125)	
	Chlorobenzene	20	20.1	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	m/p-Xylenes	40	40.6	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	19.7	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	20.0	ug/Kg	100			70 (82)	130 (124)	
	Bromoform	20	20.9	ug/Kg	104			70 (75)	130 (127)	
	Isopropylbenzene	20	18.8	ug/Kg	94			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/Kg	99			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022072.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0430SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.2	ug/Kg	96			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.7	ug/Kg	99			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022073.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0430SBSD01	Dichlorodifluoromethane	20	20.3	ug/Kg	102	5		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.5	ug/Kg	98	12		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.7	ug/Kg	99	5		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.5	ug/Kg	98	15		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.5	ug/Kg	98	8		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	20.4	ug/Kg	102	7		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102	0		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.2	ug/Kg	101	2		70 (79)	130 (121)	30 (20)
	Acetone	100	89.4	ug/Kg	89	7		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.7	ug/Kg	99	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	18.6	ug/Kg	93	2		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.5	ug/Kg	108	6		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.1	ug/Kg	101	1		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.0	ug/Kg	100	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.8	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.9	ug/Kg	95	0		70 (76)	130 (122)	30 (20)
	2-Butanone	100	91.4	ug/Kg	91	2		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.0	ug/Kg	100	0		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.1	ug/Kg	101	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.0	ug/Kg	95	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.5	ug/Kg	103	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.5	ug/Kg	103	3		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.5	ug/Kg	103	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.4	ug/Kg	102	0		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.6	ug/Kg	103	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	98.5	ug/Kg	99	1		40 (70)	160 (135)	30 (20)
	Toluene	20	20.5	ug/Kg	103	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101	2		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.1	ug/Kg	101	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	94.3	ug/Kg	94	6		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.2	ug/Kg	101	5		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	2		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.3	ug/Kg	106	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.3	ug/Kg	102	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.4	ug/Kg	97	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.3	ug/Kg	101	1		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.4	ug/Kg	97	2		70 (83)	130 (123)	30 (20)
	Styrene	20	20.3	ug/Kg	102	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.3	ug/Kg	102	2		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.3	ug/Kg	97	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/Kg	97	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.4	ug/Kg	102	1		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022073.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0430SBSD01	1,2-Dibromo-3-Chloropropane	20	18.4	ug/Kg	92	1		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	18.8	ug/Kg	94	2		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95	4		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022097.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0501SBS01	Dichlorodifluoromethane	20	19.2	ug/Kg	96			40 (64)	160 (136)	
	Chloromethane	20	18.7	ug/Kg	94			40 (70)	160 (130)	
	Vinyl chloride	20	18.7	ug/Kg	94			70 (72)	130 (129)	
	Bromomethane	20	18.6	ug/Kg	93			40 (58)	160 (141)	
	Chloroethane	20	18.9	ug/Kg	95			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.9	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	91.2	ug/Kg	91			40 (60)	160 (131)	
	Carbon disulfide	20	19.5	ug/Kg	98			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	18.0	ug/Kg	90			70 (77)	130 (129)	
	Methyl Acetate	20	18.7	ug/Kg	94			70 (69)	130 (149)	
	Methylene Chloride	20	19.3	ug/Kg	97			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.8	ug/Kg	99			70 (82)	130 (123)	
	Cyclohexane	20	18.8	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	86.7	ug/Kg	87			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.6	ug/Kg	103			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.8	ug/Kg	99			70 (82)	130 (123)	
	Bromochloromethane	20	18.9	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.2	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.0	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	20.2	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.9	ug/Kg	100			70 (81)	130 (126)	
	Trichloroethene	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.1	ug/Kg	101			70 (83)	130 (122)	
	Bromodichloromethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	88.1	ug/Kg	88			40 (70)	160 (135)	
	Toluene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.9	ug/Kg	95			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	84.7	ug/Kg	85			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	20.9	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	19.5	ug/Kg	98			70 (82)	130 (124)	
	m/p-Xylenes	40	40.5	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.6	ug/Kg	98			70 (83)	130 (123)	
	Styrene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	Bromoform	20	19.6	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.2	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.4	ug/Kg	92			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022097.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0501SBS01	1,2-Dibromo-3-Chloropropane	20	17.7	ug/Kg	89			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0429WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045974.D Lab Sample ID: VX0429WBL01

Date Analyzed: 04/29/2025 Time Analyzed: 11:58

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0429WBS01	VX0429WBS01	VX045975.D	04/29/2025
VX0429WBSD01	VX0429WBSD01	VX045976.D	04/29/2025
TB04262025	Q1901-07	VX045978.D	04/29/2025
FB04262025	Q1901-06	VX045979.D	04/29/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0430SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022071.D Lab Sample ID: VY0430SBL01

Date Analyzed: 04/30/2025 Time Analyzed: 09:57

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0430SBS01	VY0430SBS01	VY022072.D	04/30/2025
VY0430SBSD01	VY0430SBSD01	VY022073.D	04/30/2025
B-167-SB01	Q1901-02	VY022087.D	04/30/2025
B-167-SB02	Q1901-04	VY022089.D	04/30/2025
B-170-SB02	Q1901-05	VY022090.D	04/30/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0501SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022096.D Lab Sample ID: VY0501SBL01

Date Analyzed: 05/01/2025 Time Analyzed: 10:11

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0501SBS01	VY0501SBS01	VY022097.D	05/01/2025
B-170-SB00	Q1901-01	VY022105.D	05/01/2025
B-170-SB01	Q1901-03	VY022106.D	05/01/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045971.D BFB Injection Date: 04/29/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.8 (7.3) 1
176	95.0 - 101.0% of mass 174	64.2 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VX045972.D	04/29/2025	11:06
VX0429WBL01	VX0429WBL01	VX045974.D	04/29/2025	11:58
VX0429WBS01	VX0429WBS01	VX045975.D	04/29/2025	12:21
VX0429WBSD01	VX0429WBSD01	VX045976.D	04/29/2025	12:49
TB04262025	Q1901-07	VX045978.D	04/29/2025	13:35
FB04262025	Q1901-06	VX045979.D	04/29/2025	13:58

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY021952.D BFB Injection Date: 04/22/2025

Instrument ID: MSVOA_Y BFB Injection Time: 11:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	7.1 (8) 1
176	95.0 - 101.0% of mass 174	84.9 (96.1) 1
177	5.0 - 9.0% of mass 176	5.5 (6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDICC005	VSTDICC005	VY021953.D	04/22/2025	13:39
VSTDICC010	VSTDICC010	VY021954.D	04/22/2025	14:44
VSTDICC020	VSTDICC020	VY021955.D	04/22/2025	15:07
VSTDICCC050	VSTDICCC050	VY021956.D	04/22/2025	15:29
VSTDICC100	VSTDICC100	VY021957.D	04/22/2025	15:52
VSTDICC150	VSTDICC150	VY021958.D	04/22/2025	16:15

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022069.D BFB Injection Date: 04/30/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:50

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.6 (1.8) 1
174	50.0 - 100.0% of mass 95	90.5
175	5.0 - 9.0% of mass 174	7 (7.8) 1
176	95.0 - 101.0% of mass 174	87.9 (97.2) 1
177	5.0 - 9.0% of mass 176	5.4 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VY022070.D	04/30/2025	09:20
VY0430SBL01	VY0430SBL01	VY022071.D	04/30/2025	09:57
VY0430SBS01	VY0430SBS01	VY022072.D	04/30/2025	10:30
VY0430SBSD01	VY0430SBSD01	VY022073.D	04/30/2025	10:52
B-167-SB01	Q1901-02	VY022087.D	04/30/2025	17:05
B-167-SB02	Q1901-04	VY022089.D	04/30/2025	17:52
B-170-SB02	Q1901-05	VY022090.D	04/30/2025	18:16

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022094.D BFB Injection Date: 05/01/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:20

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	87.7
175	5.0 - 9.0% of mass 174	6.9 (7.8) 1
176	95.0 - 101.0% of mass 174	83.4 (95.1) 1
177	5.0 - 9.0% of mass 176	5.6 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VY022095.D	05/01/2025	08:50
VY0501SBL01	VY0501SBL01	VY022096.D	05/01/2025	10:11
VY0501SBS01	VY0501SBS01	VY022097.D	05/01/2025	10:42
B-170-SB00	Q1901-01	VY022105.D	05/01/2025	14:15
B-170-SB01	Q1901-03	VY022106.D	05/01/2025	14:38

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045972.D Date Analyzed: 04/29/2025

Instrument ID: MSVOA_X Time Analyzed: 11:06

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	79737	5.54	136469	6.76	117675	10.05
UPPER LIMIT	159474	6.044	272938	7.257	235350	10.549
LOWER LIMIT	39868.5	5.044	68234.5	6.257	58837.5	9.549
EPA SAMPLE NO.						
FB04262025	64509	5.54	127954	6.76	115874	10.05
TB04262025	67274	5.54	131446	6.76	123412	10.05
VX0429WBL01	63902	5.55	127024	6.76	116648	10.05
VX0429WBS01	80632	5.55	140487	6.76	122568	10.05
VX0429WBSD01	77095	5.54	135079	6.76	118384	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045972.D Date Analyzed: 04/29/2025

Instrument ID: MSVOA_X Time Analyzed: 11:06

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	59672	12.018				
UPPER LIMIT	119344	12.518				
LOWER LIMIT	29836	11.518				
EPA SAMPLE NO.						
FB04262025	48370	12.02				
TB04262025	53777	12.02				
VX0429WBL01	47876	12.02				
VX0429WBS01	59236	12.02				
VX0429WBSD01	57470	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022070.D Date Analyzed: 04/30/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:20

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	299393	7.71	438020	8.62	420486	11.41
UPPER LIMIT	598786	8.207	876040	9.116	840972	11.914
LOWER LIMIT	149697	7.207	219010	8.116	210243	10.914
EPA SAMPLE NO.						
B-167-SB01	348376	7.71	652384	8.61	556238	11.41
B-167-SB02	381091	7.71	712829	8.61	629182	11.41
B-170-SB02	384809	7.71	709625	8.61	563942	11.41
VY0430SBL01	311598	7.71	580894	8.62	511027	11.41
VY0430SBS01	286487	7.71	433702	8.62	405299	11.41
VY0430SBSD01	289313	7.71	439988	8.61	406945	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022070.D Date Analyzed: 04/30/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:20

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	233640	13.346				
UPPER LIMIT	467280	13.846				
LOWER LIMIT	116820	12.846				
EPA SAMPLE NO.						
B-167-SB01	176600	13.35				
B-167-SB02	233488	13.35				
B-170-SB02	150773	13.35				
VY0430SBL01	186896	13.35				
VY0430SBS01	222589	13.35				
VY0430SBSD01	218185	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022095.D Date Analyzed: 05/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:50

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	300031	7.71	433614	8.62	410078	11.42
UPPER LIMIT	600062	8.207	867228	9.116	820156	11.92
LOWER LIMIT	150016	7.207	216807	8.116	205039	10.92
EPA SAMPLE NO.						
B-170-SB00	310481	7.71	585270	8.62	519369	11.41
B-170-SB01	307701	7.71	584162	8.62	521346	11.42
VY0501SBL01	317996	7.71	585580	8.62	508953	11.42
VY0501SBS01	294485	7.71	452802	8.62	414235	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022095.D Date Analyzed: 05/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:50

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	227184	13.347				
UPPER LIMIT	454368	13.847				
LOWER LIMIT	113592	12.847				
EPA SAMPLE NO.						
B-170-SB00	196391	13.35				
B-170-SB01	197125	13.35				
VY0501SBL01	180066	13.35				
VY0501SBS01	225406	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

QC SAMPLE DATA

Raw Data: **VX045974.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045974.D	1		04/29/25 11:58	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045974.D	1		04/29/25 11:58	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		70 (74) - 130 (125)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63900	5.55			
540-36-3	1,4-Difluorobenzene	127000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47900	12.018			

Raw Data: **VX045974.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045974.D	1		04/29/25 11:58	VX042925

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022071.D	1		04/30/25 09:57	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022071.D	1		04/30/25 09:57	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.3		70 (63) - 130 (155)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (38) - 130 (136)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	7.707			
540-36-3	1,4-Difluorobenzene	581000	8.616			
3114-55-4	Chlorobenzene-d5	511000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	187000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022071.D	1		04/30/25 09:57	VY043025

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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022096.D	1		05/01/25 10:11	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Raw Data: **VY022096.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022096.D	1		05/01/25 10:11	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		70 (38) - 130 (136)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	318000	7.707			
540-36-3	1,4-Difluorobenzene	586000	8.615			
3114-55-4	Chlorobenzene-d5	509000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	180000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022096.D	1		05/01/25 10:11	VY050125

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

Raw Data: **VX045975.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045975.D	1		04/29/25 12:21	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.4		0.22	1.00	ug/L
74-87-3	Chloromethane	16.3		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	16.9		0.26	1.00	ug/L
74-83-9	Bromomethane	17.5		1.40	5.00	ug/L
75-00-3	Chloroethane	20.4		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
67-64-1	Acetone	97.8		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	13.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	28.4		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.2		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.0		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.0		0.22	1.00	ug/L
67-66-3	Chloroform	21.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.8		0.16	1.00	ug/L
71-43-2	Benzene	19.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.5		0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045975.D	1		04/29/25 12:21	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.7		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	41.7		0.24	2.00	ug/L
95-47-6	o-Xylene	20.9		0.12	1.00	ug/L
100-42-5	Styrene	21.4		0.15	1.00	ug/L
75-25-2	Bromoform	21.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.9		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	53.0		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	80600	5.55			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59200	12.018			

Raw Data: **VX045975.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045975.D	1		04/29/25 12:21	VX042925

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022072.D	1		04/30/25 10:30	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.7		1.00	5.00	ug/Kg
67-64-1	Acetone	94.5		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.9		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.79	5.00	ug/Kg
78-93-3	2-Butanone	92.7		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.3		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.4		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.91	5.00	ug/Kg
71-43-2	Benzene	20.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.2		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022072.D	1		04/30/25 10:30	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.9		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	99.9		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.82	5.00	ug/Kg
100-42-5	Styrene	20.0		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.9		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		70 (63) - 130 (155)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	52.7		70 (74) - 130 (123)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (38) - 130 (136)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	286000	7.707			
540-36-3	1,4-Difluorobenzene	434000	8.616			
3114-55-4	Chlorobenzene-d5	405000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	223000	13.347			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022072.D	1		04/30/25 10:30	VY043025

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022097.D	1		05/01/25 10:42	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	18.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		1.00	5.00	ug/Kg
67-64-1	Acetone	91.2		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	86.7		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	18.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.0		0.91	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	88.1		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

Raw Data: **VY022097.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022097.D	1		05/01/25 10:42	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	84.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.5		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.6		0.82	5.00	ug/Kg
100-42-5	Styrene	20.1		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.2		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.4		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.6		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.5		70 (63) - 130 (155)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (70) - 130 (134)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (74) - 130 (123)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		70 (38) - 130 (136)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	294000	7.707			
540-36-3	1,4-Difluorobenzene	453000	8.616			
3114-55-4	Chlorobenzene-d5	414000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	225000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022097.D	1		05/01/25 10:42	VY050125

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

Raw Data: **VX045976.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045976.D	1		04/29/25 12:49	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.3		0.22	1.00	ug/L
74-87-3	Chloromethane	16.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	16.9		0.26	1.00	ug/L
74-83-9	Bromomethane	17.3		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	13.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	30.0		0.27	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.9		0.22	1.00	ug/L
67-66-3	Chloroform	21.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.9		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.9		0.16	1.00	ug/L
71-43-2	Benzene	19.8		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.7		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.1		0.14	1.00	ug/L

Raw Data: **VX045976.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045976.D	1		04/29/25 12:49	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.3		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	22.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	21.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	42.6		0.24	2.00	ug/L
95-47-6	o-Xylene	21.5		0.12	1.00	ug/L
100-42-5	Styrene	21.7		0.15	1.00	ug/L
75-25-2	Bromoform	21.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.9		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.3		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	51.7		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77100	5.544			
540-36-3	1,4-Difluorobenzene	135000	6.757			
3114-55-4	Chlorobenzene-d5	118000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57500	12.018			

Raw Data: **VX045976.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045976.D	1		04/29/25 12:49	VX042925

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBSD01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022073.D	1		04/30/25 10:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	89.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.0		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.79	5.00	ug/Kg
78-93-3	2-Butanone	91.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.0		0.91	5.00	ug/Kg
71-43-2	Benzene	20.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	98.5		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

Raw Data: **VY022073.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBSD01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022073.D	1		04/30/25 10:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	94.3		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.2		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.3		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.4		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.707			
540-36-3	1,4-Difluorobenzene	440000	8.61			
3114-55-4	Chlorobenzene-d5	407000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	218000	13.347			

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBSD01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022073.D	1		04/30/25 10:52	VY043025

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.1
Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.1
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.2
Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.3
Trichlorofluoromethane	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.2
1,1,2-Trichlorotrifluoroethane	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.7
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.3
Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.2
Methyl tert-butyl Ether	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.2
Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.2
Methylene Chloride	0.692	0.695	0.726	0.709	0.705	0.690	0.703	2
trans-1,2-Dichloroethene	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.9
1,1-Dichloroethane	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3
Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
cis-1,2-Dichloroethene	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.4
Bromochloromethane	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.2
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
1,1,1-Trichloroethane	1.028	1.052	1.120	1.109	1.153	1.167	1.105	5
Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.8
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
1,2-Dichloropropane	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.8
Bromodichloromethane	0.521	0.519	0.576	0.572	0.587	0.583	0.560	5.6
4-Methyl-2-Pentanone	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.6
Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.3
cis-1,3-Dichloropropene	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.9
1,1,2-Trichloroethane	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.1
2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.1
Dibromochloromethane	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.1
1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.1
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.9
m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.9
o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.2
Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.8
Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.1
Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.2
1,1,2,2-Tetrachloroethane	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.4
1,3-Dichlorobenzene	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.7
1,4-Dichlorobenzene	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.1
1,2-Dichlorobenzene	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.3
1,2-Dibromo-3-Chloropropane	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.4
1,2,4-Trichlorobenzene	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.1
1,2,3-Trichlorobenzene	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.6
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.7
Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.2
Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.1
Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.3
Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.6
Trichlorofluoromethane	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.9
1,1,2-Trichlorotrifluoroethane	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.8
1,1-Dichloroethene	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5
Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.7
Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.7
Methyl tert-butyl Ether	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.6
Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.2
Methylene Chloride	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.7
trans-1,2-Dichloroethene	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.3
1,1-Dichloroethane	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.9
Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.6
2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.5
Carbon Tetrachloride	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.9
cis-1,2-Dichloroethene	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.1
Bromochloromethane	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.2
Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.2
1,1,1-Trichloroethane	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.8
Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	6
Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.1
1,2-Dichloroethane	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.3
Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.3
1,2-Dichloropropane	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.4
Bromodichloromethane	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.1
4-Methyl-2-Pentanone	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.9
Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.7
cis-1,3-Dichloropropene	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.3
1,1,2-Trichloroethane	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.8
2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.5
Dibromochloromethane	0.345	0.355	0.354	0.352	0.367	0.357	0.355	2
1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.3
Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.6
Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.5
Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.1
m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.3
o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.3
Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.2
Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.5
Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.2
1,1,2,2-Tetrachloroethane	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.4
1,3-Dichlorobenzene	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.5
1,4-Dichlorobenzene	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.7
1,2-Dichlorobenzene	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.8
1,2-Dibromo-3-Chloropropane	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.9
1,2,4-Trichlorobenzene	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.1
1,2,3-Trichlorobenzene	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.2
1,2-Dichloroethane-d4	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.3
Dibromofluoromethane	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.3
Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2
4-Bromofluorobenzene	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2025 11:06

Lab File ID: VX045972.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.748	0.712		-4.81	20
Chloromethane	0.768	0.720	0.1	-6.25	20
Vinyl Chloride	0.703	0.677		-3.7	20
Bromomethane	0.333	0.325		-2.4	20
Chloroethane	0.373	0.394		5.63	20
Trichlorofluoromethane	1.048	1.127		7.54	20
1,1,2-Trichlorotrifluoroethane	0.614	0.689		12.22	20
1,1-Dichloroethene	0.600	0.621		3.5	20
Acetone	0.375	0.380		1.33	20
Carbon Disulfide	1.483	1.385		-6.61	20
Methyl tert-butyl Ether	2.100	2.373		13	20
Methyl Acetate	0.864	1.136		31.48	20
Methylene Chloride	0.703	0.722		2.7	20
trans-1,2-Dichloroethene	0.613	0.644		5.06	20
1,1-Dichloroethane	1.269	1.349	0.1	6.3	20
Cyclohexane	1.122	1.160		3.39	20
2-Butanone	0.550	0.579		5.27	20
Carbon Tetrachloride	0.518	0.608		17.38	20
cis-1,2-Dichloroethene	0.747	0.782		4.68	20
Bromochloromethane	0.613	0.597		-2.61	20
Chloroform	1.306	1.431		9.57	20
1,1,1-Trichloroethane	1.105	1.243		12.49	20
Methylcyclohexane	0.587	0.680		15.84	20
Benzene	1.463	1.586		8.41	20
1,2-Dichloroethane	0.604	0.686		13.58	20
Trichloroethene	0.348	0.388		11.49	20
1,2-Dichloropropane	0.365	0.412		12.88	20
Bromodichloromethane	0.560	0.647		15.54	20
4-Methyl-2-Pentanone	0.606	0.699		15.35	20
Toluene	0.885	0.989		11.75	20
t-1,3-Dichloropropene	0.467	0.593		26.98	20
cis-1,3-Dichloropropene	0.526	0.649		23.38	20
1,1,2-Trichloroethane	0.353	0.398		12.75	20
2-Hexanone	0.449	0.521		16.04	20
Dibromochloromethane	0.385	0.460		19.48	20
1,2-Dibromoethane	0.357	0.410		14.85	20
Tetrachloroethene	0.353	0.405		14.73	20
Chlorobenzene	1.068	1.251	0.3	17.14	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2025 11:06

Lab File ID: VX045972.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.914	2.266		18.39	20
m/p-Xylenes	0.696	0.830		19.25	20
o-Xylene	0.686	0.806		17.49	20
Styrene	1.132	1.379		21.82	20
Bromoform	0.277	0.351	0.1	26.72	20
Isopropylbenzene	4.005	4.316		7.76	20
1,1,2,2-Tetrachloroethane	1.407	1.407	0.3	0	20
1,3-Dichlorobenzene	1.684	1.834		8.91	20
1,4-Dichlorobenzene	1.708	1.848		8.2	20
1,2-Dichlorobenzene	1.675	1.817		8.48	20
1,2-Dibromo-3-Chloropropane	0.294	0.337		14.63	20
1,2,4-Trichlorobenzene	0.932	1.076		15.45	20
1,2,3-Trichlorobenzene	0.976	1.071		9.73	20
1,2-Dichloroethane-d4	0.914	0.918		0.44	20
Dibromofluoromethane	0.355	0.375		5.63	20
Toluene-d8	1.238	1.242		0.32	20
4-Bromofluorobenzene	0.451	0.499		10.64	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date/Time: 04/30/2025 09:20

Lab File ID: VY022070.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.426	0.361		-15.26	20
Chloromethane	0.607	0.597	0.1	-1.65	20
Vinyl Chloride	0.745	0.723		-2.95	20
Bromomethane	0.642	0.627		-2.34	20
Chloroethane	0.508	0.502		-1.18	20
Trichlorofluoromethane	0.983	0.946		-3.76	20
1,1,2-Trichlorotrifluoroethane	0.533	0.496		-6.94	20
1,1-Dichloroethene	0.497	0.459		-7.65	20
Acetone	0.070	0.061		-12.86	20
Carbon Disulfide	1.585	1.443		-8.96	20
Methyl tert-butyl Ether	1.113	1.095		-1.62	20
Methyl Acetate	0.216	0.257		18.98	20
Methylene Chloride	0.584	0.519		-11.13	20
trans-1,2-Dichloroethene	0.557	0.526		-5.57	20
1,1-Dichloroethane	0.893	0.845	0.1	-5.38	20
Cyclohexane	0.763	0.696		-8.78	20
2-Butanone	0.105	0.102		-2.86	20
Carbon Tetrachloride	0.530	0.543		2.45	20
cis-1,2-Dichloroethene	0.622	0.600		-3.54	20
Bromochloromethane	0.347	0.344		-0.87	20
Chloroform	0.990	0.980		-1.01	20
1,1,1-Trichloroethane	0.896	0.866		-3.35	20
Methylcyclohexane	0.558	0.556		-0.36	20
Benzene	1.387	1.433		3.32	20
1,2-Dichloroethane	0.343	0.359		4.66	20
Trichloroethene	0.384	0.385		0.26	20
1,2-Dichloropropane	0.307	0.321		4.56	20
Bromodichloromethane	0.480	0.508		5.83	20
4-Methyl-2-Pentanone	0.160	0.181		13.13	20
Toluene	0.898	0.944		5.12	20
t-1,3-Dichloropropene	0.411	0.436		6.08	20
cis-1,3-Dichloropropene	0.489	0.515		5.32	20
1,1,2-Trichloroethane	0.256	0.278		8.59	20
2-Hexanone	0.106	0.121		14.15	20
Dibromochloromethane	0.355	0.394		10.99	20
1,2-Dibromoethane	0.242	0.266		9.92	20
Tetrachloroethene	0.472	0.424		-10.17	20
Chlorobenzene	1.118	1.125	0.3	0.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date/Time: 04/30/2025 09:20

Lab File ID: VY022070.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.829	1.863		1.86	20
m/p-Xylenes	0.728	0.766		5.22	20
o-Xylene	0.671	0.703		4.77	20
Styrene	1.126	1.213		7.73	20
Bromoform	0.229	0.245	0.1	6.99	20
Isopropylbenzene	3.341	3.262		-2.37	20
1,1,2,2-Tetrachloroethane	0.563	0.583	0.3	3.55	20
1,3-Dichlorobenzene	1.714	1.713		-0.06	20
1,4-Dichlorobenzene	1.698	1.666		-1.88	20
1,2-Dichlorobenzene	1.495	1.499		0.27	20
1,2-Dibromo-3-Chloropropane	0.090	0.085		-5.56	20
1,2,4-Trichlorobenzene	0.847	0.852		0.59	20
1,2,3-Trichlorobenzene	0.731	0.750		2.6	20
1,2-Dichloroethane-d4	0.462	0.441		-4.55	20
Dibromofluoromethane	0.330	0.337		2.12	20
Toluene-d8	1.245	1.278		2.65	20
4-Bromofluorobenzene	0.419	0.436		4.06	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date/Time: 05/01/2025 08:50

Lab File ID: VY022095.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.426	0.359		-15.73	20
Chloromethane	0.607	0.542	0.1	-10.71	20
Vinyl Chloride	0.745	0.677		-9.13	20
Bromomethane	0.642	0.511		-20.41	20
Chloroethane	0.508	0.454		-10.63	20
Trichlorofluoromethane	0.983	0.891		-9.36	20
1,1,2-Trichlorotrifluoroethane	0.533	0.484		-9.19	20
1,1-Dichloroethene	0.497	0.441		-11.27	20
Acetone	0.070	0.062		-11.43	20
Carbon Disulfide	1.585	1.372		-13.44	20
Methyl tert-butyl Ether	1.113	1.031		-7.37	20
Methyl Acetate	0.216	0.226		4.63	20
Methylene Chloride	0.584	0.488		-16.44	20
trans-1,2-Dichloroethene	0.557	0.508		-8.8	20
1,1-Dichloroethane	0.893	0.788	0.1	-11.76	20
Cyclohexane	0.763	0.665		-12.84	20
2-Butanone	0.105	0.100		-4.76	20
Carbon Tetrachloride	0.530	0.528		-0.38	20
cis-1,2-Dichloroethene	0.622	0.570		-8.36	20
Bromochloromethane	0.347	0.340		-2.02	20
Chloroform	0.990	0.919		-7.17	20
1,1,1-Trichloroethane	0.896	0.816		-8.93	20
Methylcyclohexane	0.558	0.550		-1.43	20
Benzene	1.387	1.370		-1.23	20
1,2-Dichloroethane	0.343	0.348		1.46	20
Trichloroethene	0.384	0.385		0.26	20
1,2-Dichloropropane	0.307	0.304		-0.98	20
Bromodichloromethane	0.480	0.484		0.83	20
4-Methyl-2-Pentanone	0.160	0.176		10	20
Toluene	0.898	0.925		3.01	20
t-1,3-Dichloropropene	0.411	0.416		1.22	20
cis-1,3-Dichloropropene	0.489	0.484		-1.02	20
1,1,2-Trichloroethane	0.256	0.267		4.3	20
2-Hexanone	0.106	0.118		11.32	20
Dibromochloromethane	0.355	0.371		4.51	20
1,2-Dibromoethane	0.242	0.251		3.72	20
Tetrachloroethene	0.472	0.481		1.91	20
Chlorobenzene	1.118	1.078	0.3	-3.58	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date/Time: 05/01/2025 08:50

Lab File ID: VY022095.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.829	1.811		-0.98	20
m/p-Xylenes	0.728	0.745		2.34	20
o-Xylene	0.671	0.676		0.75	20
Styrene	1.126	1.172		4.09	20
Bromoform	0.229	0.238	0.1	3.93	20
Isopropylbenzene	3.341	3.204		-4.1	20
1,1,2,2-Tetrachloroethane	0.563	0.530	0.3	-5.86	20
1,3-Dichlorobenzene	1.714	1.634		-4.67	20
1,4-Dichlorobenzene	1.698	1.606		-5.42	20
1,2-Dichlorobenzene	1.495	1.427		-4.55	20
1,2-Dibromo-3-Chloropropane	0.090	0.085		-5.56	20
1,2,4-Trichlorobenzene	0.847	0.802		-5.31	20
1,2,3-Trichlorobenzene	0.731	0.697		-4.65	20
1,2-Dichloroethane-d4	0.462	0.431		-6.71	20
Dibromofluoromethane	0.330	0.335		1.51	20
Toluene-d8	1.245	1.270		2.01	20
4-Bromofluorobenzene	0.419	0.427		1.91	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Time: May 02 01:30:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	310481	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	585270	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	519369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	196391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	153526	53.533	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.060%			
35) Dibromofluoromethane	7.634	113	196359	50.783	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.560%			
50) Toluene-d8	10.109	98	702240	48.174	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.340%			
62) 4-Bromofluorobenzene	12.408	95	269562	54.932	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.860%			

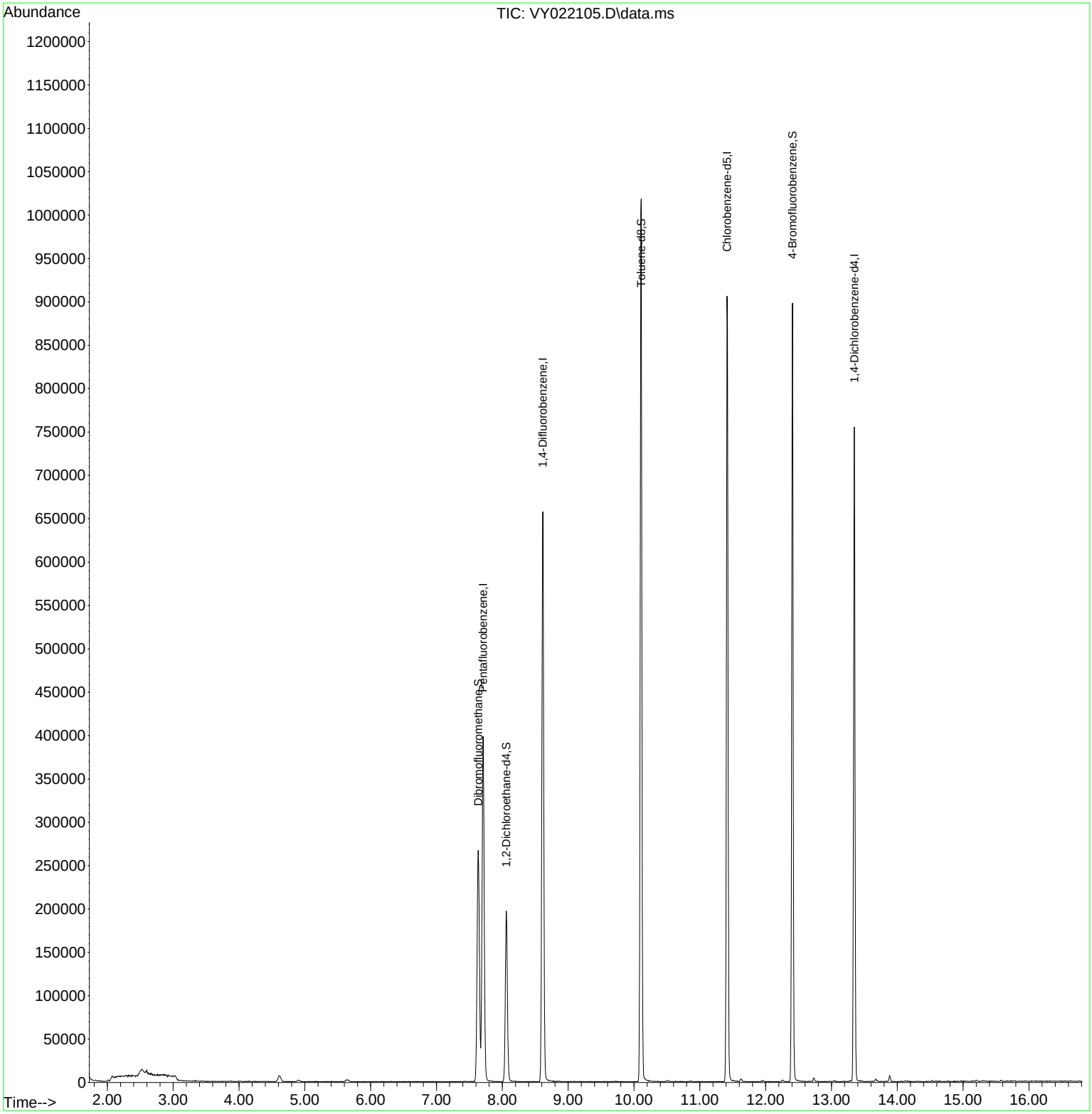
Target Compounds Qvalue

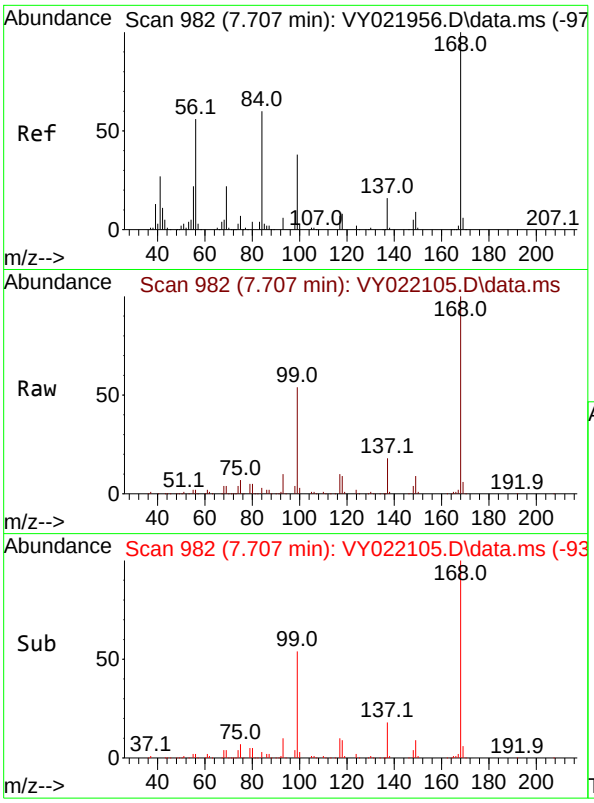
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Time: May 02 01:30:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



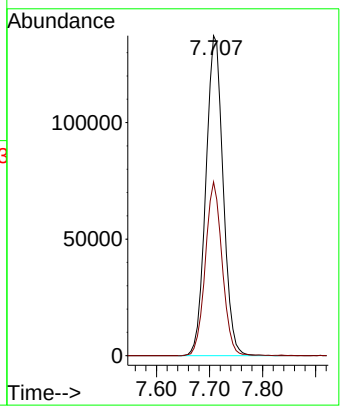


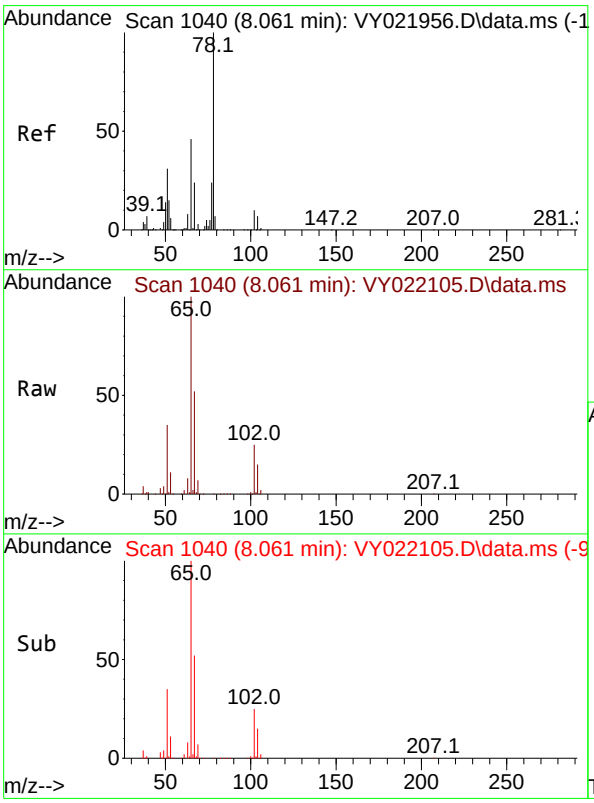
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion:168 Resp: 310481

Ion	Ratio	Lower	Upper
168	100		
99	54.3	43.1	64.7

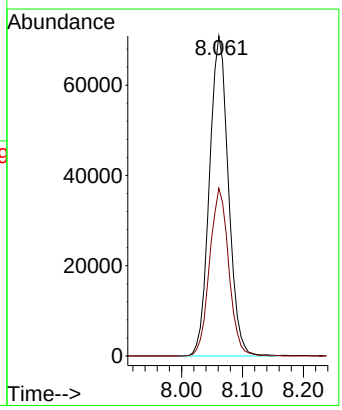


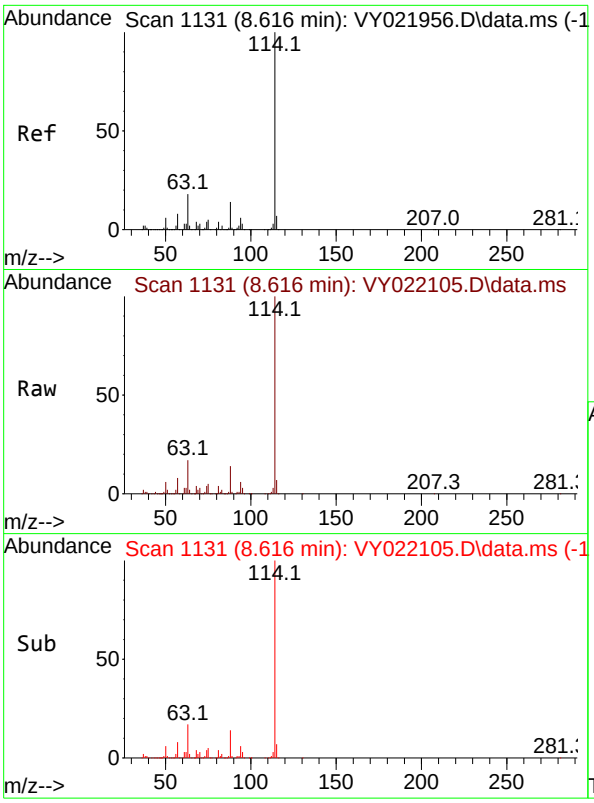


#33
1,2-Dichloroethane-d4
Concen: 53.533 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion: 65 Resp: 153526

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.8



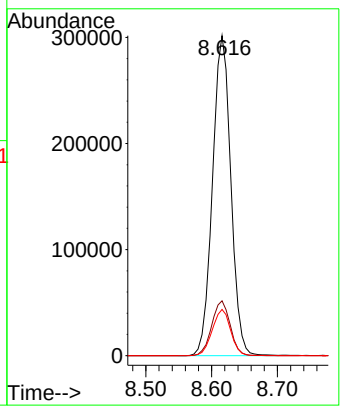


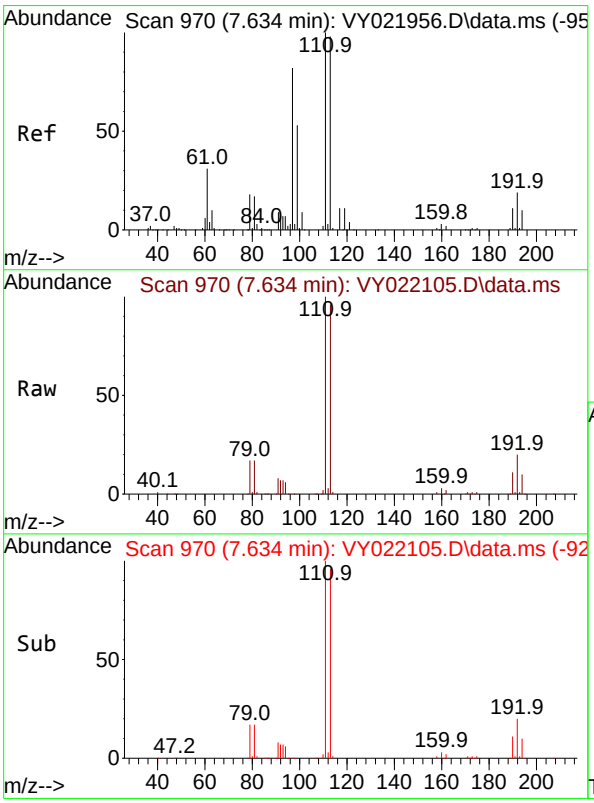
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion:114 Resp: 585270

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	35.4
88	14.4	0.0	28.2

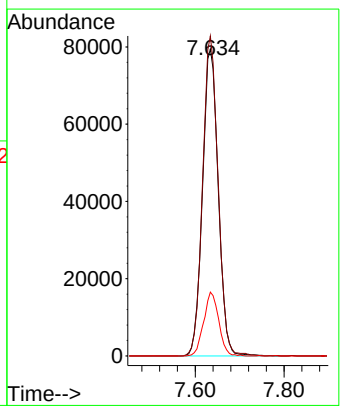


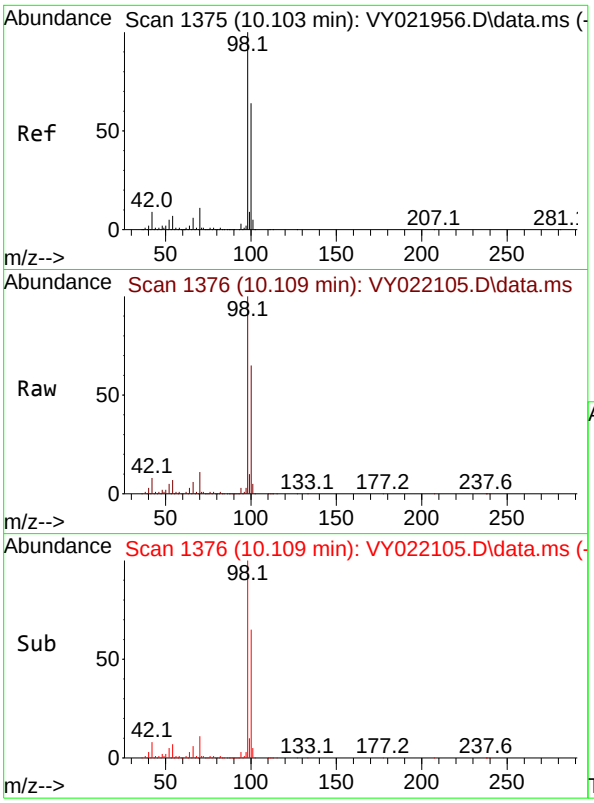


#35
Dibromofluoromethane
Concen: 50.783 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion:113 Resp: 196359

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	19.9	15.6	23.4



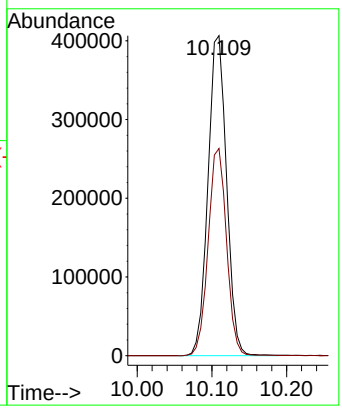


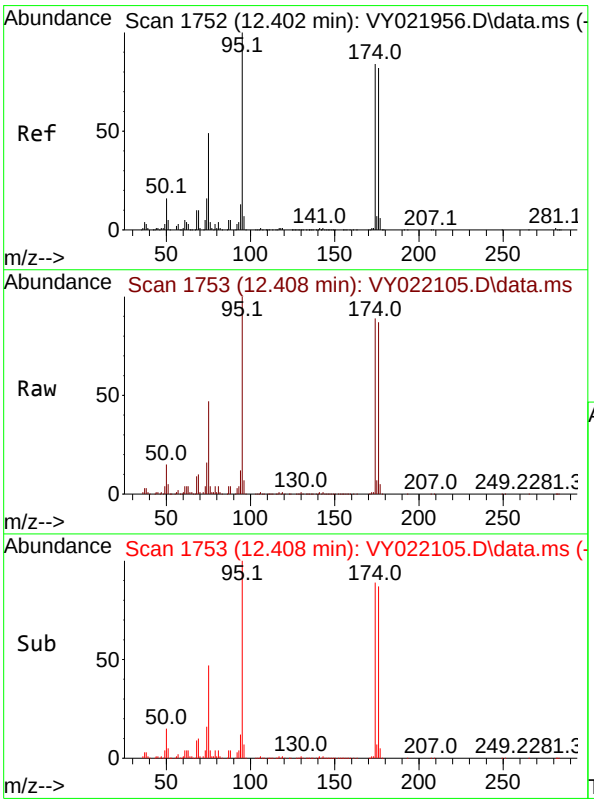
#50
Toluene-d8
Concen: 48.174 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion: 98 Resp: 702240

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

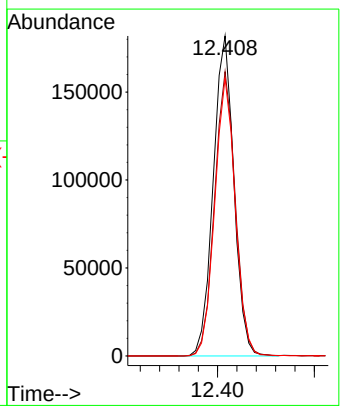


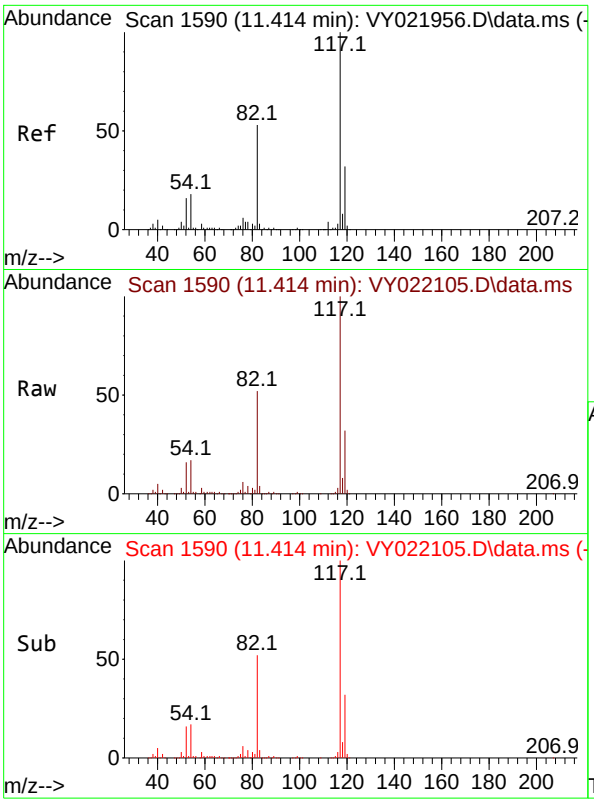


#62
4-Bromofluorobenzene
Concen: 54.932 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion: 95 Resp: 269562

Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	179.0
176	86.2	0.0	171.8



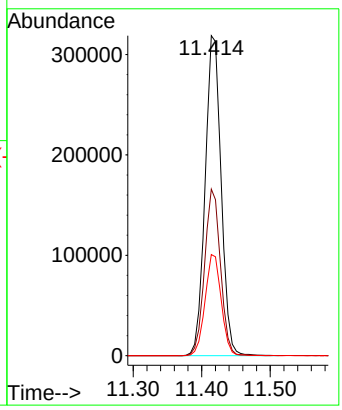


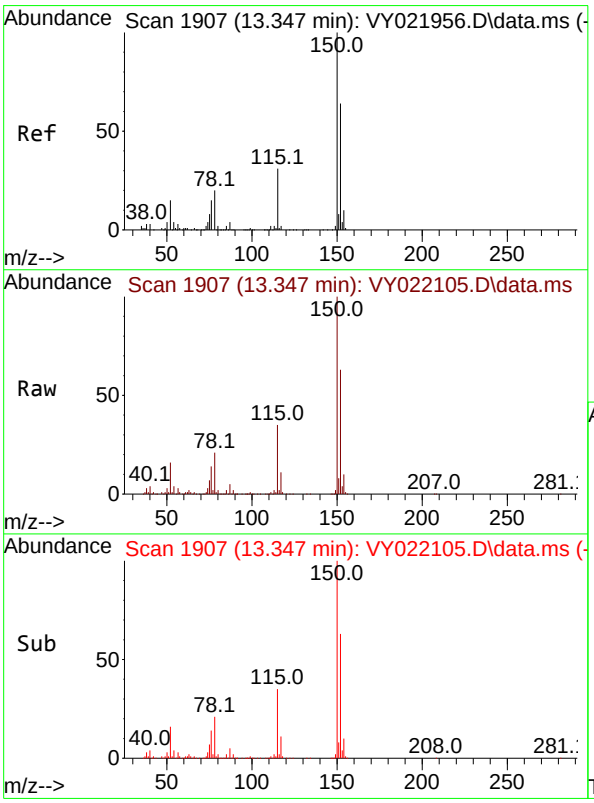
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion:117 Resp: 519369

Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.1	63.1
119	31.6	25.7	38.5

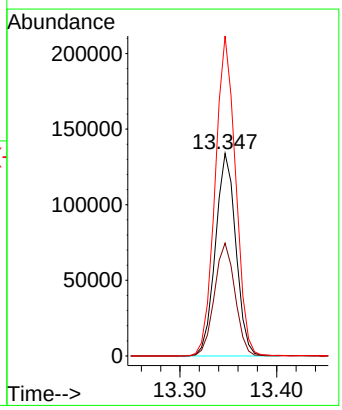




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion:152 Resp: 196391

Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.0	84.0
150	158.2	0.0	345.6



Sample Results: **VY022105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022105.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	465	474	484	rVB5	7040	22569	1.27%	0.250%
2	7.634	959	970	976	rBV	266775	648695	36.62%	7.195%
3	7.707	976	982	996	rVB	397528	893839	50.45%	9.914%
4	8.061	1030	1040	1051	rBV	196876	433782	24.49%	4.811%
5	8.616	1122	1131	1145	rBV	657004	1283538	72.45%	14.236%
6	10.109	1368	1376	1390	rBV	1017914	1771561	100.00%	19.648%
7	11.414	1581	1590	1603	rBV	905873	1482936	83.71%	16.447%
8	12.408	1745	1753	1766	rBV	897673	1360181	76.78%	15.086%
9	13.347	1900	1907	1916	rBV	754380	1119179	63.17%	12.413%

Sum of corrected areas: 9016280

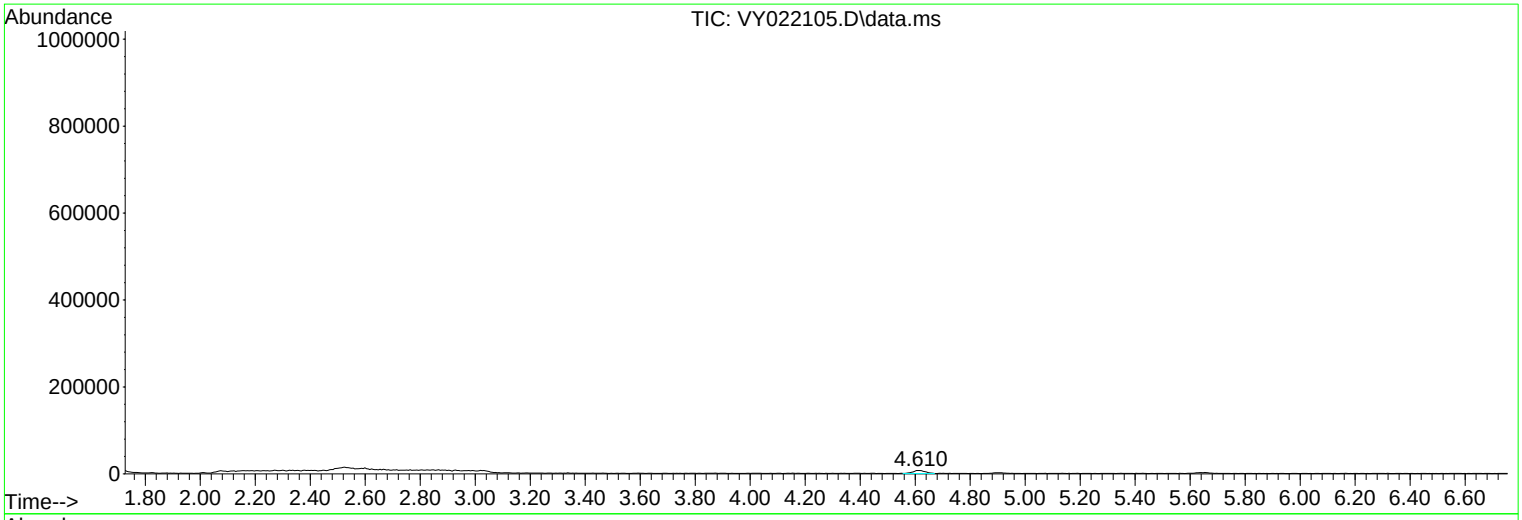
Sample Results: **VY022105.D**

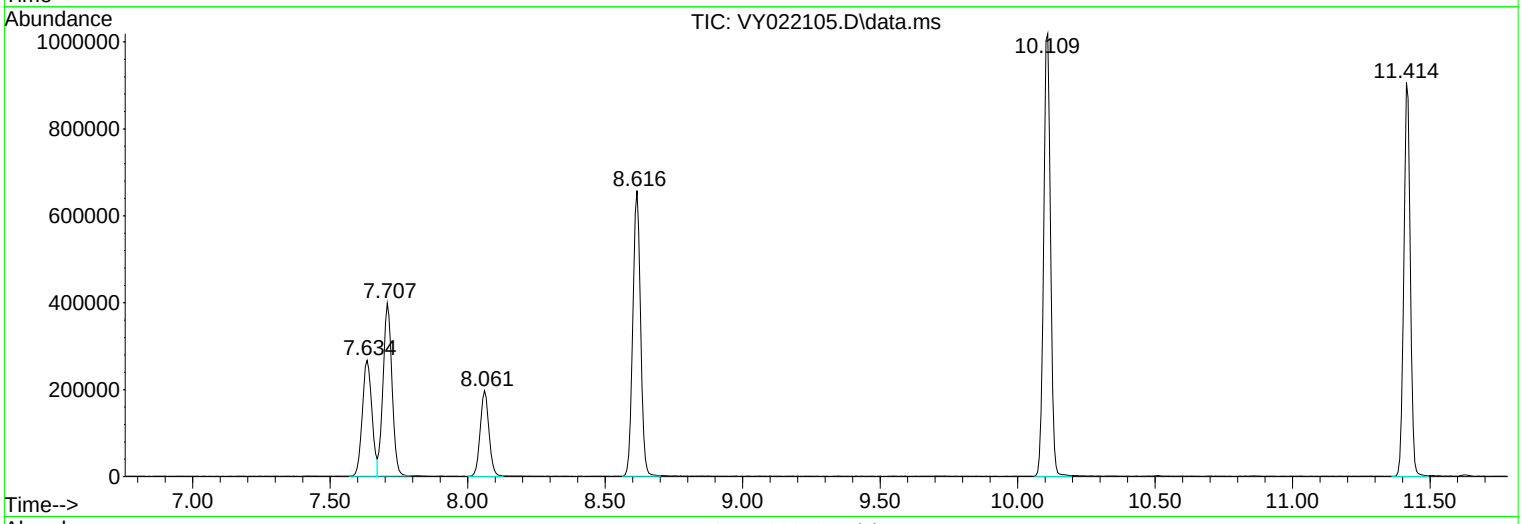
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

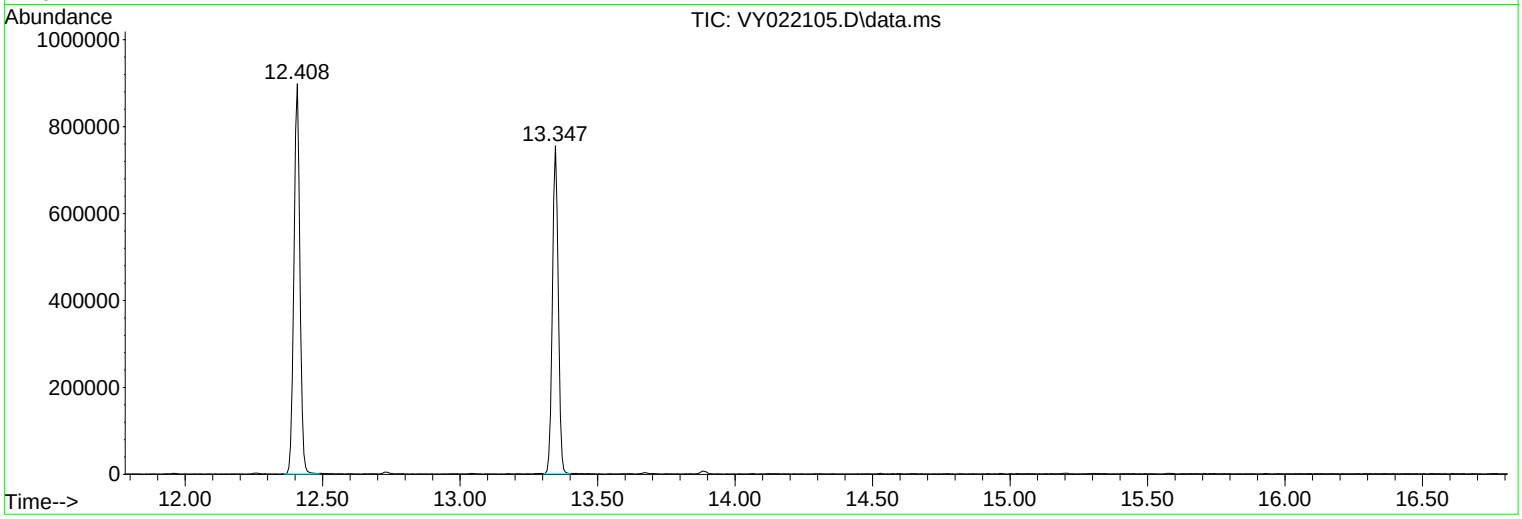
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY022105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Time: May 01 01:38:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	348376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	652384	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	556238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	176600	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	171544	53.310	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.620%			
35) Dibromofluoromethane	7.628	113	220356	51.127	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.260%			
50) Toluene-d8	10.103	98	774744	47.680	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.360%			
62) 4-Bromofluorobenzene	12.402	95	197352	36.079	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.160%			

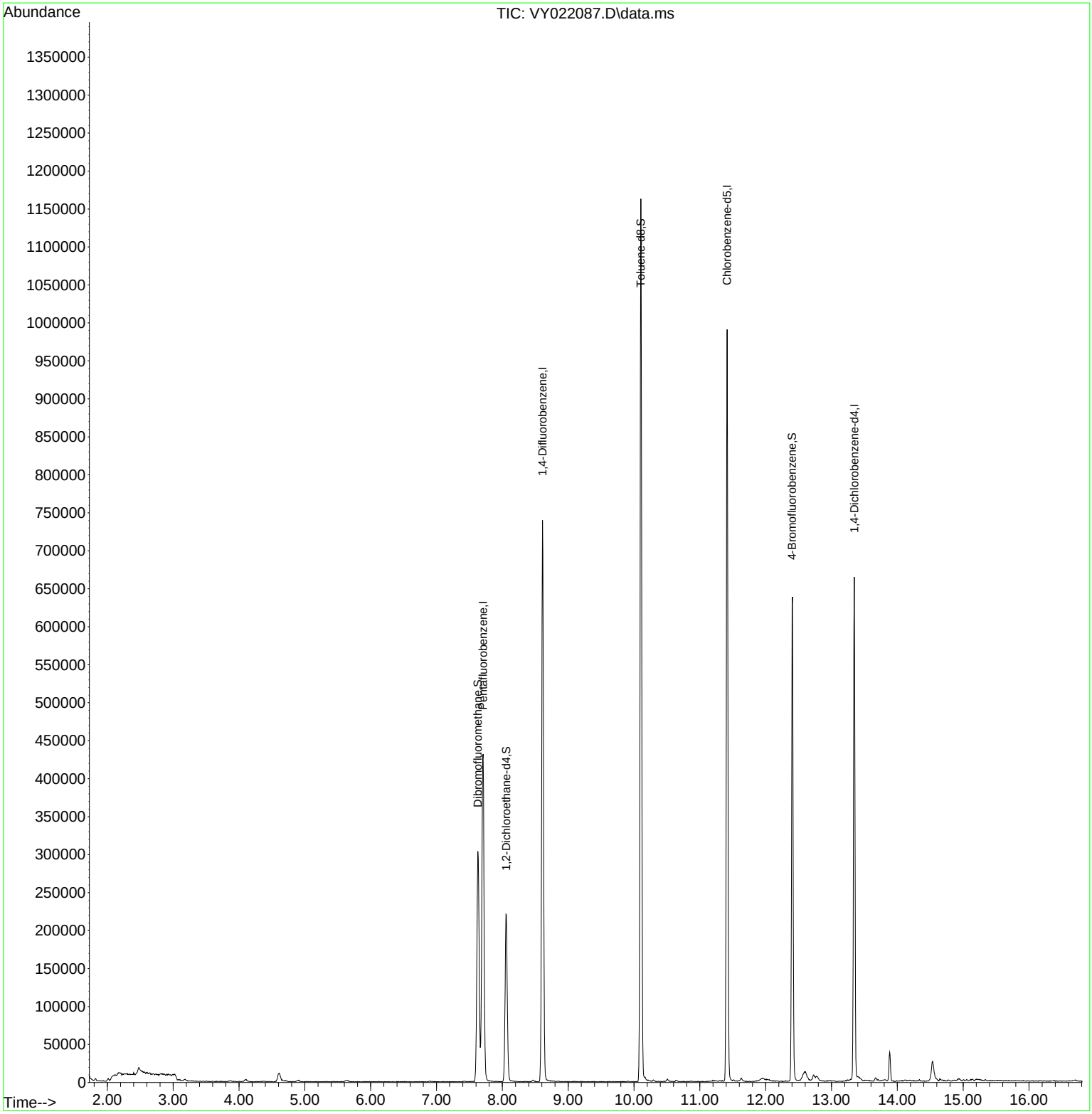
Target Compounds Qvalue

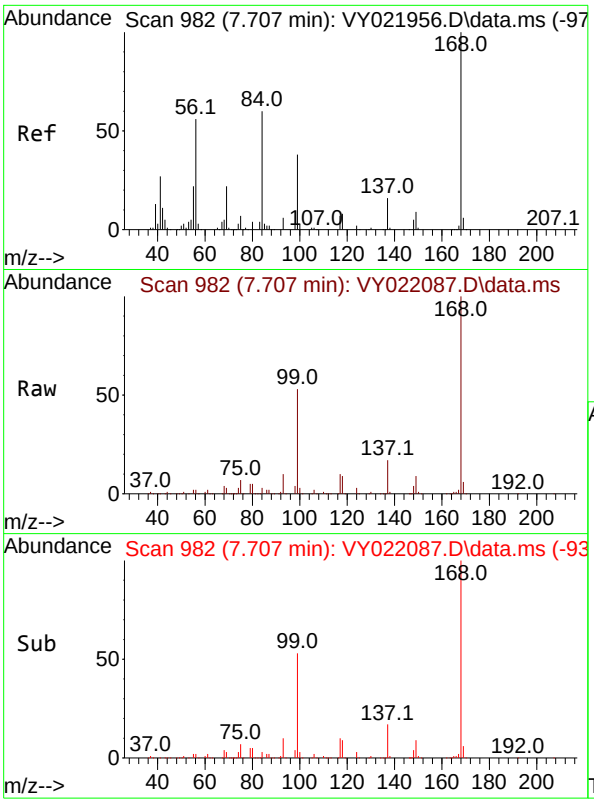
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Time: May 01 01:38:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



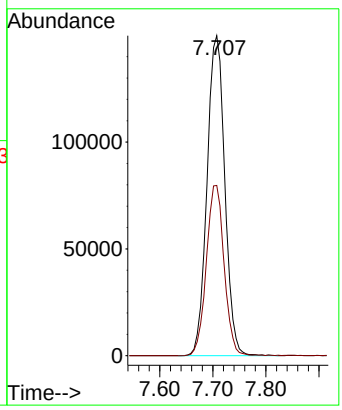


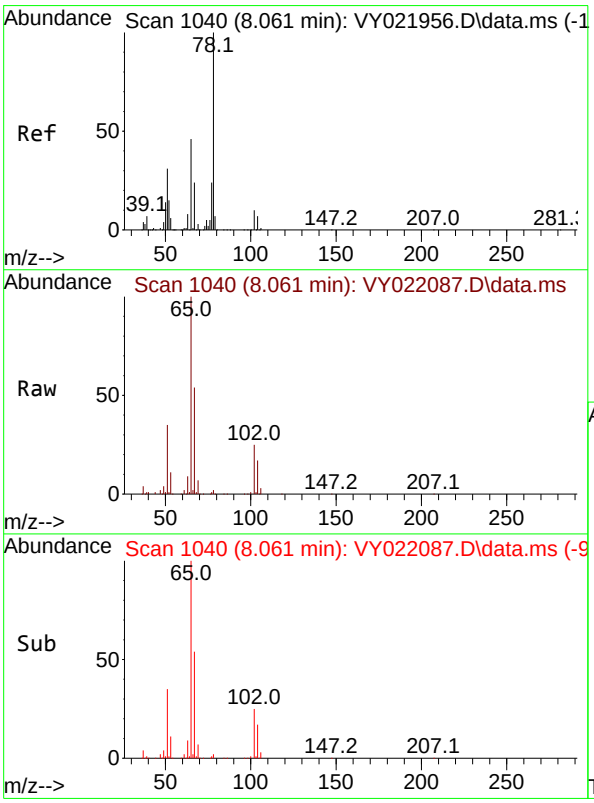
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Tgt Ion:168 Resp: 348376

Ion	Ratio	Lower	Upper
168	100		
99	53.2	43.1	64.7

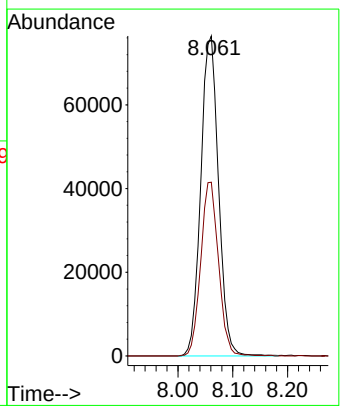


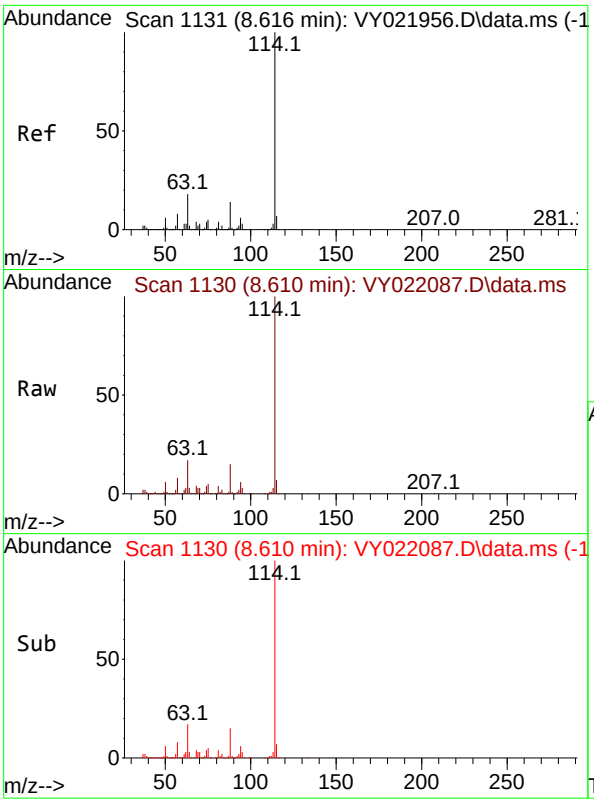


#33
1,2-Dichloroethane-d4
Concen: 53.310 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 65 Resp: 171544

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.8



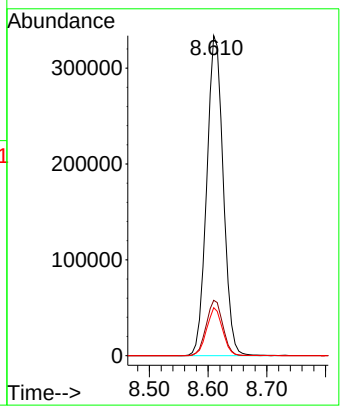


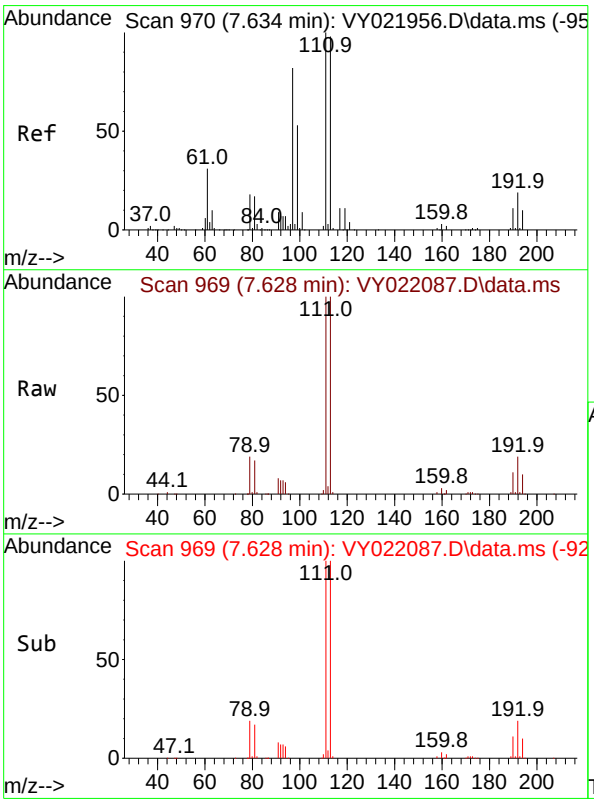
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Tgt Ion:114 Resp: 652384

Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	35.4
88	15.0	0.0	28.2

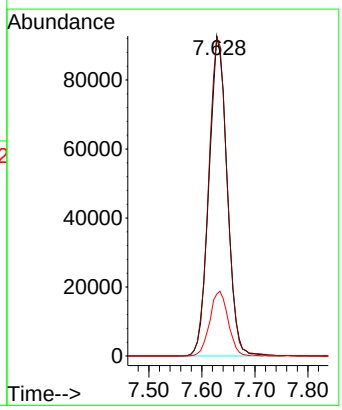


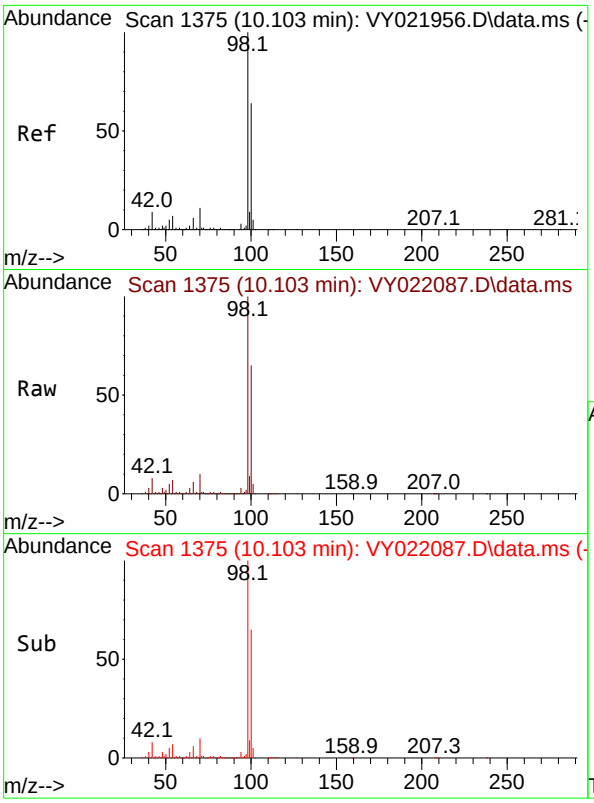


#35
Dibromofluoromethane
Concen: 51.127 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion:113 Resp: 220356

Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.8
192	20.5	15.6	23.4



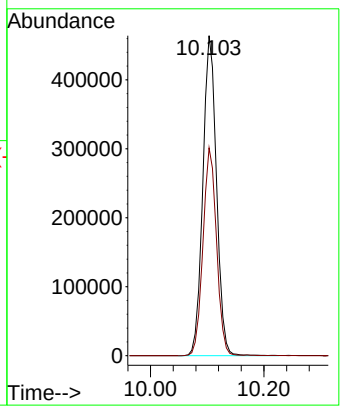


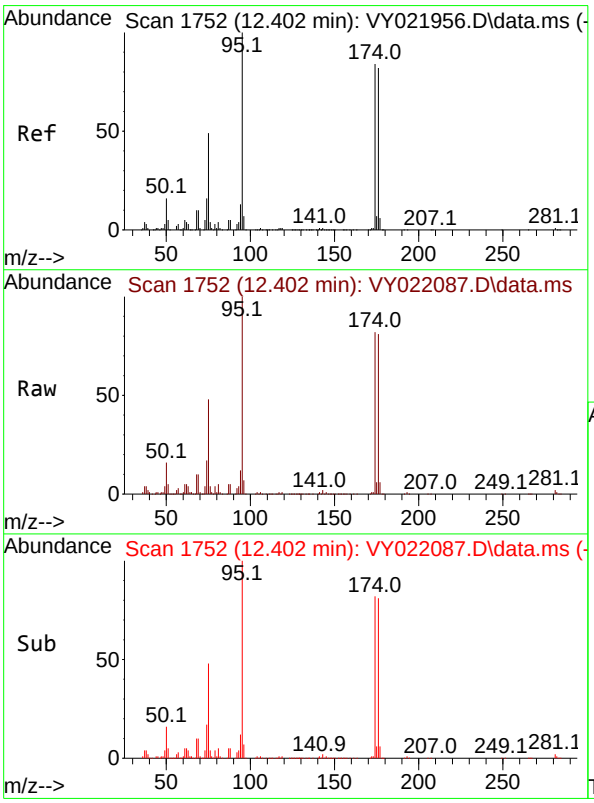
#50
Toluene-d8
Concen: 47.680 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Tgt Ion: 98 Resp: 774744

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4

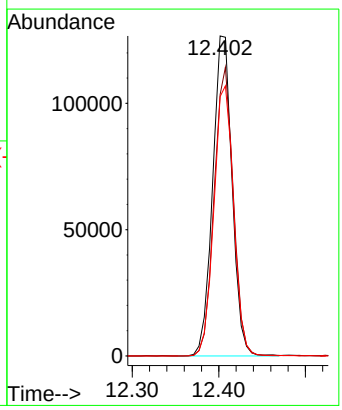


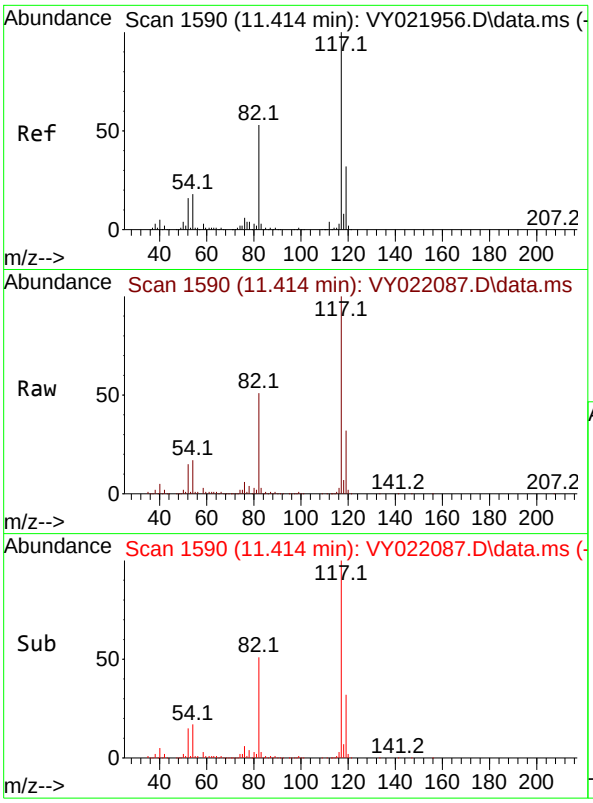


#62
4-Bromofluorobenzene
Concen: 36.079 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 95 Resp: 197352

Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	179.0
176	85.9	0.0	171.8



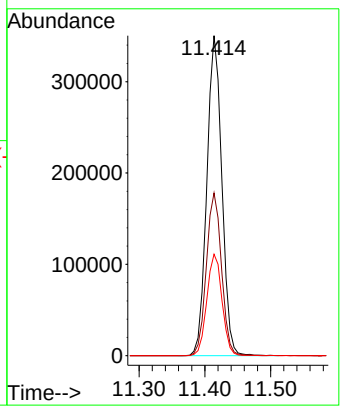


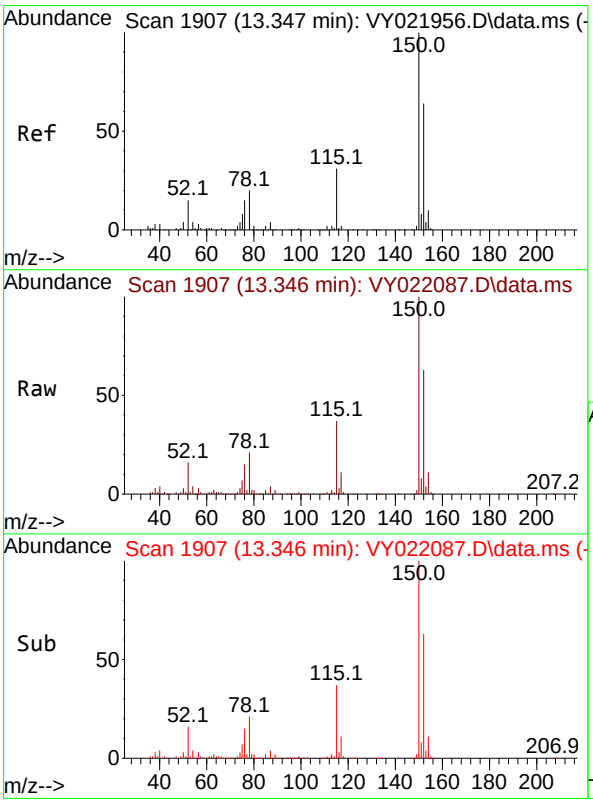
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Tgt Ion:117 Resp: 556238

Ion	Ratio	Lower	Upper
117	100		
82	50.8	42.1	63.1
119	31.7	25.7	38.5

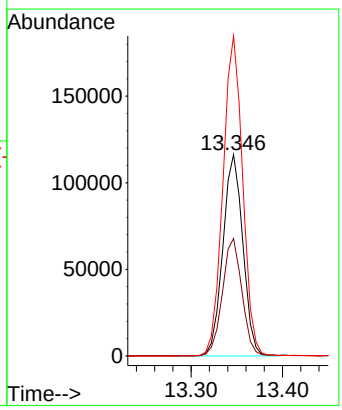




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion:152 Resp: 176600

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.0	84.0
150	156.7	0.0	345.6



Sample Results: **VY022087.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022087.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	466	474	486	rBV3	10797	33974	1.73%	0.360%
2	7.628	960	969	975	rBV	303091	717981	36.65%	7.598%
3	7.707	975	982	995	rVB	430331	1006973	51.40%	10.656%
4	8.055	1029	1039	1053	rBV	220335	507154	25.89%	5.367%
5	8.610	1121	1130	1145	rBV	738952	1430705	73.03%	15.141%
6	10.103	1366	1375	1384	rBV	1162637	1959042	100.00%	20.732%
7	11.414	1581	1590	1603	rBV	989968	1589638	81.14%	16.822%
8	12.408	1745	1753	1764	rBV	637371	1033090	52.73%	10.933%
9	12.584	1772	1782	1783	rBV5	10844	22801	1.16%	0.241%
10	13.346	1900	1907	1914	rBV	661155	1006788	51.39%	10.654%
11	13.883	1990	1995	2001	rVB	37935	61829	3.16%	0.654%
12	14.535	2091	2102	2116	rBV2	26000	79525	4.06%	0.842%

Sum of corrected areas: 9449500

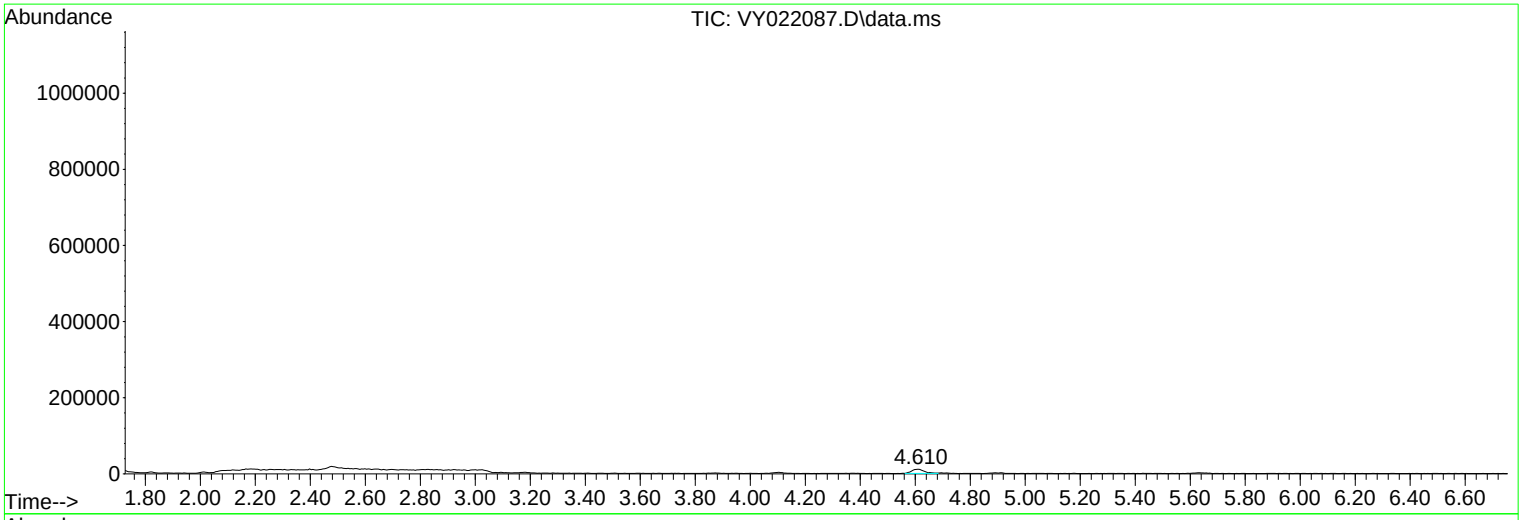
Sample Results: **VY022087.D**

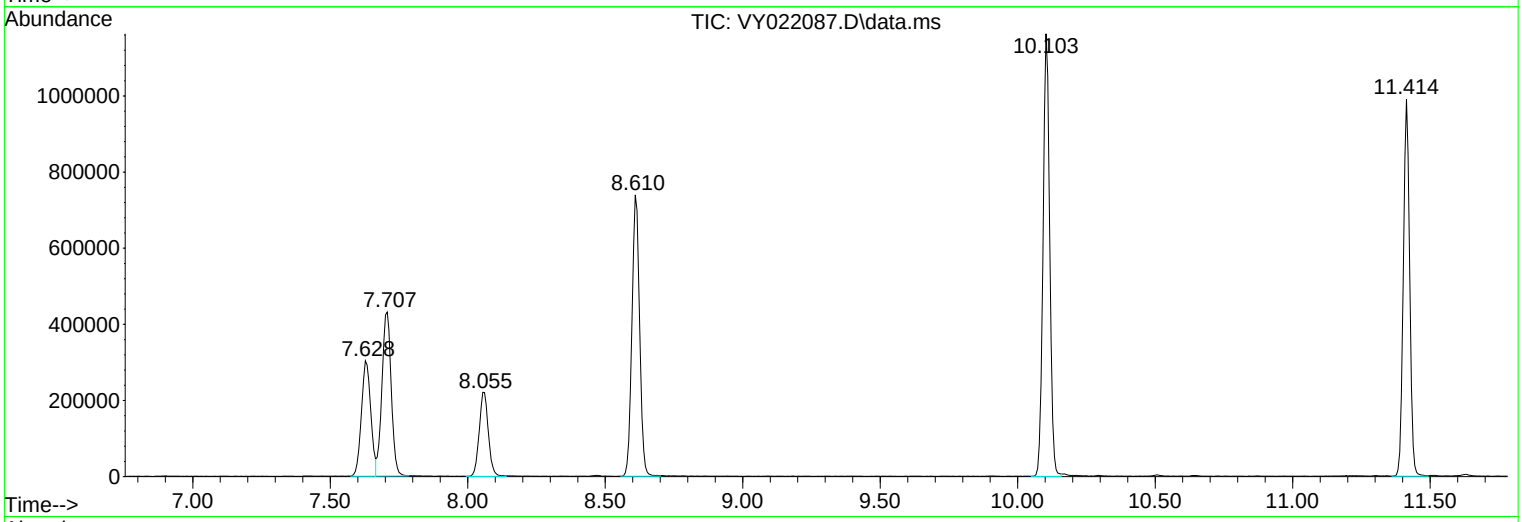
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

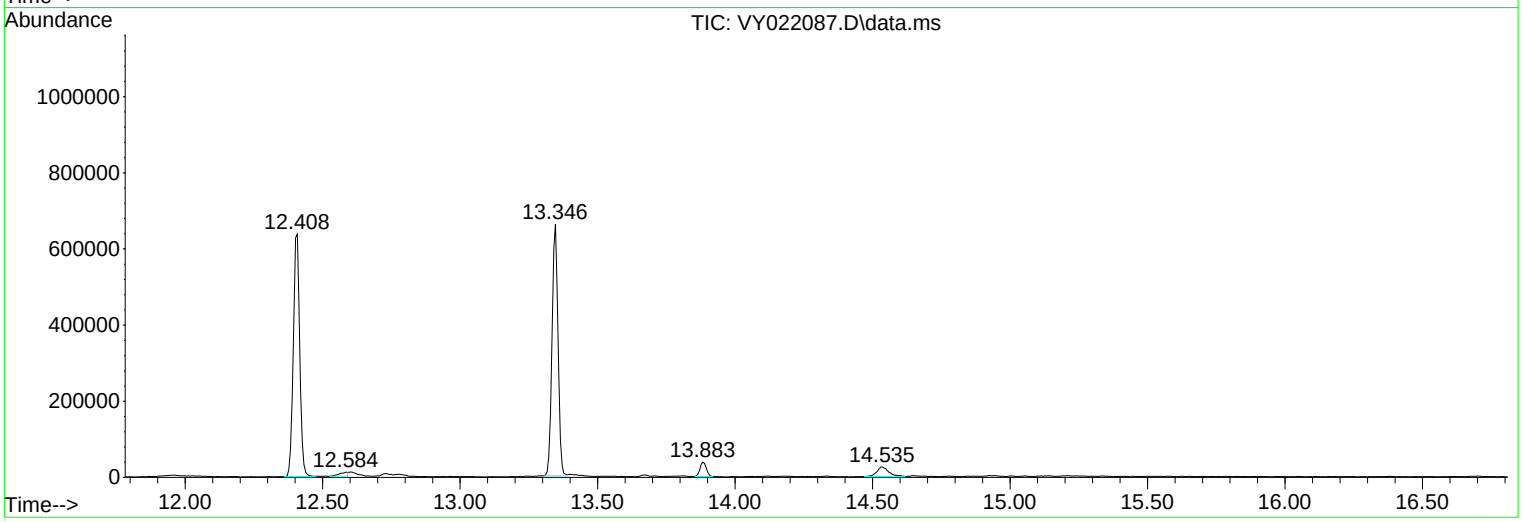
Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Time: May 02 01:30:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	307701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	584162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	521346	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	197125	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	156205	54.960	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.920%			
35) Dibromofluoromethane	7.634	113	198196	51.356	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.720%			
50) Toluene-d8	10.109	98	696993	47.905	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.800%			
62) 4-Bromofluorobenzene	12.407	95	276478	56.448	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 112.900%			

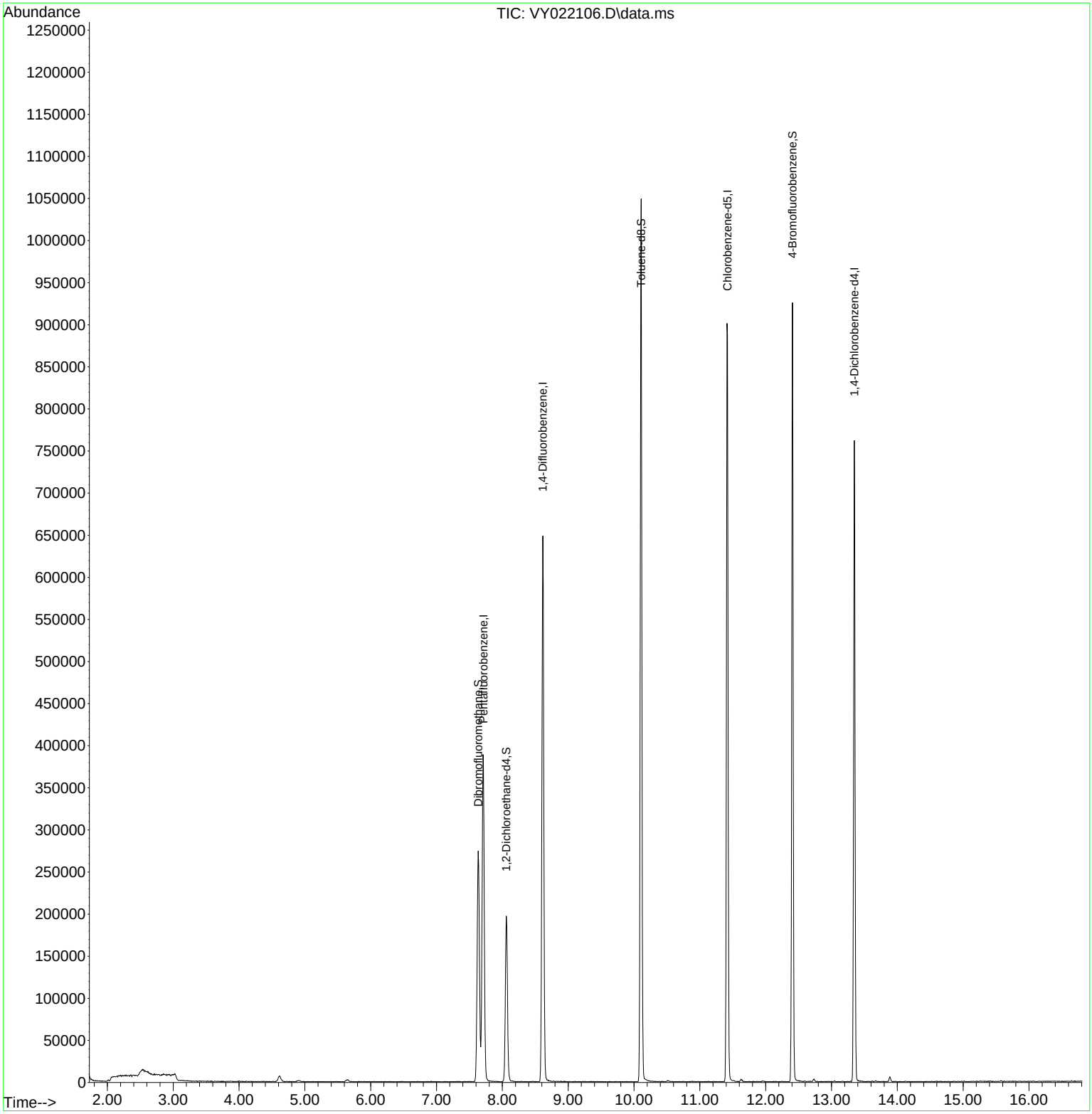
Target Compounds Qvalue

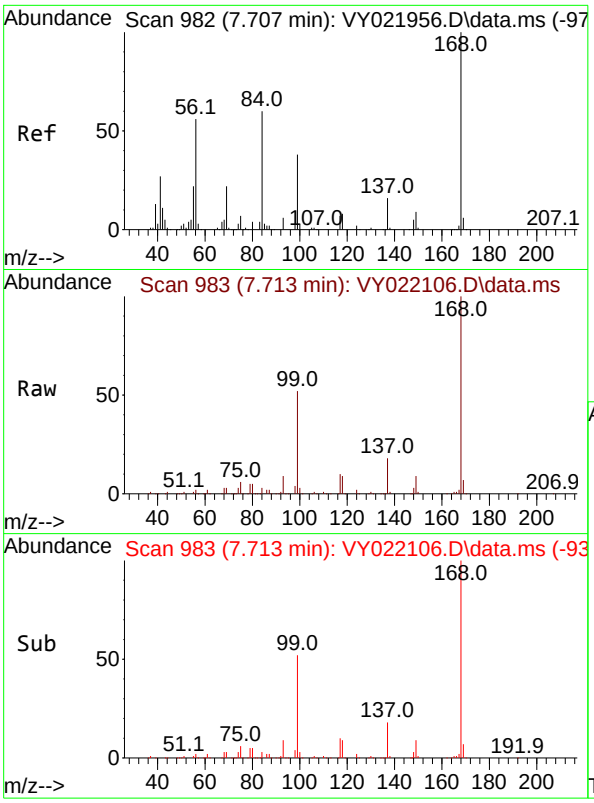
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Time: May 02 01:30:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



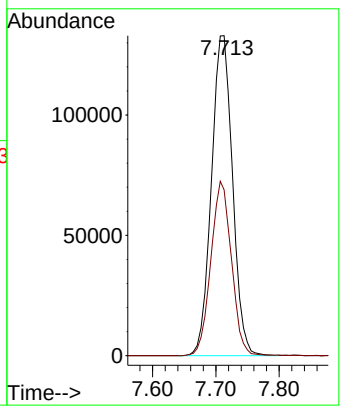


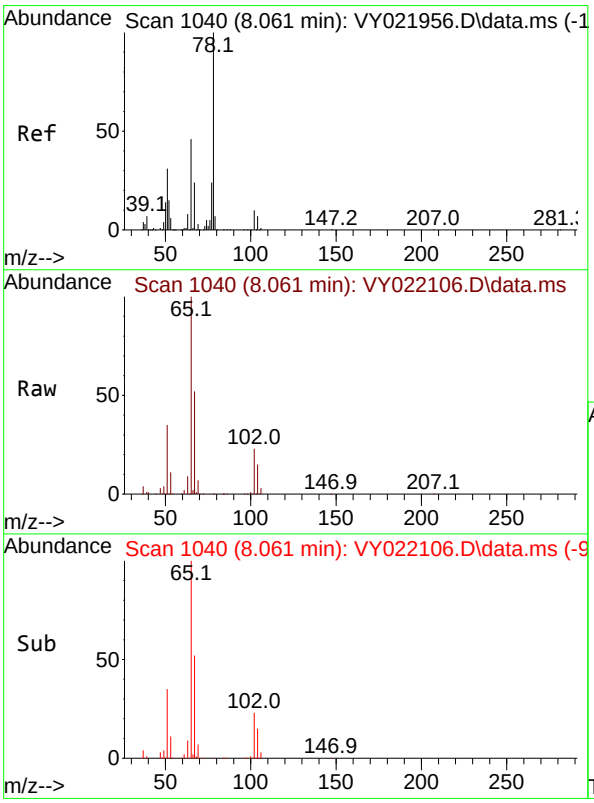
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion:168 Resp: 307701

Ion	Ratio	Lower	Upper
168	100		
99	51.8	43.1	64.7

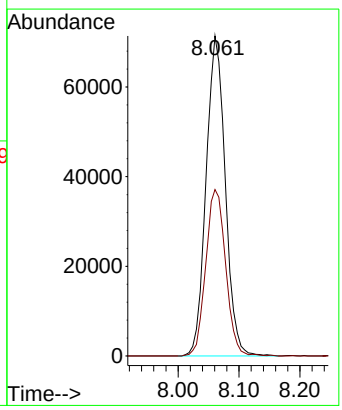


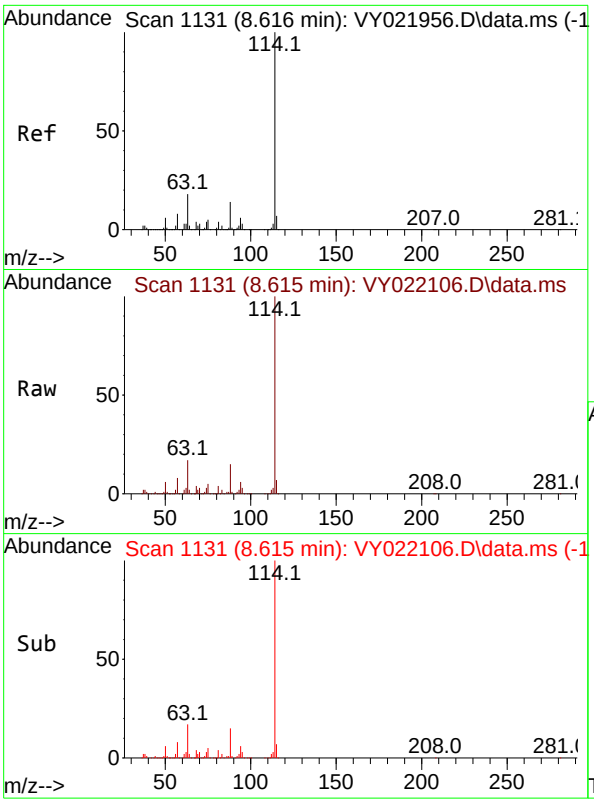


#33
1,2-Dichloroethane-d4
Concen: 54.960 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion: 65 Resp: 156205

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.8



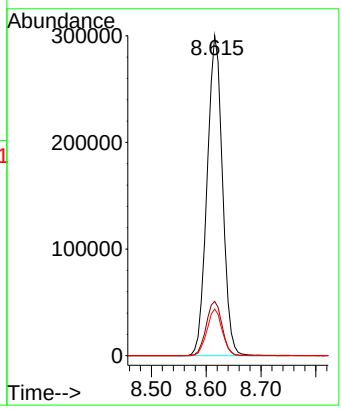


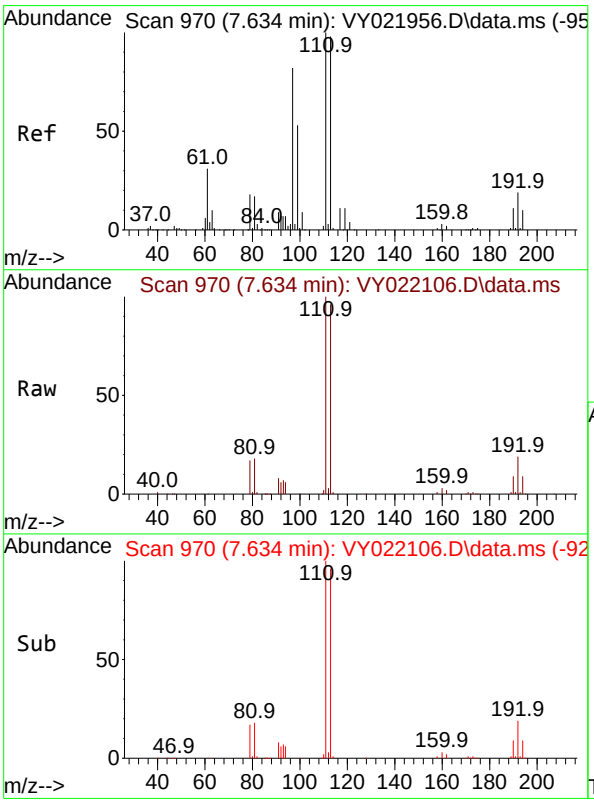
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion:114 Resp: 584162

Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	35.4
88	14.6	0.0	28.2

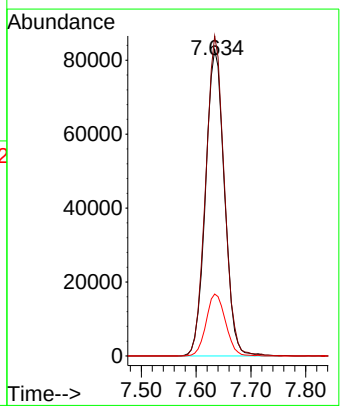


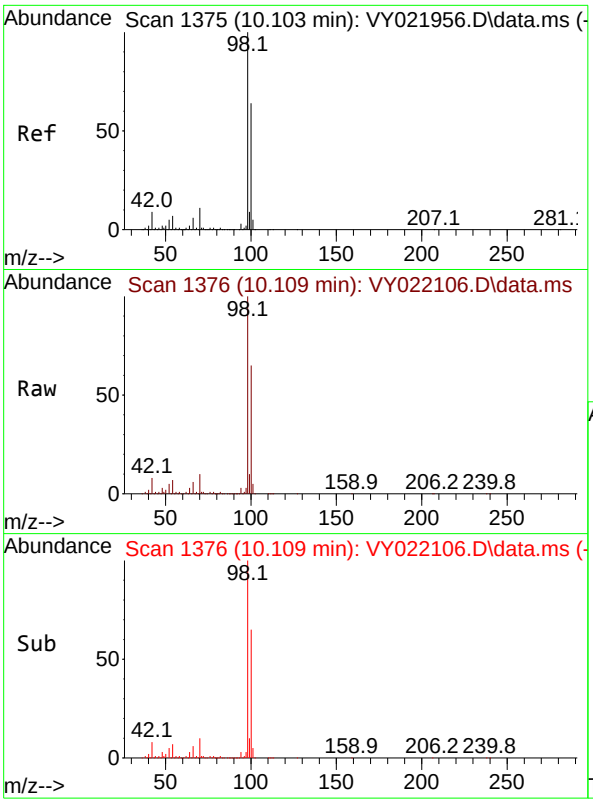


#35
Dibromofluoromethane
Concen: 51.356 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion:113 Resp: 198196

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.8
192	20.8	15.6	23.4



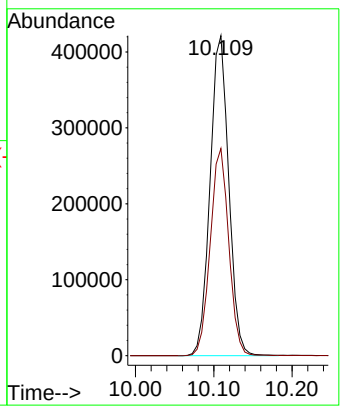


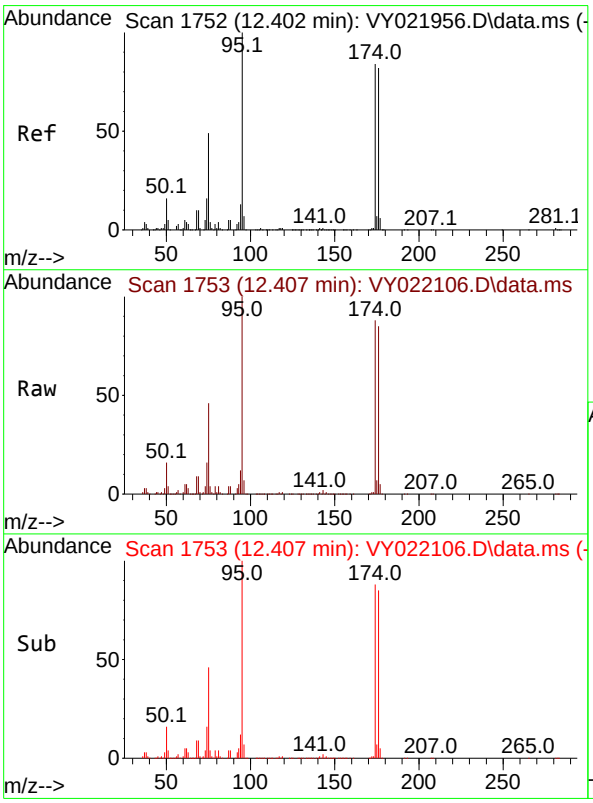
#50
Toluene-d8
Concen: 47.905 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion: 98 Resp: 696993

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4

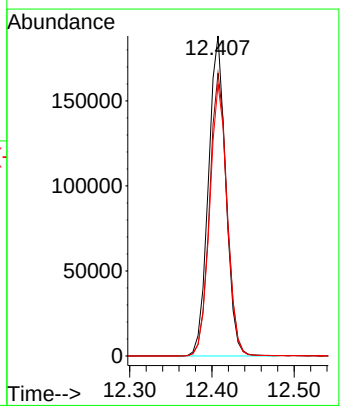


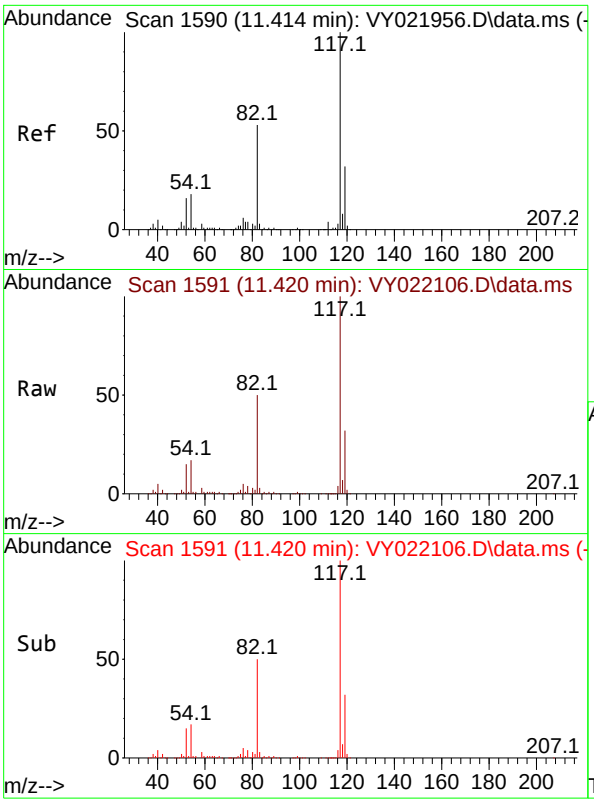


#62
4-Bromofluorobenzene
Concen: 56.448 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion: 95 Resp: 276478

Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	179.0
176	85.3	0.0	171.8



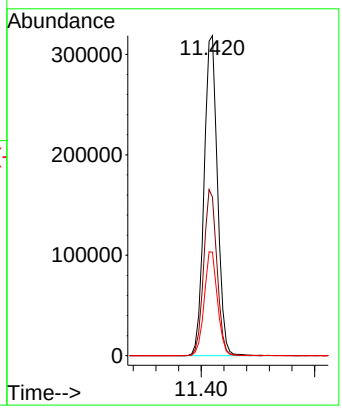


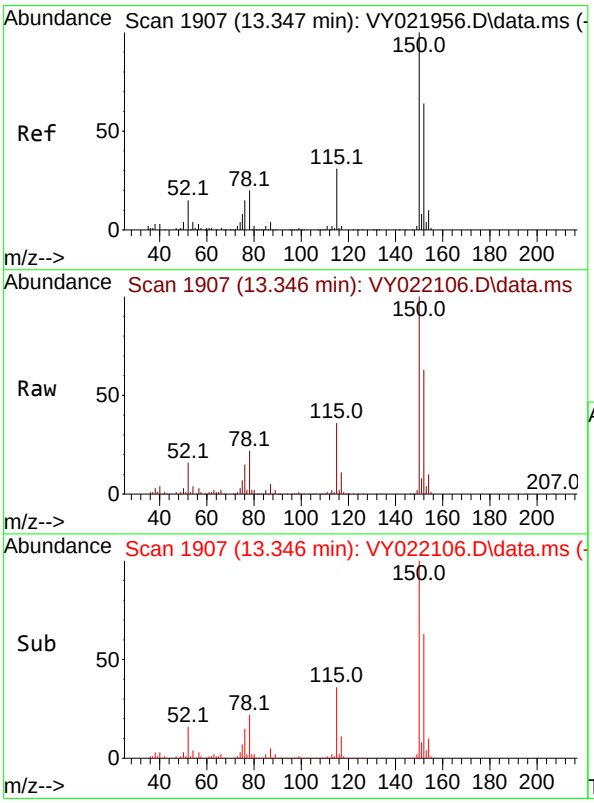
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion:117 Resp: 521346

Ion	Ratio	Lower	Upper
117	100		
82	49.5	42.1	63.1
119	32.4	25.7	38.5

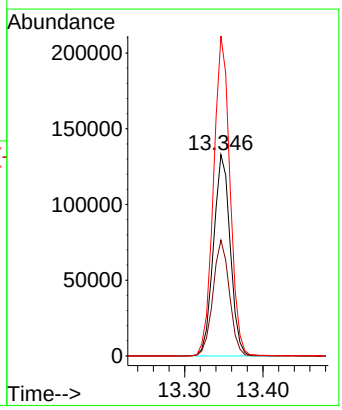




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion:152 Resp: 197125

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.0	84.0
150	156.6	0.0	345.6



Sample Results: **VY022106.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022106.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.537	121	134	135	rBV10	7895	24776	1.40%	0.273%
2	4.616	464	475	484	rBV3	7008	21743	1.23%	0.240%
3	7.634	960	970	976	rBV	273875	653719	37.01%	7.204%
4	7.707	976	982	996	rVB	387917	888752	50.32%	9.794%
5	8.061	1030	1040	1053	rBV	196710	442842	25.07%	4.880%
6	8.615	1122	1131	1142	rBV	648317	1273587	72.11%	14.035%
7	10.109	1366	1376	1394	rBV	1048811	1766285	100.00%	19.464%
8	11.414	1582	1590	1604	rBV	900719	1484318	84.04%	16.357%
9	12.407	1744	1753	1765	rBV	925787	1393935	78.92%	15.361%
10	13.346	1900	1907	1917	rBV	761599	1124448	63.66%	12.391%

Sum of corrected areas: 9074405

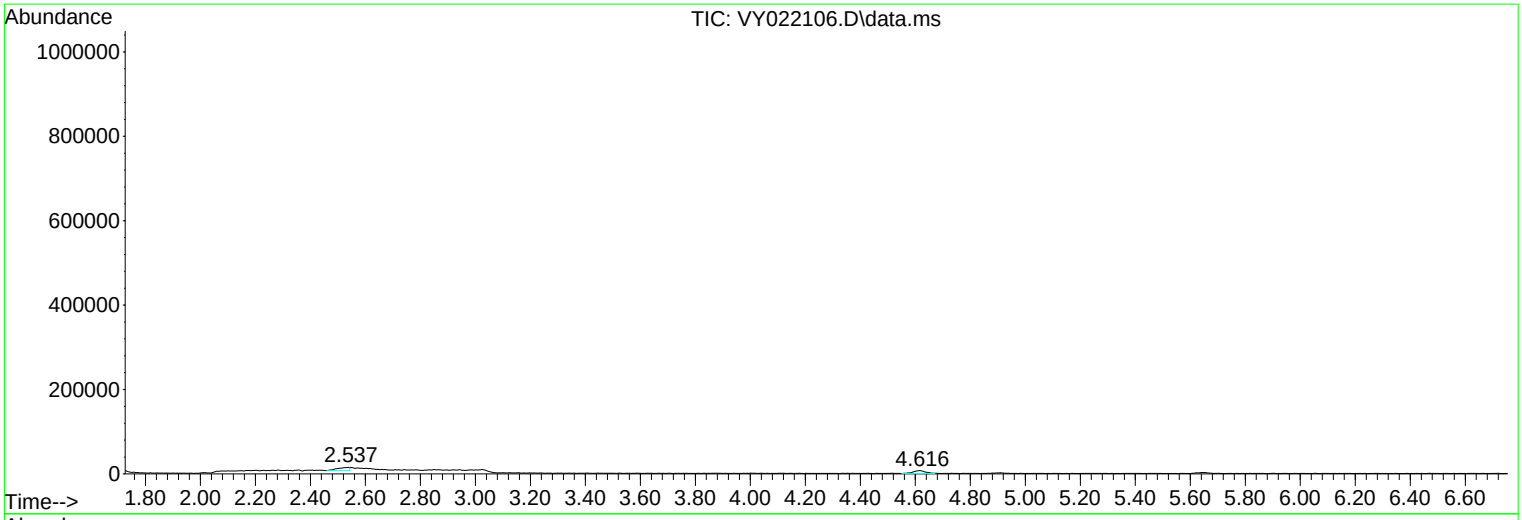
Sample Results: **VY022106.D**

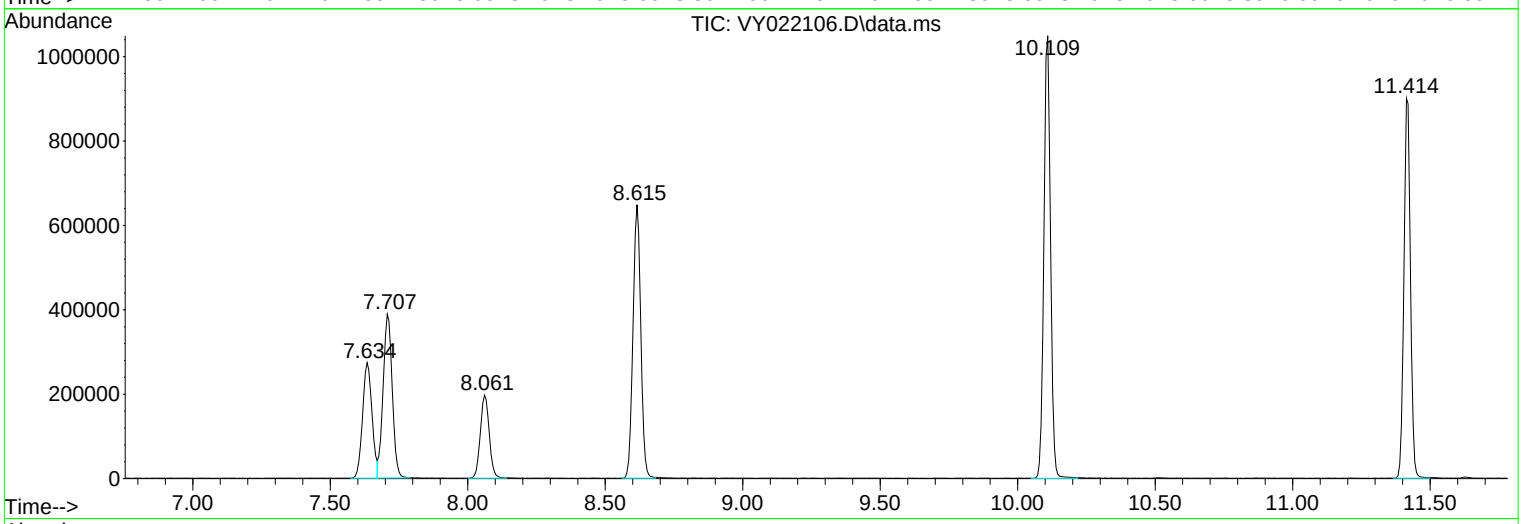
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

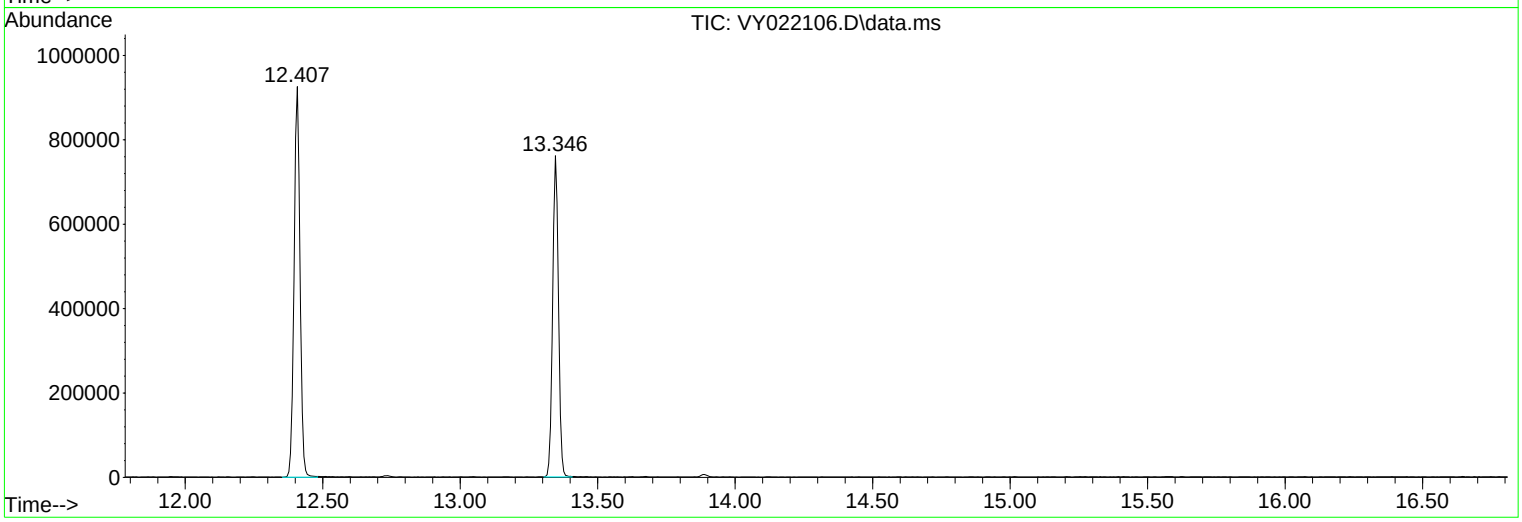
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY022106.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Time: May 01 01:39:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

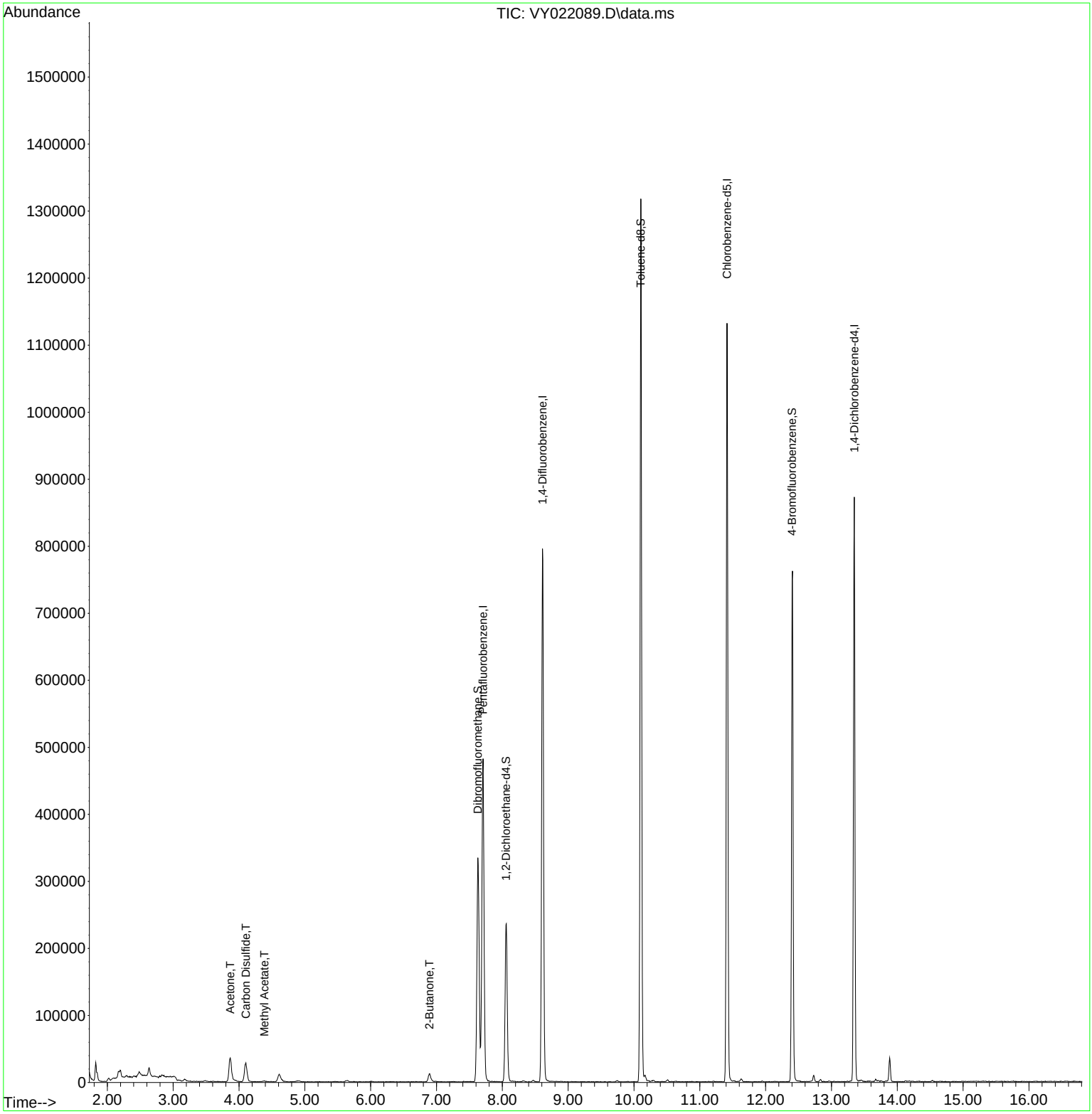
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	381091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	712829	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	629182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	233488	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	188495	53.549	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.100%			
35) Dibromofluoromethane	7.628	113	240173	50.999	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.000%			
50) Toluene-d8	10.103	98	847633	47.743	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.480%			
62) 4-Bromofluorobenzene	12.401	95	235165	39.347	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 78.700%			
Target Compounds						Qvalue
16) Acetone	3.866	43	62048	123.893	ug/l	98
17) Carbon Disulfide	4.104	76	59112	4.894	ug/l	99
18) Methyl Acetate	4.385	43	2398	1.458	ug/l #	72
25) 2-Butanone	6.890	43	18807	23.439	ug/l	94

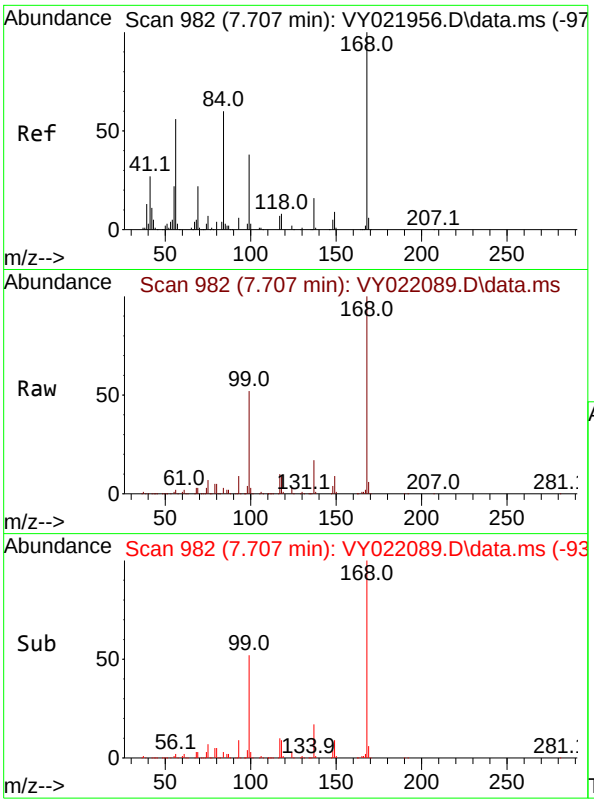
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Time: May 01 01:39:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



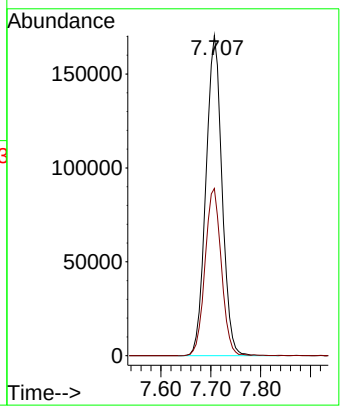


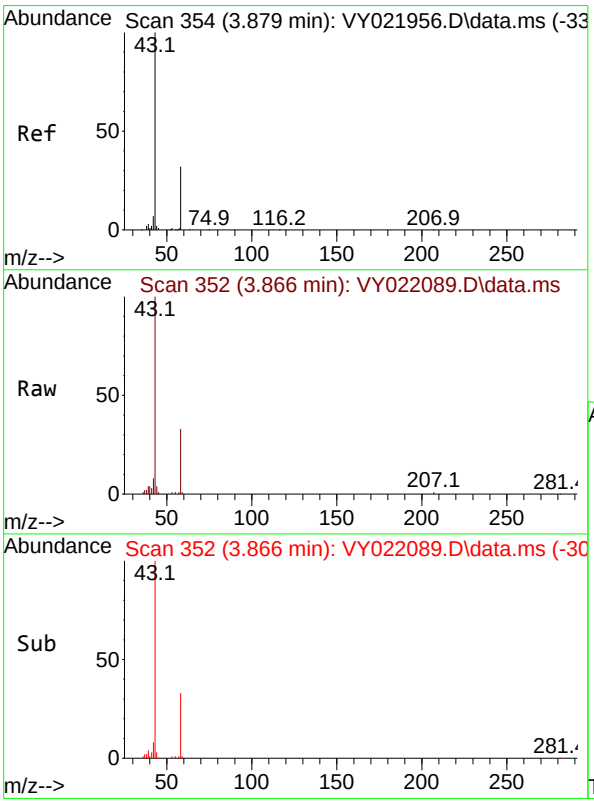
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Tgt Ion:168 Resp: 381091

Ion	Ratio	Lower	Upper
168	100		
99	52.3	43.1	64.7

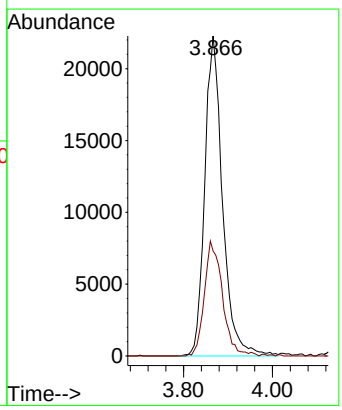


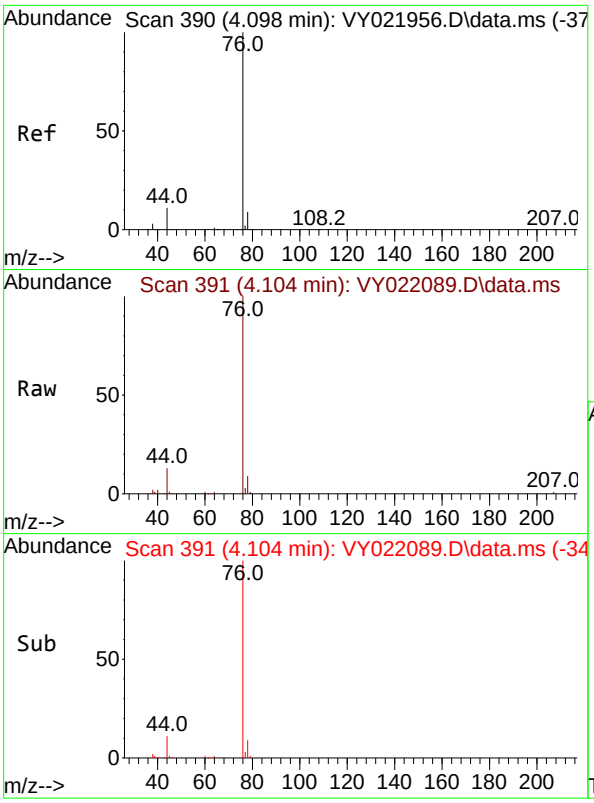


#16
Acetone
Concen: 123.893 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.013 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 43 Resp: 62048

Ion	Ratio	Lower	Upper
43	100		
58	32.8	27.0	40.4



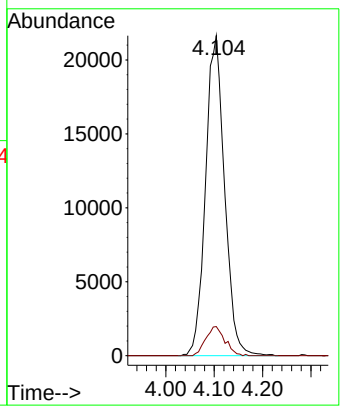


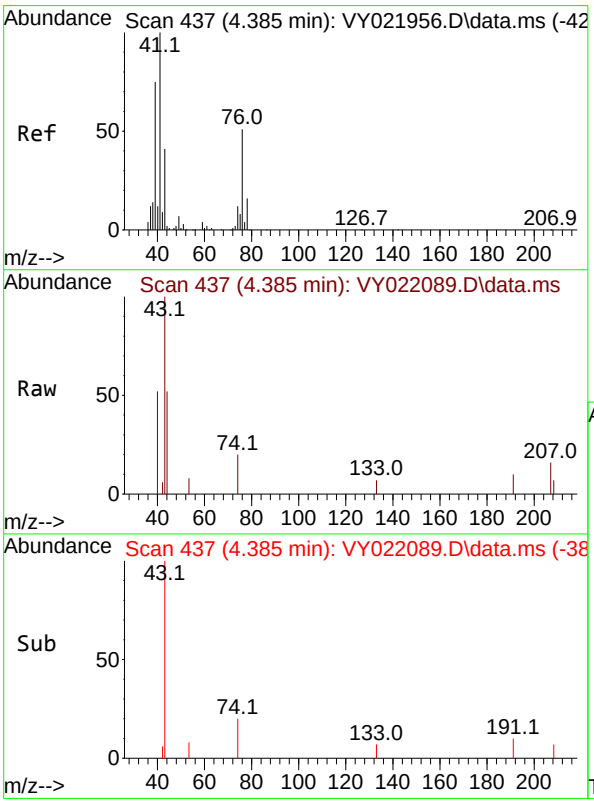
#17
Carbon Disulfide
Concen: 4.894 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Tgt Ion: 76 Resp: 59112

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.6	11.4

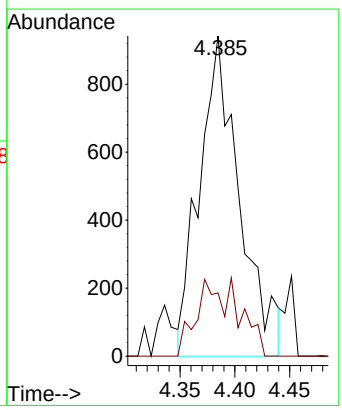


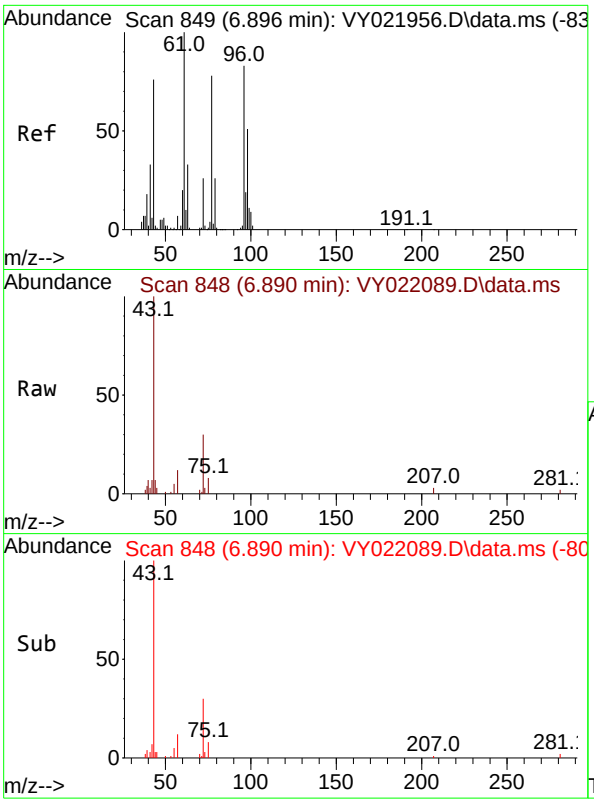


#18
Methyl Acetate
Concen: 1.458 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 43 Resp: 2398

Ion	Ratio	Lower	Upper
43	100		
74	15.2	24.2	36.4#



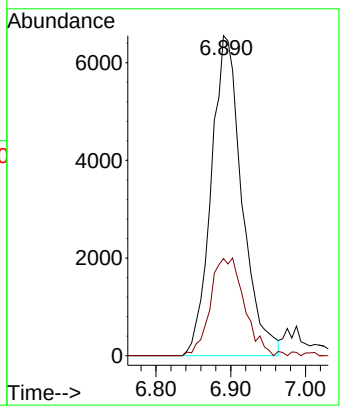


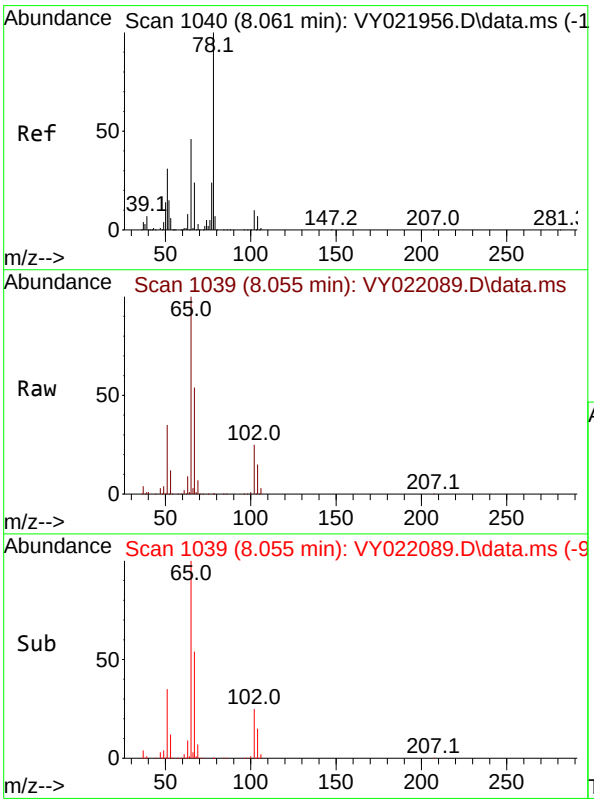
#25
2-Butanone
Concen: 23.439 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Tgt Ion: 43 Resp: 18807

Ion	Ratio	Lower	Upper
43	100		
72	30.3	27.0	40.4

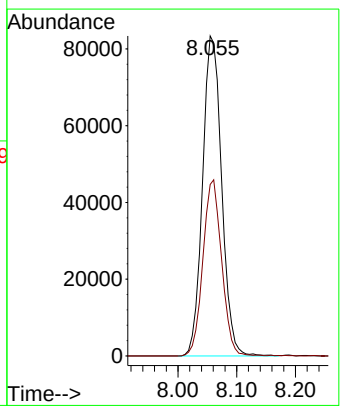


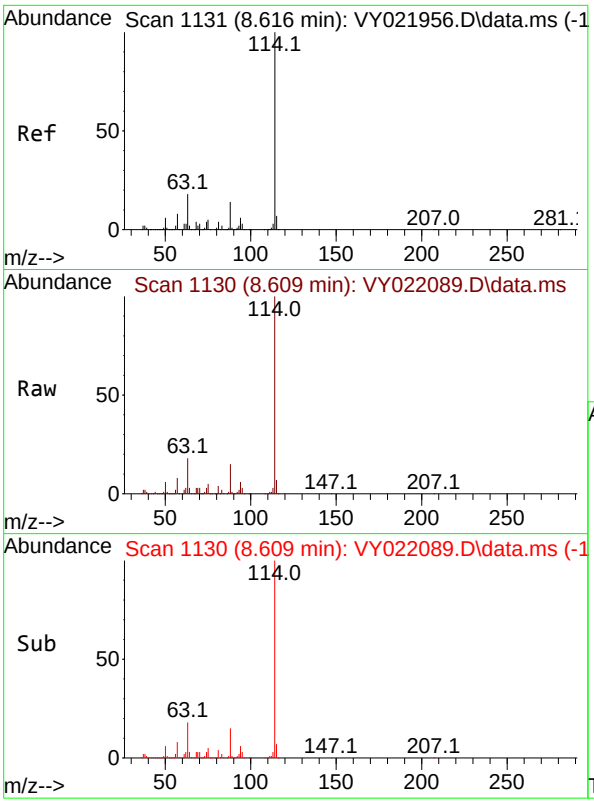


#33
1,2-Dichloroethane-d4
Concen: 53.549 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 65 Resp: 188495

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	105.8



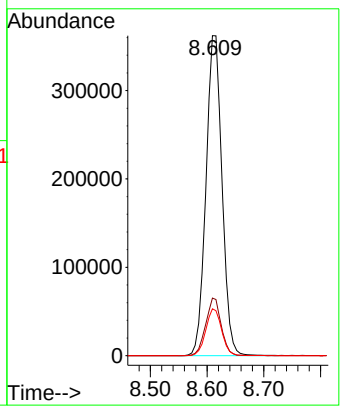


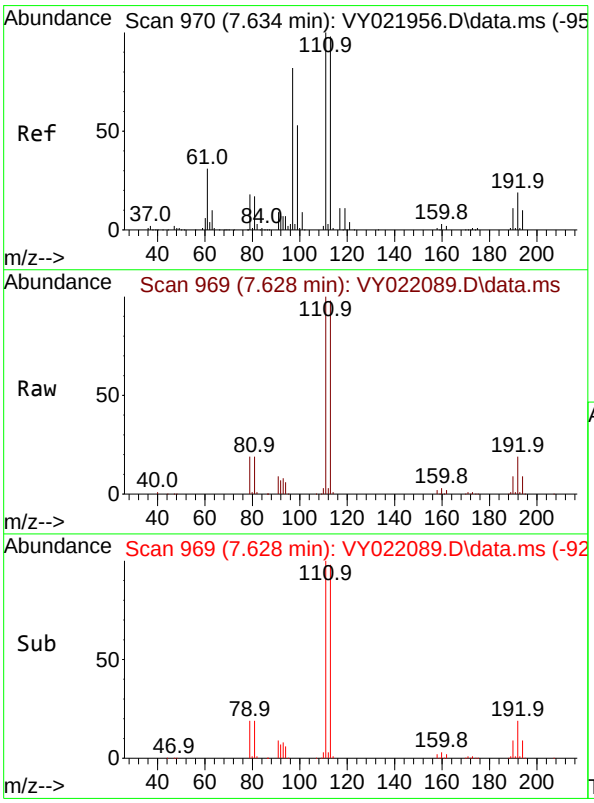
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Tgt Ion:114 Resp: 712829

Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	35.4
88	14.7	0.0	28.2

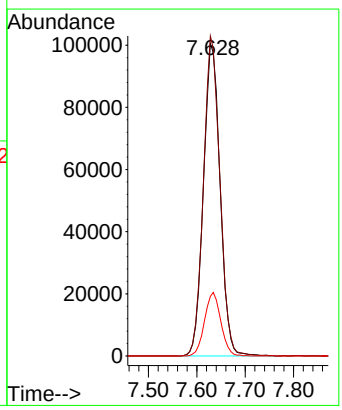


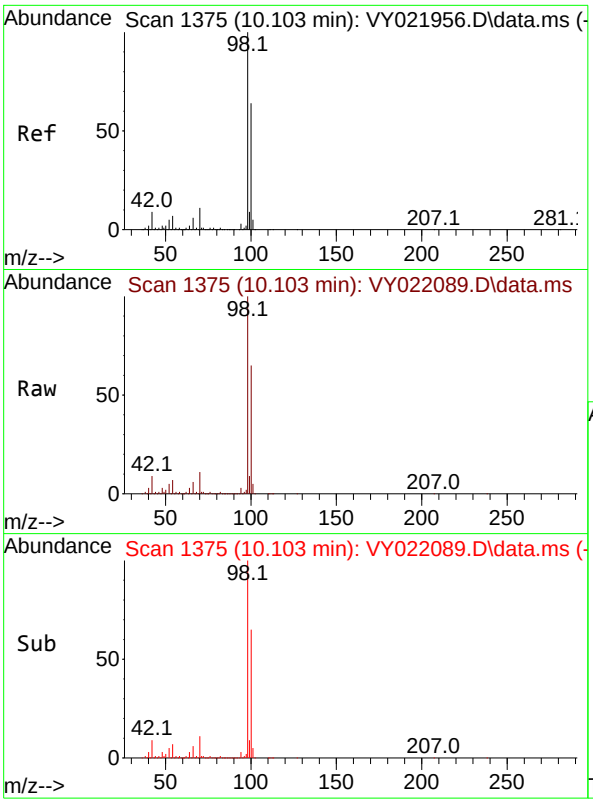


#35
Dibromofluoromethane
Concen: 50.999 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion:113 Resp: 240173

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	19.9	15.6	23.4



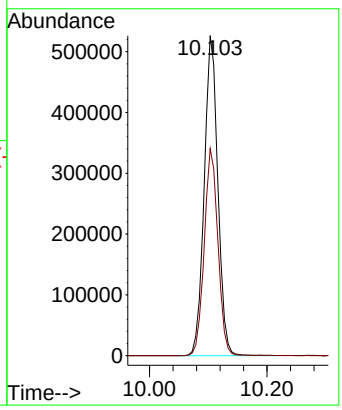


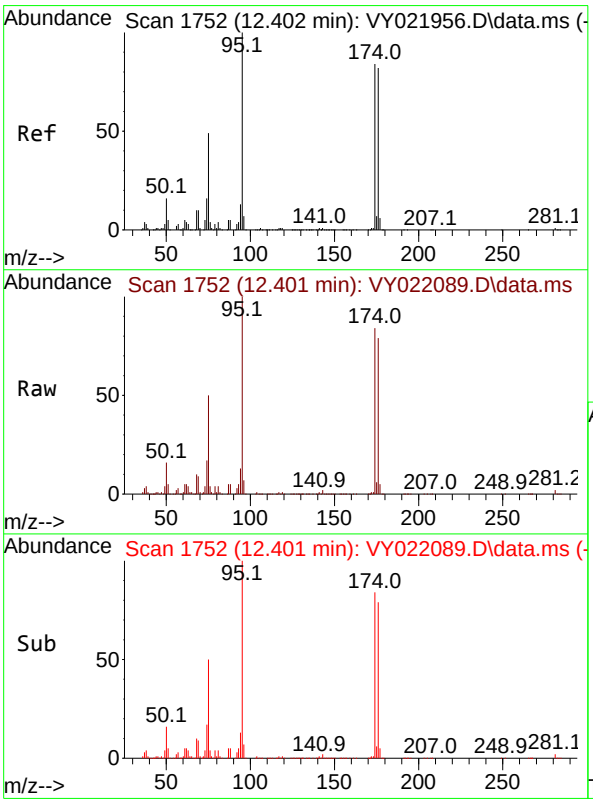
#50
Toluene-d8
Concen: 47.743 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Tgt Ion: 98 Resp: 847633

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.6	77.4

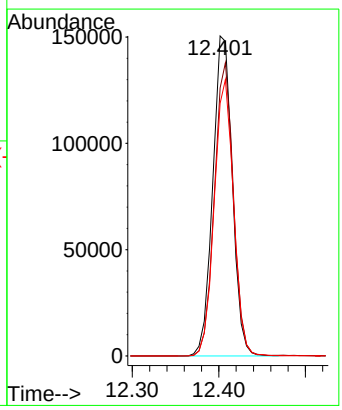


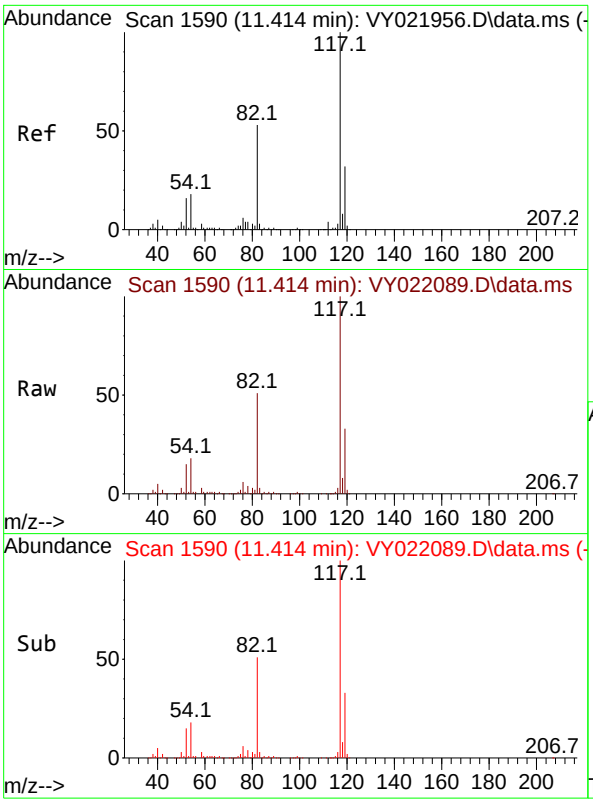


#62
4-Bromofluorobenzene
Concen: 39.347 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 95 Resp: 235165

Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	179.0
176	85.7	0.0	171.8



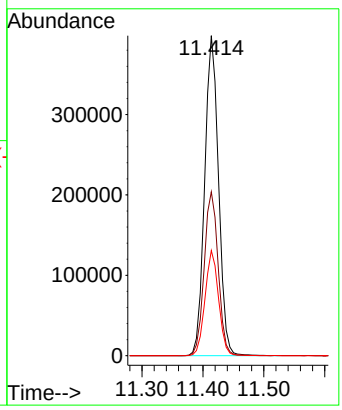


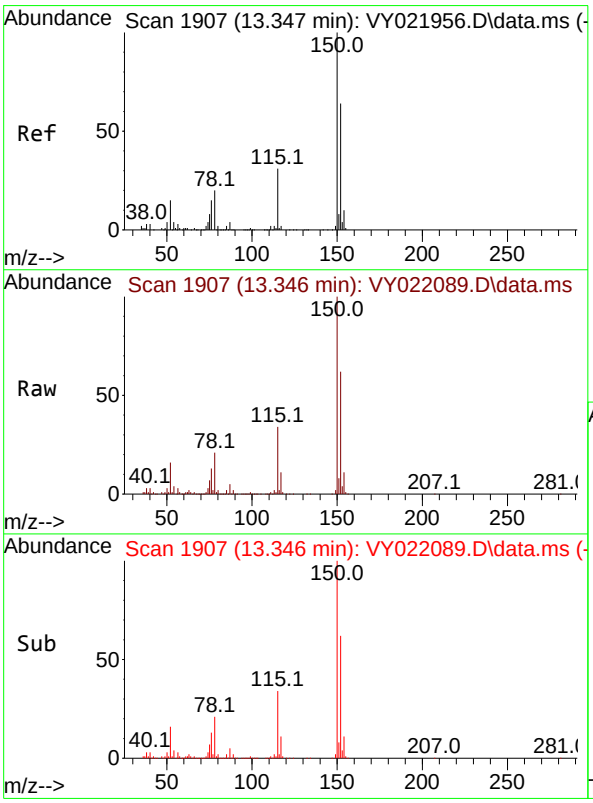
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Tgt Ion:117 Resp: 629182

Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.1	63.1
119	32.8	25.7	38.5

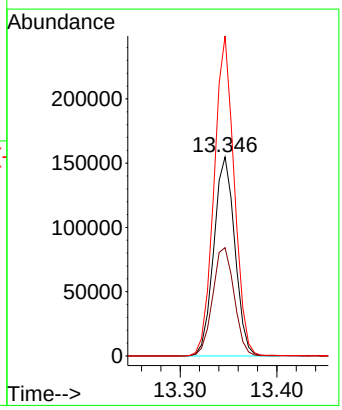




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion:152 Resp: 233488

Ion	Ratio	Lower	Upper
152	100		
115	55.7	28.0	84.0
150	154.3	0.0	345.6



Sample Results: **VY022089.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022089.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% of max.	% of total
1	1.824	12	17	20	rBV	26571	39947	1.86%	0.367%
2	2.482	118	125	133	rBV10	8194	24622	1.15%	0.226%
3	2.635	144	150	159	rVB	13267	28351	1.32%	0.261%
4	3.866	339	352	364	rBV2	35738	104429	4.87%	0.960%
5	4.104	379	391	405	rBV	28435	81522	3.80%	0.749%
6	4.610	464	474	486	rBV4	11267	36513	1.70%	0.336%
7	6.896	841	849	861	rBV2	12268	34253	1.60%	0.315%
8	7.628	959	969	975	rBV2	334318	784778	36.61%	7.215%
9	7.707	975	982	996	rVB	481283	1101628	51.39%	10.128%
10	8.061	1030	1040	1050	rBV	235746	535711	24.99%	4.925%
11	8.609	1120	1130	1143	rBV	795260	1558696	72.72%	14.329%
12	10.103	1367	1375	1383	rBV	1317102	2143539	100.00%	19.706%
13	11.414	1581	1590	1603	rBV	1131706	1797586	83.86%	16.526%
14	12.408	1745	1753	1765	rBV	761764	1238894	57.80%	11.389%
15	13.346	1899	1907	1917	rVB	871260	1311773	61.20%	12.059%
16	13.883	1990	1995	2001	rVB2	35199	55328	2.58%	0.509%

Sum of corrected areas: 10877570

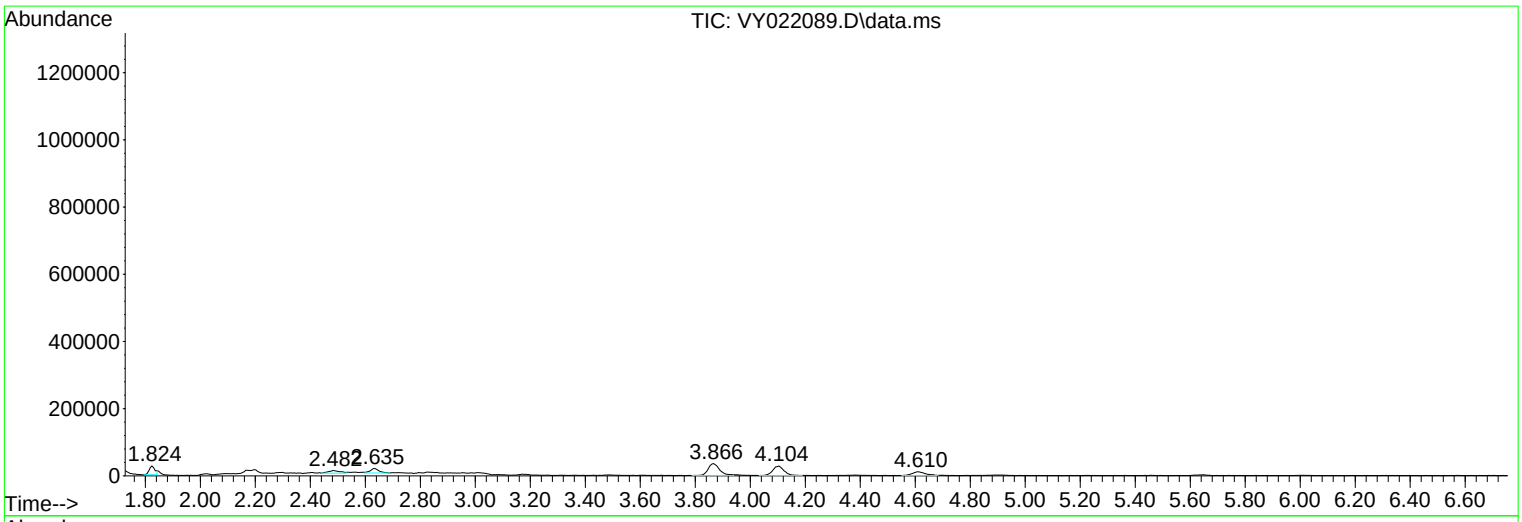
Sample Results: **VY022089.D**

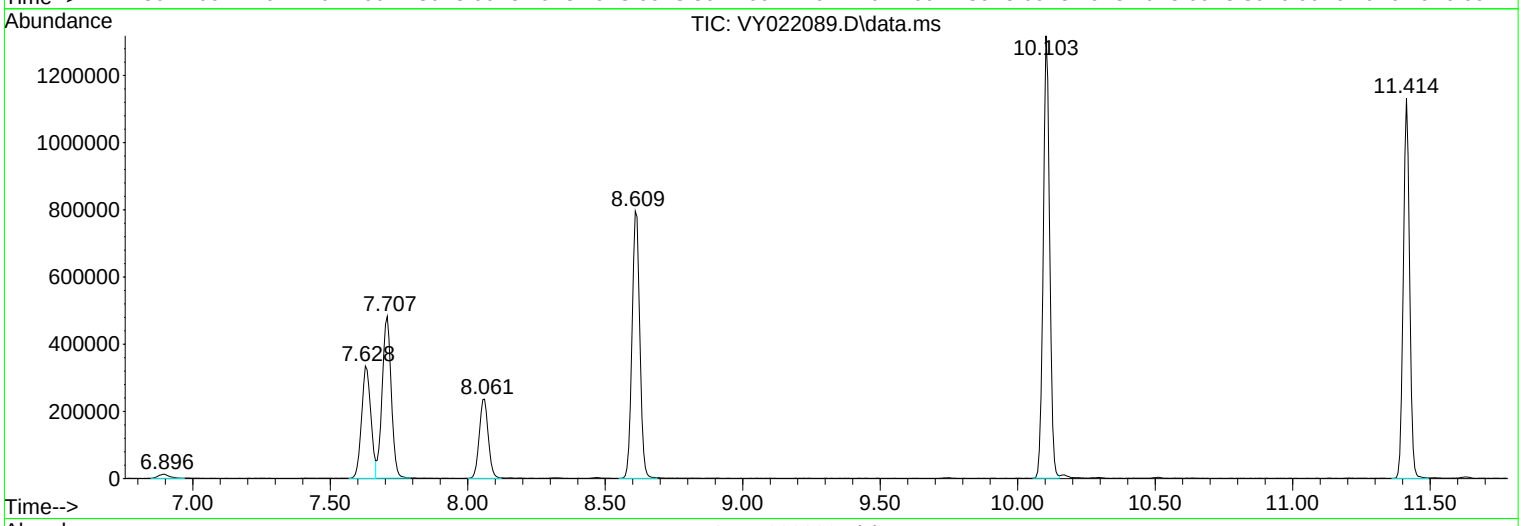
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

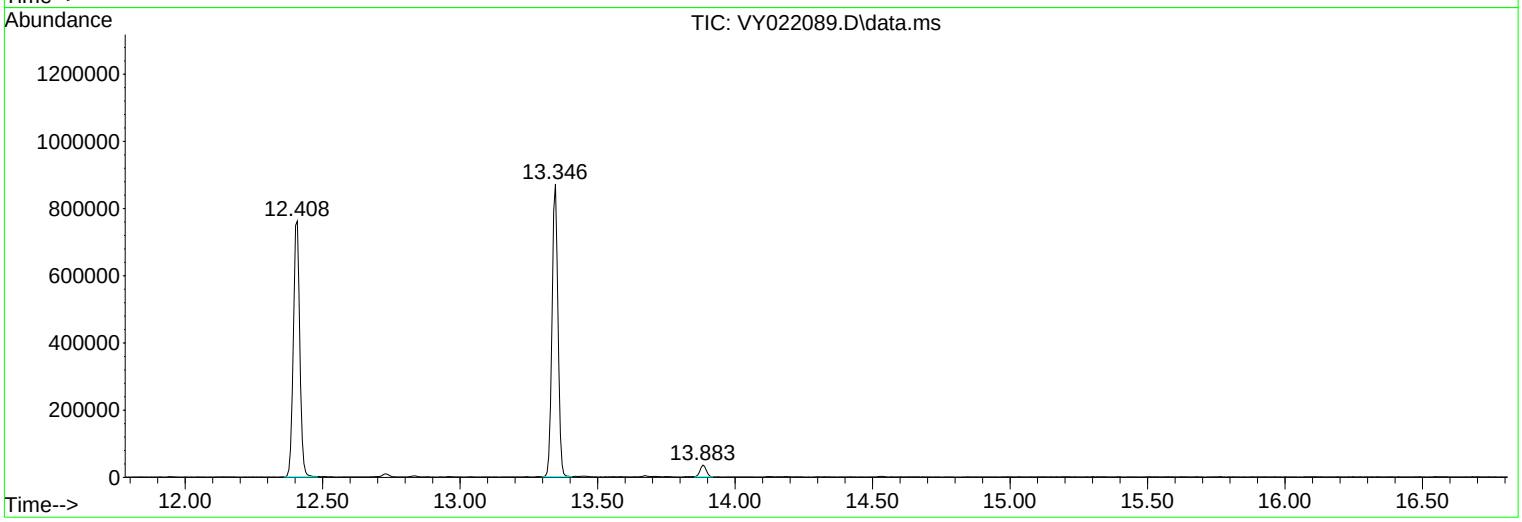
Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Time: May 01 01:39:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

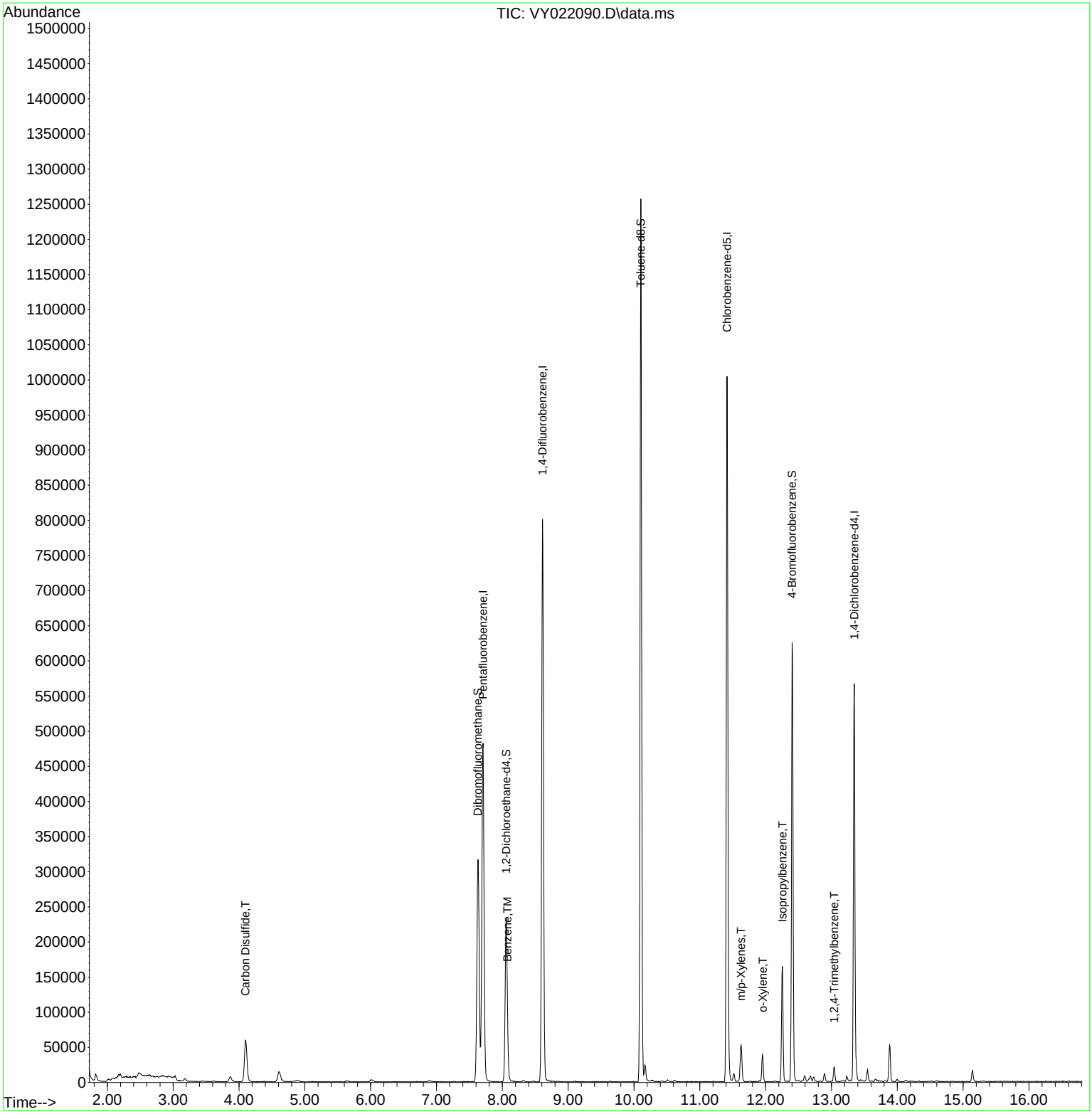
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	384809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	709625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	563942	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	150773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	176326	49.608	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.220%		
35) Dibromofluoromethane	7.628	113	233310	49.766	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.540%		
50) Toluene-d8	10.103	98	825206	46.689	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	93.380%		
62) 4-Bromofluorobenzene	12.402	95	196123	32.962	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	65.920%		
Target Compounds						Qvalue
17) Carbon Disulfide	4.098	76	126155	10.343	ug/l	98
40) Benzene	8.079	78	25594	1.300	ug/l	97
68) m/p-Xylenes	11.627	106	14972	1.824	ug/l	96
69) o-Xylene	11.957	106	10754	1.421	ug/l	96
73) Isopropylbenzene	12.255	105	101940	10.120	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	10477	1.262	ug/l	88

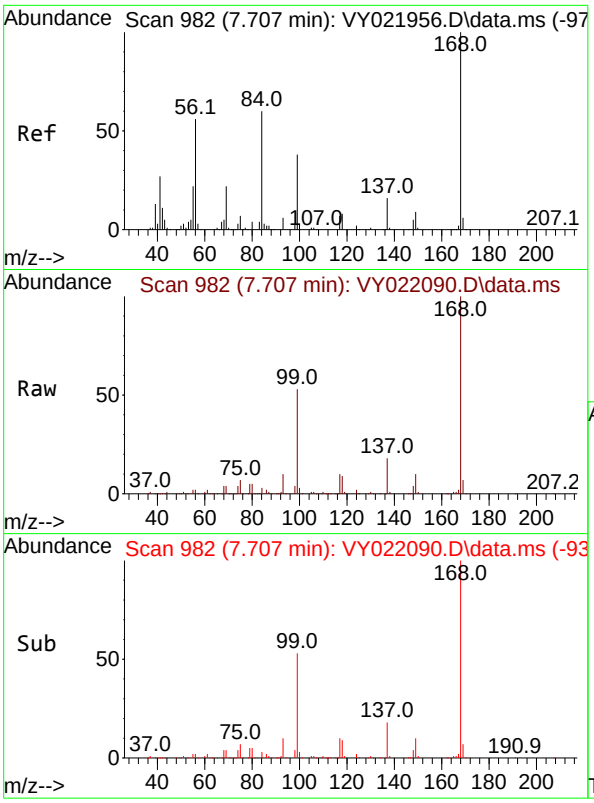
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Time: May 01 01:39:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



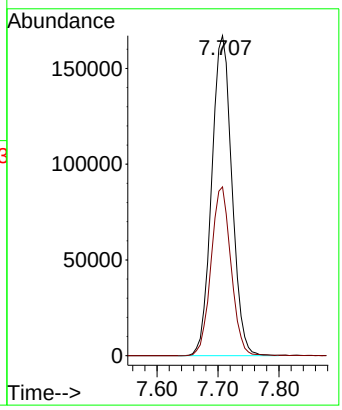


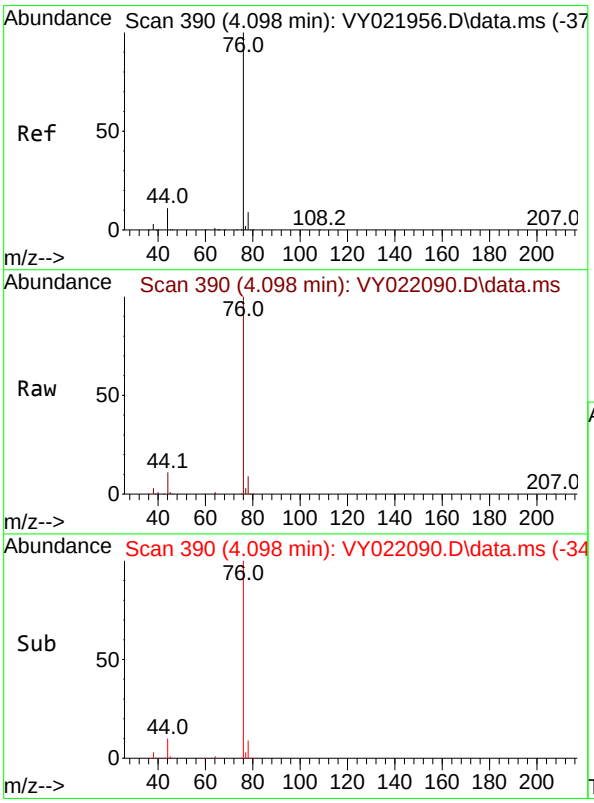
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion:168 Resp: 384809

Ion	Ratio	Lower	Upper
168	100		
99	52.7	43.1	64.7

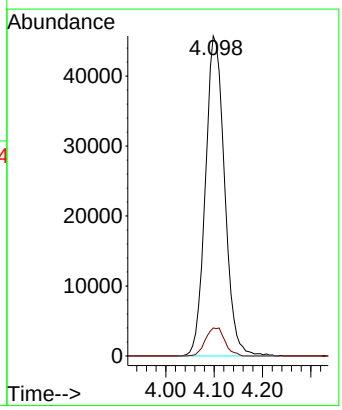


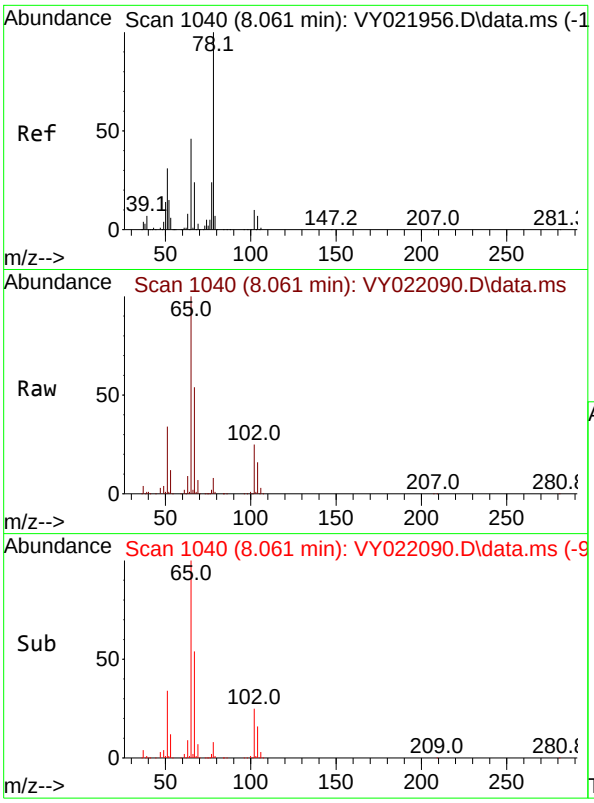


#17
Carbon Disulfide
Concen: 10.343 ug/l
RT: 4.098 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 76 Resp: 126155

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.6	11.4



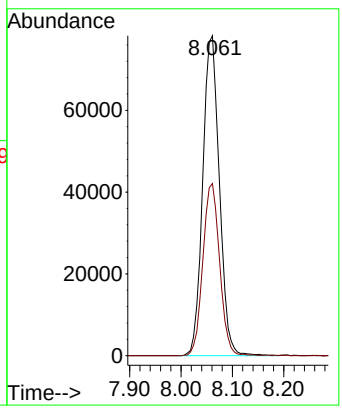


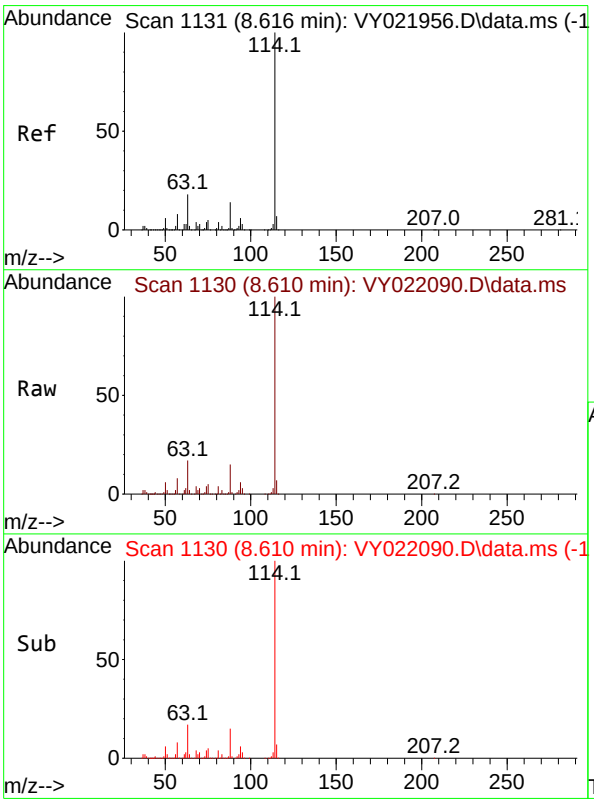
#33
1,2-Dichloroethane-d4
Concen: 49.608 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion: 65 Resp: 176326

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.8

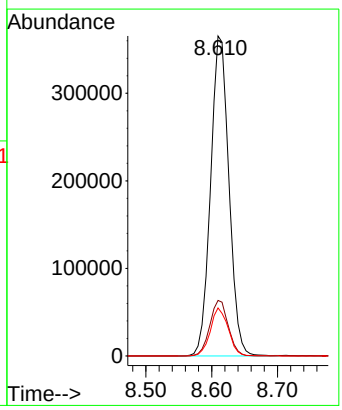


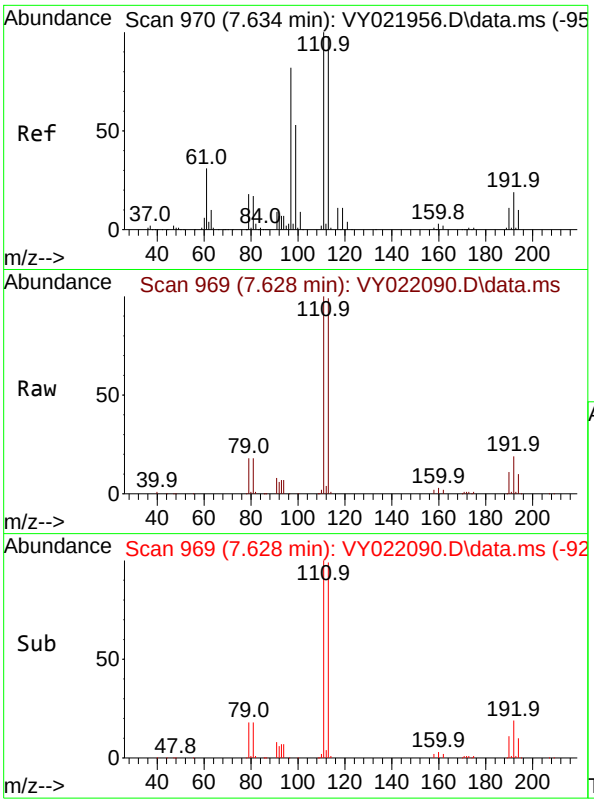


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:114 Resp: 709625

Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	35.4
88	15.0	0.0	28.2



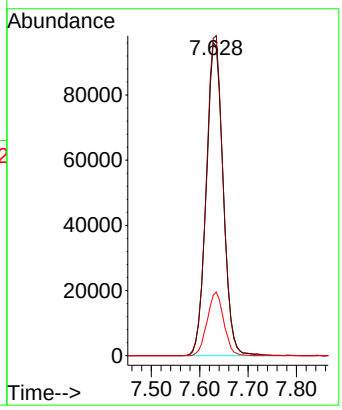


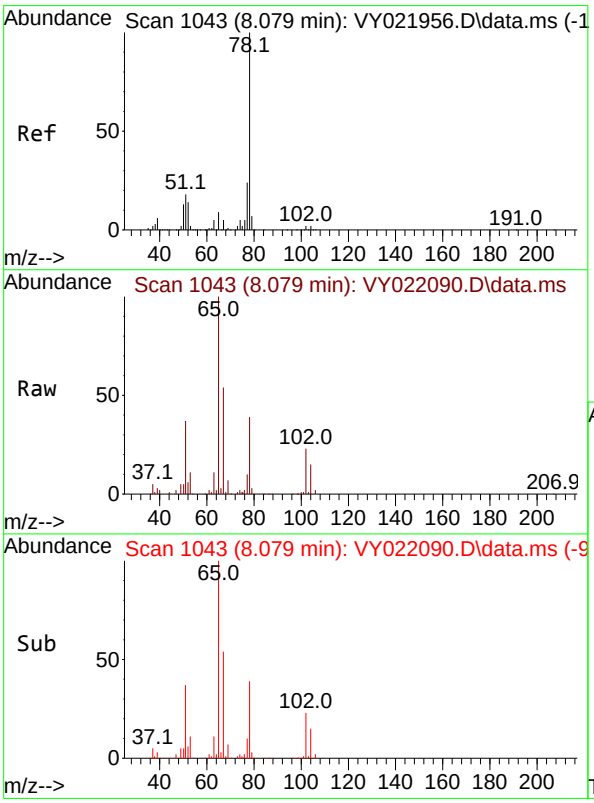
#35
Dibromofluoromethane
Concen: 49.766 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion:113 Resp: 233310

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.8
192	19.9	15.6	23.4

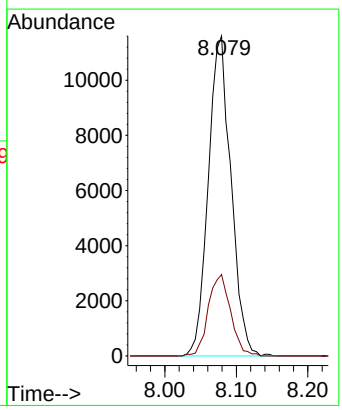


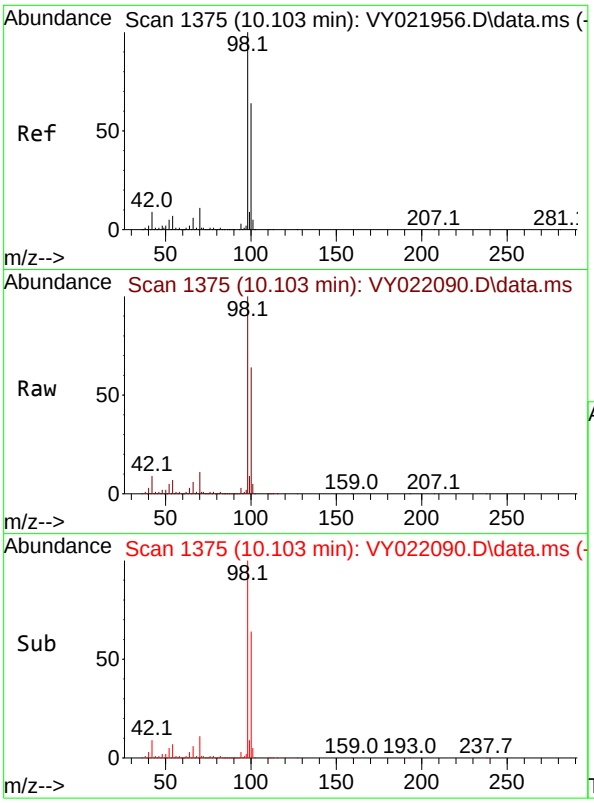


#40
Benzene
Concen: 1.300 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 78 Resp: 25594

Ion	Ratio	Lower	Upper
78	100		
77	25.4	19.3	28.9



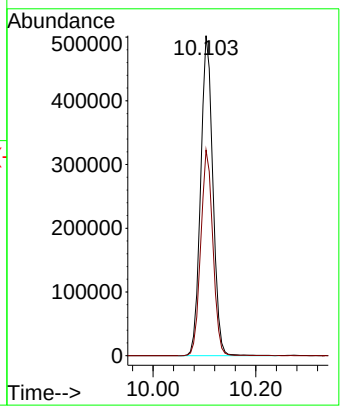


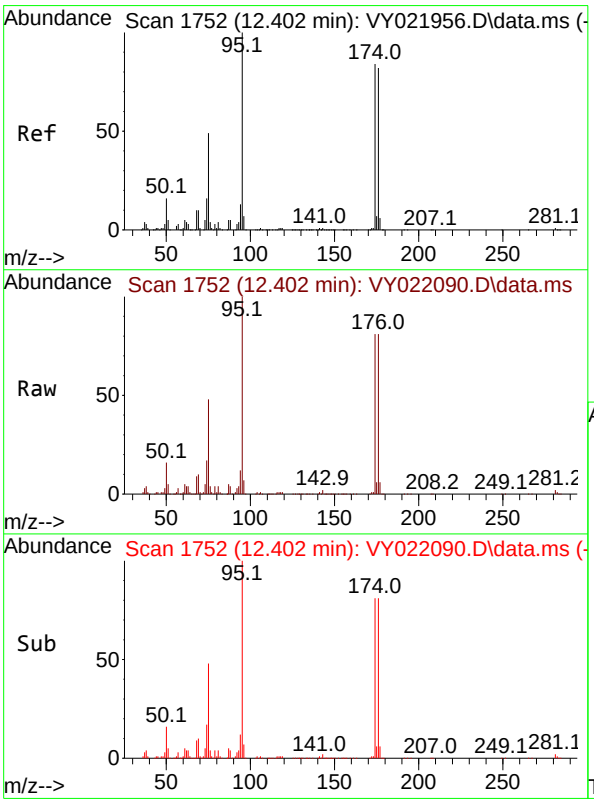
#50
Toluene-d8
Concen: 46.689 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion: 98 Resp: 825206

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

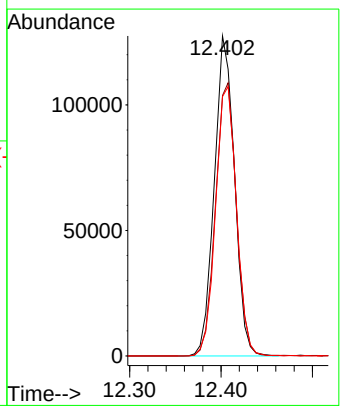


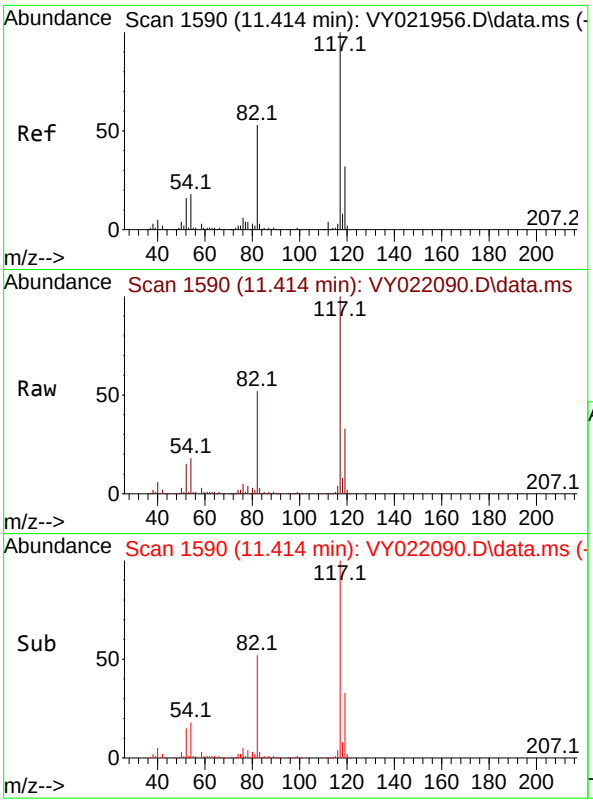


#62
4-Bromofluorobenzene
Concen: 32.962 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 95 Resp: 196123

Ion	Ratio	Lower	Upper
95	100		
174	88.1	0.0	179.0
176	86.9	0.0	171.8



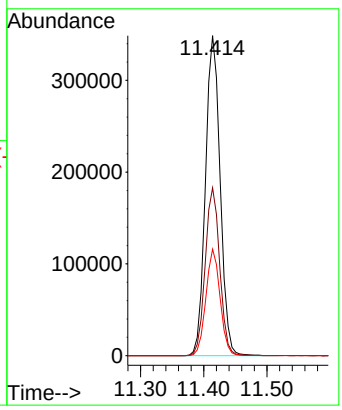


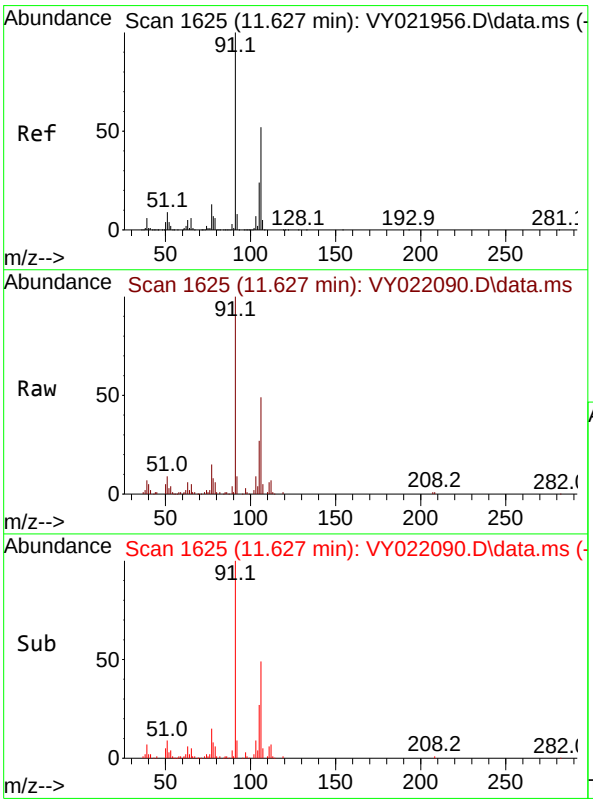
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion:117 Resp: 563942

Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.1	63.1
119	33.3	25.7	38.5

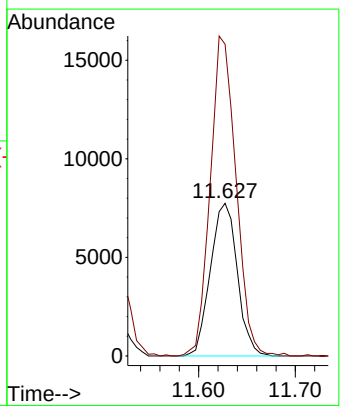


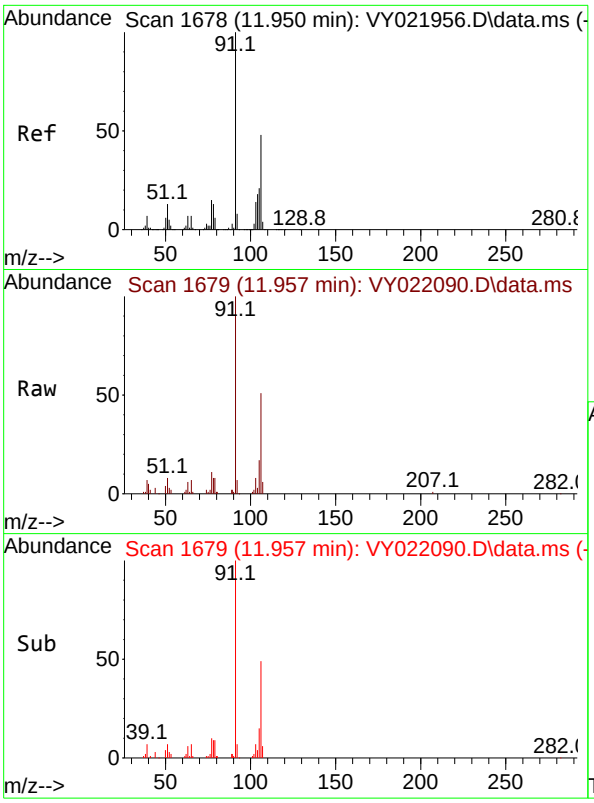


#68
m/p-Xylenes
Concen: 1.824 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:106 Resp: 14972

Ion	Ratio	Lower	Upper
106	100		
91	200.6	156.2	234.2



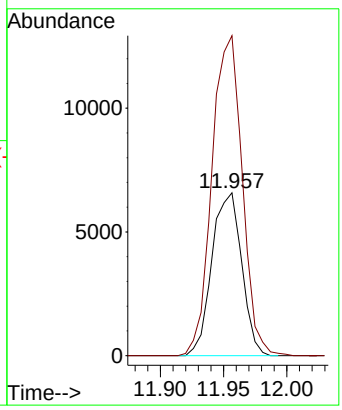


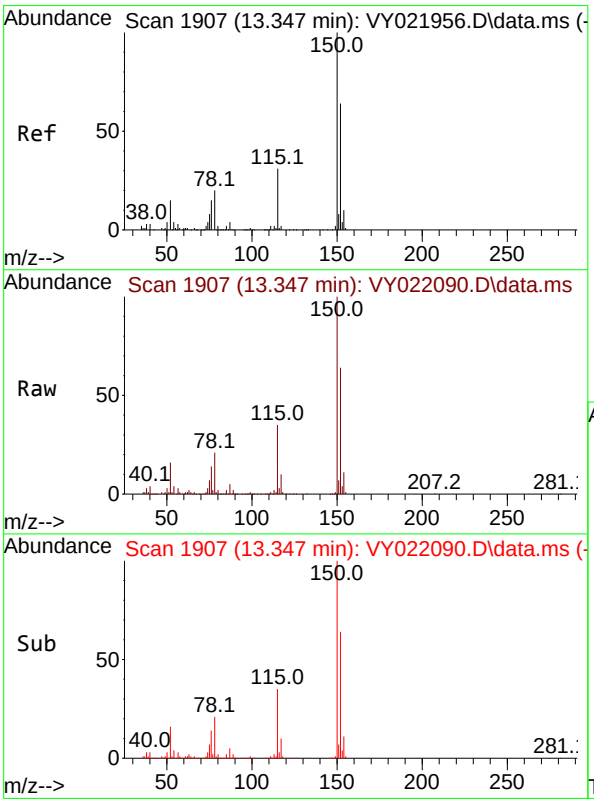
#69
o-Xylene
Concen: 1.421 ug/l
RT: 11.957 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion:106 Resp: 10754

Ion	Ratio	Lower	Upper
106	100		
91	200.2	103.0	308.9

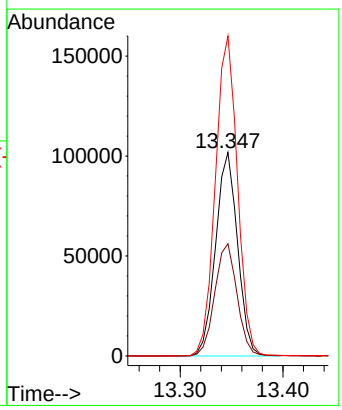


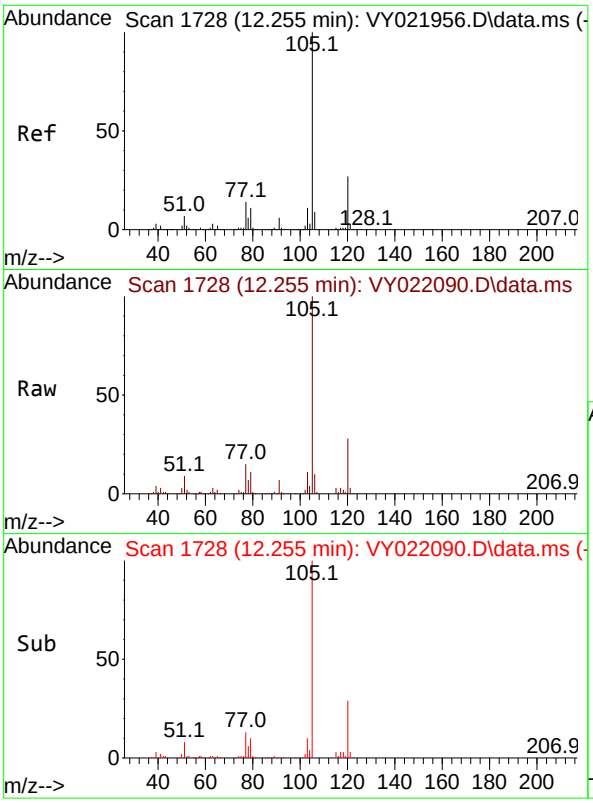


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:152 Resp: 150773

Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.0	84.0
150	158.4	0.0	345.6



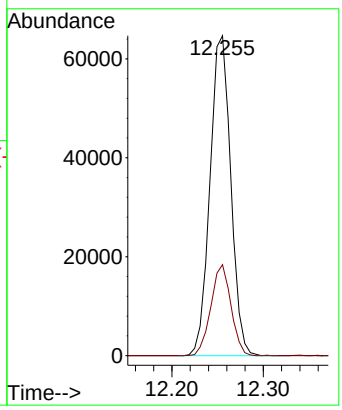


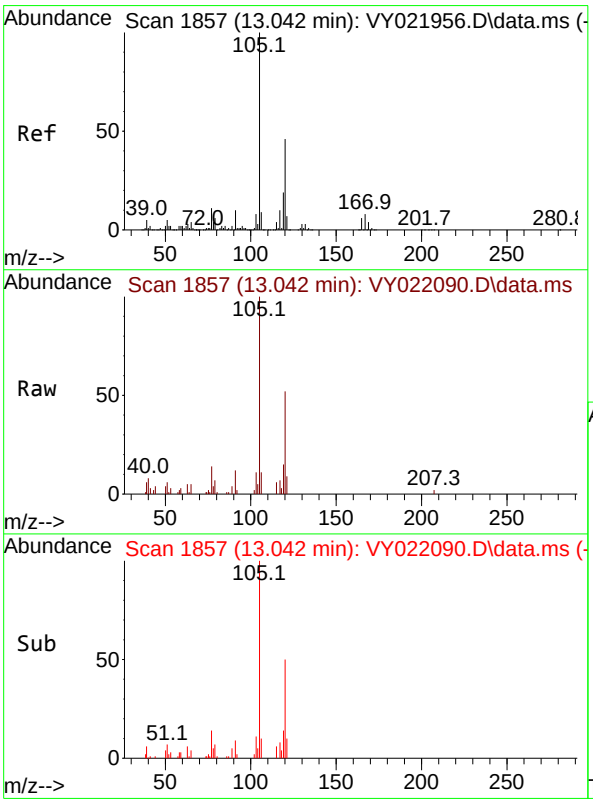
#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion:105 Resp: 101940

Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.5	40.5

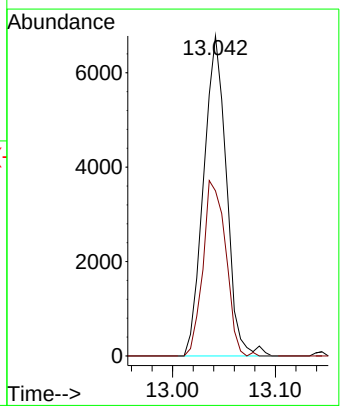




#84
1,2,4-Trimethylbenzene
Concen: 1.262 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:105 Resp: 10477

Ion	Ratio	Lower	Upper
105	100		
120	54.6	23.4	70.0



Sample Results: **VY022090.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022090.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.098	379	390	404	rBV	58790	162890	7.86%	1.557%
2	4.604	462	473	487	rBV2	14528	47906	2.31%	0.458%
3	7.634	958	970	975	rBV	315823	762259	36.76%	7.287%
4	7.707	975	982	993	rVB	480223	1107079	53.39%	10.583%
5	8.061	1030	1040	1053	rBV2	233211	554610	26.75%	5.302%
6	8.610	1122	1130	1143	rBV	800530	1550988	74.80%	14.826%
7	10.103	1368	1375	1382	rBV	1256679	2073621	100.00%	19.822%
8	10.164	1382	1385	1398	rVB	23397	45119	2.18%	0.431%
9	11.414	1582	1590	1602	rBV	1004276	1642238	79.20%	15.699%
10	11.627	1617	1625	1634	rVB	51745	100894	4.87%	0.964%
11	11.950	1672	1678	1686	rVB2	38480	63628	3.07%	0.608%
12	12.255	1721	1728	1736	rBV	164363	259914	12.53%	2.485%
13	12.402	1744	1752	1762	rBV	625201	1028788	49.61%	9.834%
14	13.042	1852	1857	1862	rVB	20750	32057	1.55%	0.306%
15	13.347	1900	1907	1918	rBV	564738	889239	42.88%	8.500%
16	13.548	1932	1940	1945	rBV2	16611	26148	1.26%	0.250%
17	13.883	1989	1995	2001	rBV2	51425	85381	4.12%	0.816%
18	15.145	2192	2202	2209	rBV	16275	28335	1.37%	0.271%

Sum of corrected areas: 10461094

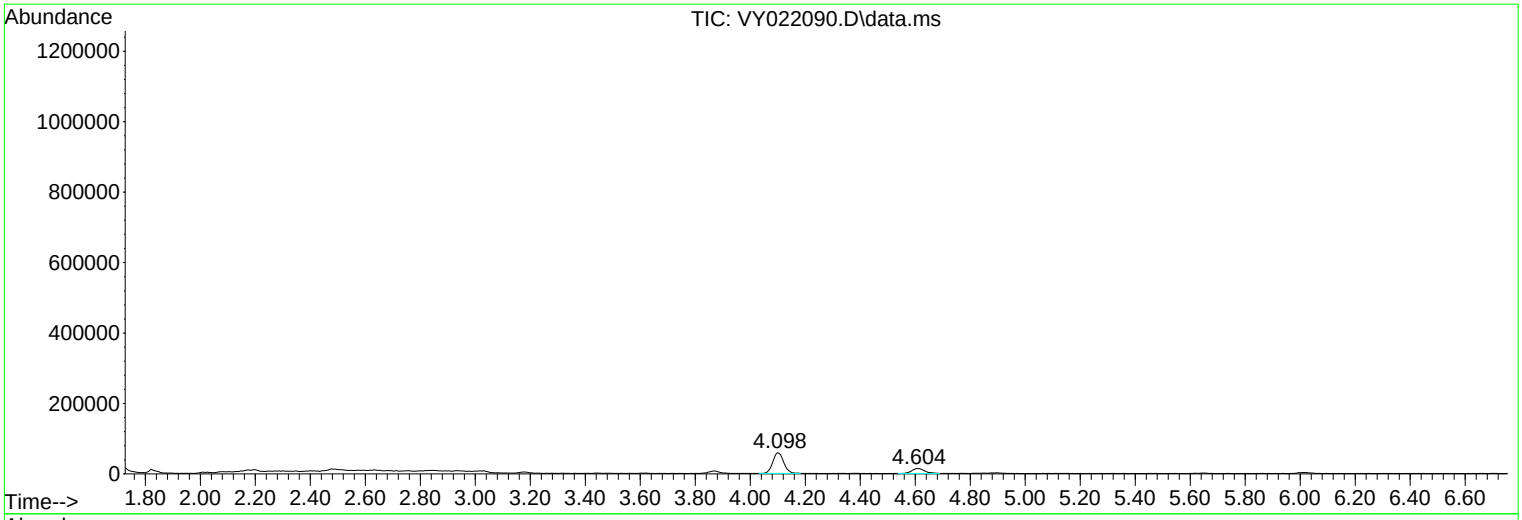
Sample Results: **VY022090.D**

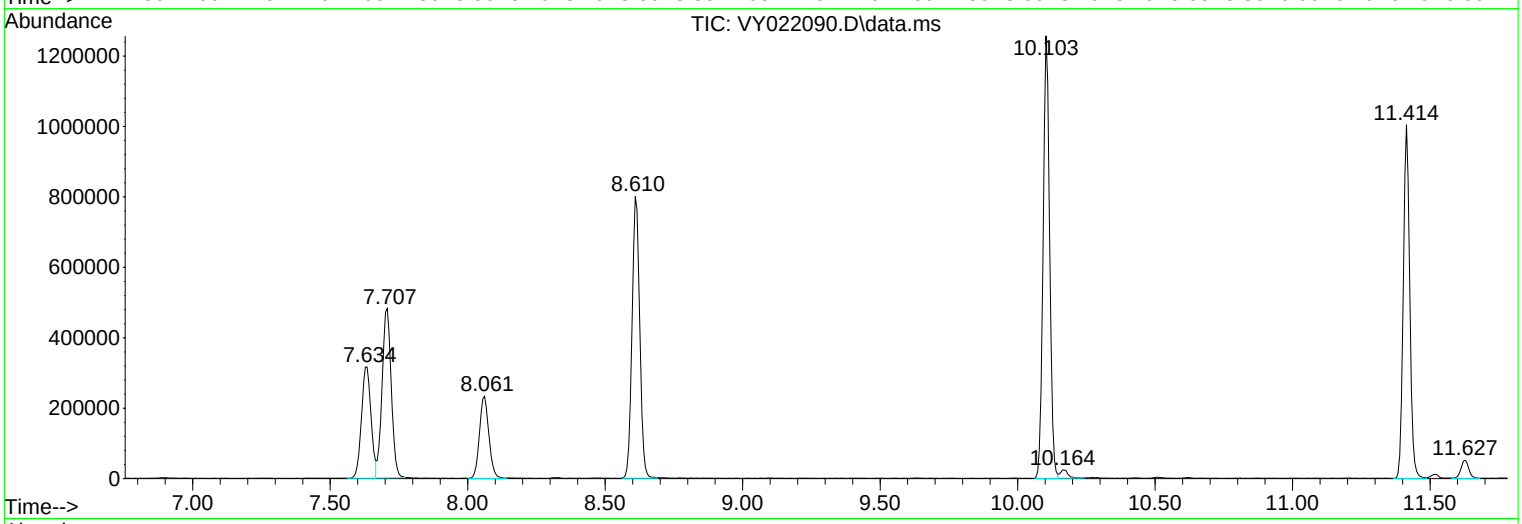
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

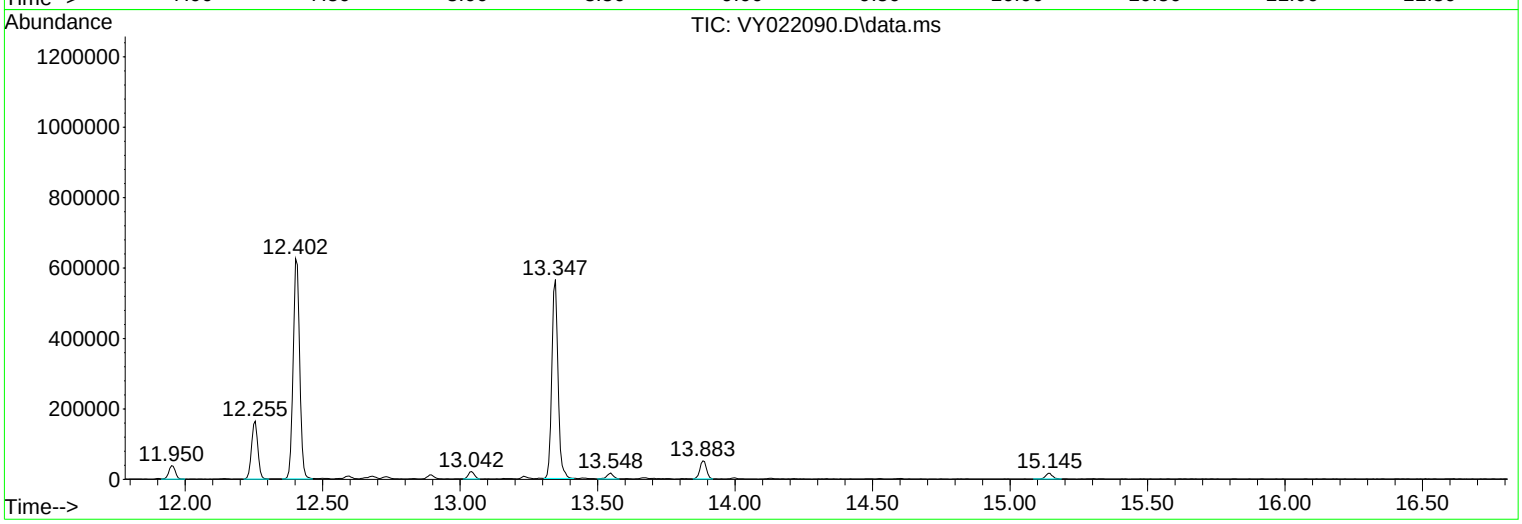
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY022090.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Time: Apr 30 01:38:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

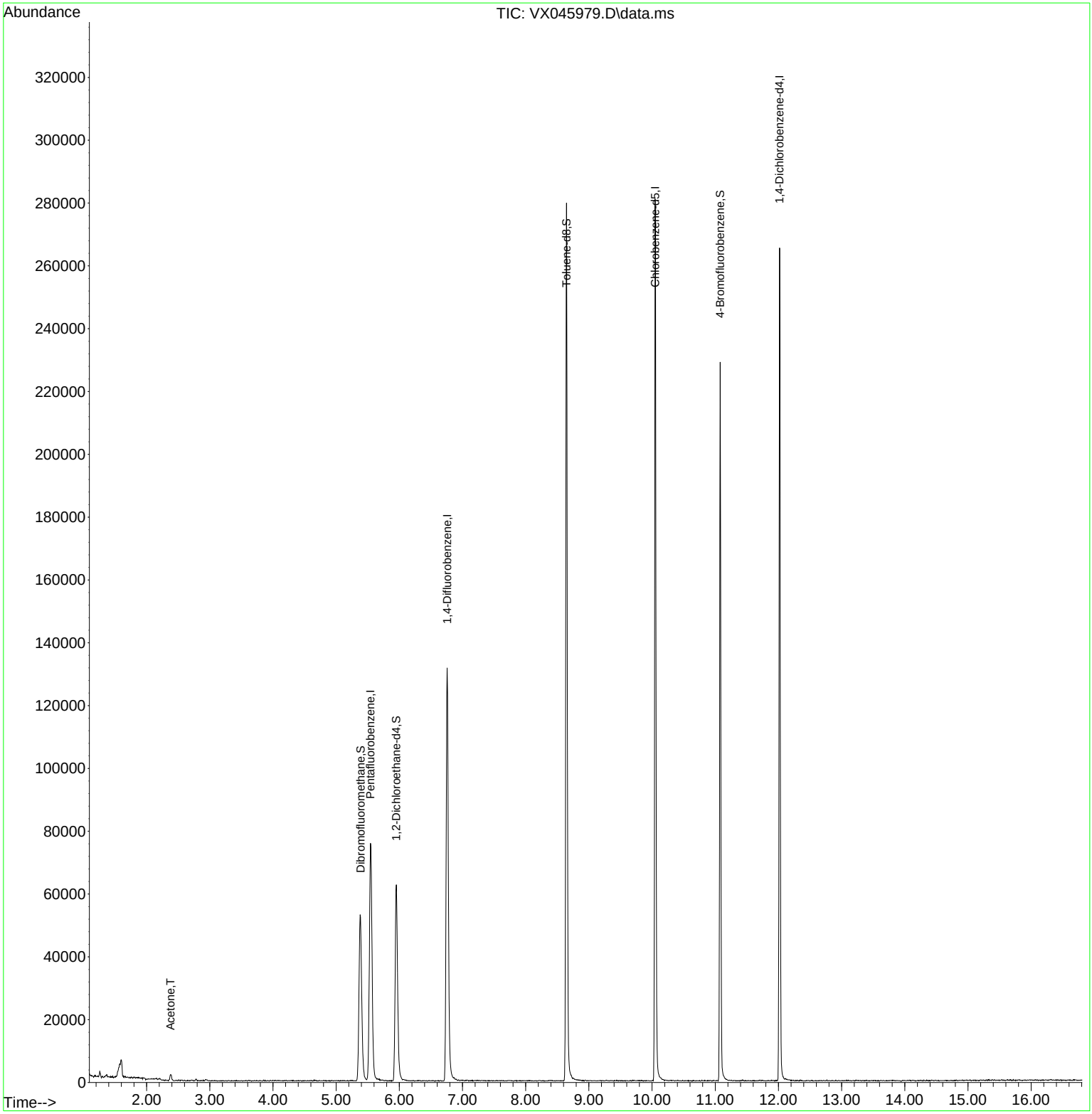
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64509	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	115874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64442	54.626	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.260%			
35) Dibromofluoromethane	5.385	113	46820	51.573	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.140%			
50) Toluene-d8	8.647	98	159888	50.459	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	11.079	95	58165	50.394	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.780%			
Target Compounds						Qvalue
16) Acetone	2.380	43	2285	4.717	ug/l	94

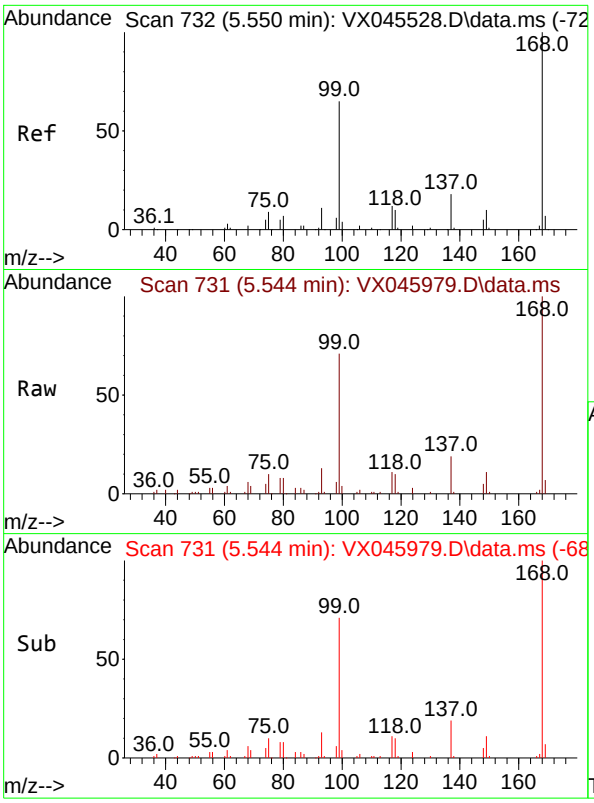
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Time: Apr 30 01:38:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



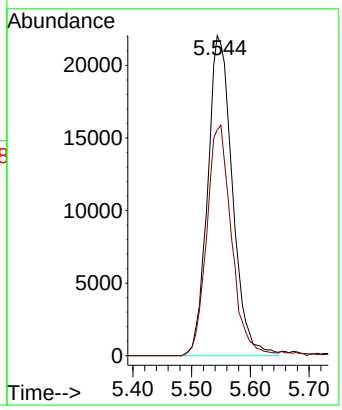


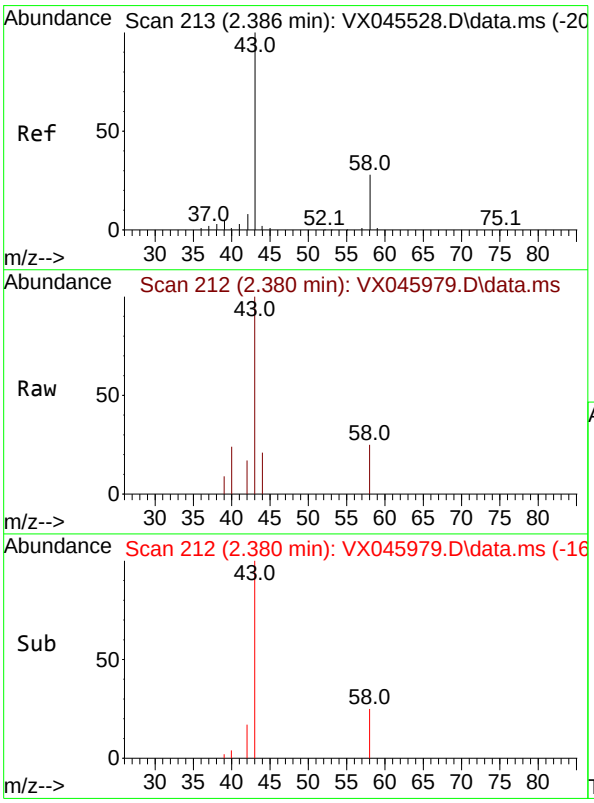
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion:168 Resp: 64509

Ion	Ratio	Lower	Upper
168	100		
99	70.6	52.3	78.5

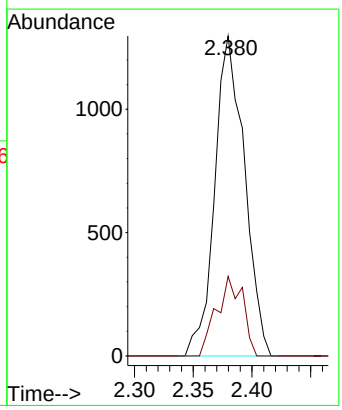


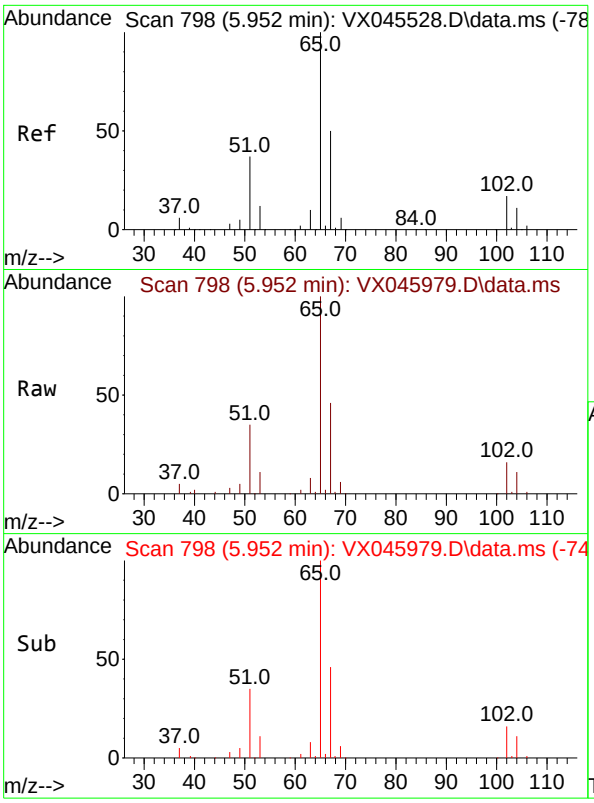


#16
Acetone
Concen: 4.717 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Tgt Ion: 43 Resp: 2285

Ion	Ratio	Lower	Upper
43	100		
58	24.8	22.3	33.5



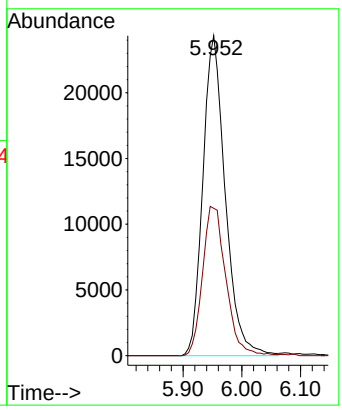


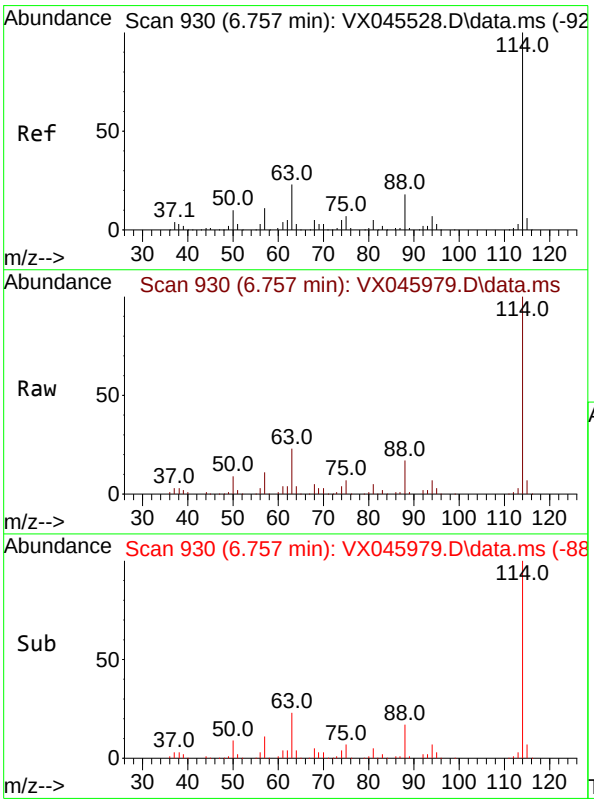
#33
1,2-Dichloroethane-d4
Concen: 54.626 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion: 65 Resp: 64442

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0

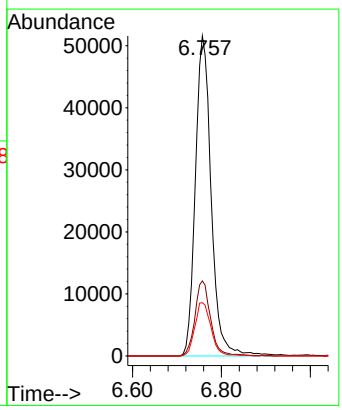


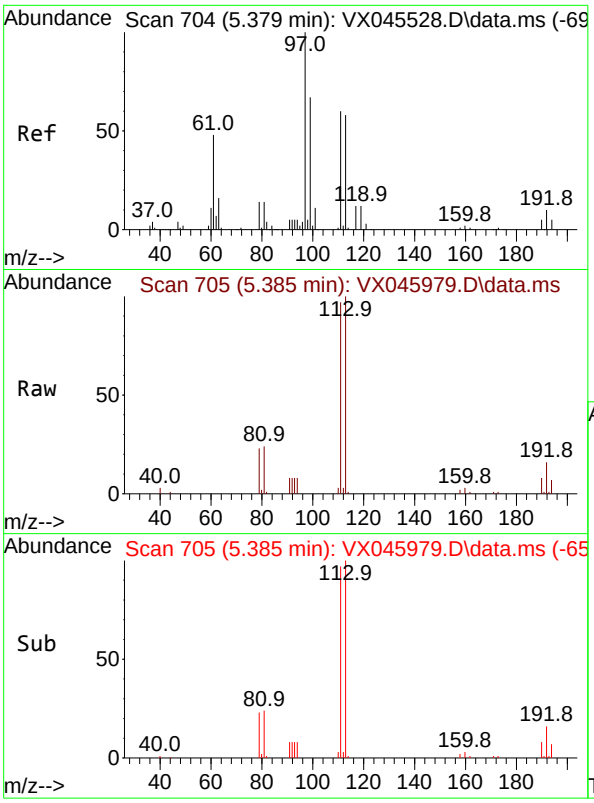


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Tgt Ion:114 Resp: 127954

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	46.8
88	16.7	0.0	35.4



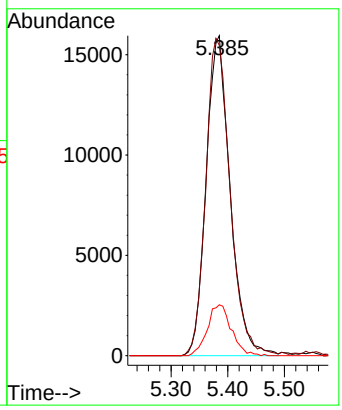


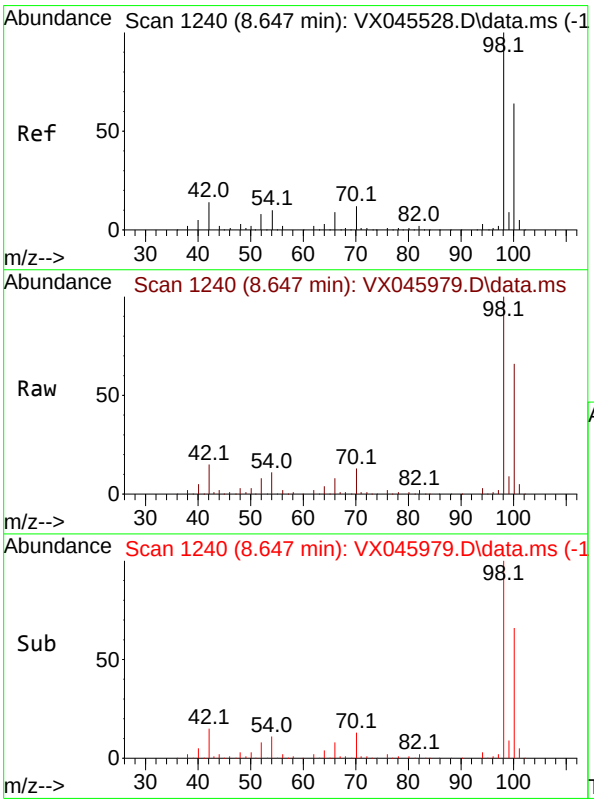
#35
Dibromofluoromethane
Concen: 51.573 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion:113 Resp: 46820

Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.8	122.6
192	15.9	13.8	20.6

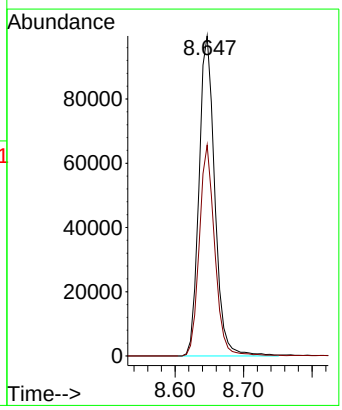


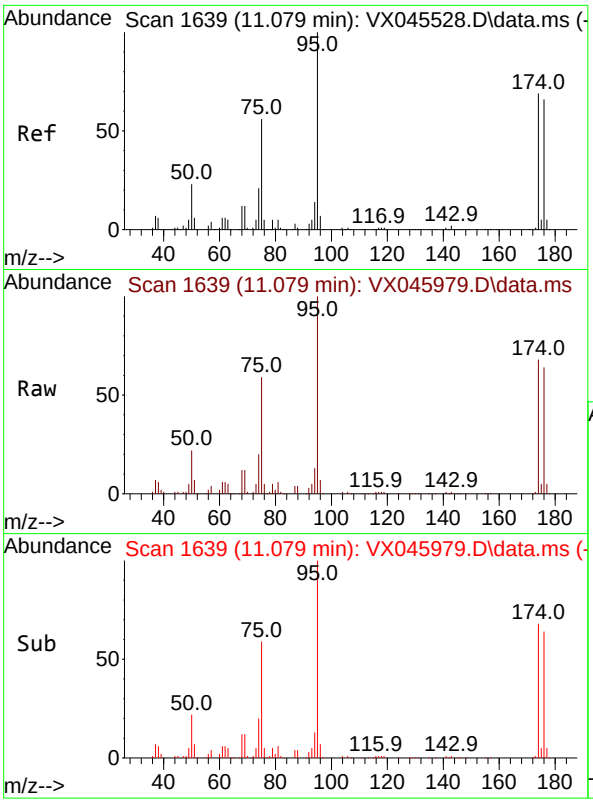


#50
Toluene-d8
Concen: 50.459 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Tgt Ion: 98 Resp: 159888

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4



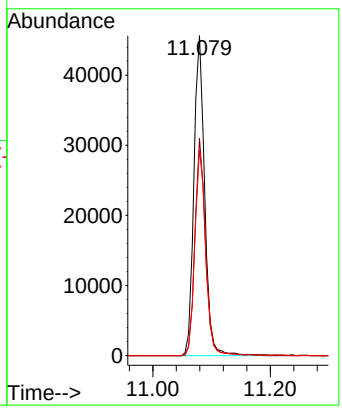


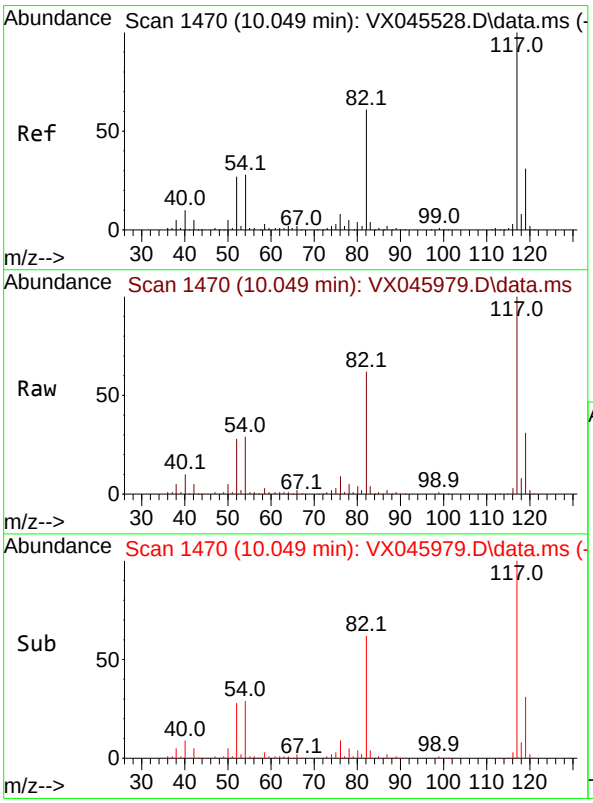
#62
4-Bromofluorobenzene
Concen: 50.394 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion: 95 Resp: 58165

Ion	Ratio	Lower	Upper
95	100		
174	66.7	0.0	135.8
176	64.7	0.0	131.4

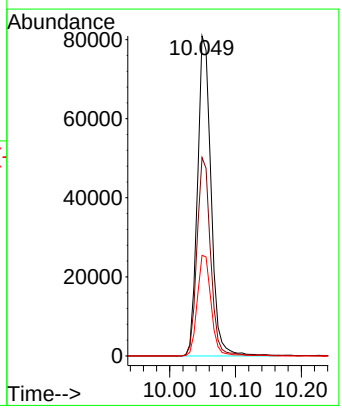


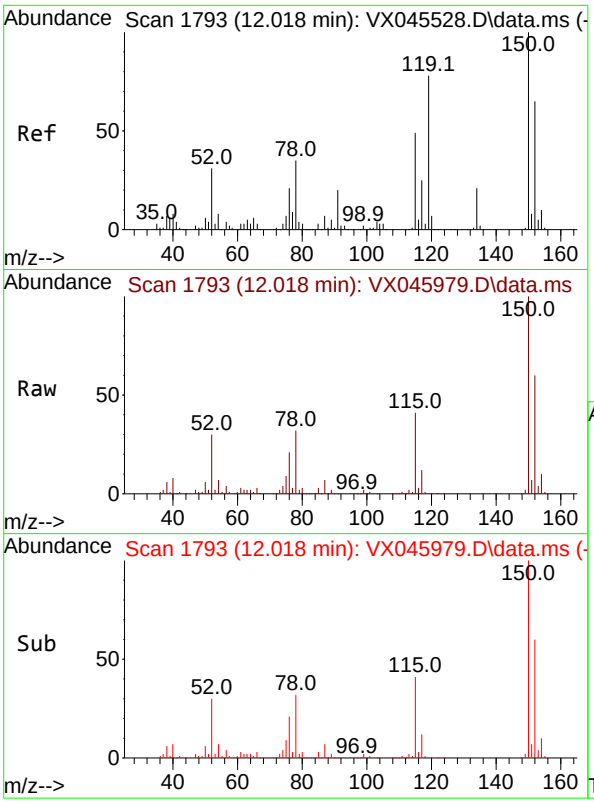


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Tgt Ion:117 Resp: 115874

Ion	Ratio	Lower	Upper
117	100		
82	62.0	49.2	73.8
119	31.4	25.1	37.7



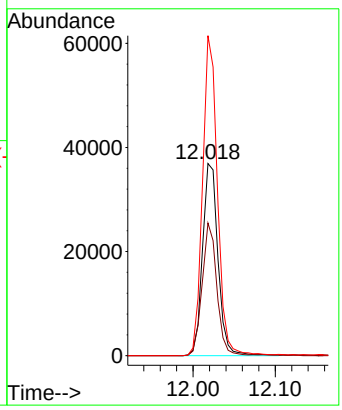


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion:152 Resp: 48370

Ion	Ratio	Lower	Upper
152	100		
115	65.3	46.9	140.7
150	159.8	0.0	349.4



Sample Results: **VX045979.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.575	71	80	81	rBV3	4097	8657	1.93%	0.368%
2	1.599	81	84	89	rVB2	5445	8862	1.98%	0.377%
3	5.379	693	704	721	rBV2	52966	157443	35.14%	6.694%
4	5.544	721	731	747	rVV	75321	216016	48.21%	9.185%
5	5.952	789	798	814	rBV	62439	167024	37.28%	7.102%
6	6.757	919	930	946	rBV	131566	322972	72.08%	13.732%
7	8.647	1233	1240	1256	rBV	279471	448060	100.00%	19.051%
8	10.049	1465	1470	1488	rBV	280871	399593	89.18%	16.990%
9	11.079	1634	1639	1652	rBV	228889	289322	64.57%	12.301%
10	12.018	1788	1793	1807	rBV	265146	333976	74.54%	14.200%

Sum of corrected areas: 2351925

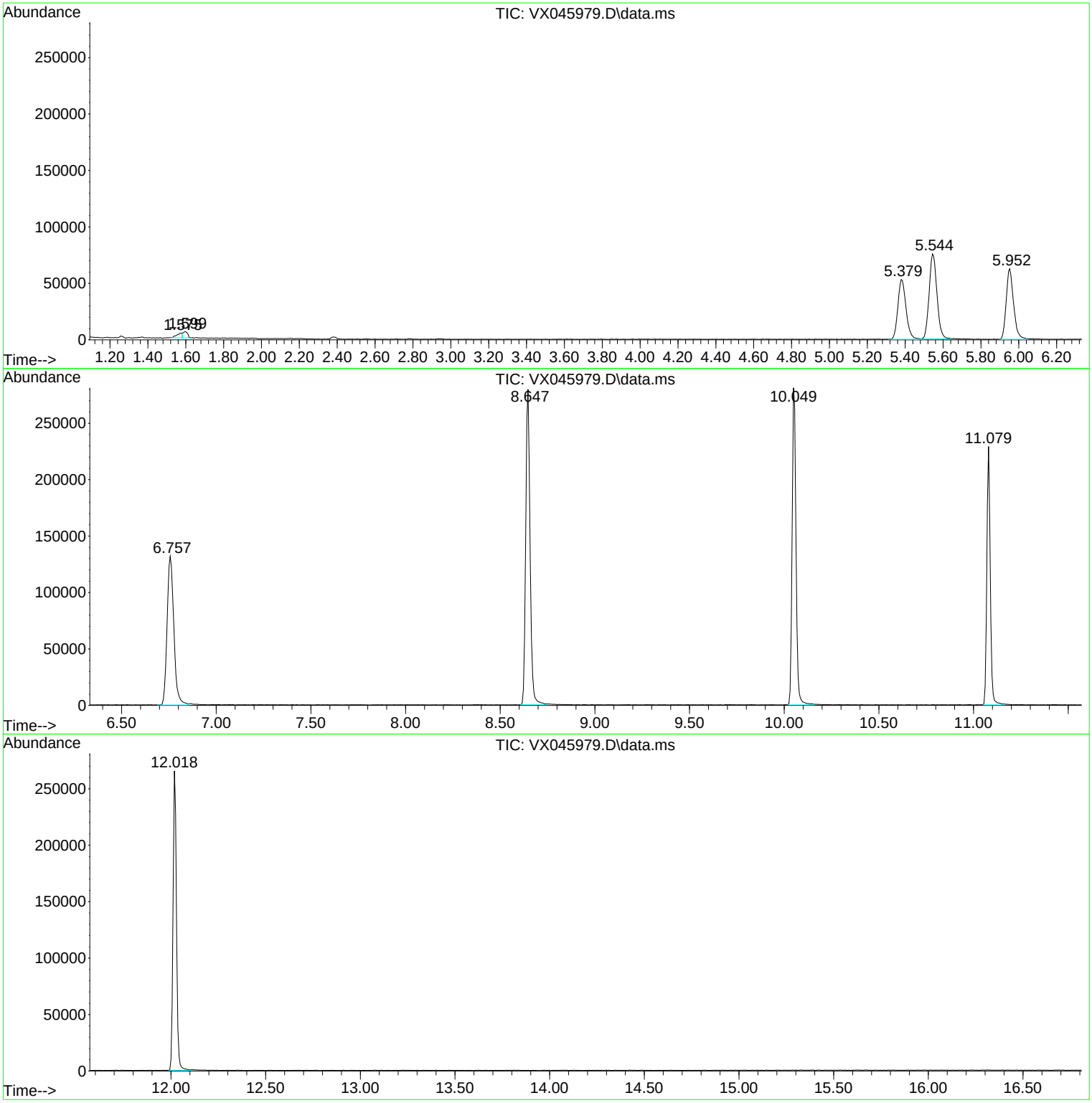
Sample Results: **VX045979.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Time: Apr 30 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

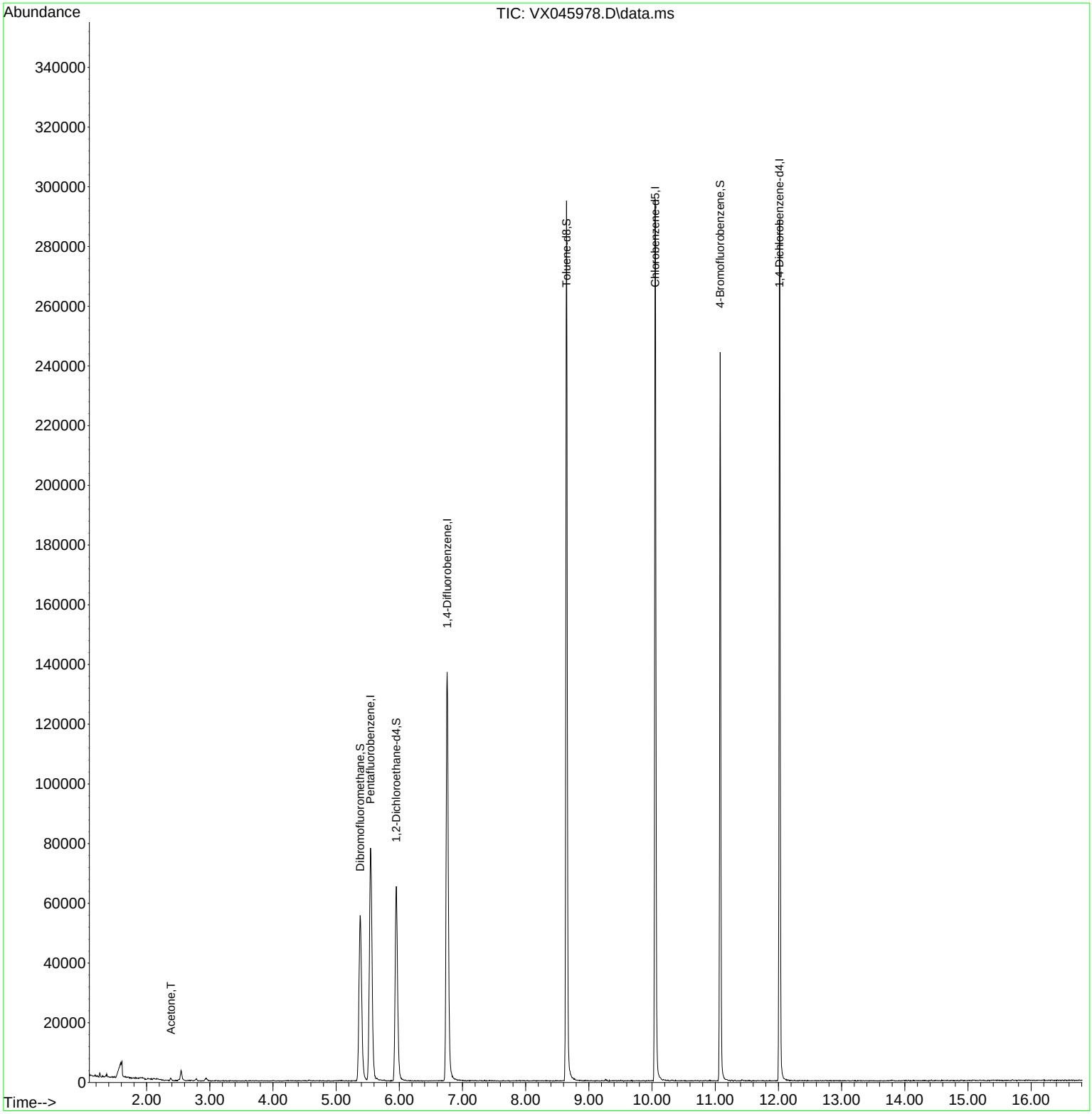
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	67274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123412	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	53777	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66629	54.158	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.320%			
35) Dibromofluoromethane	5.379	113	48413	51.911	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.820%			
50) Toluene-d8	8.647	98	165475	50.834	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.660%			
62) 4-Bromofluorobenzene	11.079	95	63879	53.875	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.740%			
Target Compounds						Qvalue
16) Acetone	2.386	43	854	1.690	ug/l	91

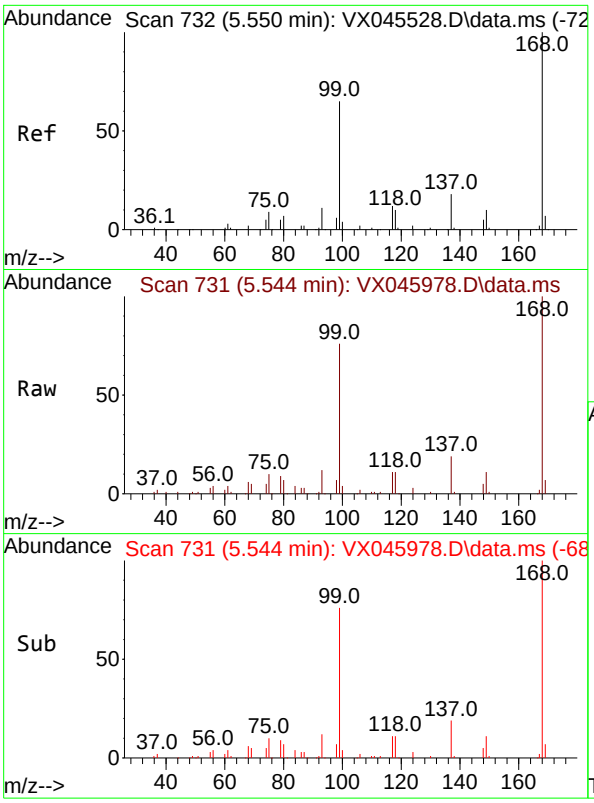
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Time: Apr 30 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



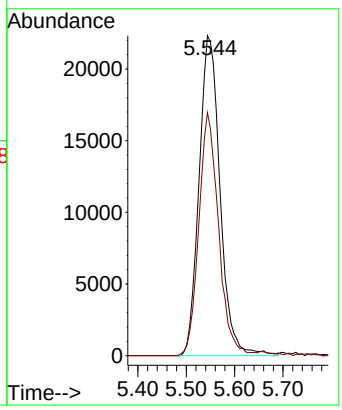


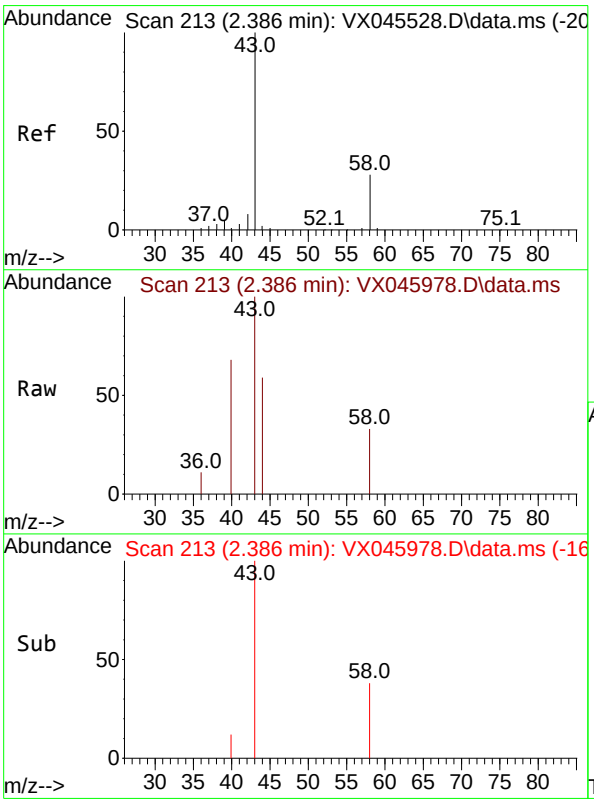
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion:168 Resp: 67274

Ion	Ratio	Lower	Upper
168	100		
99	76.0	52.3	78.5

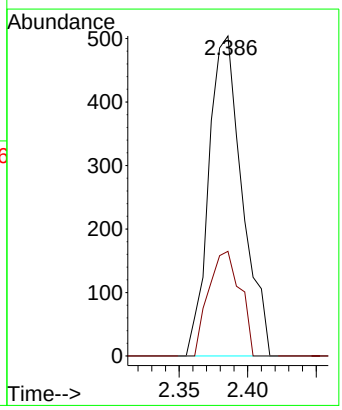


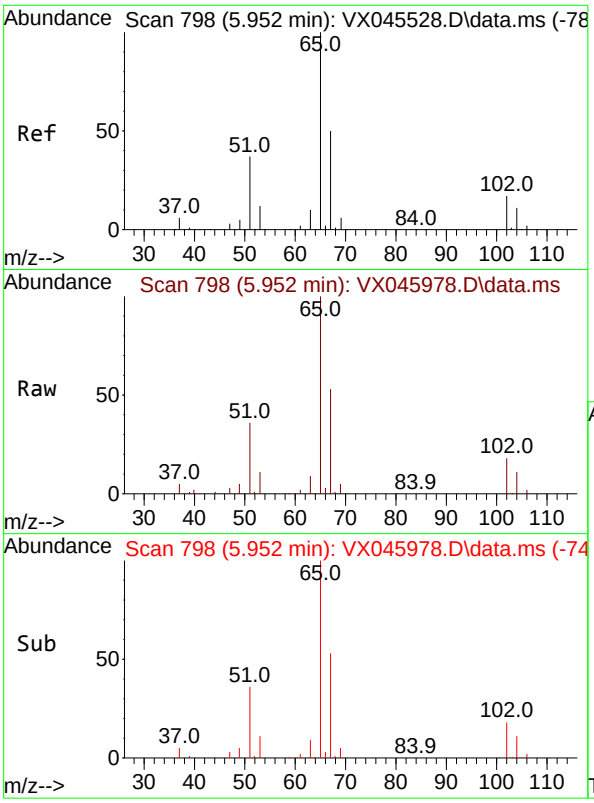


#16
Acetone
Concen: 1.690 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion: 43 Resp: 854

Ion	Ratio	Lower	Upper
43	100		
58	32.7	22.3	33.5



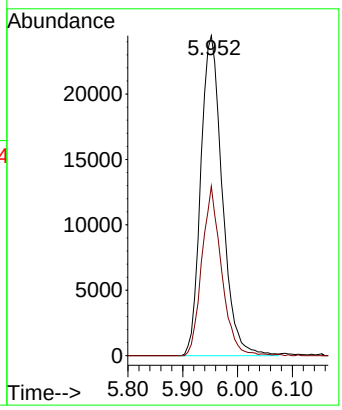


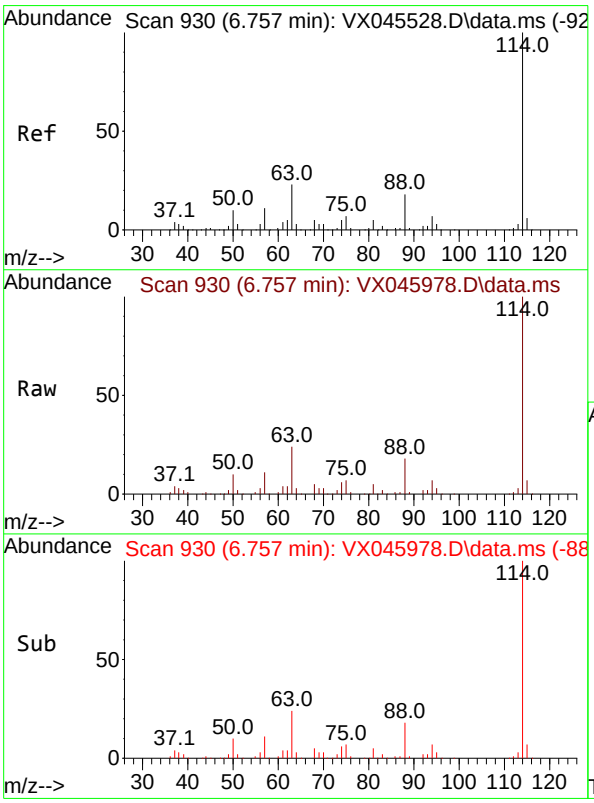
#33
1,2-Dichloroethane-d4
Concen: 54.158 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion: 65 Resp: 66629

Ion	Ratio	Lower	Upper
65	100		
67	48.3	0.0	99.0

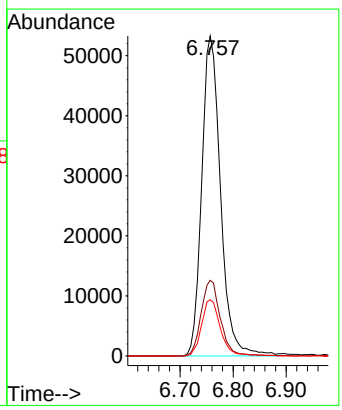


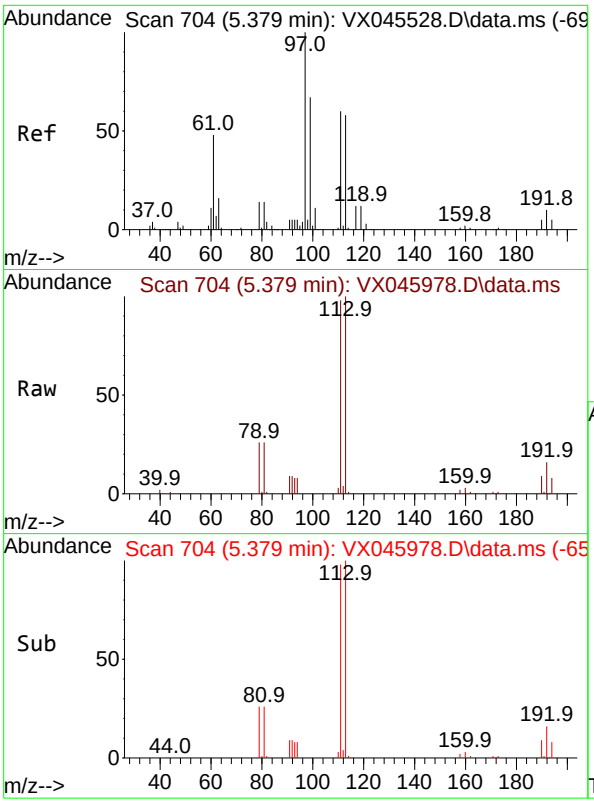


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion:114 Resp: 131446

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	46.8
88	17.5	0.0	35.4



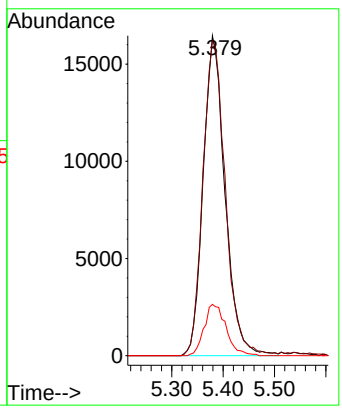


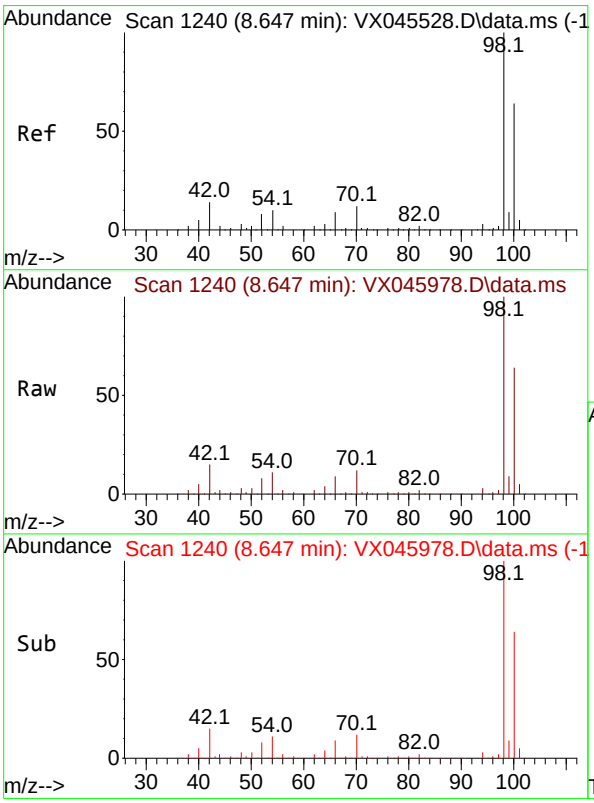
#35
Dibromofluoromethane
Concen: 51.911 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion:113 Resp: 48413

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.6
192	16.2	13.8	20.6

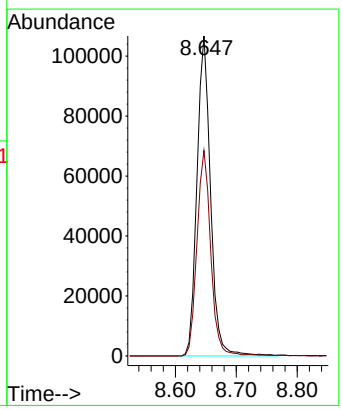


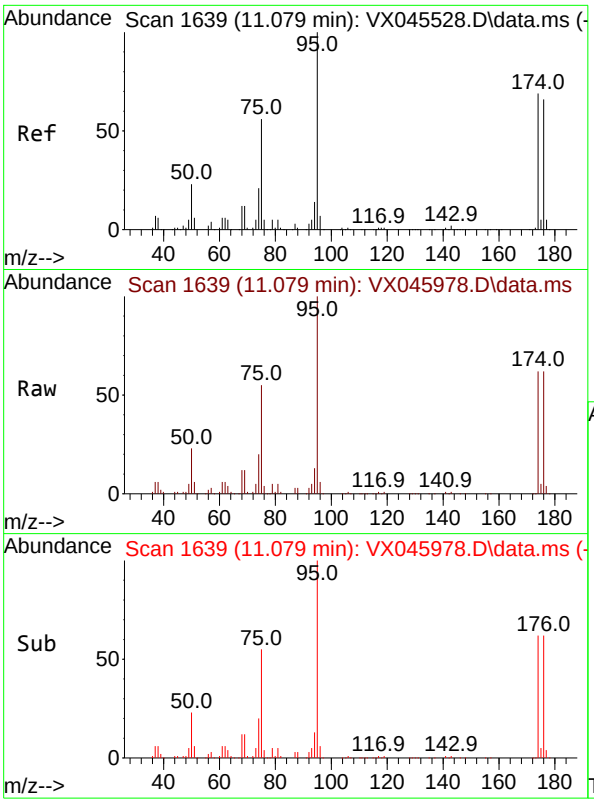


#50
Toluene-d8
Concen: 50.834 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion: 98 Resp: 165475

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4



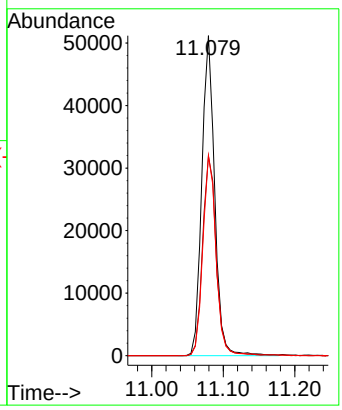


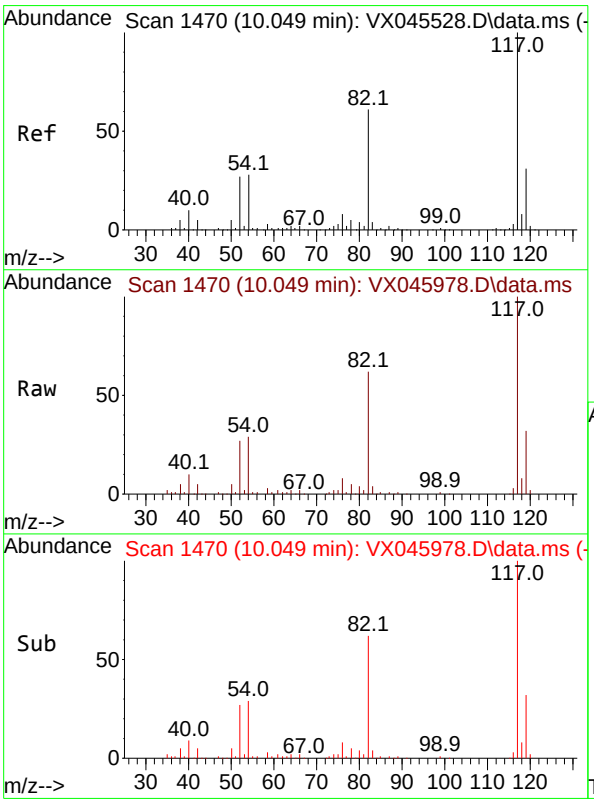
#62
4-Bromofluorobenzene
Concen: 53.875 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion: 95 Resp: 63879

Ion	Ratio	Lower	Upper
95	100		
174	66.4	0.0	135.8
176	64.0	0.0	131.4

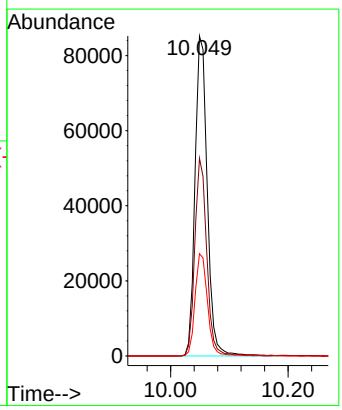


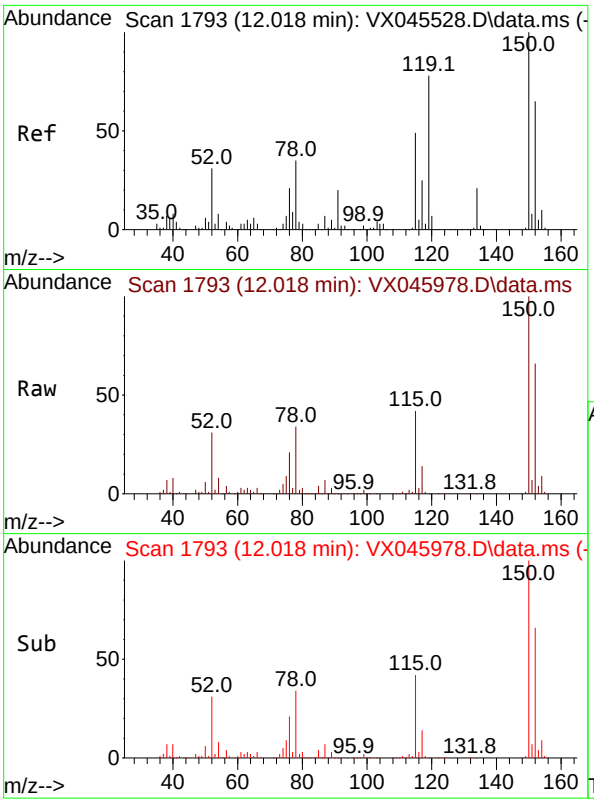


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion:117 Resp: 123412

Ion	Ratio	Lower	Upper
117	100		
82	61.8	49.2	73.8
119	31.9	25.1	37.7



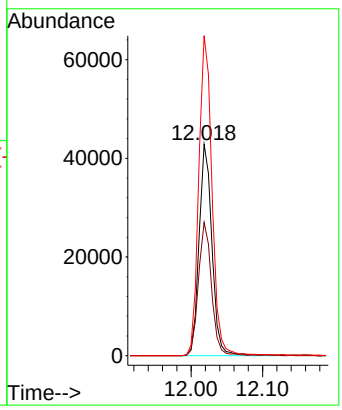


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion:152 Resp: 53777

Ion	Ratio	Lower	Upper
152	100		
115	63.8	46.9	140.7
150	155.3	0.0	349.4



Sample Results: **VX045978.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045978.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	69	82	83	rBV3	5015	13453	2.89%	0.542%
2	1.611	83	86	88	rVB	4904	5340	1.15%	0.215%
3	2.544	235	239	251	rVB	3493	6601	1.42%	0.266%
4	5.379	694	704	721	rBV	55481	165258	35.52%	6.654%
5	5.544	721	731	744	rBV	77631	222460	47.82%	8.957%
6	5.952	789	798	812	rBV	65089	172328	37.04%	6.938%
7	6.757	921	930	947	rBV	136842	336873	72.41%	13.563%
8	8.647	1234	1240	1254	rBV	294795	465244	100.00%	18.732%
9	10.049	1465	1470	1490	rBV	295471	421063	90.50%	16.953%
10	11.079	1634	1639	1652	rBV	243881	309987	66.63%	12.481%
11	12.018	1788	1793	1810	rBV	288514	365134	78.48%	14.701%

Sum of corrected areas: 2483741

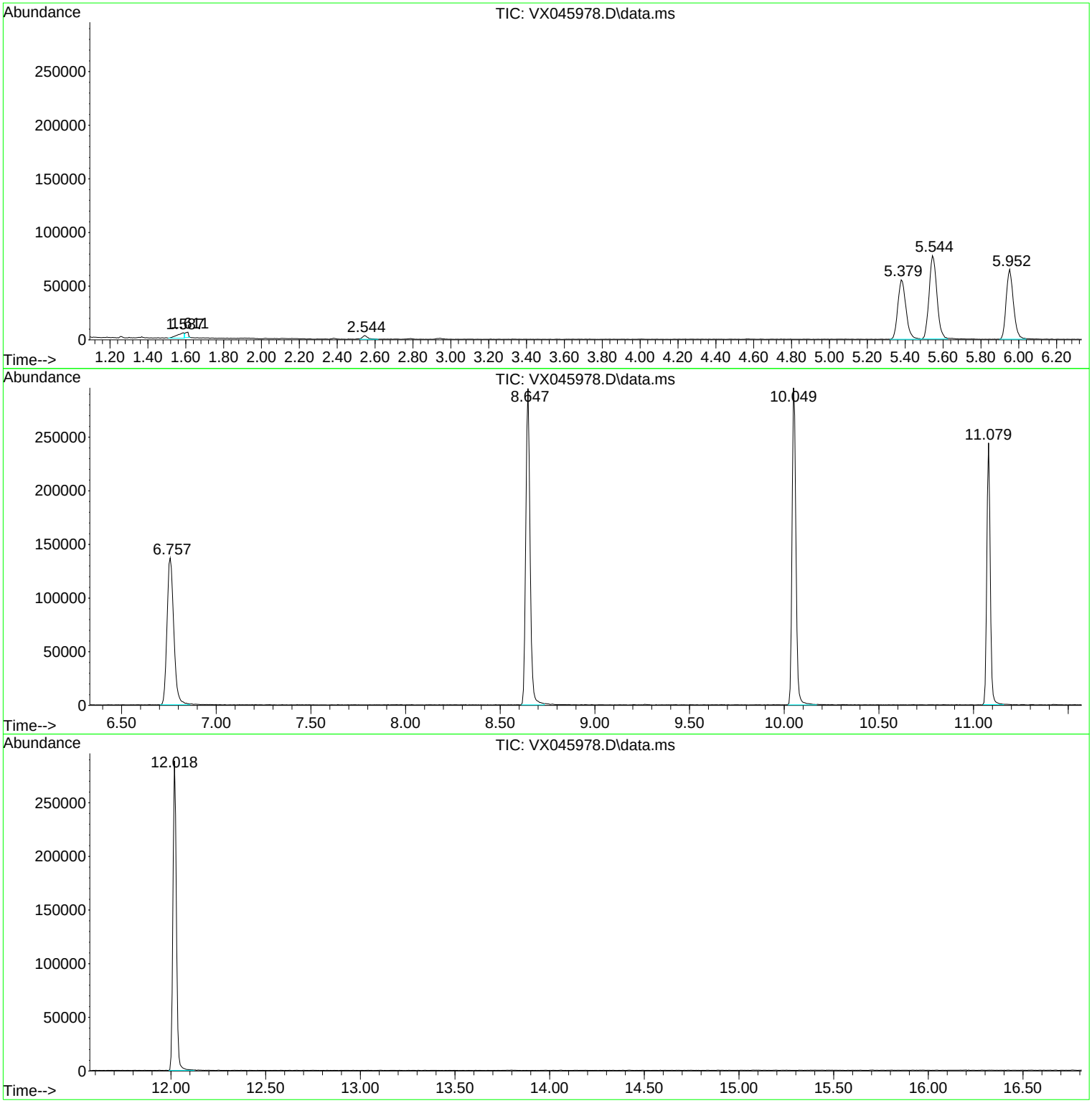
Sample Results: **VX045978.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VX045978.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Time: Apr 30 01:35:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	63902	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127024	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64358	55.073	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.140%			
35) Dibromofluoromethane	5.379	113	46535	51.635	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.260%			
50) Toluene-d8	8.647	98	156429	49.728	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.460%			
62) 4-Bromofluorobenzene	11.079	95	57215	49.934	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.860%			

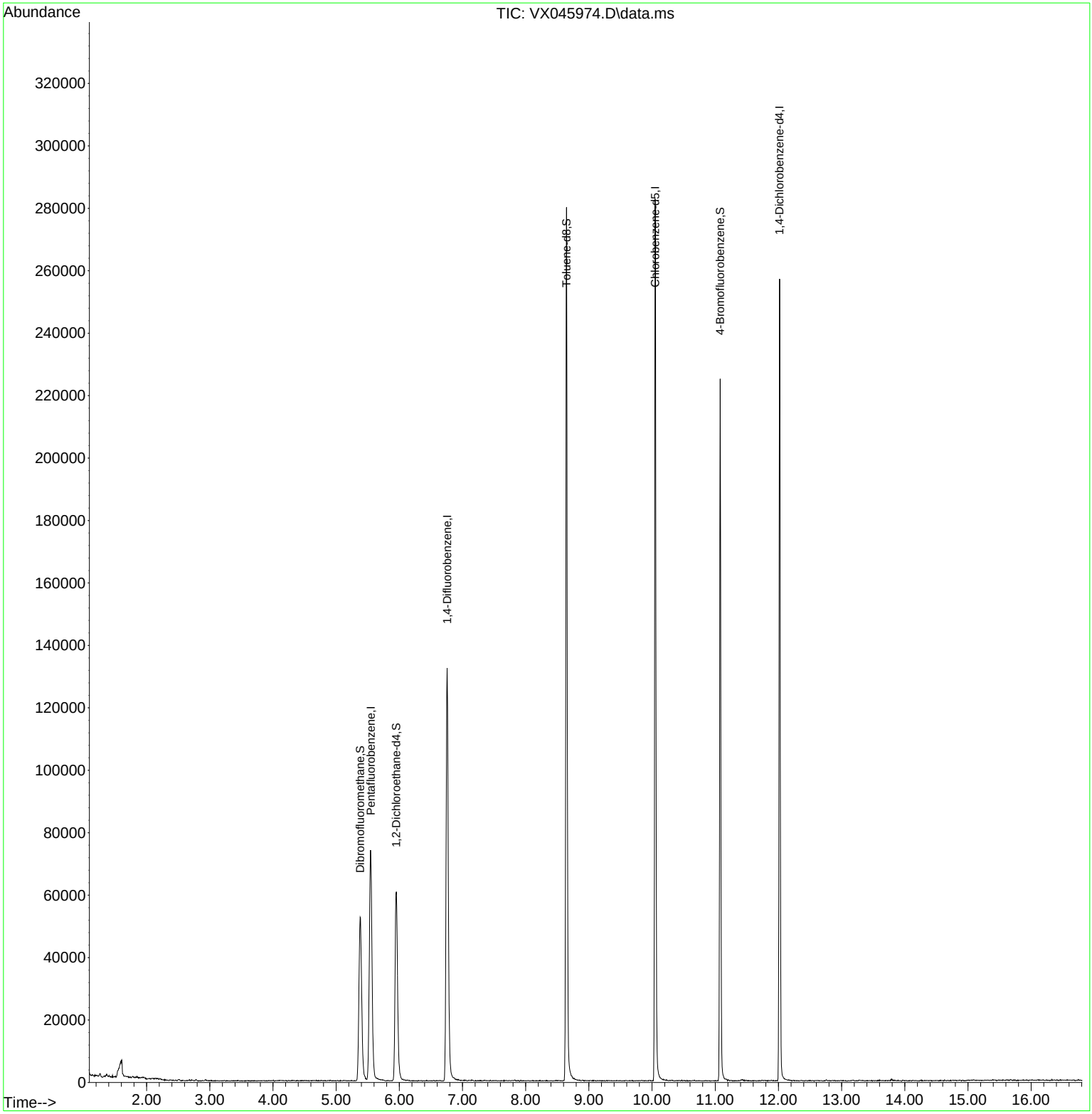
Target Compounds Qvalue

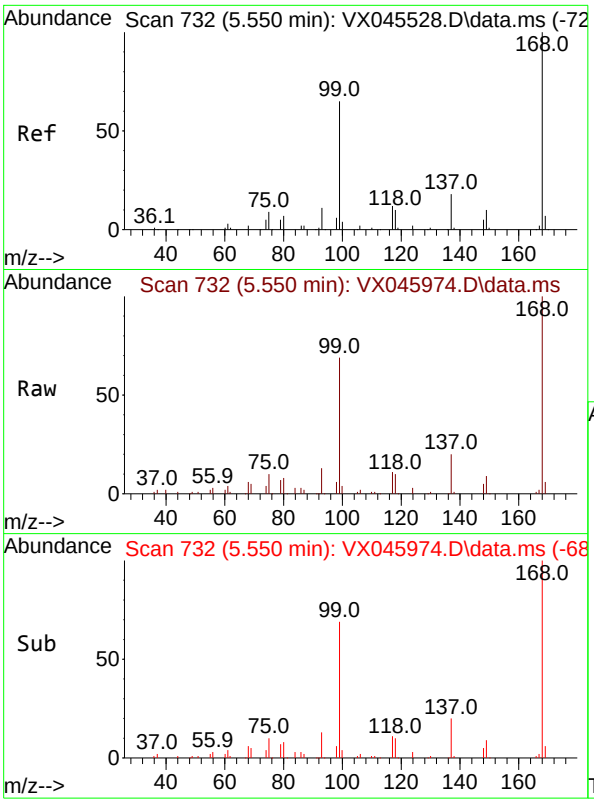
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Time: Apr 30 01:35:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



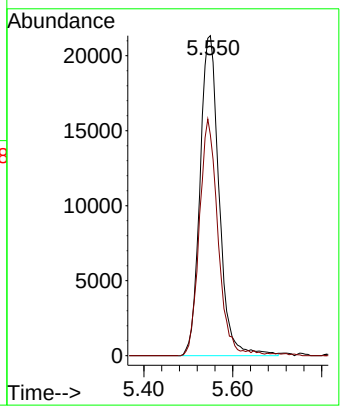


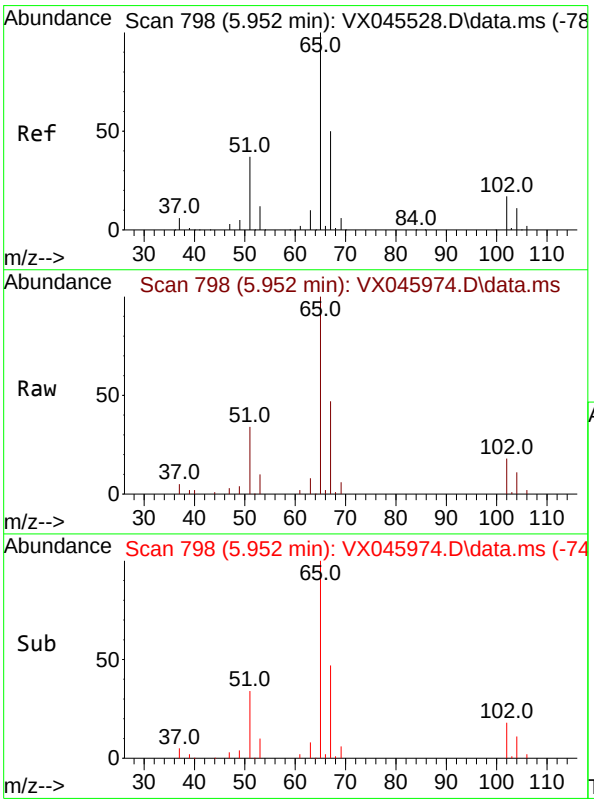
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Tgt Ion:168 Resp: 63902

Ion	Ratio	Lower	Upper
168	100		
99	69.0	52.3	78.5

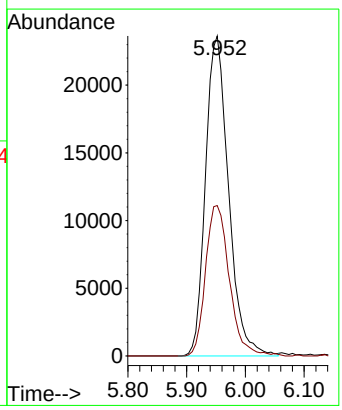


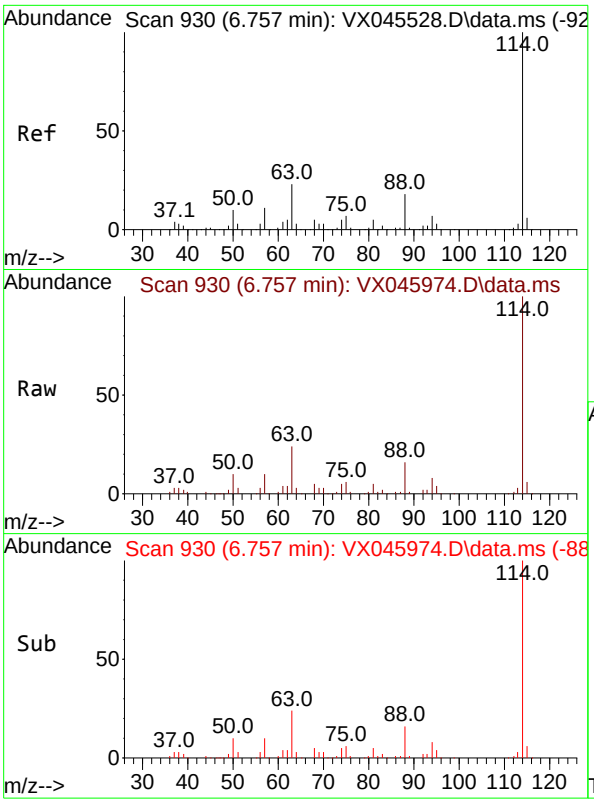


#33
1,2-Dichloroethane-d4
Concen: 55.073 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Tgt Ion: 65 Resp: 64358

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0



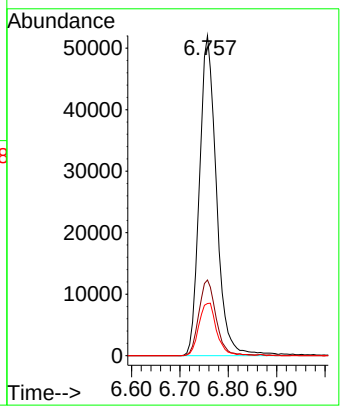


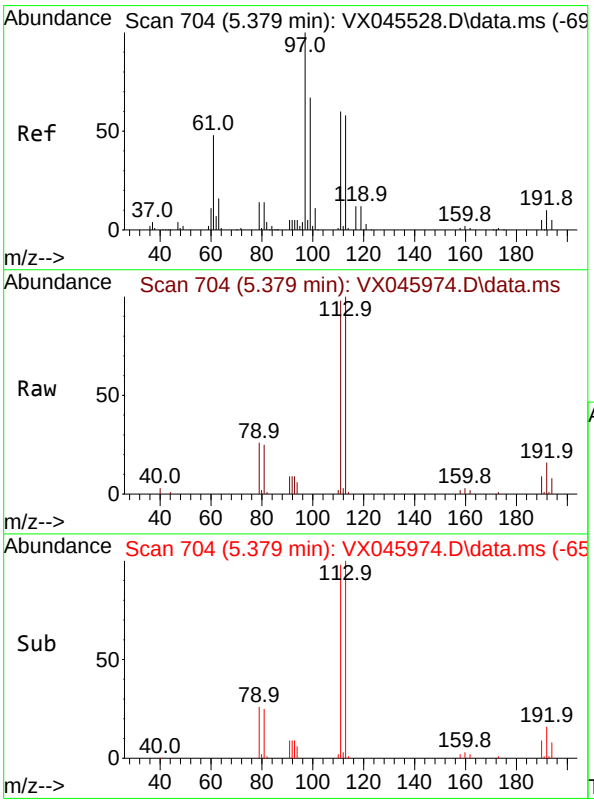
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Tgt Ion:114 Resp: 127024

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	46.8
88	16.3	0.0	35.4

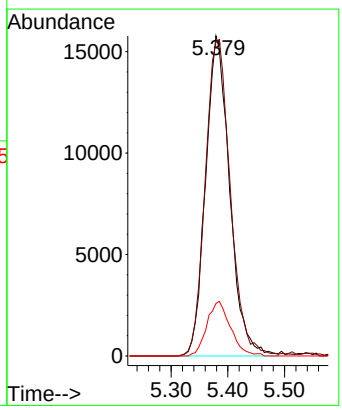


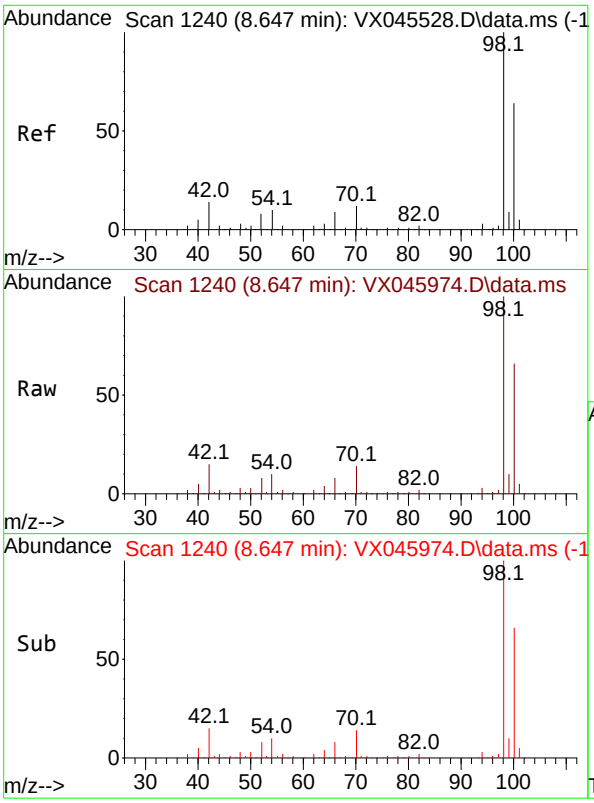


#35
Dibromofluoromethane
Concen: 51.635 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Tgt Ion:113 Resp: 46535

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	16.7	13.8	20.6



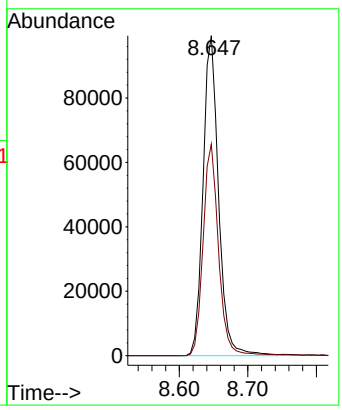


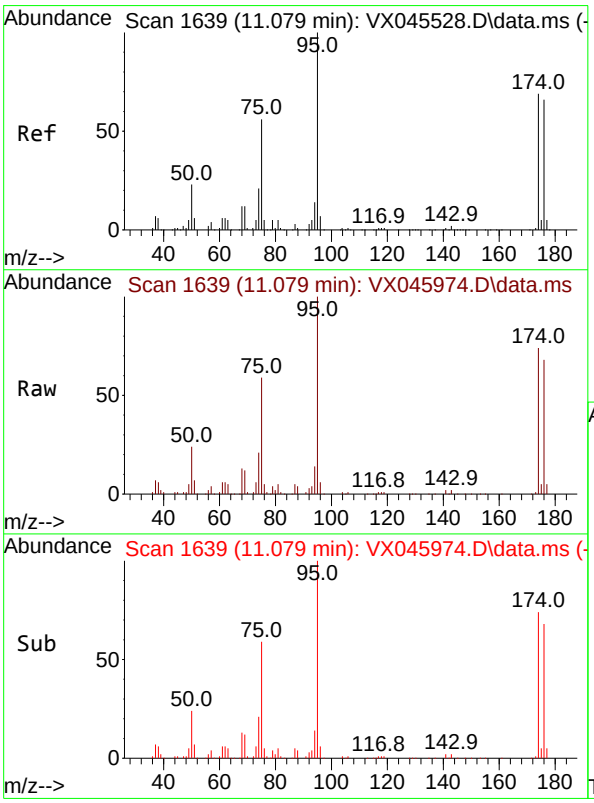
#50
Toluene-d8
Concen: 49.728 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Tgt Ion: 98 Resp: 156429

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.2	78.4

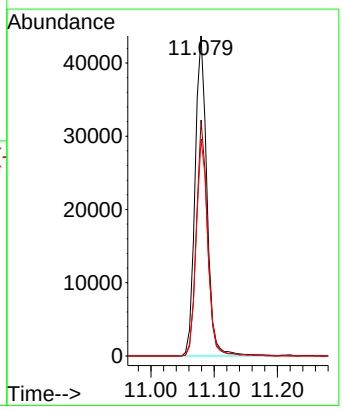


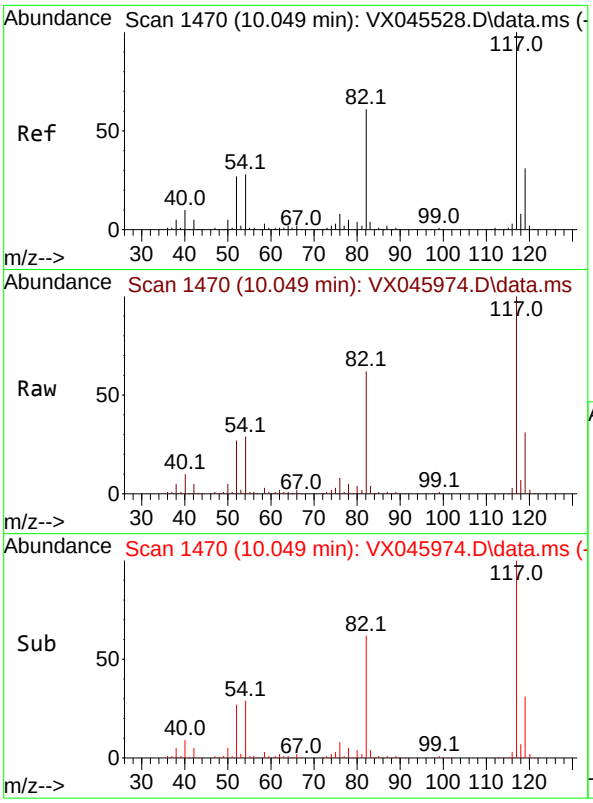


#62
4-Bromofluorobenzene
Concen: 49.934 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Tgt Ion: 95 Resp: 57215

Ion	Ratio	Lower	Upper
95	100		
174	69.2	0.0	135.8
176	66.8	0.0	131.4



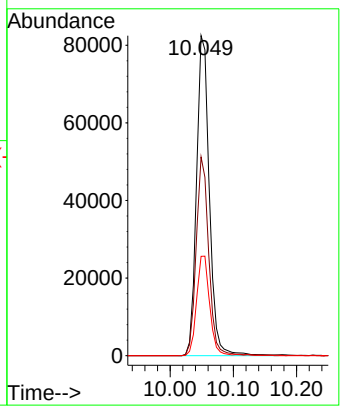


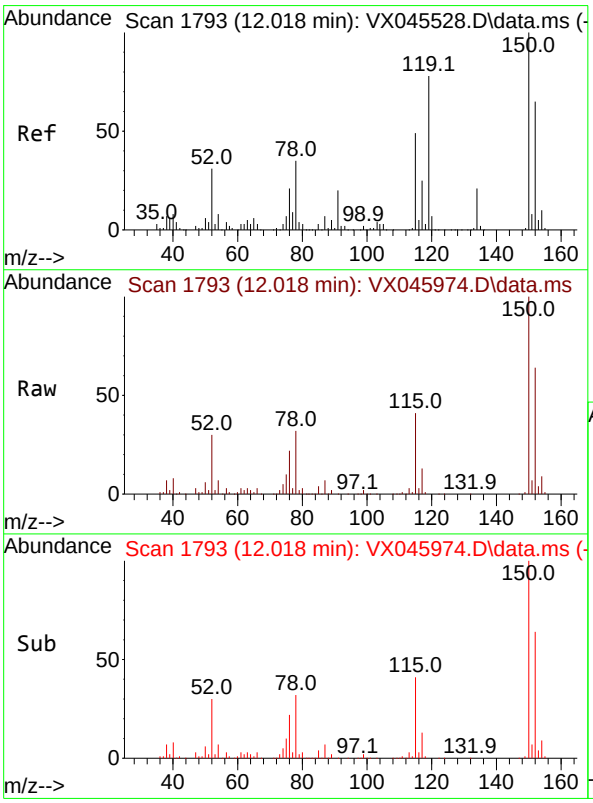
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Tgt Ion:117 Resp: 116648

Ion	Ratio	Lower	Upper
117	100		
82	62.1	49.2	73.8
119	31.1	25.1	37.7

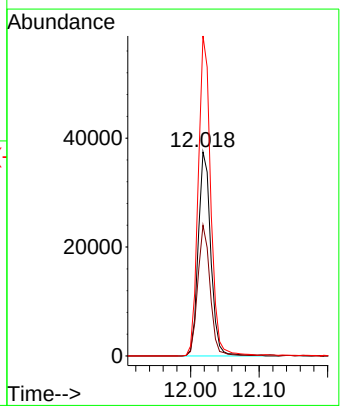




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Tgt Ion:152 Resp: 47876

Ion	Ratio	Lower	Upper
152	100		
115	63.2	46.9	140.7
150	155.7	0.0	349.4



Sample Results: **VX045974.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045974.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	70	82	83	rBV4	5005	12957	2.94%	0.557%
2	1.605	83	85	88	rVB2	4539	4821	1.09%	0.207%
3	5.379	693	704	721	rBV	52386	158935	36.02%	6.827%
4	5.544	721	731	745	rBV	73483	211614	47.96%	9.089%
5	5.952	787	798	813	rBV	60594	167974	38.07%	7.215%
6	6.757	921	930	946	rBV2	132130	322044	72.99%	13.833%
7	8.647	1233	1240	1253	rBV	279678	441191	100.00%	18.951%
8	10.049	1465	1470	1489	rBV	282498	397007	89.99%	17.053%
9	11.079	1634	1639	1651	rBV	224816	286625	64.97%	12.311%
10	12.018	1788	1793	1808	rBV	256856	324949	73.65%	13.958%

Sum of corrected areas: 2328117

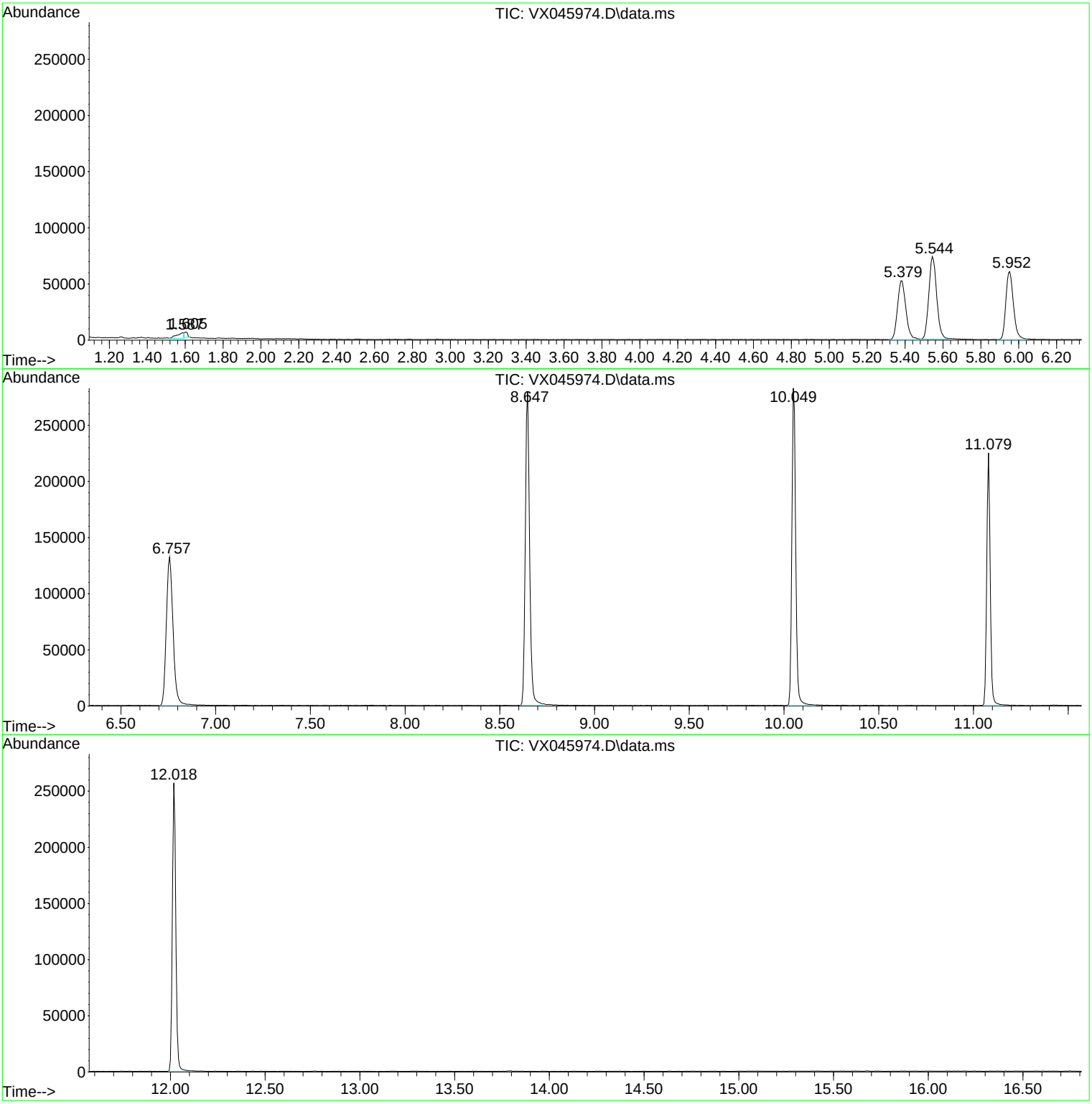
Sample Results: **VX045974.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Time: May 01 01:31:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	311598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	580894	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	511027	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	186896	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150607	52.327	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.660%			
35) Dibromofluoromethane	7.634	113	198874	51.821	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.640%			
50) Toluene-d8	10.109	98	697047	48.178	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.408	95	259683	53.317	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.640%			

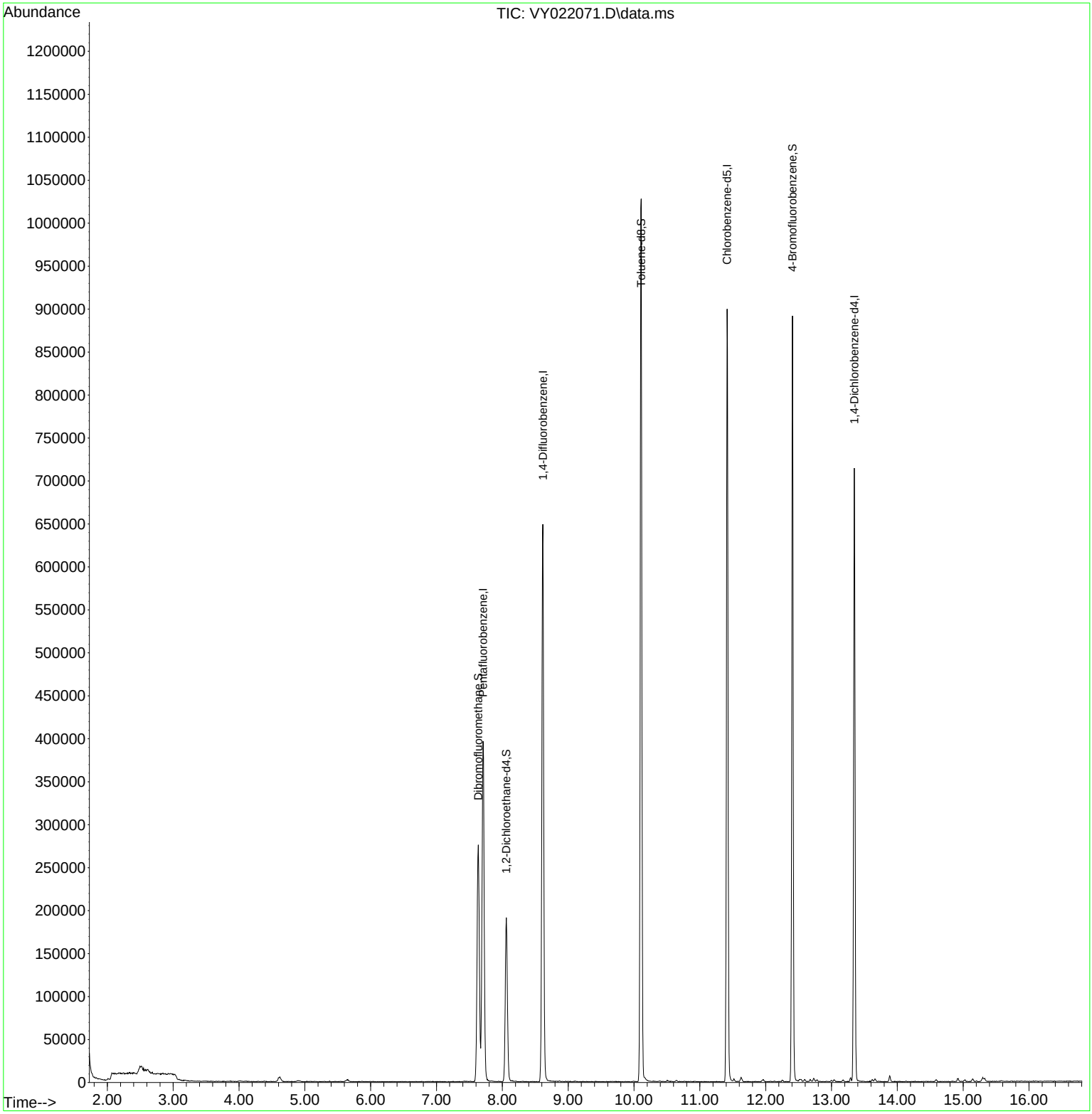
Target Compounds Qvalue

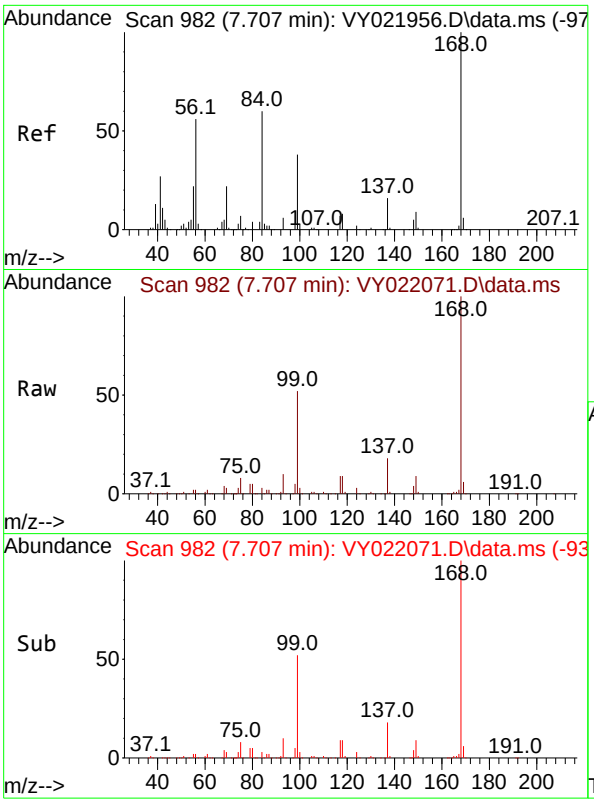
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Time: May 01 01:31:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



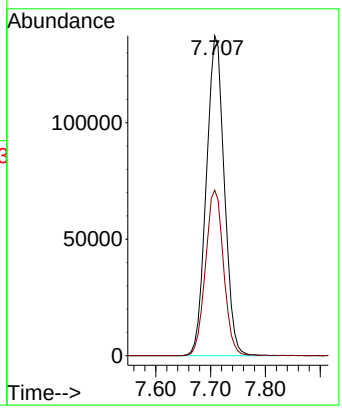


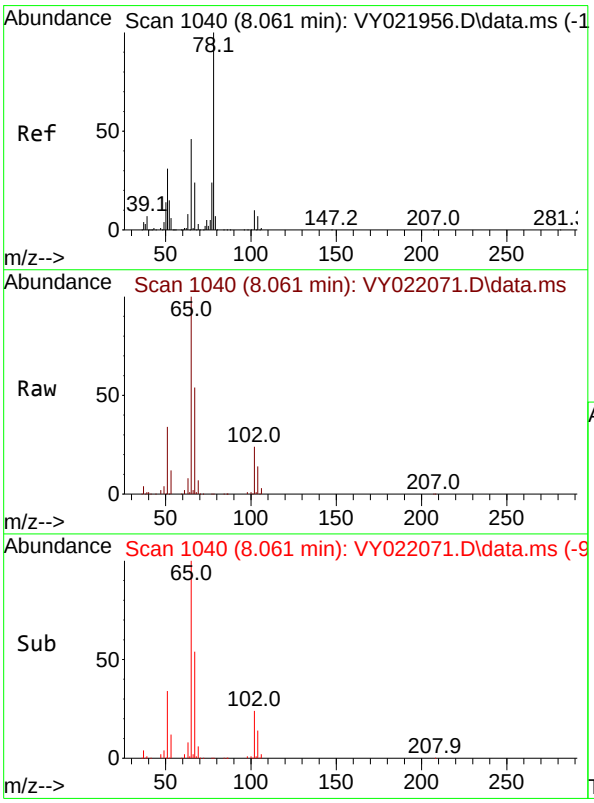
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Tgt Ion:168 Resp: 311598

Ion	Ratio	Lower	Upper
168	100		
99	51.8	43.1	64.7

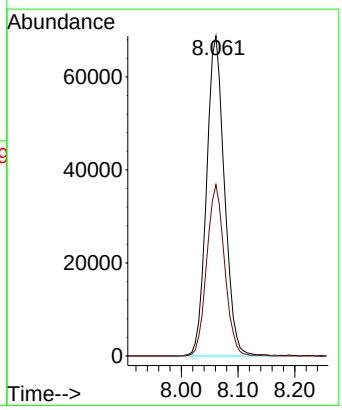


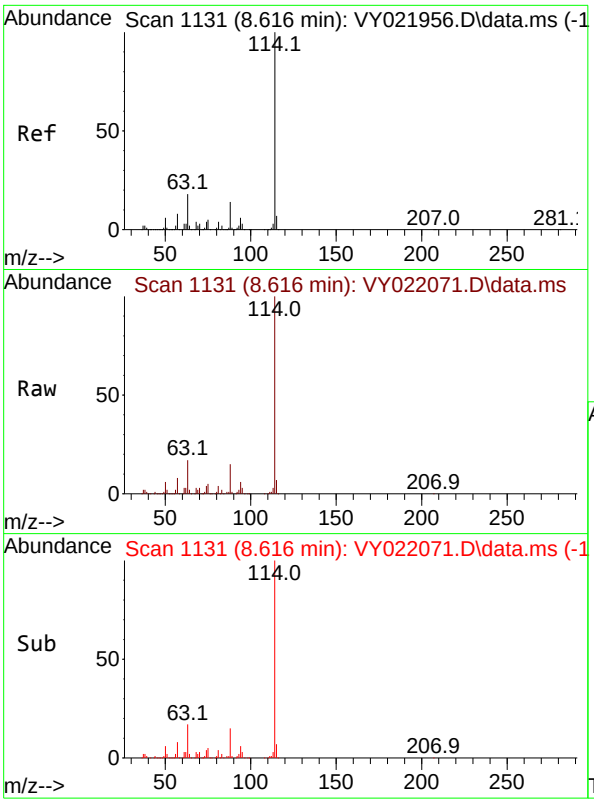


#33
1,2-Dichloroethane-d4
Concen: 52.327 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion: 65 Resp: 150607

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	105.8



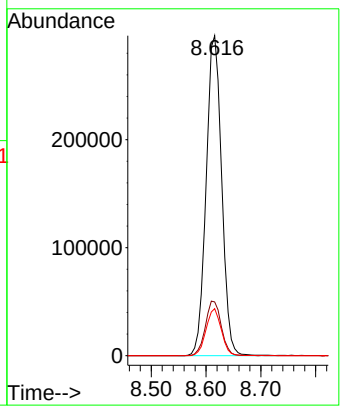


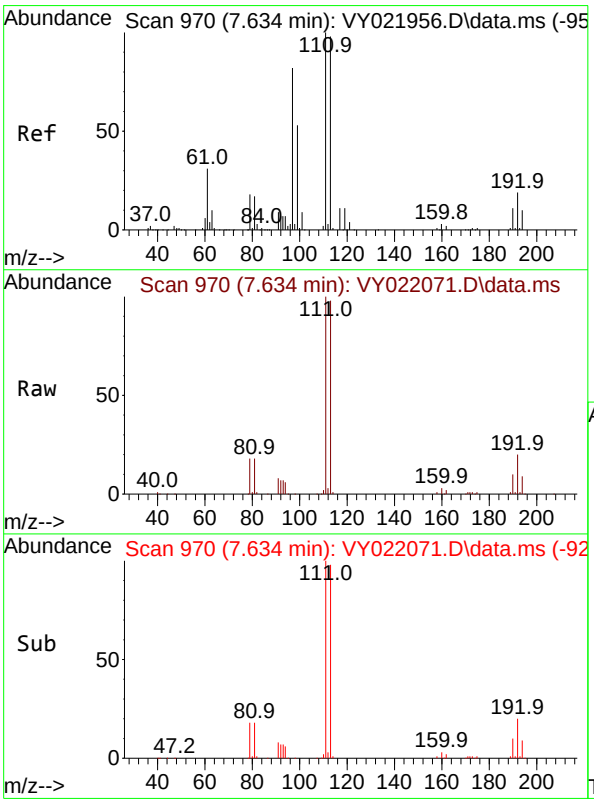
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Tgt Ion:114 Resp: 580894

Ion	Ratio	Lower	Upper
114	100		
63	16.8	0.0	35.4
88	14.7	0.0	28.2

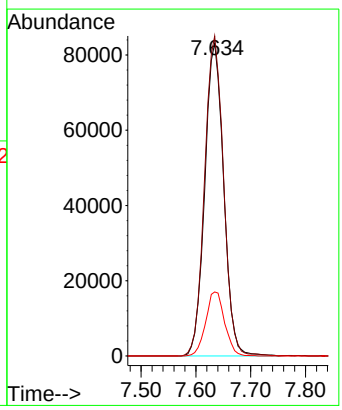


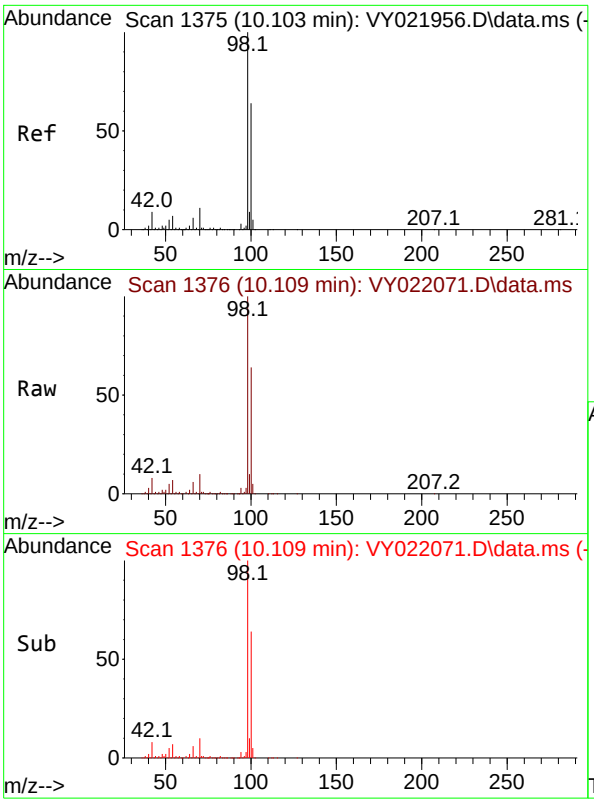


#35
Dibromofluoromethane
Concen: 51.821 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion:113 Resp: 198874

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	20.5	15.6	23.4



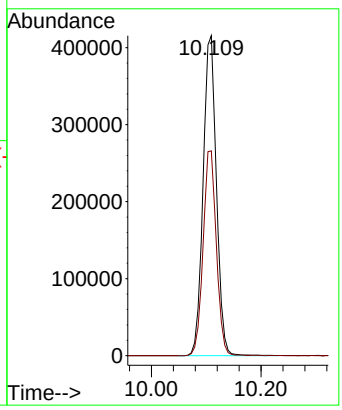


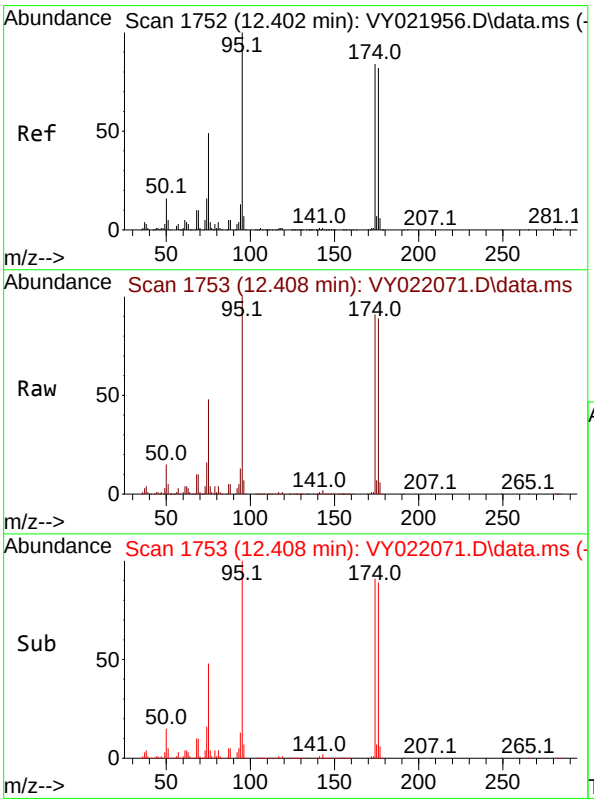
#50
Toluene-d8
Concen: 48.178 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Tgt Ion: 98 Resp: 697047

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.6	77.4

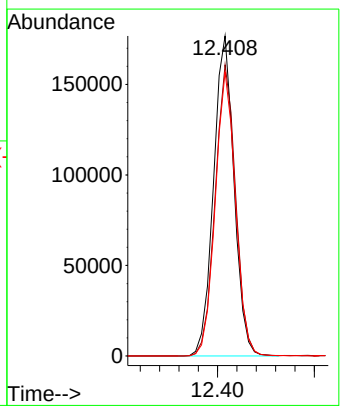


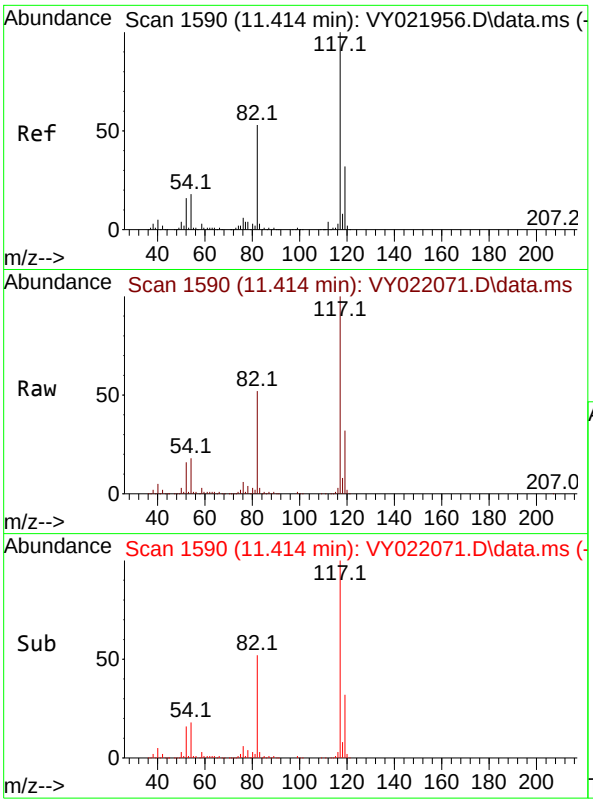


#62
4-Bromofluorobenzene
Concen: 53.317 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion: 95 Resp: 259683

Ion	Ratio	Lower	Upper
95	100		
174	91.2	0.0	179.0
176	87.8	0.0	171.8



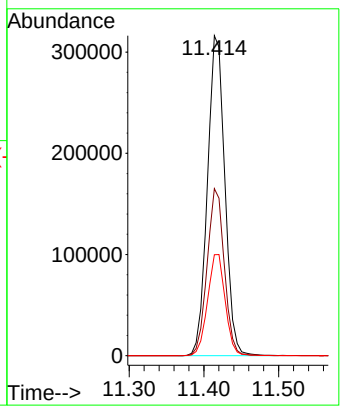


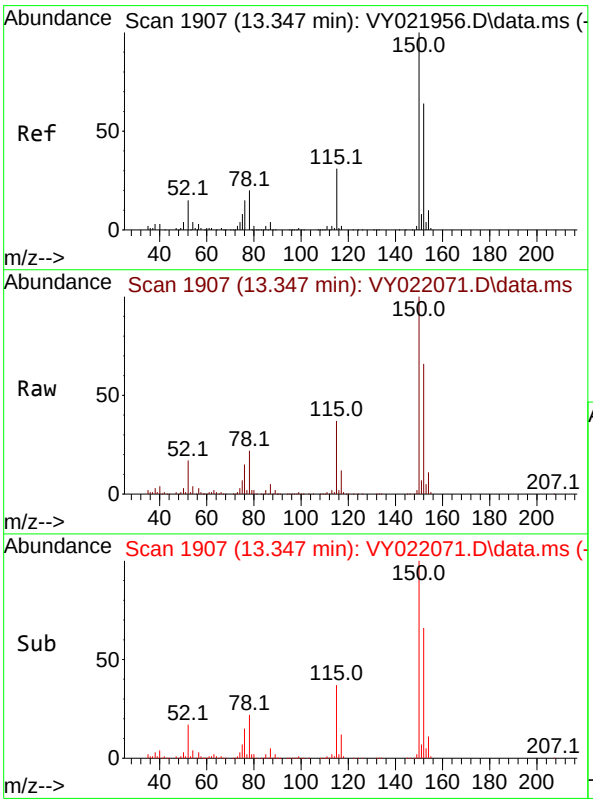
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Tgt Ion:117 Resp: 511027

Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.1	63.1
119	31.6	25.7	38.5

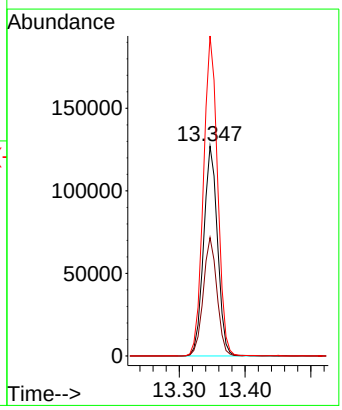




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion:152 Resp: 186896

Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.0	84.0
150	155.1	0.0	345.6



Sample Results: **VY022071.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022071.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.634	959	970	976	rBV	275568	662472	37.68%	7.480%
2	7.707	976	982	996	rVB	395565	894886	50.90%	10.104%
3	8.061	1030	1040	1051	rBV2	190974	427512	24.31%	4.827%
4	8.616	1122	1131	1144	rBV	648749	1273883	72.45%	14.384%
5	10.109	1367	1376	1395	rBV	1027561	1758262	100.00%	19.853%
6	11.414	1583	1590	1603	rBV	899099	1457691	82.91%	16.459%
7	12.408	1745	1753	1762	rBV	891073	1325837	75.41%	14.970%
8	13.347	1900	1907	1915	rBV	712938	1055872	60.05%	11.922%

Sum of corrected areas: 8856415

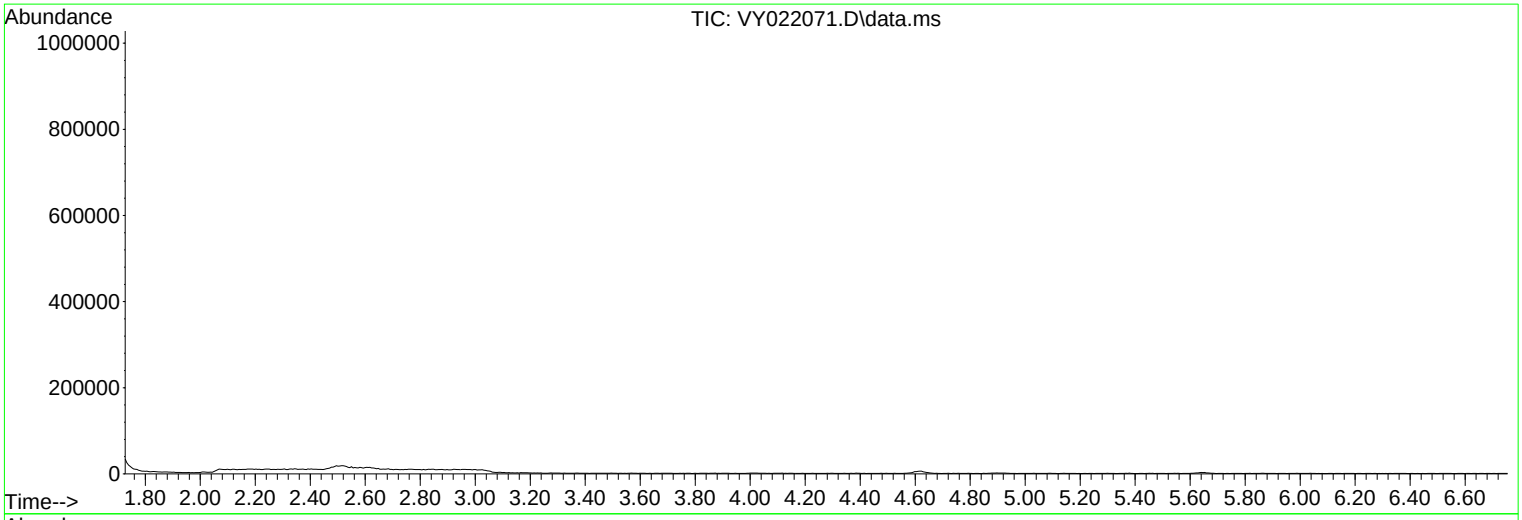
Sample Results: **VY022071.D**

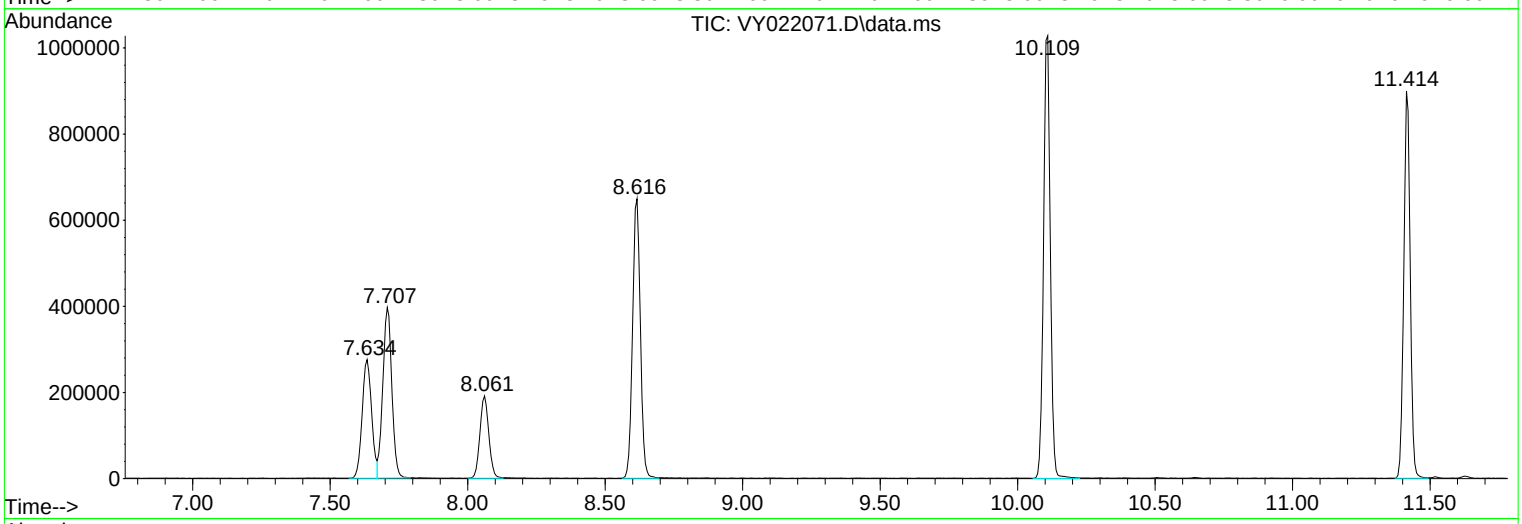
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

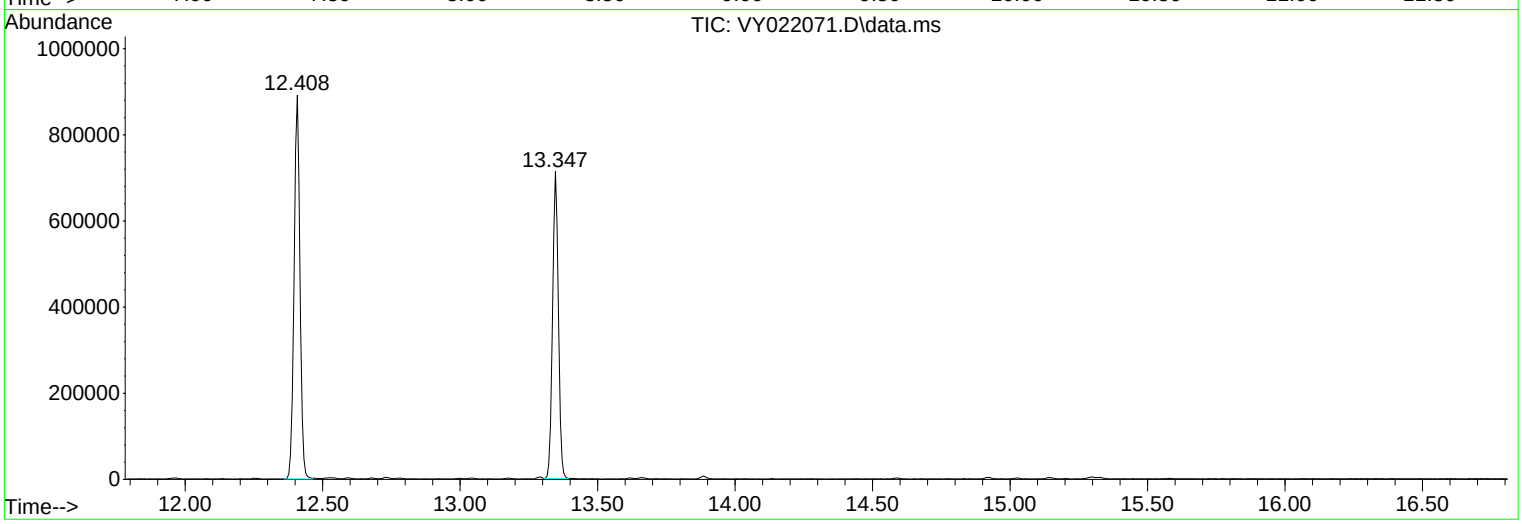
Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY022071.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Time: May 01 12:53:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

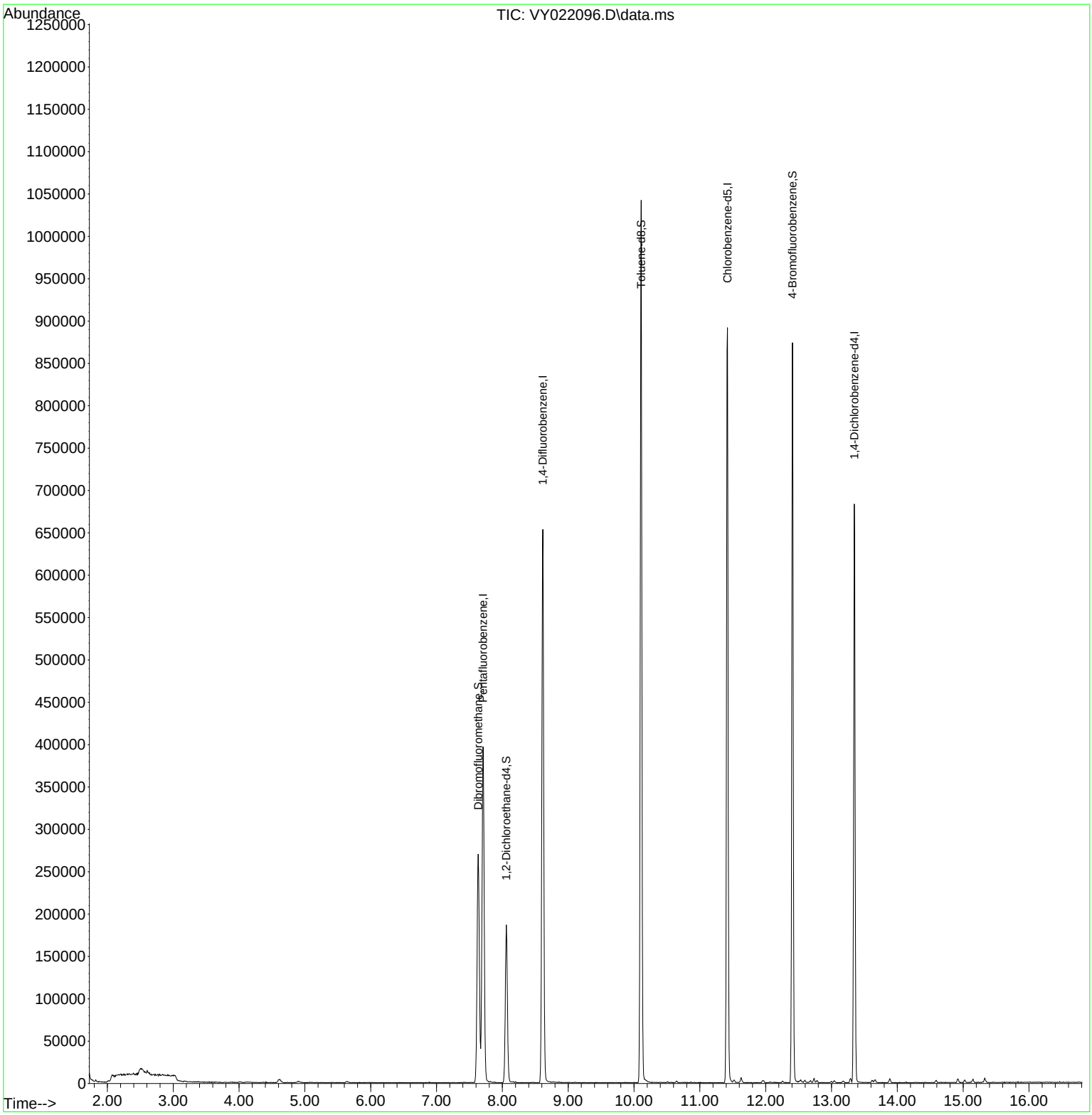
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	317996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	585580	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	508953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	180066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	144517	49.201	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.400%			
35) Dibromofluoromethane	7.634	113	195715	50.590	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.180%			
50) Toluene-d8	10.109	98	696910	47.783	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.560%			
62) 4-Bromofluorobenzene	12.407	95	260745	53.107	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.220%			
Target Compounds						Qvalue

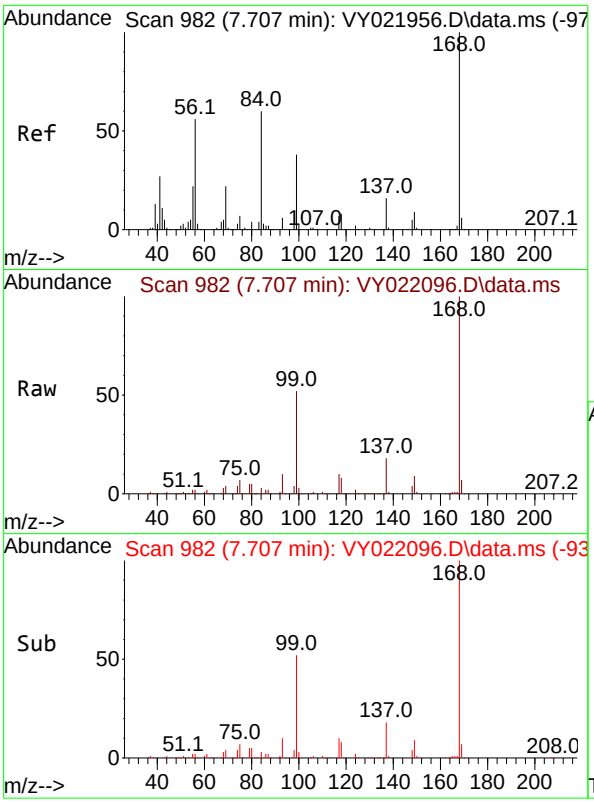
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Time: May 01 12:53:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



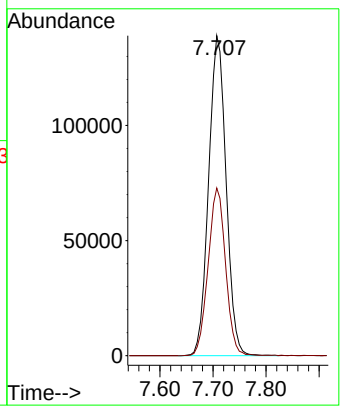


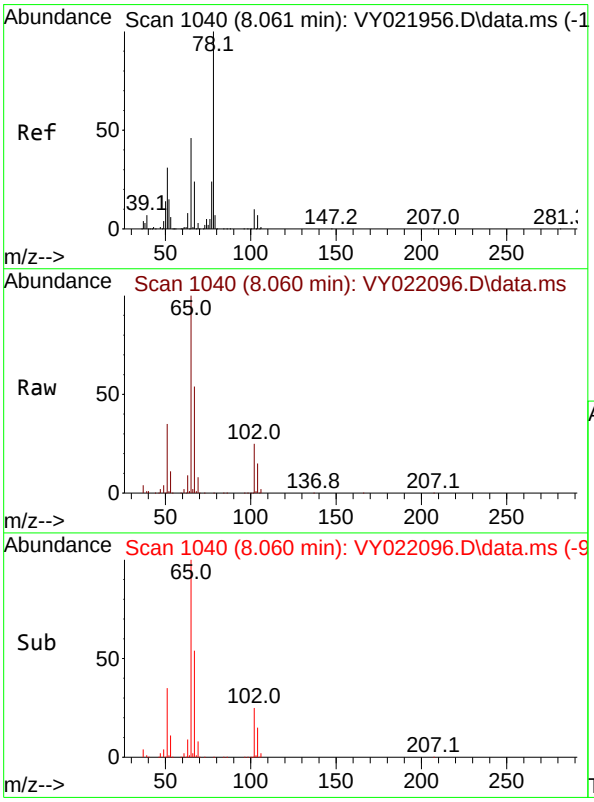
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion:168 Resp: 317996

Ion	Ratio	Lower	Upper
168	100		
99	52.4	43.1	64.7

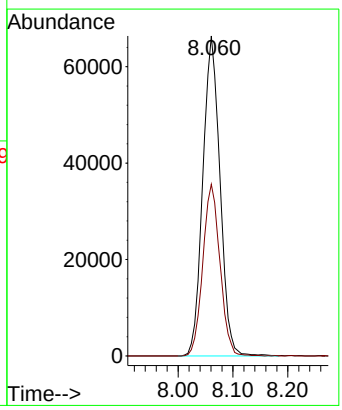


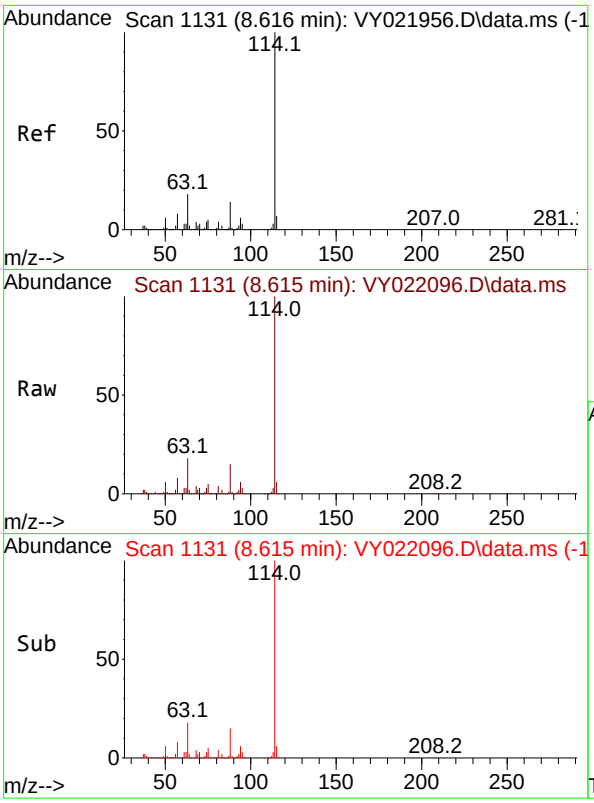


#33
1,2-Dichloroethane-d4
Concen: 49.201 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion: 65 Resp: 144517

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	105.8



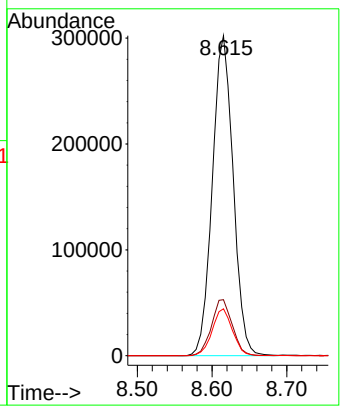


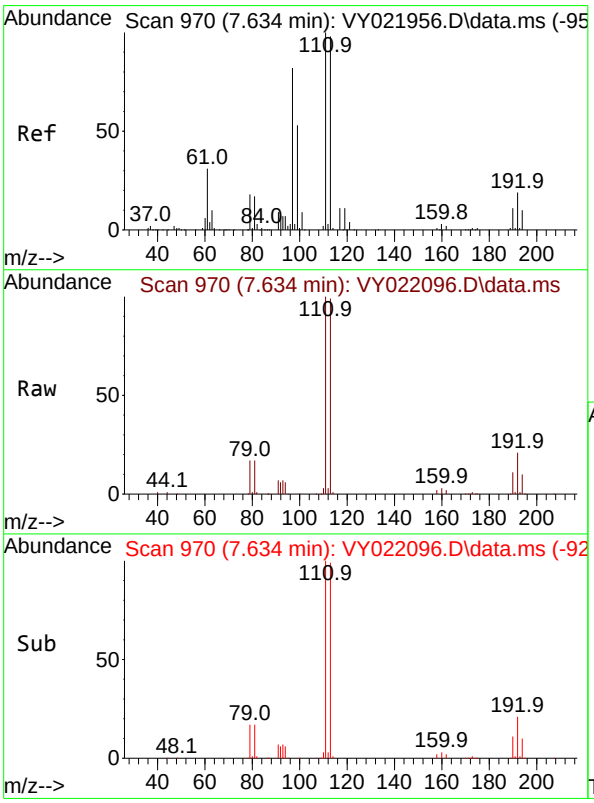
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion:114 Resp: 585580

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.4
88	14.7	0.0	28.2

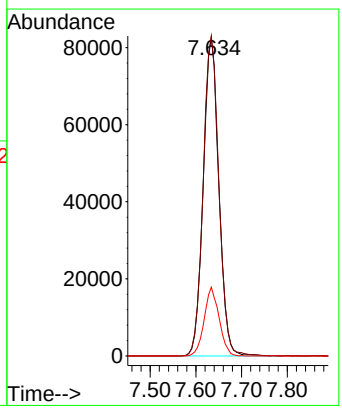


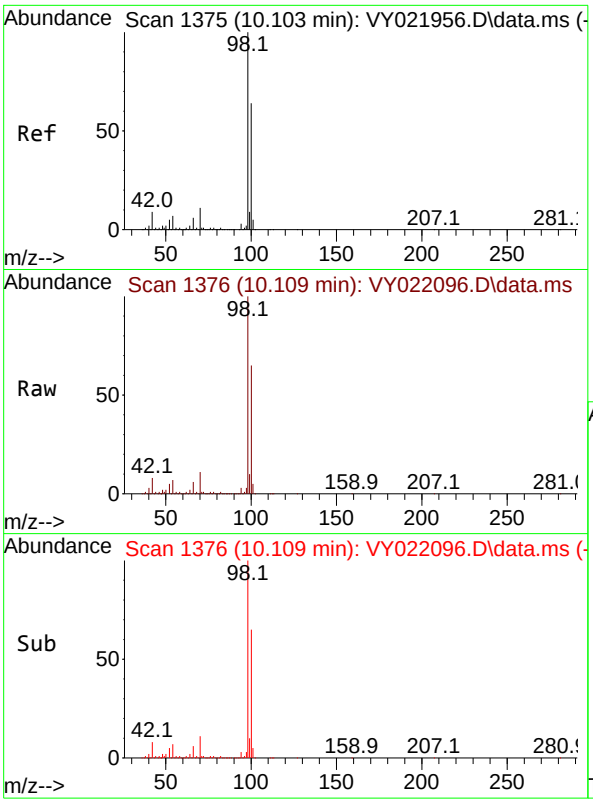


#35
Dibromofluoromethane
Concen: 50.590 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion:113 Resp: 195715

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.8	122.8
192	20.6	15.6	23.4



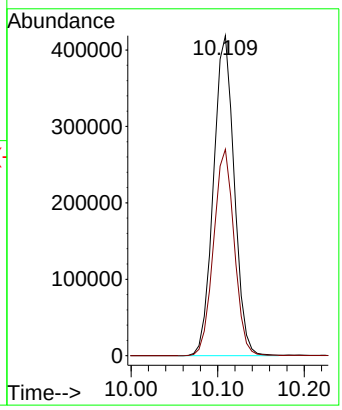


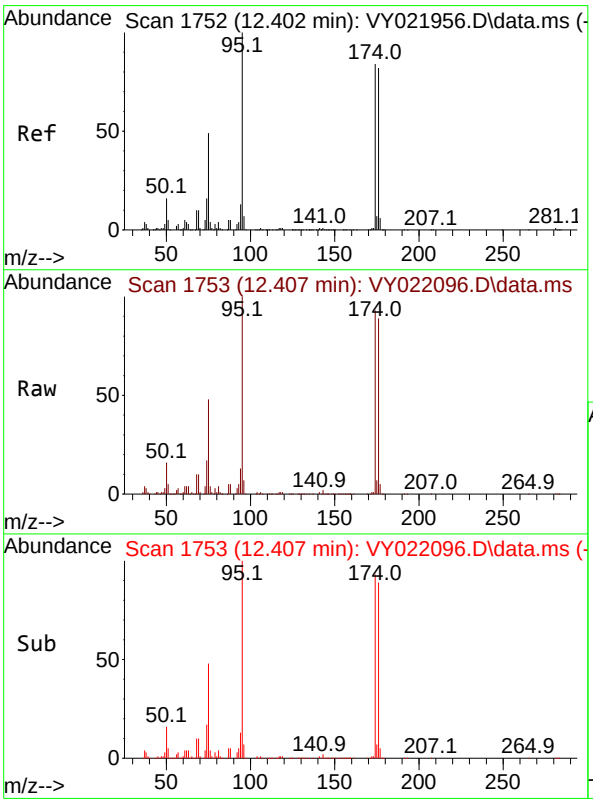
#50
Toluene-d8
Concen: 47.783 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion: 98 Resp: 696910

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.6	77.4

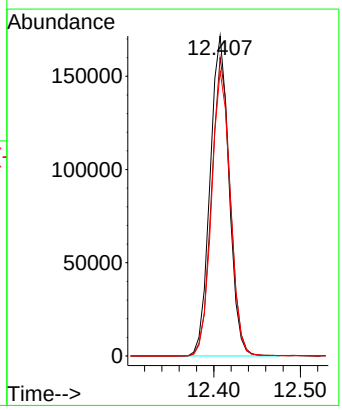


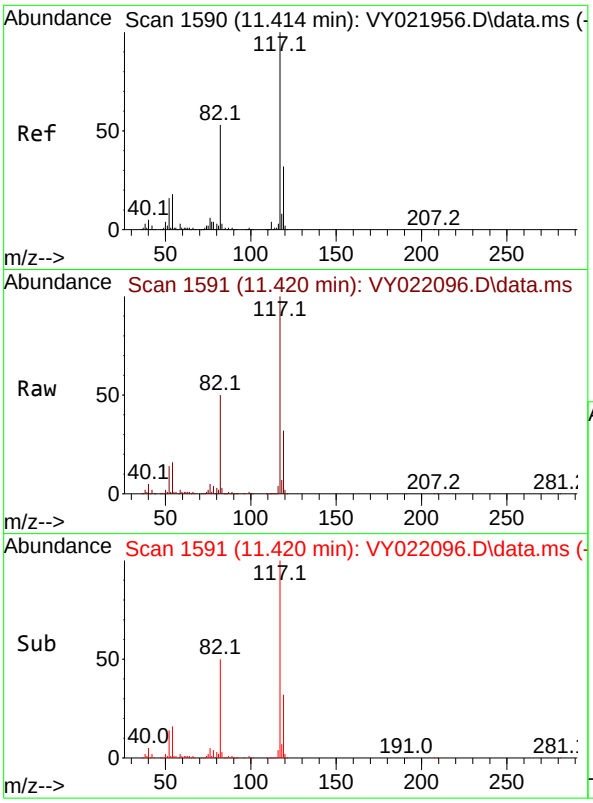


#62
4-Bromofluorobenzene
Concen: 53.107 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion: 95 Resp: 260745

Ion	Ratio	Lower	Upper
95	100		
174	91.9	0.0	179.0
176	88.4	0.0	171.8



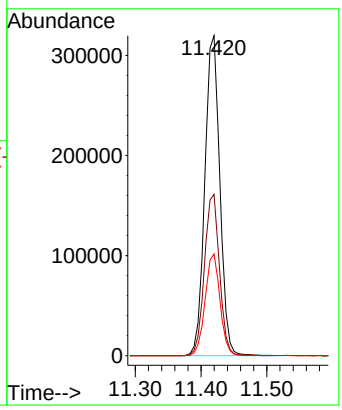


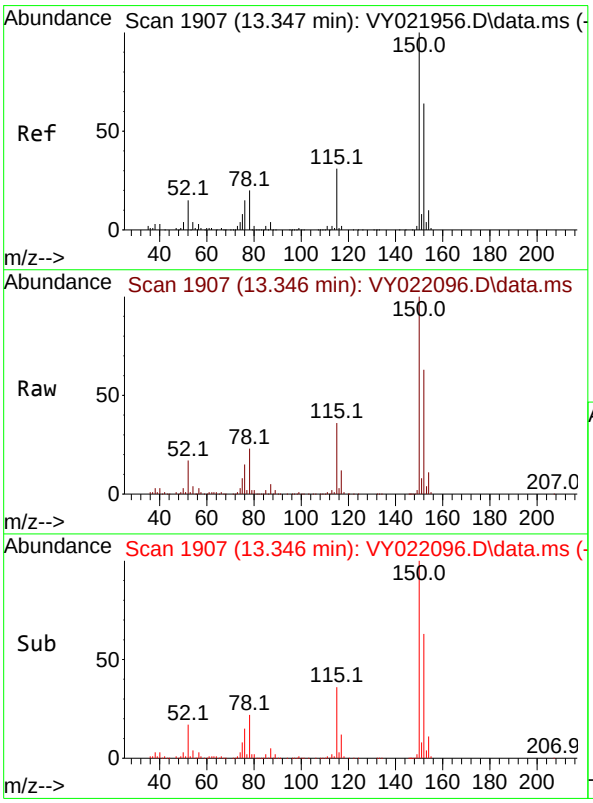
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion:117 Resp: 508953

Ion	Ratio	Lower	Upper
117	100		
82	50.4	42.1	63.1
119	31.8	25.7	38.5

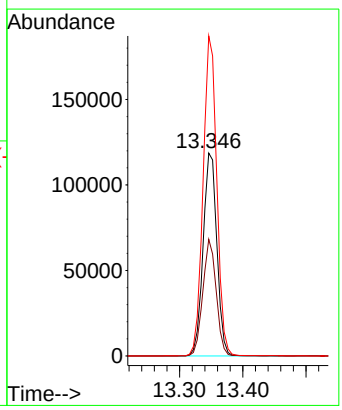




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion:152 Resp: 180066

Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.0	84.0
150	156.0	0.0	345.6



Sample Results: **VY022096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260

Signal : TIC: VY022096.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	120	129	130	rBV7	7844	17809	1.02%	0.202%
2	7.634	960	970	976	rBV	269609	642245	36.64%	7.286%
3	7.707	976	982	996	rVB	395838	906459	51.71%	10.283%
4	8.060	1031	1040	1053	rBV	186572	414158	23.63%	4.698%
5	8.615	1122	1131	1147	rBV	653108	1282212	73.15%	14.546%
6	10.109	1368	1376	1384	rBV	1041890	1752899	100.00%	19.886%
7	11.420	1582	1591	1603	rBV	891567	1442394	82.29%	16.363%
8	12.407	1746	1753	1768	rBV	873676	1332394	76.01%	15.116%
9	13.346	1901	1907	1922	rVB	682693	1024172	58.43%	11.619%

Sum of corrected areas: 8814742

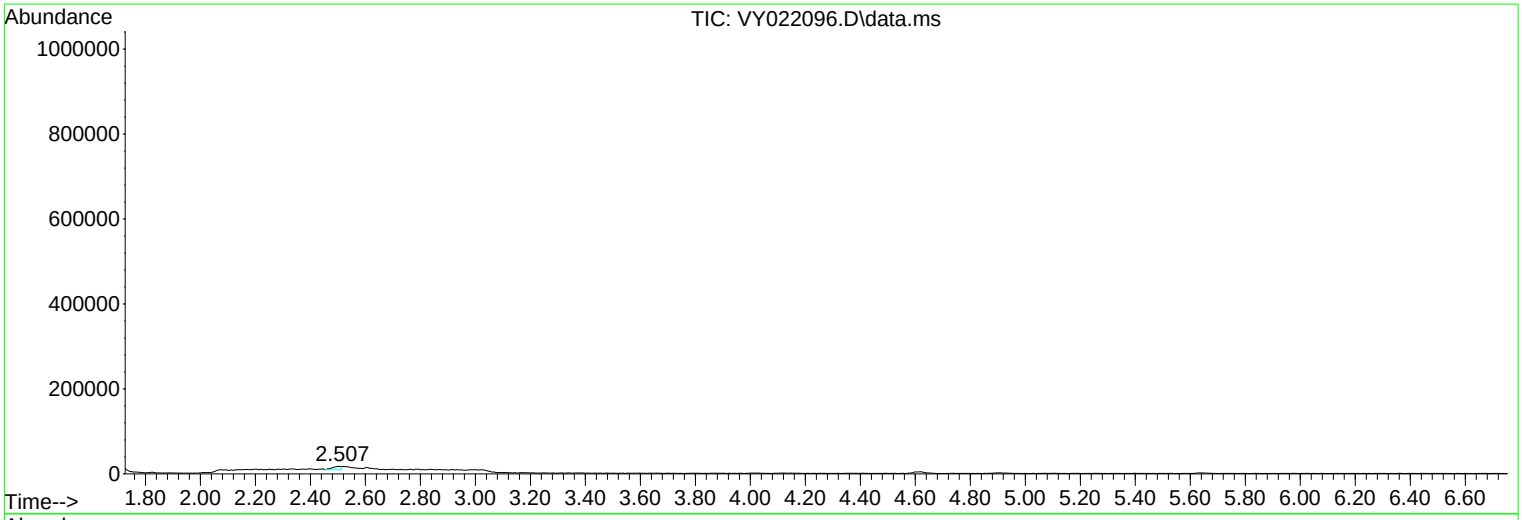
Sample Results: **VY022096.D**

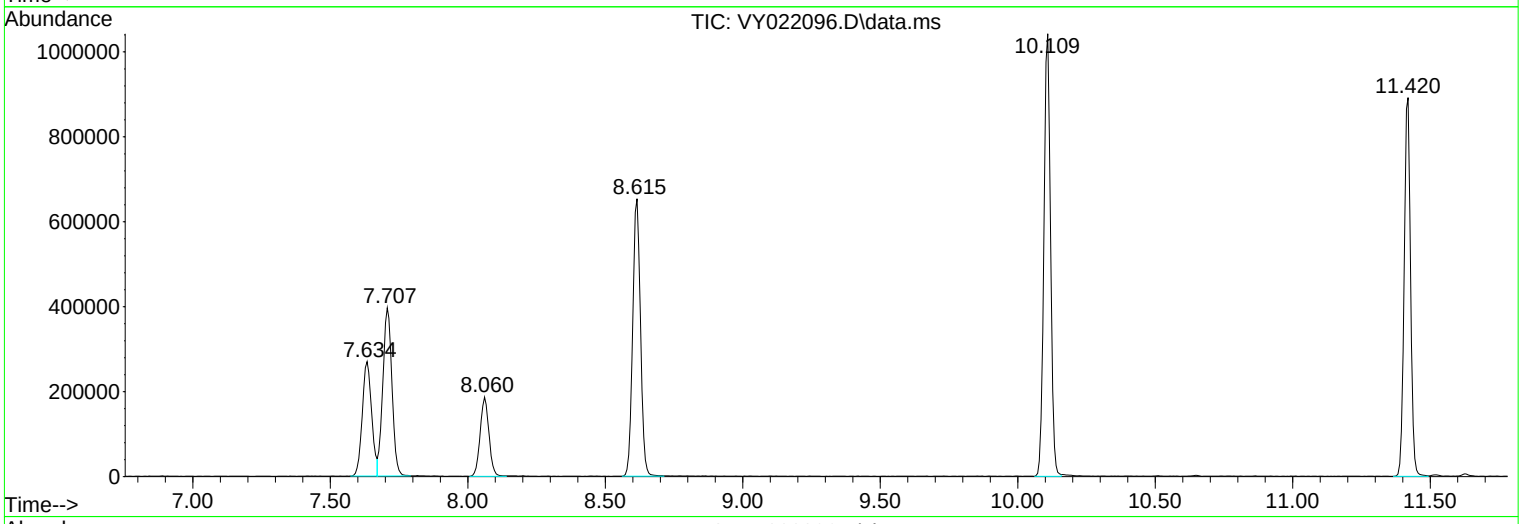
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

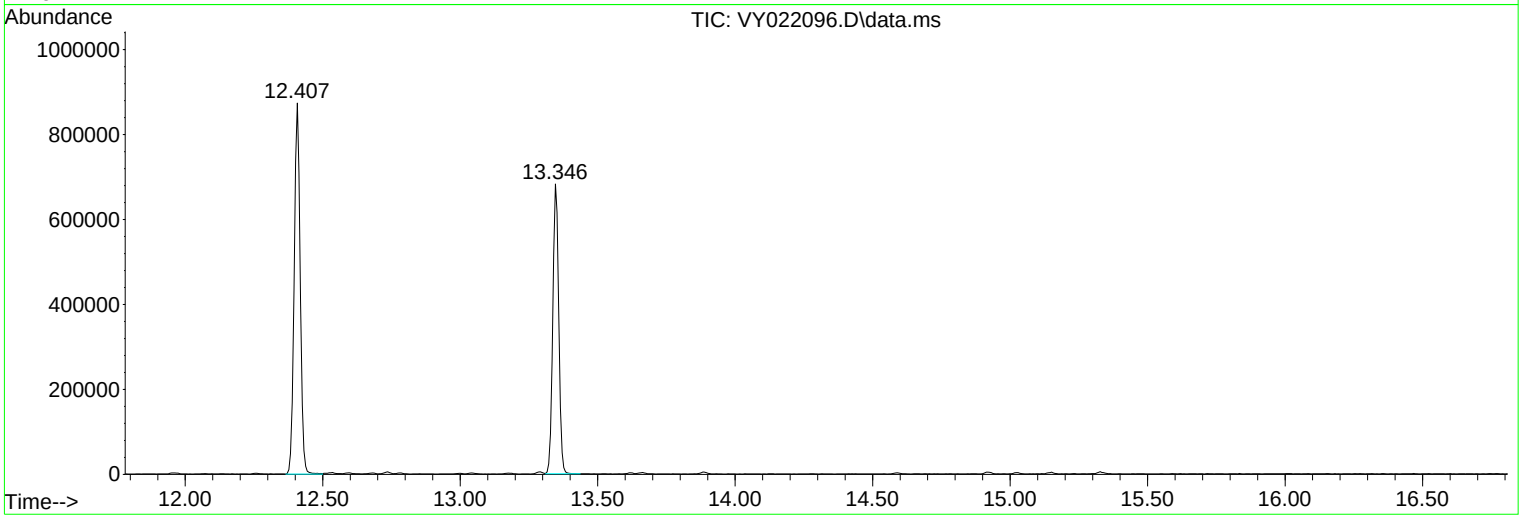
Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045975.D
Acq On : 29 Apr 2025 12:21
Operator : JC/MD
Sample : VX0429WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 30 01:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	80632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	140487	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	122568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	79501	53.915	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.840%			
35) Dibromofluoromethane	5.379	113	55216	55.396	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.800%			
50) Toluene-d8	8.647	98	184446	53.016	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.040%			
62) 4-Bromofluorobenzene	11.079	95	71406	56.347	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	20933	17.360	ug/l	99
3) Chloromethane	1.301	50	20239	16.337	ug/l	96
4) Vinyl Chloride	1.374	62	19140	16.883	ug/l	99
5) Bromomethane	1.593	94	9415	17.515	ug/l	100
6) Chloroethane	1.673	64	12245	20.358	ug/l	98
7) Trichlorofluoromethane	1.880	101	32749	19.371	ug/l	98
8) Diethyl Ether	2.130	74	11050	19.469	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	20234	20.425	ug/l	98
10) Methyl Iodide	2.447	142	22380	18.112	ug/l	96
11) Tert butyl alcohol	2.971	59	20596	103.932	ug/l	98
12) 1,1-Dichloroethene	2.313	96	17859	18.450	ug/l	96
13) Acrolein	2.233	56	30163	110.531	ug/l	99
14) Allyl chloride	2.654	41	35730	19.454	ug/l	99
15) Acrylonitrile	3.063	53	61950	99.034	ug/l	98
16) Acetone	2.380	43	59194	97.762	ug/l	97
17) Carbon Disulfide	2.508	76	32070	13.414	ug/l	99
18) Methyl Acetate	2.703	43	39576	28.389	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	71602	21.145	ug/l	98
20) Methylene Chloride	2.782	84	21785	19.218	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	17645	17.843	ug/l	93
22) Diisopropyl ether	3.758	45	75771	20.943	ug/l #	87
23) Vinyl Acetate	3.721	43	305248	97.653	ug/l	99
24) 1,1-Dichloroethane	3.605	63	41051	20.063	ug/l	97
25) 2-Butanone	4.556	43	89868	101.395	ug/l	96
26) 2,2-Dichloropropane	4.471	77	31094	23.521	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	23917	19.851	ug/l	98
28) Bromochloromethane	4.891	49	21747	21.994	ug/l	97
29) Tetrahydrofuran	5.007	42	55579	96.722	ug/l	98
30) Chloroform	5.087	83	44363	21.072	ug/l	97
31) Cyclohexane	5.465	56	32630	18.039	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	36667	20.583	ug/l	99
36) 1,1-Dichloropropene	5.690	75	26951	20.026	ug/l	99
37) Ethyl Acetate	4.709	43	32815	19.348	ug/l	99
38) Carbon Tetrachloride	5.672	117	30835	21.200	ug/l	91
39) Methylcyclohexane	7.379	83	31049	18.821	ug/l	99
40) Benzene	6.032	78	81137	19.740	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045975.D
Acq On : 29 Apr 2025 12:21
Operator : JC/MD
Sample : VX0429WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 30 01:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	19414	21.695	ug/l		98
42) 1,2-Dichloroethane	6.080	62	36439	21.464	ug/l		100
43) Isopropyl Acetate	6.342	43	52611	20.467	ug/l		99
44) Trichloroethene	7.123	130	19439	19.898	ug/l		99
45) 1,2-Dichloropropane	7.428	63	21438	20.904	ug/l		100
46) Dibromomethane	7.580	93	16625	21.118	ug/l		99
47) Bromodichloromethane	7.818	83	33664	21.412	ug/l		99
48) Methyl methacrylate	7.690	41	28494	21.469	ug/l		98
49) 1,4-Dioxane	7.659	88	9791	407.741	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	180040	105.654	ug/l		99
52) Toluene	8.714	92	50978	20.497	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	27141	19.419	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	31830	21.544	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	21739	21.934	ug/l		98
56) Ethyl methacrylate	9.116	69	33190	21.639	ug/l		99
57) 1,3-Dichloropropane	9.305	76	36368	21.073	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	86646	111.669	ug/l		99
59) 2-Hexanone	9.427	43	135946	107.732	ug/l		98
60) Dibromochloromethane	9.519	129	22822	21.122	ug/l		100
61) 1,2-Dibromoethane	9.610	107	21796	21.725	ug/l		97
64) Tetrachloroethene	9.269	164	17310	20.003	ug/l		96
65) Chlorobenzene	10.080	112	54355	20.753	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	19764	21.736	ug/l		100
67) Ethyl Benzene	10.189	91	97814	20.852	ug/l		97
68) m/p-Xylenes	10.299	106	71200	41.733	ug/l		97
69) o-Xylene	10.640	106	35169	20.926	ug/l		97
70) Styrene	10.653	104	59455	21.434	ug/l		98
71) Bromoform	10.799	173	14381	21.181	ug/l	#	100
73) Isopropylbenzene	10.957	105	96809	20.403	ug/l		98
74) N-amyl acetate	10.842	43	45523	20.057	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	34807	20.882	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	28492m	19.719	ug/l		
77) Bromobenzene	11.195	156	21147	19.289	ug/l		99
78) n-propylbenzene	11.299	91	108978	19.940	ug/l		100
79) 2-Chlorotoluene	11.360	91	69847	19.991	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	80136	20.424	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	7544	17.720	ug/l		93
82) 4-Chlorotoluene	11.451	91	78882	20.249	ug/l		100
83) tert-Butylbenzene	11.713	119	79835	20.552	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	80856	20.532	ug/l		100
85) sec-Butylbenzene	11.890	105	99135	20.778	ug/l		100
86) p-Isopropyltoluene	12.006	119	80992	20.591	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	40055	20.071	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	40055	19.798	ug/l		97
89) n-Butylbenzene	12.329	91	67884	19.902	ug/l		99
90) Hexachloroethane	12.536	117	13846	20.482	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	42151	21.245	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7487	21.478	ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	21510	19.477	ug/l		99
94) Hexachlorobutadiene	13.719	225	10079	21.179	ug/l		98
95) Naphthalene	13.774	128	79412	19.322	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	23277	20.128	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045975.D
Acq On : 29 Apr 2025 12:21
Operator : JC/MD
Sample : VX0429WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 30 01:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

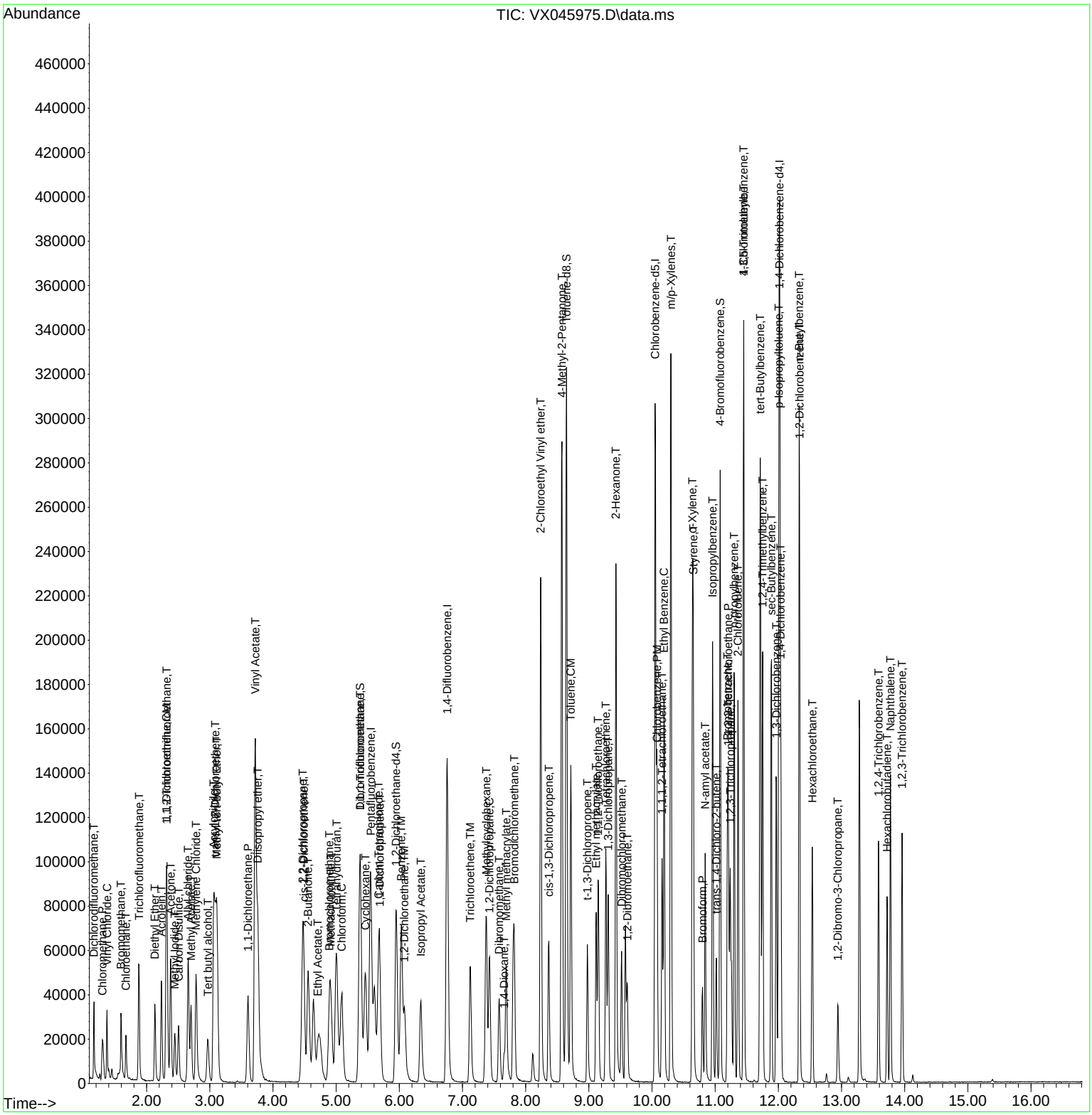
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045975.D
Acq On : 29 Apr 2025 12:21
Operator : JC/MD
Sample : VX0429WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 30 01:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 01:31:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	286487	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	433702	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	405299	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	222589	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	131013	49.509	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.020%			
35) Dibromofluoromethane	7.628	113	150835	52.643	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.280%			
50) Toluene-d8	10.103	98	568923	52.668	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.340%			
62) 4-Bromofluorobenzene	12.402	95	188289	51.779	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	47203	19.336	ug/l	98
3) Chloromethane	2.062	50	77084	22.176	ug/l	98
4) Vinyl Chloride	2.202	62	88437	20.704	ug/l	98
5) Bromomethane	2.586	94	83723	22.751	ug/l	97
6) Chloroethane	2.727	64	61631	21.186	ug/l	100
7) Trichlorofluoromethane	3.050	101	122851	21.811	ug/l	97
8) Diethyl Ether	3.452	74	28746	19.608	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.806	101	62287	20.385	ug/l	99
10) Methyl Iodide	4.001	142	60748	17.172	ug/l	99
11) Tert butyl alcohol	4.885	59	13923	95.838	ug/l #	87
12) 1,1-Dichloroethene	3.787	96	56168	19.722	ug/l	97
13) Acrolein	3.653	56	22527	86.396	ug/l	99
14) Allyl chloride	4.379	41	62659	18.895	ug/l	99
15) Acrylonitrile	5.055	53	51344	95.667	ug/l	99
16) Acetone	3.879	43	37345	94.535	ug/l	95
17) Carbon Disulfide	4.098	76	180355	19.861	ug/l	98
18) Methyl Acetate	4.385	43	25031	20.250	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	121034	18.988	ug/l	100
20) Methylene Chloride	4.610	84	67082	20.048	ug/l	95
21) trans-1,2-Dichloroethene	5.104	96	62226	19.509	ug/l	97
22) Diisopropyl ether	6.013	45	144165	19.535	ug/l	96
23) Vinyl Acetate	5.958	43	381862	96.013	ug/l	99
24) 1,1-Dichloroethane	5.909	63	101810	19.903	ug/l	95
25) 2-Butanone	6.890	43	55933	92.728	ug/l	97
26) 2,2-Dichloropropane	6.878	77	91436	20.394	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	69433	19.469	ug/l	99
28) Bromochloromethane	7.244	49	39832	20.047	ug/l	96
29) Tetrahydrofuran	7.262	42	37976	96.936	ug/l	99
30) Chloroform	7.415	83	115625	20.378	ug/l	99
31) Cyclohexane	7.701	56	82489	18.857	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	103303	20.124	ug/l	99
36) 1,1-Dichloropropene	7.829	75	77745	20.200	ug/l	99
37) Ethyl Acetate	6.982	43	28394	20.541	ug/l	97
38) Carbon Tetrachloride	7.817	117	97877	21.282	ug/l	96
39) Methylcyclohexane	9.103	83	92916	19.184	ug/l	94
40) Benzene	8.079	78	247402	20.563	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 01:31:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	15307	20.257	ug/l	#	94
42) 1,2-Dichloroethane	8.159	62	63278	21.243	ug/l		99
43) Isopropyl Acetate	8.195	43	51820	19.521	ug/l		99
44) Trichloroethene	8.860	130	69720	20.921	ug/l		96
45) 1,2-Dichloropropane	9.140	63	54103	20.334	ug/l		96
46) Dibromomethane	9.225	93	34989	21.008	ug/l		99
47) Bromodichloromethane	9.420	83	87089	20.931	ug/l		96
48) Methyl methacrylate	9.219	41	23285	18.974	ug/l		94
49) 1,4-Dioxane	9.231	88	6982	393.308	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	140074	100.658	ug/l		100
52) Toluene	10.170	92	163564	21.002	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	73442	20.578	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	87328	20.585	ug/l		96
55) 1,1,2-Trichloroethane	10.573	97	46477	20.891	ug/l		98
56) Ethyl methacrylate	10.439	69	47660	18.733	ug/l		97
57) 1,3-Dichloropropane	10.713	76	73654	20.651	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	125085	100.556	ug/l		98
59) 2-Hexanone	10.762	43	91664	99.867	ug/l		98
60) Dibromochloromethane	10.908	129	65090	21.132	ug/l		99
61) 1,2-Dibromoethane	11.012	107	43234	20.584	ug/l		99
64) Tetrachloroethene	10.646	164	80599	21.080	ug/l		96
65) Chlorobenzene	11.438	112	182280	20.111	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.512	131	66284	20.773	ug/l		100
67) Ethyl Benzene	11.518	91	285528	19.258	ug/l		100
68) m/p-Xylenes	11.627	106	239665	40.623	ug/l		97
69) o-Xylene	11.957	106	106876	19.654	ug/l		99
70) Styrene	11.969	104	182708	20.012	ug/l		100
71) Bromoform	12.127	173	38719	20.871	ug/l	#	99
73) Isopropylbenzene	12.255	105	279562	18.799	ug/l		99
74) N-amyl acetate	12.072	43	45327	17.740	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	49468	19.730	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	35538m	18.640	ug/l		
77) Bromobenzene	12.530	156	73867	19.657	ug/l		97
78) n-propylbenzene	12.597	91	342875	19.361	ug/l		100
79) 2-Chlorotoluene	12.676	91	200281	19.446	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	235676	19.234	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	14374	18.155	ug/l		94
82) 4-Chlorotoluene	12.774	91	212735	19.870	ug/l		100
83) tert-Butylbenzene	12.999	119	205879	18.735	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	241750	19.725	ug/l		98
85) sec-Butylbenzene	13.176	105	309315	19.235	ug/l		99
86) p-Isopropyltoluene	13.292	119	260507	19.078	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	152160	19.937	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	148875	19.695	ug/l		99
89) n-Butylbenzene	13.615	91	225950	18.513	ug/l		99
90) Hexachloroethane	13.883	117	58174	19.391	ug/l		98
91) 1,2-Dichlorobenzene	13.658	146	134059	20.139	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7240	18.150	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	72337	19.176	ug/l		99
94) Hexachlorobutadiene	15.023	225	47088	20.289	ug/l		100
95) Naphthalene	15.145	128	109185	17.424	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	64048	19.670	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 01:31:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

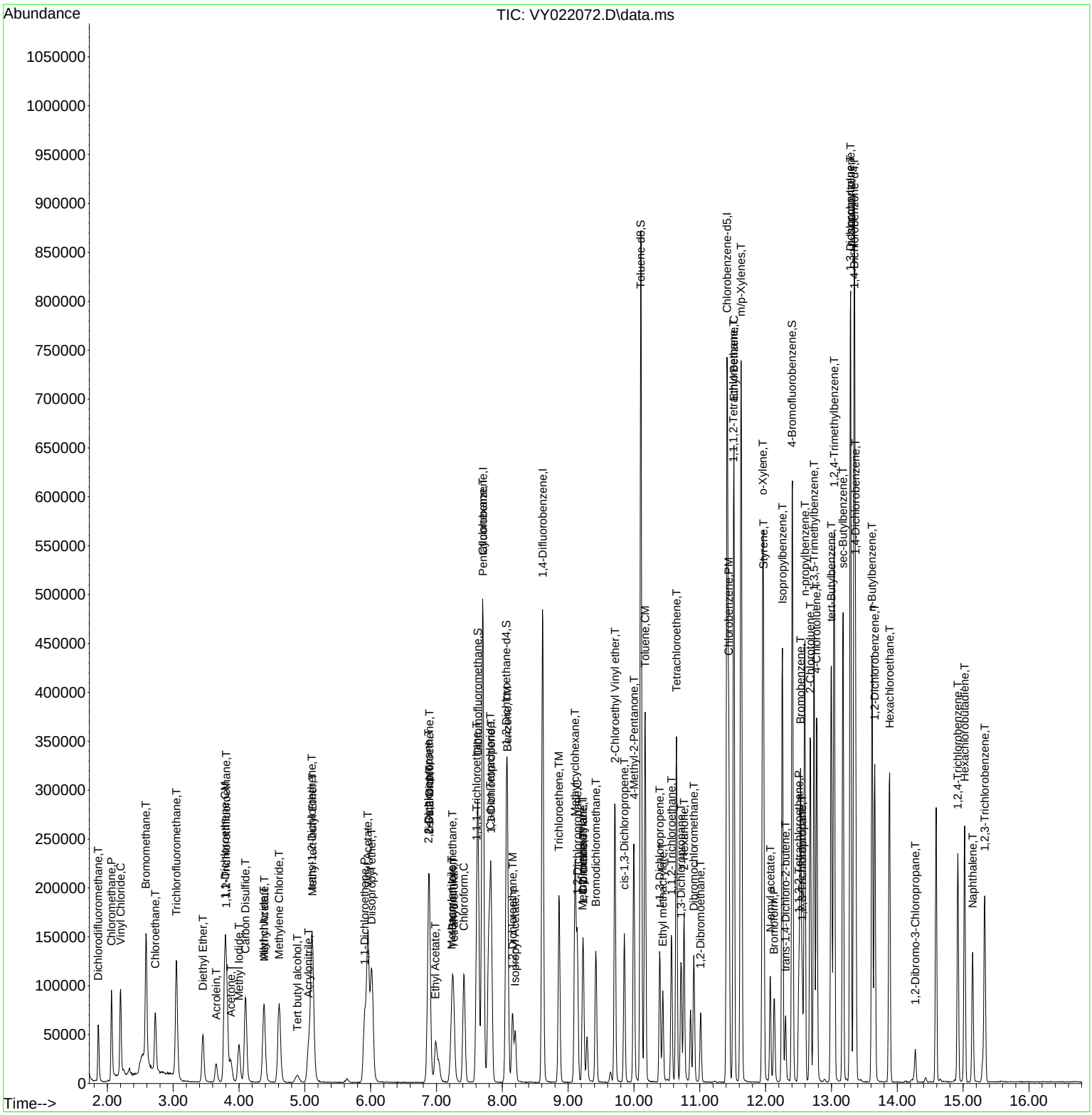
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Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 01:31:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	294485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	452802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	414235	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	225406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	129149	47.479	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.960%			
35) Dibromofluoromethane	7.634	113	148223	49.549	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.100%			
50) Toluene-d8	10.109	98	564747	50.076	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.160%			
62) 4-Bromofluorobenzene	12.408	95	187006	49.257	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	48273	19.238	ug/l	99
3) Chloromethane	2.068	50	66754	18.683	ug/l	99
4) Vinyl Chloride	2.202	62	82174	18.716	ug/l	94
5) Bromomethane	2.592	94	70373	18.604	ug/l	97
6) Chloroethane	2.732	64	56478	18.887	ug/l	99
7) Trichlorofluoromethane	3.056	101	115218	19.900	ug/l	98
8) Diethyl Ether	3.452	74	28039	18.606	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	62306	19.838	ug/l	97
10) Methyl Iodide	4.001	142	67604	18.591	ug/l	100
11) Tert butyl alcohol	4.866	59	12138	81.282	ug/l	98
12) 1,1-Dichloroethene	3.787	96	58265	19.903	ug/l	98
13) Acrolein	3.653	56	17856	66.621	ug/l	97
14) Allyl chloride	4.379	41	63510	18.632	ug/l	97
15) Acrylonitrile	5.055	53	48849	88.546	ug/l	98
16) Acetone	3.866	43	37306	91.214	ug/l	99
17) Carbon Disulfide	4.104	76	182459	19.547	ug/l	98
18) Methyl Acetate	4.379	43	23736	18.681	ug/l	95
19) Methyl tert-butyl Ether	5.116	73	117798	17.978	ug/l	99
20) Methylene Chloride	4.610	84	66341	19.288	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	64503	19.674	ug/l	95
22) Diisopropyl ether	6.012	45	147267	19.413	ug/l	96
23) Vinyl Acetate	5.958	43	372032	91.000	ug/l	99
24) 1,1-Dichloroethane	5.915	63	104275	19.831	ug/l #	96
25) 2-Butanone	6.896	43	53781	86.739	ug/l	98
26) 2,2-Dichloropropane	6.884	77	93707	20.333	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	72723	19.837	ug/l	99
28) Bromochloromethane	7.244	49	38682	18.940	ug/l	97
29) Tetrahydrofuran	7.256	42	34870	86.590	ug/l	99
30) Chloroform	7.421	83	118101	20.249	ug/l	98
31) Cyclohexane	7.701	56	84609	18.817	ug/l #	92
32) 1,1,1-Trichloroethane	7.616	97	106076	20.103	ug/l	99
36) 1,1-Dichloropropene	7.835	75	79939	19.894	ug/l	100
37) Ethyl Acetate	6.982	43	25337	17.556	ug/l	97
38) Carbon Tetrachloride	7.817	117	99102	20.639	ug/l	98
39) Methylcyclohexane	9.109	83	95859	18.956	ug/l	96
40) Benzene	8.079	78	254338	20.248	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	12694	16.090	ug/l	#	84
42) 1,2-Dichloroethane	8.158	62	61949	19.920	ug/l		99
43) Isopropyl Acetate	8.195	43	48886	17.639	ug/l		99
44) Trichloroethene	8.866	130	70695	20.319	ug/l		97
45) 1,2-Dichloropropane	9.140	63	55919	20.131	ug/l		98
46) Dibromomethane	9.231	93	34103	19.612	ug/l		98
47) Bromodichloromethane	9.420	83	89355	20.570	ug/l		97
48) Methyl methacrylate	9.219	41	21714	16.948	ug/l		93
49) 1,4-Dioxane	9.231	88	6896	372.078	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	127974	88.084	ug/l		99
52) Toluene	10.170	92	167187	20.562	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	70469	18.912	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	88193	19.912	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	46804	20.150	ug/l		96
56) Ethyl methacrylate	10.438	69	46419	17.476	ug/l		97
57) 1,3-Dichloropropane	10.719	76	73345	19.697	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	112618	86.715	ug/l		100
59) 2-Hexanone	10.762	43	81146	84.678	ug/l		98
60) Dibromochloromethane	10.908	129	63759	19.827	ug/l		98
61) 1,2-Dibromoethane	11.018	107	43603	19.884	ug/l		96
64) Tetrachloroethene	10.646	164	81769	20.925	ug/l		98
65) Chlorobenzene	11.444	112	183689	19.830	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	65069	19.952	ug/l		97
67) Ethyl Benzene	11.517	91	295862	19.525	ug/l		99
68) m/p-Xylenes	11.627	106	244316	40.518	ug/l		99
69) o-Xylene	11.956	106	109092	19.629	ug/l		99
70) Styrene	11.969	104	187388	20.081	ug/l		99
71) Bromoform	12.133	173	37191	19.615	ug/l	#	98
73) Isopropylbenzene	12.255	105	288742	19.173	ug/l		100
74) N-amyl acetate	12.072	43	41858	16.178	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	46736	18.407	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	35111m	18.186	ug/l		
77) Bromobenzene	12.530	156	73542	19.326	ug/l		98
78) n-propylbenzene	12.597	91	349898	19.510	ug/l		100
79) 2-Chlorotoluene	12.682	91	203324	19.494	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	243534	19.627	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	13702	17.090	ug/l		96
82) 4-Chlorotoluene	12.779	91	211849	19.539	ug/l		98
83) tert-Butylbenzene	12.999	119	211608	19.015	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	242538	19.542	ug/l		98
85) sec-Butylbenzene	13.176	105	316527	19.438	ug/l		99
86) p-Isopropyltoluene	13.292	119	268577	19.423	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	153561	19.869	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	150028	19.600	ug/l		99
89) n-Butylbenzene	13.621	91	230584	18.656	ug/l		99
90) Hexachloroethane	13.877	117	59920	19.723	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	130714	19.391	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7153	17.708	ug/l		89
93) 1,2,4-Trichlorobenzene	14.919	180	72623	19.012	ug/l		99
94) Hexachlorobutadiene	15.023	225	47671	20.283	ug/l		97
95) Naphthalene	15.145	128	104223	16.425	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	61917	18.778	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

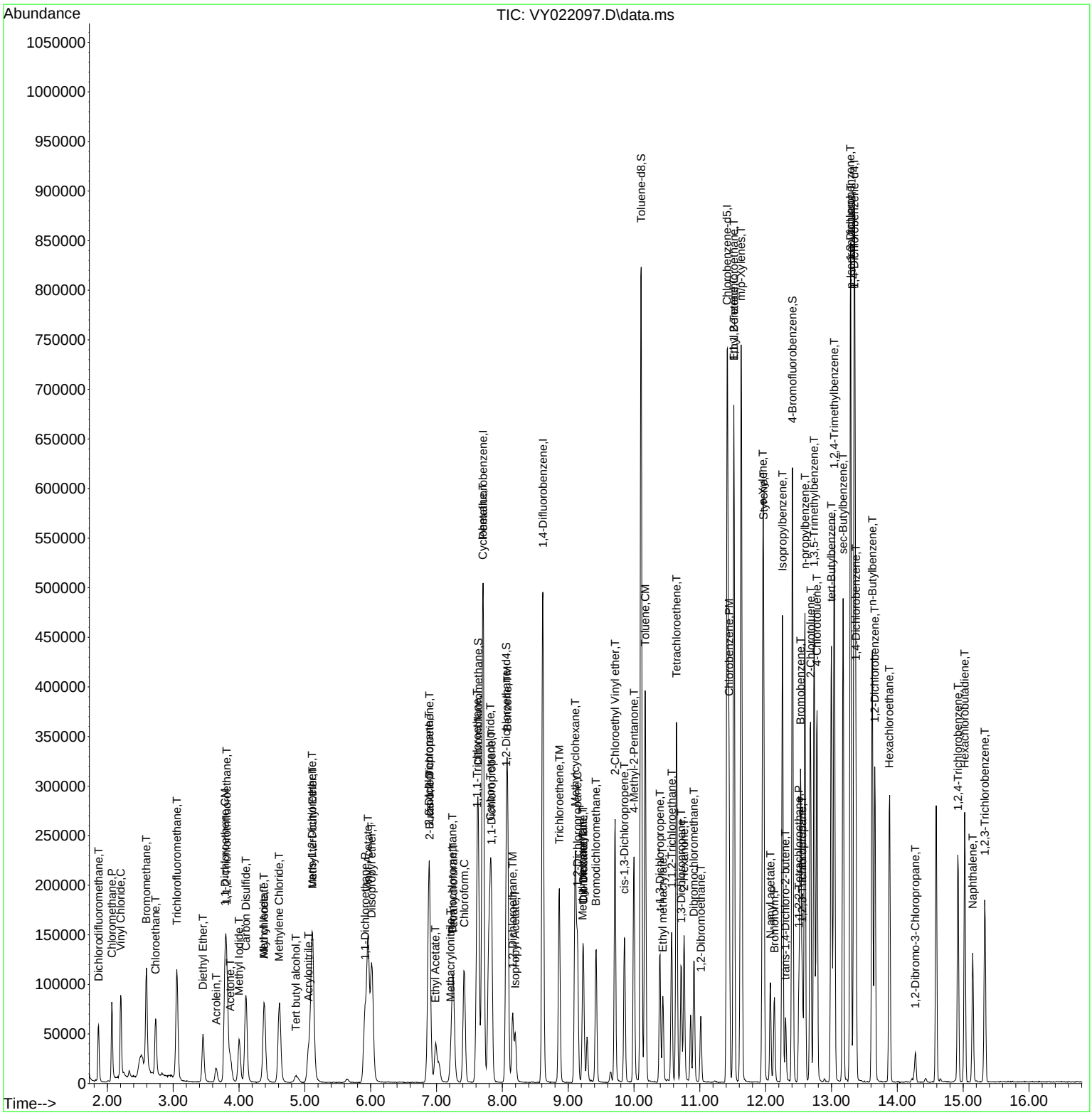
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 30 01:37:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	77095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	135079	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	118384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57470	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	76515	54.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.540%			
35) Dibromofluoromethane	5.379	113	52478	54.757	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.520%			
50) Toluene-d8	8.647	98	172943	51.700	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.400%			
62) 4-Bromofluorobenzene	11.079	95	67496	55.394	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19940	17.295	ug/l	98
3) Chloromethane	1.307	50	19464	16.433	ug/l	97
4) Vinyl Chloride	1.374	62	18281	16.865	ug/l	97
5) Bromomethane	1.593	94	8917	17.349	ug/l	97
6) Chloroethane	1.672	64	10885	18.927	ug/l	98
7) Trichlorofluoromethane	1.880	101	31444	19.453	ug/l	99
8) Diethyl Ether	2.130	74	11373	20.957	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	20162	21.286	ug/l	96
10) Methyl Iodide	2.447	142	21226	17.966	ug/l	95
11) Tert butyl alcohol	2.965	59	21757	114.828	ug/l	100
12) 1,1-Dichloroethene	2.313	96	17753	19.182	ug/l	97
13) Acrolein	2.233	56	29845	114.384	ug/l	99
14) Allyl chloride	2.660	41	34613	19.710	ug/l	100
15) Acrylonitrile	3.062	53	63530	106.219	ug/l	99
16) Acetone	2.380	43	59734	103.180	ug/l	98
17) Carbon Disulfide	2.508	76	30724	13.441	ug/l	98
18) Methyl Acetate	2.703	43	39952	29.973	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	70922	21.905	ug/l	100
20) Methylene Chloride	2.782	84	22066	20.359	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	17617	18.632	ug/l	95
22) Diisopropyl ether	3.757	45	74574	21.558	ug/l	94
23) Vinyl Acetate	3.715	43	306061	102.405	ug/l	99
24) 1,1-Dichloroethane	3.599	63	39043	19.957	ug/l	99
25) 2-Butanone	4.556	43	92556	109.219	ug/l	98
26) 2,2-Dichloropropane	4.465	77	29266	23.154	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	23658	20.537	ug/l	97
28) Bromochloromethane	4.891	49	21694	22.947	ug/l	96
29) Tetrahydrofuran	5.007	42	57573	104.788	ug/l	99
30) Chloroform	5.086	83	43275	21.498	ug/l	97
31) Cyclohexane	5.458	56	31835	18.407	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	35637	20.922	ug/l	99
36) 1,1-Dichloropropene	5.684	75	25072	19.375	ug/l	100
37) Ethyl Acetate	4.708	43	32920	20.187	ug/l	99
38) Carbon Tetrachloride	5.672	117	29700	21.237	ug/l	92
39) Methylcyclohexane	7.373	83	31598	19.921	ug/l	99
40) Benzene	6.031	78	78335	19.821	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 30 01:37:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	19612	22.794	ug/l		98
42) 1,2-Dichloroethane	6.080	62	36209	22.183	ug/l		100
43) Isopropyl Acetate	6.336	43	54185	21.923	ug/l		99
44) Trichloroethene	7.123	130	18371	19.557	ug/l		96
45) 1,2-Dichloropropane	7.421	63	21416	21.719	ug/l		100
46) Dibromomethane	7.580	93	16618	21.954	ug/l		99
47) Bromodichloromethane	7.818	83	32301	21.368	ug/l		97
48) Methyl methacrylate	7.690	41	27818	21.799	ug/l		100
49) 1,4-Dioxane	7.659	88	10150	439.614	ug/l		98
51) 4-Methyl-2-Pentanone	8.568	43	187368	114.356	ug/l		98
52) Toluene	8.714	92	48009	20.076	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	27378	20.260	ug/l		93
54) cis-1,3-Dichloropropene	8.360	75	30230	21.280	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	20571	21.587	ug/l		96
56) Ethyl methacrylate	9.116	69	32392	21.964	ug/l		98
57) 1,3-Dichloropropane	9.305	76	36964	22.275	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	85871	115.101	ug/l		99
59) 2-Hexanone	9.427	43	137555	113.371	ug/l		98
60) Dibromochloromethane	9.519	129	22935	22.077	ug/l		96
61) 1,2-Dibromoethane	9.604	107	21310	22.091	ug/l		99
64) Tetrachloroethene	9.269	164	16478	19.715	ug/l		96
65) Chlorobenzene	10.073	112	54296	21.464	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	19338	22.019	ug/l		100
67) Ethyl Benzene	10.189	91	96091	21.209	ug/l		97
68) m/p-Xylenes	10.299	106	70144	42.567	ug/l		100
69) o-Xylene	10.640	106	34876	21.485	ug/l		100
70) Styrene	10.653	104	58240	21.738	ug/l		99
71) Bromoform	10.799	173	13887	21.177	ug/l	#	96
73) Isopropylbenzene	10.957	105	91610	19.901	ug/l		99
74) N-amyl acetate	10.842	43	45116	20.488	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.207	83	34033	21.045	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	29260m	20.873	ug/l		
77) Bromobenzene	11.195	156	20879	19.630	ug/l		96
78) n-propylbenzene	11.299	91	106699	20.123	ug/l		99
79) 2-Chlorotoluene	11.360	91	66357	19.576	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	79294	20.831	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	7415	17.952	ug/l		93
82) 4-Chlorotoluene	11.451	91	77140	20.411	ug/l		99
83) tert-Butylbenzene	11.713	119	78461	20.819	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	78597	20.572	ug/l		99
85) sec-Butylbenzene	11.890	105	98401	21.258	ug/l		99
86) p-Isopropyltoluene	12.006	119	79322	20.786	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	39159	20.225	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	39249	19.996	ug/l		96
89) n-Butylbenzene	12.329	91	66533	20.105	ug/l		100
90) Hexachloroethane	12.536	117	13828	21.084	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	40899	21.247	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7537	22.286	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	22349	20.858	ug/l		98
94) Hexachlorobutadiene	13.719	225	9997	21.652	ug/l		96
95) Naphthalene	13.774	128	82571	20.708	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	22765	20.290	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 30 01:37:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

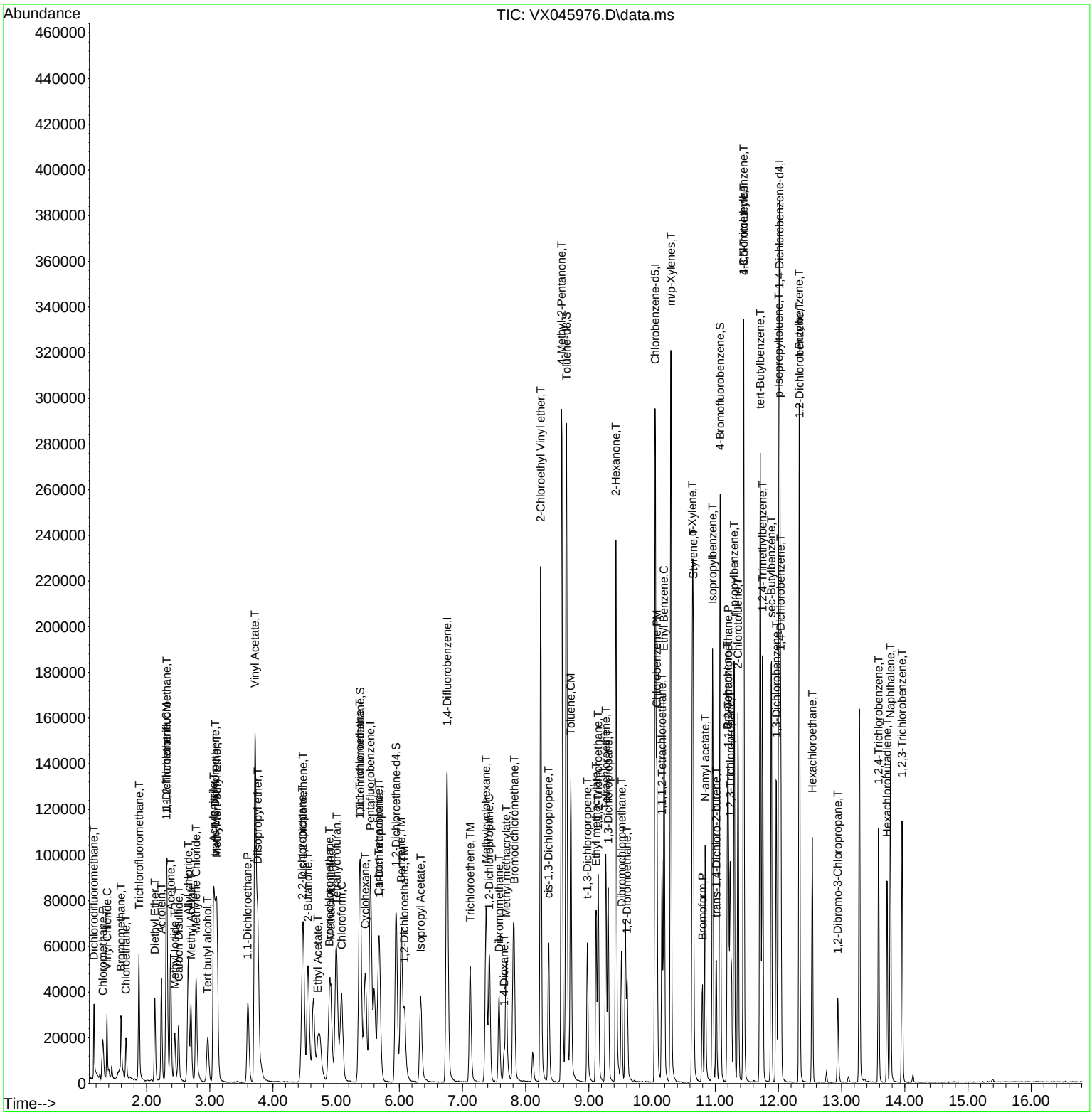
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Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 30 01:37:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 01:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	289313	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	439988	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	406945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	218185	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	130907	48.986	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.980%			
35) Dibromofluoromethane	7.634	113	147653	50.796	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.600%			
50) Toluene-d8	10.103	98	562631	51.341	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.680%			
62) 4-Bromofluorobenzene	12.402	95	187095	50.715	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	49931	20.254	ug/l	99
3) Chloromethane	2.068	50	68325	19.465	ug/l	99
4) Vinyl Chloride	2.202	62	84965	19.697	ug/l	100
5) Bromomethane	2.586	94	72512	19.512	ug/l	94
6) Chloroethane	2.727	64	57263	19.492	ug/l	100
7) Trichlorofluoromethane	3.050	101	116170	20.423	ug/l	97
8) Diethyl Ether	3.452	74	27804	18.780	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	62953	20.402	ug/l	100
10) Methyl Iodide	3.995	142	67087	18.779	ug/l	100
11) Tert butyl alcohol	4.860	59	14050	95.768	ug/l #	70
12) 1,1-Dichloroethene	3.787	96	58062	20.188	ug/l	95
13) Acrolein	3.653	56	22474	85.350	ug/l	98
14) Allyl chloride	4.379	41	63213	18.876	ug/l	98
15) Acrylonitrile	5.055	53	51846	95.658	ug/l	100
16) Acetone	3.873	43	36077	89.420	ug/l	92
17) Carbon Disulfide	4.104	76	180959	19.733	ug/l	99
18) Methyl Acetate	4.385	43	26790	21.461	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	119952	18.634	ug/l	98
20) Methylene Chloride	4.610	84	67948	20.108	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	64406	19.996	ug/l	97
22) Diisopropyl ether	6.019	45	146890	19.710	ug/l	98
23) Vinyl Acetate	5.958	43	371342	92.455	ug/l	99
24) 1,1-Dichloroethane	5.915	63	102207	19.785	ug/l	95
25) 2-Butanone	6.890	43	55654	91.364	ug/l	100
26) 2,2-Dichloropropane	6.884	77	91186	20.140	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	70781	19.653	ug/l	98
28) Bromochloromethane	7.244	49	40106	19.988	ug/l	98
29) Tetrahydrofuran	7.262	42	36921	93.322	ug/l	98
30) Chloroform	7.421	83	115178	20.101	ug/l	98
31) Cyclohexane	7.701	56	83695	18.946	ug/l #	91
32) 1,1,1-Trichloroethane	7.616	97	104622	20.181	ug/l	99
36) 1,1-Dichloropropene	7.829	75	78332	20.062	ug/l	99
37) Ethyl Acetate	6.988	43	27342m	19.497	ug/l	
38) Carbon Tetrachloride	7.817	117	96787	20.744	ug/l	96
39) Methylcyclohexane	9.103	83	93388	19.006	ug/l	94
40) Benzene	8.079	78	250157	20.495	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 01:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	15478	20.191	ug/l	#	95
42) 1,2-Dichloroethane	8.158	62	61936	20.495	ug/l		99
43) Isopropyl Acetate	8.195	43	51000	18.937	ug/l		98
44) Trichloroethene	8.860	130	69297	20.497	ug/l		93
45) 1,2-Dichloropropane	9.140	63	54935	20.352	ug/l		98
46) Dibromomethane	9.231	93	35003	20.716	ug/l		99
47) Bromodichloromethane	9.420	83	87120	20.639	ug/l		99
48) Methyl methacrylate	9.219	41	23107	18.560	ug/l		95
49) 1,4-Dioxane	9.225	88	7458	414.120	ug/l		93
51) 4-Methyl-2-Pentanone	9.994	43	139092	98.525	ug/l		98
52) Toluene	10.170	92	162291	20.541	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	73102	20.190	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	86456	20.088	ug/l		97
55) 1,1,2-Trichloroethane	10.567	97	46575	20.636	ug/l		96
56) Ethyl methacrylate	10.439	69	47773	18.509	ug/l		98
57) 1,3-Dichloropropane	10.713	76	73864	20.414	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	124335	98.525	ug/l		99
59) 2-Hexanone	10.762	43	87825	94.317	ug/l		97
60) Dibromochloromethane	10.908	129	63230	20.235	ug/l		98
61) 1,2-Dibromoethane	11.012	107	42794	20.084	ug/l		98
64) Tetrachloroethene	10.646	164	81751	21.295	ug/l		97
65) Chlorobenzene	11.438	112	184325	20.255	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	66577	20.780	ug/l		99
67) Ethyl Benzene	11.518	91	289472	19.445	ug/l		100
68) m/p-Xylenes	11.627	106	238544	40.269	ug/l		99
69) o-Xylene	11.951	106	105935	19.403	ug/l		99
70) Styrene	11.969	104	185895	20.278	ug/l		98
71) Bromoform	12.133	173	37727	20.254	ug/l	#	99
73) Isopropylbenzene	12.255	105	280709	19.257	ug/l		100
74) N-amyl acetate	12.066	43	44208	17.652	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	47576	19.358	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	33877m	18.127	ug/l		
77) Bromobenzene	12.530	156	73436	19.937	ug/l		98
78) n-propylbenzene	12.591	91	339221	19.541	ug/l		100
79) 2-Chlorotoluene	12.676	91	200769	19.887	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	239215	19.917	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	14890	19.187	ug/l		97
82) 4-Chlorotoluene	12.774	91	212766	20.274	ug/l		100
83) tert-Butylbenzene	12.993	119	209440	19.443	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	238623	19.863	ug/l		98
85) sec-Butylbenzene	13.176	105	313905	19.915	ug/l		100
86) p-Isopropyltoluene	13.292	119	262861	19.639	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	149261	19.952	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	148377	20.026	ug/l		99
89) n-Butylbenzene	13.615	91	223801	18.707	ug/l		99
90) Hexachloroethane	13.877	117	58123	19.765	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	132919	20.371	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7198	18.409	ug/l		92
93) 1,2,4-Trichlorobenzene	14.919	180	69519	18.801	ug/l		97
94) Hexachlorobutadiene	15.023	225	46146	20.284	ug/l		98
95) Naphthalene	15.145	128	103951	16.924	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	60230	18.870	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 01:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

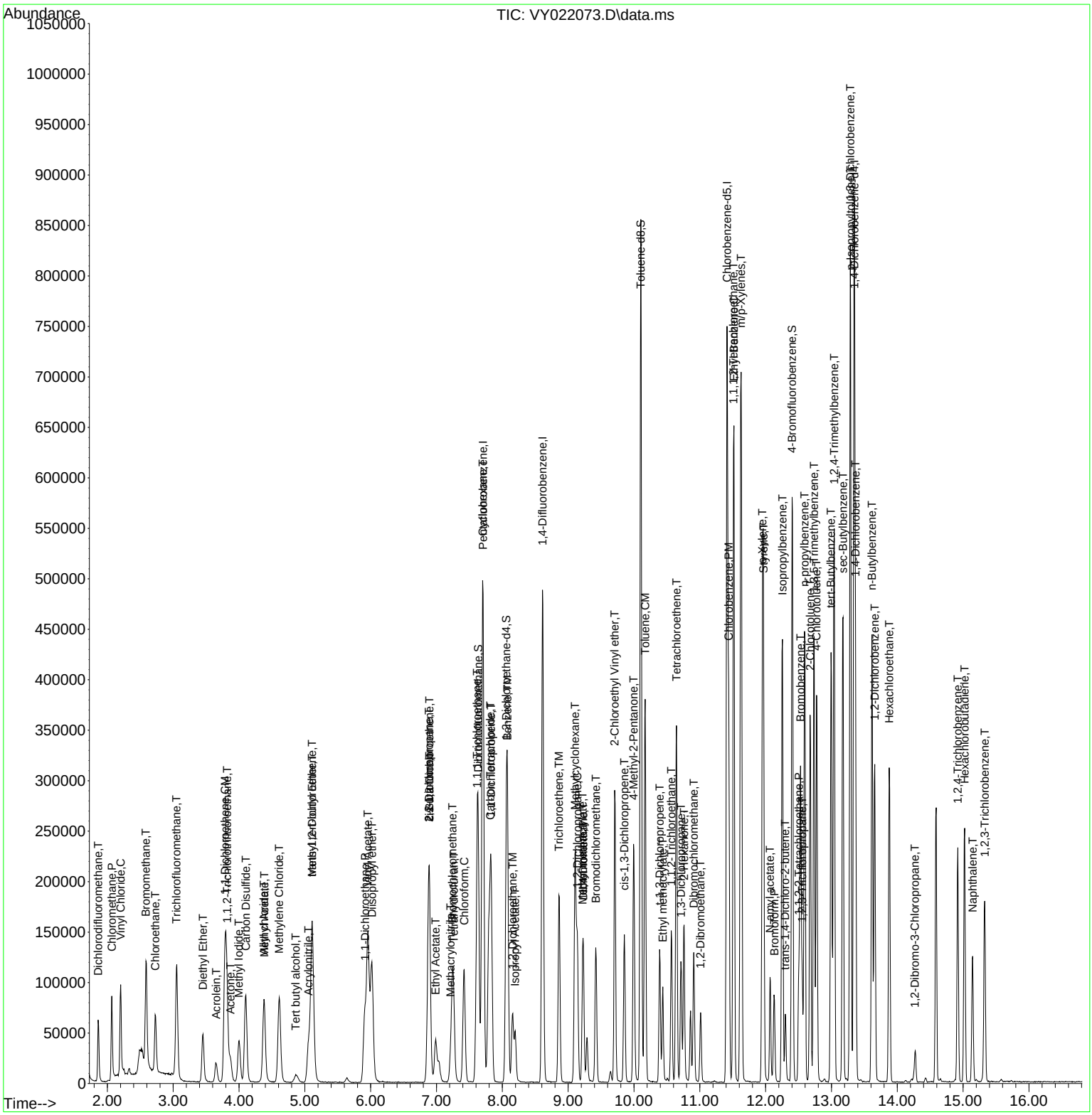
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 01:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025



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

Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VX042925	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045972.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:32:49 AM	Sam	4/30/2025 2:23:15 PM	Peak Integrated by Software
VX0429WBS01	VX045975.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:32:53 AM	Sam	4/30/2025 2:23:17 PM	Peak Integrated by Software
VX0429WBSD01	VX045976.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:32:57 AM	Sam	4/30/2025 2:23:20 PM	Peak Integrated by Software
VSTDCCC050	VX045983.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:33:01 AM	Sam	4/30/2025 2:23:25 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021953.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Ethyl Acetate	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Methacrylonitrile	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Tert butyl alcohol	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Ethyl Acetate	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Methacrylonitrile	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC020	VY021955.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICC020	VY021955.D	Methacrylonitrile	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICCC050	VY021956.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:53 AM	MMDadoda	4/23/2025 1:29:11 PM	Peak Integrated by Software
VSTDICC100	VY021957.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:56 AM	MMDadoda	4/23/2025 1:29:15 PM	Peak Integrated by Software
VSTDICC150	VY021958.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:57 AM	MMDadoda	4/23/2025 1:29:19 PM	Peak Integrated by Software
VSTDICV050	VY021960.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:59 AM	MMDadoda	4/23/2025 1:29:23 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VY043025	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022070.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:25 AM	MMDadoda	5/5/2025 2:54:38 PM	Peak Integrated by Software
VY0430SBS01	VY022072.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:30 AM	MMDadoda	5/5/2025 2:54:41 PM	Peak Integrated by Software
VY0430SBSD01	VY022073.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:37 AM	MMDadoda	5/5/2025 2:54:44 PM	Peak Integrated by Software
VY0430SBSD01	VY022073.D	Ethyl Acetate	sam	5/5/2025 4:23:37 AM	MMDadoda	5/5/2025 2:54:44 PM	Peak Integrated by Software
VSTDCCC050	VY022093.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:47 AM	MMDadoda	5/5/2025 2:54:48 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy050125	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022095.D	1,2,3-Trichloropropane	Sam	5/5/2025 2:51:05 PM	MMDadoda	5/5/2025 2:57:20 PM	Peak Integrated by Software
VY0501SBS01	VY022097.D	1,2,3-Trichloropropane	sam	5/5/2025 4:29:49 AM	MMDadoda	5/5/2025 2:57:21 PM	Peak Integrated by Software
VSTDCCC050	VY022117.D	1,2,3-Trichloropropane	sam	5/5/2025 4:30:16 AM	MMDadoda	5/5/2025 2:57:56 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX042925

Review By	John Carlone	Review On	4/30/2025 9:47:21 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/30/2025 2:23:33 PM		
SubDirectory	VX042925	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133784
Initial Calibration Stds	
CCC	VP133785,VP133786
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045971.D	29 Apr 2025 09:35	JC/MD	Ok
2	VSTDCCC050	VX045972.D	29 Apr 2025 11:06	JC/MD	Ok,M
3	VX0429MBL01	VX045973.D	29 Apr 2025 11:35	JC/MD	Ok
4	VX0429WBL01	VX045974.D	29 Apr 2025 11:58	JC/MD	Ok
5	VX0429WBS01	VX045975.D	29 Apr 2025 12:21	JC/MD	Ok,M
6	VX0429WBSD01	VX045976.D	29 Apr 2025 12:49	JC/MD	Ok,M
7	IBLK	VX045977.D	29 Apr 2025 13:12	JC/MD	Ok
8	Q1901-07	VX045978.D	29 Apr 2025 13:35	JC/MD	Ok
9	Q1901-06	VX045979.D	29 Apr 2025 13:58	JC/MD	Ok
10	Q1896-03	VX045980.D	29 Apr 2025 14:21	JC/MD	Ok
11	IBLK	VX045981.D	29 Apr 2025 14:45	JC/MD	Ok
12	IBLK	VX045982.D	29 Apr 2025 15:08	JC/MD	Ok
13	VSTDCCC050	VX045983.D	29 Apr 2025 16:15	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM				
Supervise By	Mahesh Dadoda	Supervise On	4/23/2025 1:28:52 PM				
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133718
Initial Calibration Stds	VP133719,VP133720,VP133721,VP133722,VP133723,VP133724
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133725
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021952.D	22 Apr 2025 11:33	SY/MD	Ok
2	VSTDICC005	VY021953.D	22 Apr 2025 13:39	SY/MD	Ok,M
3	VSTDICC010	VY021954.D	22 Apr 2025 14:44	SY/MD	Ok,M
4	VSTDICC020	VY021955.D	22 Apr 2025 15:07	SY/MD	Ok,M
5	VSTDICCC050	VY021956.D	22 Apr 2025 15:29	SY/MD	Ok,M
6	VSTDICC100	VY021957.D	22 Apr 2025 15:52	SY/MD	Ok,M
7	VSTDICC150	VY021958.D	22 Apr 2025 16:15	SY/MD	Ok,M
8	IBLK	VY021959.D	22 Apr 2025 16:38	SY/MD	Ok
9	VSTDICV050	VY021960.D	22 Apr 2025 17:01	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:11 PM				
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133787
Initial Calibration Stds	
CCC	VP133788,VP133789
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022069.D	30 Apr 2025 08:50	SY/MD	Ok
2	VSTDCCC050	VY022070.D	30 Apr 2025 09:20	SY/MD	Ok,M
3	VY0430SBL01	VY022071.D	30 Apr 2025 09:57	SY/MD	Ok
4	VY0430SBS01	VY022072.D	30 Apr 2025 10:30	SY/MD	Ok,M
5	VY0430SBSD01	VY022073.D	30 Apr 2025 10:52	SY/MD	Ok,M
6	Q1911-01	VY022074.D	30 Apr 2025 11:37	SY/MD	ReRun
7	Q1905-07	VY022075.D	30 Apr 2025 12:00	SY/MD	Ok
8	Q1910-01	VY022076.D	30 Apr 2025 12:24	SY/MD	Ok
9	Q1912-03	VY022077.D	30 Apr 2025 12:47	SY/MD	Ok
10	Q1912-07	VY022078.D	30 Apr 2025 13:11	SY/MD	Ok
11	Q1883-05	VY022079.D	30 Apr 2025 13:34	SY/MD	Ok
12	Q1883-07	VY022080.D	30 Apr 2025 13:58	SY/MD	Ok
13	Q1883-09	VY022081.D	30 Apr 2025 14:21	SY/MD	Ok
14	Q1883-11	VY022082.D	30 Apr 2025 14:44	SY/MD	ReRun
15	Q1883-13	VY022083.D	30 Apr 2025 15:11	SY/MD	Not Ok
16	Q1883-15	VY022084.D	30 Apr 2025 15:55	SY/MD	Ok
17	Q1907-01	VY022085.D	30 Apr 2025 16:18	SY/MD	Ok
18	Q1883-11	VY022086.D	30 Apr 2025 16:42	SY/MD	Ok
19	Q1901-02	VY022087.D	30 Apr 2025 17:05	SY/MD	Ok
20	Q1883-13	VY022088.D	30 Apr 2025 17:29	SY/MD	Ok
21	Q1901-04	VY022089.D	30 Apr 2025 17:52	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:11 PM				
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133787
Initial Calibration Stds	
CCC	VP133788,VP133789
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1901-05	VY022090.D	30 Apr 2025 18:16	SY/MD	Ok
23	Q1916-03	VY022091.D	30 Apr 2025 18:39	SY/MD	ReRun
24	Q1917-03	VY022092.D	30 Apr 2025 19:03	SY/MD	Ok
25	VSTDCCC050	VY022093.D	30 Apr 2025 19:25	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM				
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022094.D	01 May 2025 08:20	SY/MD	Ok
2	VSTDCCC050	VY022095.D	01 May 2025 08:50	SY/MD	Ok,M
3	VY0501SBL01	VY022096.D	01 May 2025 10:11	SY/MD	Ok
4	VY0501SBS01	VY022097.D	01 May 2025 10:42	SY/MD	Ok,M
5	VY0501SBSD01	VY022098.D	01 May 2025 11:04	SY/MD	Ok,M
6	Q1920-01	VY022099.D	01 May 2025 11:54	SY/MD	Ok
7	Q1911-01RE	VY022100.D	01 May 2025 12:17	SY/MD	Confirms
8	Q1916-03	VY022101.D	01 May 2025 12:41	SY/MD	Ok
9	Q1923-01	VY022102.D	01 May 2025 13:04	SY/MD	ReRun
10	Q1922-03	VY022103.D	01 May 2025 13:28	SY/MD	Ok
11	Q1922-07	VY022104.D	01 May 2025 13:51	SY/MD	Ok
12	Q1901-01	VY022105.D	01 May 2025 14:15	SY/MD	Ok
13	Q1901-03	VY022106.D	01 May 2025 14:38	SY/MD	Ok
14	Q1914-01	VY022107.D	01 May 2025 15:02	SY/MD	Ok
15	Q1914-02	VY022108.D	01 May 2025 15:28	SY/MD	Ok
16	Q1914-03	VY022109.D	01 May 2025 16:04	SY/MD	Ok
17	Q1914-04	VY022110.D	01 May 2025 16:27	SY/MD	Ok
18	Q1914-05	VY022111.D	01 May 2025 16:49	SY/MD	Ok
19	Q1914-06	VY022112.D	01 May 2025 17:16	SY/MD	Dilution
20	Q1914-07	VY022113.D	01 May 2025 17:37	SY/MD	Dilution
21	Q1914-09	VY022114.D	01 May 2025 18:00	SY/MD	Dilution

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM				
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1914-10MS	VY022115.D	01 May 2025 18:23	SY/MD	Ok
23	Q1914-11MSD	VY022116.D	01 May 2025 18:46	SY/MD	Ok,M
24	VSTDCCC050	VY022117.D	01 May 2025 19:08	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER-	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER-	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX042925

Review By	John Carlone	Review On	4/30/2025 9:47:21 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/30/2025 2:23:33 PM		
SubDirectory	VX042925	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133784
Initial Calibration Stds	
CCC	VP133785,VP133786
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045971.D	29 Apr 2025 09:35		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045972.D	29 Apr 2025 11:06	pH#Lot#V12668	JC/MD	Ok,M
3	VX0429MBL01	VX0429MBL01	VX045973.D	29 Apr 2025 11:35		JC/MD	Ok
4	VX0429WBL01	VX0429WBL01	VX045974.D	29 Apr 2025 11:58		JC/MD	Ok
5	VX0429WBS01	VX0429WBS01	VX045975.D	29 Apr 2025 12:21		JC/MD	Ok,M
6	VX0429WBSD01	VX0429WBSD01	VX045976.D	29 Apr 2025 12:49		JC/MD	Ok,M
7	IBLK	IBLK	VX045977.D	29 Apr 2025 13:12		JC/MD	Ok
8	Q1901-07	TB04262025	VX045978.D	29 Apr 2025 13:35	vial A pH<2 TB	JC/MD	Ok
9	Q1901-06	FB04262025	VX045979.D	29 Apr 2025 13:58	vial A pH<2 FB	JC/MD	Ok
10	Q1896-03	295-BERGEN-FRAC	VX045980.D	29 Apr 2025 14:21	vial A pH<2	JC/MD	Ok
11	IBLK	IBLK	VX045981.D	29 Apr 2025 14:45		JC/MD	Ok
12	IBLK	IBLK	VX045982.D	29 Apr 2025 15:08		JC/MD	Ok
13	VSTDCCC050	VSTDCCC050EC	VX045983.D	29 Apr 2025 16:15		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/23/2025 1:28:52 PM		
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133718
Initial Calibration Stds	VP133719,VP133720,VP133721,VP133722,VP133723,VP133724
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133725
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021952.D	22 Apr 2025 11:33		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021953.D	22 Apr 2025 13:39		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021954.D	22 Apr 2025 14:44	Com.#16 is on Linear Regression	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021955.D	22 Apr 2025 15:07		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021956.D	22 Apr 2025 15:29		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021957.D	22 Apr 2025 15:52		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021958.D	22 Apr 2025 16:15		SY/MD	Ok,M
8	IBLK	IBLK	VY021959.D	22 Apr 2025 16:38		SY/MD	Ok
9	VSTDICV050	ICVVY042225	VY021960.D	22 Apr 2025 17:01		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:11 PM		
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133787
Initial Calibration Stds	
CCC	VP133788,VP133789
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022069.D	30 Apr 2025 08:50		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022070.D	30 Apr 2025 09:20		SY/MD	Ok,M
3	VY0430SBL01	VY0430SBL01	VY022071.D	30 Apr 2025 09:57		SY/MD	Ok
4	VY0430SBS01	VY0430SBS01	VY022072.D	30 Apr 2025 10:30		SY/MD	Ok,M
5	VY0430SBSD01	VY0430SBSD01	VY022073.D	30 Apr 2025 10:52		SY/MD	Ok,M
6	Q1911-01	EO-03-04292025	VY022074.D	30 Apr 2025 11:37	vial-A Internal Standard Fail	SY/MD	ReRun
7	Q1905-07	MH-H-VOC	VY022075.D	30 Apr 2025 12:00	vial-A	SY/MD	Ok
8	Q1910-01	MOO-25-0123-27	VY022076.D	30 Apr 2025 12:24	vial-A	SY/MD	Ok
9	Q1912-03	MH-E-VOC	VY022077.D	30 Apr 2025 12:47	vial-A	SY/MD	Ok
10	Q1912-07	MH-F-VOC	VY022078.D	30 Apr 2025 13:11	vial-A	SY/MD	Ok
11	Q1883-05	OU4-PCS-TC-29-04232	VY022079.D	30 Apr 2025 13:34	vial-B	SY/MD	Ok
12	Q1883-07	OU4-PCS-TC-30-04232	VY022080.D	30 Apr 2025 13:58	vial-B	SY/MD	Ok
13	Q1883-09	OU4-PCS-TC-31-04232	VY022081.D	30 Apr 2025 14:21	vial-B	SY/MD	Ok
14	Q1883-11	OU4-PCS-TC-32-04232	VY022082.D	30 Apr 2025 14:44	Internal Standard Fail; Surrogate fail	SY/MD	ReRun
15	Q1883-13	OU4-VSL-18-042325	VY022083.D	30 Apr 2025 15:11	NOT PURGE	SY/MD	Not Ok
16	Q1883-15	OU4-VSL-19-042325	VY022084.D	30 Apr 2025 15:55	vial-B	SY/MD	Ok
17	Q1907-01	CO-8R-WC	VY022085.D	30 Apr 2025 16:18	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:11 PM		
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133787
Initial Calibration Stds	
CCC	VP133788,VP133789
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1883-11	OU4-PCS-TC-32-04232	VY022086.D	30 Apr 2025 16:42	vial-B	SY/MD	Ok
19	Q1901-02	B-167-SB01	VY022087.D	30 Apr 2025 17:05	vial-A	SY/MD	Ok
20	Q1883-13	OU4-VSL-18-042325	VY022088.D	30 Apr 2025 17:29	vial-B	SY/MD	Ok
21	Q1901-04	B-167-SB02	VY022089.D	30 Apr 2025 17:52	vial-A	SY/MD	Ok
22	Q1901-05	B-170-SB02	VY022090.D	30 Apr 2025 18:16	vial-A	SY/MD	Ok
23	Q1916-03	WC-12-VOC	VY022091.D	30 Apr 2025 18:39	vial-A Internal Standard Fail	SY/MD	ReRun
24	Q1917-03	MH-JJ-VOC	VY022092.D	30 Apr 2025 19:03	vial-A	SY/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VY022093.D	30 Apr 2025 19:25		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM		
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022094.D	01 May 2025 08:20		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022095.D	01 May 2025 08:50		SY/MD	Ok,M
3	VY0501SBL01	VY0501SBL01	VY022096.D	01 May 2025 10:11		SY/MD	Ok
4	VY0501SBS01	VY0501SBS01	VY022097.D	01 May 2025 10:42		SY/MD	Ok,M
5	VY0501SBSD01	VY0501SBSD01	VY022098.D	01 May 2025 11:04		SY/MD	Ok,M
6	Q1920-01	291	VY022099.D	01 May 2025 11:54	vial-A	SY/MD	Ok
7	Q1911-01RE	EO-03-04292025RE	VY022100.D	01 May 2025 12:17	vial-B Internal Standard Fail	SY/MD	Confirms
8	Q1916-03	WC-12-VOC	VY022101.D	01 May 2025 12:41	vial-B	SY/MD	Ok
9	Q1923-01	TR-05-04302025	VY022102.D	01 May 2025 13:04	vial-A Internal Standard Fail	SY/MD	ReRun
10	Q1922-03	MH-R-VOC	VY022103.D	01 May 2025 13:28	vial-A	SY/MD	Ok
11	Q1922-07	MH-2-VOC	VY022104.D	01 May 2025 13:51	vial-A	SY/MD	Ok
12	Q1901-01	B-170-SB00	VY022105.D	01 May 2025 14:15	vial-A	SY/MD	Ok
13	Q1901-03	B-170-SB01	VY022106.D	01 May 2025 14:38	vial-A	SY/MD	Ok
14	Q1914-01	SS-1	VY022107.D	01 May 2025 15:02	vial-A	SY/MD	Ok
15	Q1914-02	SS-91	VY022108.D	01 May 2025 15:28	vial-A	SY/MD	Ok
16	Q1914-03	SS-2	VY022109.D	01 May 2025 16:04	vial-A	SY/MD	Ok
17	Q1914-04	SS-3	VY022110.D	01 May 2025 16:27	vial-A	SY/MD	Ok
18	Q1914-05	SS-4	VY022111.D	01 May 2025 16:49	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM		
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1914-06	SS-5	VY022112.D	01 May 2025 17:16	vial-A Need MeoH	SY/MD	Dilution
20	Q1914-07	SS-6	VY022113.D	01 May 2025 17:37	vial-A Internal Standard Fail;Need MeOH	SY/MD	Dilution
21	Q1914-09	SS-8	VY022114.D	01 May 2025 18:00	vial-A Internal Standard Fail; Surrogate Fail;Need MeOH	SY/MD	Dilution
22	Q1914-10MS	SS-8MS	VY022115.D	01 May 2025 18:23	vial-A Surrogate fail	SY/MD	Ok
23	Q1914-11MSD	SS-8MSD	VY022116.D	01 May 2025 18:46	vial-A Surrogate faill	SY/MD	Ok,M
24	VSTDCCC050	VSTDCCC050EC	VY022117.D	01 May 2025 19:08		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-01	**B-170-SB00**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
			VOC-TCLVOA-10	8260D			05/01/25	
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
			VOC-TCLVOA-10	8260D			05/01/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260-Low			04/29/25	
Q1901-07	**TB04262025**	**Water**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260-Low			04/29/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**

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LAB CHRONICLE

TCLP VOA	8260D	04/30/25

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**B-167-SB01**							
Q1901-08	B-167-SB01	TCLP	2-Butanone	39.6		0.98	25.0	ug/L
			Total Voc :	39.6				
			Total Concentration:	39.6				
Client ID:	**B-170-SB01**							
Q1901-09	B-170-SB01	TCLP	2-Butanone	36.5		0.98	25.0	ug/L
			Total Voc :	36.5				
			Total Concentration:	36.5				
Client ID:	**B-167-SB02**							
Q1901-10	B-167-SB02	TCLP	2-Butanone	46.0		0.98	25.0	ug/L
			Total Voc :	46.0				
			Total Concentration:	46.0				
Client ID:	**B-170-SB02**							
Q1901-11	B-170-SB02	TCLP	2-Butanone	36.6		0.98	25.0	ug/L
			Total Voc :	36.6				
			Total Concentration:	36.6				

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045996.D	1		04/30/25 14:29	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	39.6		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.6		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	57600	5.544			
540-36-3	1,4-Difluorobenzene	115000	6.757			
3114-55-4	Chlorobenzene-d5	106000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	41300	12.018			

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

Raw Data: **VX045993.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045993.D	1		04/30/25 13:19	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	36.5		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.4		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62700	5.544			
540-36-3	1,4-Difluorobenzene	126000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	50900	12.018			

U = Not Detected
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LOD = Limit of Detection
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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

Raw Data: **VX045994.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045994.D	1		04/30/25 13:42	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	46.0		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	52.5		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.5		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59700	5.55			
540-36-3	1,4-Difluorobenzene	119000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	51100	12.018			

U = Not Detected
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LOD = Limit of Detection
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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

Raw Data: **VX046010.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046010.D	1		04/30/25 19:57	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	36.6		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.4		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65000	5.544			
540-36-3	1,4-Difluorobenzene	128000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51900	12.018			

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

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1901-08	B-167-SB01	1,2-Dichloroethane-d4	50	56.6	113	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98	70 (77)	130 (121)
Q1901-09	B-170-SB01	1,2-Dichloroethane-d4	50	55.8	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.8	106	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.9	106	70 (77)	130 (121)
Q1901-10	B-167-SB02	1,2-Dichloroethane-d4	50	56.4	113	70 (74)	130 (125)
		Dibromofluoromethane	50	53.3	107	70 (75)	130 (124)
		Toluene-d8	50	52.5	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.5	111	70 (77)	130 (121)
Q1901-11	B-170-SB02	1,2-Dichloroethane-d4	50	54.4	109	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	50.6	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.8	108	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0430WBL01	VX0430WBL01	1,2-Dichloroethane-d4	50	56.3	113	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
VX0430WBS01	VX0430WBS01	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	56.5	113	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.7	111	70 (77)	130 (121)
VX0430WBSD0	VX0430WBSD01	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	56.5	113	70 (75)	130 (124)
		Toluene-d8	50	52.0	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.5	113	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0430WBS01	Vinyl chloride	20	17.3	ug/L	86			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	21.8	ug/L	109			70 (77)	130 (113)	
	Chloroform	20	21.6	ug/L	108			70 (79)	130 (113)	
	Benzene	20	20.2	ug/L	101			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.8	ug/L	114			70 (80)	130 (115)	
	Trichloroethene	20	19.9	ug/L	100			70 (77)	130 (113)	
	Tetrachloroethene	20	19.0	ug/L	95			70 (67)	130 (123)	
	Chlorobenzene	20	21.3	ug/L	106			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0430WBSD01	Vinyl chloride	20	16.6	ug/L	83	4		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	18.5	ug/L	93	0		70 (74)	130 (110)	20 (20)
	2-Butanone	100	120	ug/L	120	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.8	ug/L	109	0		70 (77)	130 (113)	20 (20)
	Chloroform	20	21.0	ug/L	105	3		70 (79)	130 (113)	20 (20)
	Benzene	20	20.1	ug/L	101	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.6	ug/L	113	1		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.2	ug/L	101	1		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	20.1	ug/L	101	6		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.8	ug/L	104	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0430WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045987.D Lab Sample ID: VX0430WBL01

Date Analyzed: 04/30/2025 Time Analyzed: 10:55

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0430WBS01	VX0430WBS01	VX045988.D	04/30/2025
VX0430WBSD01	VX0430WBSD01	VX045989.D	04/30/2025
B-170-SB01	Q1901-09	VX045993.D	04/30/2025
B-167-SB02	Q1901-10	VX045994.D	04/30/2025
B-167-SB01	Q1901-08	VX045996.D	04/30/2025
B-170-SB02	Q1901-11	VX046010.D	04/30/2025

COMMENTS:

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045984.D BFB Injection Date: 04/30/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:32

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	67.1 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VX045985.D	04/30/2025	10:01
VX0430WBL01	VX0430WBL01	VX045987.D	04/30/2025	10:55
VX0430WBS01	VX0430WBS01	VX045988.D	04/30/2025	11:19
VX0430WBSD01	VX0430WBSD01	VX045989.D	04/30/2025	11:46
B-170-SB01	Q1901-09	VX045993.D	04/30/2025	13:19
B-167-SB02	Q1901-10	VX045994.D	04/30/2025	13:42
B-167-SB01	Q1901-08	VX045996.D	04/30/2025	14:29
B-170-SB02	Q1901-11	VX046010.D	04/30/2025	19:57

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045985.D Date Analyzed: 04/30/2025

Instrument ID: MSVOA_X Time Analyzed: 10:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	83019	5.55	141256	6.75	122754	10.05
UPPER LIMIT	166038	6.049	282512	7.25	245508	10.549
LOWER LIMIT	41509.5	5.049	70628	6.25	61377	9.549
EPA SAMPLE NO.						
B-167-SB01	57618	5.54	115466	6.76	105991	10.06
B-170-SB01	62684	5.54	125601	6.76	119798	10.05
B-167-SB02	59744	5.55	118644	6.76	115892	10.06
B-170-SB02	64982	5.54	127775	6.76	119826	10.05
VX0430WBL01	62274	5.54	125239	6.76	116463	10.05
VX0430WBS01	79591	5.54	138531	6.76	123154	10.05
VX0430WBSD01	77091	5.54	132529	6.76	119517	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045985.D Date Analyzed: 04/30/2025

Instrument ID: MSVOA_X Time Analyzed: 10:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60558	12.018				
UPPER LIMIT	121116	12.518				
LOWER LIMIT	30279	11.518				
EPA SAMPLE NO.						
B-167-SB01	41285	12.02				
B-170-SB01	50854	12.02				
B-167-SB02	51062	12.02				
B-170-SB02	51937	12.02				
VX0430WBL01	49781	12.02				
VX0430WBS01	58135	12.02				
VX0430WBSD01	57970	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0430WBL01	SDG No.:	Q1901
Lab Sample ID:	VX0430WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045987.D	1		04/30/25 10:55	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.3		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62300	5.544			
540-36-3	1,4-Difluorobenzene	125000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49800	12.018			

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

Raw Data: **VX045988.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0430WBS01	SDG No.:	Q1901
Lab Sample ID:	VX0430WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045988.D	1		04/30/25 11:19	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	1.00	ug/L
67-66-3	Chloroform	21.6		0.25	1.00	ug/L
71-43-2	Benzene	20.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.5		70 (75) - 130 (124)	113%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	79600	5.544			
540-36-3	1,4-Difluorobenzene	139000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58100	12.018			

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

Raw Data: **VX045989.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0430WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0430WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045989.D	1		04/30/25 11:46	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.6		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
78-93-3	2-Butanone	120		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	1.00	ug/L
67-66-3	Chloroform	21.0		0.25	1.00	ug/L
71-43-2	Benzene	20.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.8		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.5		70 (75) - 130 (124)	113%	SPK: 50
2037-26-5	Toluene-d8	52.0		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77100	5.544			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58000	12.018			

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date/Time: 04/30/2025 10:01

Lab File ID: VX045985.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.712		1.28	20
1,1-Dichloroethene	0.600	0.646		7.67	20
2-Butanone	0.550	0.628		14.18	20
Carbon Tetrachloride	0.518	0.632		22.01	20
Chloroform	1.306	1.474		12.86	20
Benzene	1.463	1.629		11.35	20
1,2-Dichloroethane	0.604	0.716		18.54	20
Trichloroethene	0.348	0.381		9.48	20
Tetrachloroethene	0.353	0.398		12.75	20
Chlorobenzene	1.068	1.246	0.3	16.67	20
1,2-Dichloroethane-d4	0.914	0.976		6.78	20
Dibromofluoromethane	0.355	0.405		14.09	20
Toluene-d8	1.238	1.287		3.96	20
4-Bromofluorobenzene	0.451	0.514		13.97	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045996.D
Acq On : 30 Apr 2025 14:29
Operator : JC/MD
Sample : Q1901-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Quant Time: May 01 03:37:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

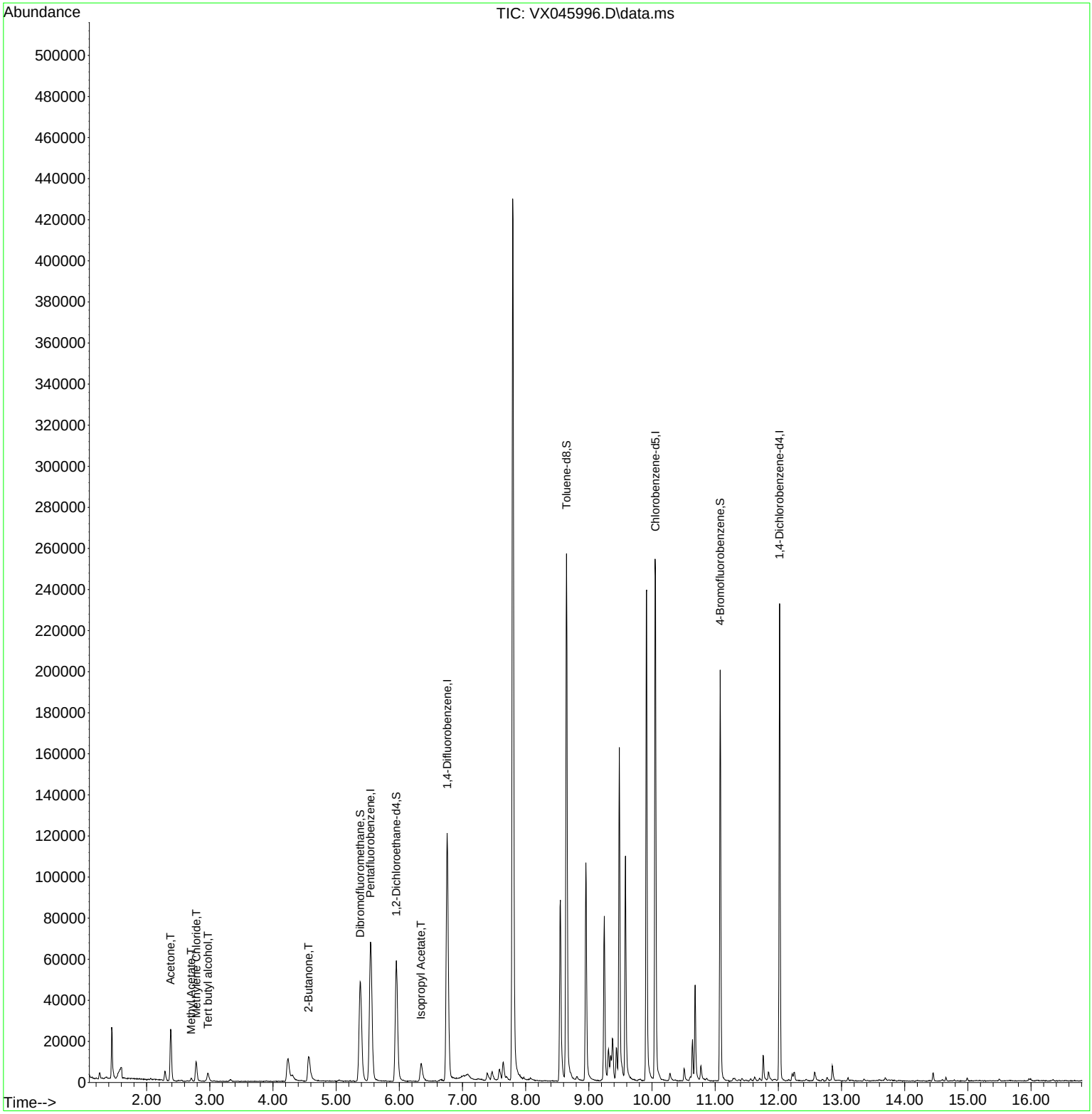
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	57618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	115466	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	105991	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	41285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59663	56.623	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.240%			
35) Dibromofluoromethane	5.379	113	42394	51.748	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.500%			
50) Toluene-d8	8.647	98	144482	50.528	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.060%			
62) 4-Bromofluorobenzene	11.079	95	51275	49.229	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.460%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.971	59	4349	30.712	ug/l	95
16) Acetone	2.380	43	28256	65.306	ug/l	96
18) Methyl Acetate	2.703	43	1872	1.879	ug/l	97
20) Methylene Chloride	2.788	84	4330	5.346	ug/l	97
25) 2-Butanone	4.562	43	25058	39.565	ug/l	99
43) Isopropyl Acetate	6.342	43	13387	6.336	ug/l	98

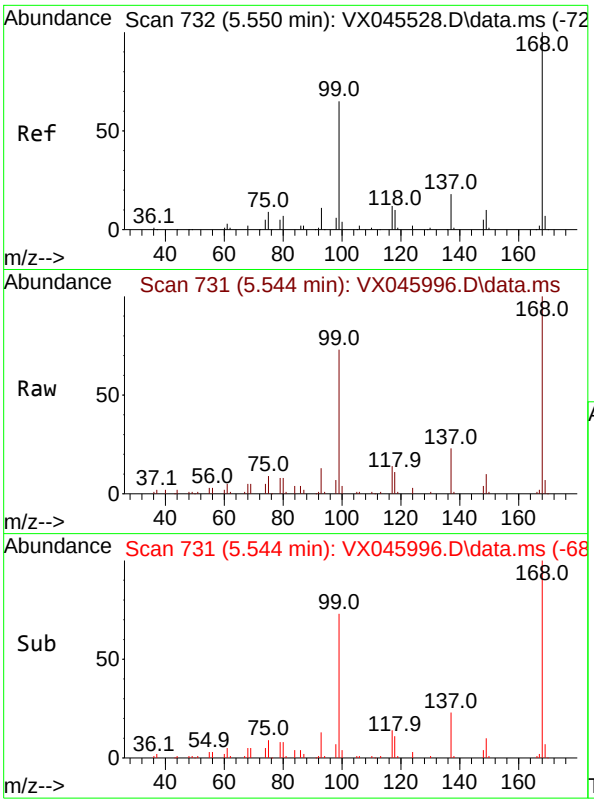
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045996.D
Acq On : 30 Apr 2025 14:29
Operator : JC/MD
Sample : Q1901-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Quant Time: May 01 03:37:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



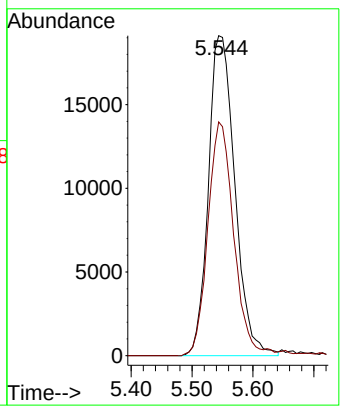


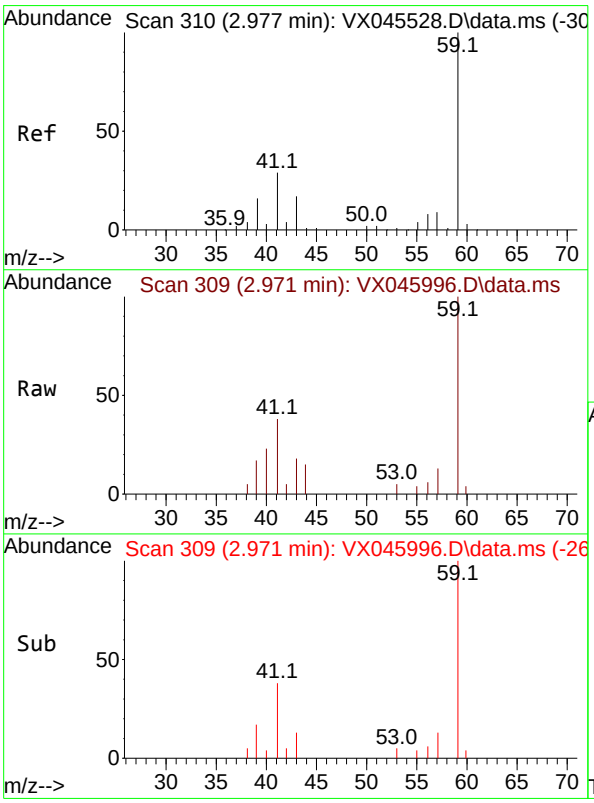
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion:168 Resp: 57618

Ion	Ratio	Lower	Upper
168	100		
99	73.0	52.3	78.5

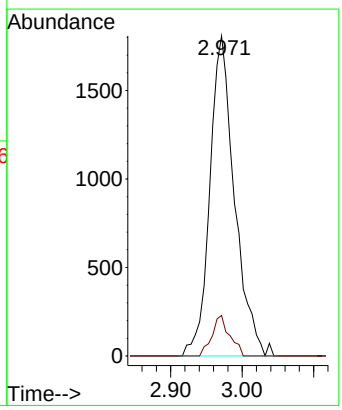


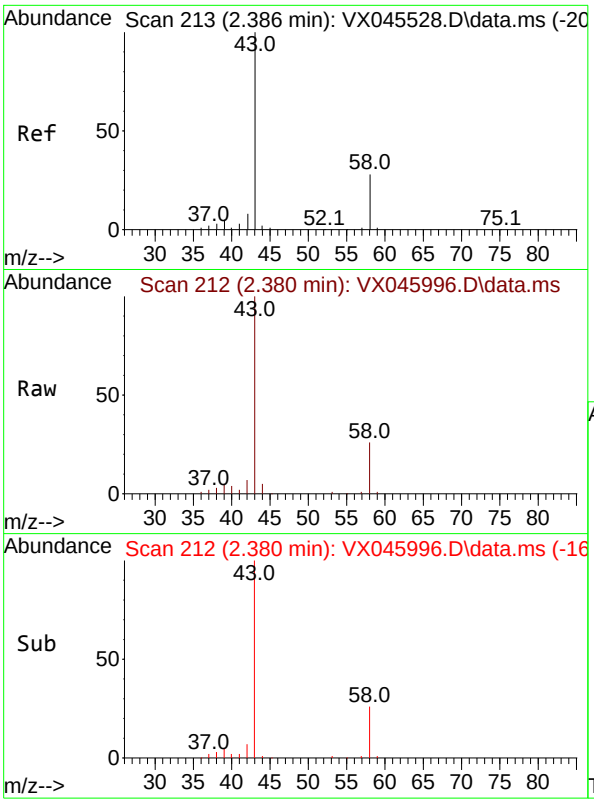


#11
Tert butyl alcohol
Concen: 30.712 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion: 59 Resp: 4349

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.6	12.8



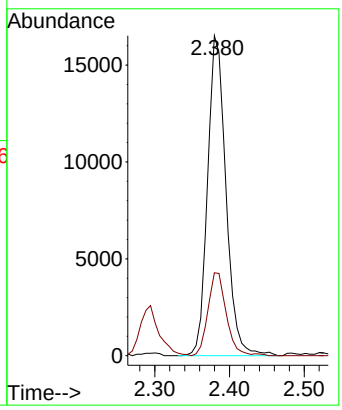


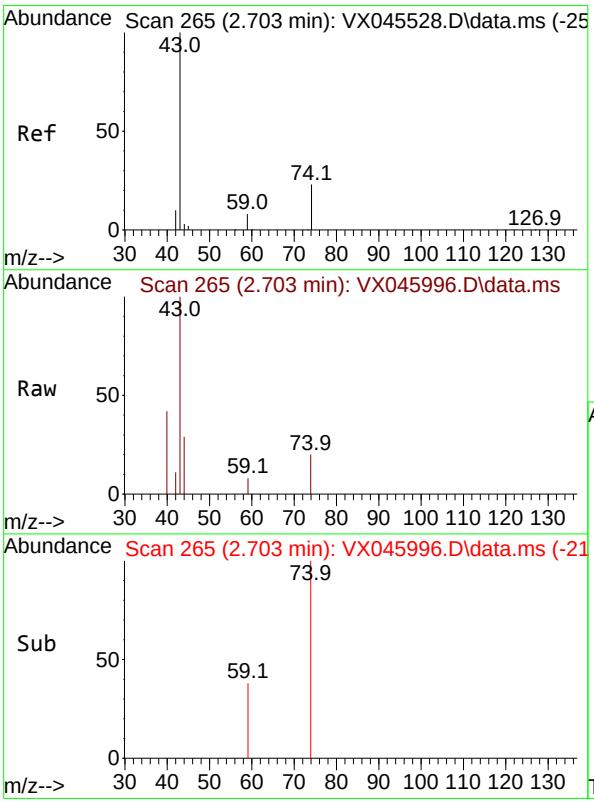
#16
Acetone
Concen: 65.306 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion: 43 Resp: 28256

Ion	Ratio	Lower	Upper
43	100		
58	25.9	22.3	33.5

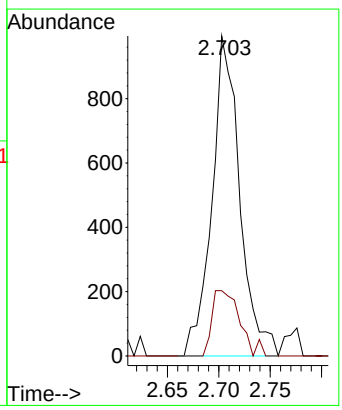


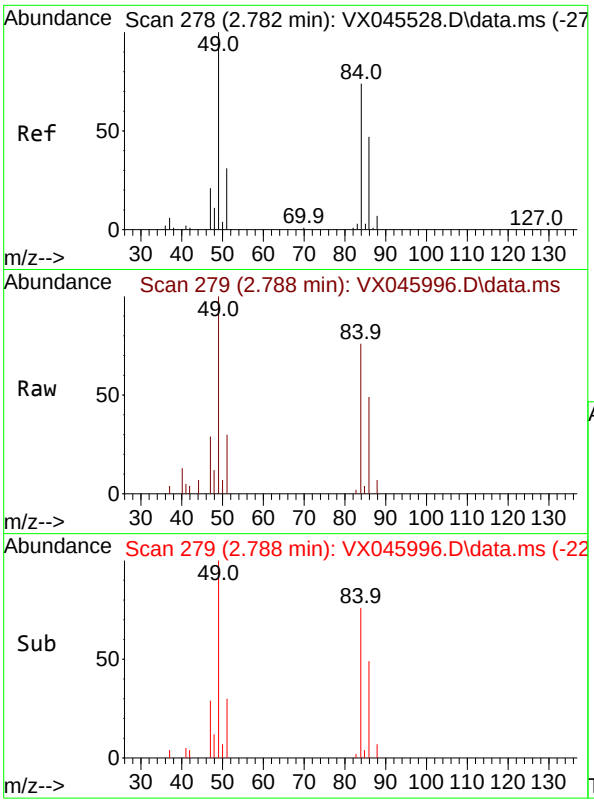


#18
Methyl Acetate
Concen: 1.879 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion: 43 Resp: 1872

Ion	Ratio	Lower	Upper
43	100		
74	20.4	17.5	26.3



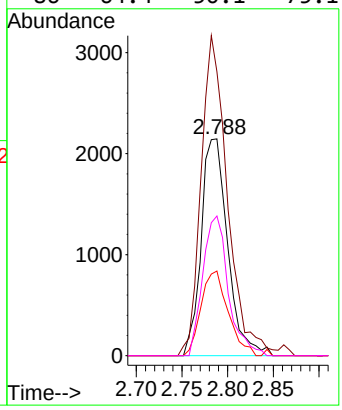


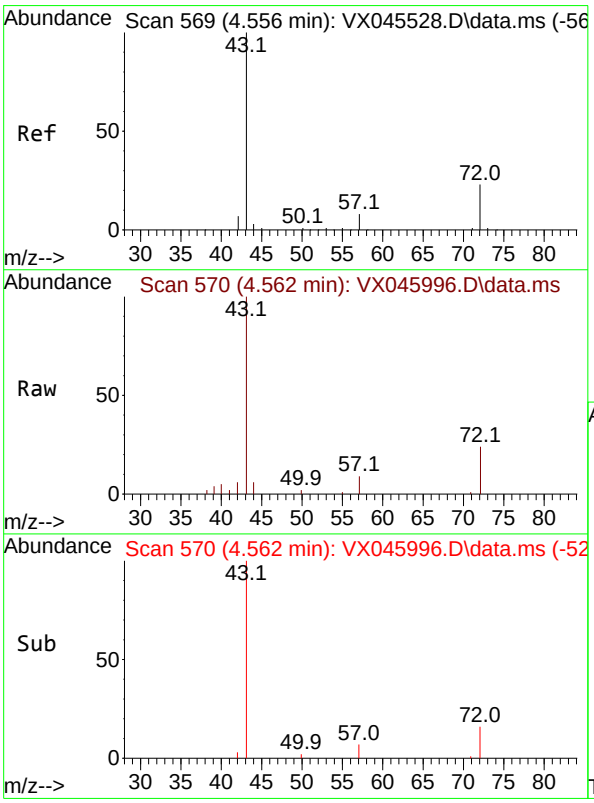
#20
Methylene Chloride
Concen: 5.346 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion: 84 Resp: 4330

Ion	Ratio	Lower	Upper
84	100		
49	131.0	107.5	161.3
51	39.0	33.0	49.6
86	64.4	50.1	75.1

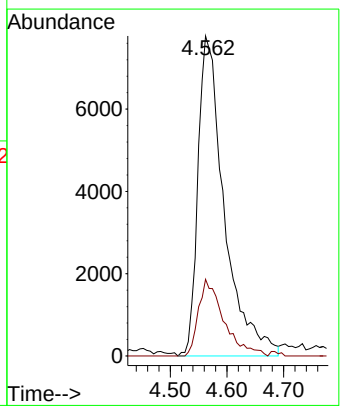


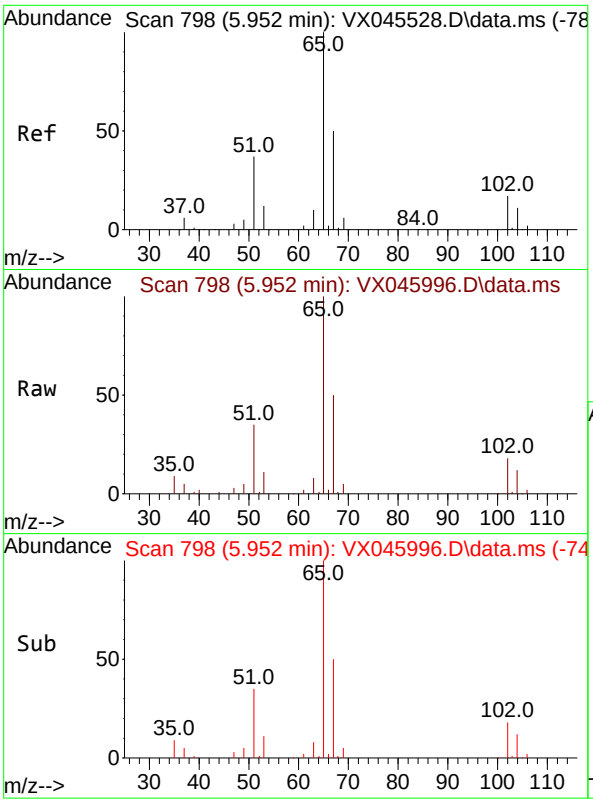


#25
2-Butanone
Concen: 39.565 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion: 43 Resp: 25058

Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.6	28.0



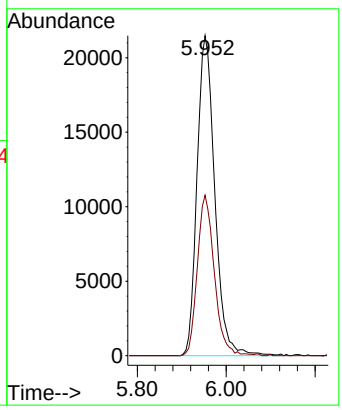


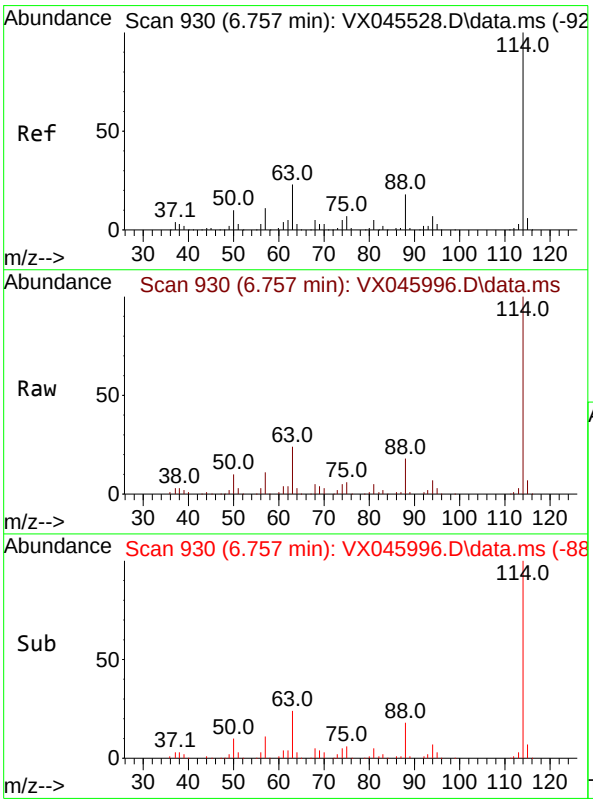
#33
1,2-Dichloroethane-d4
Concen: 56.623 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion: 65 Resp: 59663

Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	99.0

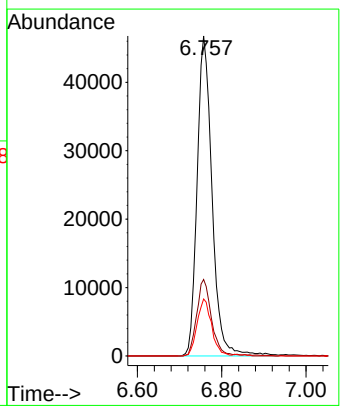


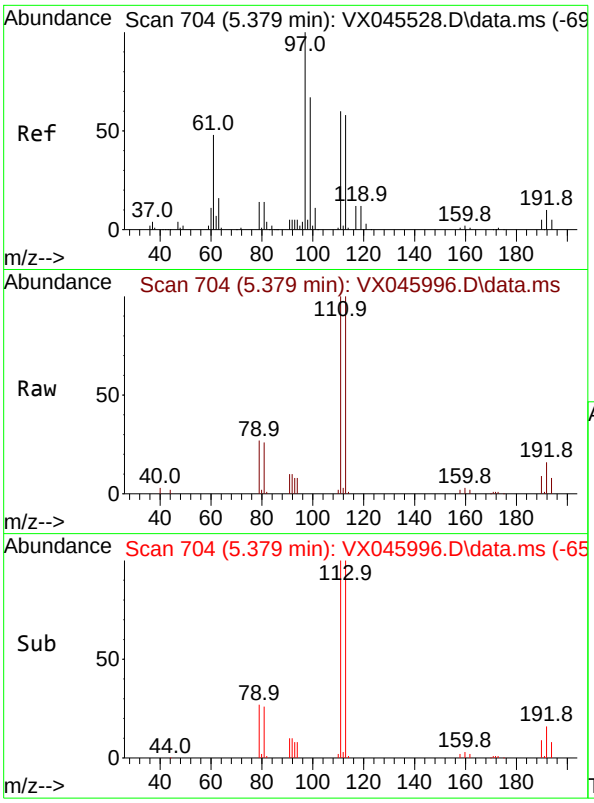


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion:114 Resp: 115466

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	46.8
88	17.8	0.0	35.4



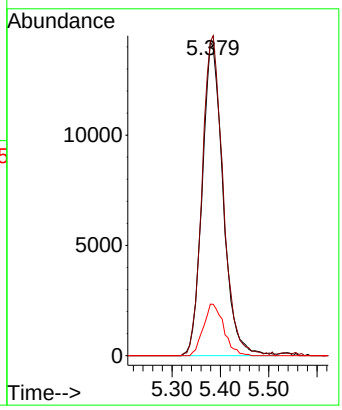


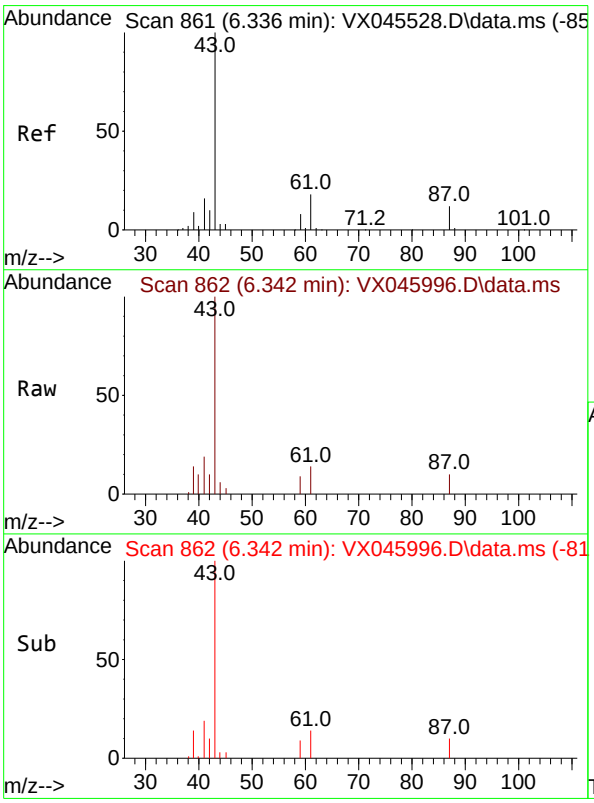
#35
Dibromofluoromethane
Concen: 51.748 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion:113 Resp: 42394

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	16.2	13.8	20.6

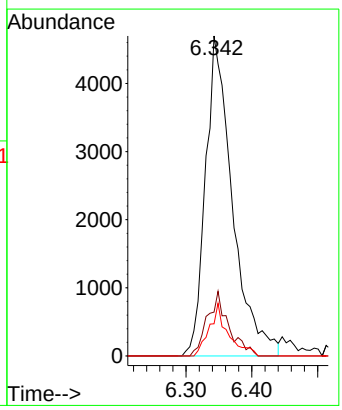


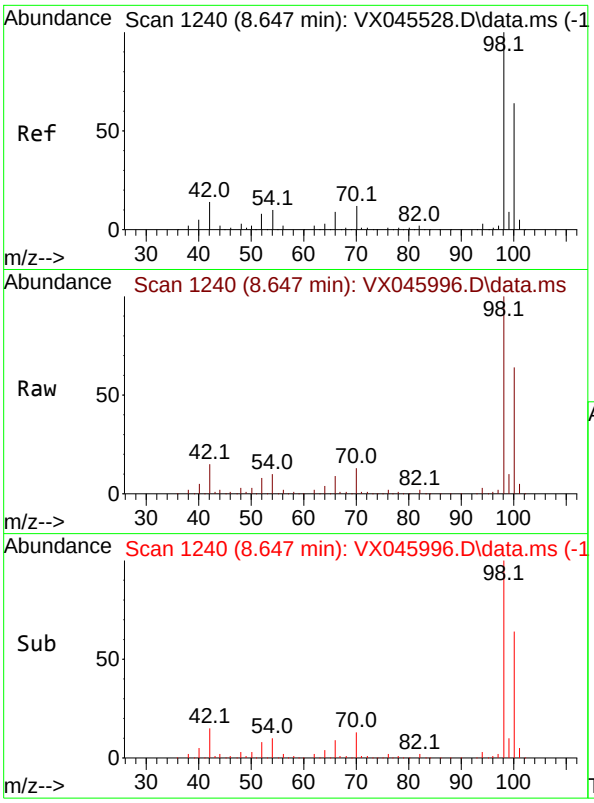


#43
Isopropyl Acetate
Concen: 6.336 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion: 43 Resp: 13387

Ion	Ratio	Lower	Upper
43	100		
61	16.0	14.1	21.1
87	11.4	9.2	13.8



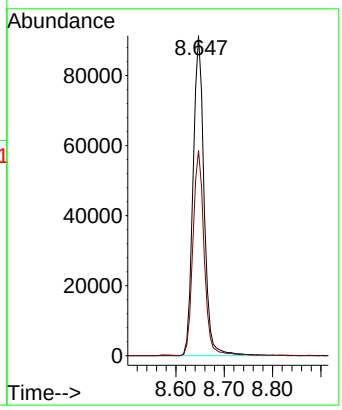


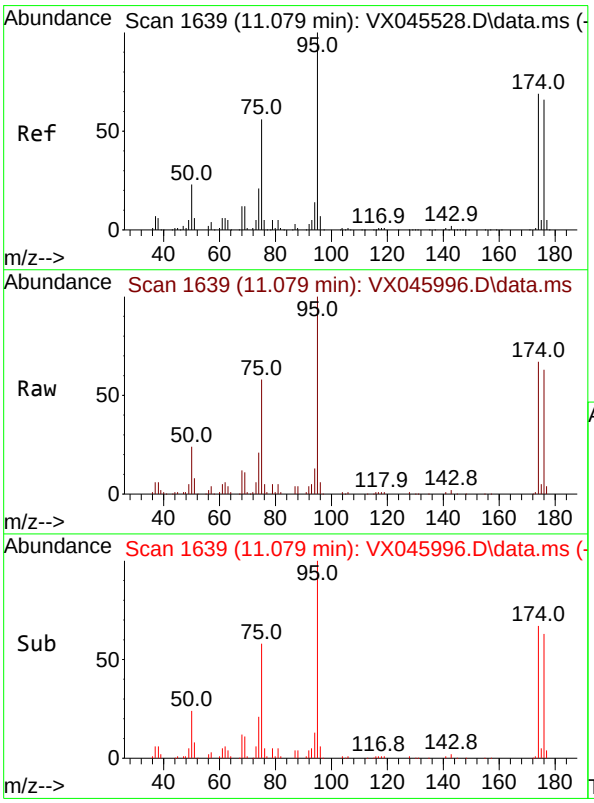
#50
Toluene-d8
Concen: 50.528 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion: 98 Resp: 144482

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.4

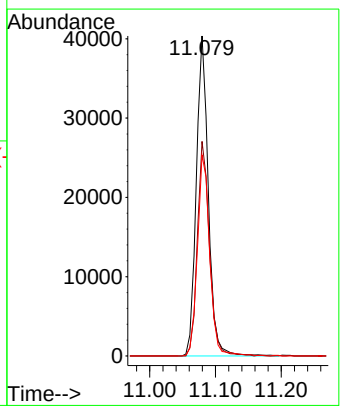


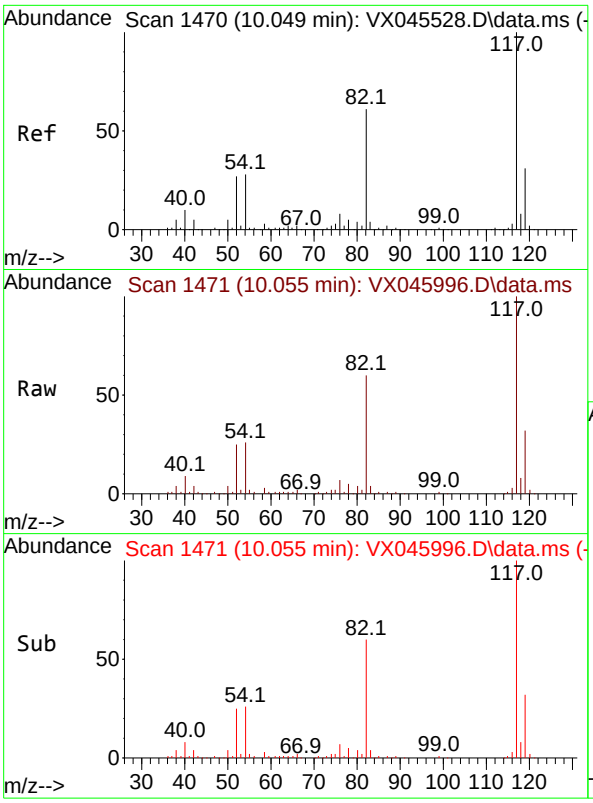


#62
4-Bromofluorobenzene
Concen: 49.229 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion: 95 Resp: 51275

Ion	Ratio	Lower	Upper
95	100		
174	67.3	0.0	135.8
176	64.3	0.0	131.4



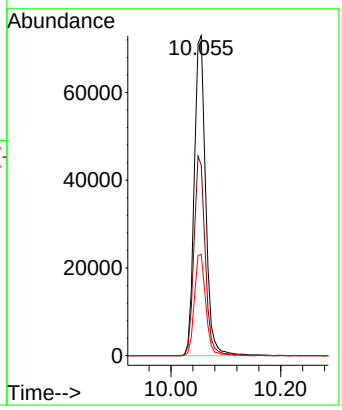


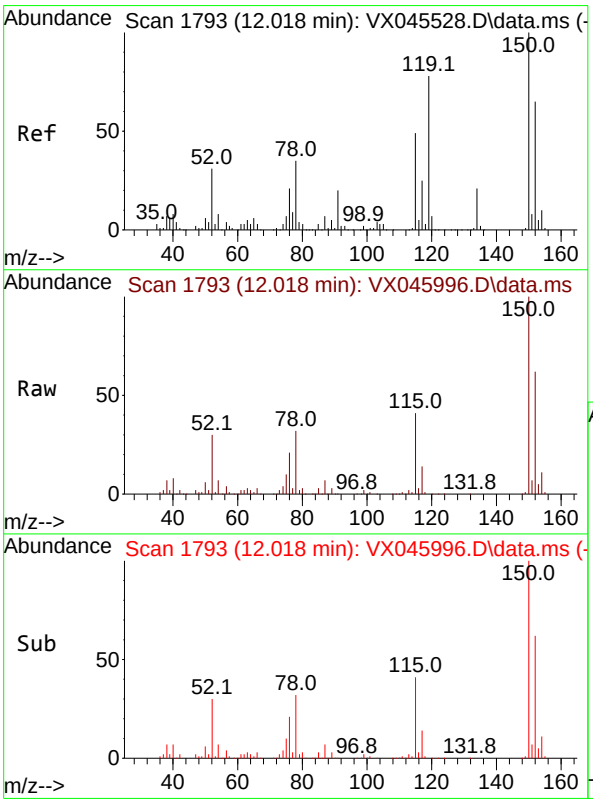
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Tgt Ion:117 Resp: 105991

Ion	Ratio	Lower	Upper
117	100		
82	59.5	49.2	73.8
119	31.6	25.1	37.7

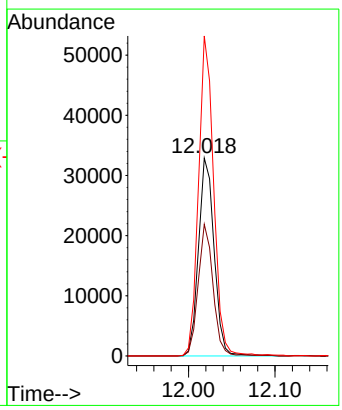




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion:152 Resp: 41285

Ion	Ratio	Lower	Upper
152	100		
115	63.5	46.9	140.7
150	156.8	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045993.D
Acq On : 30 Apr 2025 13:19
Operator : JC/MD
Sample : Q1901-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Quant Time: May 01 03:36:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

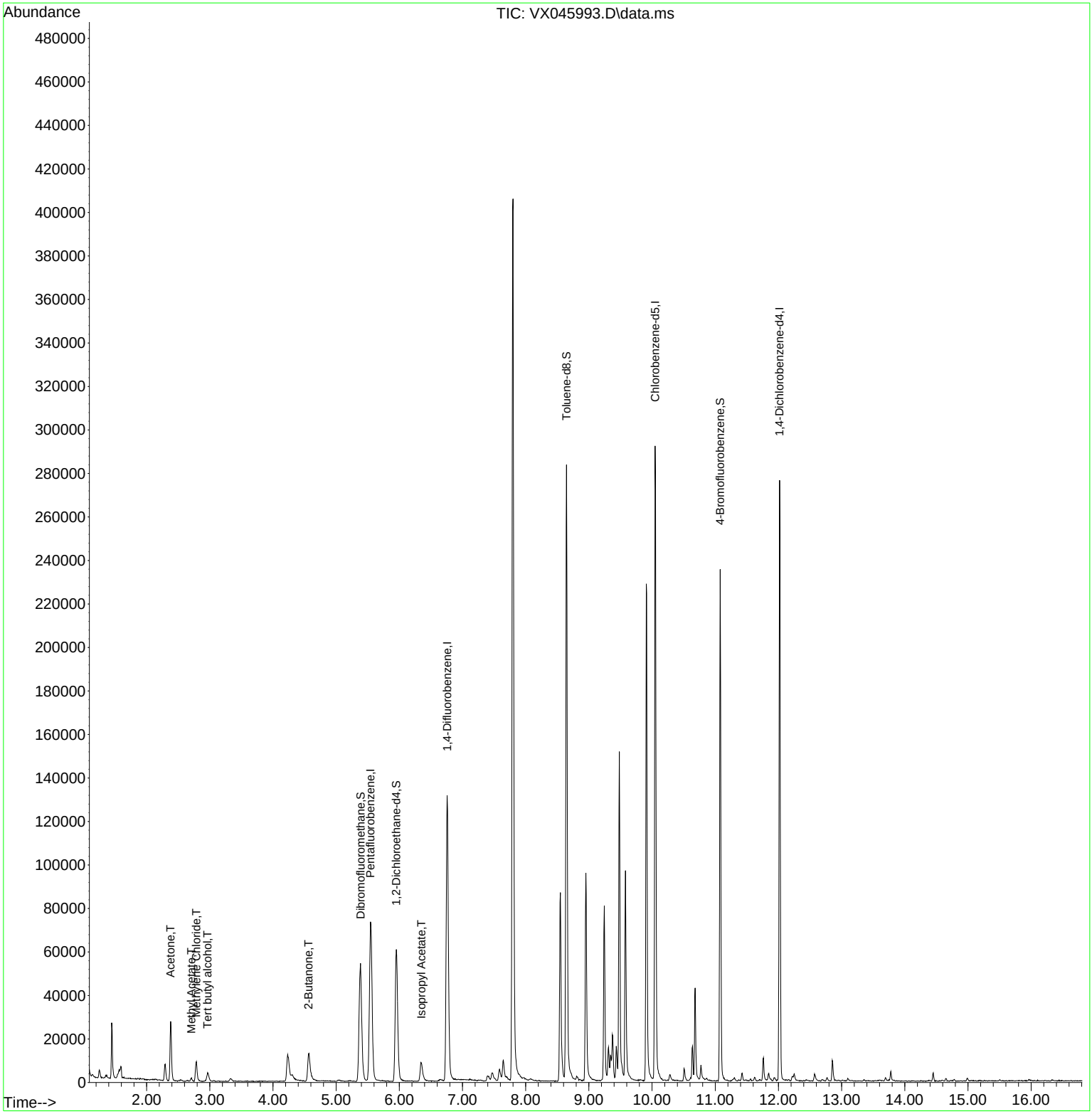
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	62684	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	125601	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119798	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63996	55.827	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.660%			
35) Dibromofluoromethane	5.385	113	47092	52.845	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.680%			
50) Toluene-d8	8.647	98	160020	51.446	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.900%			
62) 4-Bromofluorobenzene	11.079	95	59966	52.928	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.860%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.965	59	4197	27.243	ug/l	98
16) Acetone	2.380	43	29145	61.917	ug/l	98
18) Methyl Acetate	2.709	43	1813	1.673	ug/l #	85
20) Methylene Chloride	2.788	84	4107	4.661	ug/l	95
25) 2-Butanone	4.562	43	25122	36.460	ug/l	99
43) Isopropyl Acetate	6.348	43	13171	5.731	ug/l	99

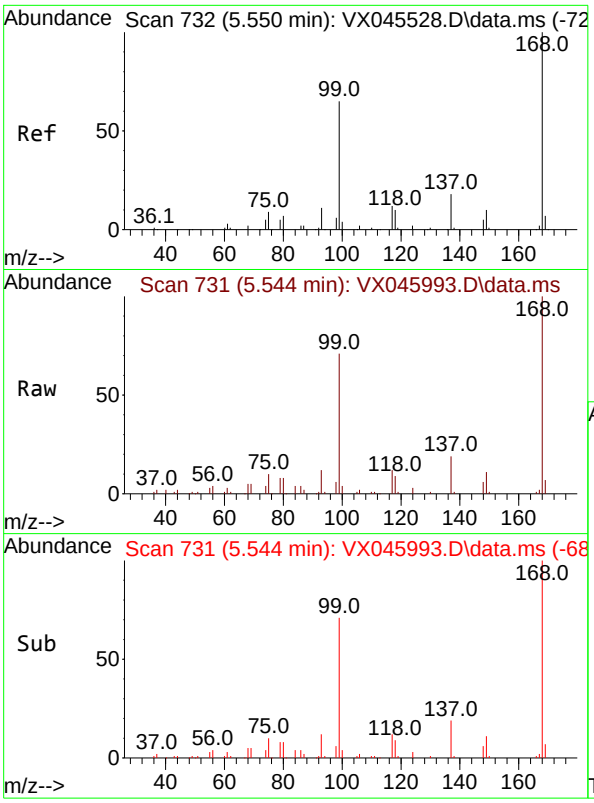
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045993.D
Acq On : 30 Apr 2025 13:19
Operator : JC/MD
Sample : Q1901-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Quant Time: May 01 03:36:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



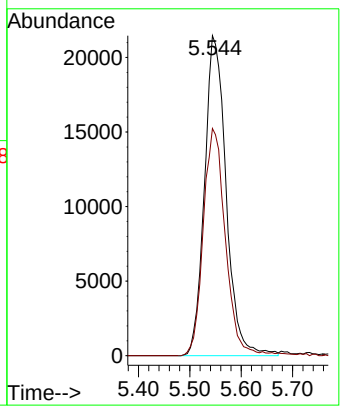


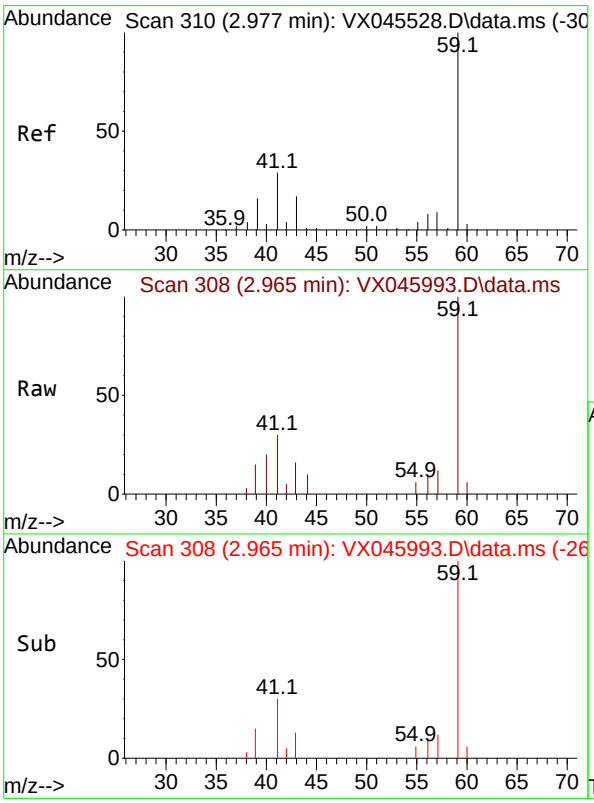
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Tgt Ion:168 Resp: 62684

Ion	Ratio	Lower	Upper
168	100		
99	71.0	52.3	78.5

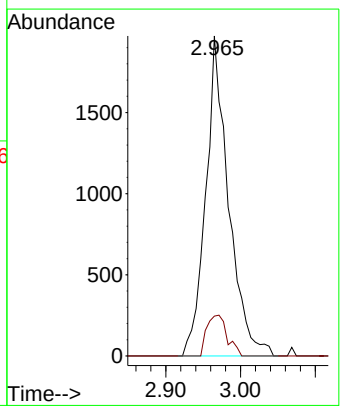


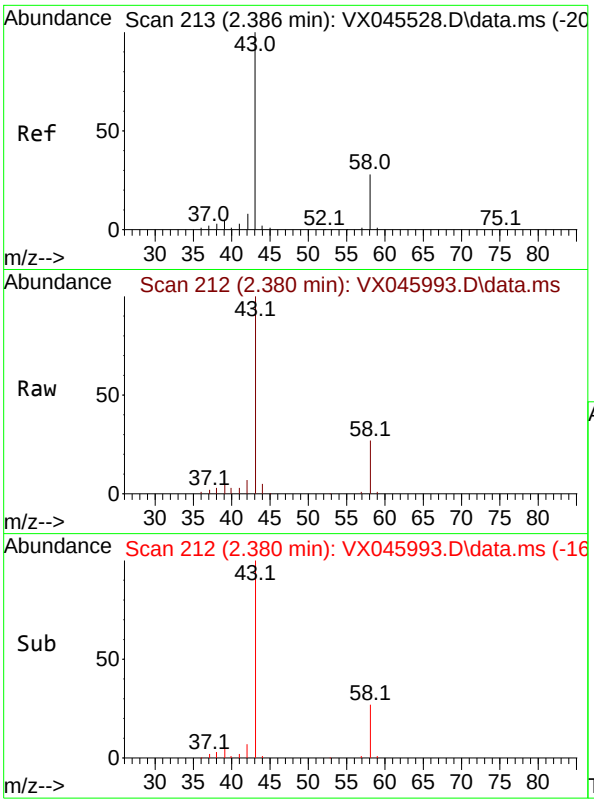


#11
Tert butyl alcohol
Concen: 27.243 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 59 Resp: 4197

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.6	12.8



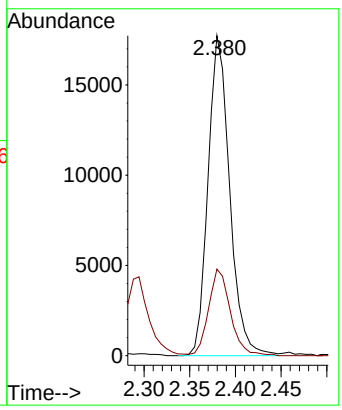


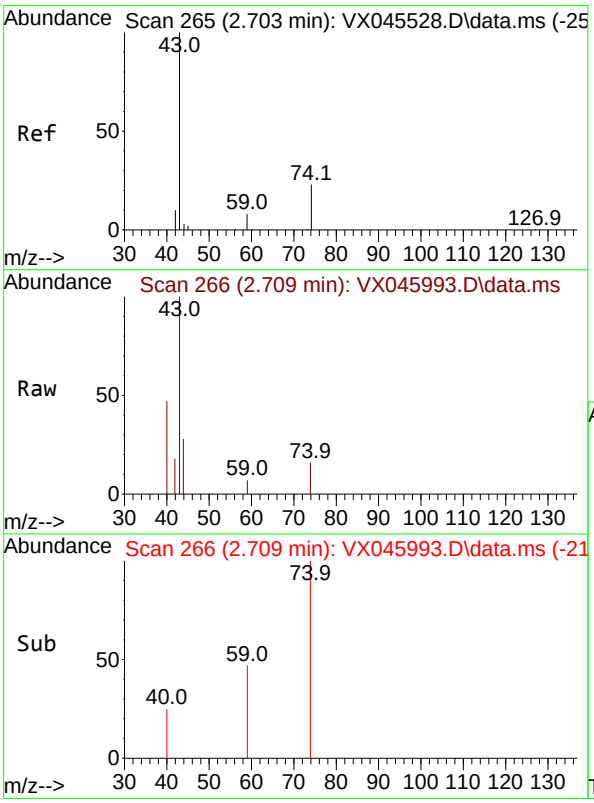
#16
Acetone
Concen: 61.917 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Tgt Ion: 43 Resp: 29145

Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.3	33.5

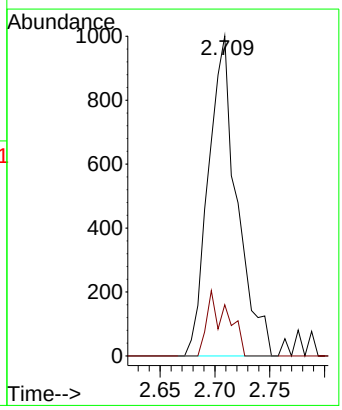


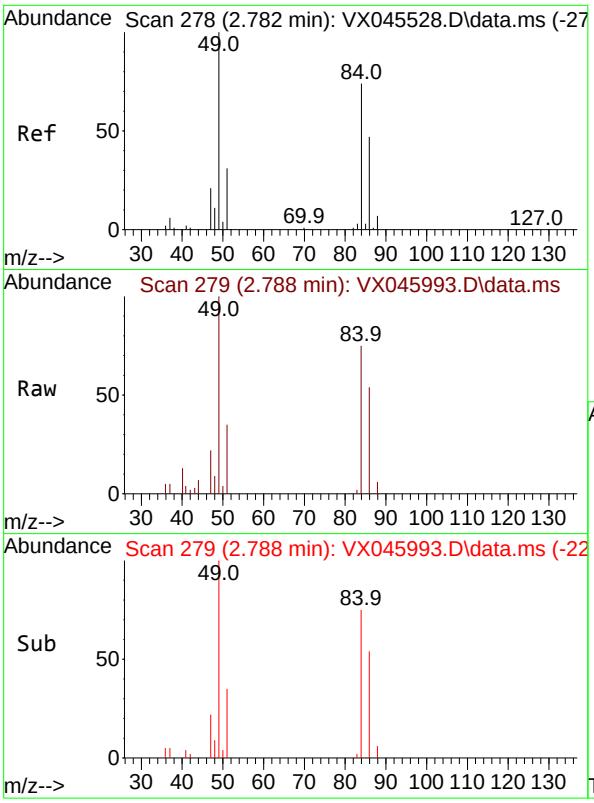


#18
Methyl Acetate
Concen: 1.673 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 43 Resp: 1813

Ion	Ratio	Lower	Upper
43	100		
74	14.7	17.5	26.3#



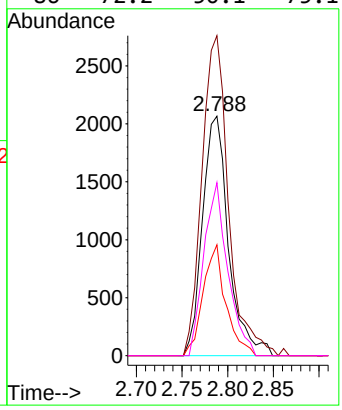


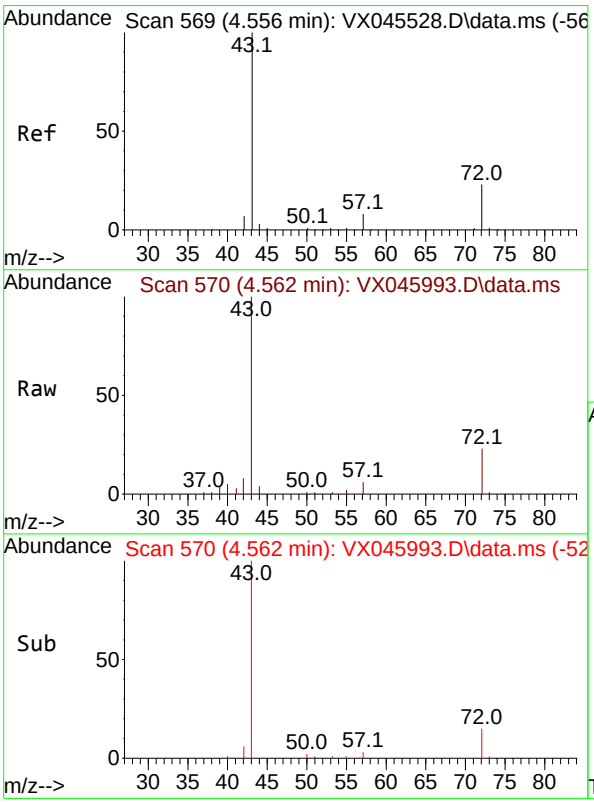
#20
Methylene Chloride
Concen: 4.661 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Tgt Ion: 84 Resp: 4107

Ion	Ratio	Lower	Upper
84	100		
49	133.6	107.5	161.3
51	46.3	33.0	49.6
86	72.2	50.1	75.1

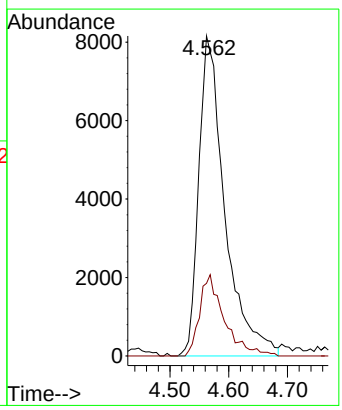




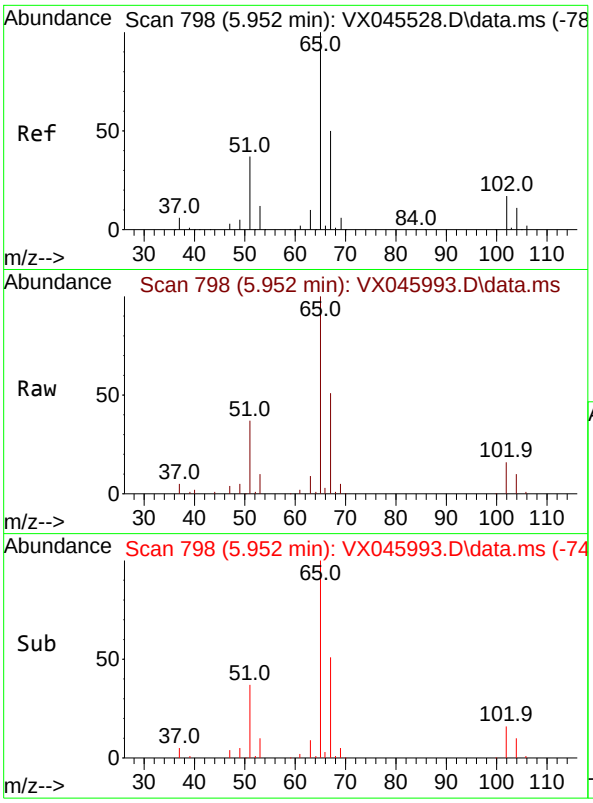
#25
2-Butanone
Concen: 36.460 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 43 Resp: 25122

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.6	28.0



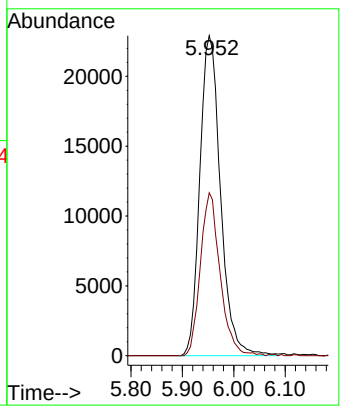
Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

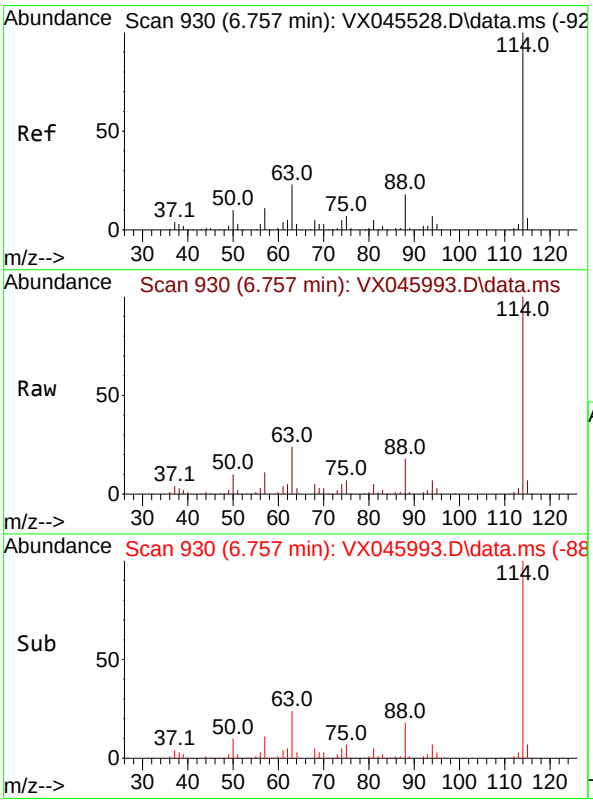


#33
1,2-Dichloroethane-d4
Concen: 55.827 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 65 Resp: 63996

Ion	Ratio	Lower	Upper
65	100		
67	48.5	0.0	99.0

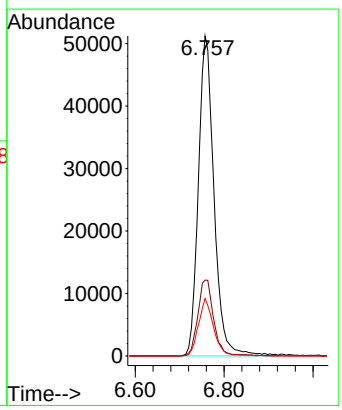


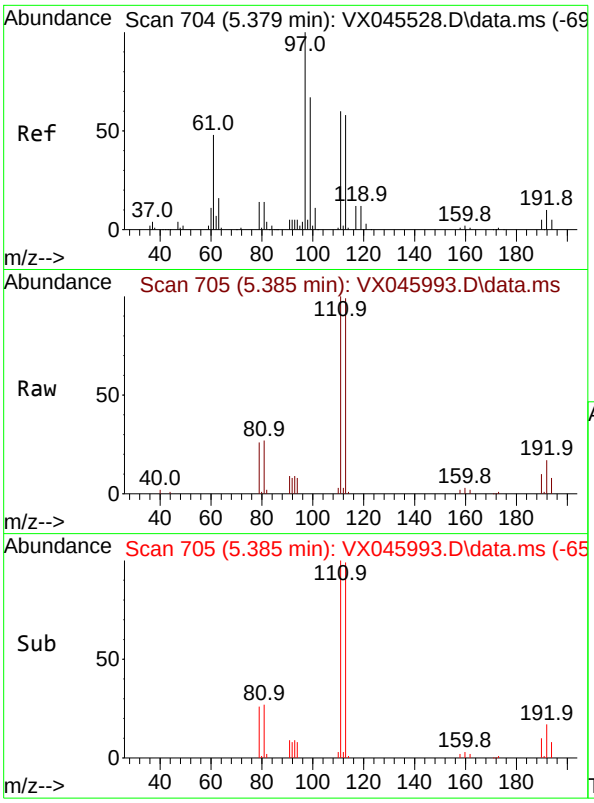


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion:114 Resp: 125601

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	46.8
88	17.9	0.0	35.4



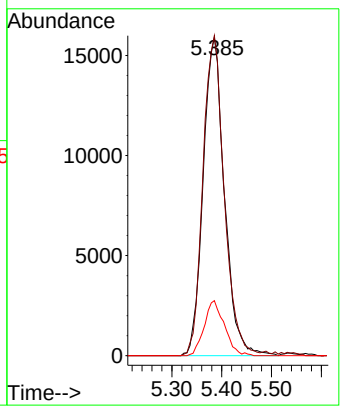


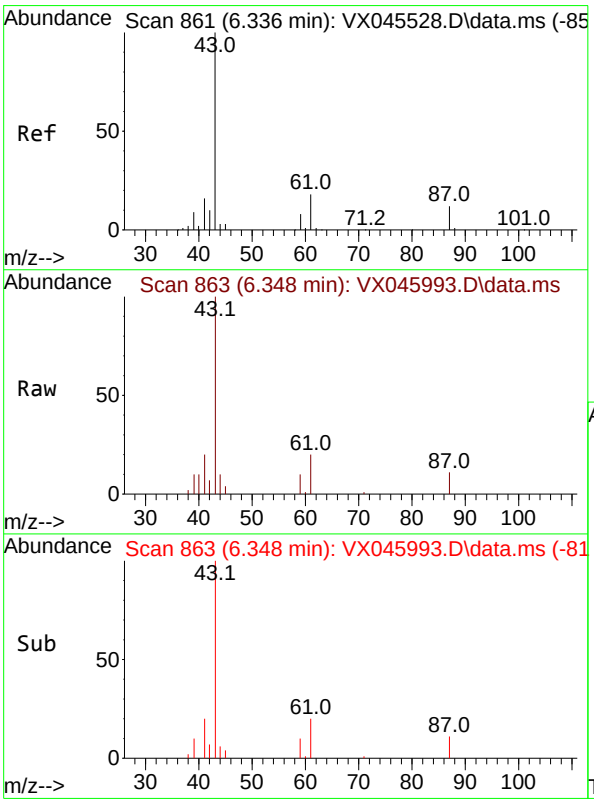
#35
Dibromofluoromethane
Concen: 52.845 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Tgt Ion:113 Resp: 47092

Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.8	122.6
192	16.5	13.8	20.6

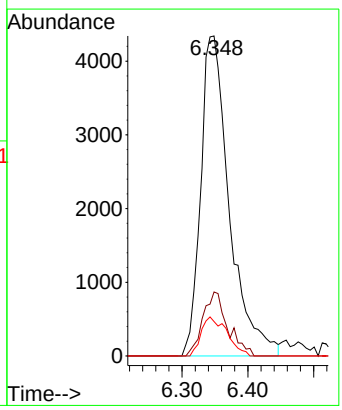


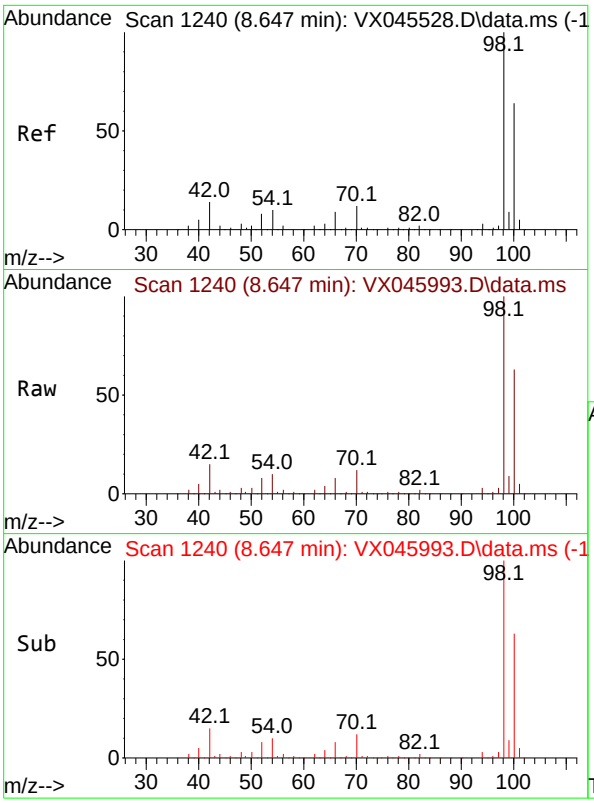


#43
Isopropyl Acetate
Concen: 5.731 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.012 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 43 Resp: 13171

Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.1	21.1
87	11.0	9.2	13.8



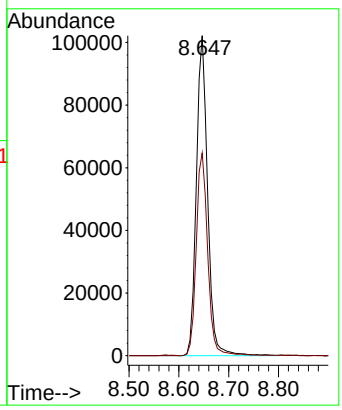


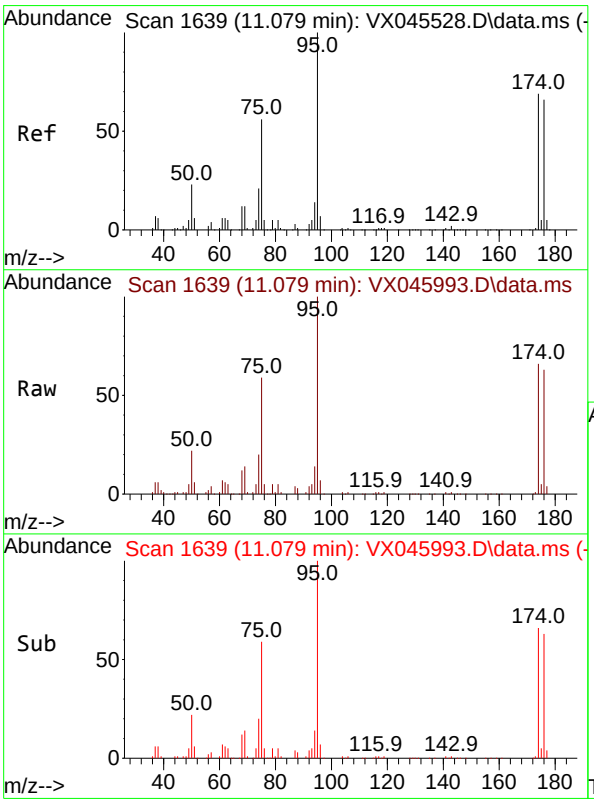
#50
Toluene-d8
Concen: 51.446 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Tgt Ion: 98 Resp: 160020

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4

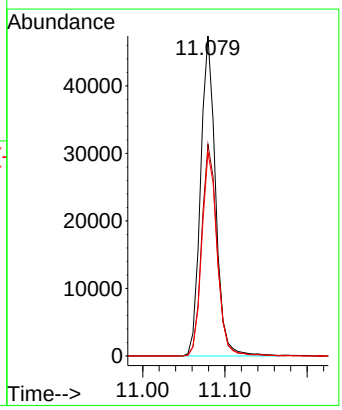


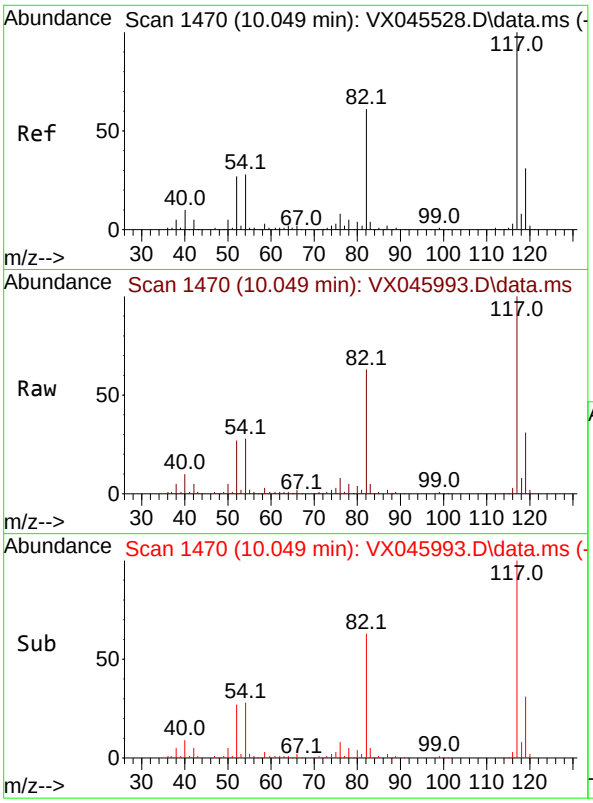


#62
4-Bromofluorobenzene
Concen: 52.928 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 95 Resp: 59966

Ion	Ratio	Lower	Upper
95	100		
174	68.0	0.0	135.8
176	65.2	0.0	131.4



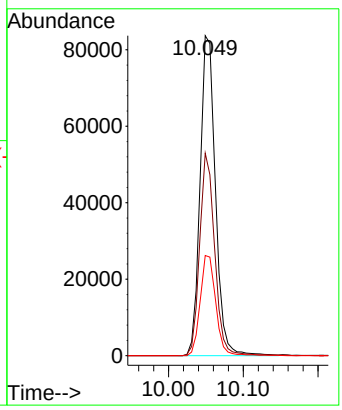


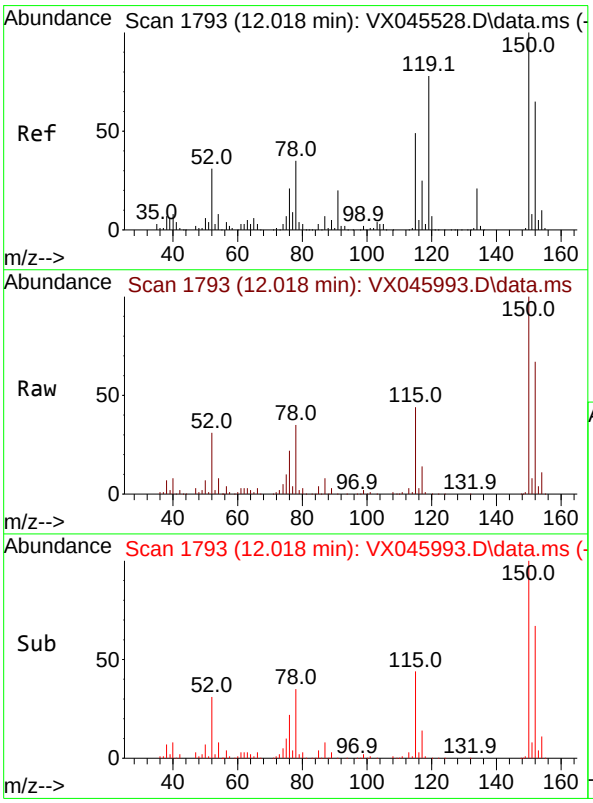
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Tgt Ion:117 Resp: 119798

Ion	Ratio	Lower	Upper
117	100		
82	63.3	49.2	73.8
119	31.3	25.1	37.7

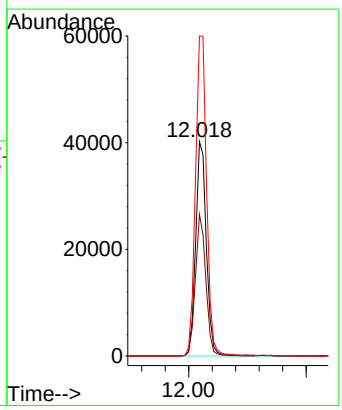




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion:152 Resp: 50854

Ion	Ratio	Lower	Upper
152	100		
115	64.6	46.9	140.7
150	155.2	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045994.D
Acq On : 30 Apr 2025 13:42
Operator : JC/MD
Sample : Q1901-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Quant Time: May 01 03:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

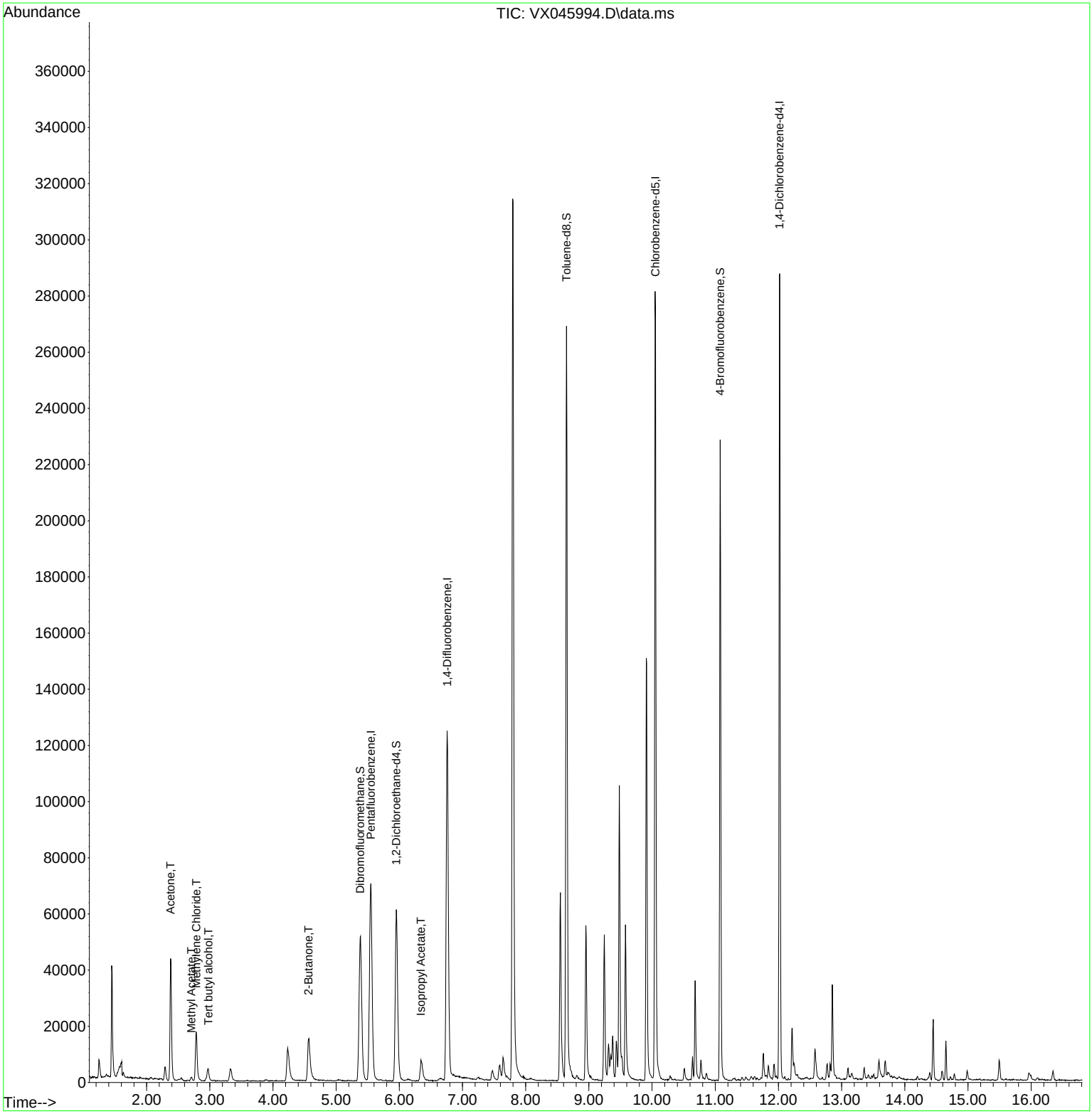
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	59744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	118644	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	115892	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61574	56.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.720%			
35) Dibromofluoromethane	5.379	113	44834	53.261	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.520%			
50) Toluene-d8	8.647	98	154167	52.471	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.940%			
62) 4-Bromofluorobenzene	11.079	95	59351	55.457	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.920%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.977	59	4582	31.206	ug/l	99
16) Acetone	2.380	43	46453	103.543	ug/l	98
18) Methyl Acetate	2.709	43	1797	1.740	ug/l	99
20) Methylene Chloride	2.788	84	8072	9.611	ug/l	94
25) 2-Butanone	4.562	43	30197	45.982	ug/l	97
43) Isopropyl Acetate	6.342	43	10597	4.881	ug/l	98

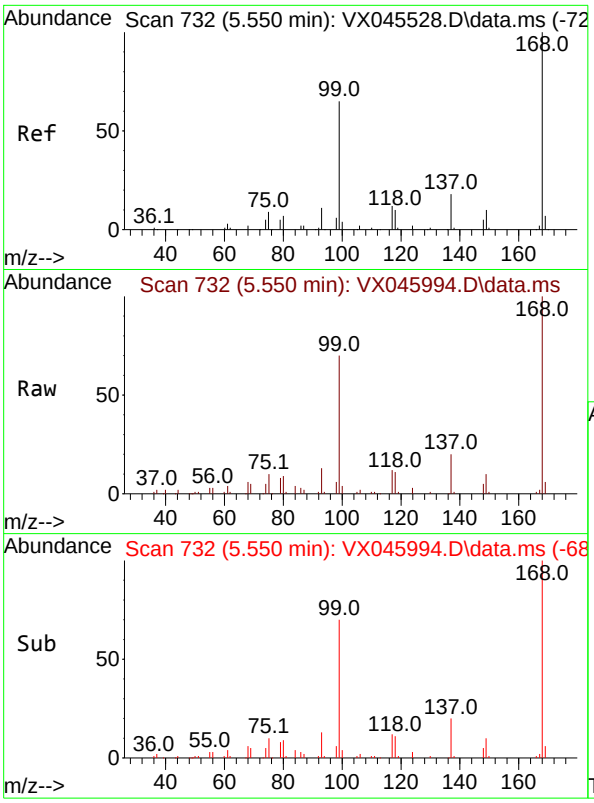
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045994.D
Acq On : 30 Apr 2025 13:42
Operator : JC/MD
Sample : Q1901-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Quant Time: May 01 03:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



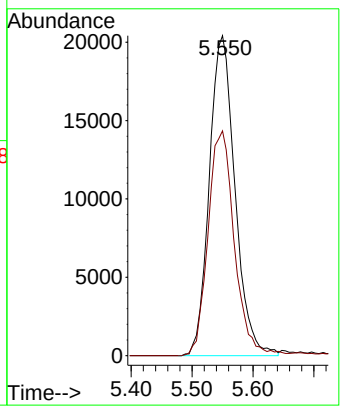


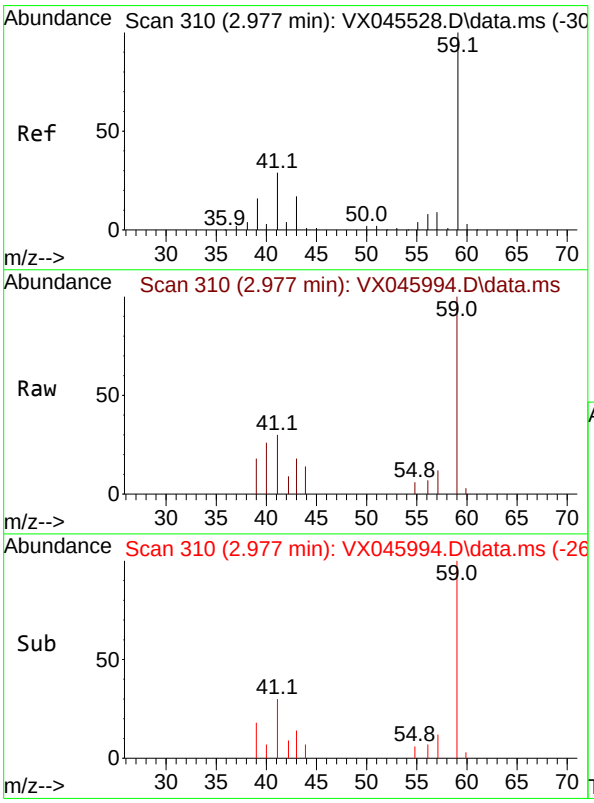
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion:168 Resp: 59744

Ion	Ratio	Lower	Upper
168	100		
99	70.2	52.3	78.5

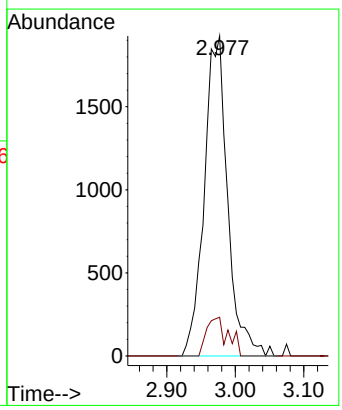


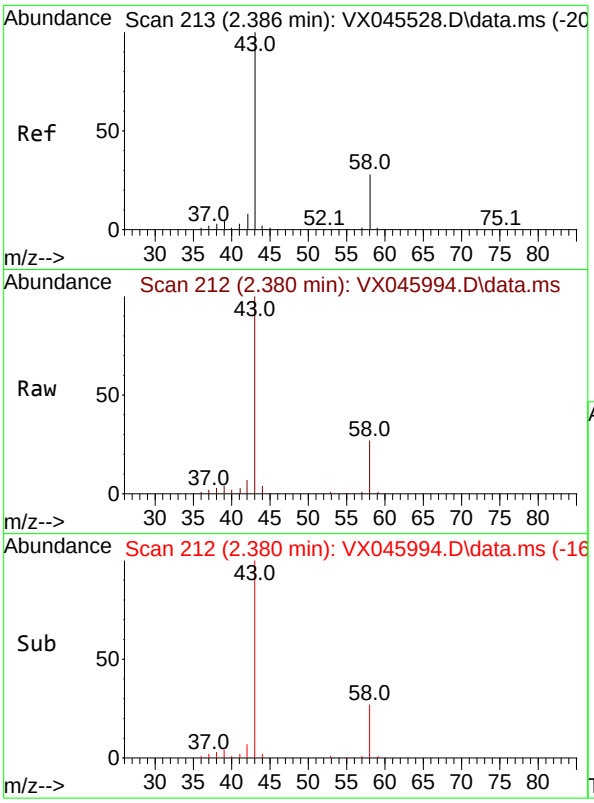


#11
Tert butyl alcohol
Concen: 31.206 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 59 Resp: 4582

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8



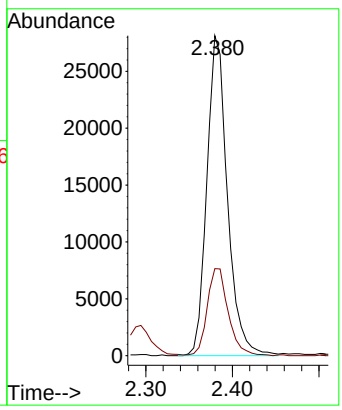


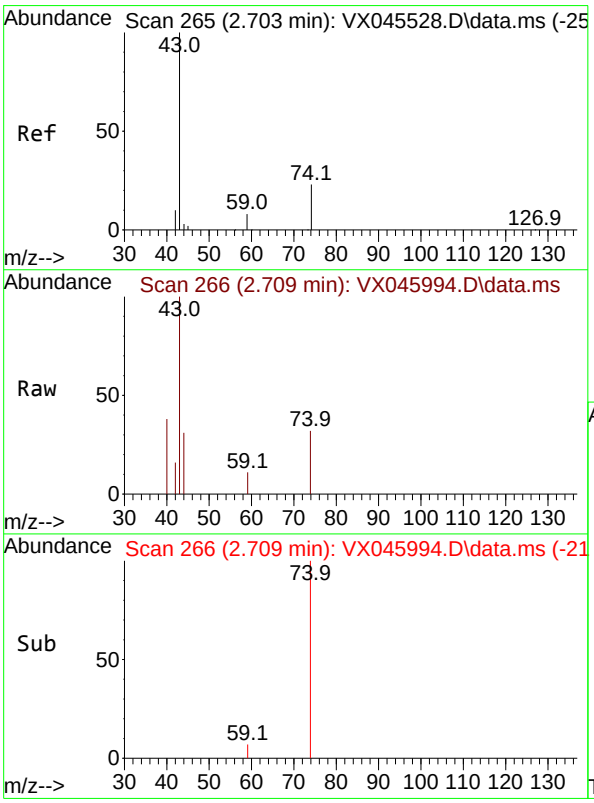
#16
Acetone
Concen: 103.543 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion: 43 Resp: 46453

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.3	33.5

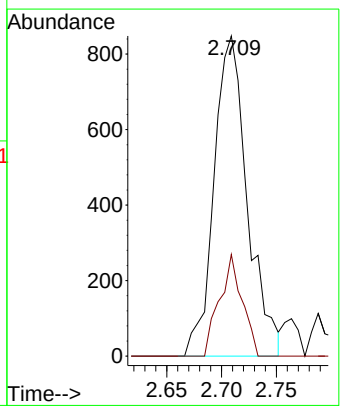


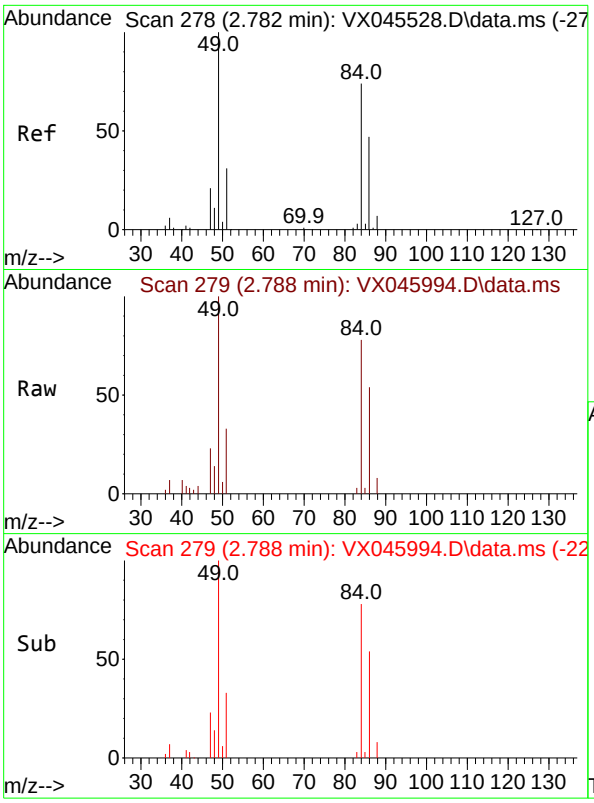


#18
Methyl Acetate
Concen: 1.740 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 43 Resp: 1797

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.5	26.3



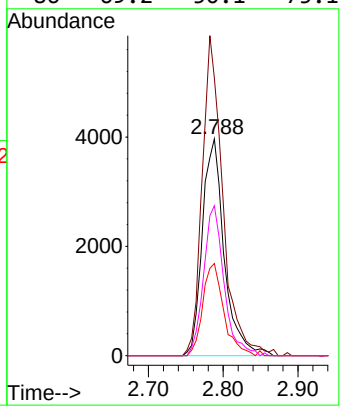


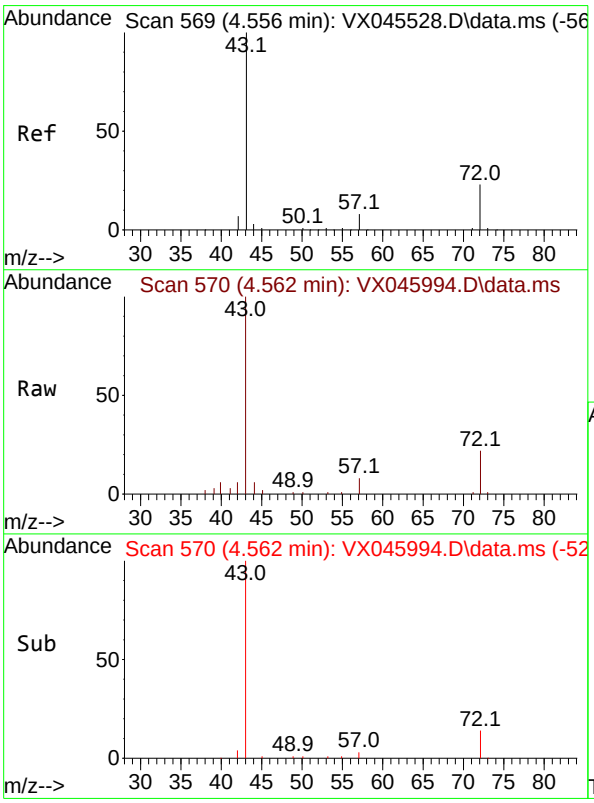
#20
Methylene Chloride
Concen: 9.611 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion: 84 Resp: 8072

Ion	Ratio	Lower	Upper
84	100		
49	128.0	107.5	161.3
51	42.5	33.0	49.6
86	69.2	50.1	75.1

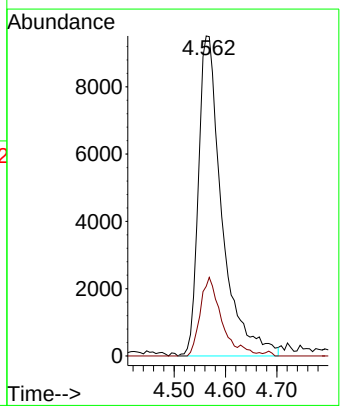


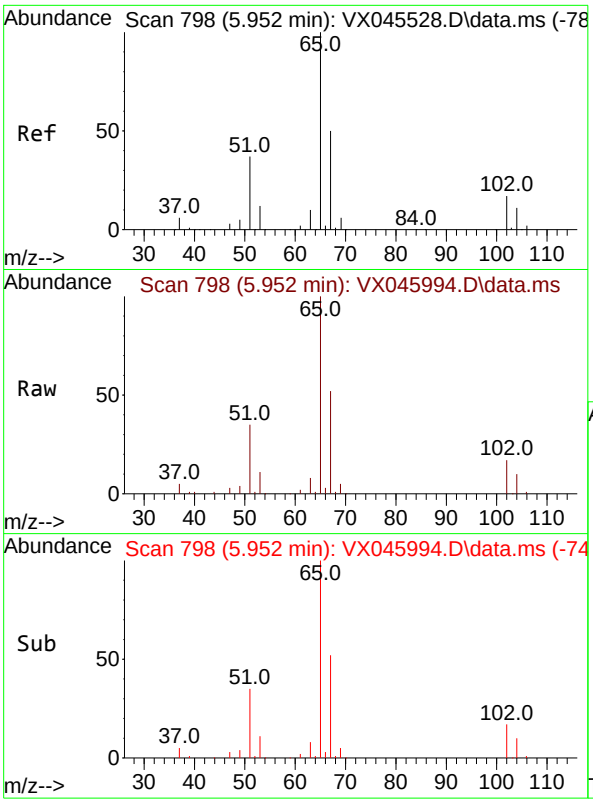


#25
2-Butanone
Concen: 45.982 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 43 Resp: 30197

Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.6	28.0



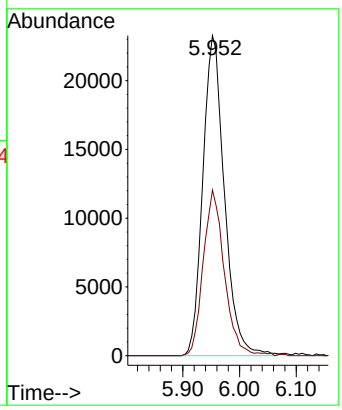


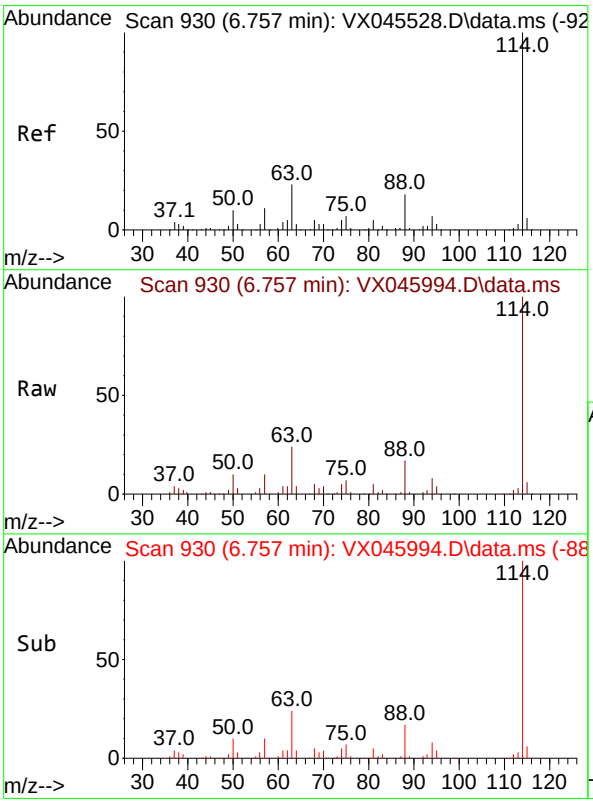
#33
1,2-Dichloroethane-d4
Concen: 56.357 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion: 65 Resp: 61574

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	99.0

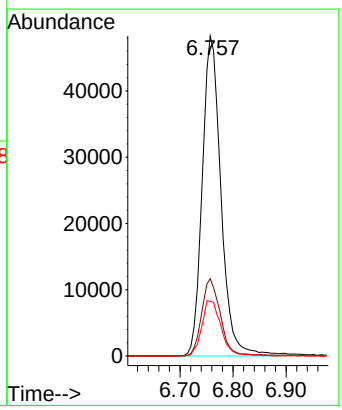


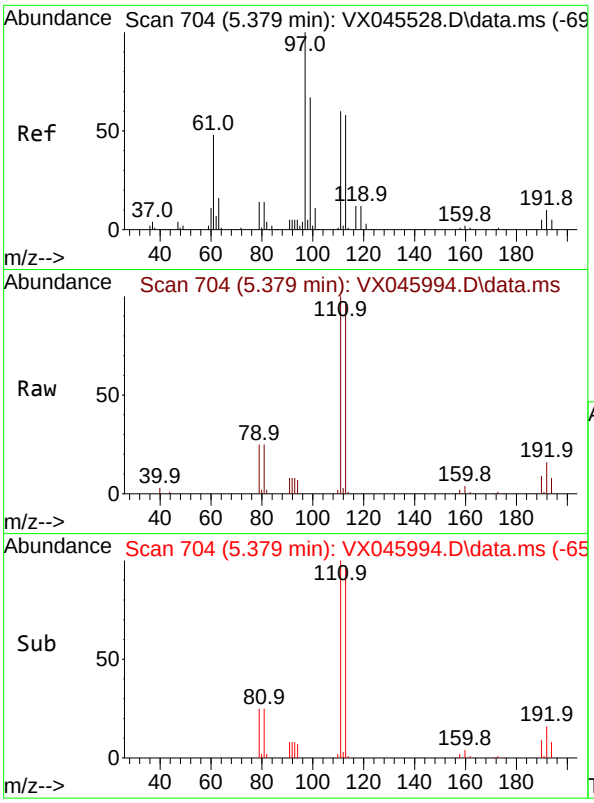


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion:114 Resp: 118644

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	46.8
88	17.0	0.0	35.4



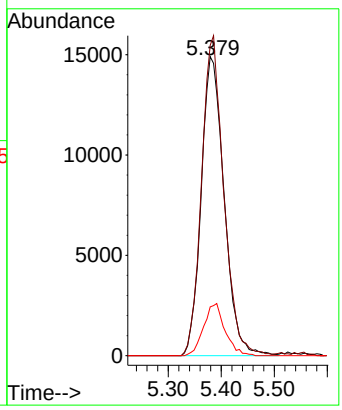


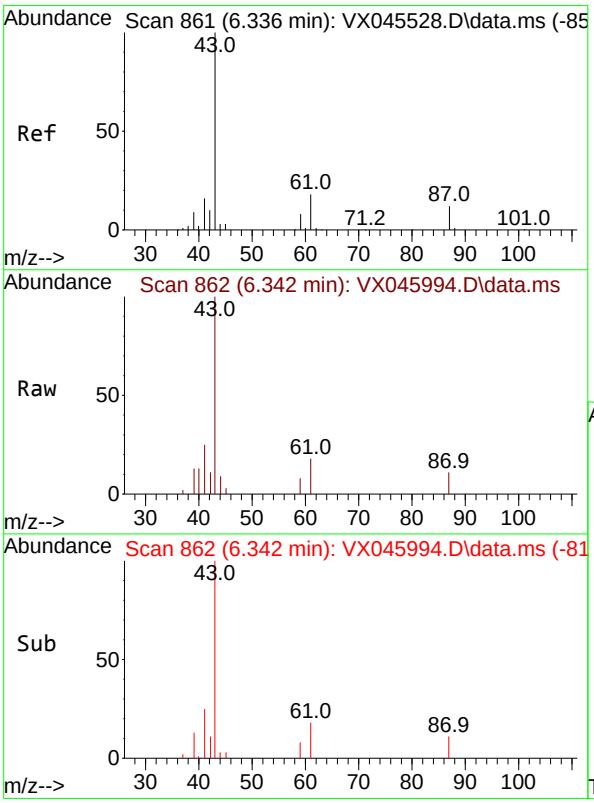
#35
Dibromofluoromethane
Concen: 53.261 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion:113 Resp: 44834

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.8	122.6
192	16.3	13.8	20.6

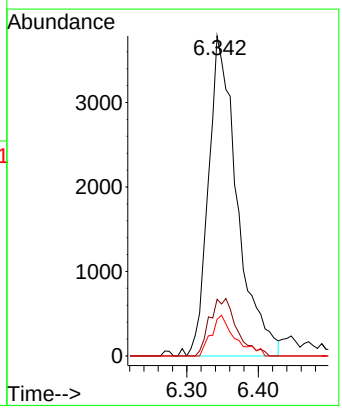


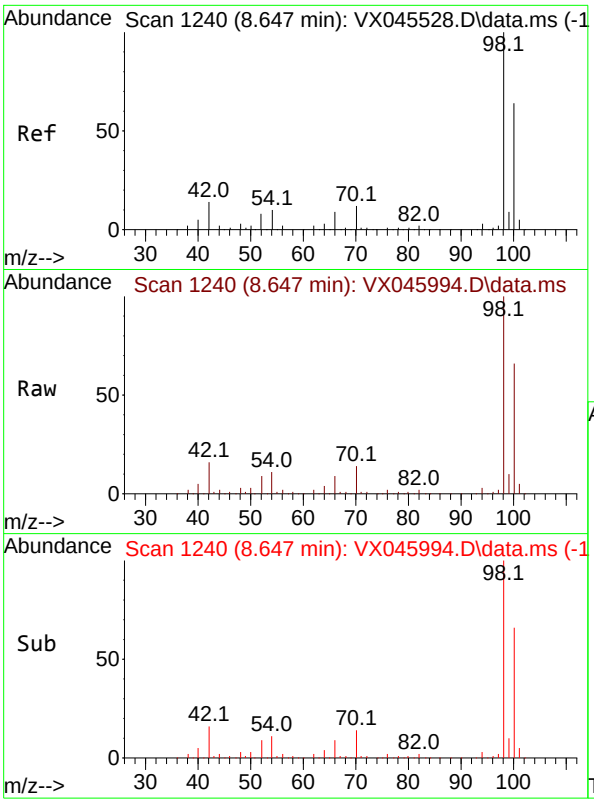


#43
Isopropyl Acetate
Concen: 4.881 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 43 Resp: 10597

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.1	21.1
87	10.5	9.2	13.8



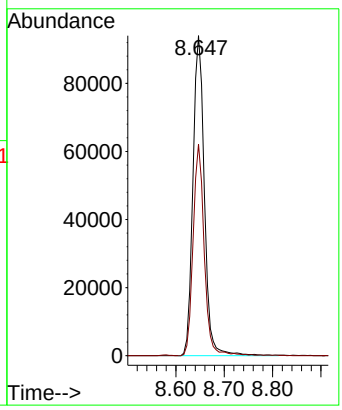


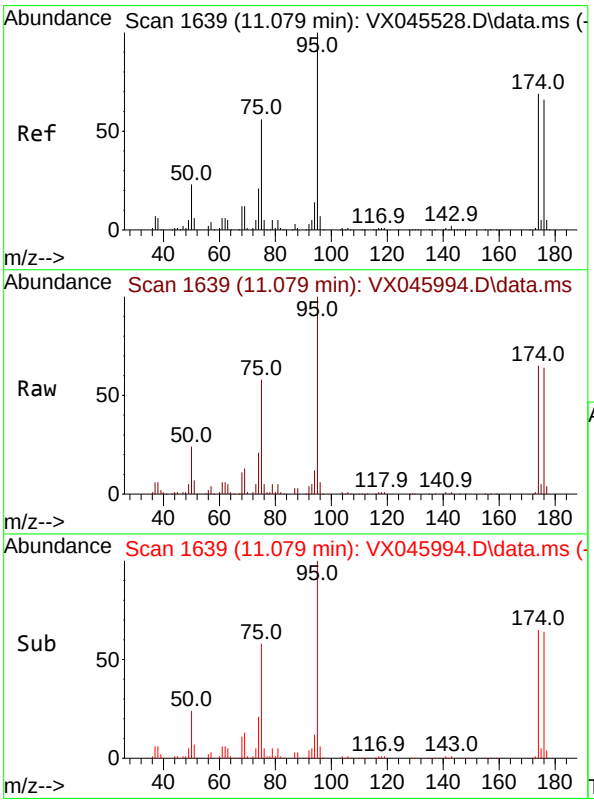
#50
Toluene-d8
Concen: 52.471 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion: 98 Resp: 154167

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.2	78.4

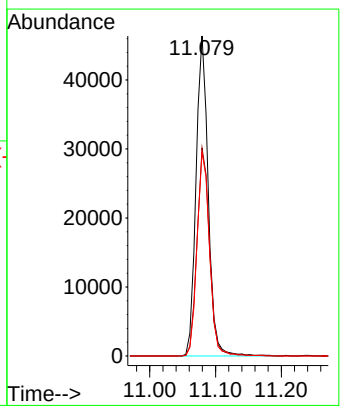


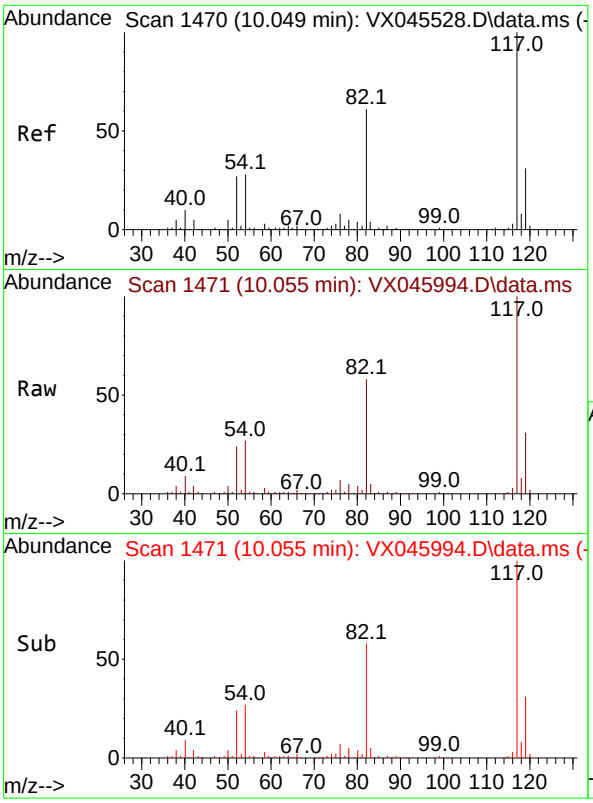


#62
4-Bromofluorobenzene
Concen: 55.457 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 95 Resp: 59351

Ion	Ratio	Lower	Upper
95	100		
174	66.9	0.0	135.8
176	65.5	0.0	131.4



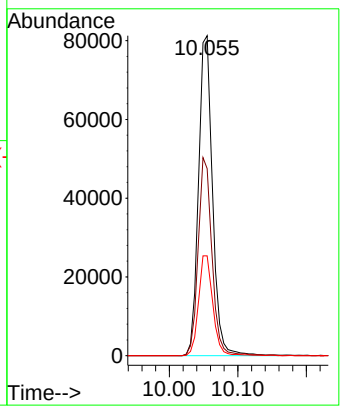


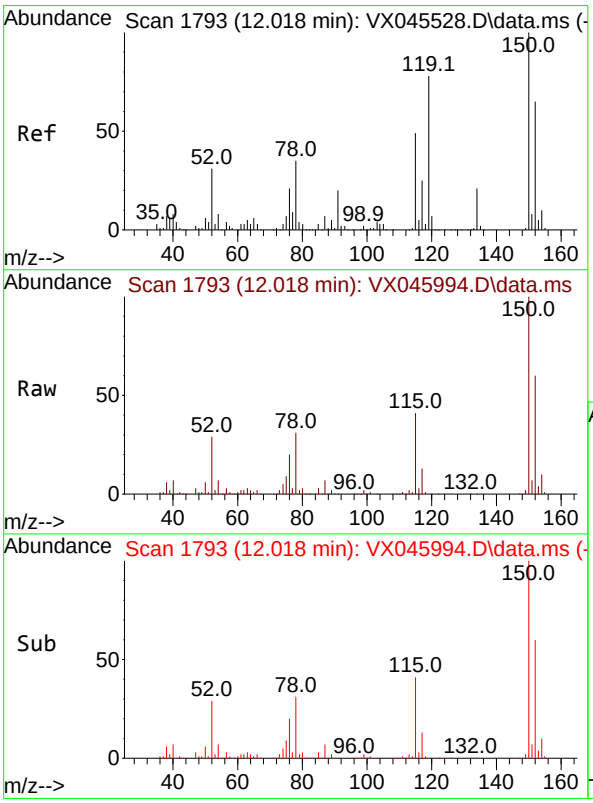
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion:117 Resp: 115892

Ion	Ratio	Lower	Upper
117	100		
82	58.5	49.2	73.8
119	31.2	25.1	37.7

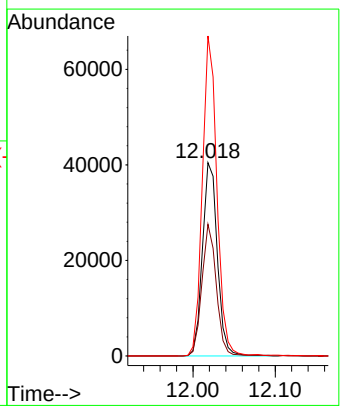




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion:152 Resp: 51062

Ion	Ratio	Lower	Upper
152	100		
115	65.8	46.9	140.7
150	161.2	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX046010.D
Acq On : 30 Apr 2025 19:57
Operator : JC/MD
Sample : Q1901-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Quant Time: May 01 03:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

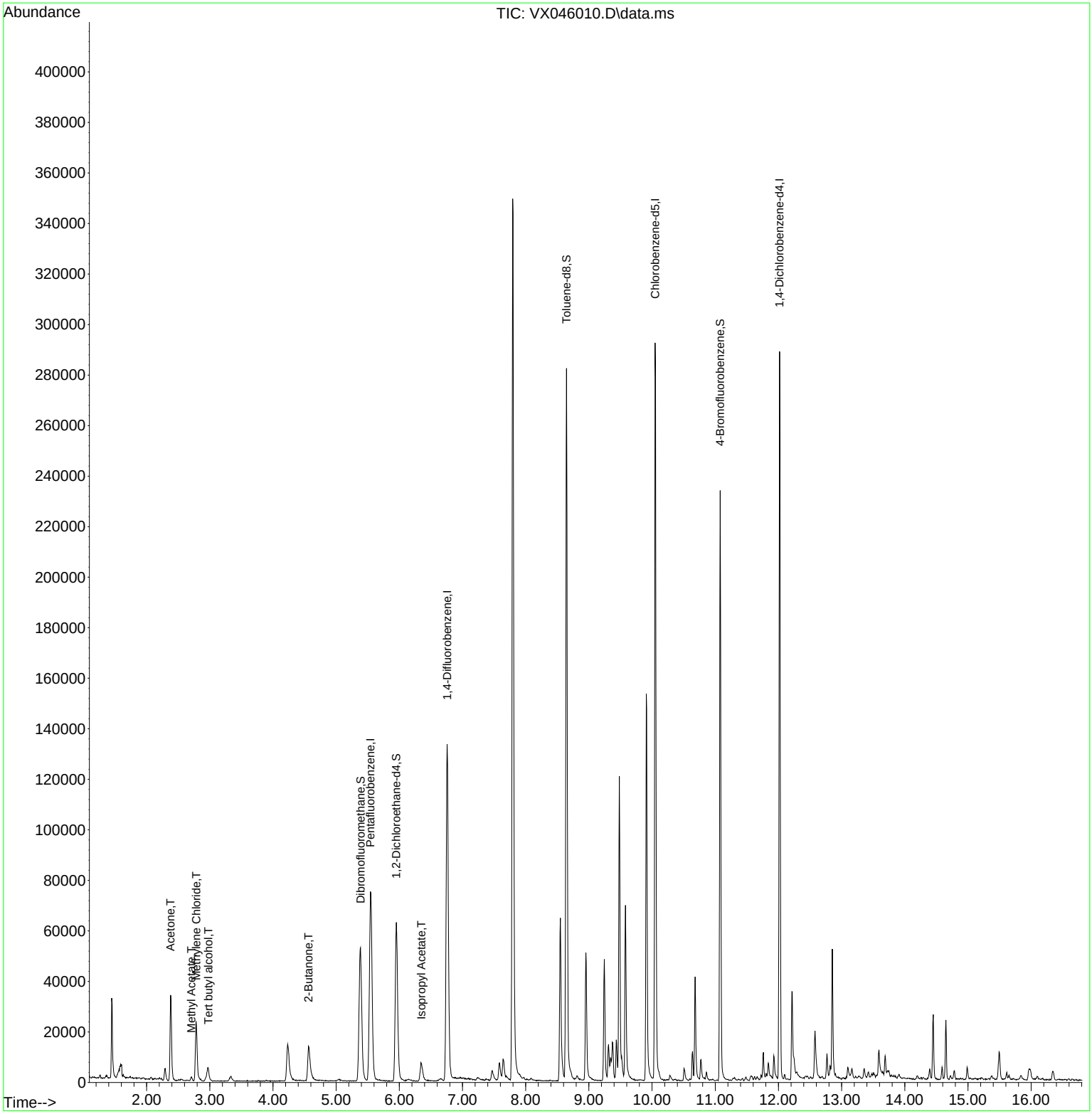
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64982	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127775	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51937	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64612	54.371	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.740%			
35) Dibromofluoromethane	5.385	113	45913	50.645	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.300%			
50) Toluene-d8	8.647	98	160014	50.569	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.140%			
62) 4-Bromofluorobenzene	11.079	95	62061	53.845	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.700%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.977	59	6244	39.097	ug/l	95
16) Acetone	2.380	43	36845	75.507	ug/l	97
18) Methyl Acetate	2.709	43	1957	1.742	ug/l	94
20) Methylene Chloride	2.788	84	10717	11.731	ug/l	97
25) 2-Butanone	4.562	43	26175	36.645	ug/l	95
43) Isopropyl Acetate	6.348	43	11261	4.817	ug/l #	92

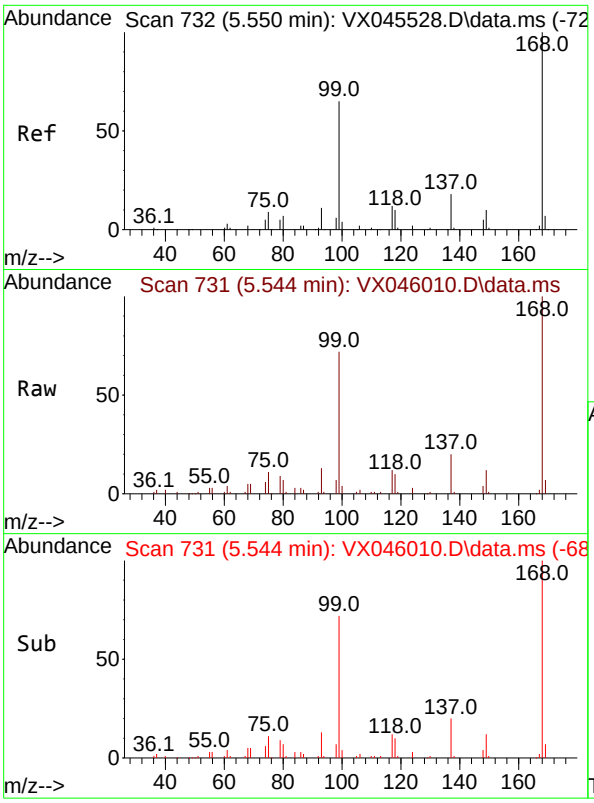
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX046010.D
Acq On : 30 Apr 2025 19:57
Operator : JC/MD
Sample : Q1901-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Quant Time: May 01 03:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



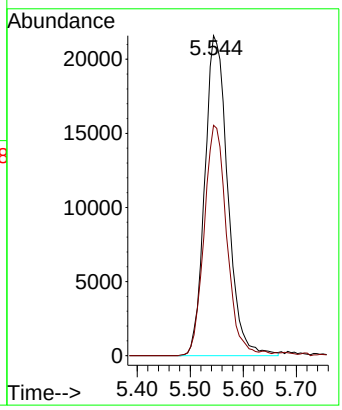


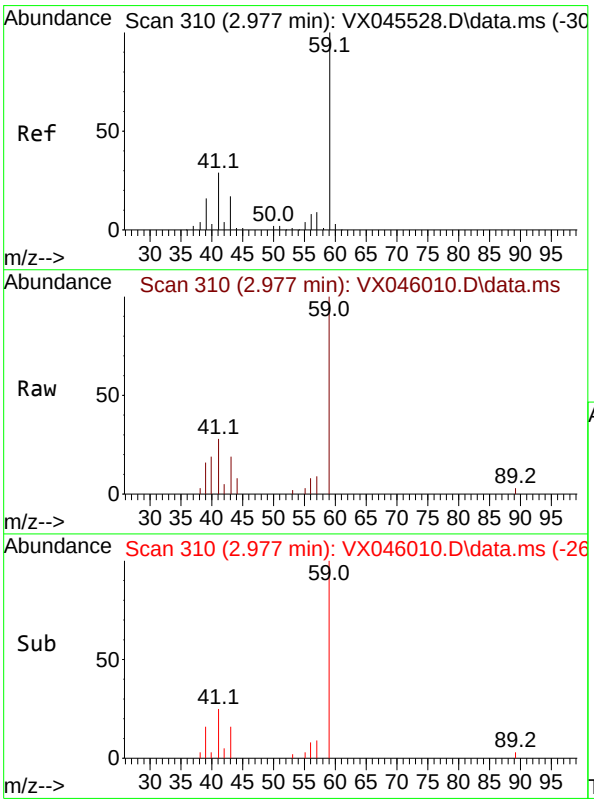
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion:168 Resp: 64982

Ion	Ratio	Lower	Upper
168	100		
99	72.0	52.3	78.5

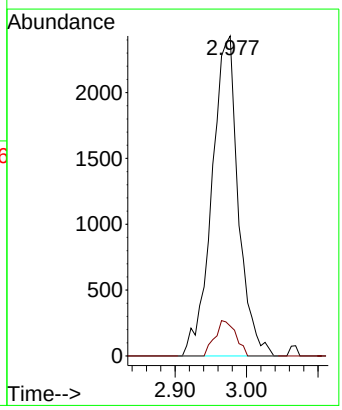


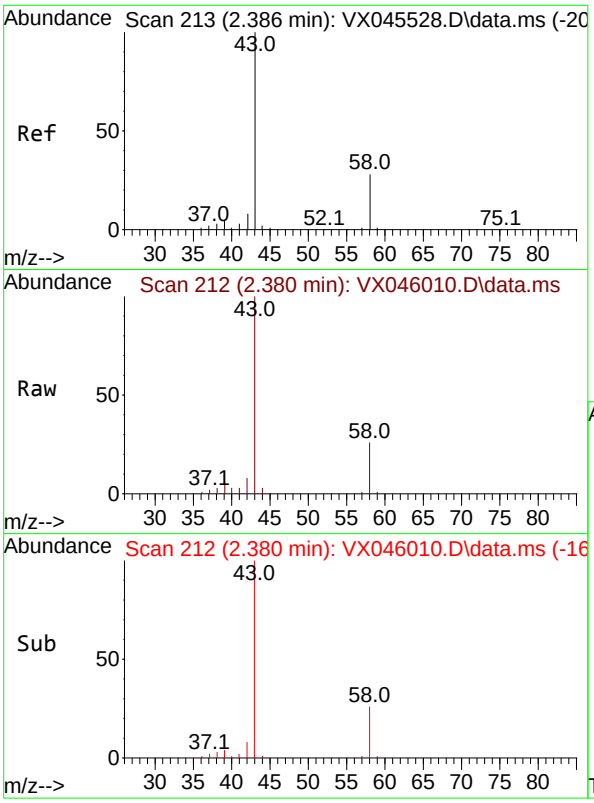


#11
Tert butyl alcohol
Concen: 39.097 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion: 59 Resp: 6244

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.6	12.8



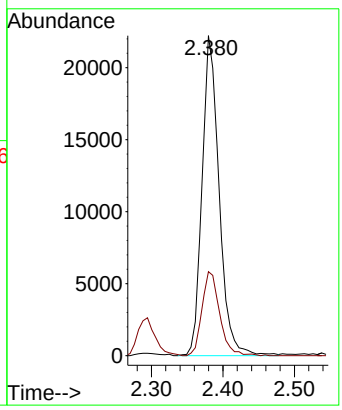


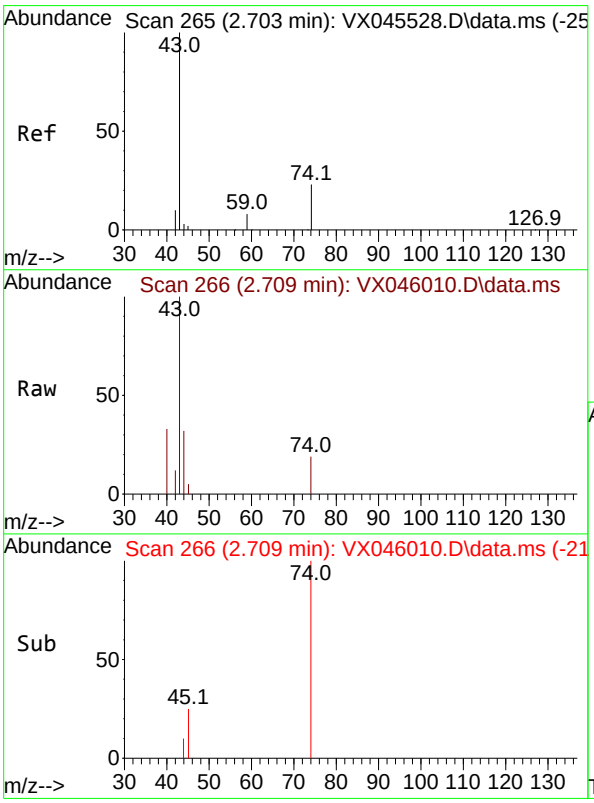
#16
Acetone
Concen: 75.507 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion: 43 Resp: 36845

Ion	Ratio	Lower	Upper
43	100		
58	26.3	22.3	33.5

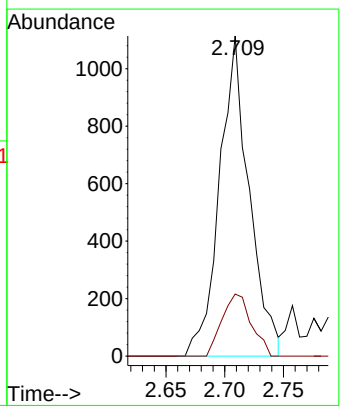


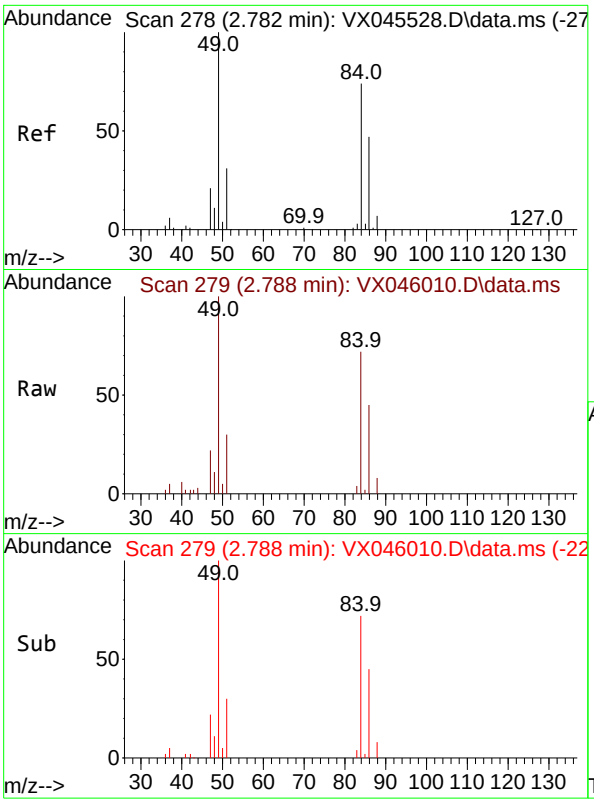


#18
Methyl Acetate
Concen: 1.742 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion: 43 Resp: 1957

Ion	Ratio	Lower	Upper
43	100		
74	19.1	17.5	26.3



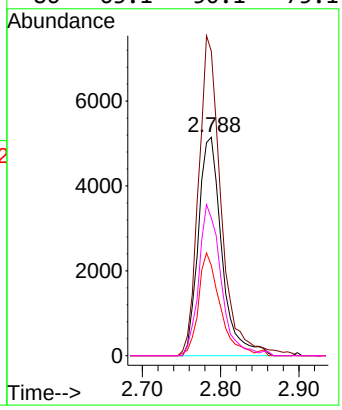


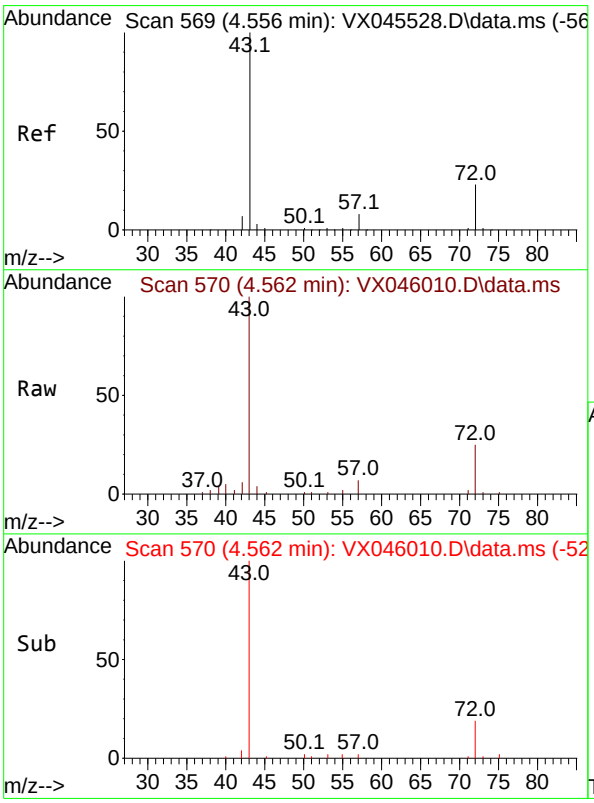
#20
Methylene Chloride
Concen: 11.731 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion: 84 Resp: 10717

Ion	Ratio	Lower	Upper
84	100		
49	139.4	107.5	161.3
51	41.4	33.0	49.6
86	63.1	50.1	75.1

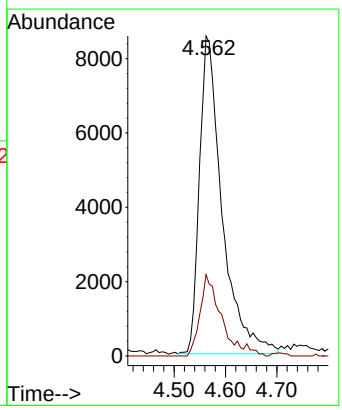


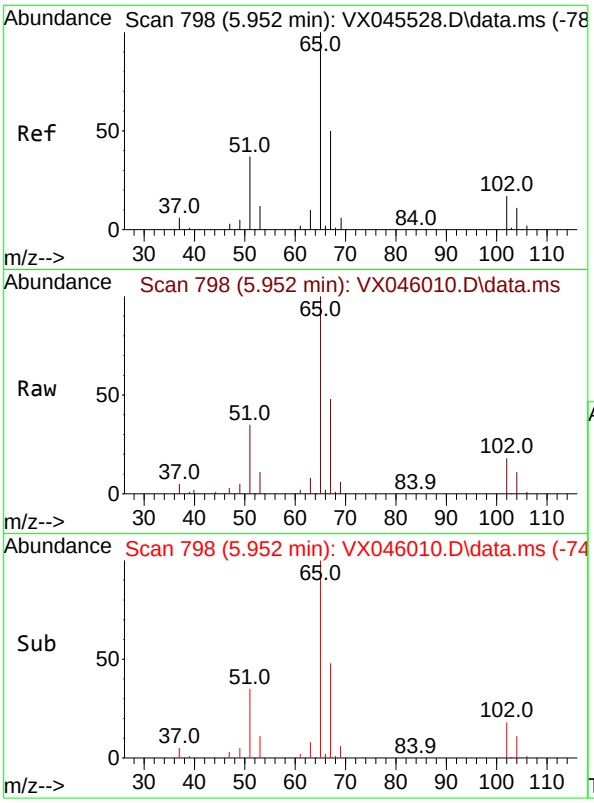


#25
2-Butanone
Concen: 36.645 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion: 43 Resp: 26175

Ion	Ratio	Lower	Upper
43	100		
72	25.6	18.6	28.0



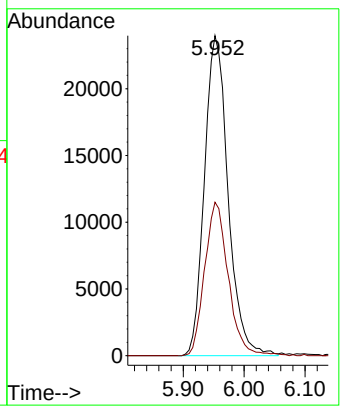


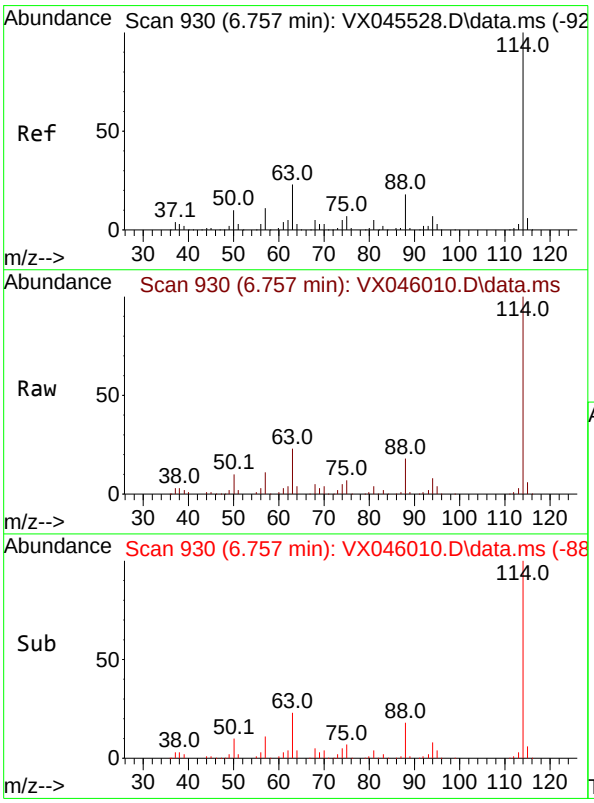
#33
1,2-Dichloroethane-d4
Concen: 54.371 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion: 65 Resp: 64612

Ion	Ratio	Lower	Upper
65	100		
67	47.9	0.0	99.0

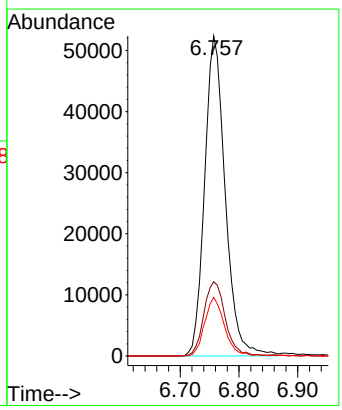


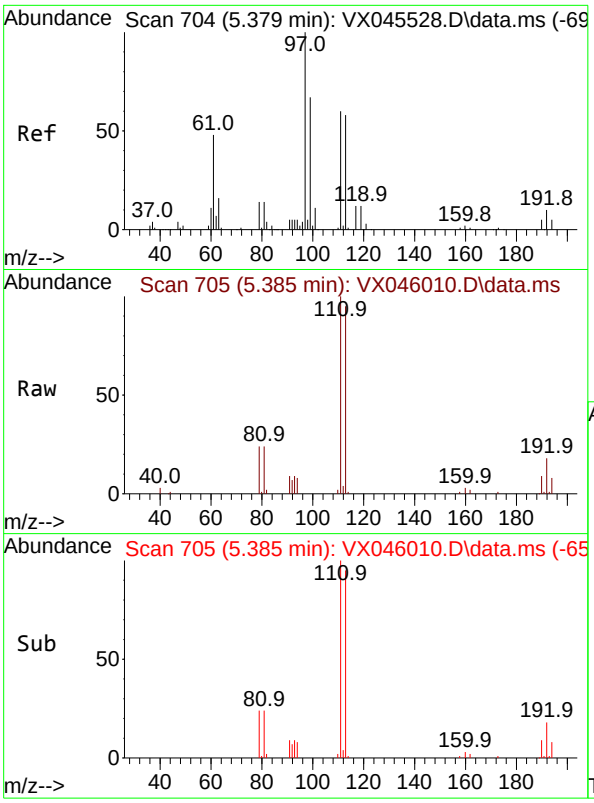


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion:114 Resp: 127775

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	46.8
88	18.3	0.0	35.4



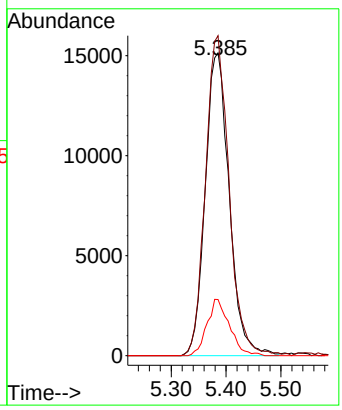


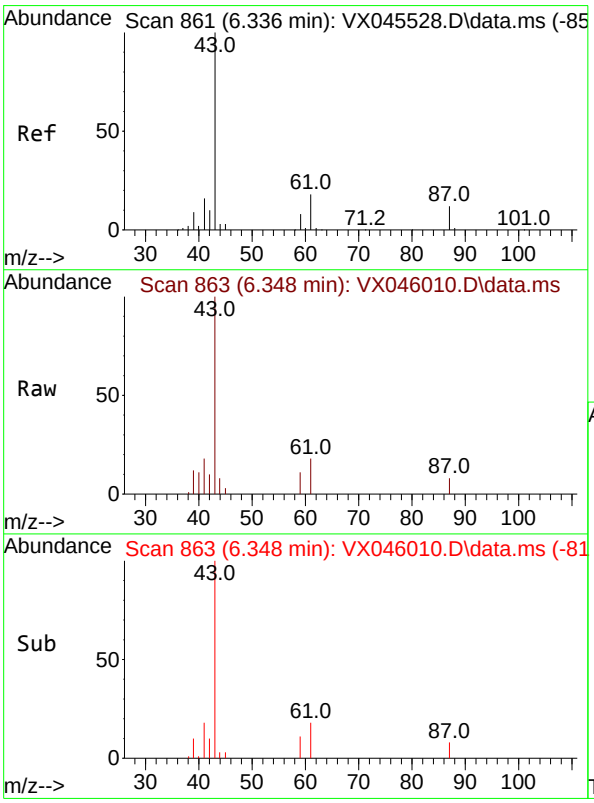
#35
Dibromofluoromethane
Concen: 50.645 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion:113 Resp: 45913

Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.8	122.6
192	17.5	13.8	20.6

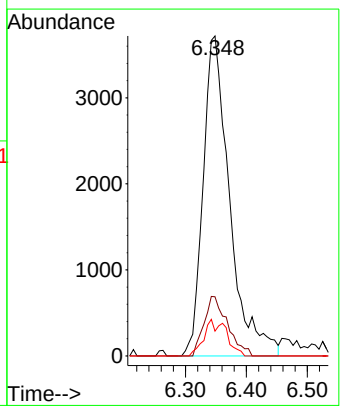


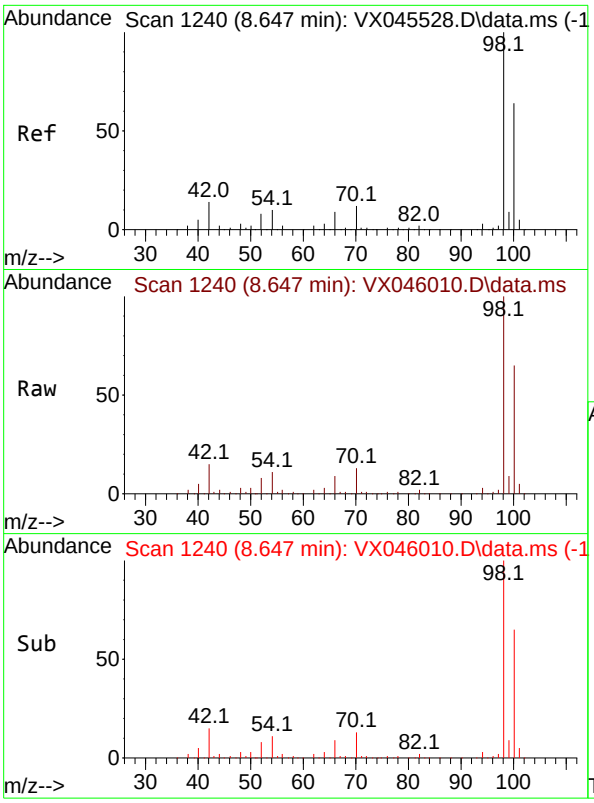


#43
Isopropyl Acetate
Concen: 4.817 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.012 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion: 43 Resp: 11261

Ion	Ratio	Lower	Upper
43	100		
61	16.5	14.1	21.1
87	5.0	9.2	13.8#



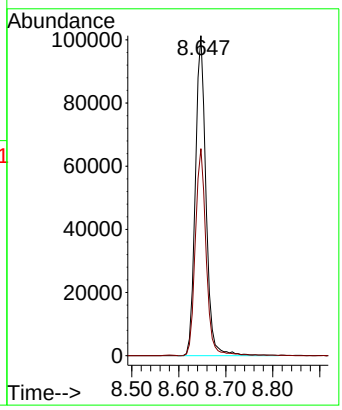


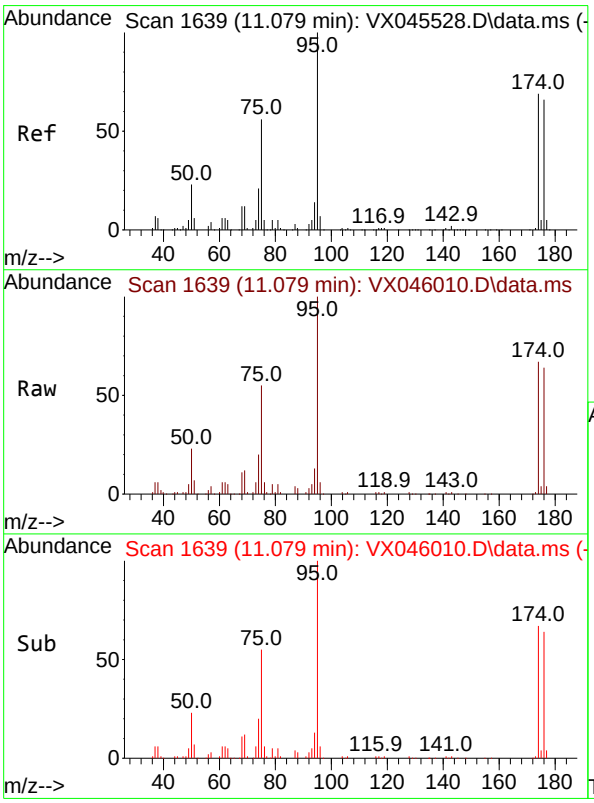
#50
Toluene-d8
Concen: 50.569 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion: 98 Resp: 160014

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.2	78.4

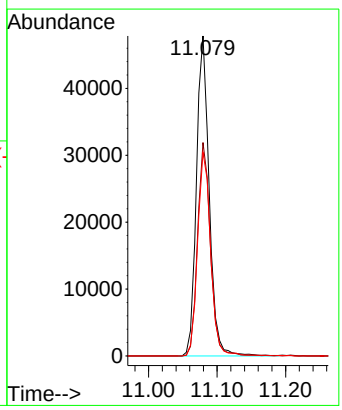


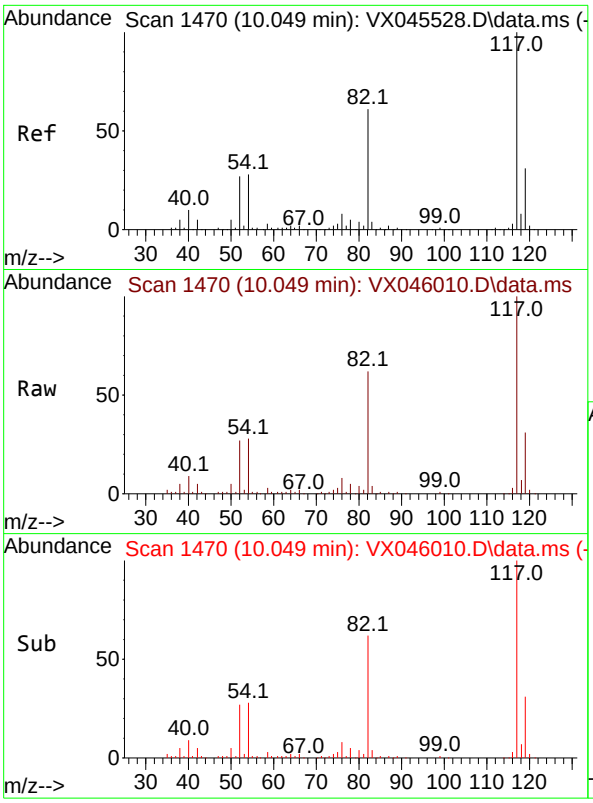


#62
4-Bromofluorobenzene
Concen: 53.845 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion: 95 Resp: 62061

Ion	Ratio	Lower	Upper
95	100		
174	67.3	0.0	135.8
176	65.2	0.0	131.4



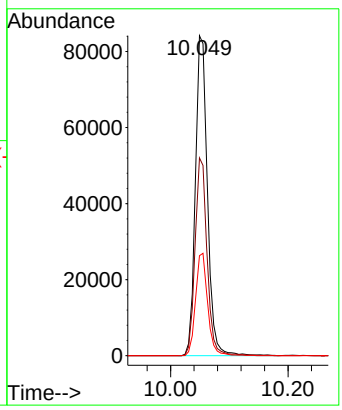


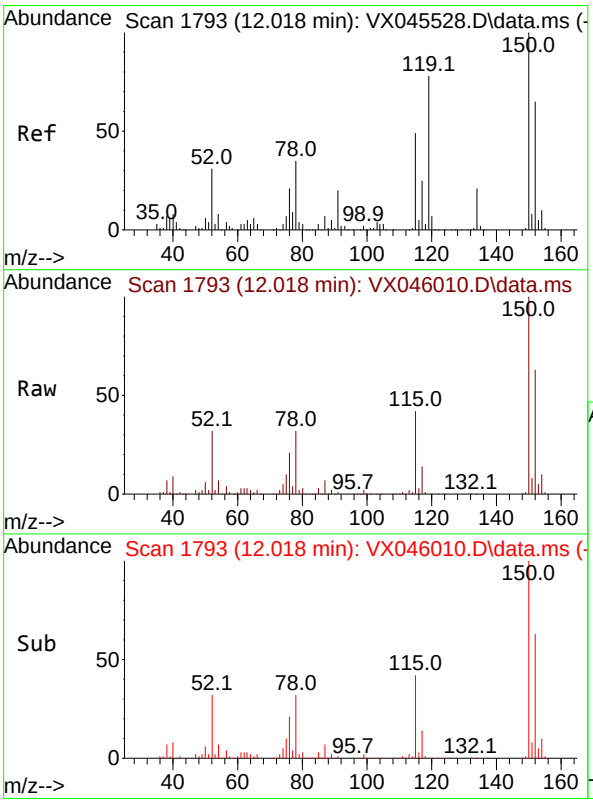
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Tgt Ion:117 Resp: 119826

Ion	Ratio	Lower	Upper
117	100		
82	61.8	49.2	73.8
119	31.3	25.1	37.7

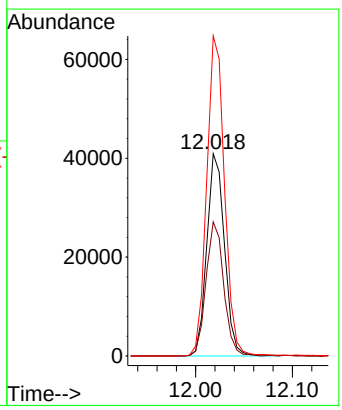




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion:152 Resp: 51937

Ion	Ratio	Lower	Upper
152	100		
115	66.3	46.9	140.7
150	159.1	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045987.D
Acq On : 30 Apr 2025 10:55
Operator : JC/MD
Sample : VX0430WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Quant Time: May 01 03:35:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	62274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	125239	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116463	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49781	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64126	56.309	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.620%			
35) Dibromofluoromethane	5.379	113	46693	52.548	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.100%			
50) Toluene-d8	8.647	98	156289	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	58679	51.942	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.880%			

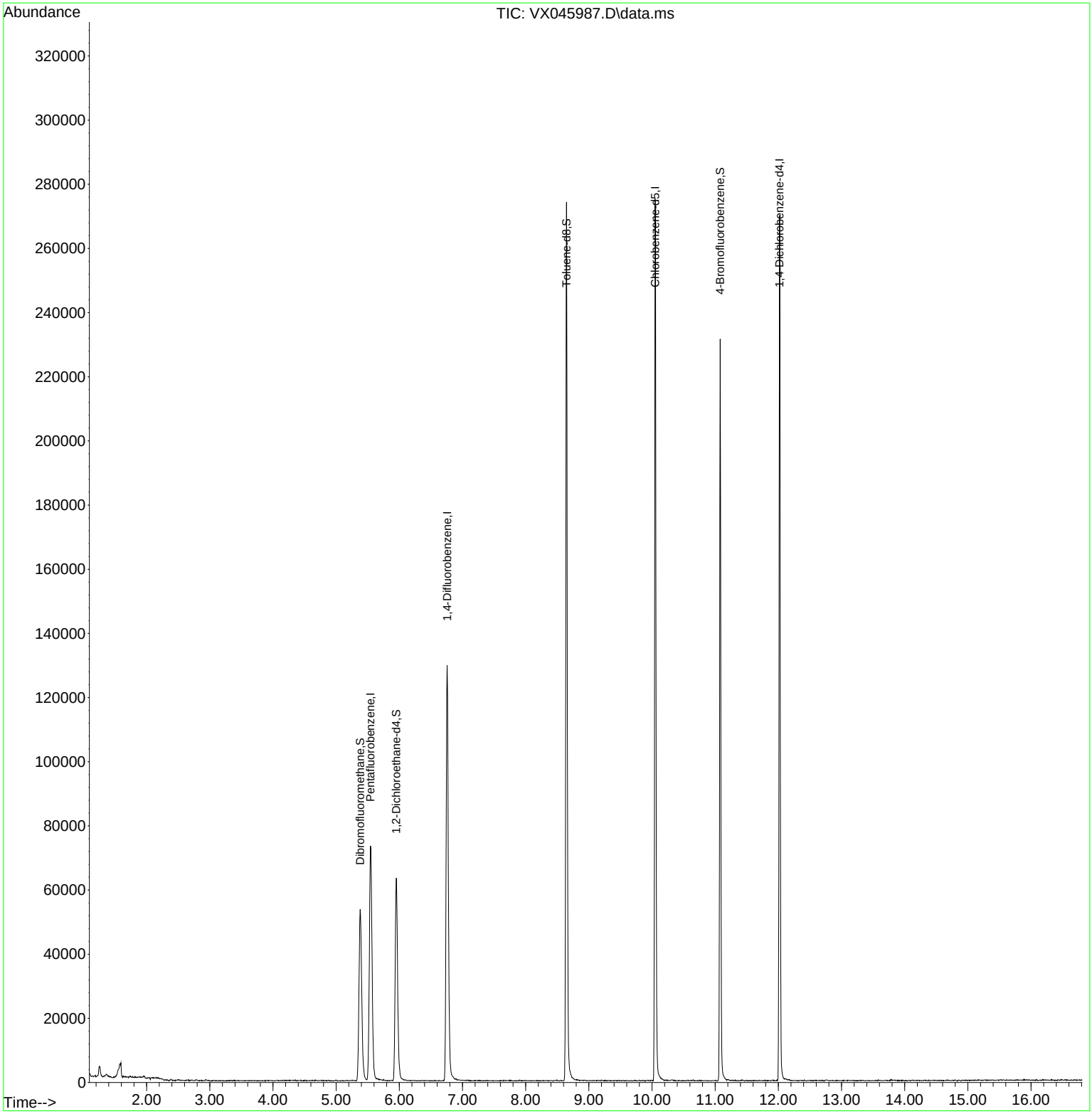
Target Compounds Qvalue

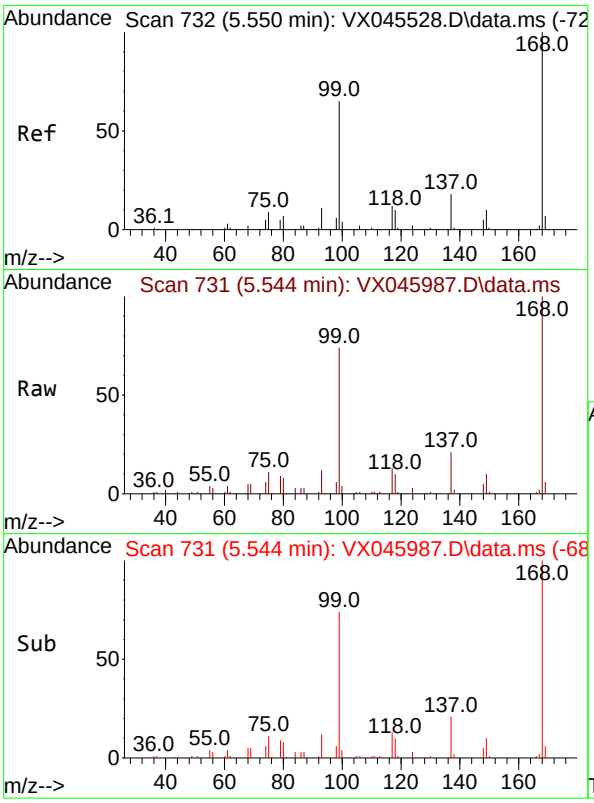
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045987.D
Acq On : 30 Apr 2025 10:55
Operator : JC/MD
Sample : VX0430WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Quant Time: May 01 03:35:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



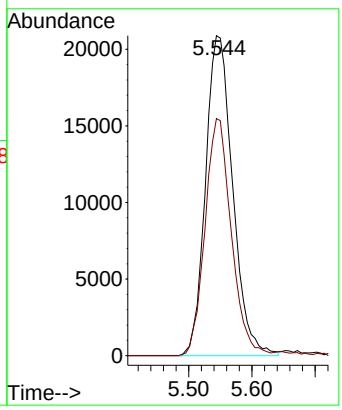


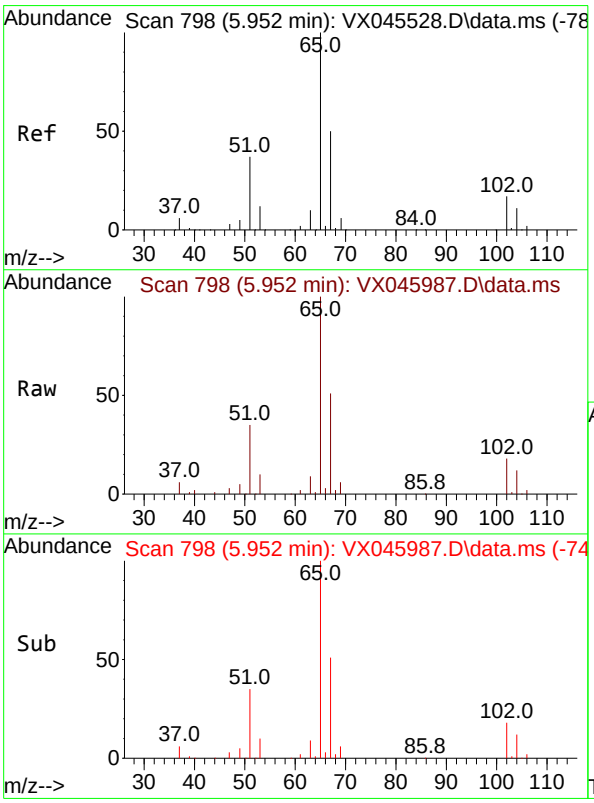
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Tgt Ion:168 Resp: 62274

Ion	Ratio	Lower	Upper
168	100		
99	74.1	52.3	78.5

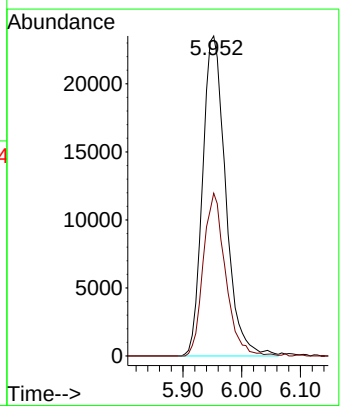


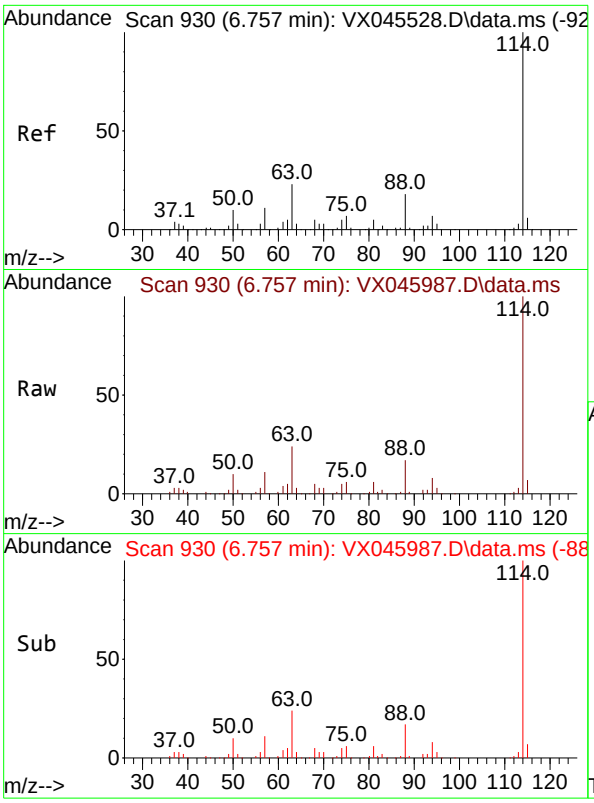


#33
1,2-Dichloroethane-d4
Concen: 56.309 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Tgt Ion: 65 Resp: 64126

Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	99.0



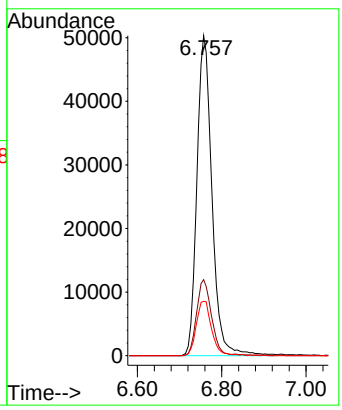


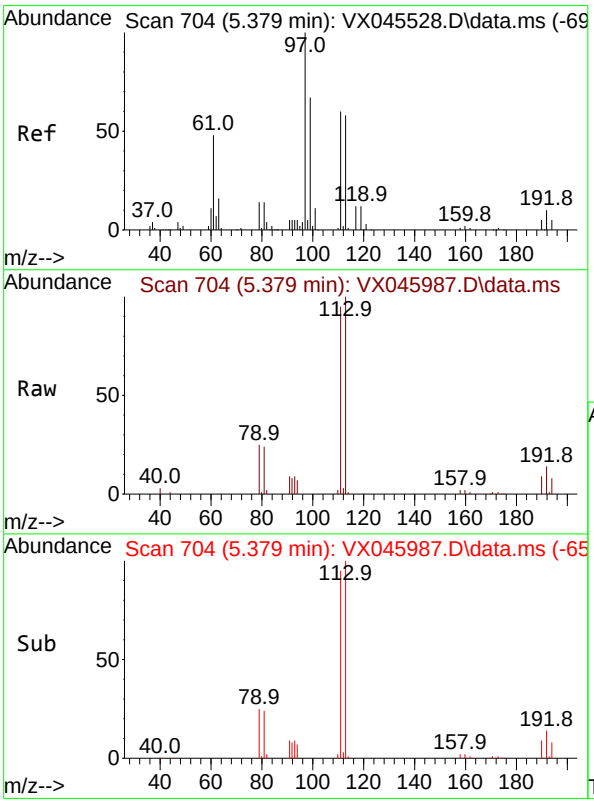
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Tgt Ion:114 Resp: 125239

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	46.8
88	17.0	0.0	35.4

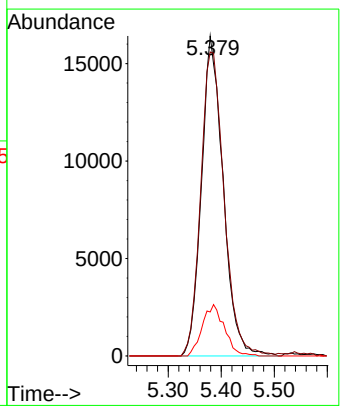


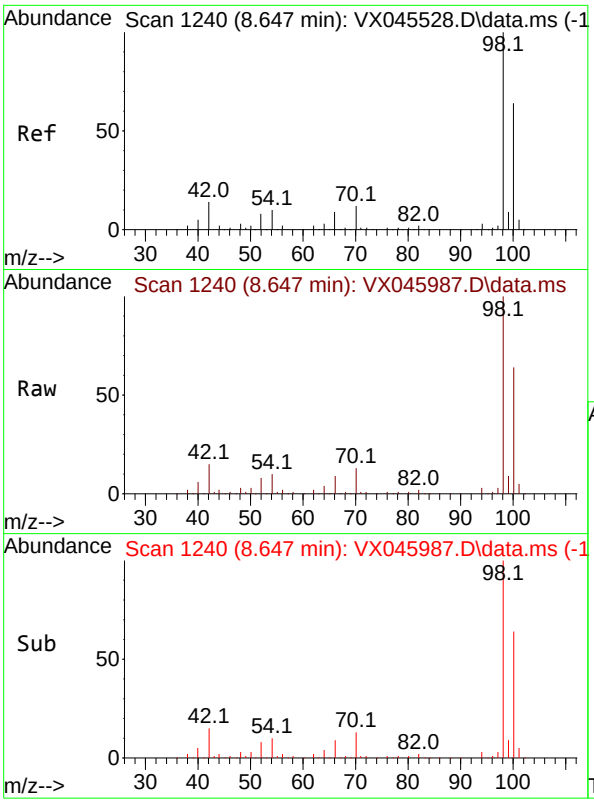


#35
Dibromofluoromethane
Concen: 52.548 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Tgt Ion:113 Resp: 46693

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.6
192	16.4	13.8	20.6



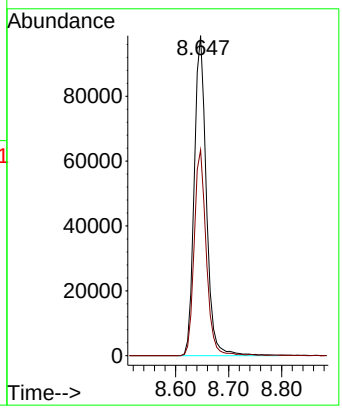


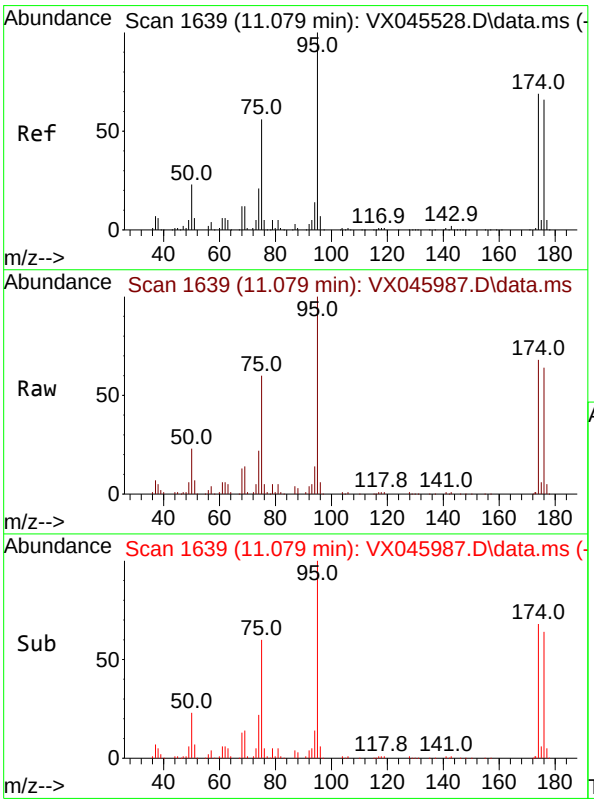
#50
Toluene-d8
Concen: 50.392 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Tgt Ion: 98 Resp: 156289

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.4

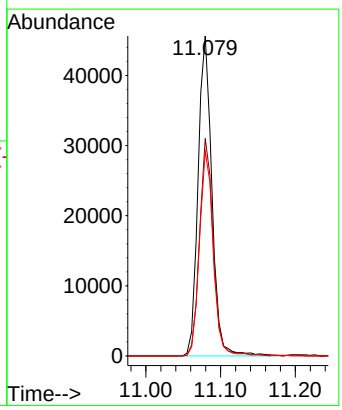


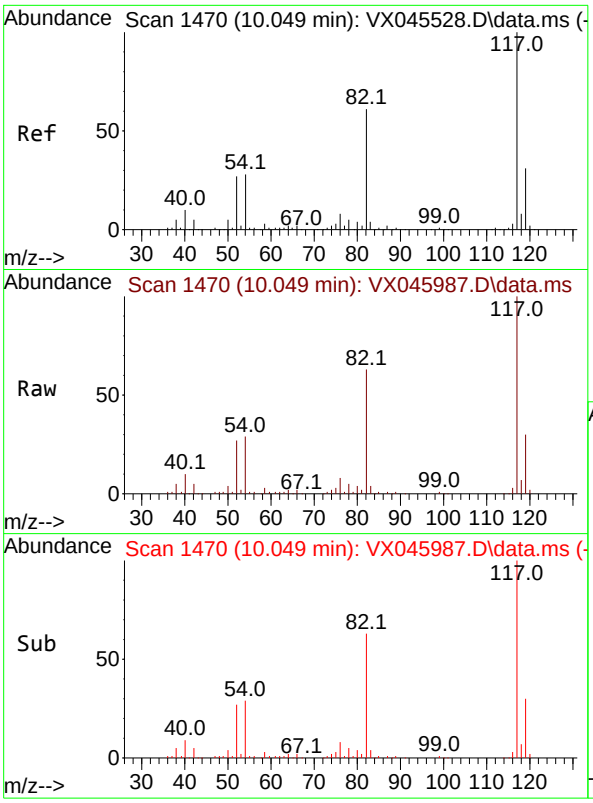


#62
4-Bromofluorobenzene
Concen: 51.942 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Tgt Ion: 95 Resp: 58679

Ion	Ratio	Lower	Upper
95	100		
174	67.6	0.0	135.8
176	63.7	0.0	131.4



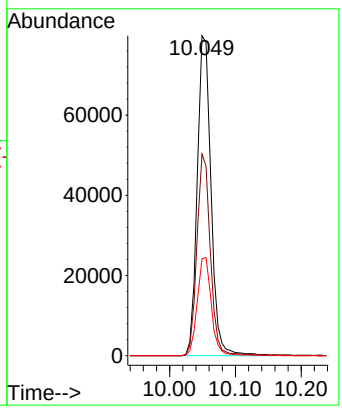


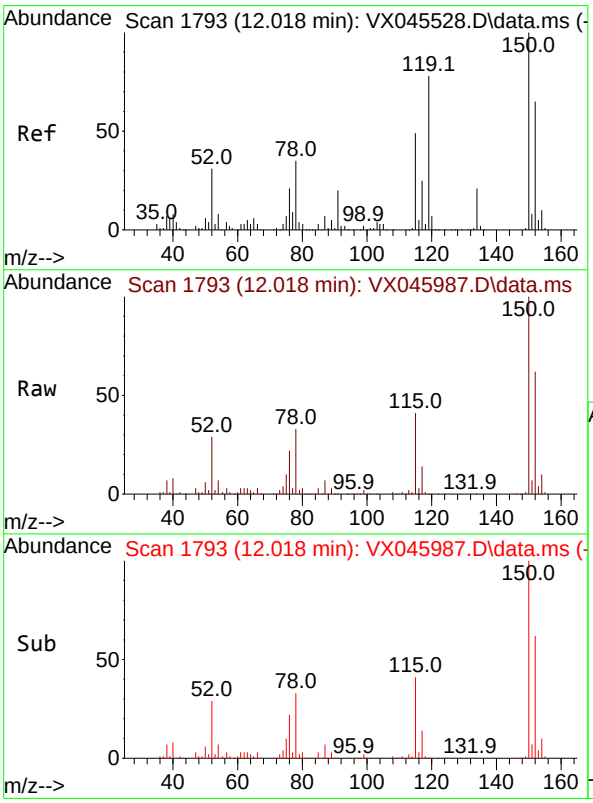
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Tgt Ion:117 Resp: 116463

Ion	Ratio	Lower	Upper
117	100		
82	63.0	49.2	73.8
119	30.3	25.1	37.7

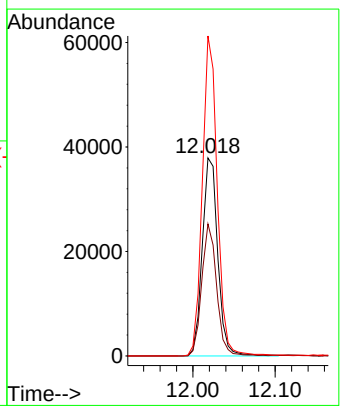




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045987.D
Acq: 30 Apr 2025 10:55

Tgt Ion:152 Resp: 49781

Ion	Ratio	Lower	Upper
152	100		
115	63.9	46.9	140.7
150	155.8	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045988.D
Acq On : 30 Apr 2025 11:19
Operator : JC/MD
Sample : VX0430WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 03:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	79591	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	138531	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58135	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	79431	54.573	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.140%			
35) Dibromofluoromethane	5.379	113	55572	56.540	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.080%			
50) Toluene-d8	8.647	98	178715	52.094	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.180%			
62) 4-Bromofluorobenzene	11.079	95	69575	55.677	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	20655	17.353	ug/l	98
3) Chloromethane	1.307	50	20162	16.488	ug/l	98
4) Vinyl Chloride	1.374	62	19329	17.272	ug/l	97
5) Bromomethane	1.593	94	9557	18.011	ug/l	99
6) Chloroethane	1.672	64	11560	19.470	ug/l	98
7) Trichlorofluoromethane	1.874	101	33075	19.820	ug/l	98
8) Diethyl Ether	2.136	74	11018	19.666	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	19906	20.357	ug/l	98
10) Methyl Iodide	2.447	142	22014	18.049	ug/l	95
11) Tert butyl alcohol	2.977	59	23070	117.939	ug/l	100
12) 1,1-Dichloroethene	2.313	96	17690	18.514	ug/l	97
13) Acrolein	2.233	56	24514	91.006	ug/l	100
14) Allyl chloride	2.654	41	36647	20.214	ug/l	98
15) Acrylonitrile	3.062	53	67478	109.282	ug/l	99
16) Acetone	2.386	43	65143	108.994	ug/l	100
17) Carbon Disulfide	2.502	76	31903	13.519	ug/l	98
18) Methyl Acetate	2.703	43	41651	30.268	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	71425	21.369	ug/l	98
20) Methylene Chloride	2.782	84	22667	20.258	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	18566	19.019	ug/l	95
22) Diisopropyl ether	3.757	45	74999	21.001	ug/l #	85
23) Vinyl Acetate	3.721	43	305569	99.034	ug/l	98
24) 1,1-Dichloroethane	3.605	63	41234	20.416	ug/l	98
25) 2-Butanone	4.556	43	98463	112.545	ug/l	99
26) 2,2-Dichloropropane	4.471	77	30457	23.341	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	24129	20.289	ug/l	98
28) Bromochloromethane	4.897	49	21912	22.451	ug/l	98
29) Tetrahydrofuran	5.007	42	59403	104.729	ug/l	98
30) Chloroform	5.086	83	44895	21.603	ug/l	98
31) Cyclohexane	5.464	56	31971	17.906	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	37155	21.129	ug/l	99
36) 1,1-Dichloropropene	5.684	75	26313	19.828	ug/l	99
37) Ethyl Acetate	4.721	43	35233	21.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	31212	21.762	ug/l	98
39) Methylcyclohexane	7.379	83	31558	19.400	ug/l	96
40) Benzene	6.031	78	81782	20.178	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045988.D
Acq On : 30 Apr 2025 11:19
Operator : JC/MD
Sample : VX0430WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 03:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21012	23.812	ug/l		97
42) 1,2-Dichloroethane	6.086	62	38214	22.828	ug/l		100
43) Isopropyl Acetate	6.342	43	55624	21.945	ug/l		99
44) Trichloroethene	7.123	130	19172	19.902	ug/l		100
45) 1,2-Dichloropropane	7.428	63	22110	21.864	ug/l		95
46) Dibromomethane	7.580	93	16648	21.445	ug/l		97
47) Bromodichloromethane	7.818	83	34537	22.278	ug/l		98
48) Methyl methacrylate	7.696	41	28745	21.964	ug/l		98
49) 1,4-Dioxane	7.659	88	11623	490.868	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	198681	118.239	ug/l		99
52) Toluene	8.714	92	49625	20.234	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	27493	19.886	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	31316	21.496	ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	21829	22.336	ug/l		96
56) Ethyl methacrylate	9.116	69	33224	21.967	ug/l		99
57) 1,3-Dichloropropane	9.305	76	37096	21.798	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	82278	107.537	ug/l		100
59) 2-Hexanone	9.427	43	145801	117.173	ug/l		97
60) Dibromochloromethane	9.519	129	23829	22.366	ug/l		97
61) 1,2-Dibromoethane	9.610	107	21647	21.881	ug/l		99
64) Tetrachloroethene	9.269	164	16523	19.003	ug/l		97
65) Chlorobenzene	10.079	112	56077	21.309	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	19738	21.604	ug/l		99
67) Ethyl Benzene	10.189	91	97246	20.633	ug/l		99
68) m/p-Xylenes	10.299	106	72902	42.527	ug/l		98
69) o-Xylene	10.640	106	35400	20.963	ug/l		97
70) Styrene	10.653	104	59894	21.489	ug/l		99
71) Bromoform	10.799	173	14723	21.582	ug/l	#	97
73) Isopropylbenzene	10.957	105	96591	20.743	ug/l		99
74) N-amyl acetate	10.842	43	46784	21.003	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	36005	22.010	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	30299m	21.367	ug/l		
77) Bromobenzene	11.195	156	22344	20.767	ug/l		97
78) n-propylbenzene	11.305	91	109148	20.349	ug/l		100
79) 2-Chlorotoluene	11.360	91	70063	20.433	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	81280	21.108	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8077	19.331	ug/l		93
82) 4-Chlorotoluene	11.451	91	78533	20.541	ug/l		99
83) tert-Butylbenzene	11.713	119	80806	21.196	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	80186	20.747	ug/l		100
85) sec-Butylbenzene	11.890	105	99095	21.163	ug/l		100
86) p-Isopropyltoluene	12.006	119	80817	20.935	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	39864	20.354	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	39715	20.002	ug/l		97
89) n-Butylbenzene	12.329	91	67323	20.111	ug/l		99
90) Hexachloroethane	12.536	117	15013	22.629	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	41948	21.543	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8244	24.098	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	21969	20.269	ug/l		99
94) Hexachlorobutadiene	13.725	225	9928	21.256	ug/l		98
95) Naphthalene	13.774	128	82567	20.470	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	23750	20.926	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045988.D
Acq On : 30 Apr 2025 11:19
Operator : JC/MD
Sample : VX0430WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 03:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

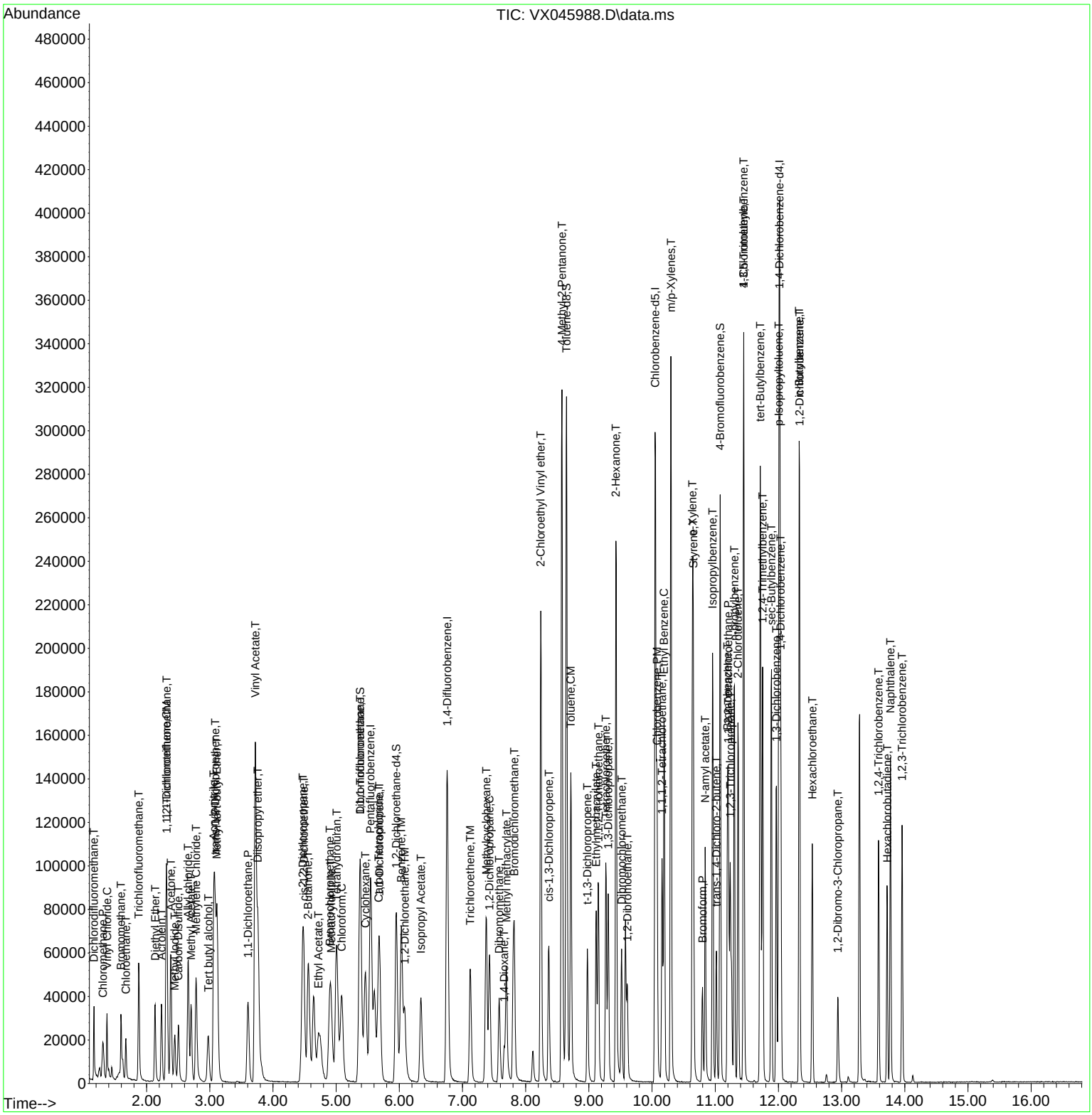
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045988.D
Acq On : 30 Apr 2025 11:19
Operator : JC/MD
Sample : VX0430WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 03:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045989.D
Acq On : 30 Apr 2025 11:46
Operator : JC/MD
Sample : VX0430WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 03:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	77091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	132529	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119517	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	76548	54.297	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.600%			
35) Dibromofluoromethane	5.373	113	53152	56.527	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.060%			
50) Toluene-d8	8.647	98	170578	51.974	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.940%			
62) 4-Bromofluorobenzene	11.079	95	67546	56.502	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19802	17.176	ug/l	100
3) Chloromethane	1.313	50	19172	16.187	ug/l	99
4) Vinyl Chloride	1.374	62	18020	16.625	ug/l	98
5) Bromomethane	1.593	94	8899	17.315	ug/l	90
6) Chloroethane	1.672	64	11286	19.625	ug/l	97
7) Trichlorofluoromethane	1.874	101	31149	19.271	ug/l	99
8) Diethyl Ether	2.130	74	10936	20.153	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	19835	20.942	ug/l	95
10) Methyl Iodide	2.441	142	21014	17.788	ug/l	96
11) Tert butyl alcohol	2.971	59	23847	125.865	ug/l	99
12) 1,1-Dichloroethene	2.313	96	17147	18.528	ug/l	99
13) Acrolein	2.239	56	24855	95.264	ug/l	99
14) Allyl chloride	2.654	41	35280	20.091	ug/l	98
15) Acrylonitrile	3.062	53	68503	114.540	ug/l	99
16) Acetone	2.380	43	64597	111.586	ug/l	99
17) Carbon Disulfide	2.502	76	30965	13.547	ug/l	97
18) Methyl Acetate	2.703	43	41923	31.454	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	70251	21.699	ug/l	98
20) Methylene Chloride	2.782	84	21419	19.763	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	17388	18.390	ug/l	100
22) Diisopropyl ether	3.757	45	73121	21.139	ug/l #	86
23) Vinyl Acetate	3.721	43	305094	102.087	ug/l	100
24) 1,1-Dichloroethane	3.605	63	39868	20.380	ug/l	99
25) 2-Butanone	4.556	43	99066	116.907	ug/l	99
26) 2,2-Dichloropropane	4.465	77	28118	22.247	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	22576	19.599	ug/l	96
28) Bromochloromethane	4.885	49	21046	22.263	ug/l	98
29) Tetrahydrofuran	5.007	42	61153	111.310	ug/l	99
30) Chloroform	5.093	83	42259	20.994	ug/l	97
31) Cyclohexane	5.464	56	30753	17.783	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	35070	20.590	ug/l	99
36) 1,1-Dichloropropene	5.684	75	24998	19.690	ug/l	98
37) Ethyl Acetate	4.715	43	36276	22.673	ug/l	100
38) Carbon Tetrachloride	5.672	117	29859	21.761	ug/l	95
39) Methylcyclohexane	7.373	83	30124	19.357	ug/l	97
40) Benzene	6.031	78	78100	20.142	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045989.D
Acq On : 30 Apr 2025 11:46
Operator : JC/MD
Sample : VX0430WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 03:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	20886	24.741	ug/l		99
42) 1,2-Dichloroethane	6.080	62	36192	22.599	ug/l		100
43) Isopropyl Acetate	6.336	43	55432	22.859	ug/l		99
44) Trichloroethene	7.123	130	18593	20.175	ug/l		98
45) 1,2-Dichloropropane	7.427	63	20323	21.007	ug/l		100
46) Dibromomethane	7.580	93	16754	22.559	ug/l		98
47) Bromodichloromethane	7.818	83	32842	22.144	ug/l		96
48) Methyl methacrylate	7.696	41	29705	23.725	ug/l		95
49) 1,4-Dioxane	7.659	88	11882	524.532	ug/l		97
51) 4-Methyl-2-Pentanone	8.568	43	200655	124.822	ug/l		99
52) Toluene	8.714	92	48144	20.520	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	27195	20.484	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	30656	21.995	ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	21327	22.811	ug/l		96
56) Ethyl methacrylate	9.116	69	33367	23.060	ug/l		98
57) 1,3-Dichloropropane	9.305	76	37428	22.989	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	82443	112.632	ug/l		99
59) 2-Hexanone	9.427	43	148985	125.154	ug/l		99
60) Dibromochloromethane	9.519	129	23601	23.155	ug/l		97
61) 1,2-Dibromoethane	9.610	107	21044	22.235	ug/l		99
64) Tetrachloroethene	9.269	164	16952	20.089	ug/l		94
65) Chlorobenzene	10.079	112	53134	20.805	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	19451	21.937	ug/l		100
67) Ethyl Benzene	10.189	91	94433	20.646	ug/l		100
68) m/p-Xylenes	10.299	106	68936	41.438	ug/l		99
69) o-Xylene	10.640	106	34475	21.036	ug/l		97
70) Styrene	10.652	104	58136	21.493	ug/l		99
71) Bromoform	10.799	173	14163	21.393	ug/l	#	96
73) Isopropylbenzene	10.957	105	93397	20.114	ug/l		99
74) N-amyl acetate	10.841	43	46998	21.159	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	35853	21.980	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	30347m	21.461	ug/l		
77) Bromobenzene	11.195	156	21288	19.842	ug/l		100
78) n-propylbenzene	11.299	91	105745	19.771	ug/l		100
79) 2-Chlorotoluene	11.360	91	67959	19.875	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	78107	20.342	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8046	19.312	ug/l		94
82) 4-Chlorotoluene	11.451	91	77828	20.415	ug/l		100
83) tert-Butylbenzene	11.713	119	78473	20.643	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	79237	20.560	ug/l		98
85) sec-Butylbenzene	11.890	105	96175	20.598	ug/l		99
86) p-Isopropyltoluene	12.006	119	79550	20.666	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	40079	20.522	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	40092	20.249	ug/l		97
89) n-Butylbenzene	12.329	91	67485	20.217	ug/l		99
90) Hexachloroethane	12.536	117	13797	20.856	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	40561	20.890	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8302	24.336	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	22099	20.447	ug/l		98
94) Hexachlorobutadiene	13.725	225	9861	21.173	ug/l		97
95) Naphthalene	13.774	128	83334	20.719	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	23622	20.872	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045989.D
Acq On : 30 Apr 2025 11:46
Operator : JC/MD
Sample : VX0430WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 03:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

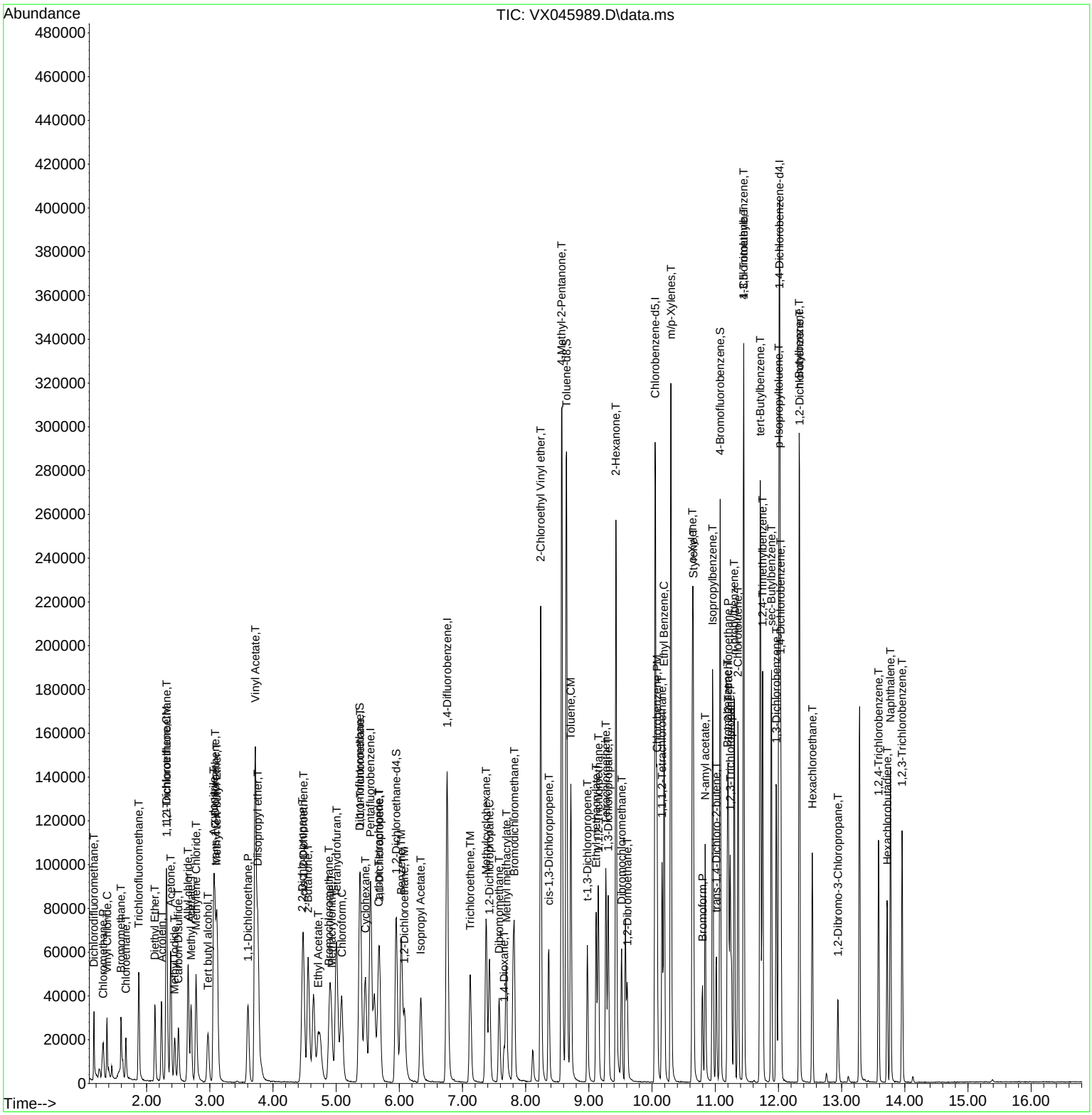
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045989.D
Acq On : 30 Apr 2025 11:46
Operator : JC/MD
Sample : VX0430WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 03:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025



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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	vx043025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045985.D	1,2,3-Trichloropropane	JOHN	5/2/2025 9:59:52 AM	sam	5/5/2025 4:28:28 AM	Peak Integrated by Software
VX0430WBS01	VX045988.D	1,2,3-Trichloropropane	JOHN	5/2/2025 9:59:57 AM	sam	5/5/2025 4:28:33 AM	Peak Integrated by Software
VX0430WBSD01	VX045989.D	1,2,3-Trichloropropane	JOHN	5/2/2025 10:00:03 AM	sam	5/5/2025 4:28:37 AM	Peak Integrated by Software
VSTDCCC050	VX046011.D	1,2,3-Trichloropropane	JOHN	5/2/2025 10:00:27 AM	sam	5/5/2025 4:28:48 AM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM		
SubDirectory	VX043025	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133790
Initial Calibration Stds	
CCC	VP133791,VP133792
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045984.D	30 Apr 2025 09:32	JC/MD	Ok
2	VSTDCCC050	VX045985.D	30 Apr 2025 10:01	JC/MD	Ok,M
3	VX0430MBL01	VX045986.D	30 Apr 2025 10:32	JC/MD	Ok
4	VX0430WBL01	VX045987.D	30 Apr 2025 10:55	JC/MD	Ok
5	VX0430WBS01	VX045988.D	30 Apr 2025 11:19	JC/MD	Ok,M
6	VX0430WBSD01	VX045989.D	30 Apr 2025 11:46	JC/MD	Ok,M
7	IBLK	VX045990.D	30 Apr 2025 12:09	JC/MD	Ok
8	Q1914-14	VX045991.D	30 Apr 2025 12:32	JC/MD	Ok
9	Q1904-02	VX045992.D	30 Apr 2025 12:56	JC/MD	Ok
10	Q1901-09	VX045993.D	30 Apr 2025 13:19	JC/MD	Ok
11	Q1901-10	VX045994.D	30 Apr 2025 13:42	JC/MD	Ok
12	Q1915-01	VX045995.D	30 Apr 2025 14:06	JC/MD	Ok
13	Q1901-08	VX045996.D	30 Apr 2025 14:29	JC/MD	Ok
14	Q1905-04	VX045997.D	30 Apr 2025 14:53	JC/MD	Ok
15	Q1905-08	VX045998.D	30 Apr 2025 15:16	JC/MD	Ok
16	Q1906-04	VX045999.D	30 Apr 2025 15:40	JC/MD	Ok
17	Q1906-08	VX046000.D	30 Apr 2025 16:03	JC/MD	Ok
18	Q1906-12	VX046001.D	30 Apr 2025 16:27	JC/MD	Ok
19	Q1906-16	VX046002.D	30 Apr 2025 16:50	JC/MD	Ok
20	Q1907-02	VX046003.D	30 Apr 2025 17:13	JC/MD	Ok,M
21	Q1912-04	VX046004.D	30 Apr 2025 17:37	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM		
SubDirectory	VX043025	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133790
Initial Calibration Stds	
CCC	VP133791,VP133792
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1912-08	VX046005.D	30 Apr 2025 18:00	JC/MD	Ok
23	Q1913-01	VX046006.D	30 Apr 2025 18:24	JC/MD	Ok
24	Q1913-03	VX046007.D	30 Apr 2025 18:47	JC/MD	Ok
25	Q1913-04	VX046008.D	30 Apr 2025 19:10	JC/MD	ReRun
26	Q1913-02	VX046009.D	30 Apr 2025 19:34	JC/MD	Ok
27	Q1901-11	VX046010.D	30 Apr 2025 19:57	JC/MD	Ok
28	VSTDCCC050	VX046011.D	30 Apr 2025 20:21	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER-	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER-	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM		
SubDirectory	VX043025	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133790
Initial Calibration Stds	
CCC	VP133791,VP133792
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045984.D	30 Apr 2025 09:32		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045985.D	30 Apr 2025 10:01	pH#Lot#V12668	JC/MD	Ok,M
3	VX0430MBL01	VX0430MBL01	VX045986.D	30 Apr 2025 10:32		JC/MD	Ok
4	VX0430WBL01	VX0430WBL01	VX045987.D	30 Apr 2025 10:55		JC/MD	Ok
5	VX0430WBS01	VX0430WBS01	VX045988.D	30 Apr 2025 11:19		JC/MD	Ok,M
6	VX0430WBSD01	VX0430WBSD01	VX045989.D	30 Apr 2025 11:46		JC/MD	Ok,M
7	IBLK	IBLK	VX045990.D	30 Apr 2025 12:09		JC/MD	Ok
8	Q1914-14	FB04282025	VX045991.D	30 Apr 2025 12:32	vial A pH<2 FB	JC/MD	Ok
9	Q1904-02	VNJ-210	VX045992.D	30 Apr 2025 12:56	vial A pH#5.0	JC/MD	Ok
10	Q1901-09	B-170-SB01	VX045993.D	30 Apr 2025 13:19	vial A pH#5.0	JC/MD	Ok
11	Q1901-10	B-167-SB02	VX045994.D	30 Apr 2025 13:42	vial A pH#5.0	JC/MD	Ok
12	Q1915-01	WC-04282025	VX045995.D	30 Apr 2025 14:06	vial A pH#5.0	JC/MD	Ok
13	Q1901-08	B-167-SB01	VX045996.D	30 Apr 2025 14:29	vial A pH#5.0	JC/MD	Ok
14	Q1905-04	MH-G	VX045997.D	30 Apr 2025 14:53	vial A pH#5.0	JC/MD	Ok
15	Q1905-08	MH-H	VX045998.D	30 Apr 2025 15:16	vial A pH#5.0	JC/MD	Ok
16	Q1906-04	WC-4	VX045999.D	30 Apr 2025 15:40	vial A pH#5.0	JC/MD	Ok
17	Q1906-08	WC-5	VX046000.D	30 Apr 2025 16:03	vial A pH#5.0	JC/MD	Ok
18	Q1906-12	WC-6	VX046001.D	30 Apr 2025 16:27	vial A pH#5.0	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM		
SubDirectory	VX043025	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133790
Initial Calibration Stds	
CCC	VP133791,VP133792
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1906-16	WC-7	VX046002.D	30 Apr 2025 16:50	vial A pH#5.0	JC/MD	Ok
20	Q1907-02	CO-8R-WC	VX046003.D	30 Apr 2025 17:13	vial A pH#5.0	JC/MD	Ok,M
21	Q1912-04	MH-E	VX046004.D	30 Apr 2025 17:37	vial A pH#5.0	JC/MD	Ok
22	Q1912-08	MH-F	VX046005.D	30 Apr 2025 18:00	vial A pH#5.0	JC/MD	Ok
23	Q1913-01	WC-12-S-202504	VX046006.D	30 Apr 2025 18:24	vial A pH#5.0	JC/MD	Ok
24	Q1913-03	WC-13-S-202504	VX046007.D	30 Apr 2025 18:47	vial A pH#5.0	JC/MD	Ok
25	Q1913-04	WC-13-A-202504	VX046008.D	30 Apr 2025 19:10	vial A pH#5.0 Surrogate Fail	JC/MD	ReRun
26	Q1913-02	WC-12-A-202504	VX046009.D	30 Apr 2025 19:34	vial A pH#5.0	JC/MD	Ok
27	Q1901-11	B-170-SB02	VX046010.D	30 Apr 2025 19:57	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX046011.D	30 Apr 2025 20:21		JC/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	

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TCLP EXTRACTION LOGPAGE

PB167775

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 04/29/2025 **Time :** 17:20

End Prep Date : 04/30/2025 **Time :** 11:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JN043025,

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : IP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	430992	N/A

Extraction Conformance/Non-Conformance Comments:

Ts UMBLER ZHE-1 /ZHE-2 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 12:30	JP Lab Room	JC WC Lab
	Preparation Group	Analysis Group

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TCLP EXTRACTION LOGPAGE

PB167775

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167775TB	LEB775	18	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-2
Q1901-08	B-167-SB01	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1901-09	B-170-SB01	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1901-10	B-167-SB02	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1901-11	B-170-SB02	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1904-02	VNJ-210	05	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1905-04	MH-G	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1905-08	MH-H	07	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-04	WC-4	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-08	WC-5	09	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-12	WC-6	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-16	WC-7	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1907-02	CO-8R-WC	12	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1912-04	MH-E	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1912-08	MH-F	14	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1913-01	WC-12-S-202504	15	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1913-03	WC-13-S-202504	16	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1915-01	WC-04282025	17	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

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TCLP Solid Determination

PB167775

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167775TB	LEB775	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1907 **WorkList ID :** 189189 **Department :** TCLP Extraction **Date :** 04-29-2025 07:59:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311 ZHE
Q1913-03	WC-13-S-202504	Solid	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311 ZHE
Q1915-01	WC-04282025	Solid	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311 ZHE
Q1901-08	B-167-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	CAMP02	L41	04/28/2025	1311 ZHE
Q1901-09	B-170-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1901-10	B-167-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1901-11	B-170-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1904-02	VNJ-210	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1905-04	MH-G	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1905-08	MH-H	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311 ZHE
Q1906-04	WC-4	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311 ZHE
Q1906-08	WC-5	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1906-12	WC-6	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1906-16	WC-7	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1912-04	MH-E	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1912-08	MH-F	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311 ZHE
Q1907-02	CO-8R-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311 ZHE
					WALS01		04/28/2025	1311 ZHE

Date/Time 04/29/25 17:10
Raw Sample Received by: [illegible]
Raw Sample Relinquished by: JDCSM

Date/Time 04/29/25 19:30
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: [illegible]

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-167-SB01**								
Q1901-02	B-167-SB01	SOIL	Phenanthrene		140.000	J	25.3	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Fluoranthene		180.000	J	36.3	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Pyrene		130.000	J	43.5	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Benzo(a)anthracene		95.000	J	27.8	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Bis(2-ethylhexyl)phthalate		160.000	J	71.6	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Benzo(b)fluoranthene		97.300	J	23	210	ug/Kg
			Total Svoc :		**802.30**				
Q1901-02	B-167-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	360.000	AB	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Benzophenone	*	380.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Heptadecyl trifluoroacetate	*	120.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Isopropyl palmitate	*	220.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	n-Hexadecanoic acid	*	160.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Cyclotetradecane	*	130.000	J	0	0	ug/Kg
			Total Tics :		**1,370.00**				
			Total Concentration:		**2,172.30**				
Client ID :	**B-170-SB01**								
Q1901-03	B-170-SB01	SOIL	Naphthalene		690.000	J	140	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Acenaphthene		550.000	J	130	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Fluorene		580.000	J	150	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Phenanthrene		5,600.000		130	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Anthracene		1,100.000		200	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Fluoranthene		4,700.000		180	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Pyrene		4,500.000		220	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(a)anthracene		2,200.000		140	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Chrysene		2,100.000		120	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(b)fluoranthene		2,000.000		110	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(k)fluoranthene		590.000	J	130	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(a)pyrene		1,600.000		180	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Indeno(1,2,3-cd)pyrene		740.000	J	180	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(g,h,i)perylene		980.000	J	150	1000	ug/Kg
			Total Svoc :		**27,930.00**				
Q1901-03	B-170-SB01	SOIL	11H-Benzo[b]fluorene	*	450.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	1H-Indene, 2-phenyl-	*	700.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	5,16[1,2]:8,13[1,2]-Dibenzen	*	470.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	5H-Indeno[1,2-b]pyridine	*	490.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	9,10-Anthracenedione	*	420.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Anthracene, 1-methyl-	*	1,500.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1901-03	B-170-SB01	SOIL	Anthracene, 2-methyl-	*	430.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Phenanthrene, 1-methyl-	*	1,300.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Phenanthrene, 2-methyl-	*	1,100.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo[j]fluoranthene	*	1,200.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Cyclopenta(def)phenanthrenone	*	550.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	di-p-Tolylacetylene	*	710.000	J	0	0	ug/Kg
			Total Tics :		**9,320.00**				
			Total Concentration:		**37,250.00**				
Client ID :	**B-167-SB02**								
Q1901-04	B-167-SB02	SOIL	.beta.-Sitosterol	*	240.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	1-Heneicosanol	*	770.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	730.000	AB	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Behenic alcohol	*	140.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Benzophenone	*	480.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Carbonic acid, eicosyl vinyl ester	*	330.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Hexacosane	*	250.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Hexathiane	*	290.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Hop-22(29)-en-3.beta.-ol	*	400.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	n-Hexadecanoic acid	*	690.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Octadecanoic acid	*	210.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Stigmasterol	*	350.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	unknown13.804	*	490.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	unknown16.945	*	160.000	J	0	0	ug/Kg
			Total Tics :		**5,530.00**				
			Total Concentration:		**5,530.00**				
Client ID :	**B-170-SB02**								
Q1901-05	B-170-SB02	SOIL	1-Docosene	*	370.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	Aromandendrene	*	150.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	Benzophenone	*	220.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	Trifluoroacetoxy hexadecane	*	410.000	J	0	0	ug/Kg
			Total Tics :		**1,660.00**				
			Total Concentration:		**1,660.00**				
Client ID :	**FB04262025**								
Q1901-06	FB04262025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.900	AB	0	0	ug/L
Q1901-06	FB04262025	WATER	1-Propanol, 2-(2-hydroxypropoxy	*	3.100	J	0	0	ug/L
			Total Tics :		**8.00**				
			Total Concentration:		**8.00**				

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units

SAMPLE DATA

Raw Data: **BF142268.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.7	U	26.7	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.4	U	29.4	210	ug/Kg
95-57-8	2-Chlorophenol	29.5	U	29.5	210	ug/Kg
95-48-7	2-Methylphenol	36.2	U	36.2	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.4	U	45.4	210	ug/Kg
98-86-2	Acetophenone	35.7	U	35.7	210	ug/Kg
65794-96-9	3+4-Methylphenols	49.7	U	49.7	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.3	U	57.3	96.8	ug/Kg
67-72-1	Hexachloroethane	21.3	U	21.3	210	ug/Kg
98-95-3	Nitrobenzene	22.1	U	22.1	210	ug/Kg
78-59-1	Isophorone	39.7	U	39.7	210	ug/Kg
88-75-5	2-Nitrophenol	70.4	U	70.4	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.4	U	78.4	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.3	U	37.3	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.2	U	34.2	210	ug/Kg
91-20-3	Naphthalene	27.5	U	27.5	210	ug/Kg
106-47-8	4-Chloroaniline	42.8	UQ	42.8	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.6	U	30.6	210	ug/Kg
105-60-2	Caprolactam	63.0	U	63.0	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.7	U	34.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.0	U	31.0	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.9	U	23.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.2	U	35.2	210	ug/Kg
92-52-4	1,1-Biphenyl	26.4	U	26.4	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.2	U	27.2	210	ug/Kg
88-74-4	2-Nitroaniline	58.2	U	58.2	210	ug/Kg
131-11-3	Dimethylphthalate	32.8	U	32.8	210	ug/Kg

Raw Data: **BF142268.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.0	U	35.0	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.6	U	40.6	210	ug/Kg
99-09-2	3-Nitroaniline	55.6	UQ	55.6	210	ug/Kg
83-32-9	Acenaphthene	25.8	U	25.8	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.5	U	27.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	60.6	U	60.6	210	ug/Kg
84-66-2	Diethylphthalate	34.2	U	34.2	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.3	U	32.3	210	ug/Kg
86-73-7	Fluorene	30.6	U	30.6	210	ug/Kg
100-01-6	4-Nitroaniline	77.6	U	77.6	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.8	U	39.8	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.6	U	33.6	210	ug/Kg
118-74-1	Hexachlorobenzene	30.6	U	30.6	210	ug/Kg
1912-24-9	Atrazine	41.1	U	41.1	210	ug/Kg
87-86-5	Pentachlorophenol	62.0	U	62.0	400	ug/Kg
85-01-8	Phenanthrene	140	J	25.3	210	ug/Kg
120-12-7	Anthracene	40.3	U	40.3	210	ug/Kg
86-74-8	Carbazole	37.7	U	37.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	57.9	U	57.9	210	ug/Kg
206-44-0	Fluoranthene	180	J	36.3	210	ug/Kg
129-00-0	Pyrene	130	J	43.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.4	U	86.4	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.4	UQ	44.4	400	ug/Kg
56-55-3	Benzo(a)anthracene	95.0	J	27.8	210	ug/Kg
218-01-9	Chrysene	24.1	U	24.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	160	J	71.6	210	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	97.3	J	23.0	210	ug/Kg

Raw Data: **BF142268.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.1	U	27.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.7	U	35.7	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.2	U	35.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.1	U	33.1	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.1	U	31.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.0	U	31.0	210	ug/Kg
123-91-1	1,4-Dioxane	54.7	U	54.7	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.1	U	33.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.0		30 (18) - 130 (112)	65%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.3		30 (18) - 130 (107)	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.7		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	95.5		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	47.6		30 (10) - 130 (105)	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.904			
1146-65-2	Naphthalene-d8	764000	8.187			
15067-26-2	Acenaphthene-d10	364000	9.939			
1517-22-2	Phenanthrene-d10	502000	11.428			
1719-03-5	Chrysene-d12	437000	14.069			
1520-96-3	Perylene-d12	455000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	360	AB		5.13	ug/Kg
000119-61-9	Benzophenone	380	J		10.7	ug/Kg
000295-17-0	Cyclotetradecane	130	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J		12.0	ug/Kg
000142-91-6	Isopropyl palmitate	220	J		12.2	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	120	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	940	U	940	2000	ug/Kg
108-95-2	Phenol	130	U	130	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	150	1000	ug/Kg
95-57-8	2-Chlorophenol	150	U	150	1000	ug/Kg
95-48-7	2-Methylphenol	180	U	180	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	230	1000	ug/Kg
98-86-2	Acetophenone	180	U	180	1000	ug/Kg
65794-96-9	3+4-Methylphenols	250	U	250	2000	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	290	U	290	480	ug/Kg
67-72-1	Hexachloroethane	110	U	110	1000	ug/Kg
98-95-3	Nitrobenzene	110	U	110	1000	ug/Kg
78-59-1	Isophorone	200	U	200	1000	ug/Kg
88-75-5	2-Nitrophenol	350	U	350	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	390	U	390	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	190	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	170	1000	ug/Kg
91-20-3	Naphthalene	690	J	140	1000	ug/Kg
106-47-8	4-Chloroaniline	210	UQ	210	1000	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	1000	ug/Kg
105-60-2	Caprolactam	310	U	310	2000	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	170	1000	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	150	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	700	U	700	2000	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	U	180	1000	ug/Kg
92-52-4	1,1-Biphenyl	130	U	130	1000	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	1000	ug/Kg
88-74-4	2-Nitroaniline	290	U	290	1000	ug/Kg
131-11-3	Dimethylphthalate	160	U	160	1000	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	170	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	200	1000	ug/Kg
99-09-2	3-Nitroaniline	280	UQ	280	1000	ug/Kg
83-32-9	Acenaphthene	550	J	130	1000	ug/Kg
51-28-5	2,4-Dinitrophenol	1400	U	1400	2000	ug/Kg
100-02-7	4-Nitrophenol	640	U	640	2000	ug/Kg
132-64-9	Dibenzofuran	140	U	140	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	300	U	300	1000	ug/Kg
84-66-2	Diethylphthalate	170	U	170	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	160	1000	ug/Kg
86-73-7	Fluorene	580	J	150	1000	ug/Kg
100-01-6	4-Nitroaniline	390	U	390	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620	U	620	2000	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	200	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	170	1000	ug/Kg
118-74-1	Hexachlorobenzene	150	U	150	1000	ug/Kg
1912-24-9	Atrazine	200	U	200	1000	ug/Kg
87-86-5	Pentachlorophenol	310	U	310	2000	ug/Kg
85-01-8	Phenanthrene	5600		130	1000	ug/Kg
120-12-7	Anthracene	1100		200	1000	ug/Kg
86-74-8	Carbazole	190	U	190	1000	ug/Kg
84-74-2	Di-n-butylphthalate	290	U	290	1000	ug/Kg
206-44-0	Fluoranthene	4700		180	1000	ug/Kg
129-00-0	Pyrene	4500		220	1000	ug/Kg
85-68-7	Butylbenzylphthalate	430	U	430	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	220	UQ	220	2000	ug/Kg
56-55-3	Benzo(a)anthracene	2200		140	1000	ug/Kg
218-01-9	Chrysene	2100		120	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	360	U	360	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	520	U	520	2000	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		110	1000	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	590	J	130	1000	ug/Kg
50-32-8	Benzo(a)pyrene	1600		180	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	740	J	180	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	1000	ug/Kg
191-24-2	Benzo(g,h,i)perylene	980	J	150	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	1000	ug/Kg
123-91-1	1,4-Dioxane	270	U	270	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	160	1000	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.0		30 (18) - 130 (112)	53%	SPK: 150
13127-88-3	Phenol-d6	80.8		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.8		30 (18) - 130 (107)	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		30 (20) - 130 (109)	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.7		30 (10) - 130 (116)	53%	SPK: 150
1718-51-0	Terphenyl-d14	37.0		30 (10) - 130 (105)	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	274000	7.751			
1146-65-2	Naphthalene-d8	1010000	10.539			
15067-26-2	Acenaphthene-d10	706000	14.392			
1517-22-2	Phenanthrene-d10	1460000	17.145			
1719-03-5	Chrysene-d12	1410000	21.38			
1520-96-3	Perylene-d12	1410000	24.374			
TENTATIVE IDENTIFIED COMPOUNDS						
000244-99-5	5H-Indeno[1,2-b]pyridine	490	J		17.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	1100	J		18.0	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	1300	J		18.1	ug/Kg
000613-12-7	Anthracene, 2-methyl-	430	J		18.2	ug/Kg
000610-48-0	Anthracene, 1-methyl-	1500	J		18.2	ug/Kg
004505-48-0	1H-Indene, 2-phenyl-	700	J		18.3	ug/Kg
005672-97-9	5,16[1,2]:8,13[1,2]-Dibenzen	470	J		18.5	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000084-65-1	9,10-Anthracenedione	420	J		18.6	ug/Kg
002789-88-0	di-p-Tolylacetylene	710	J		18.9	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	550	J		19.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	450	J		20.1	ug/Kg
000205-82-3	Benzo[j]fluoranthene	1200	J		24.1	ug/Kg

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

Raw Data: **BF142271.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290	U	290	620	ug/Kg
108-95-2	Phenol	41.4	U	41.4	320	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	45.6	U	45.6	320	ug/Kg
95-57-8	2-Chlorophenol	45.8	U	45.8	320	ug/Kg
95-48-7	2-Methylphenol	56.1	U	56.1	320	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	70.3	U	70.3	320	ug/Kg
98-86-2	Acetophenone	55.3	U	55.3	320	ug/Kg
65794-96-9	3+4-Methylphenols	77.1	U	77.1	620	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	88.9	U	88.9	150	ug/Kg
67-72-1	Hexachloroethane	33.0	U	33.0	320	ug/Kg
98-95-3	Nitrobenzene	34.3	U	34.3	320	ug/Kg
78-59-1	Isophorone	61.5	U	61.5	320	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	320	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	320	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	57.8	U	57.8	320	ug/Kg
120-83-2	2,4-Dichlorophenol	53.1	U	53.1	320	ug/Kg
91-20-3	Naphthalene	42.6	U	42.6	320	ug/Kg
106-47-8	4-Chloroaniline	66.4	UQ	66.4	320	ug/Kg
87-68-3	Hexachlorobutadiene	47.4	U	47.4	320	ug/Kg
105-60-2	Caprolactam	97.7	U	97.7	620	ug/Kg
59-50-7	4-Chloro-3-methylphenol	53.8	U	53.8	320	ug/Kg
91-57-6	2-Methylnaphthalene	48.0	U	48.0	320	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	620	ug/Kg
88-06-2	2,4,6-Trichlorophenol	37.1	U	37.1	320	ug/Kg
95-95-4	2,4,5-Trichlorophenol	54.6	U	54.6	320	ug/Kg
92-52-4	1,1-Biphenyl	40.9	U	40.9	320	ug/Kg
91-58-7	2-Chloronaphthalene	42.2	U	42.2	320	ug/Kg
88-74-4	2-Nitroaniline	90.2	U	90.2	320	ug/Kg
131-11-3	Dimethylphthalate	50.8	U	50.8	320	ug/Kg

Raw Data: **BF142271.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	54.2	U	54.2	320	ug/Kg
606-20-2	2,6-Dinitrotoluene	63.0	U	63.0	320	ug/Kg
99-09-2	3-Nitroaniline	86.3	UQ	86.3	320	ug/Kg
83-32-9	Acenaphthene	39.9	U	39.9	320	ug/Kg
51-28-5	2,4-Dinitrophenol	430	U	430	620	ug/Kg
100-02-7	4-Nitrophenol	200	U	200	620	ug/Kg
132-64-9	Dibenzofuran	42.6	U	42.6	320	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.0	U	94.0	320	ug/Kg
84-66-2	Diethylphthalate	53.1	U	53.1	320	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	50.1	U	50.1	320	ug/Kg
86-73-7	Fluorene	47.4	U	47.4	320	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	320	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	190	U	190	620	ug/Kg
86-30-6	n-Nitrosodiphenylamine	61.7	U	61.7	320	ug/Kg
101-55-3	4-Bromophenyl-phenylether	52.1	U	52.1	320	ug/Kg
118-74-1	Hexachlorobenzene	47.4	U	47.4	320	ug/Kg
1912-24-9	Atrazine	63.8	U	63.8	320	ug/Kg
87-86-5	Pentachlorophenol	96.2	U	96.2	620	ug/Kg
85-01-8	Phenanthrene	39.2	U	39.2	320	ug/Kg
120-12-7	Anthracene	62.4	U	62.4	320	ug/Kg
86-74-8	Carbazole	58.5	U	58.5	320	ug/Kg
84-74-2	Di-n-butylphthalate	89.8	U	89.8	320	ug/Kg
206-44-0	Fluoranthene	56.3	U	56.3	320	ug/Kg
129-00-0	Pyrene	67.5	U	67.5	320	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	320	ug/Kg
91-94-1	3,3-Dichlorobenzidine	68.8	UQ	68.8	620	ug/Kg
56-55-3	Benzo(a)anthracene	43.1	U	43.1	320	ug/Kg
218-01-9	Chrysene	37.3	U	37.3	320	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	320	ug/Kg
117-84-0	Di-n-octyl phthalate	160	U	160	620	ug/Kg
205-99-2	Benzo(b)fluoranthene	35.6	U	35.6	320	ug/Kg

Raw Data: **BF142271.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	42.0	U	42.0	320	ug/Kg
50-32-8	Benzo(a)pyrene	55.3	U	55.3	320	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	54.6	U	54.6	320	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	51.4	U	51.4	320	ug/Kg
191-24-2	Benzo(g,h,i)perylene	48.2	U	48.2	320	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	48.0	U	48.0	320	ug/Kg
123-91-1	1,4-Dioxane	84.8	U	84.8	320	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	51.4	U	51.4	320	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	120		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.3		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.5		30 (20) - 130 (109)	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		30 (10) - 130 (116)	81%	SPK: 150
1718-51-0	Terphenyl-d14	49.8		30 (10) - 130 (105)	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	201000	6.904			
1146-65-2	Naphthalene-d8	749000	8.187			
15067-26-2	Acenaphthene-d10	359000	9.939			
1517-22-2	Phenanthrene-d10	508000	11.427			
1719-03-5	Chrysene-d12	449000	14.069			
1520-96-3	Perylene-d12	456000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	730	AB		5.13	ug/Kg
013798-23-7	Hexathiane	290	J		10.2	ug/Kg
000119-61-9	Benzophenone	480	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	690	J		12.0	ug/Kg
000057-11-4	Octadecanoic acid	210	J		12.7	ug/Kg
	unknown13.804	490	J		13.8	ug/Kg
015594-90-8	1-Heneicosanol	770	J		13.9	ug/Kg

Raw Data: **BF142271.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000382-54-3	Carbonic acid, eicosyl vinyl ester	330	J		14.5	ug/Kg
000630-01-3	Hexacosane	250	J		15.2	ug/Kg
000661-19-8	Behenic alcohol	140	J		16.1	ug/Kg
	unknown16.945	160	J		16.9	ug/Kg
000083-48-7	Stigmasterol	350	J		17.3	ug/Kg
000083-46-5	.beta.-Sitosterol	240	J		17.7	ug/Kg
058801-23-3	Hop-22(29)-en-3.beta.-ol	400	J		18.5	ug/Kg

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

Raw Data: **BF142272.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	440	ug/Kg
108-95-2	Phenol	29.4	U	29.4	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.3	U	32.3	230	ug/Kg
95-57-8	2-Chlorophenol	32.5	U	32.5	230	ug/Kg
95-48-7	2-Methylphenol	39.8	U	39.8	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.9	U	49.9	230	ug/Kg
98-86-2	Acetophenone	39.2	U	39.2	230	ug/Kg
65794-96-9	3+4-Methylphenols	54.7	U	54.7	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	63.1	U	63.1	110	ug/Kg
67-72-1	Hexachloroethane	23.4	U	23.4	230	ug/Kg
98-95-3	Nitrobenzene	24.3	U	24.3	230	ug/Kg
78-59-1	Isophorone	43.6	U	43.6	230	ug/Kg
88-75-5	2-Nitrophenol	77.4	U	77.4	230	ug/Kg
105-67-9	2,4-Dimethylphenol	86.2	U	86.2	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.0	U	41.0	230	ug/Kg
120-83-2	2,4-Dichlorophenol	37.6	U	37.6	230	ug/Kg
91-20-3	Naphthalene	30.2	U	30.2	230	ug/Kg
106-47-8	4-Chloroaniline	47.1	UQ	47.1	230	ug/Kg
87-68-3	Hexachlorobutadiene	33.7	U	33.7	230	ug/Kg
105-60-2	Caprolactam	69.3	U	69.3	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.2	U	38.2	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.1	U	34.1	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.3	U	26.3	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.7	U	38.7	230	ug/Kg
92-52-4	1,1-Biphenyl	29.0	U	29.0	230	ug/Kg
91-58-7	2-Chloronaphthalene	29.9	U	29.9	230	ug/Kg
88-74-4	2-Nitroaniline	64.0	U	64.0	230	ug/Kg
131-11-3	Dimethylphthalate	36.0	U	36.0	230	ug/Kg

Raw Data: **BF142272.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	38.4	U	38.4	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	44.7	U	44.7	230	ug/Kg
99-09-2	3-Nitroaniline	61.2	UQ	61.2	230	ug/Kg
83-32-9	Acenaphthene	28.3	U	28.3	230	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	440	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	440	ug/Kg
132-64-9	Dibenzofuran	30.2	U	30.2	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	66.6	U	66.6	230	ug/Kg
84-66-2	Diethylphthalate	37.6	U	37.6	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	35.5	U	35.5	230	ug/Kg
86-73-7	Fluorene	33.7	U	33.7	230	ug/Kg
100-01-6	4-Nitroaniline	85.4	U	85.4	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.8	U	43.8	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.0	U	37.0	230	ug/Kg
118-74-1	Hexachlorobenzene	33.7	U	33.7	230	ug/Kg
1912-24-9	Atrazine	45.2	U	45.2	230	ug/Kg
87-86-5	Pentachlorophenol	68.2	U	68.2	440	ug/Kg
85-01-8	Phenanthrene	27.8	U	27.8	230	ug/Kg
120-12-7	Anthracene	44.3	U	44.3	230	ug/Kg
86-74-8	Carbazole	41.5	U	41.5	230	ug/Kg
84-74-2	Di-n-butylphthalate	63.7	U	63.7	230	ug/Kg
206-44-0	Fluoranthene	39.9	U	39.9	230	ug/Kg
129-00-0	Pyrene	47.9	U	47.9	230	ug/Kg
85-68-7	Butylbenzylphthalate	95.0	U	95.0	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.8	UQ	48.8	440	ug/Kg
56-55-3	Benzo(a)anthracene	30.6	U	30.6	230	ug/Kg
218-01-9	Chrysene	26.5	U	26.5	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	78.7	U	78.7	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	25.3	U	25.3	230	ug/Kg

Raw Data: **BF142272.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.8	U	29.8	230	ug/Kg
50-32-8	Benzo(a)pyrene	39.2	U	39.2	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.7	U	38.7	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	36.4	U	36.4	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	34.2	U	34.2	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.1	U	34.1	230	ug/Kg
123-91-1	1,4-Dioxane	60.1	U	60.1	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	36.4	U	36.4	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	74.0		30 (18) - 130 (112)	49%	SPK: 150
13127-88-3	Phenol-d6	75.3		30 (15) - 130 (107)	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.9		30 (18) - 130 (107)	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.8		30 (20) - 130 (109)	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.2		30 (10) - 130 (116)	52%	SPK: 150
1718-51-0	Terphenyl-d14	37.4		30 (10) - 130 (105)	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.904			
1146-65-2	Naphthalene-d8	721000	8.186			
15067-26-2	Acenaphthene-d10	342000	9.939			
1517-22-2	Phenanthrene-d10	491000	11.427			
1719-03-5	Chrysene-d12	440000	14.062			
1520-96-3	Perylene-d12	434000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.12	ug/Kg
000119-61-9	Benzophenone	220	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		12.0	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	410	J		13.9	ug/Kg
001599-67-3	1-Docosene	370	J		14.5	ug/Kg
000489-39-4	Aromandendrene	150	J		17.3	ug/Kg

Raw Data: **BF142272.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

Raw Data: **BF142267.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.6	ug/L
108-95-2	Phenol	0.97	U	0.97	5.30	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.86	U	0.86	5.30	ug/L
95-57-8	2-Chlorophenol	0.62	U	0.62	5.30	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.30	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.30	ug/L
98-86-2	Acetophenone	0.79	U	0.79	5.30	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.6	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.70	ug/L
67-72-1	Hexachloroethane	0.69	U	0.69	5.30	ug/L
98-95-3	Nitrobenzene	0.81	U	0.81	5.30	ug/L
78-59-1	Isophorone	0.80	U	0.80	5.30	ug/L
88-75-5	2-Nitrophenol	1.90	U	1.90	5.30	ug/L
105-67-9	2,4-Dimethylphenol	2.00	U	2.00	5.30	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.72	U	0.72	5.30	ug/L
120-83-2	2,4-Dichlorophenol	0.55	U	0.55	5.30	ug/L
91-20-3	Naphthalene	0.53	U	0.53	5.30	ug/L
106-47-8	4-Chloroaniline	0.89	UQ	0.89	5.30	ug/L
87-68-3	Hexachlorobutadiene	0.57	U	0.57	5.30	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.6	ug/L
59-50-7	4-Chloro-3-methylphenol	0.63	U	0.63	5.30	ug/L
91-57-6	2-Methylnaphthalene	0.60	U	0.60	5.30	ug/L
77-47-4	Hexachlorocyclopentadiene	3.90	U	3.90	10.6	ug/L
88-06-2	2,4,6-Trichlorophenol	0.54	U	0.54	5.30	ug/L
95-95-4	2,4,5-Trichlorophenol	0.66	U	0.66	5.30	ug/L
92-52-4	1,1-Biphenyl	0.56	U	0.56	5.30	ug/L
91-58-7	2-Chloronaphthalene	0.65	U	0.65	5.30	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.30	ug/L
131-11-3	Dimethylphthalate	0.65	U	0.65	5.30	ug/L

Raw Data: **BF142267.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.80	U	0.80	5.30	ug/L
606-20-2	2,6-Dinitrotoluene	0.98	U	0.98	5.30	ug/L
99-09-2	3-Nitroaniline	1.10	UQ	1.10	5.30	ug/L
83-32-9	Acenaphthene	0.59	U	0.59	5.30	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.6	ug/L
100-02-7	4-Nitrophenol	2.50	U	2.50	10.6	ug/L
132-64-9	Dibenzofuran	0.65	U	0.65	5.30	ug/L
121-14-2	2,4-Dinitrotoluene	1.30	U	1.30	5.30	ug/L
84-66-2	Diethylphthalate	0.73	U	0.73	5.30	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.72	U	0.72	5.30	ug/L
86-73-7	Fluorene	0.67	U	0.67	5.30	ug/L
100-01-6	4-Nitroaniline	1.60	U	1.60	5.30	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.6	ug/L
86-30-6	n-Nitrosodiphenylamine	0.62	U	0.62	5.30	ug/L
101-55-3	4-Bromophenyl-phenylether	0.43	U	0.43	5.30	ug/L
118-74-1	Hexachlorobenzene	0.55	U	0.55	5.30	ug/L
1912-24-9	Atrazine	1.10	U	1.10	5.30	ug/L
87-86-5	Pentachlorophenol	1.70	U	1.70	10.6	ug/L
85-01-8	Phenanthrene	0.53	U	0.53	5.30	ug/L
120-12-7	Anthracene	0.65	U	0.65	5.30	ug/L
86-74-8	Carbazole	0.77	U	0.77	5.30	ug/L
84-74-2	Di-n-butylphthalate	1.30	U	1.30	5.30	ug/L
206-44-0	Fluoranthene	0.87	U	0.87	5.30	ug/L
129-00-0	Pyrene	0.53	U	0.53	5.30	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.30	ug/L
91-94-1	3,3-Dichlorobenzidine	0.99	UQ	0.99	10.6	ug/L
56-55-3	Benzo(a)anthracene	0.48	U	0.48	5.30	ug/L
218-01-9	Chrysene	0.47	U	0.47	5.30	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.70	U	1.70	5.30	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.6	ug/L
205-99-2	Benzo(b)fluoranthene	0.52	U	0.52	5.30	ug/L

Raw Data: **BF142267.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.51	U	0.51	5.30	ug/L
50-32-8	Benzo(a)pyrene	0.59	U	0.59	5.30	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.63	U	0.63	5.30	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.71	U	0.71	5.30	ug/L
191-24-2	Benzo(g,h,i)perylene	0.73	U	0.73	5.30	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.55	U	0.55	5.30	ug/L
123-91-1	1,4-Dioxane	1.10	U	1.10	5.30	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.77	U	0.77	5.30	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	53.2		15 (10) - 110 (139)	35%	SPK: 150
13127-88-3	Phenol-d6	32.1		15 (10) - 110 (134)	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.8		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.0		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		15 (44) - 110 (137)	80%	SPK: 150
1718-51-0	Terphenyl-d14	59.1		30 (48) - 130 (125)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	201000	6.904			
1146-65-2	Naphthalene-d8	750000	8.187			
15067-26-2	Acenaphthene-d10	355000	9.939			
1517-22-2	Phenanthrene-d10	507000	11.428			
1719-03-5	Chrysene-d12	448000	14.069			
1520-96-3	Perylene-d12	425000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.90	AB		5.12	ug/L
000106-62-7	1-Propanol, 2-(2-hydroxypropoxy)-	3.10	J		8.43	ug/L

Raw Data: **BF142267.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167779BL	PB167779BL	2-Fluorophenol	150	142	95		30 (18)	130 (112)
		Phenol-d6	150	133	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.4	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	88.3	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	139	93		30 (10)	130 (116)
		Terphenyl-d14	100	106	106		30 (10)	130 (105)
PB167779BS	PB167779BS	2-Fluorophenol	150	142	95		30 (18)	130 (112)
		Phenol-d6	150	135	90		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.4	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.2	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	143	95		30 (10)	130 (116)
		Terphenyl-d14	100	88.8	89		30 (10)	130 (105)
Q1901-02	B-167-SB01	2-Fluorophenol	150	97.0	65		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	76.3	76		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.7	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	95.5	64		30 (10)	130 (116)
		Terphenyl-d14	100	47.6	48		30 (10)	130 (105)
Q1901-02MS	B-167-SB01MS	2-Fluorophenol	150	87.3	58		30 (18)	130 (112)
		Phenol-d6	150	90.2	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.1	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	63.1	63		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	90.8	61		30 (10)	130 (116)
		Terphenyl-d14	100	43.9	44		30 (10)	130 (105)
Q1901-02MSD	B-167-SB01MSD	2-Fluorophenol	150	85.7	57		30 (18)	130 (112)
		Phenol-d6	150	87.2	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.9	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	61.8	62		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	89.2	59		30 (10)	130 (116)
		Terphenyl-d14	100	42.1	42		30 (10)	130 (105)
Q1901-03	B-170-SB01	2-Fluorophenol	150	80.0	53		30 (18)	130 (112)
		Phenol-d6	150	80.8	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	44.8	45		30 (18)	130 (107)
		2-Fluorobiphenyl	100	44.0	44		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	79.7	53		30 (10)	130 (116)
		Terphenyl-d14	100	37.0	37		30 (10)	130 (105)
Q1901-04	B-167-SB02	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	120	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	91.3	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.5	74		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	122	81		30 (10)	130 (116)
		Terphenyl-d14	100	49.8	50		30 (10)	130 (105)
Q1901-05	B-170-SB02	2-Fluorophenol	150	74.0	49		30 (18)	130 (112)
		Phenol-d6	150	75.3	50		30 (15)	130 (107)
		Nitrobenzene-d5	100	56.9	57		30 (18)	130 (107)
		2-Fluorobiphenyl	100	53.8	54		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	78.2	52		30 (10)	130 (116)
		Terphenyl-d14	100	37.4	37		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167798BL	PB167798BL	2-Fluorophenol	150	113	76		15 (10)	110 (139)
		Phenol-d6	150	113	76		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.3	80		30 (49)	130 (133)
		2-Fluorobiphenyl	100	70.4	70		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	118	79		15 (44)	110 (137)
		Terphenyl-d14	100	64.3	64		30 (48)	130 (125)
PB167798BS	PB167798BS	2-Fluorophenol	150	111	74		15 (10)	110 (139)
		Phenol-d6	150	113	75		15 (10)	110 (134)
		Nitrobenzene-d5	100	78.7	79		30 (49)	130 (133)
		2-Fluorobiphenyl	100	69.2	69		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	131	87		15 (44)	110 (137)
		Terphenyl-d14	100	73.5	74		30 (48)	130 (125)
PB167798BSD	PB167798BSD	2-Fluorophenol	150	108	72		15 (10)	110 (139)
		Phenol-d6	150	110	74		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.3	80		30 (49)	130 (133)
		2-Fluorobiphenyl	100	68.2	68		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	73.8	74		30 (48)	130 (125)
Q1901-06	FB04262025	2-Fluorophenol	150	53.2	35		15 (10)	110 (139)
		Phenol-d6	150	32.1	21		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.8	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	80.0	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	120	80		15 (44)	110 (137)
		Terphenyl-d14	100	59.1	59		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1901-02MS		**Client Sample ID: B-167-SB01MS**						**DataFile: BF142269.D**			
Benzaldehyde	2000	0	1100	ug/Kg	55				20 (10)	160 (86)	
Phenol	2000	0	1800	ug/Kg	90				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2000	0	1800	ug/Kg	90				70 (54)	130 (125)	
2-Chlorophenol	2000	0	1800	ug/Kg	90				70 (79)	130 (107)	
2-Methylphenol	2000	0	1700	ug/Kg	85				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2000	0	1800	ug/Kg	90				70 (65)	130 (110)	
Acetophenone	2000	0	1800	ug/Kg	90				70 (75)	130 (111)	
3+4-Methylphenols	2000	0	1700	ug/Kg	85				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85				70 (59)	130 (119)	
Hexachloroethane	2000	0	1900	ug/Kg	95				20 (65)	160 (117)	
Nitrobenzene	2000	0	2100	ug/Kg	105				70 (70)	130 (119)	
Isophorone	2000	0	1800	ug/Kg	90				70 (76)	130 (122)	
2-Nitrophenol	2000	0	2200	ug/Kg	110				70 (54)	130 (145)	
2,4-Dimethylphenol	2000	0	1800	ug/Kg	90				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2000	0	1800	ug/Kg	90				70 (68)	130 (112)	
2,4-Dichlorophenol	2000	0	1800	ug/Kg	90				70 (72)	130 (118)	
Naphthalene	2000	0	1800	ug/Kg	90				70 (72)	130 (110)	
4-Chloroaniline	2000	0	420	ug/Kg	21	*			70 (10)	130 (91)	
Hexachlorobutadiene	2000	0	1900	ug/Kg	95				70 (66)	130 (114)	
Caprolactam	2000	0	1700	ug/Kg	85				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2000	0	1700	ug/Kg	85				70 (57)	130 (132)	
2-Methylnaphthalene	2000	0	1700	ug/Kg	85				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4000	0	4000	ug/Kg	100				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2000	0	2100	ug/Kg	105				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2000	0	1900	ug/Kg	95				70 (72)	130 (117)	
1,1-Biphenyl	2000	0	1900	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	2000	0	1900	ug/Kg	95				70 (67)	130 (118)	
2-Nitroaniline	2000	0	1900	ug/Kg	95				70 (69)	130 (127)	
Dimethylphthalate	2000	0	1900	ug/Kg	95				70 (70)	130 (113)	
Acenaphthylene	2000	0	1800	ug/Kg	90				70 (79)	130 (118)	
2,6-Dinitrotoluene	2000	0	2000	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	2000	0	1000	ug/Kg	50	*			70 (30)	130 (99)	
Acenaphthene	2000	0	1900	ug/Kg	95				70 (70)	130 (121)	
2,4-Dinitrophenol	4000	0	3300	ug/Kg	83				20 (10)	160 (155)	
4-Nitrophenol	4000	0	3700	ug/Kg	93				20 (45)	160 (133)	
Dibenzofuran	2000	0	1800	ug/Kg	90				70 (72)	130 (110)	
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95				70 (55)	130 (128)	
Diethylphthalate	2000	0	1800	ug/Kg	90				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90				70 (71)	130 (108)	
Fluorene	2000	0	1700	ug/Kg	85				70 (68)	130 (116)	
4-Nitroaniline	2000	0	1600	ug/Kg	80				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2000	0	2100	ug/Kg	105				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2000	0	2100	ug/Kg	105				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2000	0	2100	ug/Kg	105				70 (65)	130 (121)	
Hexachlorobenzene	2000	0	2000	ug/Kg	100				70 (67)	130 (118)	
Atrazine	2000	0	2200	ug/Kg	110				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4000	0	4100	ug/Kg	103				20 (47)	160 (128)	
Phenanthrene	2000	140	2000	ug/Kg	93				70 (52)	130 (128)	
Anthracene	2000	0	1900	ug/Kg	95				70 (62)	130 (124)	
Carbazole	2000	0	1800	ug/Kg	90				70 (59)	130 (119)	
Di-n-butylphthalate	2000	0	2300	ug/Kg	115				70 (69)	130 (118)	
Fluoranthene	2000	180	2000	ug/Kg	91				70 (44)	130 (125)	
Pyrene	2000	130	1400	ug/Kg	64	*			70 (26)	130 (142)	
Butylbenzylphthalate	2000	0	2100	ug/Kg	105				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2000	0	1300	ug/Kg	65	*			70 (33)	130 (116)	
Benzo(a)anthracene	2000	95.0	1900	ug/Kg	90				70 (71)	130 (114)	
Chrysene	2000	0	1900	ug/Kg	95				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2000	160	2100	ug/Kg	97				70 (42)	130 (169)	
Di-n-octyl phthalate	2000	0	2200	ug/Kg	110				70 (23)	130 (175)	
Benzo(b)fluoranthene	2000	97.3	2000	ug/Kg	95				70 (67)	130 (121)	
Benzo(k)fluoranthene	2000	0	1900	ug/Kg	95				70 (57)	130 (134)	
Benzo(a)pyrene	2000	0	1900	ug/Kg	95				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2000	0	1400	ug/Kg	70				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2000	0	1400	ug/Kg	70				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2000	0	1300	ug/Kg	65	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2000	0	2000	ug/Kg	100				70 (69)	130 (124)	
1,4-Dioxane	2000	0	1600	ug/Kg	80				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2000	0	1800	ug/Kg	90				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1901-02MSD		**Client Sample ID: B-167-SB01MSD**						**DataFile: BF142270.D**			
Benzaldehyde	2000	0	1100	ug/Kg	55		0		20 (10)	160 (86)	30 (20)
Phenol	2000	0	1700	ug/Kg	85		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2000	0	1700	ug/Kg	85		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2000	0	1800	ug/Kg	90		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	2000	0	1700	ug/Kg	85		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2000	0	1800	ug/Kg	90		0		70 (65)	130 (110)	30 (20)
Acetophenone	2000	0	1700	ug/Kg	85		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2000	0	1700	ug/Kg	85		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2000	0	1800	ug/Kg	90		5		20 (65)	160 (117)	30 (20)
Nitrobenzene	2000	0	2000	ug/Kg	100		5		70 (70)	130 (119)	30 (20)
Isophorone	2000	0	1700	ug/Kg	85		6		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2000	0	2200	ug/Kg	110		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2000	0	1700	ug/Kg	85		6		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2000	0	1800	ug/Kg	90		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2000	0	1800	ug/Kg	90		0		70 (72)	130 (118)	30 (20)
Naphthalene	2000	0	1700	ug/Kg	85		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2000	0	480	ug/Kg	24	*	13		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2000	0	1900	ug/Kg	95		0		70 (66)	130 (114)	30 (20)
Caprolactam	2000	0	1600	ug/Kg	80		6		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2000	0	1600	ug/Kg	80		6		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2000	0	1700	ug/Kg	85		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4000	0	4000	ug/Kg	100		0		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2000	0	2000	ug/Kg	100		5		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2000	0	1900	ug/Kg	95		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2000	0	1900	ug/Kg	95		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2000	0	1800	ug/Kg	90		5		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2000	0	1900	ug/Kg	95		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2000	0	1800	ug/Kg	90		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	2000	0	1800	ug/Kg	90		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2000	0	1900	ug/Kg	95		5		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2000	0	1000	ug/Kg	50	*	0		70 (30)	130 (99)	30 (20)
Acenaphthene	2000	0	1900	ug/Kg	95		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4000	0	3400	ug/Kg	85		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4000	0	3600	ug/Kg	90		3		20 (45)	160 (133)	30 (20)
Dibenzofuran	2000	0	1700	ug/Kg	85		6		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2000	0	1800	ug/Kg	90		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2000	0	1700	ug/Kg	85		6		70 (71)	130 (108)	30 (20)
Fluorene	2000	0	1700	ug/Kg	85		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2000	0	1600	ug/Kg	80		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2000	0	2100	ug/Kg	105		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2000	0	1900	ug/Kg	95		10		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2000	0	2000	ug/Kg	100		5		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2000	0	1900	ug/Kg	95		5		70 (67)	130 (118)	30 (20)
Atrazine	2000	0	2100	ug/Kg	105		5		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4000	0	3900	ug/Kg	98		5		20 (47)	160 (128)	30 (20)
Phenanthrene	2000	140	1900	ug/Kg	88		6		70 (52)	130 (128)	30 (20)
Anthracene	2000	0	1800	ug/Kg	90		5		70 (62)	130 (124)	30 (20)
Carbazole	2000	0	1700	ug/Kg	85		6		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2000	0	2200	ug/Kg	110		4		70 (69)	130 (118)	30 (20)
Fluoranthene	2000	180	1900	ug/Kg	86		6		70 (44)	130 (125)	30 (20)
Pyrene	2000	130	1400	ug/Kg	64	*	0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2000	0	2000	ug/Kg	100		5		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2000	0	1400	ug/Kg	70		7		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2000	95.0	1800	ug/Kg	85		6		70 (71)	130 (114)	30 (20)
Chrysene	2000	0	1800	ug/Kg	90		5		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2000	160	2100	ug/Kg	97		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2000	0	2100	ug/Kg	105		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2000	97.3	2000	ug/Kg	95		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90		5		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2000	0	1900	ug/Kg	95		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2000	0	1300	ug/Kg	65	*	7		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2000	0	1300	ug/Kg	65	*	7		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2000	0	1200	ug/Kg	60	*	8		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2000	0	1900	ug/Kg	95		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2000	0	1500	ug/Kg	75		6		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2000	0	1800	ug/Kg	90		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142252.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167798BS	Benzaldehyde	50	25.4	ug/L	51				20 (10)	160 (162)	
	Phenol	50	41.2	ug/L	82				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	40.9	ug/L	82				70 (62)	130 (103)	
	2-Chlorophenol	50	42.6	ug/L	85				70 (70)	130 (117)	
	2-Methylphenol	50	41.9	ug/L	84				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	41.6	ug/L	83				70 (65)	130 (100)	
	Acetophenone	50	40.1	ug/L	80				70 (60)	130 (104)	
	3+4-Methylphenols	50	41.5	ug/L	83				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.8	ug/L	82				70 (57)	130 (107)	
	Hexachloroethane	50	42.0	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	44.5	ug/L	89				70 (58)	130 (106)	
	Isophorone	50	41.5	ug/L	83				70 (61)	130 (102)	
	2-Nitrophenol	50	41.8	ug/L	84				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	42.1	ug/L	84				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.8	ug/L	86				70 (66)	130 (115)	
	Naphthalene	50	40.4	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	6.60	ug/L	13		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	41.5	ug/L	83				70 (69)	130 (101)	
	Caprolactam	50	45.6	ug/L	91				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	43.3	ug/L	87				70 (65)	130 (114)	
	2-Methylnaphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	88.9	ug/L	89				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	43.8	ug/L	88				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	45.4	ug/L	91				70 (70)	130 (106)	
	1,1-Biphenyl	50	40.9	ug/L	82				70 (72)	130 (98)	
	2-Chloronaphthalene	50	40.7	ug/L	81				70 (59)	130 (106)	
	2-Nitroaniline	50	43.1	ug/L	86				70 (73)	130 (114)	
	Dimethylphthalate	50	43.0	ug/L	86				70 (64)	130 (103)	
	Acenaphthylene	50	41.2	ug/L	82				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	43.8	ug/L	88				70 (64)	130 (110)	
	3-Nitroaniline	50	19.5	ug/L	39		*		70 (28)	130 (100)	
	Acenaphthene	50	43.9	ug/L	88				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	84.5	ug/L	85				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	40.8	ug/L	82				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	48.4	ug/L	97				70 (60)	130 (115)	
	Diethylphthalate	50	43.7	ug/L	87				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	40.7	ug/L	81				70 (61)	130 (104)	
	Fluorene	50	41.1	ug/L	82				70 (64)	130 (107)	
	4-Nitroaniline	50	44.5	ug/L	89				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	44.4	ug/L	89				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	40.9	ug/L	82				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	42.0	ug/L	84				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142252.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167798BS	Hexachlorobenzene	50	41.7	ug/L	83				70 (73)	130 (106)	
	Atrazine	50	45.4	ug/L	91				70 (76)	130 (120)	
	Pentachlorophenol	100	93.2	ug/L	93				20 (47)	160 (114)	
	Phenanthrene	50	40.0	ug/L	80				70 (62)	130 (109)	
	Anthracene	50	40.9	ug/L	82				70 (65)	130 (110)	
	Carbazole	50	41.5	ug/L	83				70 (62)	130 (106)	
	Di-n-butylphthalate	50	45.2	ug/L	90				70 (64)	130 (106)	
	Fluoranthene	50	41.9	ug/L	84				70 (64)	130 (110)	
	Pyrene	50	42.9	ug/L	86				70 (71)	130 (103)	
	Butylbenzylphthalate	50	45.3	ug/L	91				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	11.7	ug/L	23		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	41.2	ug/L	82				70 (62)	130 (107)	
	Chrysene	50	43.6	ug/L	87				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	40.8	ug/L	82				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	41.0	ug/L	82				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	44.1	ug/L	88				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	39.7	ug/L	79				70 (77)	130 (105)	
	Benzo(a)pyrene	50	42.5	ug/L	85				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	42.2	ug/L	84				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	42.3	ug/L	85				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	42.0	ug/L	84				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	40.0	ug/L	80				70 (72)	130 (101)	
	1,4-Dioxane	50	34.0	ug/L	68				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	44.9	ug/L	90				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142253.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167798BSD	Benzaldehyde	50	24.3	ug/L	49	4			20 (10)	160 (162)	20 (20)
	Phenol	50	40.3	ug/L	81	2			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	40.2	ug/L	80	2			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	42.5	ug/L	85	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	41.8	ug/L	84	0			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	41.0	ug/L	82	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	39.7	ug/L	79	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	41.3	ug/L	83	0			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	40.6	ug/L	81	0			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	41.3	ug/L	83	2			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	45.3	ug/L	91	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	41.1	ug/L	82	1			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	46.3	ug/L	93	10			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	42.5	ug/L	85	1			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82	0			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	43.3	ug/L	87	1			70 (66)	130 (115)	20 (20)
	Naphthalene	50	39.8	ug/L	80	1			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	9.00	ug/L	18	31	*	*	70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	41.1	ug/L	82	1			70 (69)	130 (101)	20 (20)
	Caprolactam	50	46.4	ug/L	93	2			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	43.4	ug/L	87	0			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	40.2	ug/L	80	1			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	89.1	ug/L	89	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	45.2	ug/L	90	3			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	44.8	ug/L	90	1			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	40.3	ug/L	81	1			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	40.5	ug/L	81	0			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	45.4	ug/L	91	5			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	42.7	ug/L	85	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	40.8	ug/L	82	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	45.6	ug/L	91	4			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	22.4	ug/L	45	14	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	44.0	ug/L	88	0			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	91.6	ug/L	92	8			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	100	ug/L	100	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	40.7	ug/L	81	0			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	49.3	ug/L	99	2			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.2	ug/L	86	1			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	41.3	ug/L	83	1			70 (61)	130 (104)	20 (20)
	Fluorene	50	40.7	ug/L	81	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	45.3	ug/L	91	2			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	48.7	ug/L	97	9			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	41.3	ug/L	83	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	42.4	ug/L	85	1			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142253.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167798BSD	Hexachlorobenzene	50	42.2	ug/L	84	1			70 (73)	130 (106)	20 (20)
	Atrazine	50	47.1	ug/L	94	4			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	94.7	ug/L	95	2			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	40.7	ug/L	81	2			70 (62)	130 (109)	20 (20)
	Anthracene	50	41.3	ug/L	83	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	42.1	ug/L	84	1			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	45.2	ug/L	90	0			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	41.8	ug/L	84	0			70 (64)	130 (110)	20 (20)
	Pyrene	50	43.0	ug/L	86	0			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	45.7	ug/L	91	1			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	14.2	ug/L	28	19	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	41.3	ug/L	83	0			70 (62)	130 (107)	20 (20)
	Chrysene	50	43.0	ug/L	86	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	40.6	ug/L	81	0			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	41.5	ug/L	83	1			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	39.3	ug/L	79	12			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	44.5	ug/L	89	11			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	42.6	ug/L	85	0			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	42.8	ug/L	86	1			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	43.0	ug/L	86	2			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	43.1	ug/L	86	3			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	39.5	ug/L	79	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	33.5	ug/L	67	1			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	46.2	ug/L	92	3			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM050064.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167779BS	Benzaldehyde	1700	890	ug/Kg	52				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1500	ug/Kg	88				70 (62)	130 (100)	
	4-Chloroaniline	1700	610	ug/Kg	36		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1300	ug/Kg	76				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	3700	ug/Kg	112				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				70 (61)	130 (104)	
	3-Nitroaniline	1700	800	ug/Kg	47		*		70 (28)	130 (100)	
	Acenaphthene	1700	1500	ug/Kg	88				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				20 (37)	160 (128)	
	4-Nitrophenol	3300	3000	ug/Kg	91				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM050064.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167779BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1500	ug/Kg	88				70 (47)	130 (152)	
	Pentachlorophenol	3300	3700	ug/Kg	112				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1500	ug/Kg	88				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	830	ug/Kg	49		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167779BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BM050063.D Lab Sample ID: PB167779BL

Instrument ID: BNA_M Date Extracted: 04/29/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/01/2025

Level: (low/med) LOW Time Analyzed: 14:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167779BS	PB167779BS	BM050064.D	05/01/2025
B-170-SB01	Q1901-03	BM050074.D	05/01/2025
B-167-SB01	Q1901-02	BF142268.D	05/01/2025
B-167-SB01MS	Q1901-02MS	BF142269.D	05/01/2025
B-167-SB01MSD	Q1901-02MSD	BF142270.D	05/01/2025
B-167-SB02	Q1901-04	BF142271.D	05/01/2025
B-170-SB02	Q1901-05	BF142272.D	05/01/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167798BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142251.D Lab Sample ID: PB167798BL

Instrument ID: BNA_F Date Extracted: 04/30/2025

Matrix: (soil/water) Water Date Analyzed: 05/01/2025

Level: (low/med) LOW Time Analyzed: 10:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167798BS	PB167798BS	BF142252.D	05/01/2025
PB167798BSD	PB167798BSD	BF142253.D	05/01/2025
FB04262025	Q1901-06	BF142267.D	05/01/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142238.D DFTPP Injection Date: 04/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.6
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	27.3
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.3
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 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	BF142239.D	04/30/2025	11:24
SSTDICC005	SSTDICC005	BF142240.D	04/30/2025	11:52
SSTDICC010	SSTDICC010	BF142241.D	04/30/2025	12:20
SSTDICC020	SSTDICC020	BF142242.D	04/30/2025	12:49
SSTDICCC040	SSTDICCC040	BF142243.D	04/30/2025	13:17
SSTDICC050	SSTDICC050	BF142244.D	04/30/2025	13:46
SSTDICC060	SSTDICC060	BF142245.D	04/30/2025	14:15
SSTDICC080	SSTDICC080	BF142246.D	04/30/2025	14:43

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142249.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	42.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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
SSTDCCC040	SSTDCCC040	BF142250.D	05/01/2025	10:17
PB167798BL	PB167798BL	BF142251.D	05/01/2025	10:45
PB167798BS	PB167798BS	BF142252.D	05/01/2025	11:13
PB167798BSD	PB167798BSD	BF142253.D	05/01/2025	11:42
FB04262025	Q1901-06	BF142267.D	05/01/2025	18:26
B-167-SB01	Q1901-02	BF142268.D	05/01/2025	18:55
B-167-SB01MS	Q1901-02MS	BF142269.D	05/01/2025	19:24
B-167-SB01MSD	Q1901-02MSD	BF142270.D	05/01/2025	19:52
B-167-SB02	Q1901-04	BF142271.D	05/01/2025	20:20
B-170-SB02	Q1901-05	BF142272.D	05/01/2025	20:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BM050023.D DFTPP Injection Date: 04/28/2025

Instrument ID: BNA_M DFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.8
68	Less than 2.0% of mass 69	0.4 (1.3) 1
69	Mass 69 relative abundance	28.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	35.7
197	Less than 2.0% of mass 198	0.4
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	26.2
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	74.7
443	15.0 - 24.0% of mass 442	14.4 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM050024.D	04/28/2025	12:30
SSTDICC005	SSTDICC005	BM050025.D	04/28/2025	13:09
SSTDICC010	SSTDICC010	BM050026.D	04/28/2025	13:48
SSTDICC020	SSTDICC020	BM050027.D	04/28/2025	14:27
SSTDICCC040	SSTDICCC040	BM050028.D	04/28/2025	15:06
SSTDICC050	SSTDICC050	BM050029.D	04/28/2025	15:45
SSTDICC060	SSTDICC060	BM050030.D	04/28/2025	16:24
SSTDICC080	SSTDICC080	BM050031.D	04/28/2025	17:04

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BM050061.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_M DFTPP Injection Time: 12:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.1
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	26.4
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	34.3
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12.6
442	Greater than 50% of mass 198	81.4
443	15.0 - 24.0% of mass 442	15.5 (19.1) 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
SSTDCCC040	SSTDCCC040	BM050062.D	05/01/2025	13:25
PB167779BL	PB167779BL	BM050063.D	05/01/2025	14:04
PB167779BS	PB167779BS	BM050064.D	05/01/2025	14:43
B-170-SB01	Q1901-03	BM050074.D	05/01/2025	21:18

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

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	186578	6.91	719586	8.19	381198	9.95
	UPPER LIMIT	373156	7.41	1439170	8.692	762396	10.445
	LOWER LIMIT	93289	6.41	359793	7.692	190599	9.445
	EPA SAMPLE NO.						
01	PB167798BL	227901	6.90	877397	8.19	467254	9.95
02	PB167798BS	225762	6.91	889454	8.19	464234	9.95
03	PB167798BSD	228844	6.91	895505	8.19	472033	9.95
04	B-167-SB01	204691	6.90	764165	8.19	363631	9.94
05	B-167-SB01MS	207729	6.91	776941	8.19	359640	9.95
06	B-167-SB01MSD	204570	6.91	762454	8.19	351872	9.95
07	B-167-SB02	201306	6.90	748548	8.19	358843	9.94
08	FB04262025	201475	6.90	750141	8.19	355308	9.94
09	B-170-SB02	191116	6.90	720969	8.19	342220	9.94

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

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	647816	11.433	384442	14.074	349272	15.562
	UPPER LIMIT	1295630	11.933	768884	14.574	698544	16.062
	LOWER LIMIT	323908	10.933	192221	13.574	174636	15.062
	EPA SAMPLE NO.						
01	PB167798BL	826787	11.43	587490	14.07	406867	15.56
02	PB167798BS	800889	11.43	447227	14.07	448663	15.56
03	PB167798BSD	796412	11.43	445019	14.07	441873	15.56
04	B-167-SB01	501735	11.43	437339	14.07	454707	15.56
05	B-167-SB01MS	495470	11.43	427878	14.07	472653	15.56
06	B-167-SB01MSD	496148	11.43	429879	14.07	473333	15.56
07	B-167-SB02	508457	11.43	449365	14.07	455676	15.56
08	FB04262025	506536	11.43	447799	14.07	425092	15.56
09	B-170-SB02	490996	11.43	440399	14.06	434416	15.56

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BM050062.D Time Analyzed: 13:25

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	329367	7.757	1090200	10.55	636680	14.40
	UPPER LIMIT	658734	8.257	2180400	11.045	1273360	14.898
	LOWER LIMIT	164684	7.257	545100	10.045	318340	13.898
	EPA SAMPLE NO.						
01	B-170-SB01	274480	7.75	1008900	10.54	706272	14.39
02	PB167779BL	362102	7.75	1207360	10.55	720688	14.40
03	PB167779BS	339452	7.75	1125330	10.55	664515	14.39

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BM050062.D Time Analyzed: 13:25

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1171490	17.145	1137060	21.386	1050480	24.374
	UPPER LIMIT	2342980	17.645	2274120	21.886	2100960	24.874
	LOWER LIMIT	585745	16.645	568530	20.886	525240	23.874
	EPA SAMPLE NO.						
01	B-170-SB01	1455100	17.15	1407670	21.38	1408740	24.37
02	PB167779BL	1342350	17.15	1132570	21.39	1130010	24.37
03	PB167779BS	1227380	17.14	1219130	21.38	1104890	24.37

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.
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QC SAMPLE DATA

Raw Data: **BM050063.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BL	SDG No.:	Q1901
Lab Sample ID:	PB167779BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BL	SDG No.:	Q1901
Lab Sample ID:	PB167779BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	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
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	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
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BL	SDG No.:	Q1901
Lab Sample ID:	PB167779BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	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
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	142		30 (18) - 130 (112)	95%	SPK: 150
13127-88-3	Phenol-d6	133		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.3		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		30 (10) - 130 (116)	93%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (10) - 130 (105)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	362000	7.751			
1146-65-2	Naphthalene-d8	1210000	10.545			
15067-26-2	Acenaphthene-d10	721000	14.398			
1517-22-2	Phenanthrene-d10	1340000	17.145			
1719-03-5	Chrysene-d12	1130000	21.386			
1520-96-3	Perylene-d12	1130000	24.374			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		4.89	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167779BL			SDG No.:	Q1901
Lab Sample ID:	PB167779BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

Raw Data: **BF142251.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

Raw Data: **BF142251.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

Raw Data: **BF142251.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	113		15 (10) - 110 (139)	76%	SPK: 150
13127-88-3	Phenol-d6	113		15 (10) - 110 (134)	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.3		30 (49) - 130 (133)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.4		30 (52) - 130 (132)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		15 (44) - 110 (137)	79%	SPK: 150
1718-51-0	Terphenyl-d14	64.3		30 (48) - 130 (125)	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	228000	6.904			
1146-65-2	Naphthalene-d8	877000	8.187			
15067-26-2	Acenaphthene-d10	467000	9.945			
1517-22-2	Phenanthrene-d10	827000	11.428			
1719-03-5	Chrysene-d12	587000	14.069			
1520-96-3	Perylene-d12	407000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	8.70	A		5.15	ug/L

Raw Data: **BF142251.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BS	SDG No.:	Q1901
Lab Sample ID:	PB167779BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050064.D	1	04/29/25 09:30	05/01/25 14:43	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	890		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		37.5	170	ug/Kg
98-86-2	Acetophenone	1600		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1600		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	610		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1300		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1400		27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BS	SDG No.:	Q1901
Lab Sample ID:	PB167779BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050064.D	1	04/29/25 09:30	05/01/25 14:43	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	800		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3000	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1400		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1600		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1400		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1500		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3700	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	170	ug/Kg
120-12-7	Anthracene	1600		33.3	170	ug/Kg
86-74-8	Carbazole	1600		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1500		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	830		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BS	SDG No.:	Q1901
Lab Sample ID:	PB167779BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BM050064.D	1	04/29/25 09:30	05/01/25 14:43	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	142		30 (18) - 130 (112)	95%	SPK: 150
13127-88-3	Phenol-d6	135		30 (15) - 130 (107)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.4		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.2		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		30 (10) - 130 (116)	95%	SPK: 150
1718-51-0	Terphenyl-d14	88.8		30 (10) - 130 (105)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	339000	7.751			
1146-65-2	Naphthalene-d8	1130000	10.545			
15067-26-2	Acenaphthene-d10	665000	14.392			
1517-22-2	Phenanthrene-d10	1230000	17.139			
1719-03-5	Chrysene-d12	1220000	21.38			
1520-96-3	Perylene-d12	1100000	24.374			

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

Raw Data: **BF142252.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BS	SDG No.:	Q1901
Lab Sample ID:	PB167798BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142252.D	1	04/30/25 08:35	05/01/25 11:13	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.4		3.90	10.0	ug/L
108-95-2	Phenol	41.2		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	40.9		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	42.6		0.58	5.00	ug/L
95-48-7	2-Methylphenol	41.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.6		1.30	5.00	ug/L
98-86-2	Acetophenone	40.1		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.5		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.8		1.40	2.50	ug/L
67-72-1	Hexachloroethane	42.0		0.65	5.00	ug/L
98-95-3	Nitrobenzene	44.5		0.76	5.00	ug/L
78-59-1	Isophorone	41.5		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	41.8		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.1		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.8		0.52	5.00	ug/L
91-20-3	Naphthalene	40.4		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	6.60		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.5		0.54	5.00	ug/L
105-60-2	Caprolactam	45.6		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.3		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.5		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	88.9	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	43.8		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.4		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	40.9		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.7		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	43.1		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	43.0		0.61	5.00	ug/L

Raw Data: **BF142252.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BS	SDG No.:	Q1901
Lab Sample ID:	PB167798BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142252.D	1	04/30/25 08:35	05/01/25 11:13	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	41.2		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.8		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	19.5		1.10	5.00	ug/L
83-32-9	Acenaphthene	43.9		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	84.5	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	40.8		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.4		1.20	5.00	ug/L
84-66-2	Diethylphthalate	43.7		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40.7		0.68	5.00	ug/L
86-73-7	Fluorene	41.1		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	44.5		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.4		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	40.9		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	42.0		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	41.7		0.52	5.00	ug/L
1912-24-9	Atrazine	45.4		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	93.2	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	40.0		0.50	5.00	ug/L
120-12-7	Anthracene	40.9		0.61	5.00	ug/L
86-74-8	Carbazole	41.5		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.2		1.20	5.00	ug/L
206-44-0	Fluoranthene	41.9		0.82	5.00	ug/L
129-00-0	Pyrene	42.9		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.3		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	11.7		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.2		0.45	5.00	ug/L
218-01-9	Chrysene	43.6		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	40.8		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	41.0		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.1		0.49	5.00	ug/L

Raw Data: **BF142252.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BS	SDG No.:	Q1901
Lab Sample ID:	PB167798BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142252.D	1	04/30/25 08:35	05/01/25 11:13	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	39.7		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	42.5		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.2		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.3		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.0		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.0		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	34.0		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	44.9		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	111		15 (10) - 110 (139)	74%	SPK: 150
13127-88-3	Phenol-d6	113		15 (10) - 110 (134)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.7		30 (49) - 130 (133)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		30 (52) - 130 (132)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		30 (48) - 130 (125)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	226000	6.91			
1146-65-2	Naphthalene-d8	889000	8.192			
15067-26-2	Acenaphthene-d10	464000	9.945			
1517-22-2	Phenanthrene-d10	801000	11.433			
1719-03-5	Chrysene-d12	447000	14.074			
1520-96-3	Perylene-d12	449000	15.563			

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BSD	SDG No.:	Q1901
Lab Sample ID:	PB167798BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142253.D	1	04/30/25 08:35	05/01/25 11:42	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	24.3		3.90	10.0	ug/L
108-95-2	Phenol	40.3		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	40.2		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	42.5		0.58	5.00	ug/L
95-48-7	2-Methylphenol	41.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.0		1.30	5.00	ug/L
98-86-2	Acetophenone	39.7		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.3		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.6		1.40	2.50	ug/L
67-72-1	Hexachloroethane	41.3		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.3		0.76	5.00	ug/L
78-59-1	Isophorone	41.1		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	46.3		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.5		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.3		0.52	5.00	ug/L
91-20-3	Naphthalene	39.8		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	9.00		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.1		0.54	5.00	ug/L
105-60-2	Caprolactam	46.4		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.4		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.2		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	89.1	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	45.2		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.8		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	40.3		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.5		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	45.4		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	42.7		0.61	5.00	ug/L

Raw Data: **BF142253.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BSD	SDG No.:	Q1901
Lab Sample ID:	PB167798BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142253.D	1	04/30/25 08:35	05/01/25 11:42	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	40.8		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.6		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	22.4		1.10	5.00	ug/L
83-32-9	Acenaphthene	44.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	91.6	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	40.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.3		1.20	5.00	ug/L
84-66-2	Diethylphthalate	43.2		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.3		0.68	5.00	ug/L
86-73-7	Fluorene	40.7		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	45.3		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.7		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	41.3		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	42.4		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	42.2		0.52	5.00	ug/L
1912-24-9	Atrazine	47.1		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	94.7	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	40.7		0.50	5.00	ug/L
120-12-7	Anthracene	41.3		0.61	5.00	ug/L
86-74-8	Carbazole	42.1		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.2		1.20	5.00	ug/L
206-44-0	Fluoranthene	41.8		0.82	5.00	ug/L
129-00-0	Pyrene	43.0		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.7		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	14.2		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.3		0.45	5.00	ug/L
218-01-9	Chrysene	43.0		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	40.6		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	41.5		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	39.3		0.49	5.00	ug/L

Raw Data: **BF142253.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BSD	SDG No.:	Q1901
Lab Sample ID:	PB167798BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142253.D	1	04/30/25 08:35	05/01/25 11:42	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	42.6		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.8		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	43.1		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39.5		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	33.5		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.2		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	108		15 (10) - 110 (139)	72%	SPK: 150
13127-88-3	Phenol-d6	110		15 (10) - 110 (134)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.3		30 (49) - 130 (133)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.2		30 (52) - 130 (132)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	73.8		30 (48) - 130 (125)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	229000	6.91			
1146-65-2	Naphthalene-d8	896000	8.192			
15067-26-2	Acenaphthene-d10	472000	9.945			
1517-22-2	Phenanthrene-d10	796000	11.433			
1719-03-5	Chrysene-d12	445000	14.074			
1520-96-3	Perylene-d12	442000	15.563			

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

Raw Data: **BF142269.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142269.D	1	04/29/25 09:30	05/01/25 19:24	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		190	400	ug/Kg
108-95-2	Phenol	1800		26.7	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		29.3	210	ug/Kg
95-57-8	2-Chlorophenol	1800		29.5	210	ug/Kg
95-48-7	2-Methylphenol	1700		36.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		45.3	210	ug/Kg
98-86-2	Acetophenone	1800		35.6	210	ug/Kg
65794-96-9	3+4-Methylphenols	1700		49.6	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		57.2	96.6	ug/Kg
67-72-1	Hexachloroethane	1900		21.3	210	ug/Kg
98-95-3	Nitrobenzene	2100		22.1	210	ug/Kg
78-59-1	Isophorone	1800		39.6	210	ug/Kg
88-75-5	2-Nitrophenol	2200		70.3	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		78.2	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		37.2	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		34.2	210	ug/Kg
91-20-3	Naphthalene	1800		27.4	210	ug/Kg
106-47-8	4-Chloroaniline	420		42.7	210	ug/Kg
87-68-3	Hexachlorobutadiene	1900		30.5	210	ug/Kg
105-60-2	Caprolactam	1700		62.9	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		34.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	1700		30.9	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		23.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		35.1	210	ug/Kg
92-52-4	1,1-Biphenyl	1900		26.3	210	ug/Kg
91-58-7	2-Chloronaphthalene	1900		27.2	210	ug/Kg
88-74-4	2-Nitroaniline	1900		58.1	210	ug/Kg
131-11-3	Dimethylphthalate	1900		32.7	210	ug/Kg

Raw Data: **BF142269.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142269.D	1	04/29/25 09:30	05/01/25 19:24	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		34.9	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		40.6	210	ug/Kg
99-09-2	3-Nitroaniline	1000		55.5	210	ug/Kg
83-32-9	Acenaphthene	1900		25.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	280	400	ug/Kg
100-02-7	4-Nitrophenol	3700	E	130	400	ug/Kg
132-64-9	Dibenzofuran	1800		27.4	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		60.5	210	ug/Kg
84-66-2	Diethylphthalate	1800		34.2	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		32.2	210	ug/Kg
86-73-7	Fluorene	1700		30.5	210	ug/Kg
100-01-6	4-Nitroaniline	1600		77.5	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2100		120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		39.7	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		33.6	210	ug/Kg
118-74-1	Hexachlorobenzene	2000		30.5	210	ug/Kg
1912-24-9	Atrazine	2200		41.1	210	ug/Kg
87-86-5	Pentachlorophenol	4100	E	61.9	400	ug/Kg
85-01-8	Phenanthrene	2000		25.2	210	ug/Kg
120-12-7	Anthracene	1900		40.2	210	ug/Kg
86-74-8	Carbazole	1800		37.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	2300		57.8	210	ug/Kg
206-44-0	Fluoranthene	2000		36.2	210	ug/Kg
129-00-0	Pyrene	1400		43.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	2100		86.2	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		44.3	400	ug/Kg
56-55-3	Benzo(a)anthracene	1900		27.8	210	ug/Kg
218-01-9	Chrysene	1900		24.0	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		71.5	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		22.9	210	ug/Kg

Raw Data: **BF142269.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142269.D	1	04/29/25 09:30	05/01/25 19:24	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		27.0	210	ug/Kg
50-32-8	Benzo(a)pyrene	1900		35.6	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		35.1	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		33.1	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		31.0	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2000		30.9	210	ug/Kg
123-91-1	1,4-Dioxane	1600		54.6	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		33.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.3		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	90.2		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.1		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.1		30 (20) - 130 (109)	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.8		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	43.9		30 (10) - 130 (105)	44%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	208000	6.91			
1146-65-2	Naphthalene-d8	777000	8.192			
15067-26-2	Acenaphthene-d10	360000	9.945			
1517-22-2	Phenanthrene-d10	495000	11.427			
1719-03-5	Chrysene-d12	428000	14.074			
1520-96-3	Perylene-d12	473000	15.562			

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

Raw Data: **BF142270.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142270.D	1	04/29/25 09:30	05/01/25 19:52	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		190	400	ug/Kg
108-95-2	Phenol	1700		26.7	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		29.4	210	ug/Kg
95-57-8	2-Chlorophenol	1800		29.5	210	ug/Kg
95-48-7	2-Methylphenol	1700		36.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		45.3	210	ug/Kg
98-86-2	Acetophenone	1700		35.6	210	ug/Kg
65794-96-9	3+4-Methylphenols	1700		49.7	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		57.3	96.7	ug/Kg
67-72-1	Hexachloroethane	1800		21.3	210	ug/Kg
98-95-3	Nitrobenzene	2000		22.1	210	ug/Kg
78-59-1	Isophorone	1700		39.6	210	ug/Kg
88-75-5	2-Nitrophenol	2200		70.3	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		78.3	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		37.2	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		34.2	210	ug/Kg
91-20-3	Naphthalene	1700		27.4	210	ug/Kg
106-47-8	4-Chloroaniline	480		42.8	210	ug/Kg
87-68-3	Hexachlorobutadiene	1900		30.6	210	ug/Kg
105-60-2	Caprolactam	1600		62.9	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		34.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	1700		30.9	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		23.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		35.2	210	ug/Kg
92-52-4	1,1-Biphenyl	1900		26.3	210	ug/Kg
91-58-7	2-Chloronaphthalene	1800		27.2	210	ug/Kg
88-74-4	2-Nitroaniline	1900		58.1	210	ug/Kg
131-11-3	Dimethylphthalate	1800		32.7	210	ug/Kg

Raw Data: **BF142270.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142270.D	1	04/29/25 09:30	05/01/25 19:52	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		34.9	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		40.6	210	ug/Kg
99-09-2	3-Nitroaniline	1000		55.6	210	ug/Kg
83-32-9	Acenaphthene	1900		25.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	280	400	ug/Kg
100-02-7	4-Nitrophenol	3600	E	130	400	ug/Kg
132-64-9	Dibenzofuran	1700		27.4	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		60.5	210	ug/Kg
84-66-2	Diethylphthalate	1800		34.2	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		32.3	210	ug/Kg
86-73-7	Fluorene	1700		30.6	210	ug/Kg
100-01-6	4-Nitroaniline	1600		77.6	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2100		120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		39.8	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2000		33.6	210	ug/Kg
118-74-1	Hexachlorobenzene	1900		30.6	210	ug/Kg
1912-24-9	Atrazine	2100		41.1	210	ug/Kg
87-86-5	Pentachlorophenol	3900	E	62.0	400	ug/Kg
85-01-8	Phenanthrene	1900		25.3	210	ug/Kg
120-12-7	Anthracene	1800		40.2	210	ug/Kg
86-74-8	Carbazole	1700		37.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	2200		57.9	210	ug/Kg
206-44-0	Fluoranthene	1900		36.2	210	ug/Kg
129-00-0	Pyrene	1400		43.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	2000		86.3	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		44.3	400	ug/Kg
56-55-3	Benzo(a)anthracene	1800		27.8	210	ug/Kg
218-01-9	Chrysene	1800		24.0	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		71.5	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		23.0	210	ug/Kg

Raw Data: **BF142270.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142270.D	1	04/29/25 09:30	05/01/25 19:52	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		27.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	1900		35.6	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		35.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		33.1	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		31.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		30.9	210	ug/Kg
123-91-1	1,4-Dioxane	1500		54.6	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		33.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	85.7		30 (18) - 130 (112)	57%	SPK: 150
13127-88-3	Phenol-d6	87.2		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.9		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.8		30 (20) - 130 (109)	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.2		30 (10) - 130 (116)	59%	SPK: 150
1718-51-0	Terphenyl-d14	42.1		30 (10) - 130 (105)	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.91			
1146-65-2	Naphthalene-d8	762000	8.187			
15067-26-2	Acenaphthene-d10	352000	9.945			
1517-22-2	Phenanthrene-d10	496000	11.428			
1719-03-5	Chrysene-d12	430000	14.069			
1520-96-3	Perylene-d12	473000	15.557			

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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 30 16:00:01 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142239.D 5 =BF142240.D 10 =BF142241.D 20 =BF142242.D 40 =BF142243.D 50 =BF142244.D 60 =BF142245.D 80 =BF1422
46.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.563	0.534	0.561	0.592	0.580	0.555	0.530	0.559	4.03
3)		Pyridine		1.465	1.391	1.454	1.522	1.503	1.460	1.380	1.454	3.62
4)		n-Nitrosodimet...		0.747	0.699	0.728	0.807	0.789	0.766	0.731	0.752	4.95
5)	S	2-Fluorophenol		1.324	1.238	1.265	1.314	1.285	1.210	1.131	1.252	5.35
6)		Aniline		2.212	2.085	2.157	2.245	2.203	2.101	1.981	2.140	4.29
7)	S	Phenol-d6		1.559	1.505	1.534	1.593	1.550	1.475	1.370	1.512	4.85
8)		2-Chlorophenol		1.252	1.232	1.304	1.379	1.354	1.313	1.225	1.294	4.64
9)		Benzaldehyde		1.154	1.088	1.095	1.117	1.078	0.993	0.875	1.057	8.91
10)	C	Phenol		1.679	1.588	1.657	1.715	1.687	1.603	1.468	1.628	5.15
11)		bis(2-Chloroet...		1.345	1.250	1.270	1.318	1.285	1.231	1.132	1.262	5.46
12)		1,3-Dichlorobe...		1.571	1.485	1.485	1.533	1.478	1.396	1.299	1.464	6.18
13)	C	1,4-Dichlorobe...		1.610	1.486	1.495	1.546	1.488	1.404	1.295	1.475	6.86
14)		1,2-Dichlorobe...		1.489	1.418	1.431	1.475	1.432	1.356	1.255	1.408	5.67
15)		Benzyl Alcohol		1.047	1.017	1.064	1.149	1.126	1.082	1.023	1.073	4.69
16)		2,2'-oxybis(1-...		2.368	2.287	2.303	2.386	2.344	2.216	2.043	2.278	5.19
17)		2-Methylphenol		1.085	1.029	1.068	1.121	1.084	1.050	0.983	1.060	4.19
18)		Hexachloroethane		0.468	0.466	0.481	0.511	0.514	0.489	0.451	0.483	4.84
19)	P	n-Nitroso-di-n...	0.953	0.987	0.937	0.949	0.967	0.939	0.898	0.844	0.934	4.77
20)		3+4-Methylphenols		1.357	1.323	1.372	1.400	1.366	1.296	1.166	1.326	5.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.511	0.482	0.483	0.468	0.461	0.430	0.404	0.463	7.70
23)	S	Nitrobenzene-d5		0.217	0.251	0.302	0.340	0.351	0.339	0.330	0.304	16.88
24)		Nitrobenzene		0.229	0.261	0.297	0.328	0.338	0.323	0.314	0.299	13.31
25)		Isophorone		0.660	0.630	0.642	0.660	0.654	0.626	0.601	0.639	3.36
26)	C	2-Nitrophenol		0.048	0.057	0.083	0.115	0.132	0.136	0.142	0.102	38.38#
27)		2,4-Dimethylph...		0.315	0.319	0.333	0.337	0.333	0.315	0.302	0.322	3.96
28)		bis(2-Chloroet...		0.425	0.404	0.414	0.415	0.410	0.386	0.366	0.403	4.98
29)	C	2,4-Dichloroph...		0.246	0.253	0.274	0.291	0.286	0.272	0.263	0.269	6.12
30)		1,2,4-Trichlor...		0.320	0.303	0.305	0.312	0.304	0.287	0.273	0.301	5.28
31)		Naphthalene		1.106	1.040	1.035	1.020	0.999	0.924	0.858	0.997	8.21
32)		Benzoic acid			0.048	0.087	0.130	0.146	0.159	0.179	0.125	39.24
33)		4-Chloroaniline		0.446	0.414	0.429	0.429	0.423	0.396	0.371	0.415	5.98
34)	C	Hexachlorobuta...		0.180	0.175	0.179	0.185	0.178	0.170	0.161	0.175	4.35
35)		Caprolactam		0.068	0.073	0.081	0.087	0.089	0.085	0.083	0.081	9.45
36)	C	4-Chloro-3-met...		0.262	0.265	0.279	0.295	0.293	0.276	0.266	0.277	4.84
37)		2-Methylnaphth...		0.679	0.637	0.633	0.623	0.612	0.574	0.534	0.613	7.69
38)		1-Methylnaphth...		0.700	0.655	0.667	0.652	0.641	0.590	0.542	0.635	8.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.621	0.575	0.572	0.576	0.566	0.534	0.496	0.563	6.88
41)	P	Hexachlorocycl...	0.244	0.265	0.306	0.352	0.368	0.358	0.343	0.319	15.23
42)	S	2,4,6-Tribromo...	0.139	0.158	0.184	0.204	0.205	0.197	0.190	0.182	13.73
43)	C	2,4,6-Trichlor...	0.275	0.329	0.353	0.370	0.375	0.381	0.357	0.349	10.50
44)		2,4,5-Trichlor...	0.322	0.330	0.362	0.404	0.411	0.371	0.365	0.367	9.17
45)	S	2-Fluorobiphenyl	1.738	1.580	1.520	1.409	1.347	1.221	1.114	1.418	15.11
46)		1,1'-Biphenyl	1.773	1.621	1.612	1.581	1.547	1.435	1.316	1.555	9.38
47)		2-Chloronaphth...	1.289	1.176	1.191	1.185	1.157	1.085	1.014	1.157	7.51
48)		2-Nitroaniline	0.119	0.156	0.228	0.295	0.316	0.315	0.316	0.249	33.25
49)		Acenaphthylene	2.149	2.025	2.025	1.997	1.965	1.828	1.675	1.952	7.93
50)		Dimethylphthalate	1.362	1.284	1.301	1.321	1.309	1.227	1.152	1.280	5.42
51)		2,6-Dinitrotol...	0.098	0.137	0.193	0.241	0.259	0.254	0.249	0.204	31.45
52)	C	Acenaphthene	1.271	1.175	1.156	1.172	1.138	1.072	0.995	1.140	7.63
53)		3-Nitroaniline	0.143	0.187	0.252	0.298	0.311	0.310	0.299	0.257	26.09
54)	P	2,4-Dinitrophenol		0.025	0.036	0.057	0.069	0.076	0.085	0.058	40.36
55)		Dibenzofuran	1.930	1.775	1.751	1.743	1.713	1.581	1.466	1.709	8.67
56)	P	4-Nitrophenol		0.131	0.177	0.216	0.233	0.230	0.220	0.201	19.82
57)		2,4-Dinitrotol...	0.104	0.145	0.213	0.285	0.311	0.309	0.306	0.239	35.96
58)		Fluorene	1.493	1.403	1.351	1.317	1.273	1.186	1.071	1.299	10.74
59)		2,3,4,6-Tetrac...	0.252	0.267	0.312	0.334	0.334	0.323	0.305	0.304	10.65
60)		Diethylphthalate	1.324	1.264	1.302	1.313	1.300	1.215	1.126	1.263	5.61
61)		4-Chlorophenyl...	0.702	0.642	0.632	0.632	0.614	0.570	0.526	0.617	9.06
62)		4-Nitroaniline	0.144	0.177	0.233	0.272	0.287	0.281	0.269	0.238	23.57
63)		Azobenzene	1.346	1.260	1.275	1.279	1.278	1.198	1.098	1.248	6.33
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.022	0.034	0.055	0.065	0.071	0.075	0.054	39.23
66)	c	n-Nitrosodiphe...	0.727	0.686	0.693	0.712	0.689	0.653	0.623	0.683	5.11
67)		4-Bromophenyl-...	0.224	0.219	0.223	0.236	0.225	0.220	0.211	0.223	3.39
68)		Hexachlorobenzene	0.256	0.245	0.248	0.261	0.255	0.244	0.237	0.249	3.28
69)		Atrazine	0.166	0.172	0.186	0.190	0.190	0.182	0.174	0.180	5.29
70)	C	Pentachlorophenol		0.093	0.121	0.144	0.145	0.144	0.144	0.132	16.25
71)		Phenanthrene	1.218	1.114	1.119	1.112	1.064	0.995	0.940	1.080	8.45
72)		Anthracene	1.209	1.161	1.151	1.128	1.099	1.025	0.959	1.105	7.77
73)		Carbazole	1.125	1.047	1.061	1.033	0.996	0.935	0.857	1.008	8.77
74)		Di-n-butylphth...	0.986	1.006	1.088	1.069	1.045	0.988	0.912	1.013	5.88
75)	C	Fluoranthene	1.221	1.144	1.155	1.085	1.035	0.957	0.878	1.068	11.24
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.702	0.748	0.885	0.963	0.945	0.895	0.810	0.850	11.67
78)		Pyrene	1.833	1.801	1.849	2.026	1.937	1.833	1.635	1.845	6.54
79)	S	Terphenyl-d14	1.472	1.413	1.422	1.481	1.392	1.290	1.155	1.375	8.41
80)		Butylbenzylpht...	0.218	0.293	0.405	0.505	0.525	0.524	0.509	0.425	29.32
81)		Benzo(a)anthra...	1.379	1.320	1.332	1.438	1.388	1.316	1.225	1.343	5.06
82)		3,3'-Dichlorob...	0.286	0.317	0.380	0.442	0.450	0.451	0.435	0.394	17.37
83)		Chrysene	1.302	1.210	1.249	1.232	1.227	1.197	1.138	1.222	4.12
84)		Bis(2-ethylhex...	0.384	0.448	0.549	0.695	0.726	0.722	0.707	0.604	23.69
85)	c	Di-n-octyl pht...		0.668	0.875	1.262	1.320	1.347	1.329	1.133	25.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.323	1.384	1.466	1.613	1.556	1.490	1.422	1.465	6.78
88)		Benzo(b)fluora...	1.317	1.220	1.208	1.302	1.271	1.177	1.202	1.242	4.36
89)		Benzo(k)fluora...	1.211	1.159	1.222	1.145	1.146	1.110	0.962	1.136	7.59
90)	C	Benzo(a)pyrene	1.121	1.098	1.146	1.203	1.180	1.137	1.076	1.137	3.91
91)		Dibenzo(a,h)an...	1.075	1.131	1.197	1.312	1.271	1.192	1.144	1.189	6.90
92)		Benzo(g,h,i)pe...	1.076	1.138	1.204	1.308	1.267	1.213	1.162	1.195	6.55

(#) = Out of Range

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 18:09:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050024.D 5 =BM050025.D 10 =BM050026.D 20 =BM050027.D 40 =BM050028.D 50 =BM050029.D 60 =BM050030.D 80 =BM0500
31.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.506	0.464	0.478	0.511	0.504	0.491	0.473	0.490	3.75
3)		Pyridine		1.201	1.166	1.229	1.331	1.328	1.292	1.261	1.258	5.03
4)		n-Nitrosodimet...		0.487	0.459	0.475	0.522	0.518	0.504	0.490	0.493	4.62
5)	S	2-Fluorophenol		1.074	1.079	1.107	1.208	1.211	1.173	1.142	1.142	5.04
6)		Aniline		1.657	1.689	1.768	1.942	1.922	1.875	1.835	1.813	6.16
7)	S	Phenol-d6		1.290	1.318	1.398	1.543	1.537	1.494	1.469	1.436	7.13
8)		2-Chlorophenol		1.169	1.161	1.198	1.312	1.301	1.268	1.235	1.235	4.96
9)		Benzaldehyde		0.940	0.920	0.971	1.031	1.013	0.956	0.894	0.961	5.08
10)	C	Phenol		1.349	1.344	1.420	1.539	1.537	1.501	1.483	1.453	5.73
11)		bis(2-Chloroet...		1.213	1.105	1.176	1.279	1.271	1.233	1.218	1.213	4.90
12)		1,3-Dichlorobe...		1.483	1.428	1.453	1.566	1.552	1.508	1.453	1.492	3.51
13)	C	1,4-Dichlorobe...		1.518	1.418	1.463	1.561	1.557	1.516	1.458	1.499	3.60
14)		1,2-Dichlorobe...		1.420	1.393	1.423	1.522	1.506	1.464	1.405	1.448	3.50
15)		Benzyl Alcohol		0.866	0.881	0.966	1.080	1.074	1.050	1.050	0.996	9.16
16)		2,2'-oxybis(1-...		1.487	1.422	1.445	1.552	1.513	1.473	1.433	1.475	3.17
17)		2-Methylphenol		0.857	0.893	0.931	1.033	1.026	0.988	0.975	0.957	6.96
18)		Hexachloroethane		0.552	0.508	0.521	0.556	0.548	0.533	0.510	0.533	3.79
19)	P	n-Nitroso-di-n...	0.802	0.889	0.885	0.921	1.003	0.988	0.949	0.928	0.921	6.95
20)		3+4-Methylphenols		1.137	1.170	1.267	1.393	1.392	1.349	1.341	1.293	8.09
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.483	0.464	0.485	0.531	0.525	0.506	0.487	0.497	4.94
23)	S	Nitrobenzene-d5		0.386	0.374	0.397	0.434	0.433	0.417	0.400	0.406	5.68
24)		Nitrobenzene		0.337	0.325	0.345	0.374	0.372	0.358	0.346	0.351	5.16
25)		Isophorone		0.666	0.648	0.680	0.729	0.729	0.704	0.687	0.692	4.44
26)	C	2-Nitrophenol		0.148	0.157	0.172	0.196	0.198	0.192	0.191	0.179	11.33
27)		2,4-Dimethylph...		0.263	0.266	0.289	0.324	0.322	0.312	0.305	0.297	8.42
28)		bis(2-Chloroet...		0.407	0.399	0.422	0.455	0.452	0.434	0.425	0.428	4.92
29)	C	2,4-Dichloroph...		0.294	0.298	0.326	0.362	0.359	0.351	0.342	0.333	8.47
30)		1,2,4-Trichlor...		0.400	0.384	0.394	0.427	0.426	0.412	0.399	0.406	4.02
31)		Naphthalene		1.001	0.959	0.993	1.066	1.057	1.023	0.989	1.013	3.80
32)		Benzoic acid			0.138	0.172	0.197	0.206	0.212	0.215	0.190	15.67
33)		4-Chloroaniline		0.361	0.393	0.404	0.441	0.448	0.437	0.423	0.415	7.51
34)	C	Hexachlorobuta...		0.253	0.240	0.249	0.270	0.270	0.263	0.258	0.258	4.34
35)		Caprolactam		0.090	0.085	0.095	0.104	0.104	0.102	0.100	0.097	7.73
36)	C	4-Chloro-3-met...		0.289	0.283	0.302	0.325	0.329	0.317	0.309	0.308	5.72
37)		2-Methylnaphth...		0.656	0.639	0.662	0.713	0.714	0.692	0.678	0.679	4.22
38)		1-Methylnaphth...		0.703	0.675	0.708	0.753	0.751	0.731	0.710	0.719	3.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM042825.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.624	0.622	0.655	0.742	0.745	0.725	0.733	0.692	8.17
41)	P	Hexachlorocycl...		0.303	0.362	0.455	0.468	0.467	0.483	0.423	17.30
42)	S	2,4,6-Tribromo...	0.253	0.249	0.281	0.318	0.329	0.318	0.323	0.296	11.61
43)	C	2,4,6-Trichlor...	0.372	0.381	0.423	0.476	0.485	0.467	0.469	0.439	10.76
44)		2,4,5-Trichlor...	0.410	0.417	0.453	0.517	0.519	0.501	0.497	0.474	9.83
45)	S	2-Fluorobiphenyl	1.588	1.555	1.632	1.807	1.822	1.744	1.688	1.691	6.21
46)		1,1'-Biphenyl	1.427	1.395	1.452	1.573	1.581	1.507	1.473	1.487	4.77
47)		2-Chloronaphth...	1.126	1.112	1.155	1.250	1.248	1.192	1.158	1.177	4.69
48)		2-Nitroaniline	0.238	0.242	0.269	0.302	0.304	0.294	0.286	0.276	9.96
49)		Acenaphthylene	1.794	1.715	1.810	1.972	1.971	1.889	1.845	1.857	5.10
50)		Dimethylphthalate	1.444	1.377	1.437	1.532	1.543	1.470	1.429	1.462	4.02
51)		2,6-Dinitrotol...	0.266	0.271	0.299	0.327	0.331	0.316	0.309	0.303	8.50
52)	C	Acenaphthene	1.038	0.998	1.046	1.133	1.145	1.094	1.067	1.075	4.93
53)		3-Nitroaniline	0.233	0.247	0.284	0.321	0.325	0.311	0.302	0.289	12.47
54)	P	2,4-Dinitrophenol		0.100	0.132	0.178	0.194	0.188	0.191	0.164	23.65
55)		Dibenzofuran	1.749	1.681	1.749	1.876	1.888	1.810	1.763	1.788	4.17
56)	P	4-Nitrophenol		0.128	0.180	0.224	0.237	0.231	0.231	0.205	20.96
57)		2,4-Dinitrotol...	0.338	0.366	0.412	0.456	0.468	0.447	0.440	0.418	11.72
58)		Fluorene	1.387	1.343	1.431	1.558	1.573	1.500	1.453	1.463	5.84
59)		2,3,4,6-Tetrac...	0.366	0.362	0.398	0.435	0.445	0.432	0.431	0.410	8.44
60)		Diethylphthalate	1.372	1.301	1.380	1.433	1.451	1.376	1.328	1.377	3.86
61)		4-Chlorophenyl...	0.741	0.716	0.770	0.857	0.871	0.836	0.836	0.804	7.58
62)		4-Nitroaniline	0.208	0.234	0.277	0.313	0.321	0.301	0.295	0.279	15.17
63)		Azobenzene	1.118	1.091	1.150	1.216	1.229	1.165	1.110	1.154	4.59
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.088	0.110	0.135	0.142	0.138	0.137	0.125	17.16
66)	c	n-Nitrosodiphe...	0.580	0.572	0.596	0.655	0.657	0.629	0.610	0.614	5.56
67)		4-Bromophenyl-...	0.223	0.216	0.229	0.258	0.258	0.256	0.253	0.242	7.60
68)		Hexachlorobenzene	0.265	0.251	0.264	0.294	0.295	0.291	0.291	0.279	6.49
69)		Atrazine	0.196	0.198	0.214	0.236	0.242	0.234	0.230	0.222	8.47
70)	C	Pentachlorophenol		0.117	0.141	0.167	0.172	0.170	0.174	0.157	14.52
71)		Phenanthrene	1.075	1.035	1.083	1.187	1.212	1.173	1.132	1.128	5.84
72)		Anthracene	1.062	1.038	1.096	1.214	1.236	1.191	1.154	1.142	6.78
73)		Carbazole	0.909	0.900	0.960	1.054	1.075	1.038	0.999	0.991	7.05
74)		Di-n-butylphth...	1.106	1.082	1.151	1.246	1.277	1.231	1.165	1.180	6.25
75)	C	Fluoranthene	1.178	1.142	1.250	1.410	1.455	1.425	1.411	1.324	9.86
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.560	0.646	0.772	0.769	0.765	0.751	0.710	12.36
78)		Pyrene	1.290	1.255	1.332	1.518	1.520	1.465	1.453	1.404	7.83
79)	S	Terphenyl-d14	1.176	1.189	1.332	1.524	1.541	1.458	1.239	1.352	11.58
80)		Butylbenzylpht...	0.489	0.479	0.515	0.562	0.568	0.545	0.524	0.526	6.53
81)		Benzo(a)anthra...	1.280	1.231	1.321	1.478	1.479	1.442	1.408	1.377	7.24
82)		3,3'-Dichlorob...	0.434	0.432	0.483	0.580	0.597	0.583	0.581	0.527	14.14
83)		Chrysene	1.208	1.170	1.214	1.342	1.369	1.325	1.296	1.275	6.03
84)		Bis(2-ethylhex...	0.726	0.725	0.775	0.843	0.852	0.814	0.765	0.786	6.61
85)	c	Di-n-octyl pht...	1.221	1.197	1.267	1.366	1.404	1.341	1.275	1.296	5.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM042825.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.301	1.293	1.404	1.602	1.646	1.591	1.595	1.490	10.27
88)		Benzo(b)fluora...	1.128	1.149	1.209	1.406	1.415	1.408	1.390	1.301	10.16
89)		Benzo(k)fluora...	1.219	1.150	1.251	1.387	1.449	1.383	1.372	1.316	8.29
90)	C	Benzo(a)pyrene	1.094	1.066	1.147	1.295	1.330	1.298	1.297	1.218	9.15
91)		Dibenzo(a,h)an...	1.056	1.044	1.142	1.300	1.347	1.305	1.310	1.215	10.72
92)		Benzo(g,h,i)pe...	1.066	1.030	1.105	1.236	1.268	1.224	1.212	1.163	8.07

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date/Time: 05/01/2025 10:17

Lab File ID: BF142250.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.250		-0.2	
Benzaldehyde	1.057	1.122		6.1	
Phenol-d6	1.512	1.575		4.2	
Phenol	1.628	1.656		1.7	20.0
bis(2-Chloroethyl)ether	1.262	1.326		5.1	
2-Chlorophenol	1.294	1.275		-1.5	
2-Methylphenol	1.060	1.103		4.1	
2,2-oxybis(1-Chloropropane)	2.278	2.385		4.7	
Acetophenone	0.463	0.480		3.7	
3+4-Methylphenols	1.326	1.404		5.9	
n-Nitroso-di-n-propylamine	0.934	0.954	0.050	2.1	
Nitrobenzene-d5	0.304	0.333		9.5	
Hexachloroethane	0.483	0.505		4.6	
Nitrobenzene	0.299	0.320		7.0	
Isophorone	0.639	0.672		5.2	
2-Nitrophenol	0.102	0.098		-3.9	20.0
2,4-Dimethylphenol	0.322	0.337		4.7	
bis(2-Chloroethoxy)methane	0.403	0.421		4.5	
2,4-Dichlorophenol	0.269	0.285		5.9	20.0
Naphthalene	0.997	1.030		3.3	
4-Chloroaniline	0.415	0.433		4.3	
Hexachlorobutadiene	0.175	0.186		6.3	20.0
Caprolactam	0.081	0.090		11.1	
4-Chloro-3-methylphenol	0.277	0.300		8.3	20.0
2-Methylnaphthalene	0.613	0.635		3.6	
Hexachlorocyclopentadiene	0.319	0.316	0.050	-0.9	
2,4,6-Trichlorophenol	0.349	0.354		1.4	20.0
2-Fluorobiphenyl	1.418	1.409		-0.6	
2,4,5-Trichlorophenol	0.367	0.386		5.2	
1,1-Biphenyl	1.555	1.591		2.3	
2-Chloronaphthalene	1.157	1.176		1.6	
2-Nitroaniline	0.249	0.277		11.2	
Dimethylphthalate	1.280	1.346		5.2	
Acenaphthylene	1.952	1.996		2.3	
2,6-Dinitrotoluene	0.204	0.231		13.2	
3-Nitroaniline	0.257	0.296		15.2	
Acenaphthene	1.140	1.185		3.9	20.0
2,4-Dinitrophenol	0.058	0.056	0.050	-3.4	
4-Nitrophenol	0.201	0.210	0.050	4.5	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date/Time: 05/01/2025 10:17

Lab File ID: BF142250.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.709	1.772		3.7	
2,4-Dinitrotoluene	0.239	0.289		20.9	
Diethylphthalate	1.264	1.352		7.0	
4-Chlorophenyl-phenylether	0.617	0.638		3.4	
Fluorene	1.299	1.322		1.8	
4-Nitroaniline	0.238	0.283		18.9	
4,6-Dinitro-2-methylphenol	0.054	0.053		-1.9	
n-Nitrosodiphenylamine	0.683	0.706		3.4	20.0
2,4,6-Tribromophenol	0.182	0.196		7.7	
4-Bromophenyl-phenylether	0.223	0.235		5.4	
Hexachlorobenzene	0.249	0.257		3.2	
Atrazine	0.180	0.204		13.3	
Pentachlorophenol	0.132	0.137		3.8	20.0
Phenanthrene	1.080	1.116		3.3	
Anthracene	1.105	1.142		3.3	
Carbazole	1.008	1.044		3.6	
Di-n-butylphthalate	1.013	1.137		12.2	
Fluoranthene	1.068	1.147		7.4	20.0
Pyrene	1.845	1.938		5.0	
Terphenyl-d14	1.375	1.422		3.4	
Butylbenzylphthalate	0.426	0.502		17.8	
3,3-Dichlorobenzidine	0.394	0.420		6.6	
Benzo(a)anthracene	1.343	1.378		2.6	
Chrysene	1.222	1.297		6.1	
Bis(2-ethylhexyl)phthalate	0.604	0.621		2.8	
Di-n-octyl phthalate	1.133	1.018		-10.1	20.0
Benzo(b)fluoranthene	1.242	1.242		0.0	
Benzo(k)fluoranthene	1.136	1.240		9.2	
Benzo(a)pyrene	1.137	1.193		4.9	20.0
Indeno(1,2,3-cd)pyrene	1.465	1.533		4.6	
Dibenzo(a,h)anthracene	1.189	1.258		5.8	
Benzo(g,h,i)perylene	1.195	1.250		4.6	
1,2,4,5-Tetrachlorobenzene	0.563	0.572		1.6	
1,4-Dioxane	0.559	0.579		3.6	20.0
2,3,4,6-Tetrachlorophenol	0.304	0.323		6.3	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_M Calibration Date/Time: 05/01/2025 13:25

Lab File ID: BM050062.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:30 17:04

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.142	1.339		17.3	
Benzaldehyde	0.961	1.092		13.6	
Phenol-d6	1.436	1.600		11.4	
Phenol	1.453	1.604		10.4	20.0
bis(2-Chloroethyl)ether	1.214	1.300		7.1	
2-Chlorophenol	1.235	1.304		5.6	
2-Methylphenol	0.957	0.985		2.9	
2,2-oxybis(1-Chloropropane)	1.475	1.588		7.7	
Acetophenone	0.497	0.555		11.7	
3+4-Methylphenols	1.293	1.302		0.7	
n-Nitroso-di-n-propylamine	0.921	0.843	0.050	-8.5	
Nitrobenzene-d5	0.406	0.470		15.8	
Hexachloroethane	0.533	0.574		7.7	
Nitrobenzene	0.351	0.401		14.2	
Isophorone	0.692	0.722		4.3	
2-Nitrophenol	0.179	0.198		10.6	20.0
2,4-Dimethylphenol	0.297	0.317		6.7	
bis(2-Chloroethoxy)methane	0.428	0.455		6.3	
2,4-Dichlorophenol	0.333	0.356		6.9	20.0
Naphthalene	1.013	1.086		7.2	
4-Chloroaniline	0.415	0.426		2.7	
Hexachlorobutadiene	0.258	0.279		8.1	20.0
Caprolactam	0.097	0.089		-8.2	
4-Chloro-3-methylphenol	0.308	0.303		-1.6	20.0
2-Methylnaphthalene	0.679	0.698		2.8	
Hexachlorocyclopentadiene	0.423	0.472	0.050	11.6	
2,4,6-Trichlorophenol	0.439	0.496		13.0	20.0
2-Fluorobiphenyl	1.691	1.996		18.0	
2,4,5-Trichlorophenol	0.474	0.528		11.4	
1,1-Biphenyl	1.487	1.674		12.6	
2-Chloronaphthalene	1.177	1.322		12.3	
2-Nitroaniline	0.276	0.322		16.7	
Dimethylphthalate	1.462	1.494		2.2	
Acenaphthylene	1.857	2.021		8.8	
2,6-Dinitrotoluene	0.303	0.319		5.3	
3-Nitroaniline	0.289	0.307		6.2	
Acenaphthene	1.075	1.173		9.1	20.0
2,4-Dinitrophenol	0.164	0.161	0.050	-1.8	
4-Nitrophenol	0.205	0.222	0.050	8.3	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_M Calibration Date/Time: 05/01/2025 13:25

Lab File ID: BM050062.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:30 17:04

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.788	1.919		7.3	
2,4-Dinitrotoluene	0.418	0.439		5.0	
Diethylphthalate	1.377	1.398		1.5	
4-Chlorophenyl-phenylether	0.804	0.881		9.6	
Fluorene	1.463	1.622		10.9	
4-Nitroaniline	0.279	0.296		6.1	
4,6-Dinitro-2-methylphenol	0.125	0.131		4.8	
n-Nitrosodiphenylamine	0.614	0.682		11.1	20.0
2,4,6-Tribromophenol	0.296	0.313		5.7	
4-Bromophenyl-phenylether	0.242	0.264		9.1	
Hexachlorobenzene	0.279	0.305		9.3	
Atrazine	0.222	0.235		5.9	
Pentachlorophenol	0.157	0.174		10.8	20.0
Phenanthrene	1.128	1.244		10.3	
Anthracene	1.142	1.274		11.6	
Carbazole	0.991	1.075		8.5	
Di-n-butylphthalate	1.180	1.266		7.3	
Fluoranthene	1.324	1.440		8.8	20.0
Pyrene	1.404	1.537		9.5	
Terphenyl-d14	1.352	1.606		18.8	
Butylbenzylphthalate	0.526	0.549		4.4	
3,3-Dichlorobenzidine	0.527	0.551		4.6	
Benzo(a)anthracene	1.377	1.520		10.4	
Chrysene	1.275	1.371		7.5	
Bis(2-ethylhexyl)phthalate	0.786	0.824		4.8	
Di-n-octyl phthalate	1.296	1.271		-1.9	20.0
Benzo(b)fluoranthene	1.301	1.413		8.6	
Benzo(k)fluoranthene	1.316	1.460		10.9	
Benzo(a)pyrene	1.218	1.323		8.6	20.0
Indeno(1,2,3-cd)pyrene	1.490	1.620		8.7	
Dibenzo(a,h)anthracene	1.215	1.320		8.6	
Benzo(g,h,i)perylene	1.163	1.262		8.5	
1,2,4,5-Tetrachlorobenzene	0.692	0.812		17.3	
1,4-Dioxane	0.490	0.582		18.8	20.0
2,3,4,6-Tetrachlorophenol	0.410	0.429		4.6	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 02 01:07:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	204691	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	764165	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	363631	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	501735	20.000	ng	0.00
76) Chrysene-d12	14.069	240	437339	20.000	ng	0.00
86) Perylene-d12	15.557	264	454707	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1242920	96.976	ng	0.00
7) Phenol-d6	6.522	99	1558191	100.677	ng	0.00
23) Nitrobenzene-d5	7.463	82	887702	76.318	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	316490	95.472	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1770634	68.656	ng	0.00
79) Terphenyl-d14	13.016	244	1430017	47.556	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.451	178	92016	3.395	ng	98
75) Fluoranthene	12.639	202	118025	4.405	ng	97
78) Pyrene	12.869	202	130978	3.247	ng	99
81) Benzo(a)anthracene	14.057	228	69181	2.356	ng	97
84) Bis(2-ethylhexyl)phtha...	14.051	149	9843	4.052	ng	97
88) Benzo(b)fluoranthene	15.116	252	68147m	2.413	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

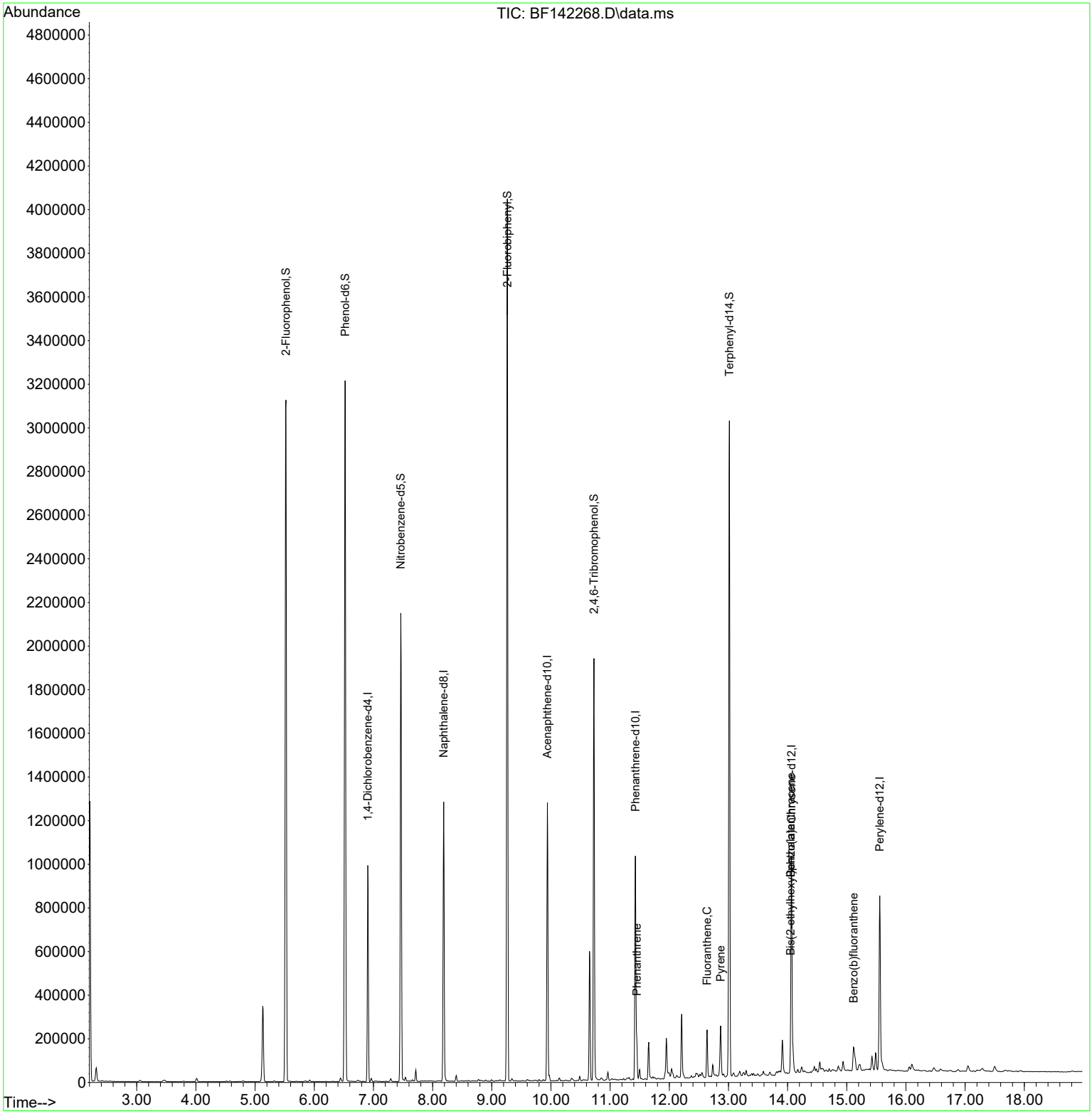
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Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

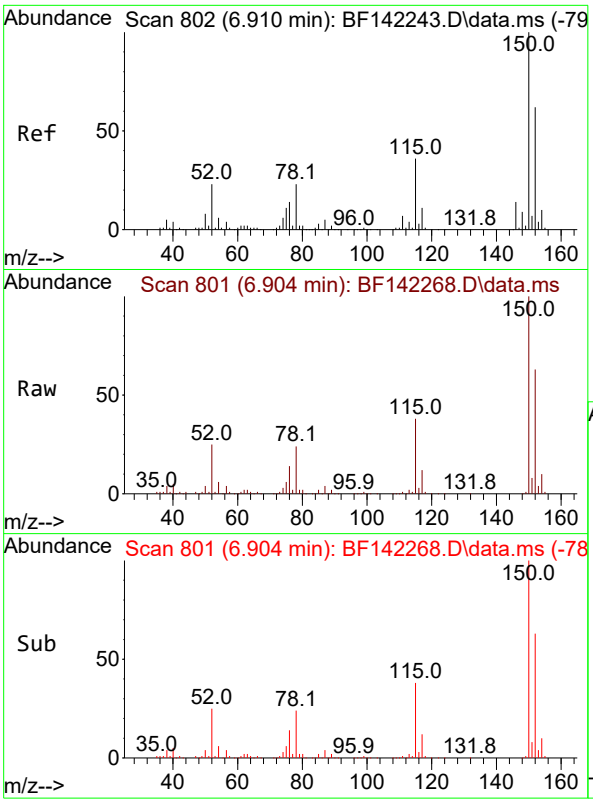
Quant Time: May 02 01:07:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

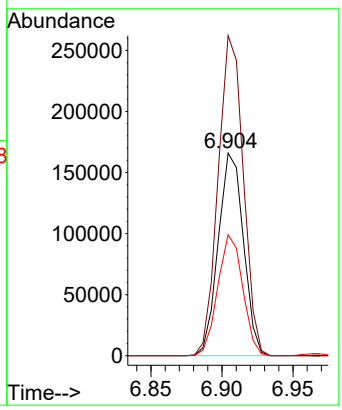




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:152 Resp: 20469

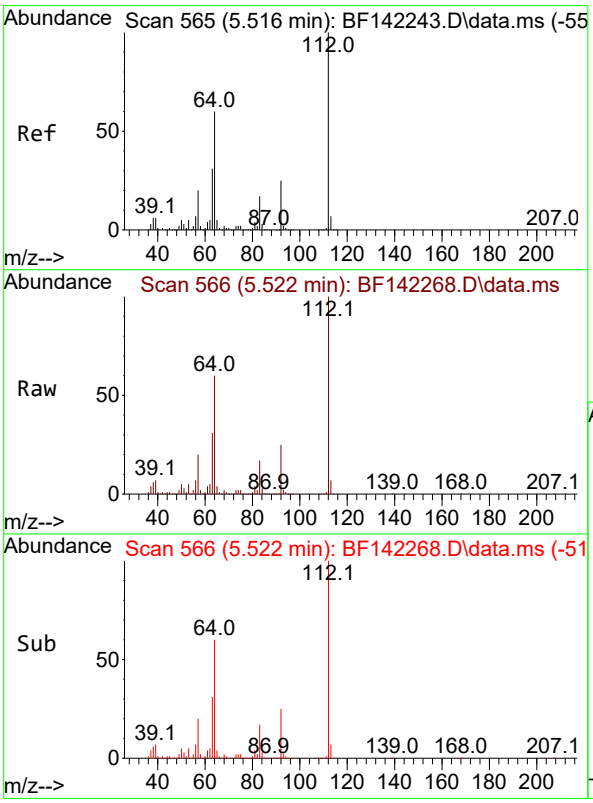
Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	59.7	47.0	70.4



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations
APPROVED

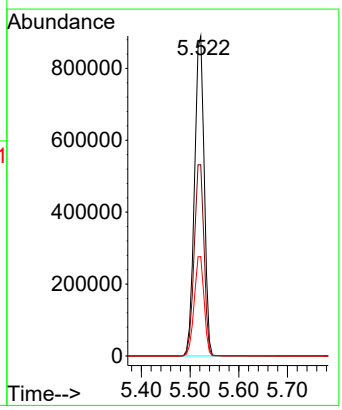
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

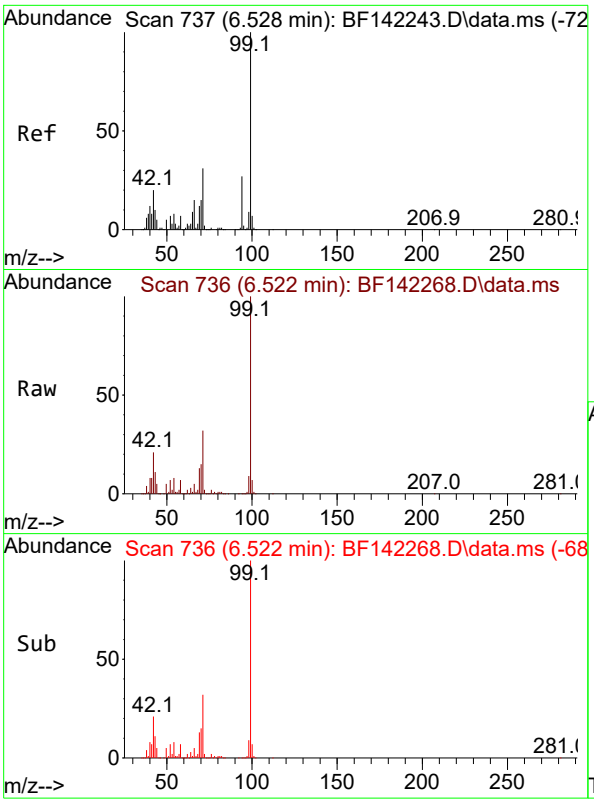


#5
2-Fluorophenol
Concen: 96.976 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:112 Resp: 1242920

Ion	Ratio	Lower	Upper
112	100		
64	59.8	48.4	72.6
63	31.0	24.8	37.2

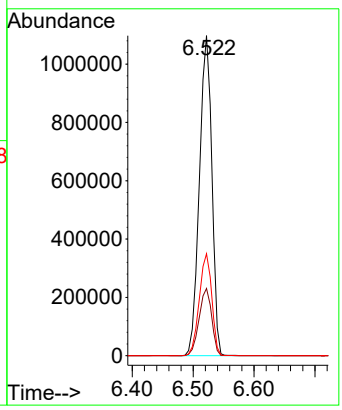




#7
Phenol-d6
Concen: 100.677 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion: 99 Resp: 155819

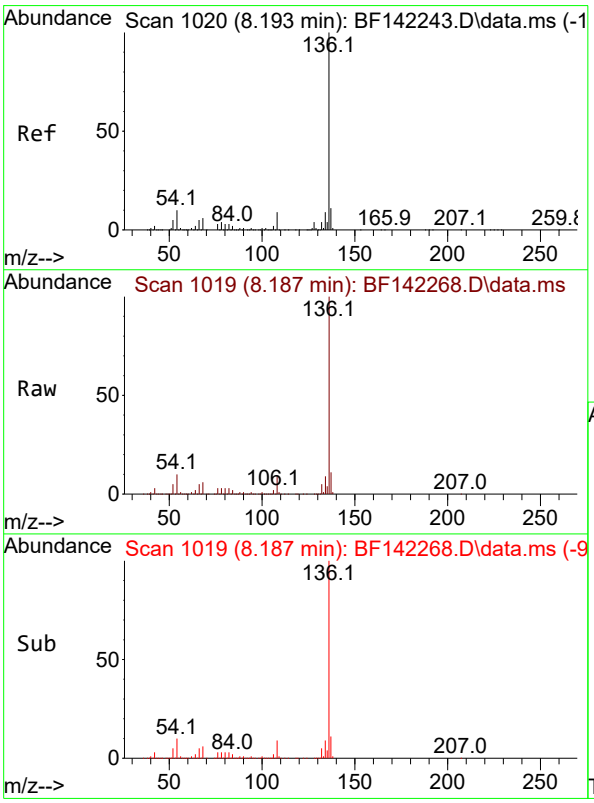
Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	31.9	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

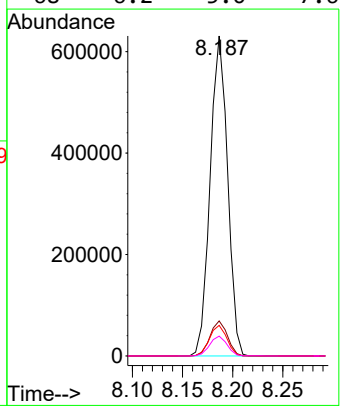
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

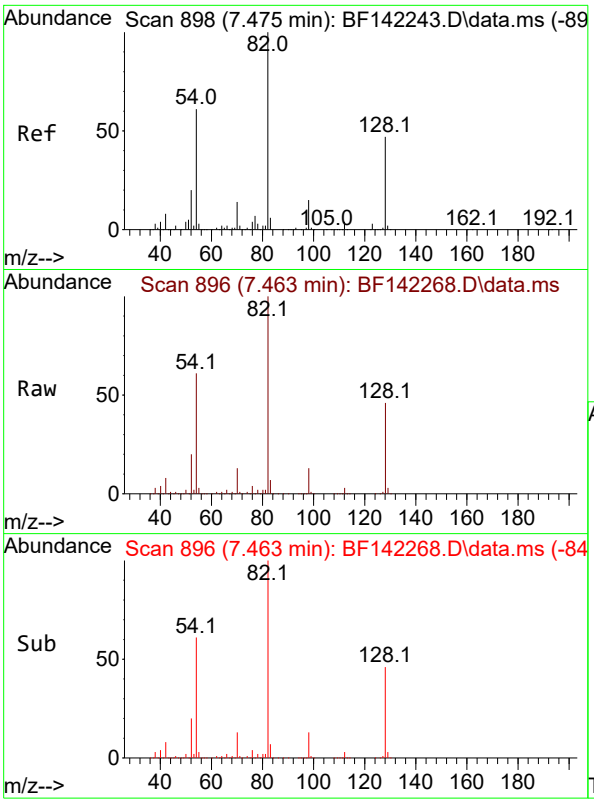


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:136 Resp: 764165

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.5	7.7	11.5
68	6.2	5.0	7.6





#23
Nitrobenzene-d5
Concen: 76.318 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

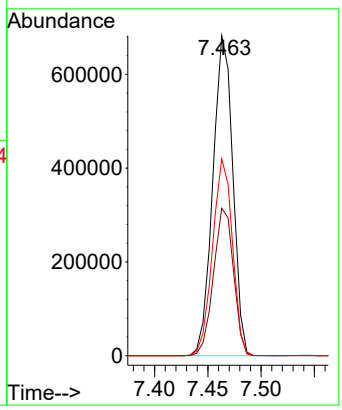
Tgt Ion: 82 Resp: 88770

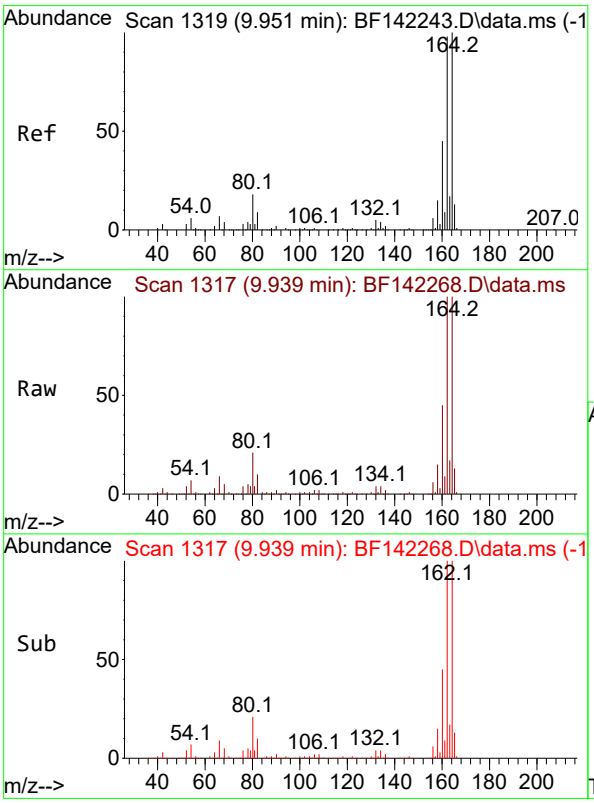
Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.0	55.6
54	61.5	48.0	72.0

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

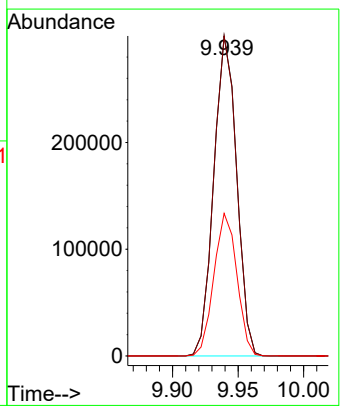


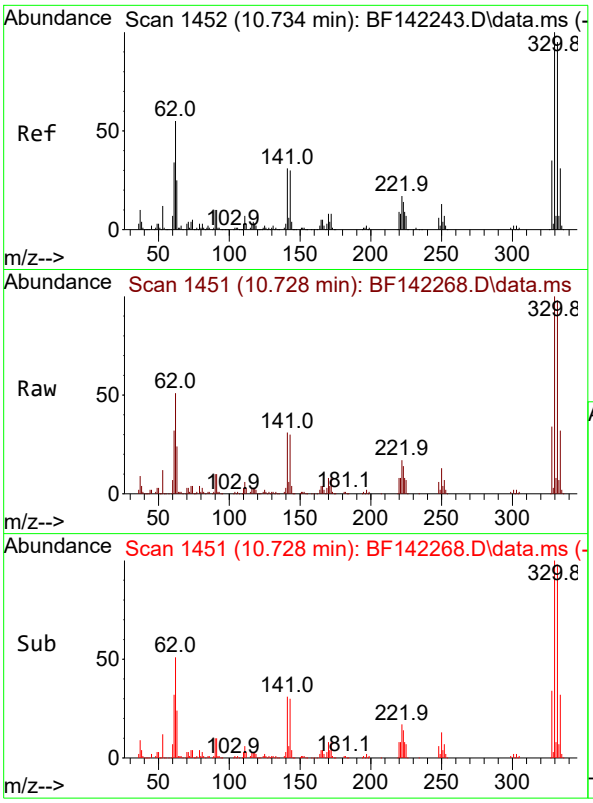


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:164 Resp: 363631

Ion	Ratio	Lower	Upper
164	100		
162	99.9	78.6	117.8
160	44.6	35.7	53.5

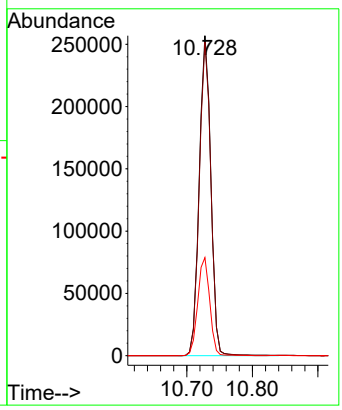




#42
2,4,6-Tribromophenol
Concen: 95.472 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:330 Resp: 31649

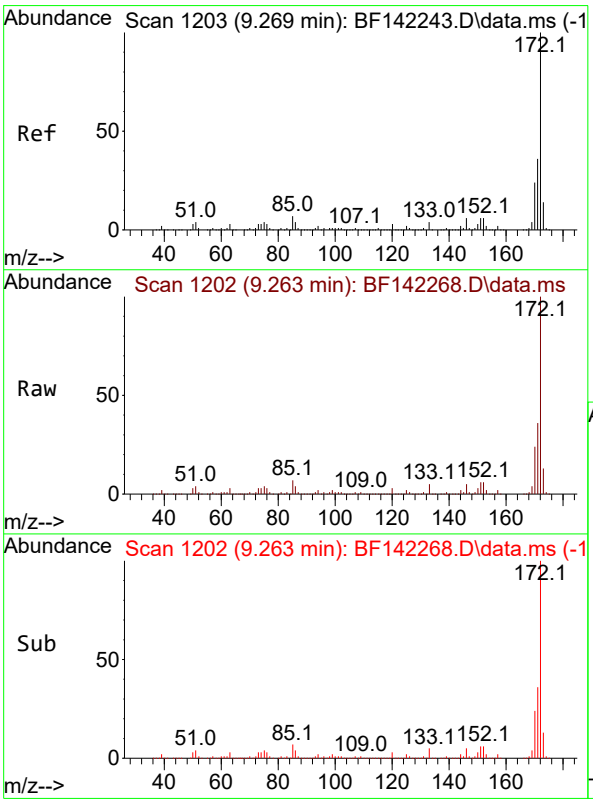
Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.5	114.7
141	31.6	24.3	36.5



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations
APPROVED

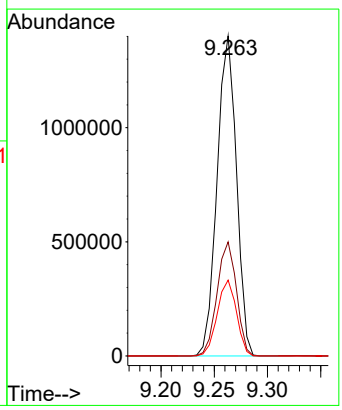
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

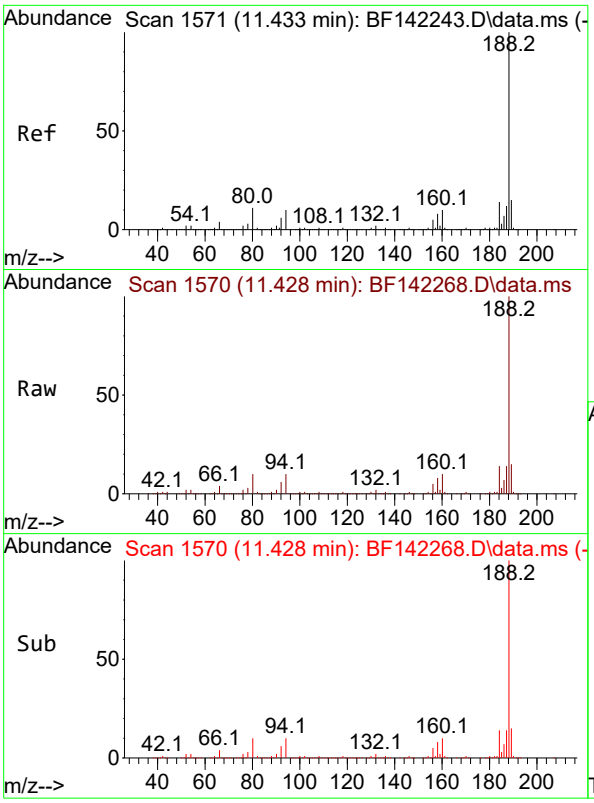


#45
2-Fluorobiphenyl
Concen: 68.656 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:172 Resp: 1770634

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.7	19.4	29.0

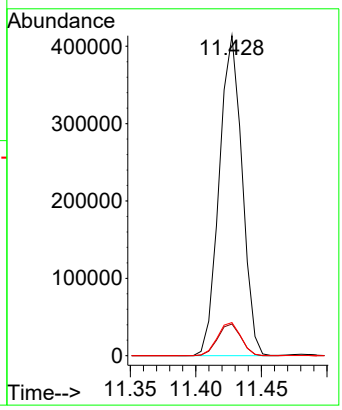




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:188 Resp: 50173

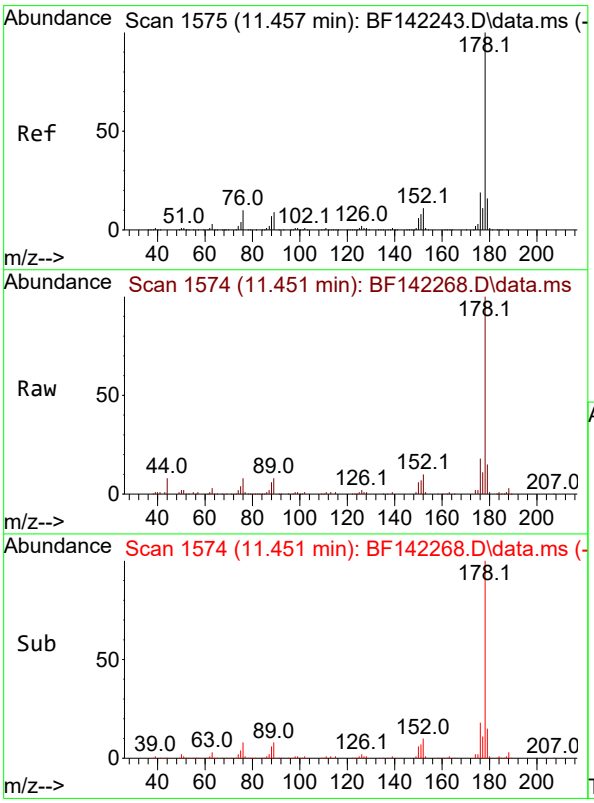
Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.4	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations
APPROVED

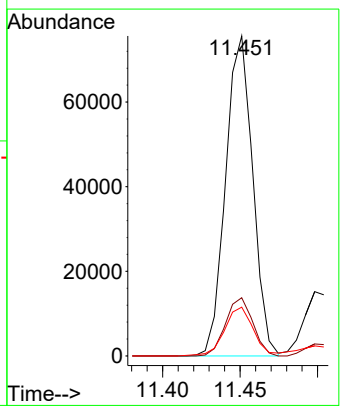
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

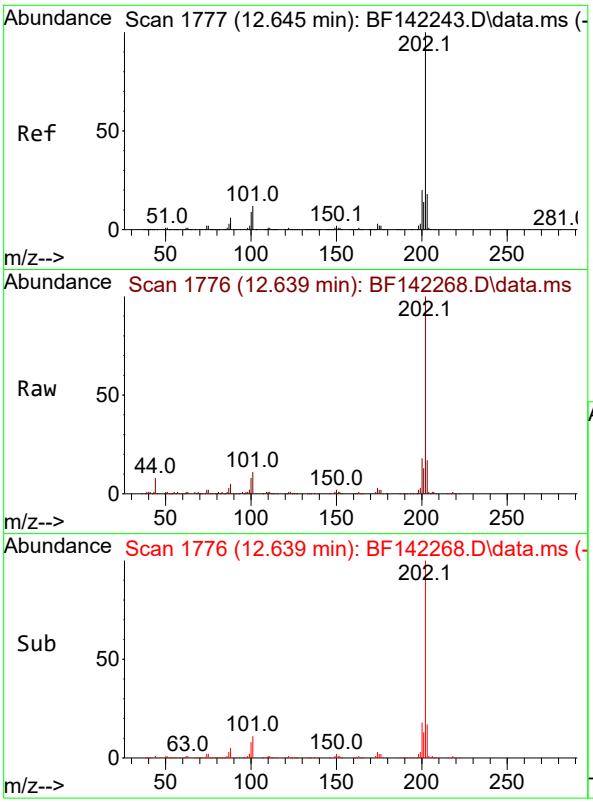


#71
Phenanthrene
Concen: 3.395 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:178 Resp: 92016

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.5	23.3
179	15.2	12.6	19.0

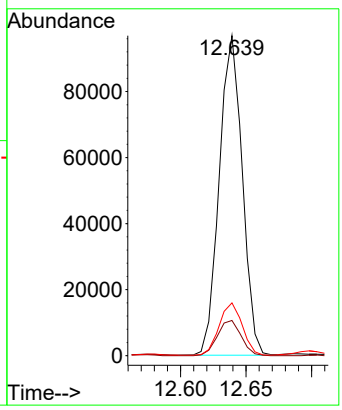




#75
Fluoranthene
Concen: 4.405 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:202 Resp: 11802

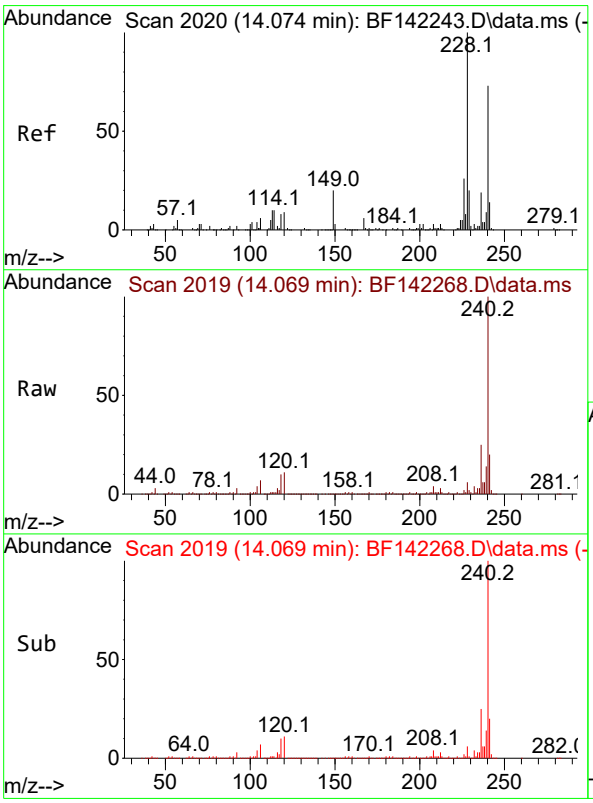
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	32.4
203	16.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

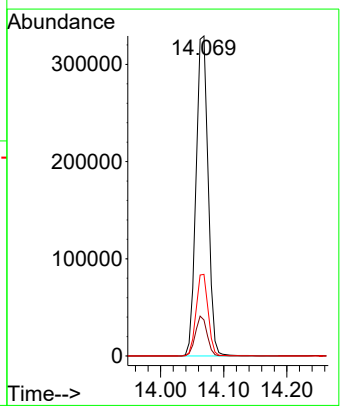
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

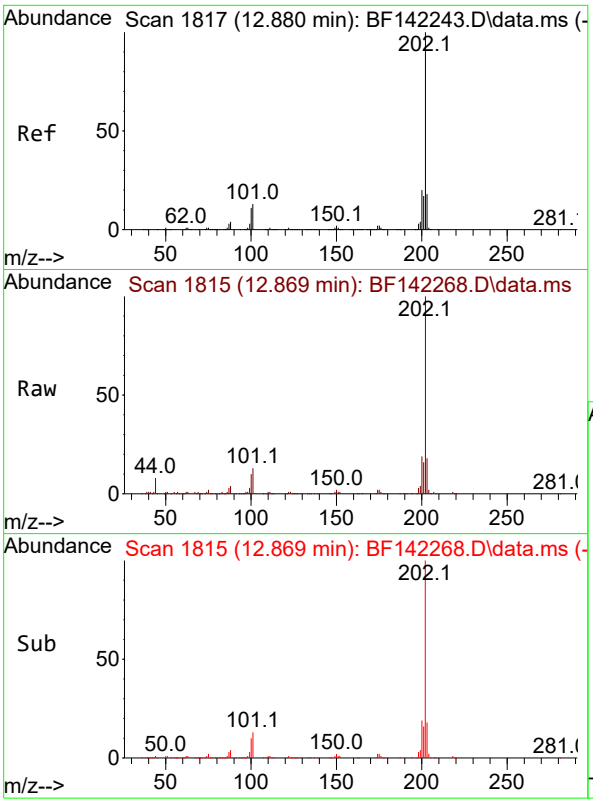


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:240 Resp: 437339

Ion	Ratio	Lower	Upper
240	100		
120	11.2	10.1	15.1
236	25.5	20.5	30.7

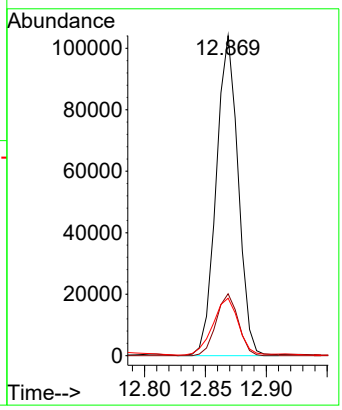




#78
Pyrene
Concen: 3.247 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:202 Resp: 13097

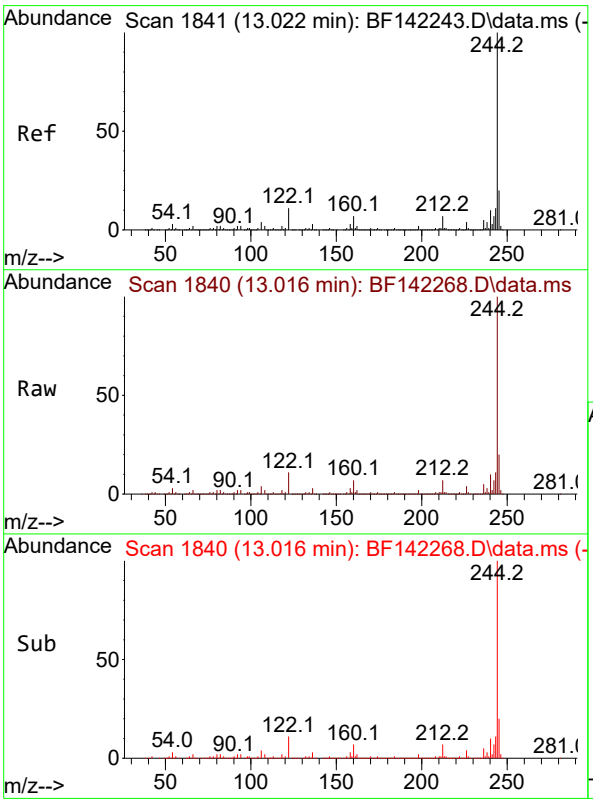
Ion	Ratio	Lower	Upper
202	100		
200	19.3	16.1	24.1
203	18.0	14.1	21.1



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations
APPROVED

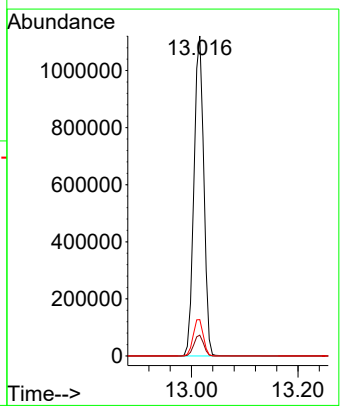
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

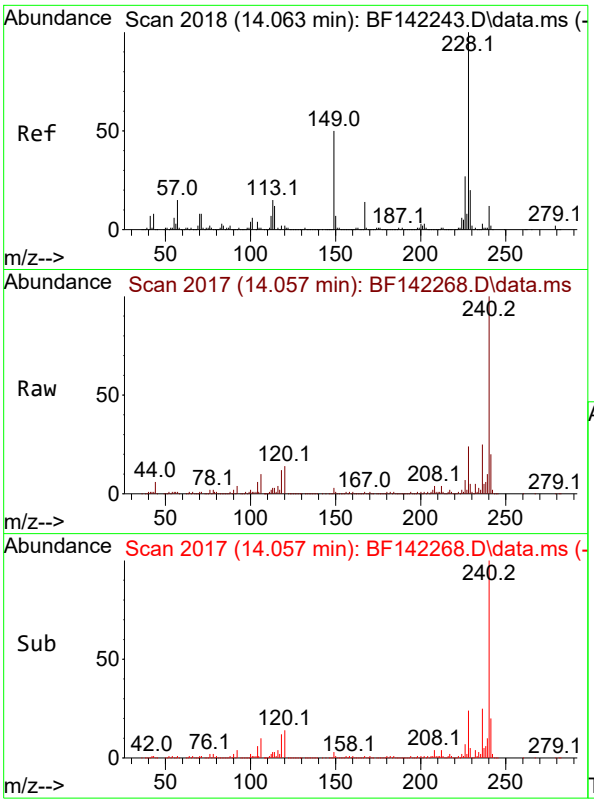


#79
Terphenyl-d14
Concen: 47.556 ng
RT: 13.016 min Scan# 1840
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:244 Resp: 1430017

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	11.3	9.1	13.7

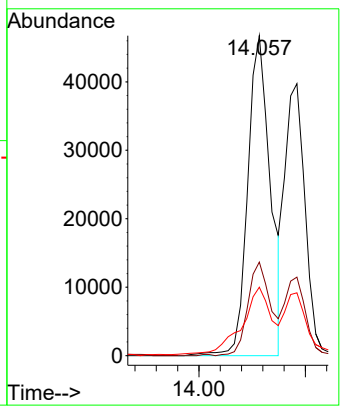




#81
Benzo(a)anthracene
Concen: 2.356 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:228 Resp: 6918

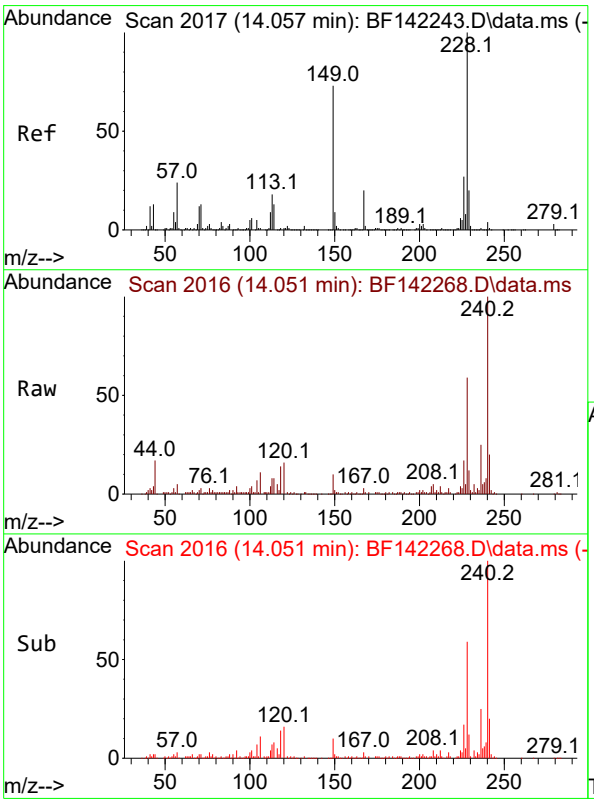
Ion	Ratio	Lower	Upper
228	100		
226	29.2	21.9	32.9
229	21.4	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

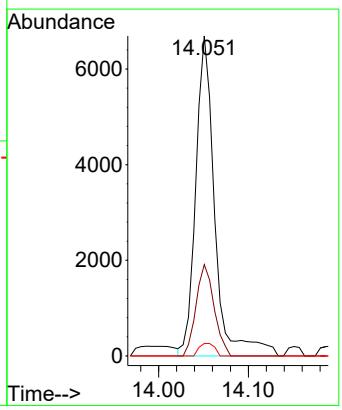
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

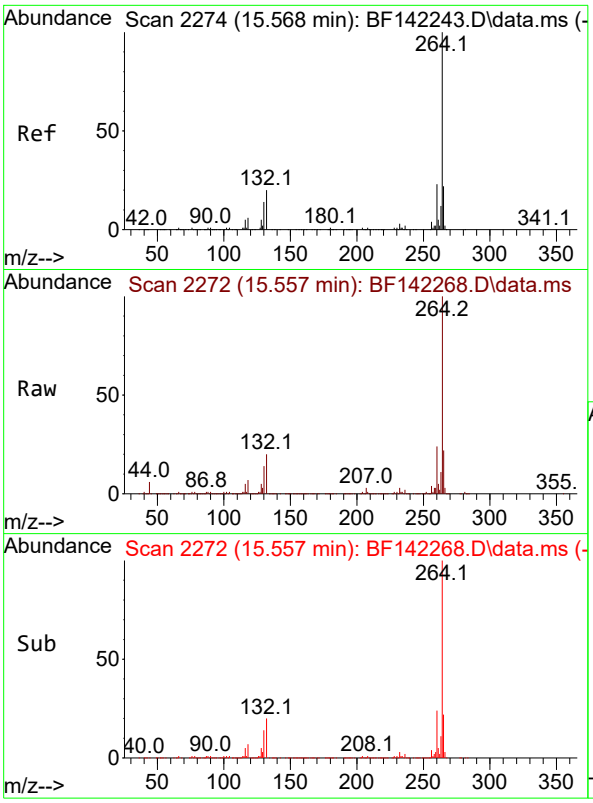


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.052 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:149 Resp: 9843

Ion	Ratio	Lower	Upper
149	100		
167	28.6	21.7	32.5
279	3.9	3.0	4.4

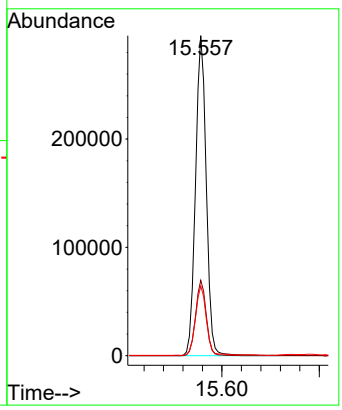




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:264 Resp: 45470

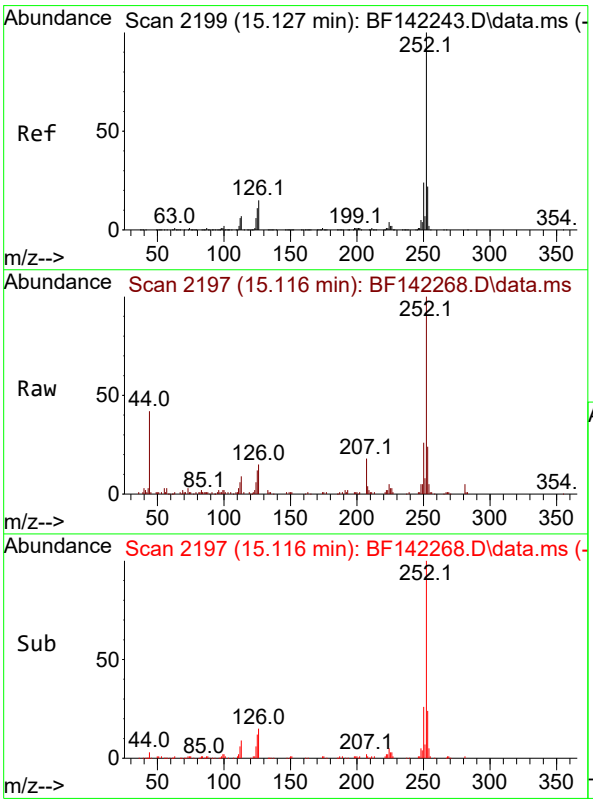
Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.4	27.6
265	21.8	17.3	25.9



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

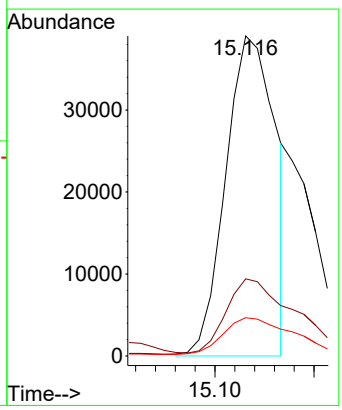
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#88
Benzo(b)fluoranthene
Concen: 2.413 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:252 Resp: 68147

Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.7	26.5
125	12.0	9.0	13.4



Sample Results: **BF142268.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142268.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.316	14	21	31	rVB2	61821	104032	2.03%	0.288%
2	5.128	490	499	509	rVB	345774	542647	10.60%	1.501%
3	5.522	559	566	571	rBV	3123242	4406681	86.11%	12.190%
4	6.522	729	736	741	rBV	3210981	4586593	89.63%	12.687%
5	6.904	796	801	806	rVB	990793	1212302	23.69%	3.353%
6	7.463	890	896	901	rBV	2146315	2809135	54.90%	7.771%
7	7.716	935	939	943	rVB	51601	60763	1.19%	0.168%
8	8.187	1013	1019	1027	rBV	1279895	1580689	30.89%	4.372%
9	9.263	1196	1202	1207	rBV	4041357	5117237	100.00%	14.155%
10	9.939	1312	1317	1322	rBV	1272498	1557655	30.44%	4.309%
11	10.651	1433	1438	1443	rBV	590376	733968	14.34%	2.030%
12	10.728	1445	1451	1456	rBV	1932792	2429783	47.48%	6.721%
13	10.963	1482	1491	1495	rBV	37701	52475	1.03%	0.145%
14	11.428	1565	1570	1578	rBV2	1024684	1466179	28.65%	4.056%
15	11.498	1578	1582	1586	rVB	41975	54469	1.06%	0.151%
16	11.651	1603	1608	1617	rBV	171831	241763	4.72%	0.669%
17	11.951	1651	1659	1664	rBV2	186717	300023	5.86%	0.830%
18	12.039	1670	1674	1684	rVB	41160	78544	1.53%	0.217%
19	12.210	1698	1703	1714	rVB2	293250	401290	7.84%	1.110%
20	12.639	1771	1776	1782	rBV	218200	277995	5.43%	0.769%
21	12.733	1788	1792	1799	rBV2	54708	83843	1.64%	0.232%
22	12.869	1808	1815	1821	rBV	229100	324972	6.35%	0.899%
23	13.016	1834	1840	1845	rVB	2998466	3849663	75.23%	10.649%
24	13.910	1988	1992	2002	rVB	152371	230126	4.50%	0.637%
25	14.063	2012	2018	2031	rVB2	991615	1542539	30.14%	4.267%
26	14.545	2095	2100	2103	rBV3	43592	65918	1.29%	0.182%
27	14.939	2162	2167	2176	rVV2	42308	71962	1.41%	0.199%
28	15.116	2192	2197	2208	rBV	105644	249724	4.88%	0.691%
29	15.221	2209	2215	2222	rVB3	26927	66167	1.29%	0.183%
30	15.427	2245	2250	2255	rBV	60169	90811	1.77%	0.251%
31	15.486	2256	2260	2266	rVV	77408	114728	2.24%	0.317%
32	15.557	2266	2272	2289	rVB	798337	1282112	25.05%	3.547%
33	16.098	2361	2364	2374	rVB4	27687	56638	1.11%	0.157%
34	17.051	2522	2526	2535	rVB2	24909	51275	1.00%	0.142%
35	17.498	2598	2602	2613	rVB2	24012	56045	1.10%	0.155%

Sample Results: **BF142268.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 36150746

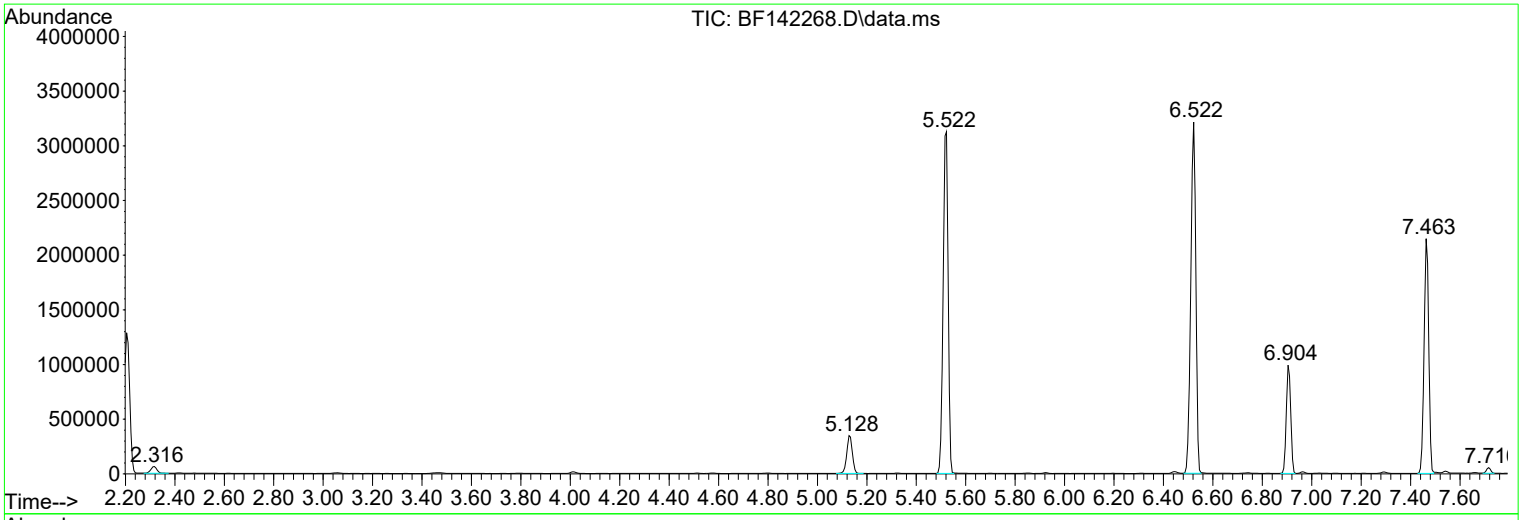
Sample Results: **BF142268.D**

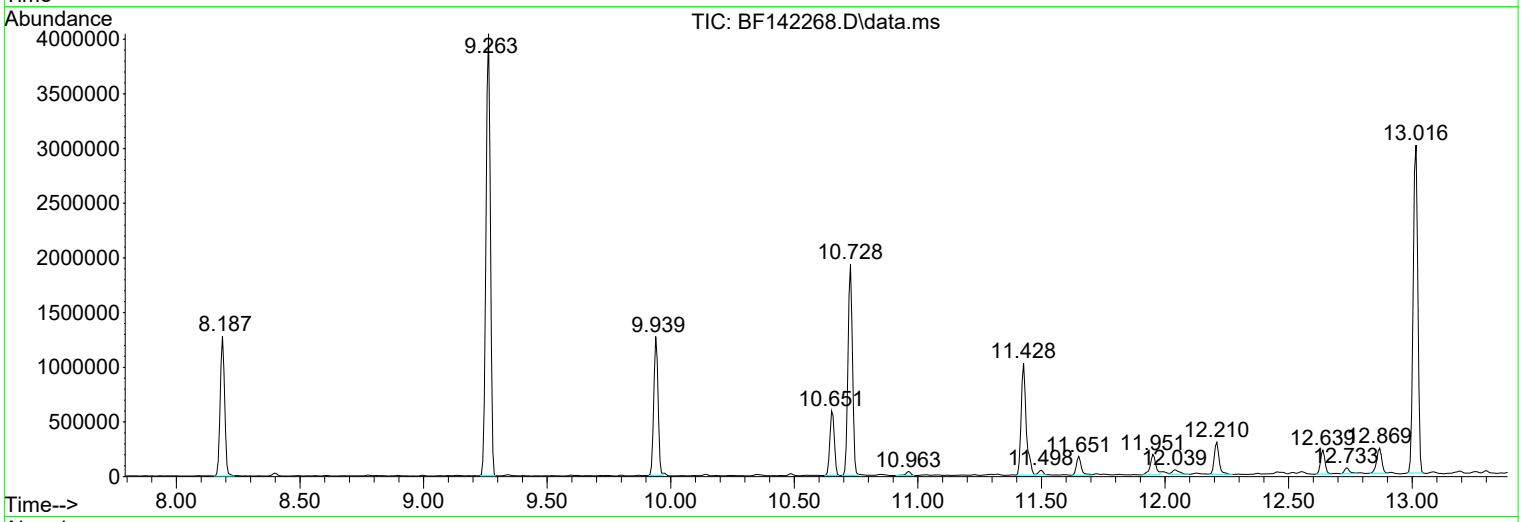
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

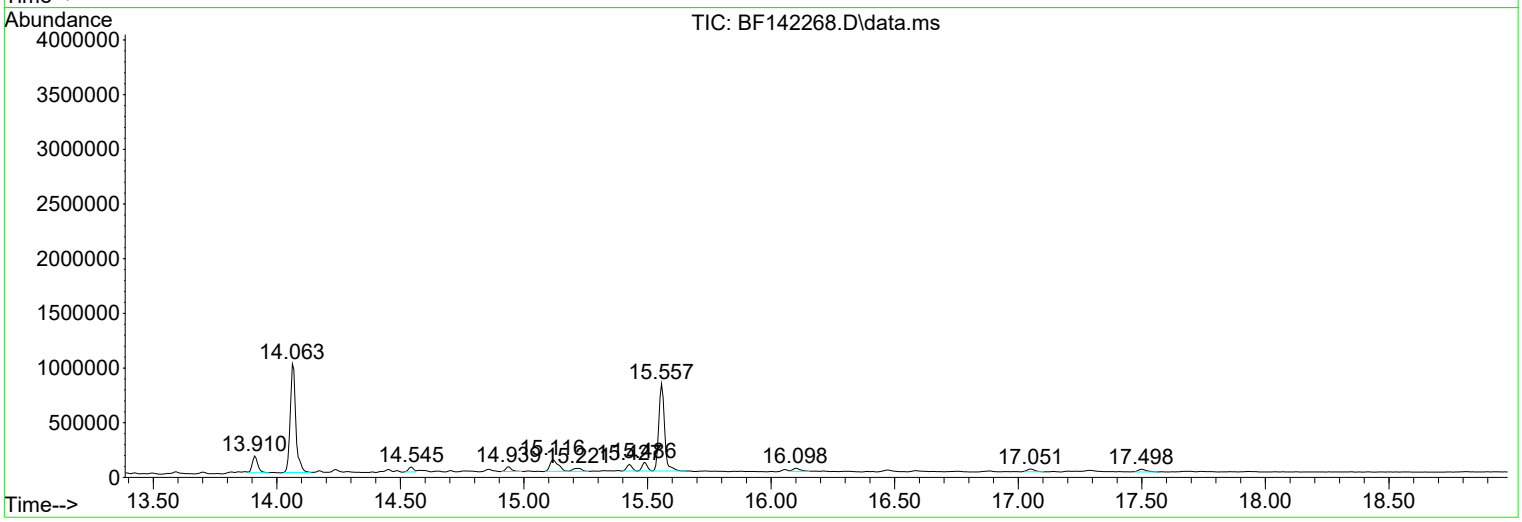
Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

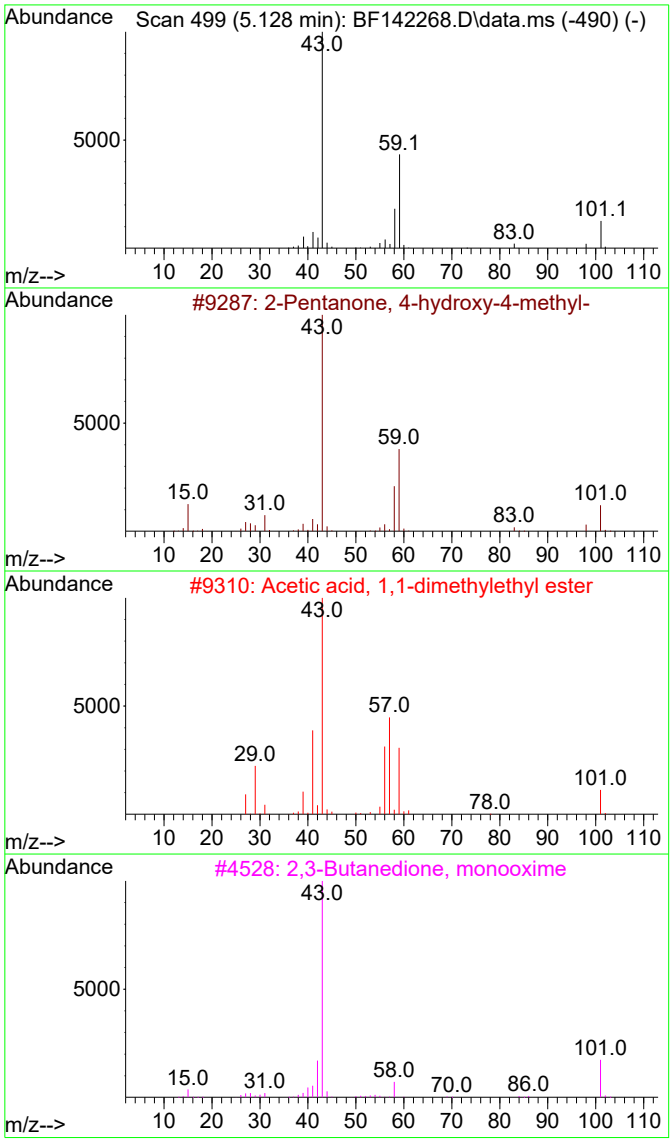
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

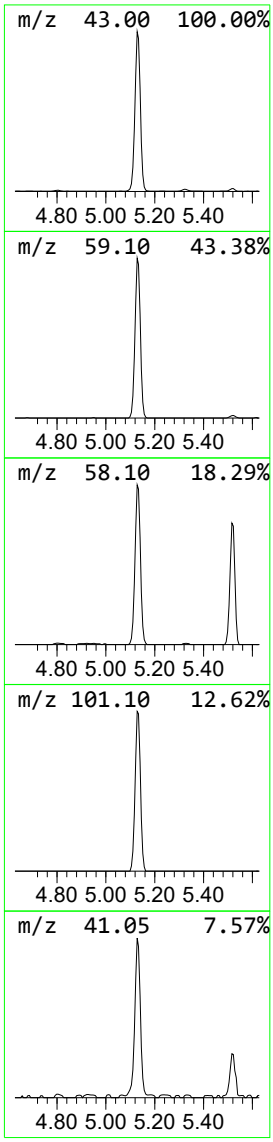
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	8.95 ng	542647	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	83
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

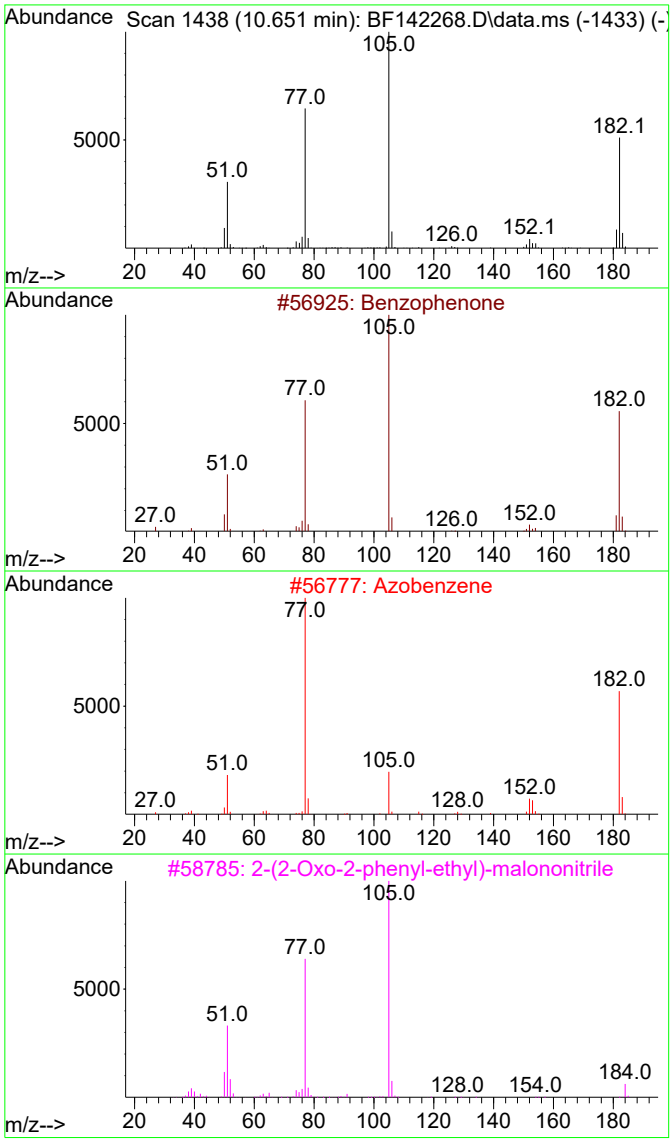
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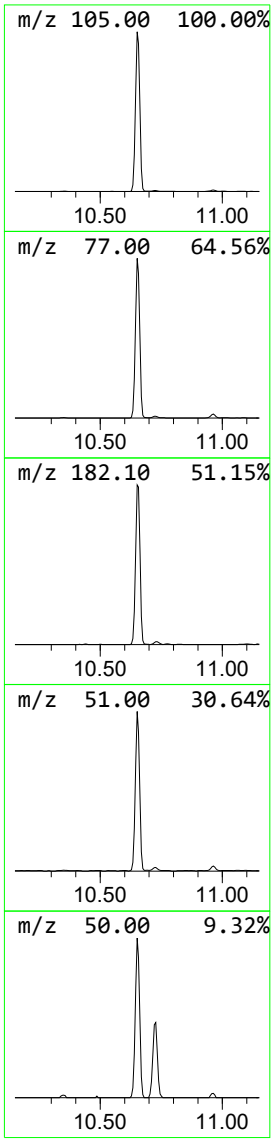
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Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	9.42 ng	733968	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	58
3	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	58
4	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	52
5	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

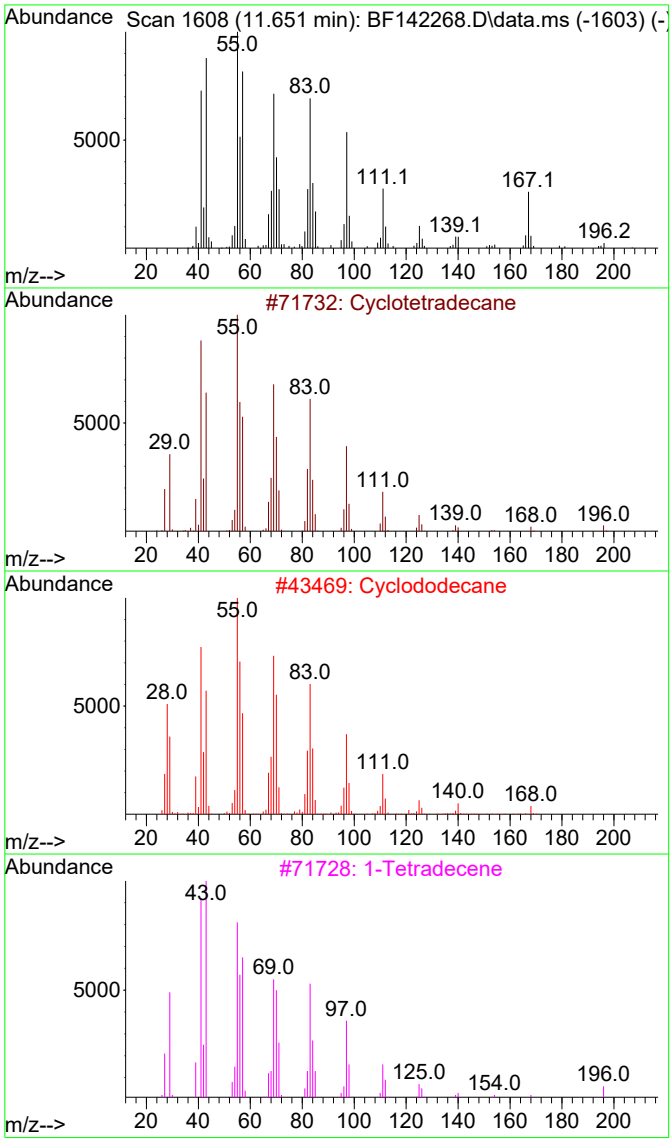
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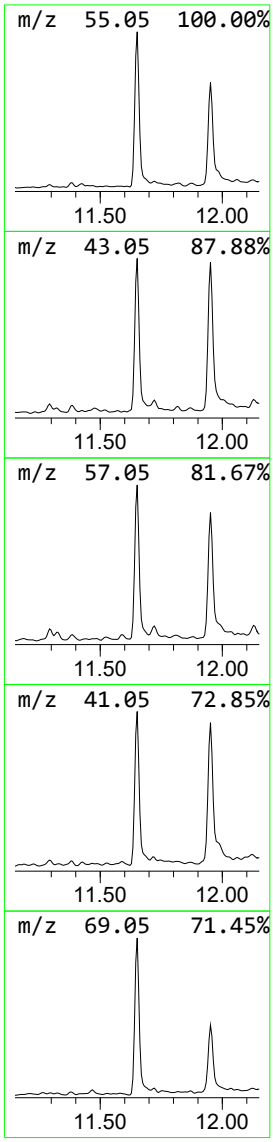
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Peak Number 3 Cyclotetradecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.651	3.30 ng	241763	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	96
2	Cyclododecane	168	C12H24	000294-62-2	96
3	1-Tetradecene	196	C14H28	001120-36-1	95
4	1-Hexadecanol	242	C16H34O	036653-82-4	93
5	5-Tetradecene, (Z)-	196	C14H28	041446-62-2	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

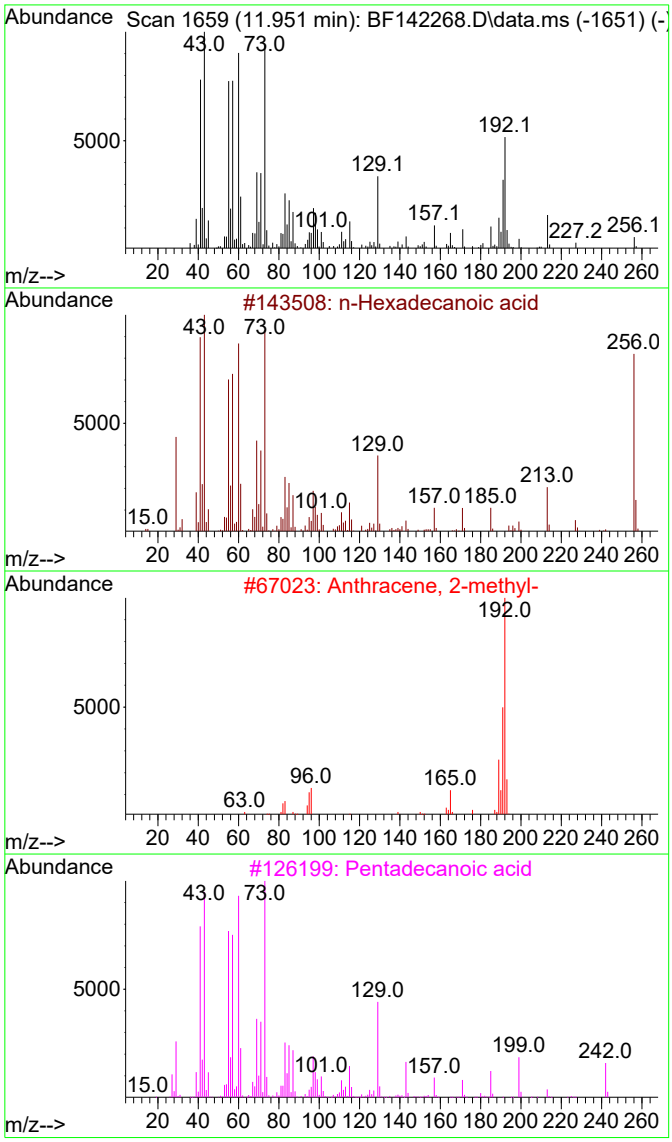
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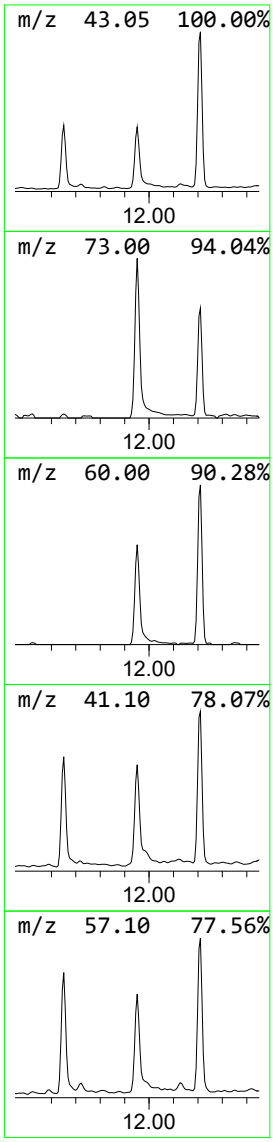
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	4.09 ng	300023	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	70
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	56
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

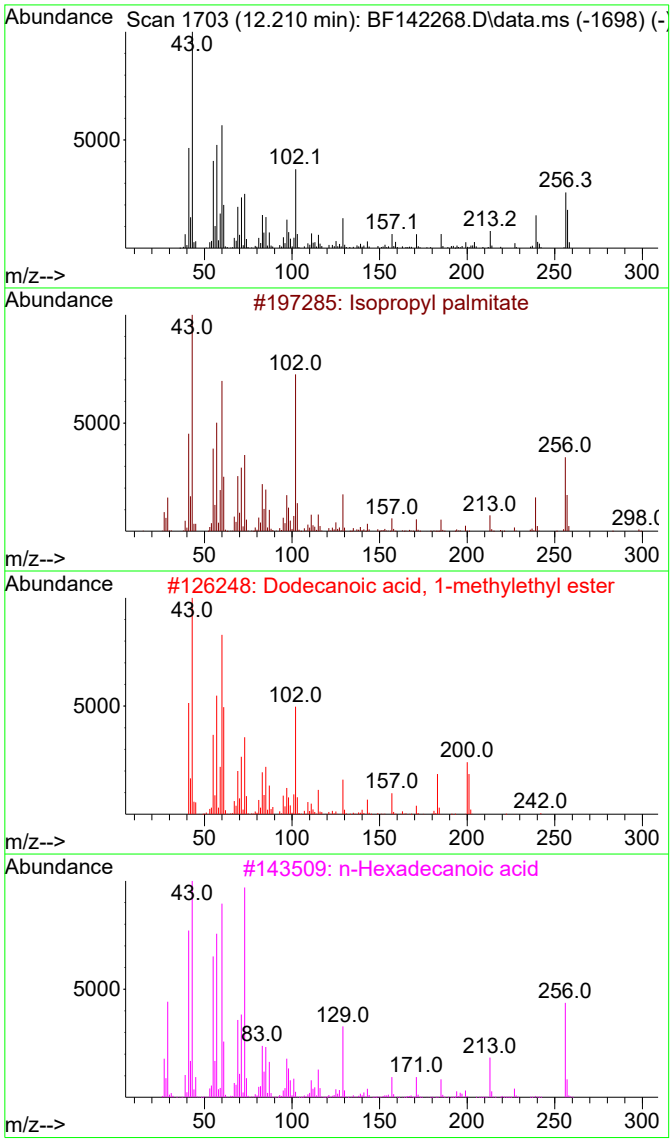
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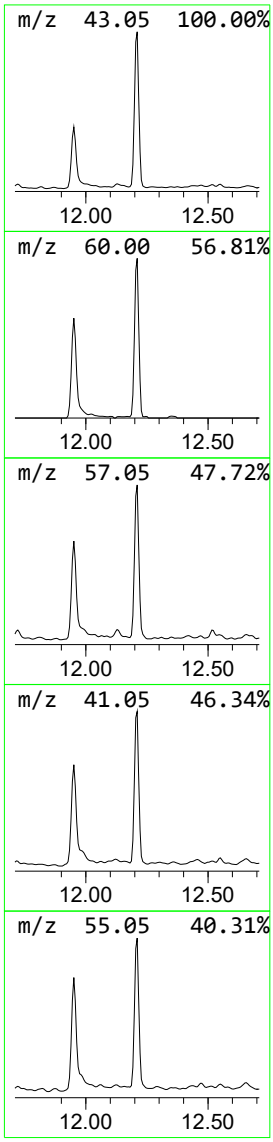
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Peak Number 5 Isopropyl palmitate Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.210	5.47 ng	401290	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl palmitate	298	C19H38O2	000142-91-6	91
2	Dodecanoic acid, 1-methylethyl e...	242	C15H30O2	010233-13-3	64
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64
4	n-Capric acid isopropyl ester	214	C13H26O2	002311-59-3	50
5	8-Methylnonanoic acid, isopropyl...	214	C13H26O2	1000452-00-6	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

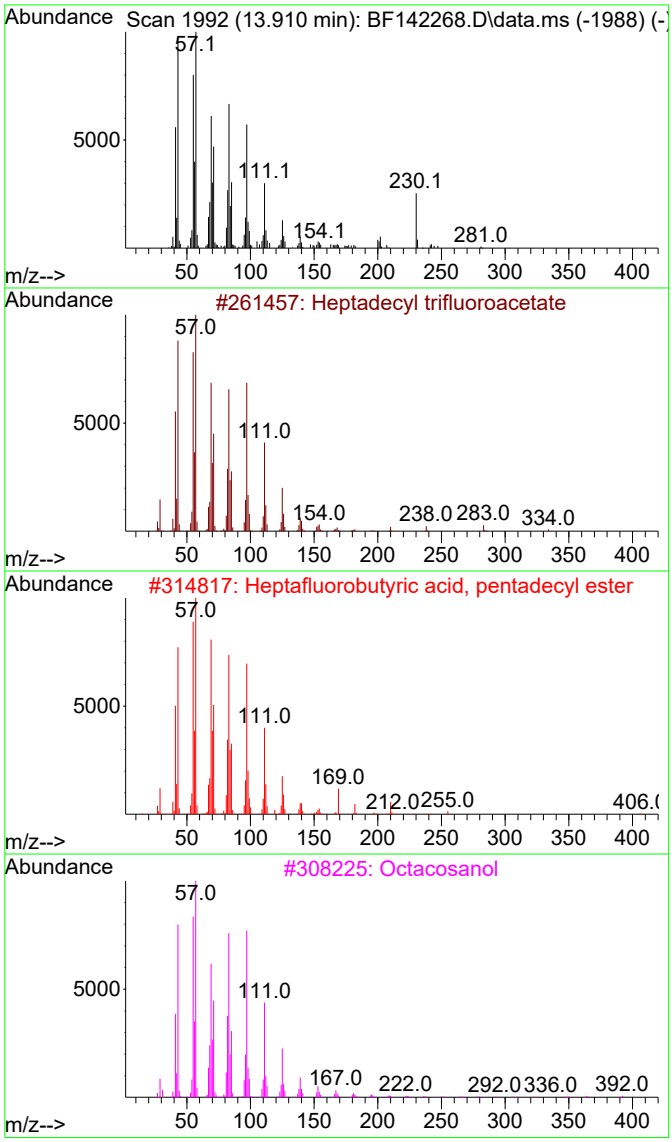
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

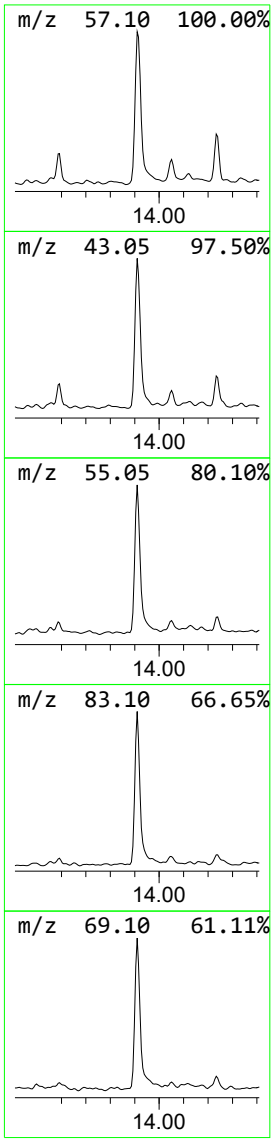
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Heptadecyl trifluoroacetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	2.98 ng	230126	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93
2	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93
3	Octacosanol	410	C28H58O	000557-61-9	93
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	90
5	1-Hexacosene	364	C26H52	018835-33-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.128	8.9	ng	542647	1	6.904	1212300	20.0
Benzophenone	10.651	9.4	ng	733968	3	9.939	1557660	20.0
Cyclotetradecane	11.651	3.3	ng	241763	4	11.428	1466180	20.0
n-Hexadecanoic ...	11.951	4.1	ng	300023	4	11.428	1466180	20.0
Isopropyl palmi...	12.210	5.5	ng	401290	4	11.428	1466180	20.0
Heptadecyl trif...	13.910	3.0	ng	230126	5	14.069	1542540	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Quant Time: May 02 01:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.751	152	274480	20.000	ng		-0.02
21) Naphthalene-d8	10.539	136	1008897	20.000	ng		-0.02
39) Acenaphthene-d10	14.392	164	706272	20.000	ng		-0.02
64) Phenanthrene-d10	17.145	188	1455099	20.000	ng		-0.01
76) Chrysene-d12	21.380	240	1407668	20.000	ng		-0.02
86) Perylene-d12	24.374	264	1408737	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.346	112	250744	15.996	ng		-0.01
7) Phenol-d6	6.940	99	318577	16.170	ng		-0.01
23) Nitrobenzene-d5	8.910	82	183326	8.954	ng		-0.02
42) 2,4,6-Tribromophenol	15.892	330	166388	15.933	ng		-0.01
45) 2-Fluorobiphenyl	13.016	172	525870	8.808	ng		-0.02
79) Terphenyl-d14	19.768	244	703185	7.392	ng		-0.01
Target Compounds							Qvalue
31) Naphthalene	10.592	128	175316	3.431	ng		99
52) Acenaphthene	14.457	154	104131	2.744	ng		99
58) Fluorene	15.445	166	148560	2.875	ng		98
71) Phenanthrene	17.186	178	2306825	28.108	ng		99
72) Anthracene	17.274	178	459861	5.537	ng		99
75) Fluoranthene	19.204	202	2273002	23.590	ng		100
78) Pyrene	19.568	202	2240960	22.670	ng		100
81) Benzo(a)anthracene	21.362	228	1056445	10.898	ng		99
83) Chrysene	21.427	228	936460	10.438	ng		98
87) Indeno(1,2,3-cd)pyrene	27.750	276	388788	3.704	ng		98
88) Benzo(b)fluoranthene	23.433	252	895654	9.776	ng	#	97
89) Benzo(k)fluoranthene	23.486	252	270817m	2.922	ng		
90) Benzo(a)pyrene	24.233	252	673773	7.852	ng		97
92) Benzo(g,h,i)perylene	28.797	276	399694	4.879	ng		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

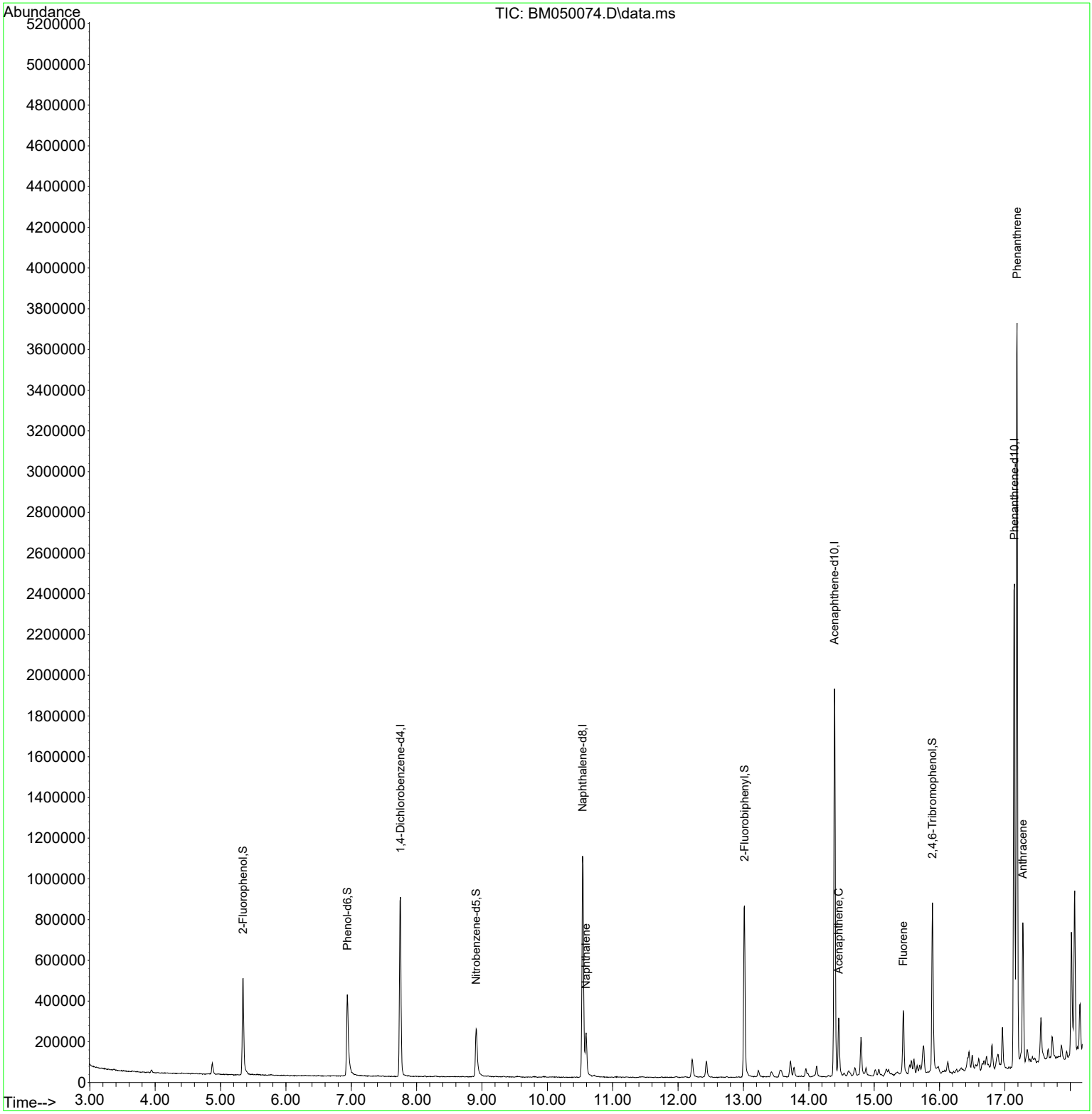
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Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 02 01:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



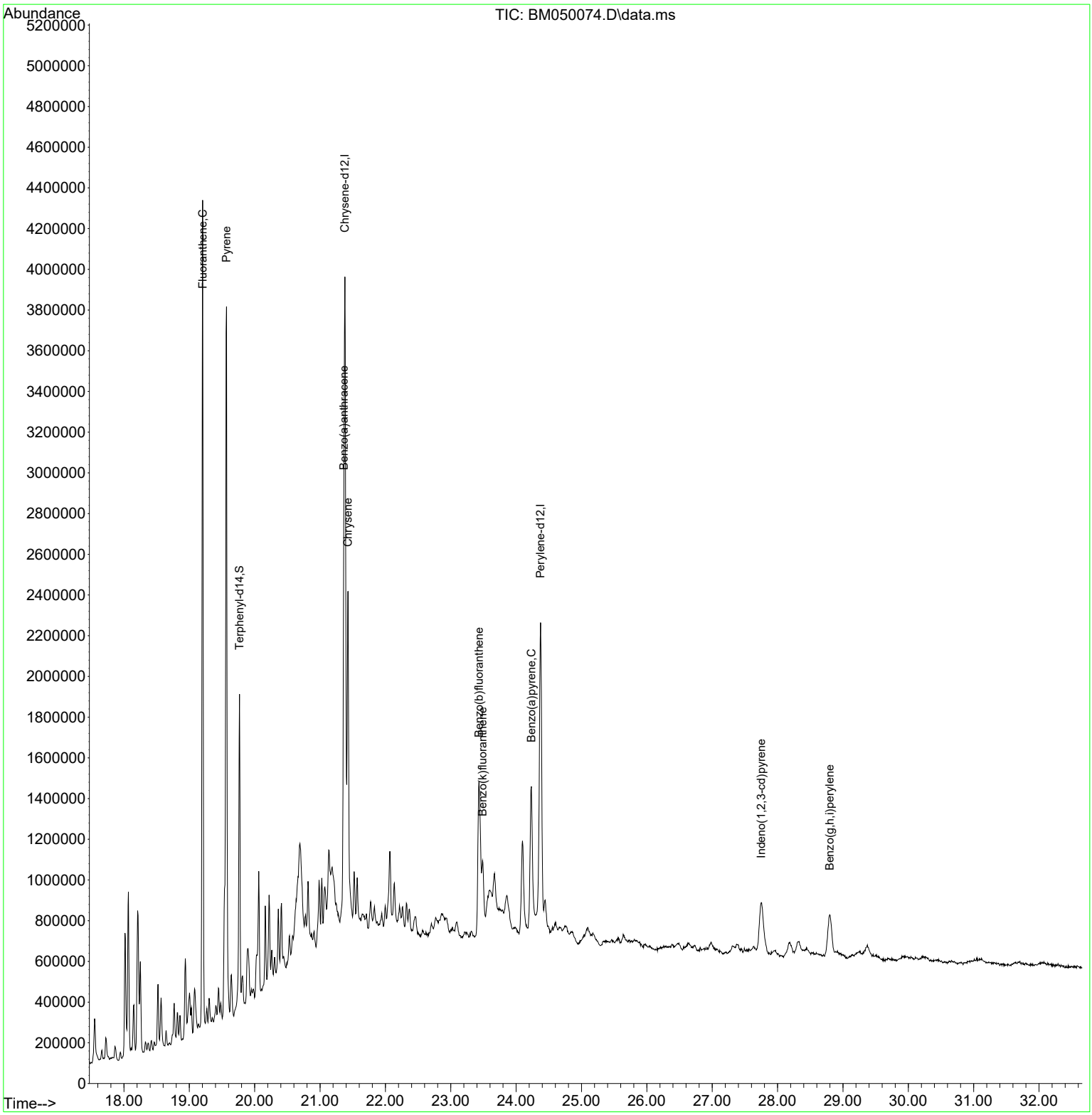
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Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

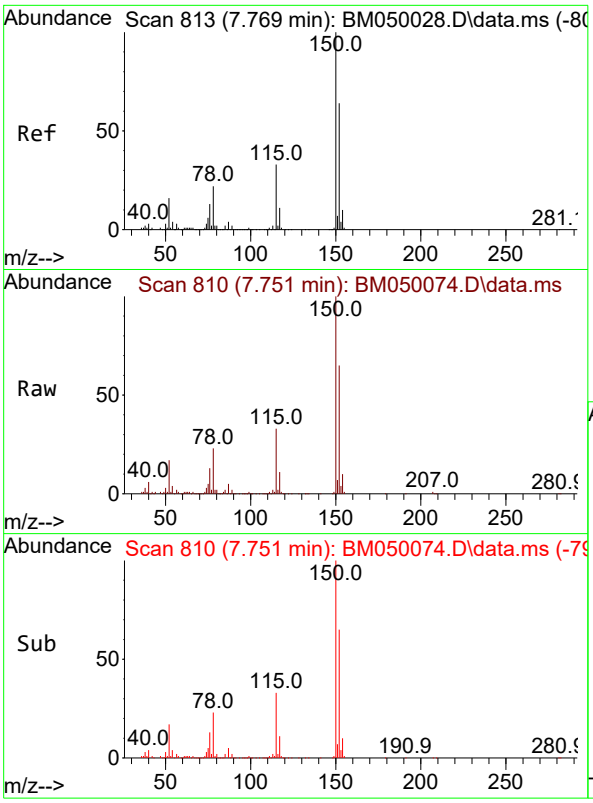
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

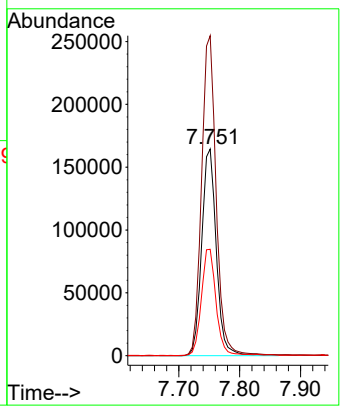




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.751 min Scan# 8
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:152 Resp: 27448

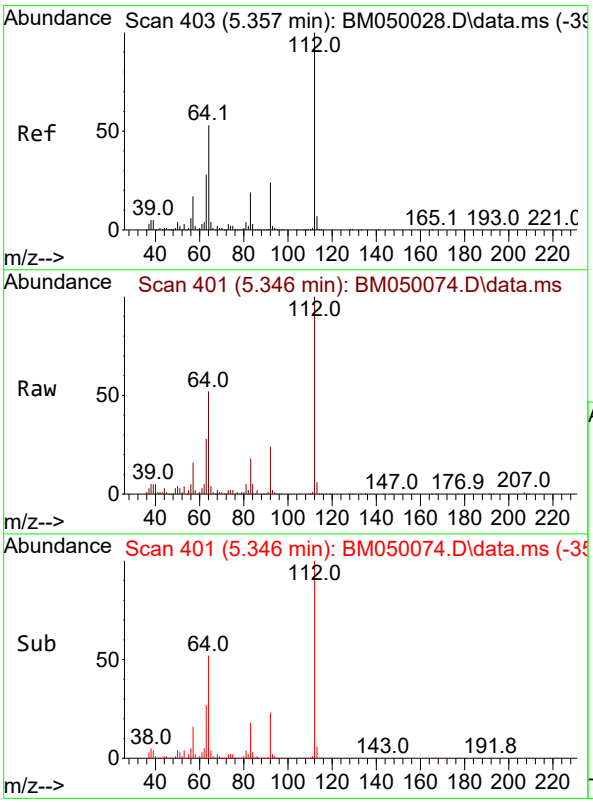
Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.1	186.1
115	51.5	41.2	61.8



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED

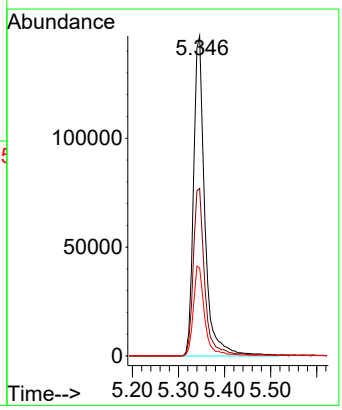
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

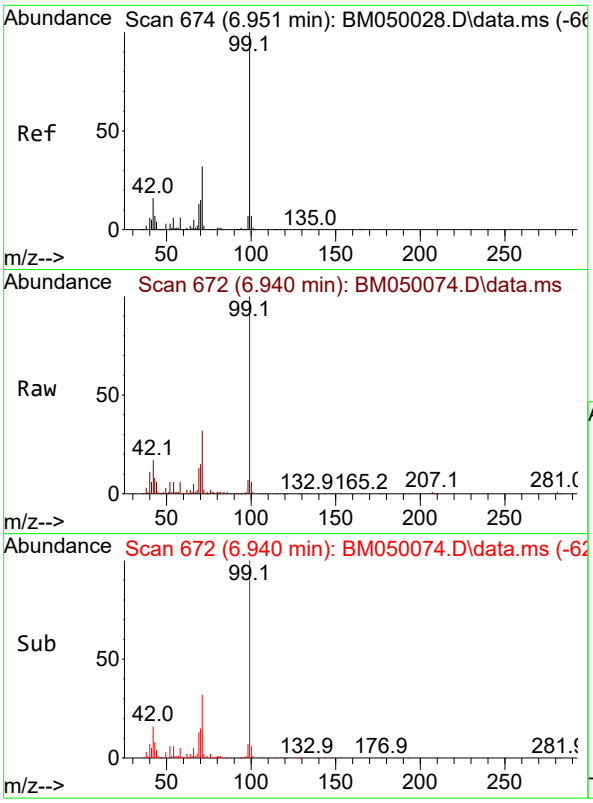


#5
2-Fluorophenol
Concen: 15.996 ng
RT: 5.346 min Scan# 401
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:112 Resp: 250744

Ion	Ratio	Lower	Upper
112	100		
64	52.3	42.6	64.0
63	27.5	22.2	33.4

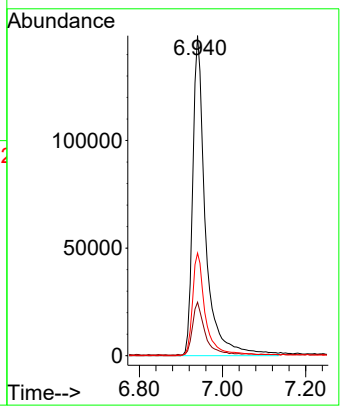




#7
Phenol-d6
Concen: 16.170 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion: 99 Resp: 31857

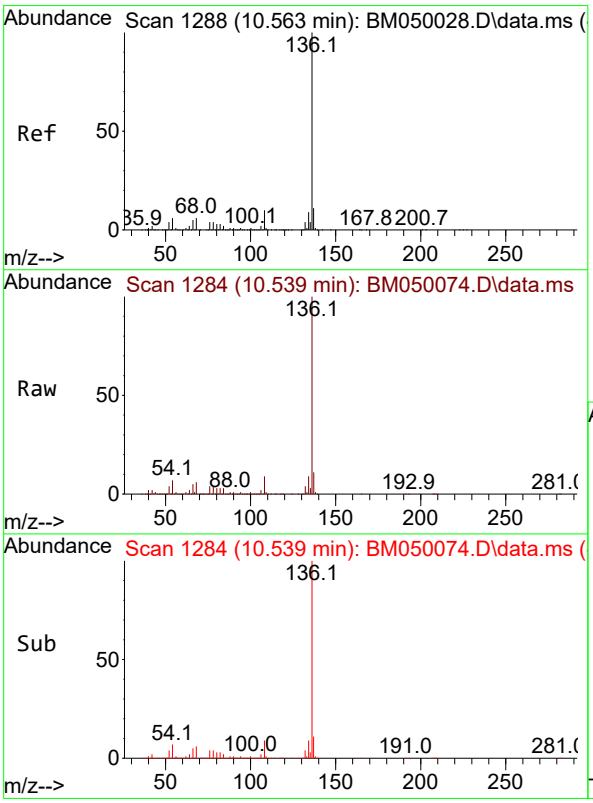
Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.0	19.4
71	32.1	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

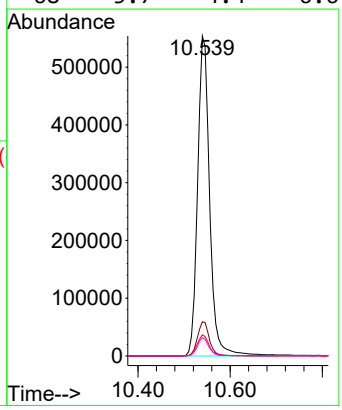
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

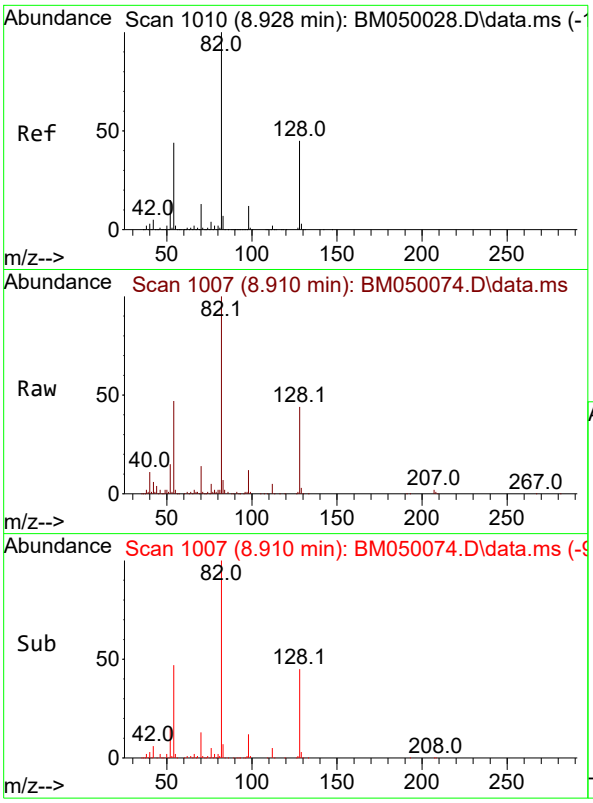


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.023 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:136 Resp: 1008897

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.6	5.1	7.7
68	5.7	4.4	6.6

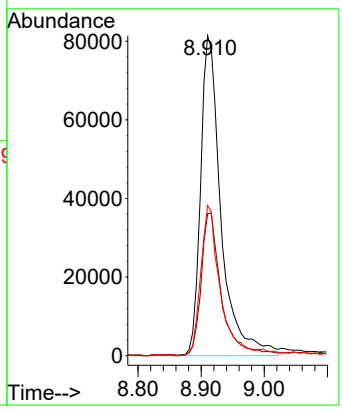




#23
Nitrobenzene-d5
Concen: 8.954 ng
RT: 8.910 min Scan# 1(
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion: 82 Resp: 18332(

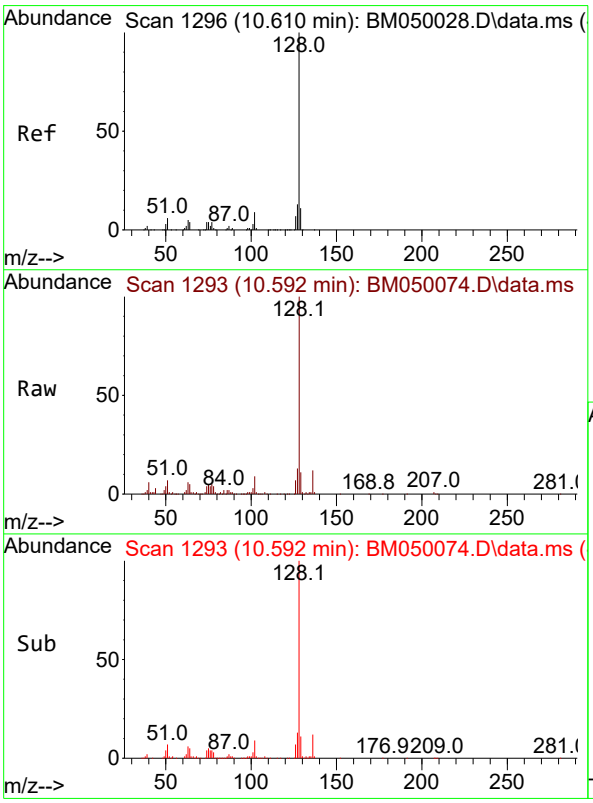
Ion	Ratio	Lower	Upper
82	100		
128	44.4	35.7	53.5
54	47.0	35.4	53.2



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

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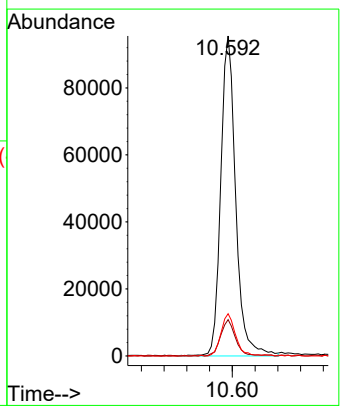
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

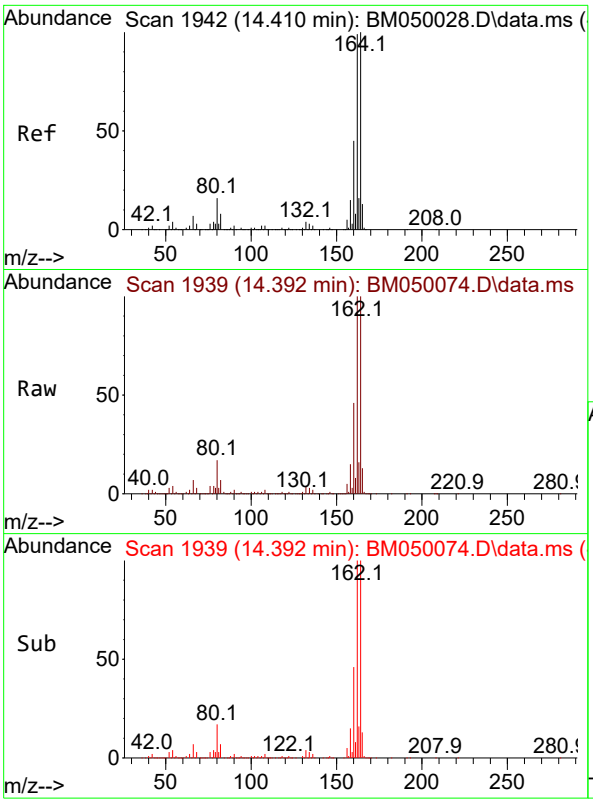


#31
Naphthalene
Concen: 3.431 ng
RT: 10.592 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:128 Resp: 175316

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.2	10.4	15.6

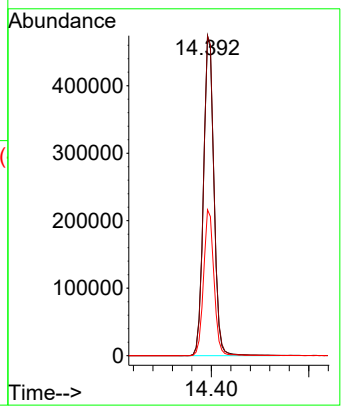




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:164 Resp: 70627

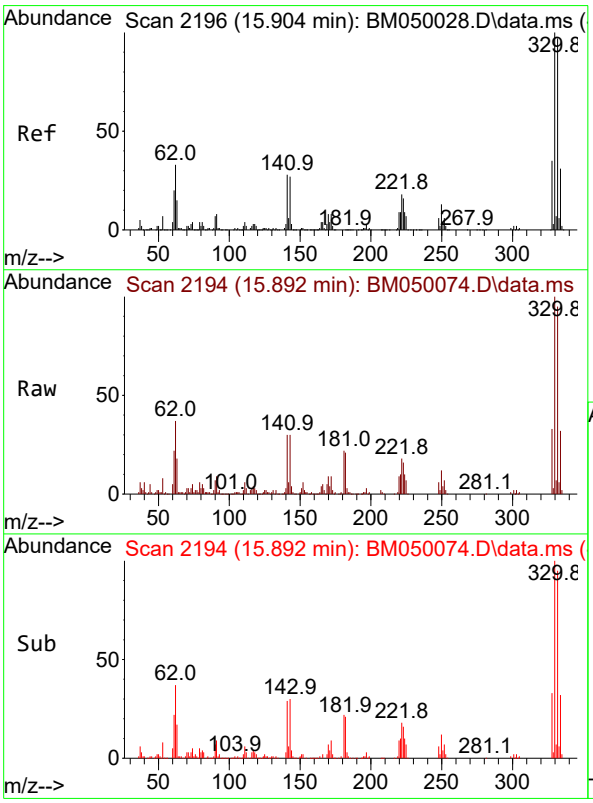
Ion	Ratio	Lower	Upper
164	100		
162	100.1	79.4	119.0
160	45.7	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED

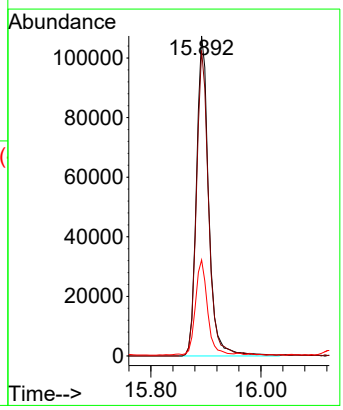
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

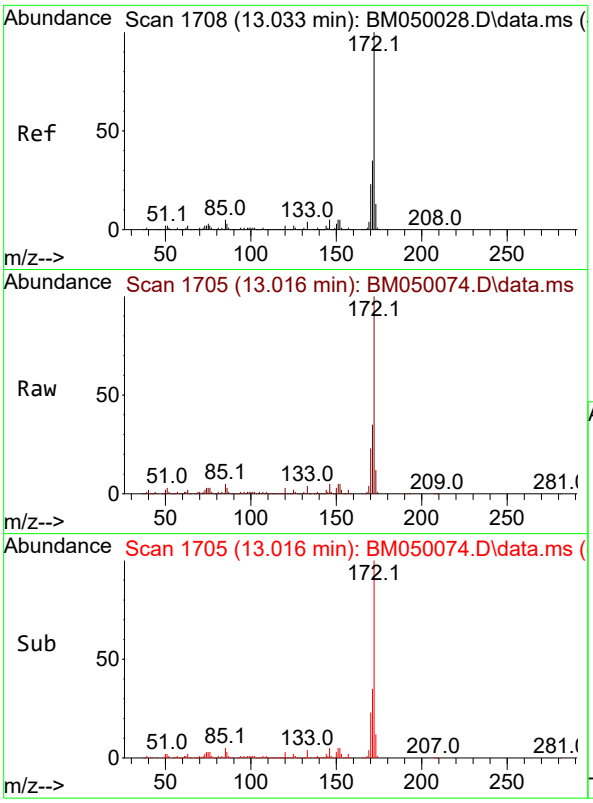


#42
2,4,6-Tribromophenol
Concen: 15.933 ng
RT: 15.892 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:330 Resp: 166388

Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.3	115.9
141	29.5	22.5	33.7

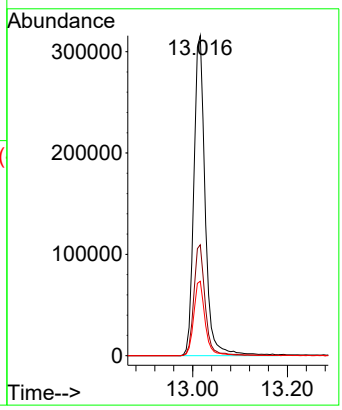




#45
2-Fluorobiphenyl
Concen: 8.808 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:172 Resp: 52587

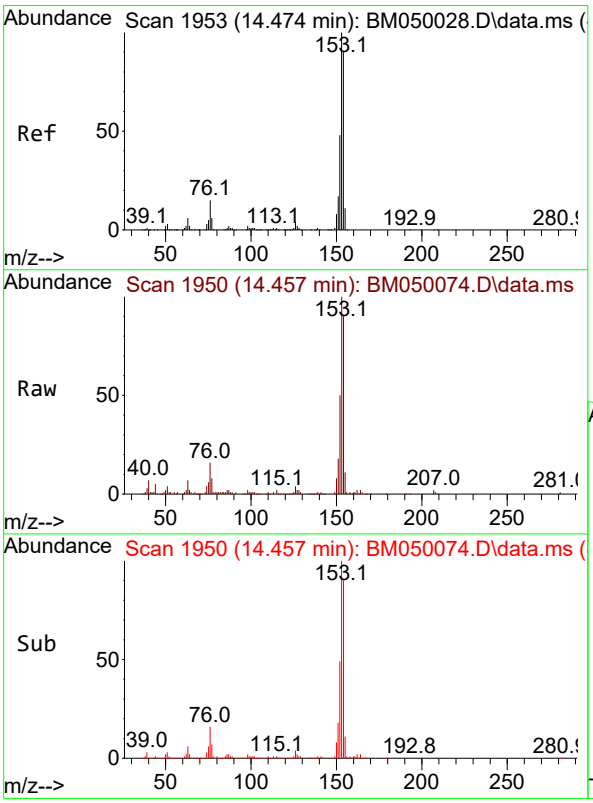
Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	23.3	18.6	28.0



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
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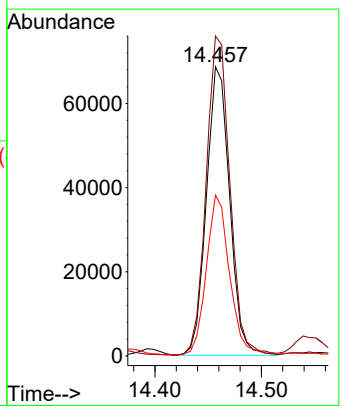
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

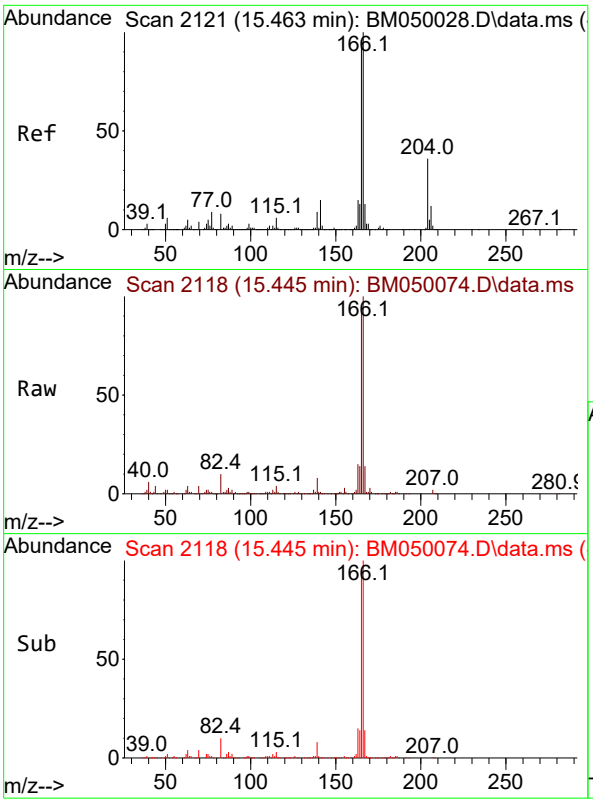


#52
Acenaphthene
Concen: 2.744 ng
RT: 14.457 min Scan# 1950
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:154 Resp: 104131

Ion	Ratio	Lower	Upper
154	100		
153	110.6	89.0	133.4
152	55.6	43.0	64.6





#58
Fluorene
Concen: 2.875 ng
RT: 15.445 min Scan# 2
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

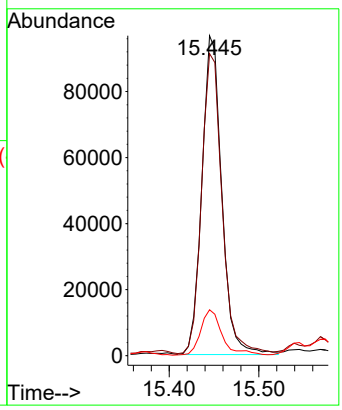
Tgt Ion:166 Resp: 14856

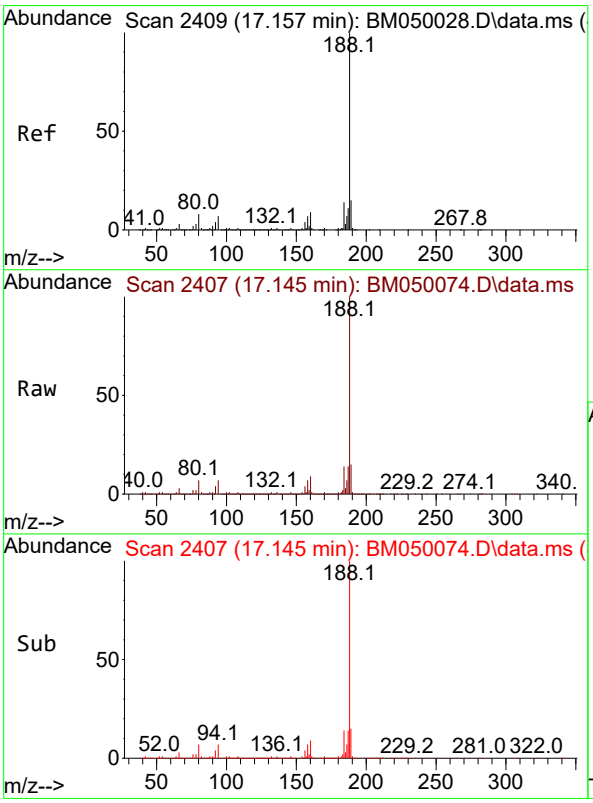
Ion	Ratio	Lower	Upper
166	100		
165	94.4	76.6	115.0
167	14.4	10.6	16.0

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
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Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

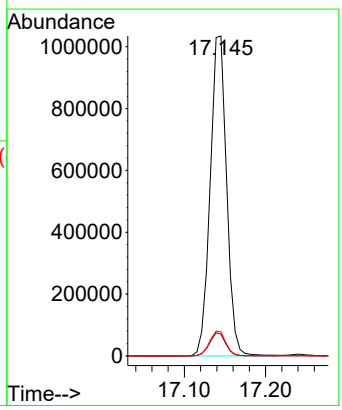


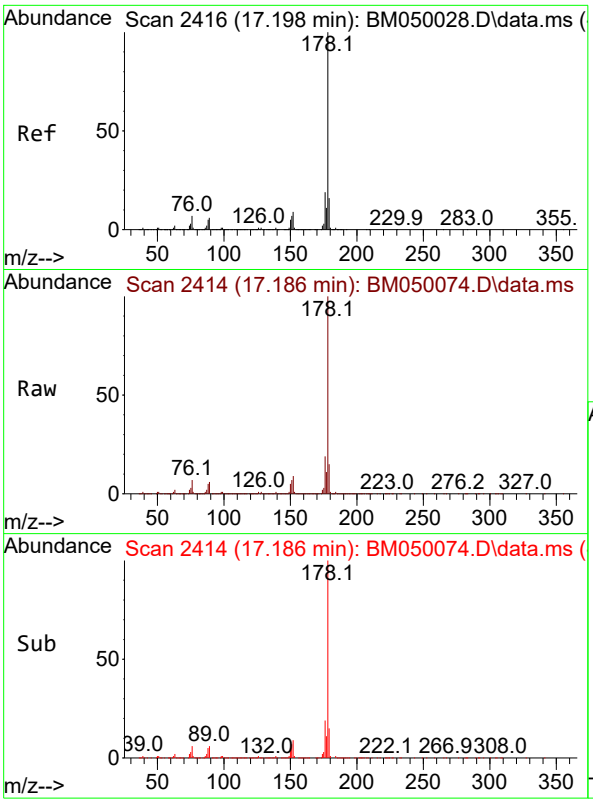


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:188 Resp: 1455099

Ion	Ratio	Lower	Upper
188	100		
94	6.8	5.7	8.5
80	7.5	6.2	9.4

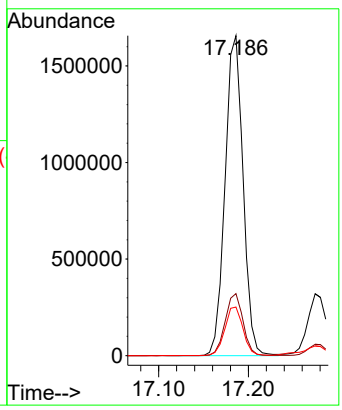




#71
Phenanthrene
Concen: 28.108 ng
RT: 17.186 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:178 Resp: 230682

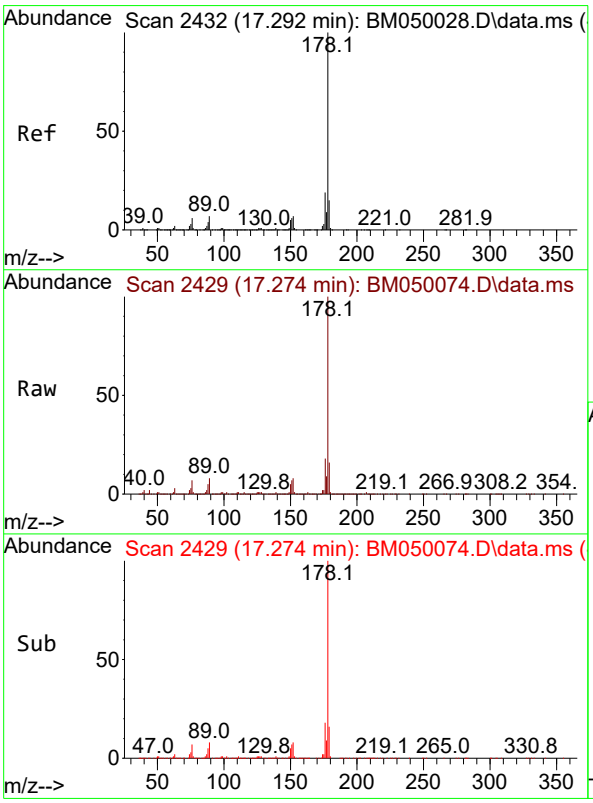
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	15.2	12.4	18.6



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
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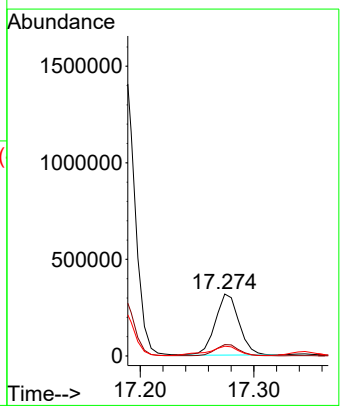
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

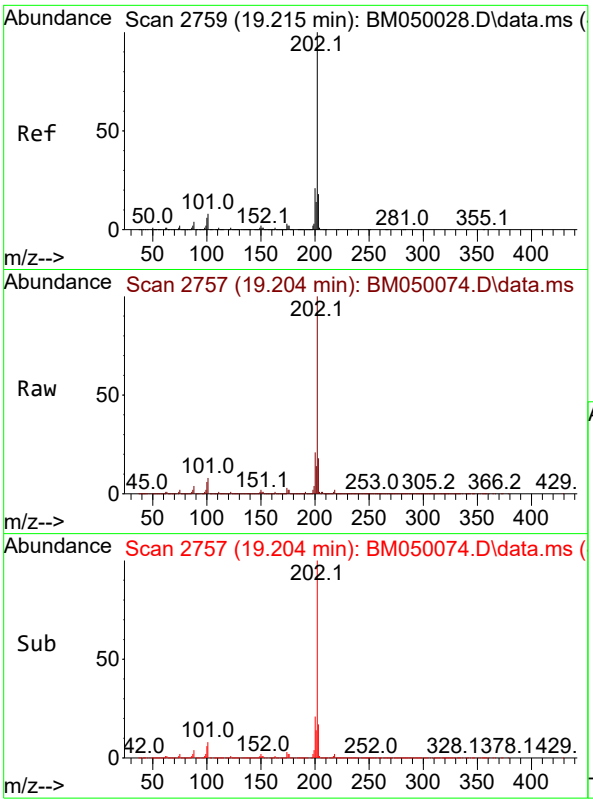


#72
Anthracene
Concen: 5.537 ng
RT: 17.274 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:178 Resp: 459861

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.4
179	15.8	12.2	18.4

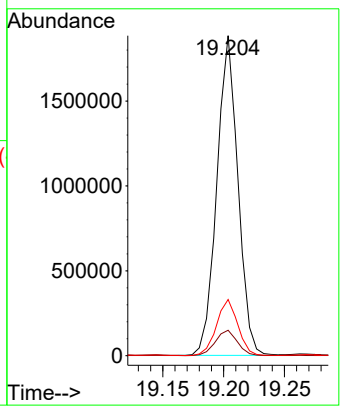




#75
Fluoranthene
Concen: 23.590 ng
RT: 19.204 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:202 Resp: 227300

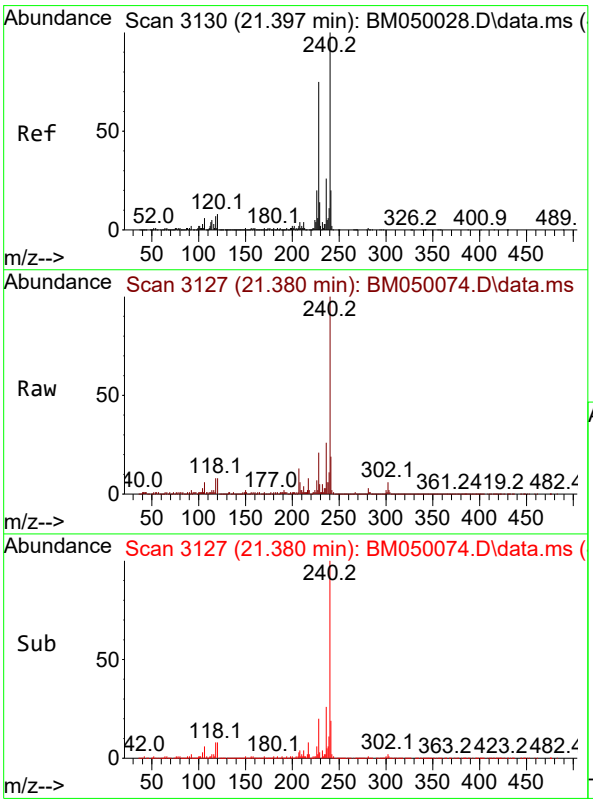
Ion	Ratio	Lower	Upper
202	100		
101	7.9	0.0	28.0
203	17.5	0.0	37.7



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

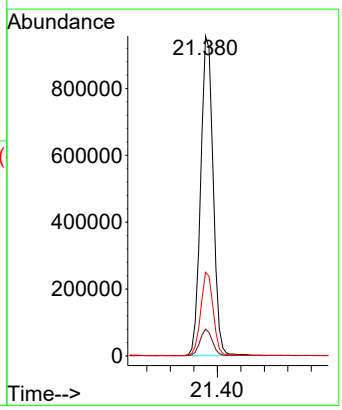
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

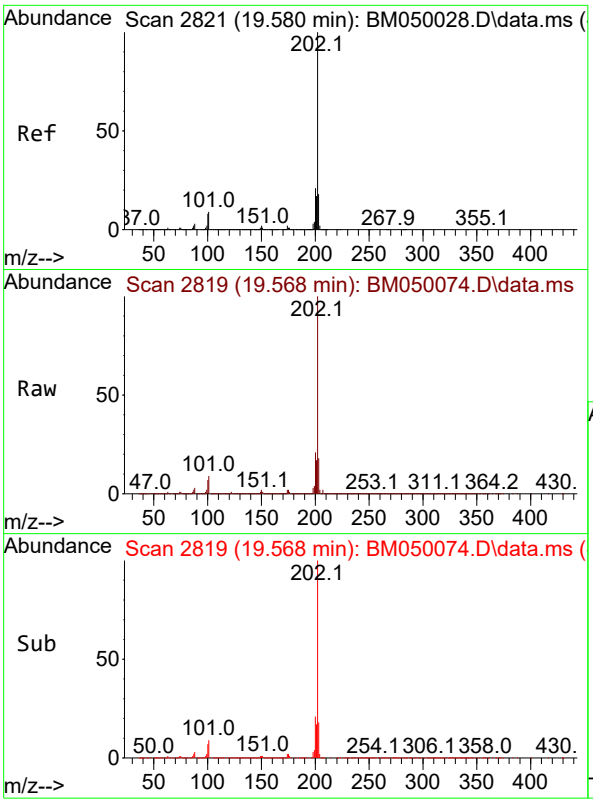


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.017 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:240 Resp: 1407668

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.5	9.7
236	26.2	20.9	31.3

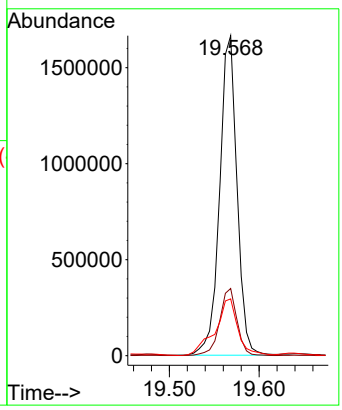




#78
Pyrene
Concen: 22.670 ng
RT: 19.568 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:202 Resp: 224096

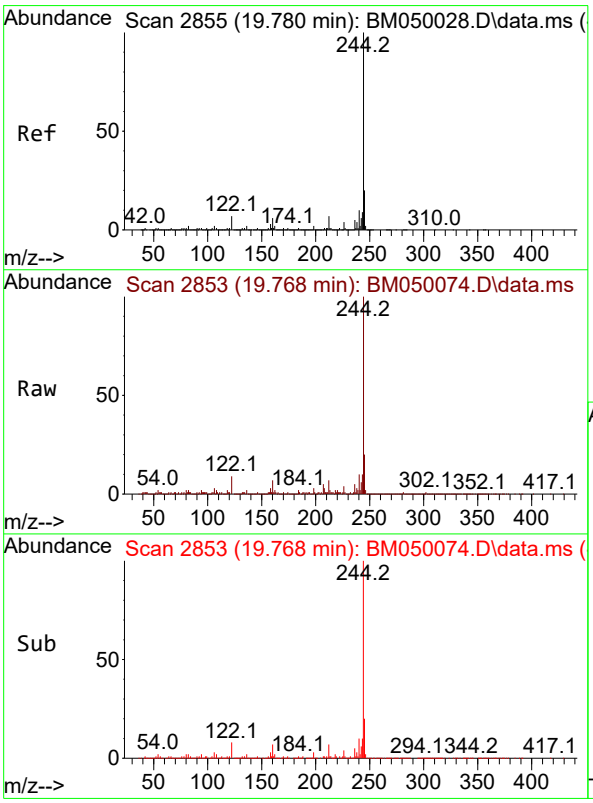
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.1	21.1



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

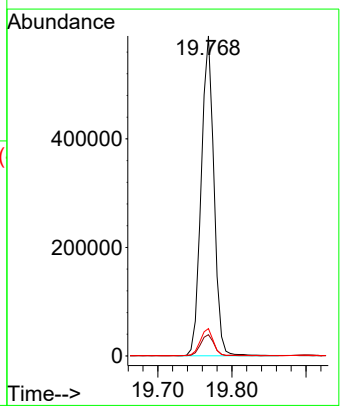
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

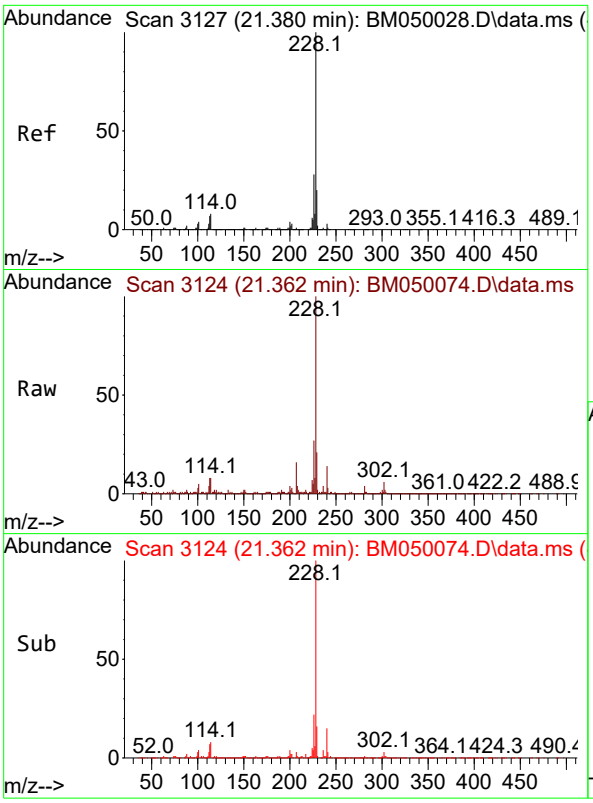


#79
Terphenyl-d14
Concen: 7.392 ng
RT: 19.768 min Scan# 2853
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:244 Resp: 703185

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	8.5	5.6	8.4#

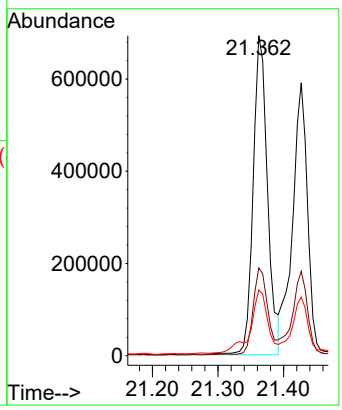




#81
Benzo(a)anthracene
Concen: 10.898 ng
RT: 21.362 min Scan# 3
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:228 Resp: 105644

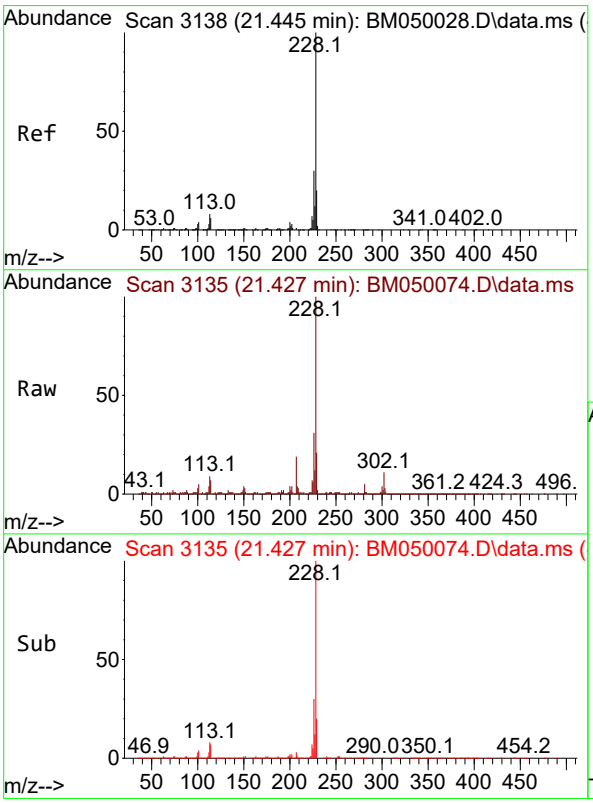
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.1	33.1
229	20.5	15.7	23.5



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
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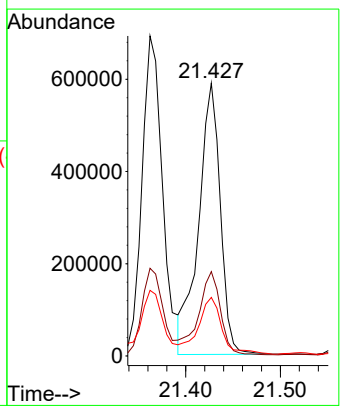
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

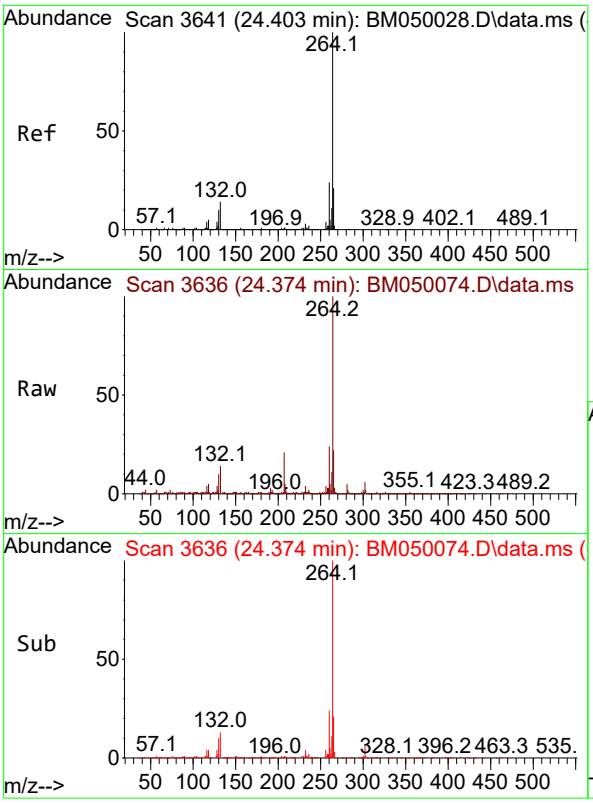


#83
Chrysene
Concen: 10.438 ng
RT: 21.427 min Scan# 3135
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:228 Resp: 936460

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.2	36.2
229	21.5	15.7	23.5

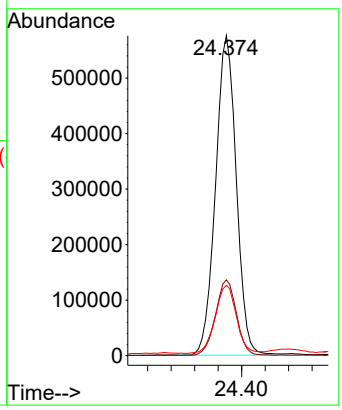




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.374 min Scan# 3
Delta R.T. -0.029 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:264 Resp: 140873

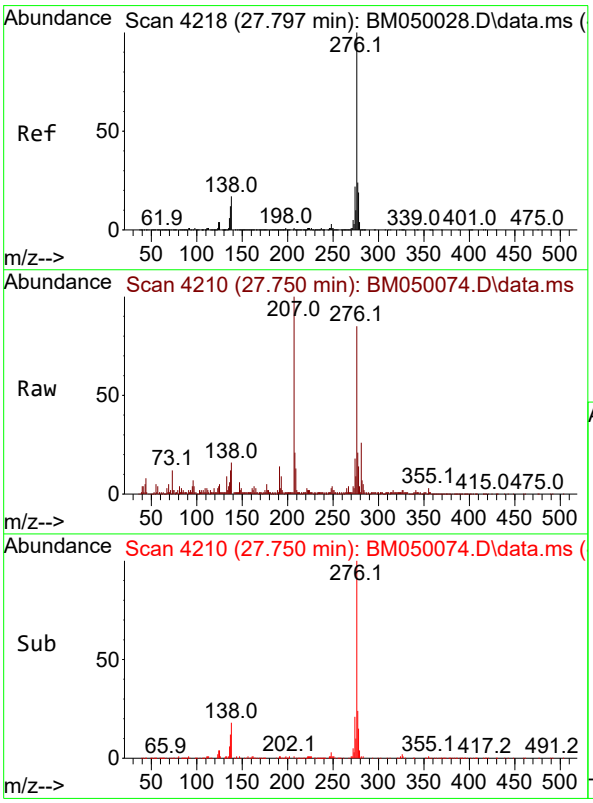
Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.8	28.2
265	22.0	17.0	25.4



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
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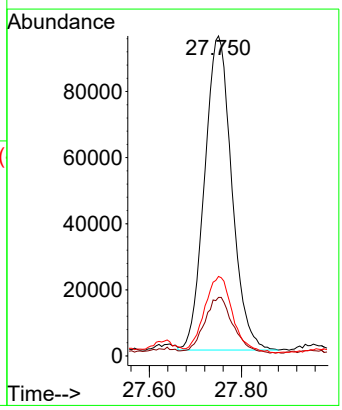
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

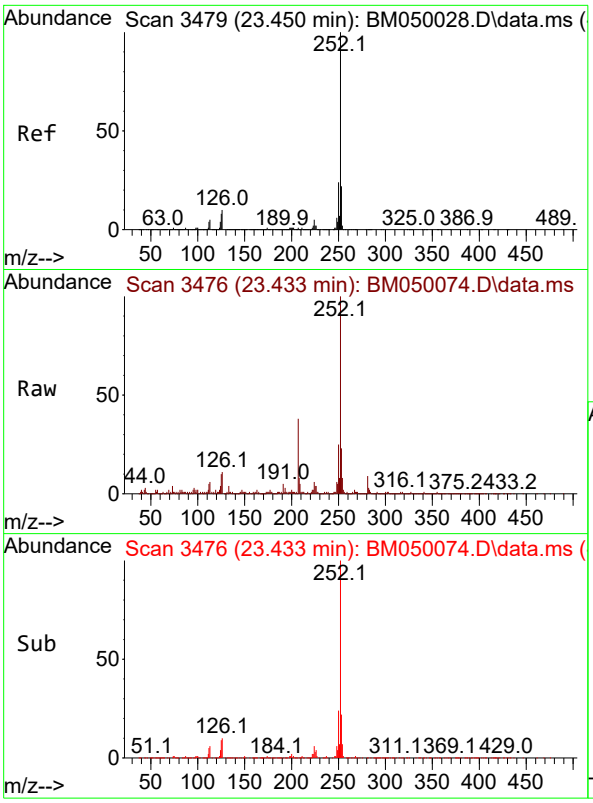


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.704 ng
RT: 27.750 min Scan# 4210
Delta R.T. -0.047 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:276 Resp: 388788

Ion	Ratio	Lower	Upper
276	100		
138	19.1	16.4	24.6
277	25.6	19.8	29.8

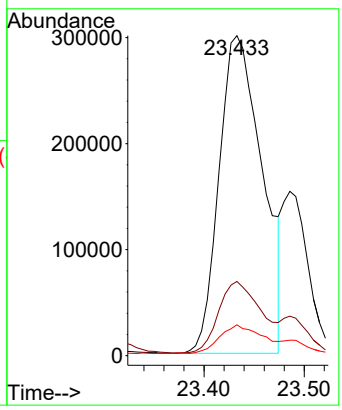




#88
Benzo(b)fluoranthene
Concen: 9.776 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 89565

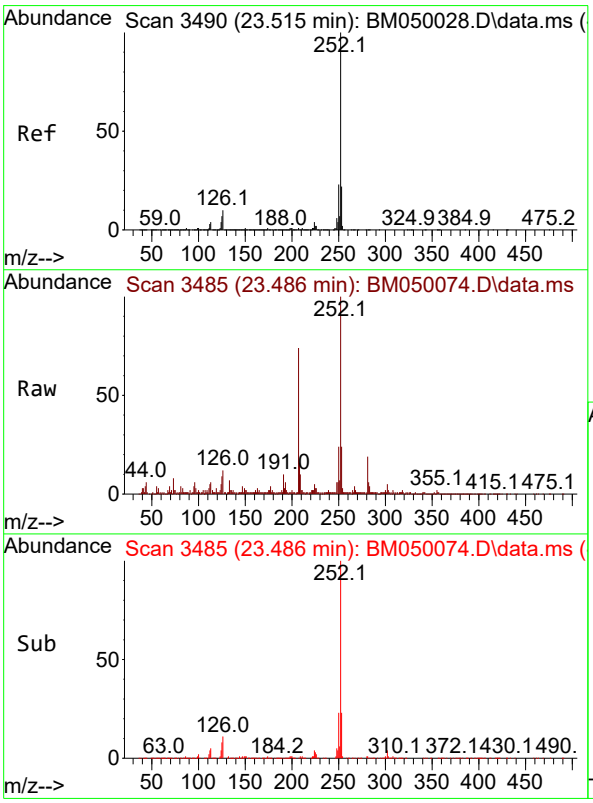
Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	9.6	6.1	9.1#



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

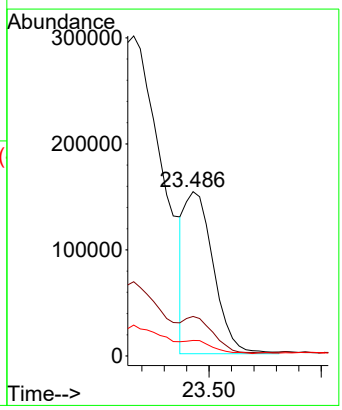
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

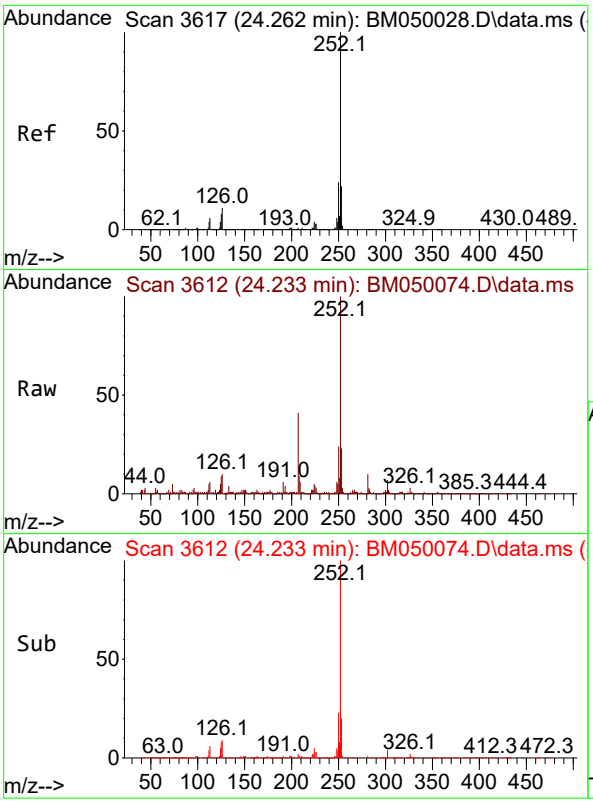


#89
Benzo(k)fluoranthene
Concen: 2.922 ng m
RT: 23.486 min Scan# 3485
Delta R.T. -0.029 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 270817

Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.4	26.2
125	9.4	5.8	8.8#

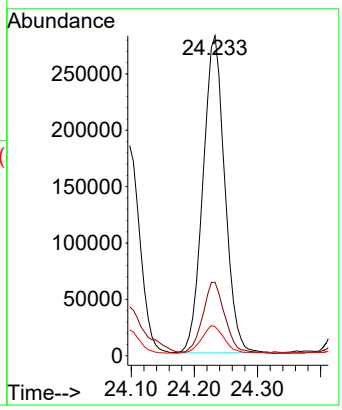




#90
Benzo(a)pyrene
Concen: 7.852 ng
RT: 24.233 min Scan# 3
Delta R.T. -0.029 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 67377

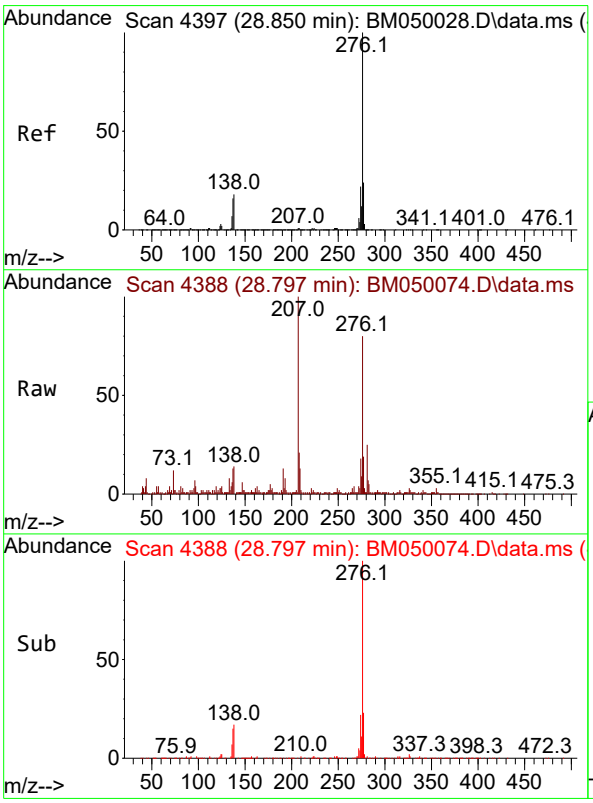
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	9.1	6.6	9.8



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

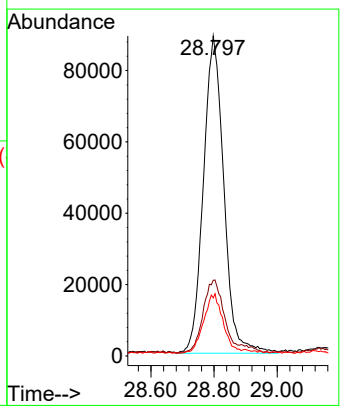
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#92
Benzo(g,h,i)perylene
Concen: 4.879 ng
RT: 28.797 min Scan# 4388
Delta R.T. -0.053 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:276 Resp: 399694

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	18.1	14.3	21.5



Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM050074.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.875	316	321	329	rVB	56516	87642	1.31%	0.132%
2	5.346	395	401	415	rBV	473193	800651	11.96%	1.205%
3	6.940	665	672	683	rBV	397156	807770	12.06%	1.215%
4	7.751	802	810	823	rBV	880309	1475970	22.04%	2.221%
5	8.910	1000	1007	1023	rBV	234143	522096	7.80%	0.786%
6	10.539	1273	1284	1290	rBV	1086934	1941892	29.00%	2.922%
7	10.592	1290	1293	1308	rVB	215527	388500	5.80%	0.585%
8	12.216	1562	1569	1580	rBV	87288	173533	2.59%	0.261%
9	12.433	1600	1606	1618	rVB2	76559	143900	2.15%	0.217%
10	13.016	1698	1705	1718	rBV	841792	1407252	21.01%	2.117%
11	13.563	1792	1798	1808	rBV4	34894	101435	1.51%	0.153%
12	13.722	1818	1825	1830	rBV	76010	139559	2.08%	0.210%
13	13.775	1830	1834	1843	rVB	44755	75279	1.12%	0.113%
14	14.122	1884	1893	1899	rVB2	48411	79346	1.18%	0.119%
15	14.392	1932	1939	1946	rBV	1902359	2863921	42.77%	4.309%
16	14.457	1946	1950	1959	rVB	281927	445373	6.65%	0.670%
17	14.704	1984	1992	1998	rBV2	39876	78745	1.18%	0.118%
18	14.798	2003	2008	2015	rVV	185713	301922	4.51%	0.454%
19	15.186	2066	2074	2077	rBV4	35020	76689	1.15%	0.115%
20	15.445	2111	2118	2130	rVB	310028	509385	7.61%	0.766%
21	15.569	2136	2139	2142	rVV	54977	78772	1.18%	0.119%
22	15.610	2142	2146	2151	rVB3	64611	93482	1.40%	0.141%
23	15.757	2164	2171	2177	rVB3	131715	279534	4.17%	0.421%
24	15.892	2188	2194	2203	rBV	823846	1278156	19.09%	1.923%
25	16.127	2229	2234	2239	rVB5	52125	89845	1.34%	0.135%
26	16.427	2278	2285	2286	rBV3	63930	90552	1.35%	0.136%
27	16.451	2286	2289	2294	rVV2	87093	139041	2.08%	0.209%
28	16.498	2294	2297	2303	rVB2	64499	99263	1.48%	0.149%
29	16.598	2311	2314	2319	rVB	57294	83593	1.25%	0.126%
30	16.804	2344	2349	2356	rVB	118853	198991	2.97%	0.299%
31	16.892	2356	2364	2369	rBV4	70850	190197	2.84%	0.286%
32	16.963	2371	2376	2384	rVB	198057	296631	4.43%	0.446%
33	17.145	2400	2407	2410	rBV	2374329	3423432	51.12%	5.151%
34	17.186	2410	2414	2421	rVV	3645905	5052470	75.45%	7.602%
35	17.274	2421	2429	2435	rVV	690163	1065076	15.90%	1.603%
36	17.339	2435	2440	2445	rVV2	59001	114601	1.71%	0.172%

Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	17.551	2470	2476	2488	rBV	213620	418307	6.25%	0.629%
38	17.721	2501	2505	2515	rVB2	107652	192260	2.87%	0.289%
39	17.863	2526	2529	2538	rVB	68943	116758	1.74%	0.176%
40	18.015	2550	2555	2560	rVV	608382	960993	14.35%	1.446%
41	18.068	2560	2564	2569	rVV	805315	1139408	17.01%	1.714%
42	18.151	2573	2578	2582	rVV	240360	369407	5.52%	0.556%
43	18.210	2583	2588	2592	rVV2	696442	1280905	19.13%	1.927%
44	18.251	2592	2595	2602	rVB	445108	598235	8.93%	0.900%
45	18.327	2605	2608	2612	rBV4	49784	73492	1.10%	0.111%
46	18.421	2620	2624	2628	rBV2	50551	75785	1.13%	0.114%
47	18.521	2636	2641	2645	rBV	298399	401007	5.99%	0.603%
48	18.568	2645	2649	2657	rVB2	235703	359664	5.37%	0.541%
49	18.645	2659	2662	2667	rBV	76313	94727	1.41%	0.143%
50	18.768	2679	2683	2688	rVB	167519	203532	3.04%	0.306%
51	18.821	2688	2692	2695	rBV	121410	153841	2.30%	0.231%
52	18.857	2695	2698	2703	rVB	122200	151971	2.27%	0.229%
53	18.939	2707	2712	2716	rBV	388886	606856	9.06%	0.913%
54	19.080	2731	2736	2744	rBV3	216740	472279	7.05%	0.711%
55	19.204	2752	2757	2764	rVB	4044671	4883340	72.92%	7.348%
56	19.304	2771	2774	2780	rBV3	118120	158439	2.37%	0.238%
57	19.445	2795	2798	2802	rBV	126980	158360	2.36%	0.238%
58	19.568	2809	2819	2827	rBV	3487020	5637936	84.19%	8.483%
59	19.645	2828	2832	2838	rVB2	203856	334977	5.00%	0.504%
60	19.768	2848	2853	2857	rVB	1466269	1765681	26.37%	2.657%
61	19.898	2869	2875	2881	rBV4	262502	649516	9.70%	0.977%
62	20.027	2893	2897	2899	rBV4	202316	321166	4.80%	0.483%
63	20.062	2900	2903	2909	rVB	593518	744341	11.12%	1.120%
64	20.162	2916	2920	2924	rBV	387751	463087	6.92%	0.697%
65	20.221	2926	2930	2934	rVV2	374663	516971	7.72%	0.778%
66	20.362	2951	2954	2958	rBV	264192	292796	4.37%	0.441%
67	20.409	2958	2962	2966	rBV	285092	375025	5.60%	0.564%
68	20.815	3029	3031	3039	rVB	273133	362991	5.42%	0.546%
69	21.027	3064	3067	3070	rBV	227467	248320	3.71%	0.374%
70	21.380	3120	3127	3132	rBV2	3068405	6696712	100.00%	10.077%
71	21.427	3132	3135	3147	rVB	1600657	2478372	37.01%	3.729%
72	23.433	3470	3476	3482	rBV	704415	1877188	28.03%	2.825%
73	24.097	3585	3589	3603	rVB	428967	977947	14.60%	1.472%
74	24.233	3606	3612	3623	rVB	640913	1521834	22.73%	2.290%
75	24.374	3629	3636	3644	rVB	1414495	3329611	49.72%	5.010%

Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 66458533

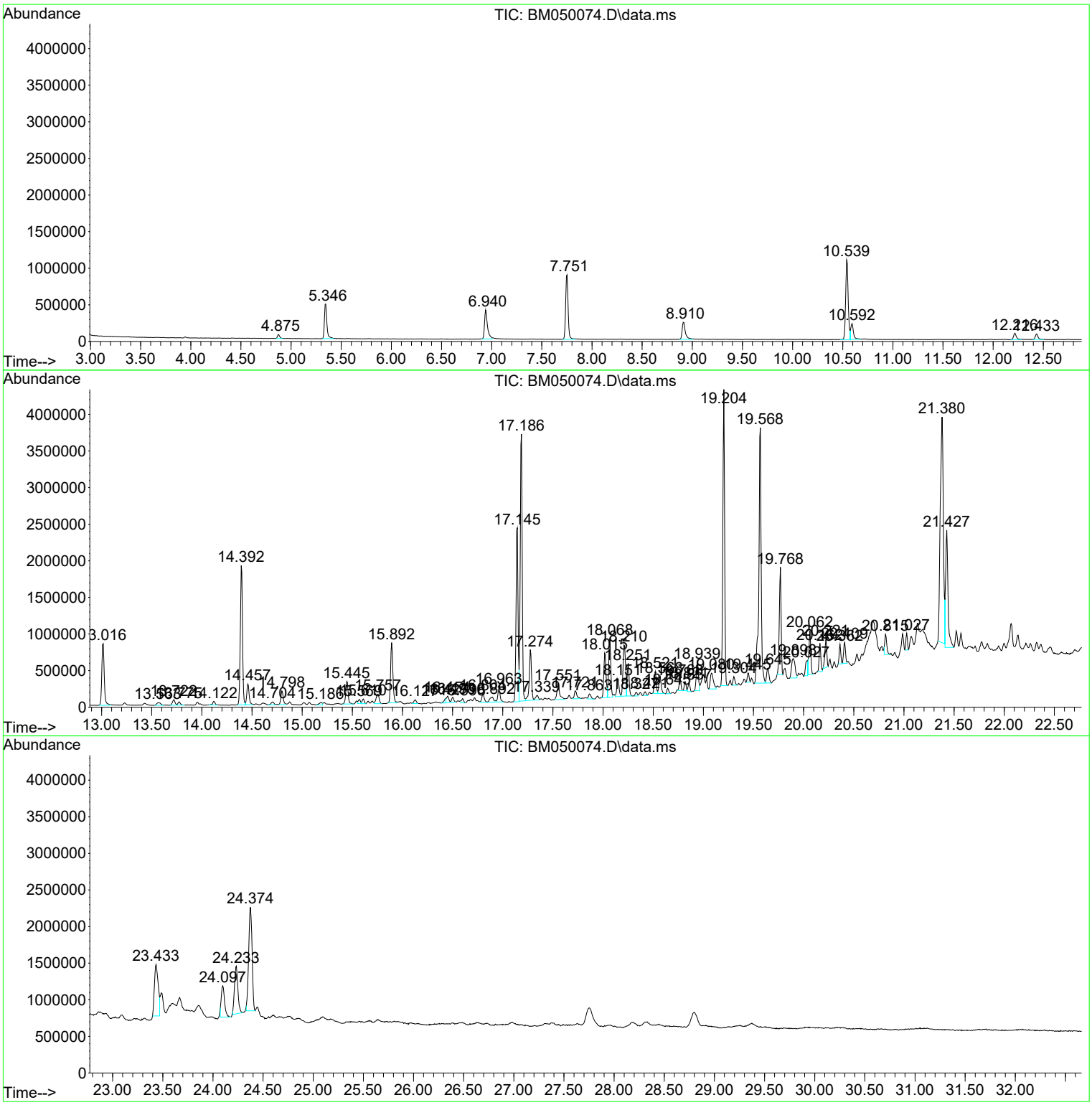
Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

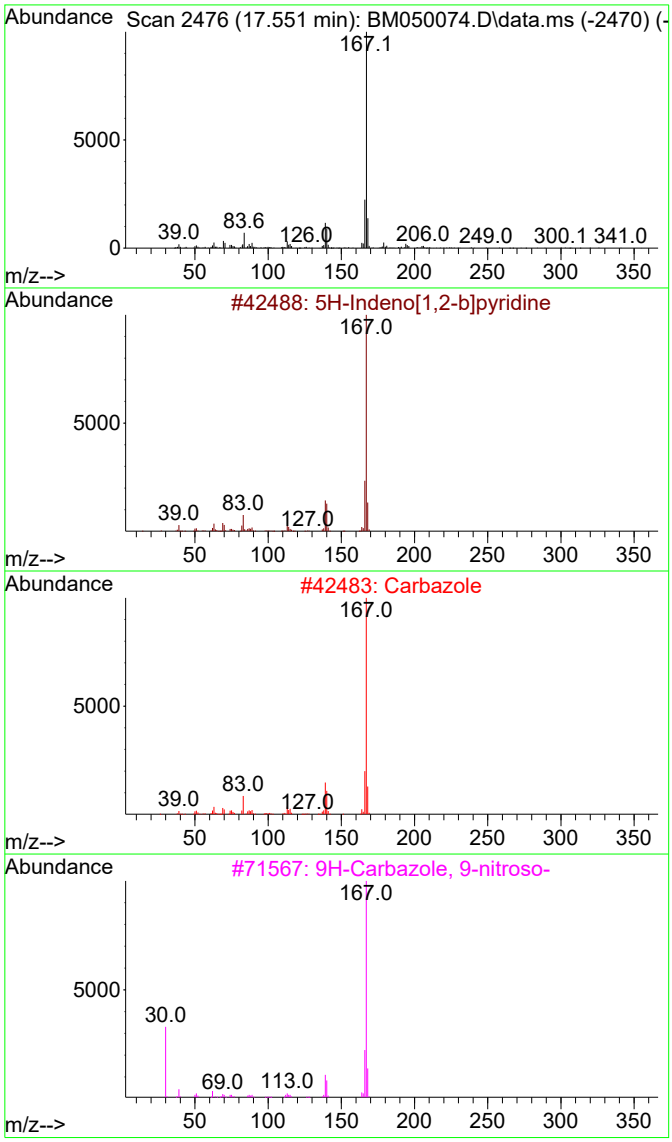
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

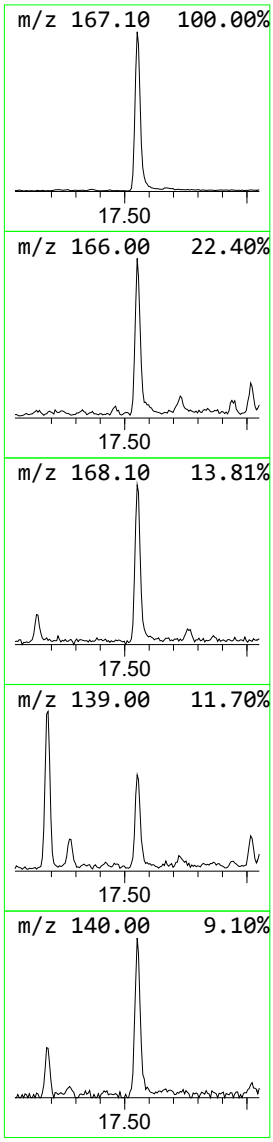
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 5H-Indeno[1,2-b]pyridine Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.551	2.44 ng	418307	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	95
2	Carbazole	167	C12H9N	000086-74-8	90
3	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	86
4	4H-1,3,2-Dioxaborin, 2-ethyl-4-m...	210	C12H23BO2	074421-10-6	80
5	9H-Carbazole-9-methanol	197	C13H11NO	002409-36-1	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

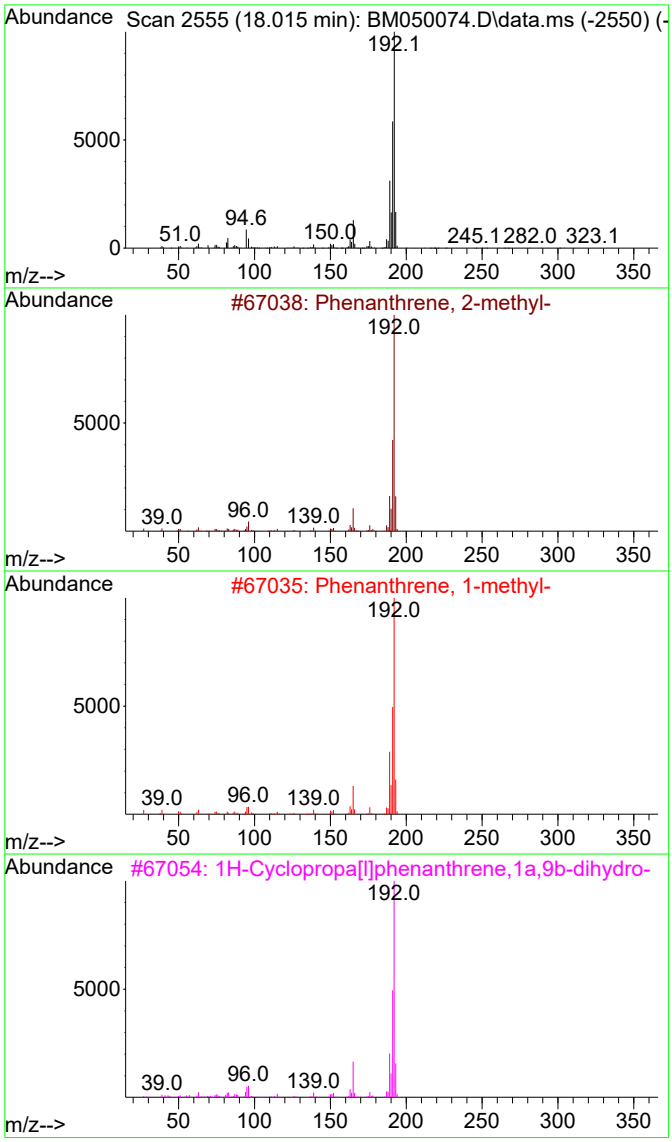
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TIC Integration Parameters: LSCINT.P

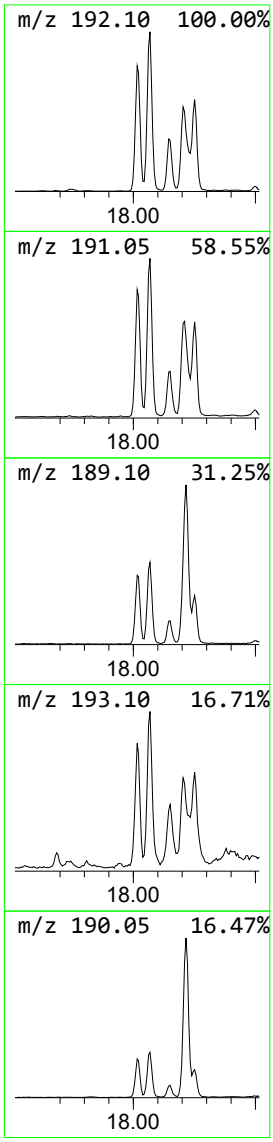
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Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.015	5.61 ng	960993	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

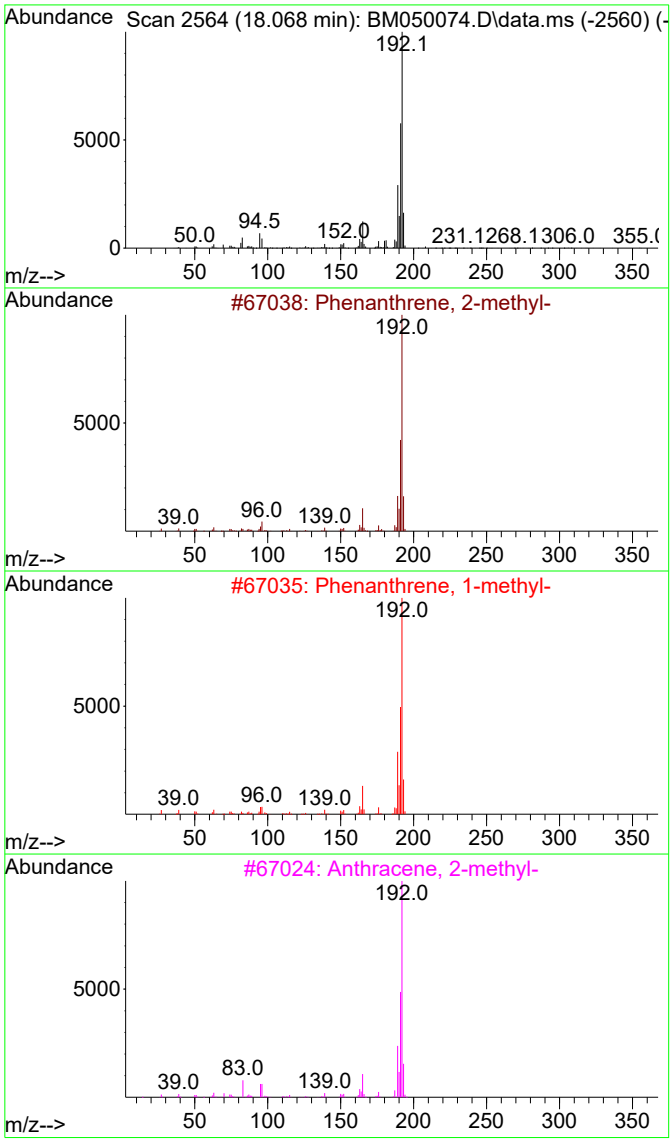
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TIC Integration Parameters: LSCINT.P

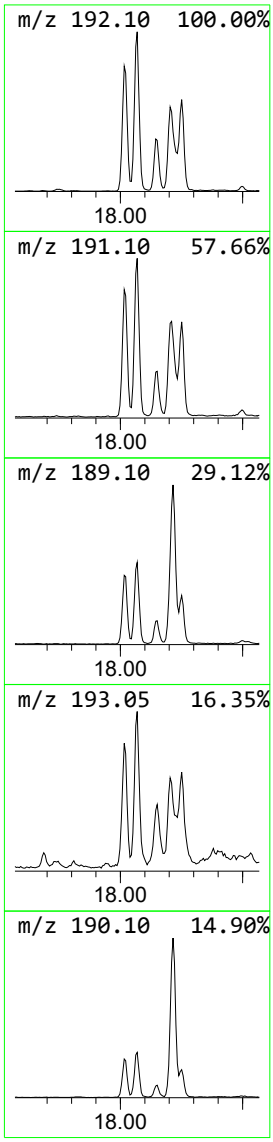
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Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.068	6.66 ng	1139410	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

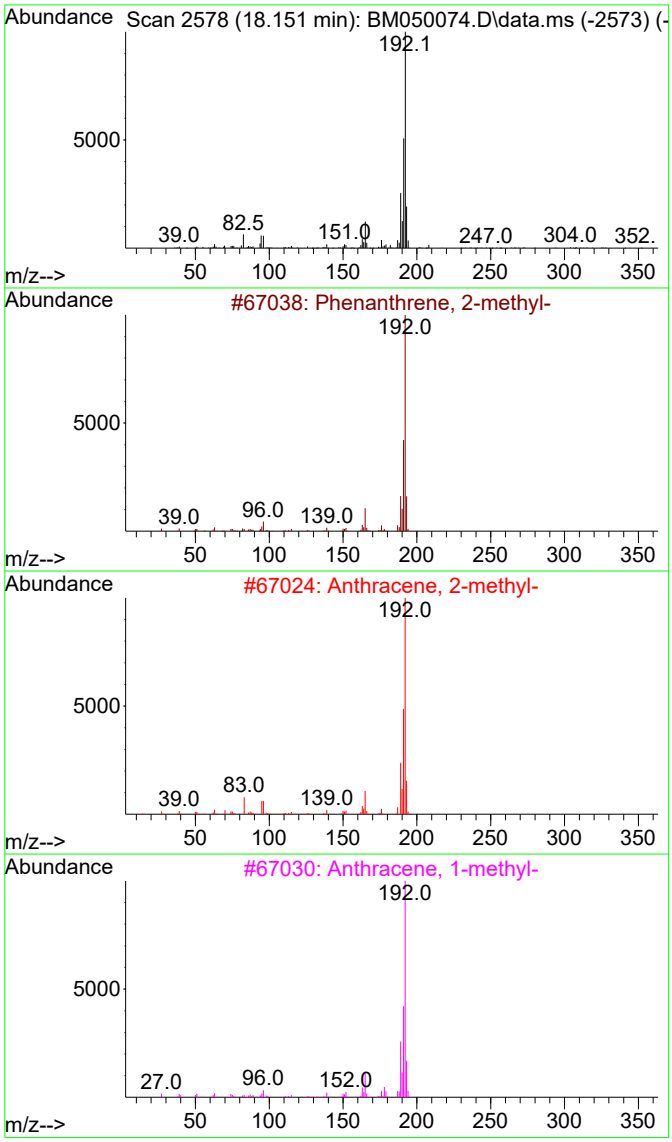
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

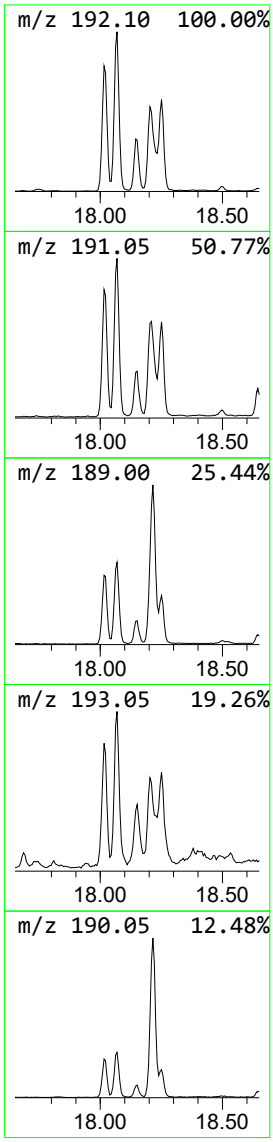
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Peak Number 5 Anthracene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.151	2.16 ng	369407	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

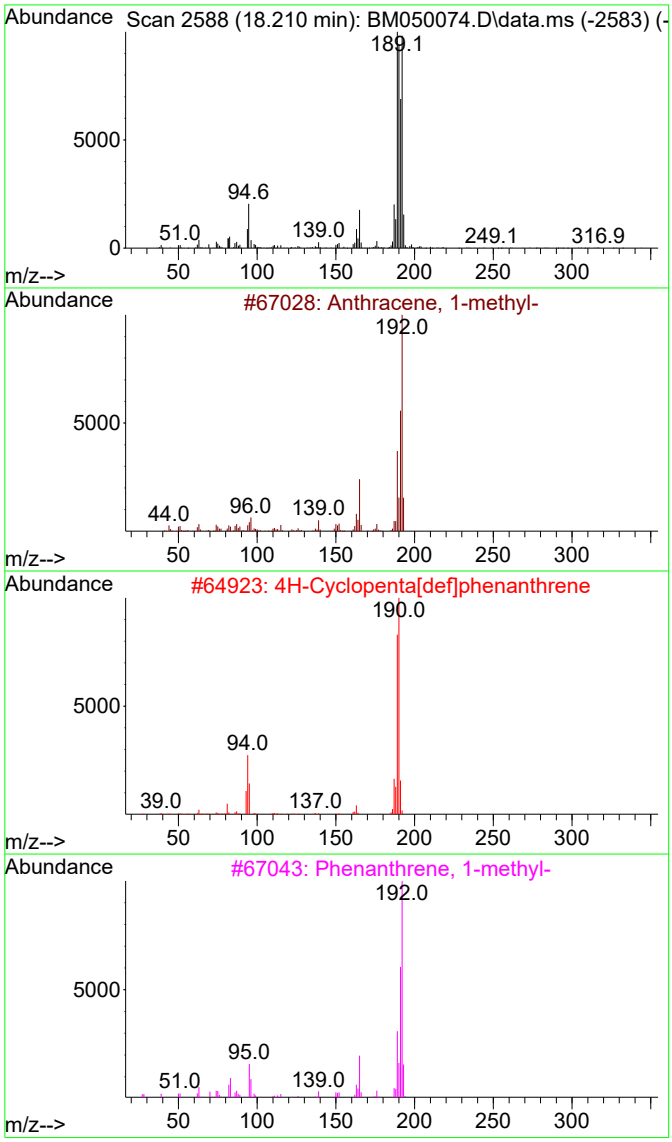
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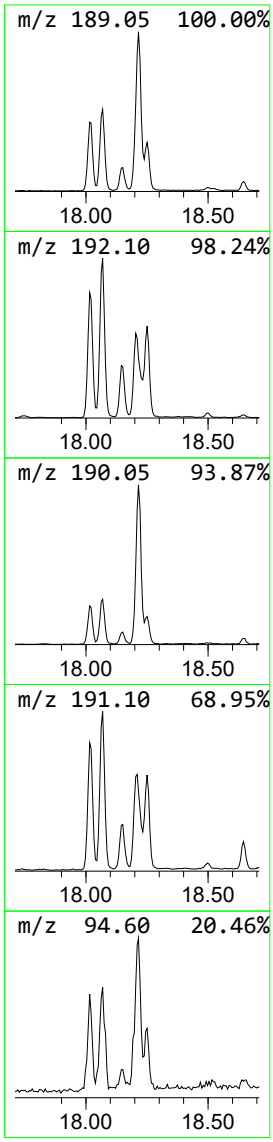
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Peak Number 6 Anthracene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.210	7.48 ng	1280910	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	55
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

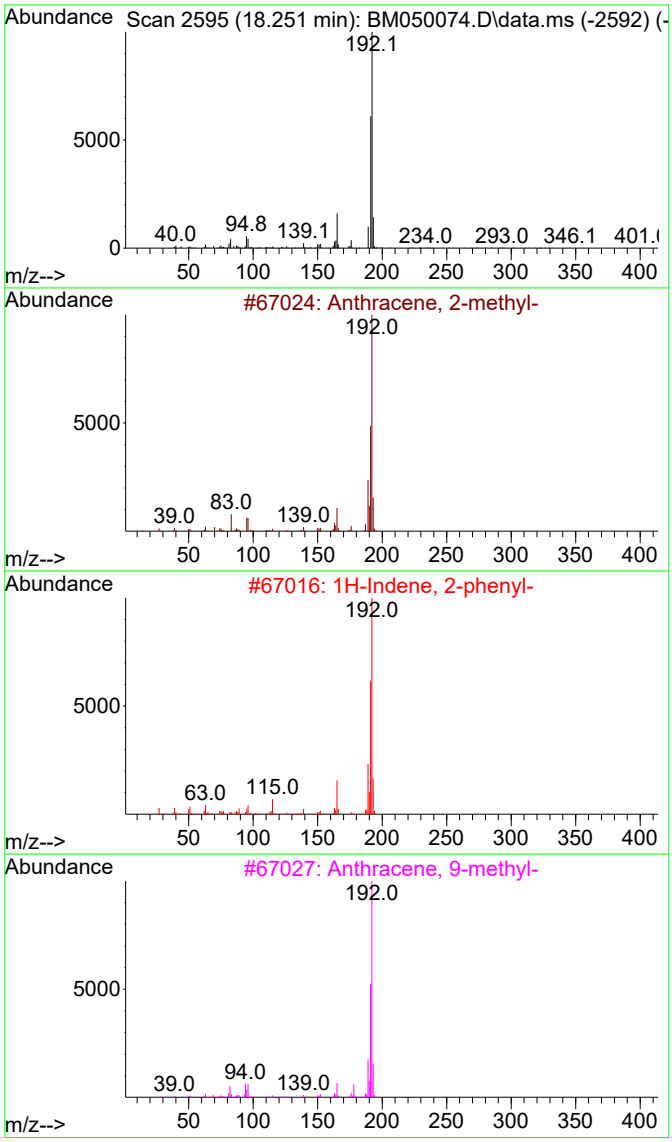
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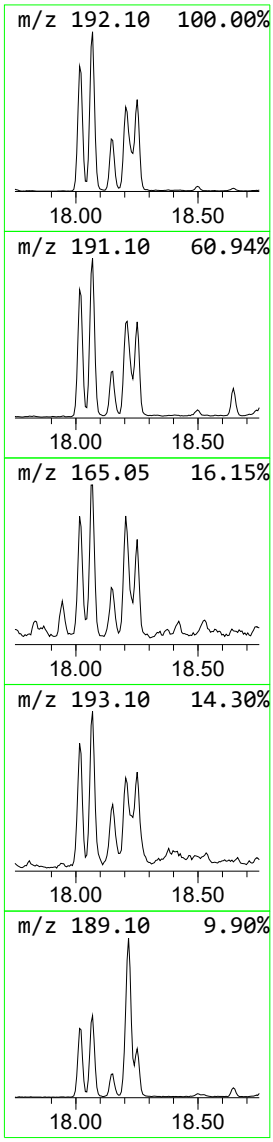
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Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.251	3.49 ng	598235	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

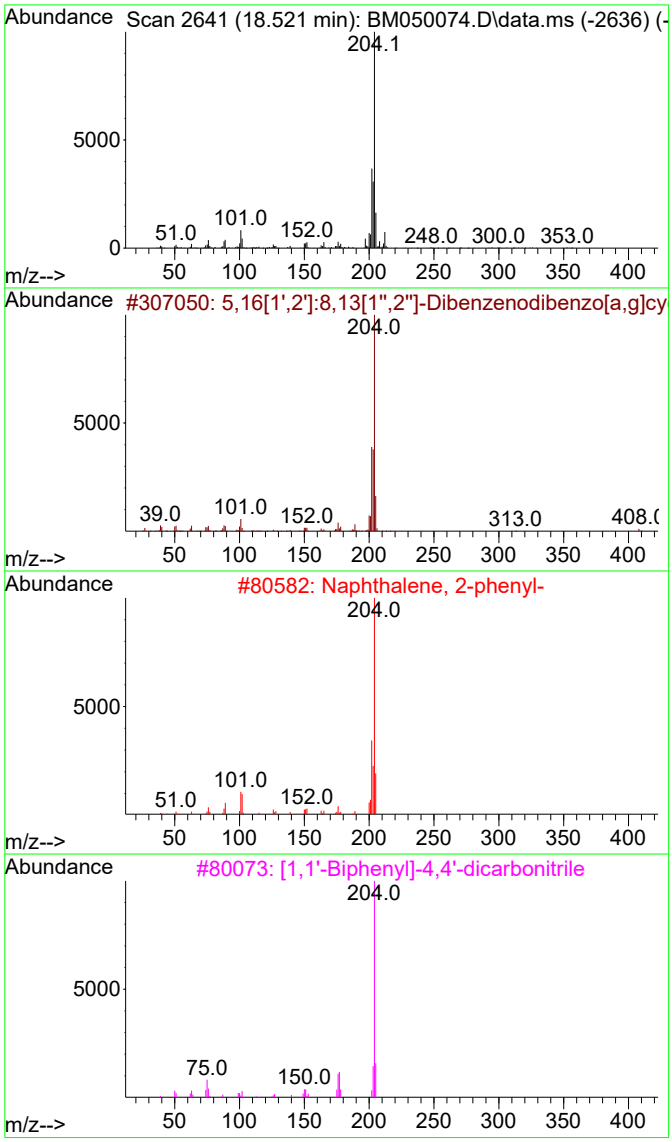
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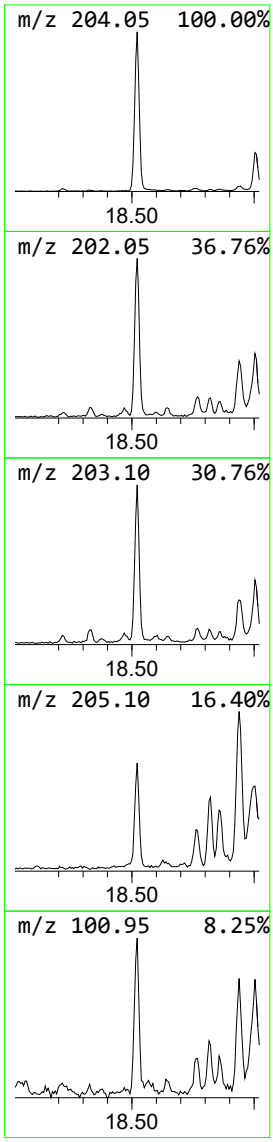
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.521	2.34 ng	401007	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	52
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

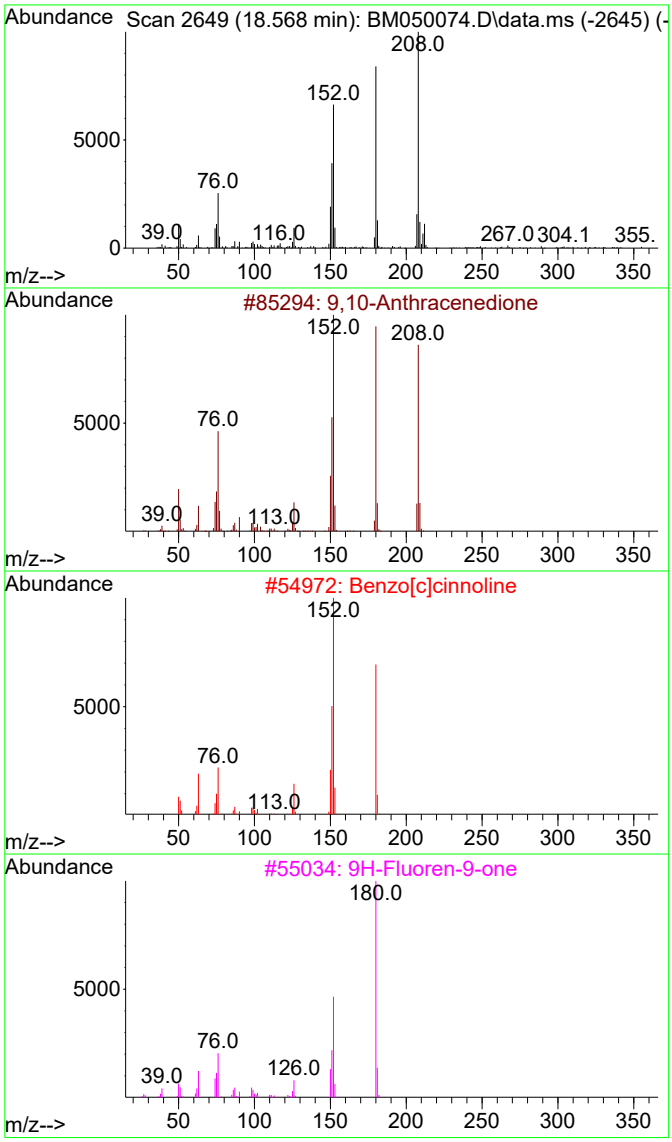
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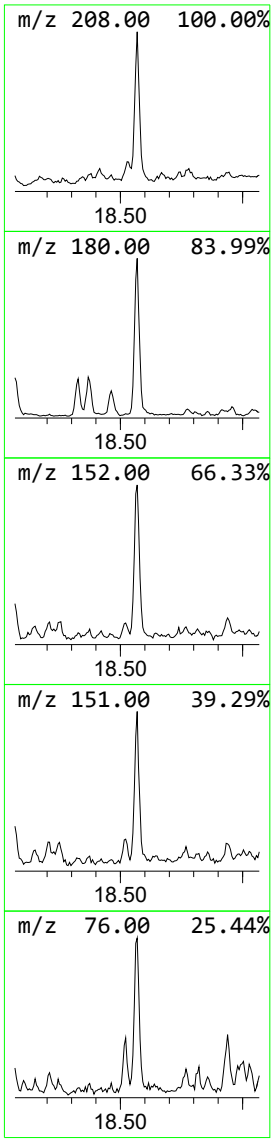
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Peak Number 9 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.568	2.10 ng	359664	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	52
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	50
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

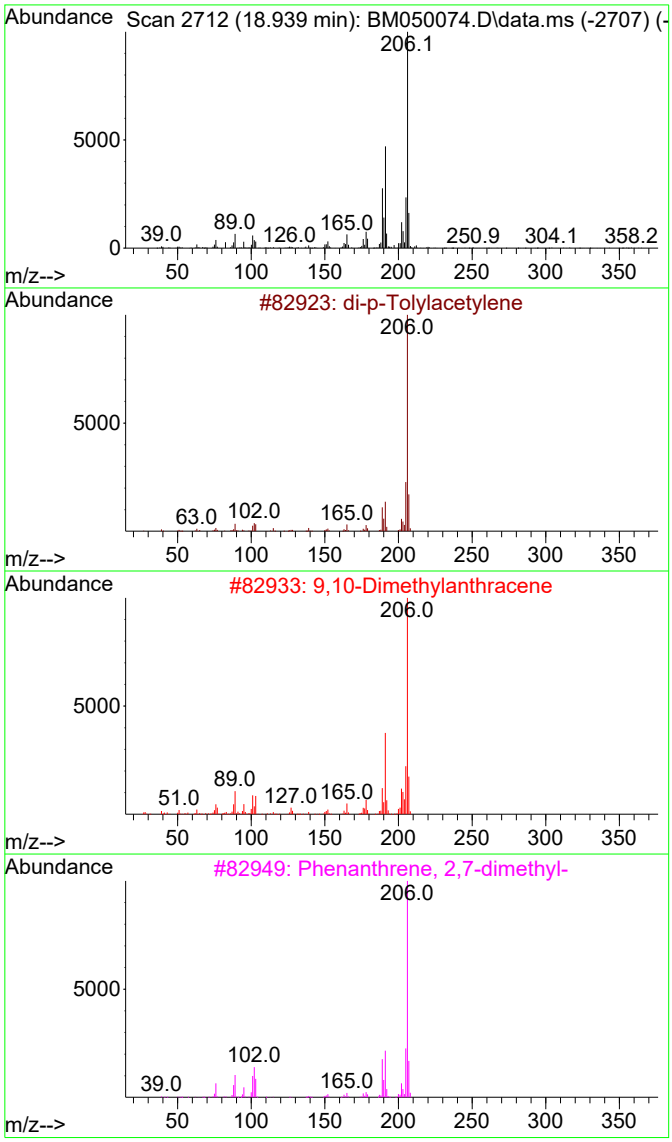
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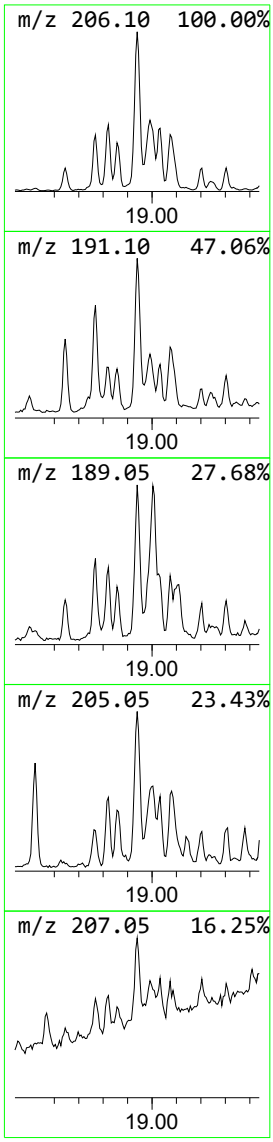
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Peak Number 10 di-p-Tolylacetylene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.939	3.55 ng	606856	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
4	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

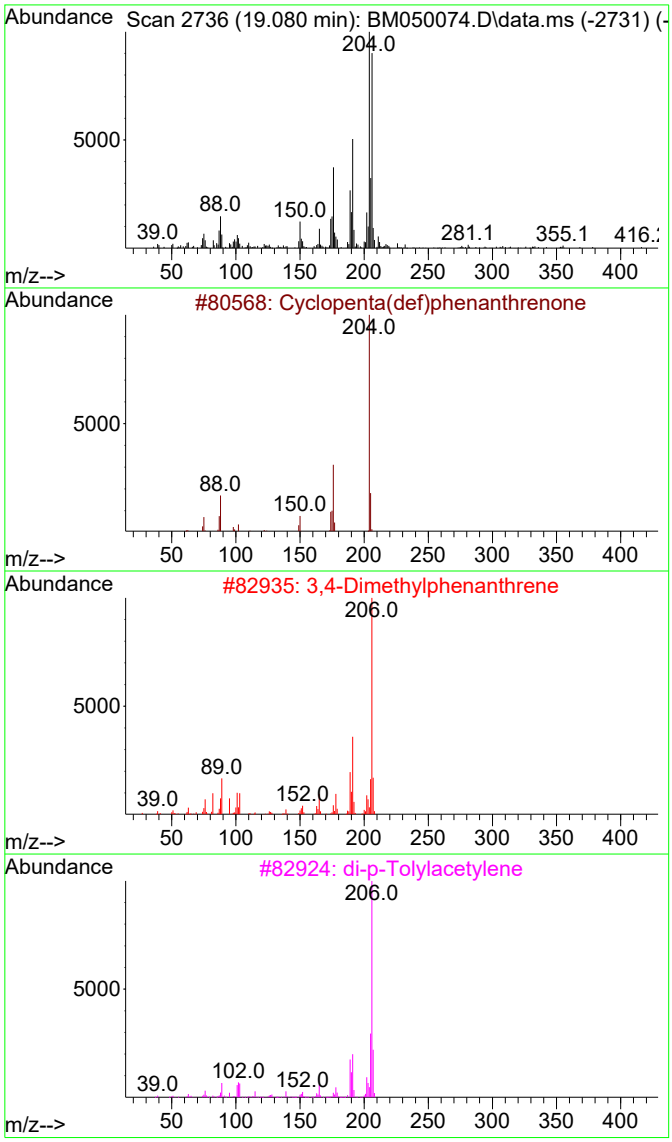
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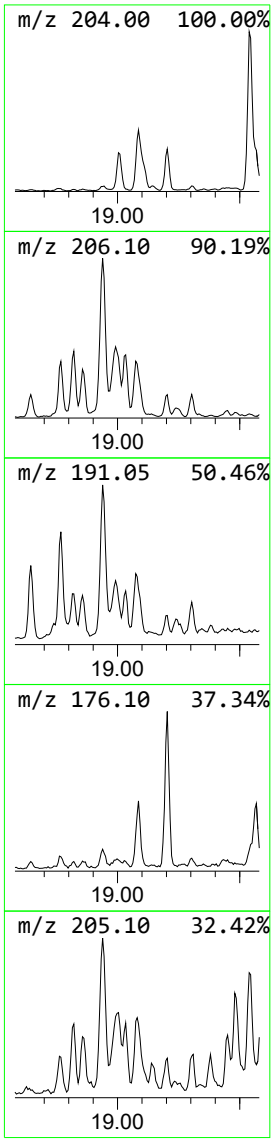
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Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.080	2.76 ng	472279	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	78
2	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	46
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	46
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	46
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	45





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

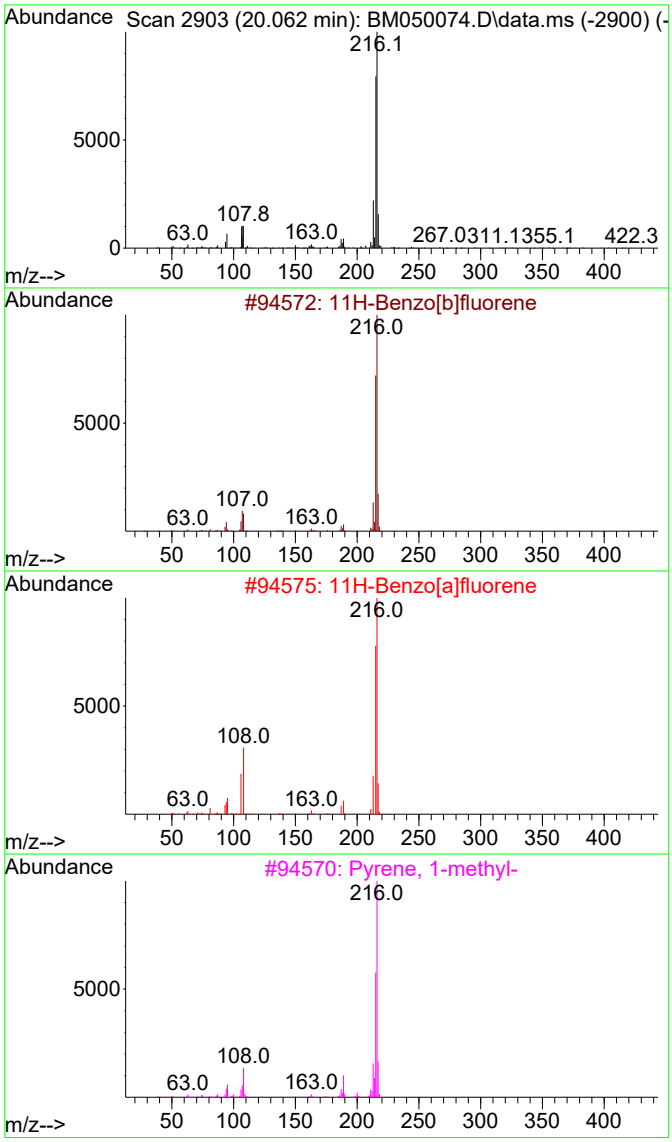
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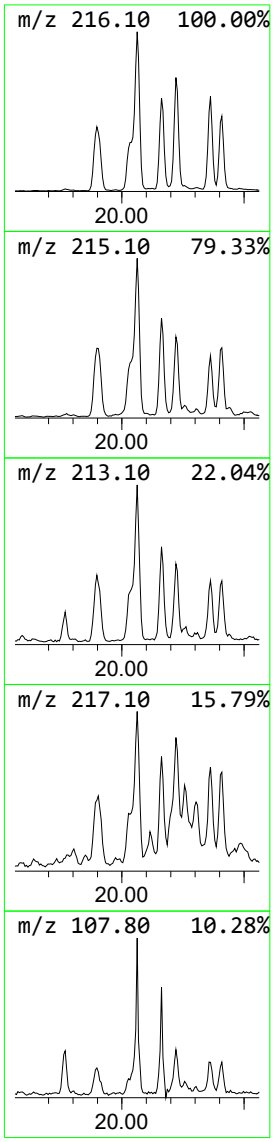
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Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.062	2.22 ng	744341	Chrysene-d12	21.380

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

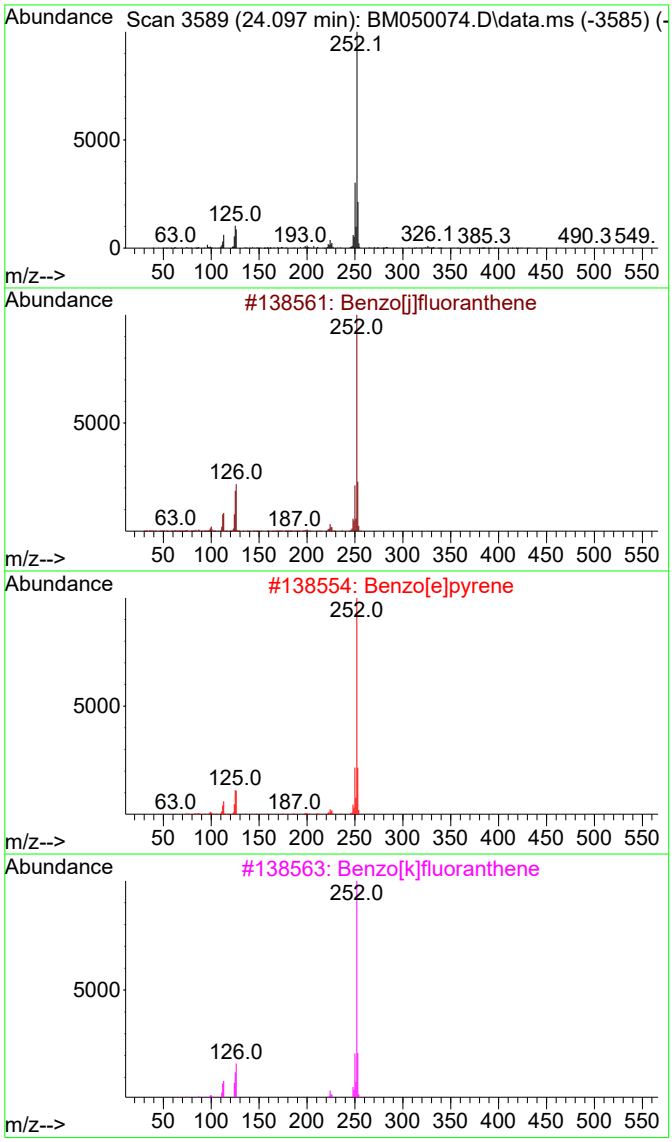
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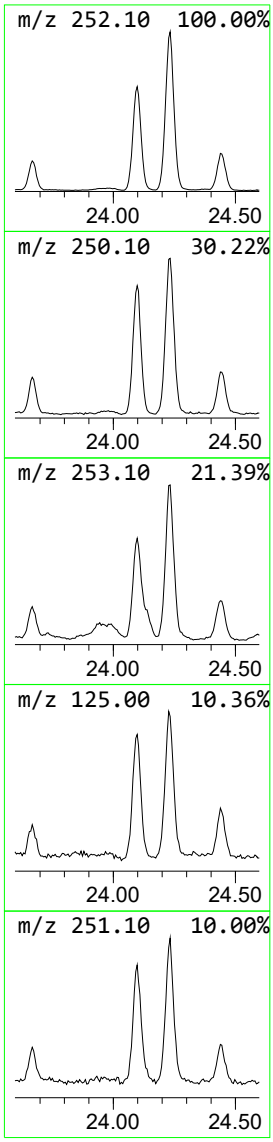
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Peak Number 13 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.097	5.87 ng	977947	Perylene-d12	24.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[j]fluoranthene	252	C20H12	000205-82-3	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Perylene	252	C20H12	000198-55-0	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
5H-Indeno[1,2-b...	17.551	2.4	ng	418307	4	17.145	3423430	20.0
Phenanthrene, 2...	18.015	5.6	ng	960993	4	17.145	3423430	20.0
Phenanthrene, 1...	18.068	6.7	ng	1139410	4	17.145	3423430	20.0
Anthracene, 2-m...	18.151	2.2	ng	369407	4	17.145	3423430	20.0
Anthracene, 1-m...	18.210	7.5	ng	1280910	4	17.145	3423430	20.0
1H-Indene, 2-ph...	18.251	3.5	ng	598235	4	17.145	3423430	20.0
5,16[1',2']:8,1...	18.521	2.3	ng	401007	4	17.145	3423430	20.0
9,10-Anthracene...	18.568	2.1	ng	359664	4	17.145	3423430	20.0
di-p-Tolylacety...	18.939	3.5	ng	606856	4	17.145	3423430	20.0
Cyclopenta(def)...	19.080	2.8	ng	472279	4	17.145	3423430	20.0
11H-Benzo[b]flu...	20.062	2.2	ng	744341	5	21.380	6696710	20.0
Benzo[j]fluoran...	24.097	5.9	ng	977947	6	24.374	3329610	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Time: May 02 01:09:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

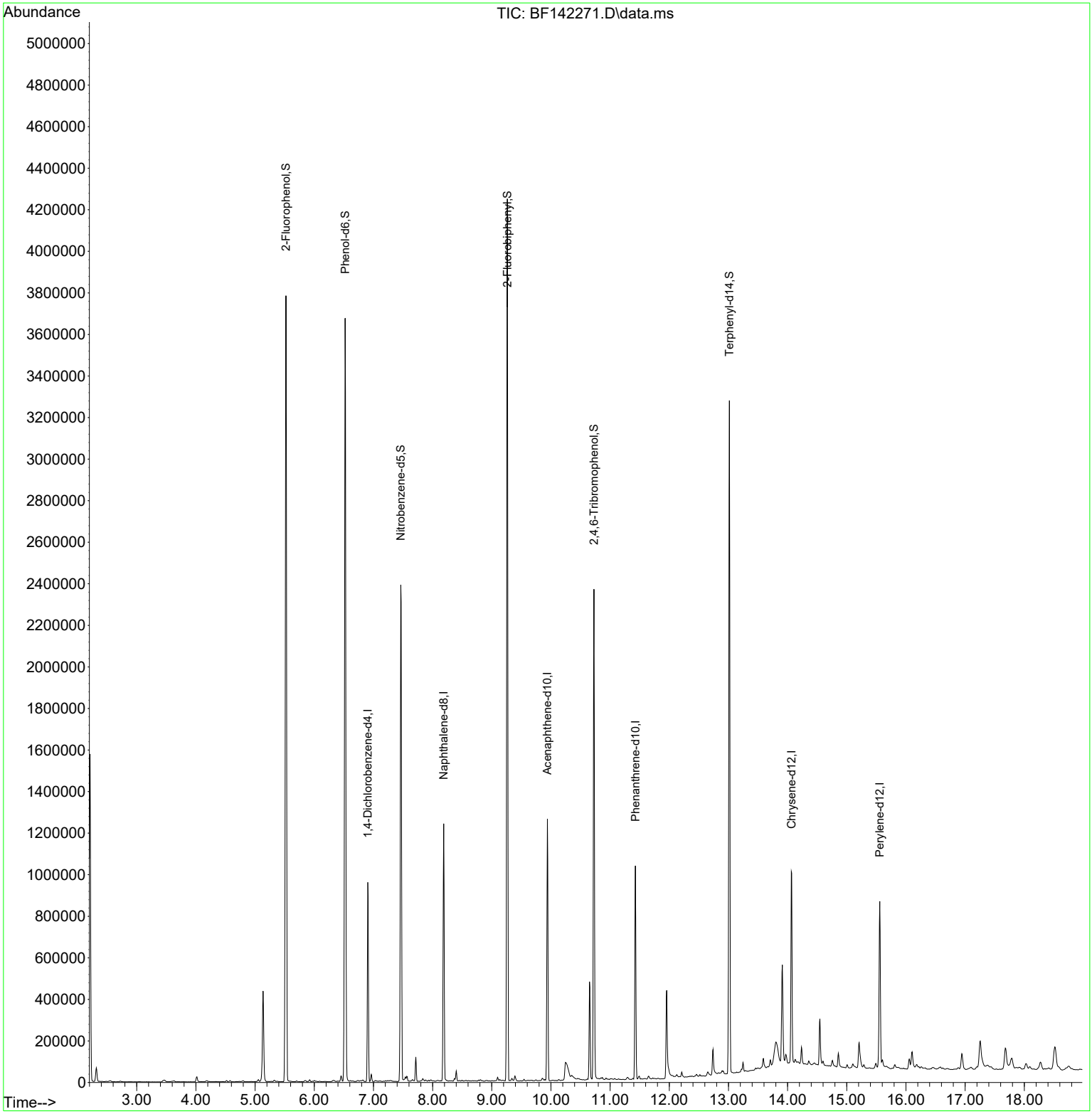
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	201306	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	748548	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	358843	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	508457	20.000	ng	0.00
76) Chrysene-d12	14.069	240	449365	20.000	ng	0.00
86) Perylene-d12	15.557	264	455676	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1499481	118.961	ng	0.00
7) Phenol-d6	6.522	99	1822753	119.751	ng	0.00
23) Nitrobenzene-d5	7.463	82	1039957	91.273	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	399389	122.087	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1870790	73.507	ng	0.00
79) Terphenyl-d14	13.016	244	1540049	49.845	ng	0.00
Target Compounds						Qvalue

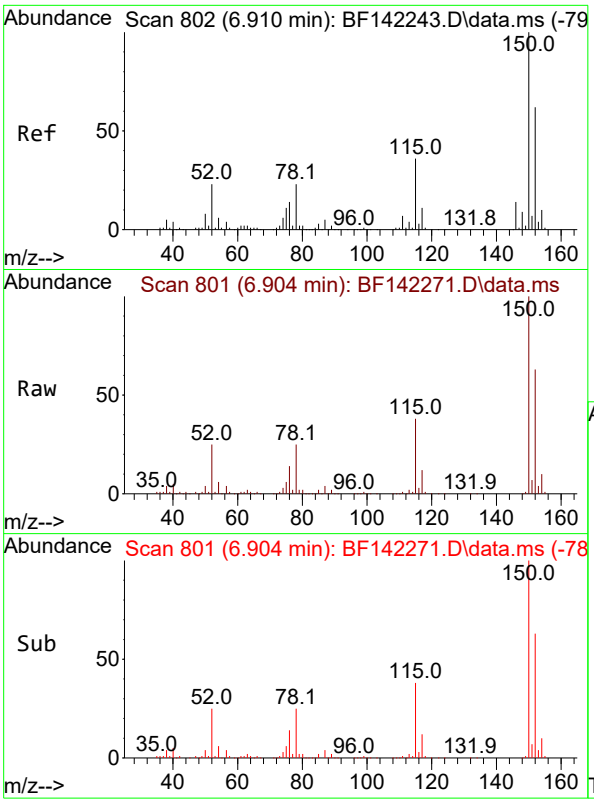
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Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Time: May 02 01:09:36 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



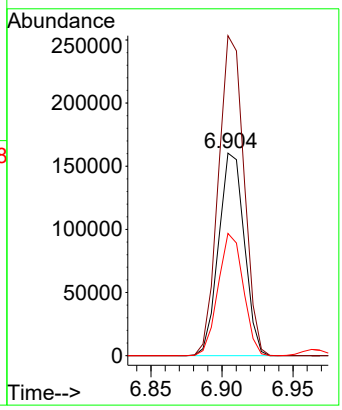


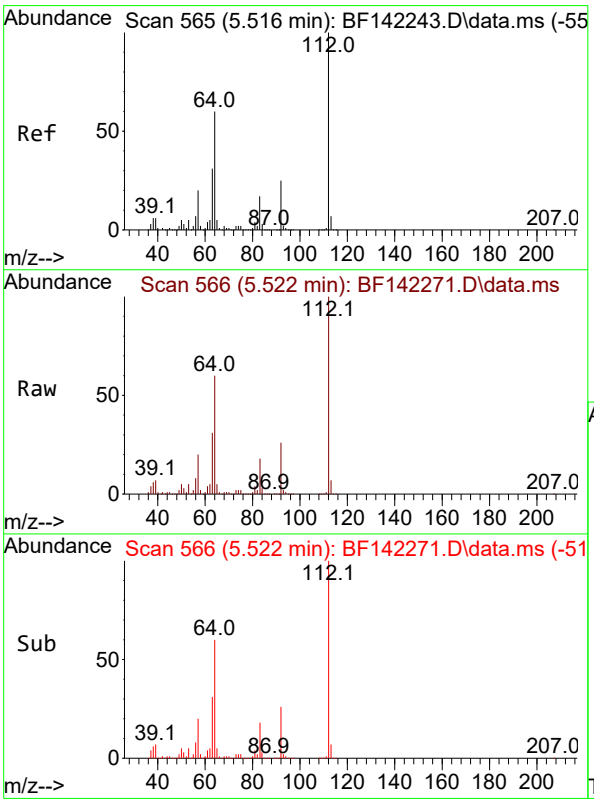
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:152 Resp: 201306

Ion	Ratio	Lower	Upper
152	100		
150	158.0	130.2	195.2
115	60.3	47.0	70.4

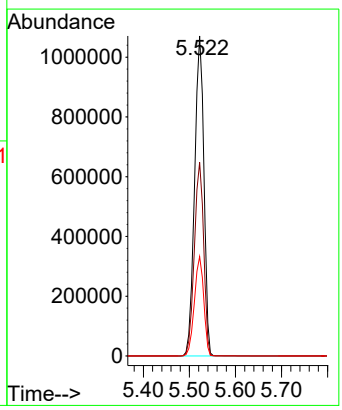


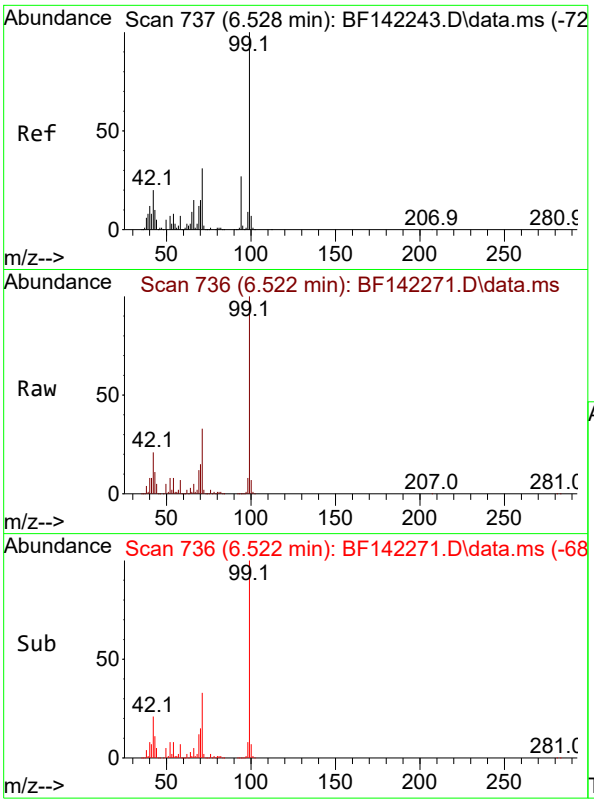


#5
2-Fluorophenol
Concen: 118.961 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:112 Resp: 1499481

Ion	Ratio	Lower	Upper
112	100		
64	60.5	48.4	72.6
63	31.0	24.8	37.2



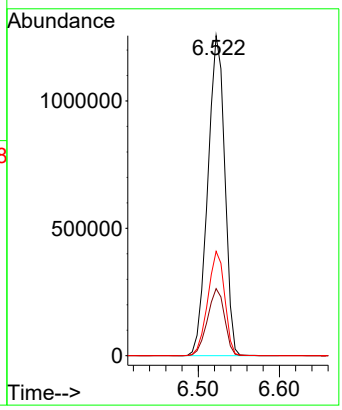


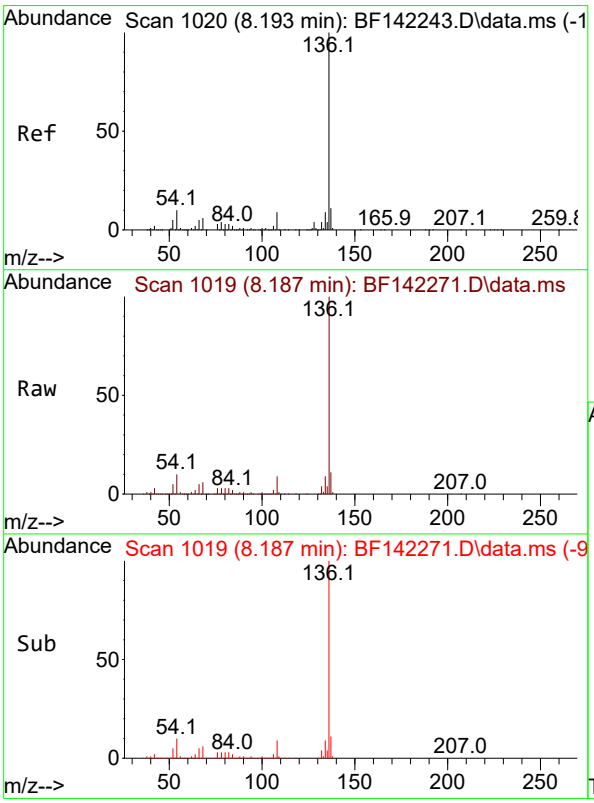
#7
Phenol-d6
Concen: 119.751 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion: 99 Resp: 1822753

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	32.6	25.0	37.4

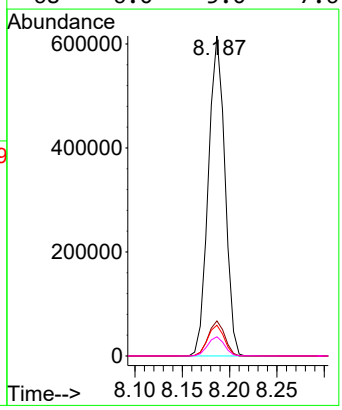


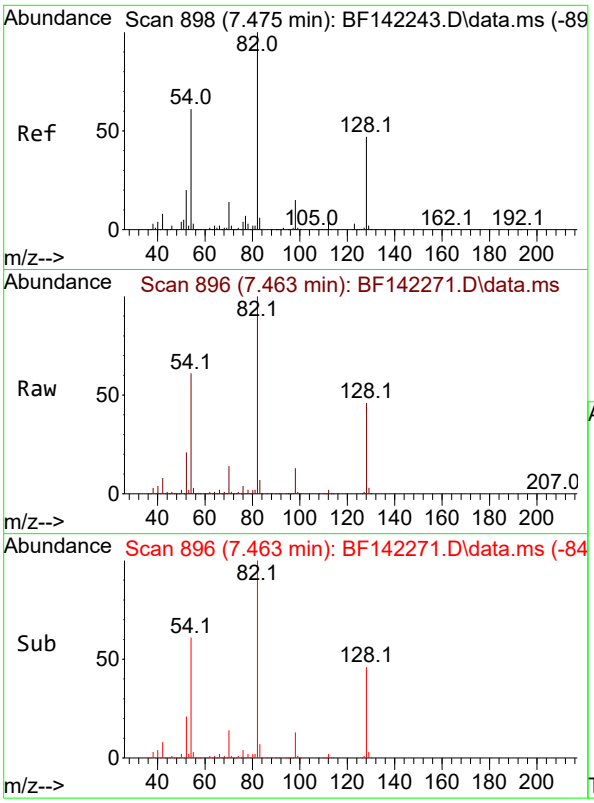


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:136 Resp: 748548

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	9.6	7.7	11.5
68	6.0	5.0	7.6



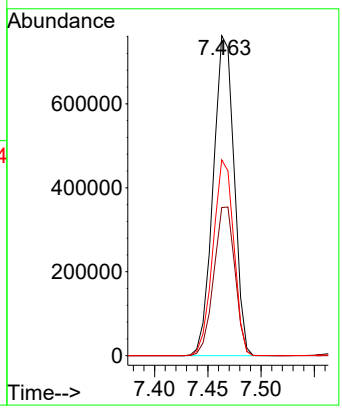


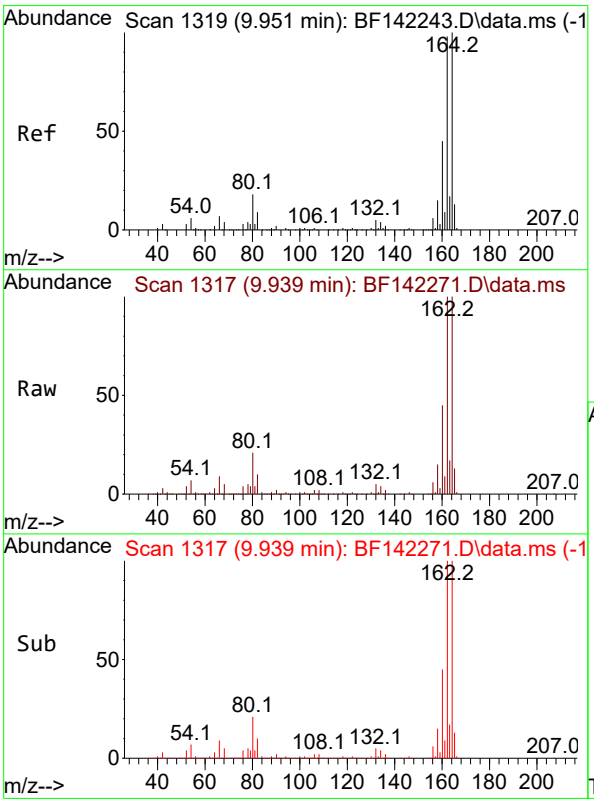
#23
Nitrobenzene-d5
Concen: 91.273 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion: 82 Resp: 1039957

Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.0	55.6
54	61.2	48.0	72.0

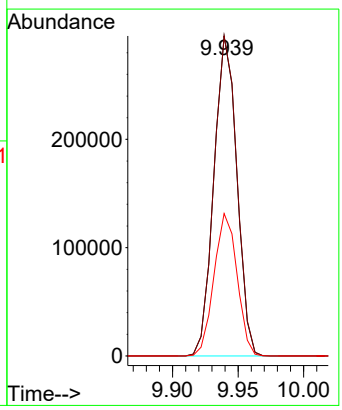


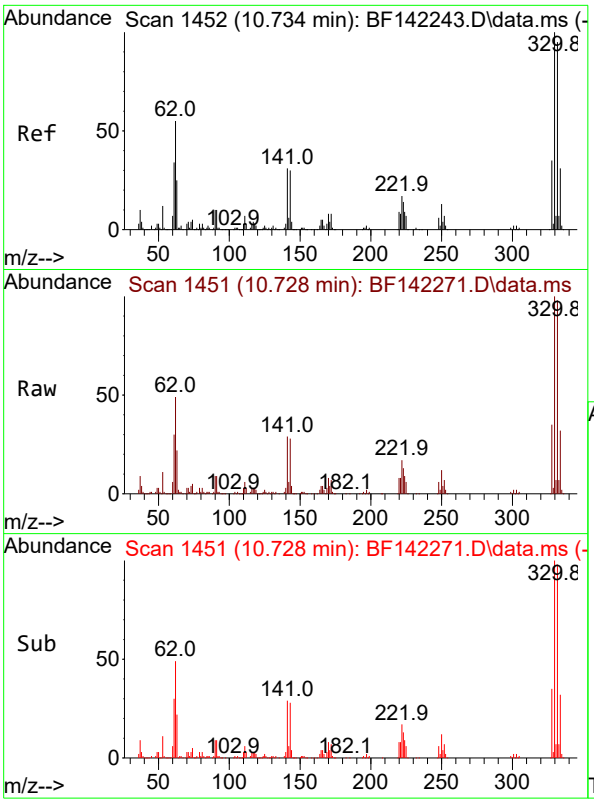


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:164 Resp: 358843

Ion	Ratio	Lower	Upper
164	100		
162	99.9	78.6	117.8
160	44.5	35.7	53.5



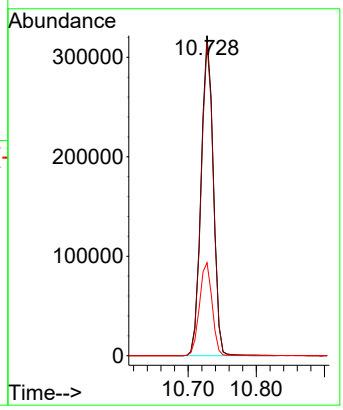


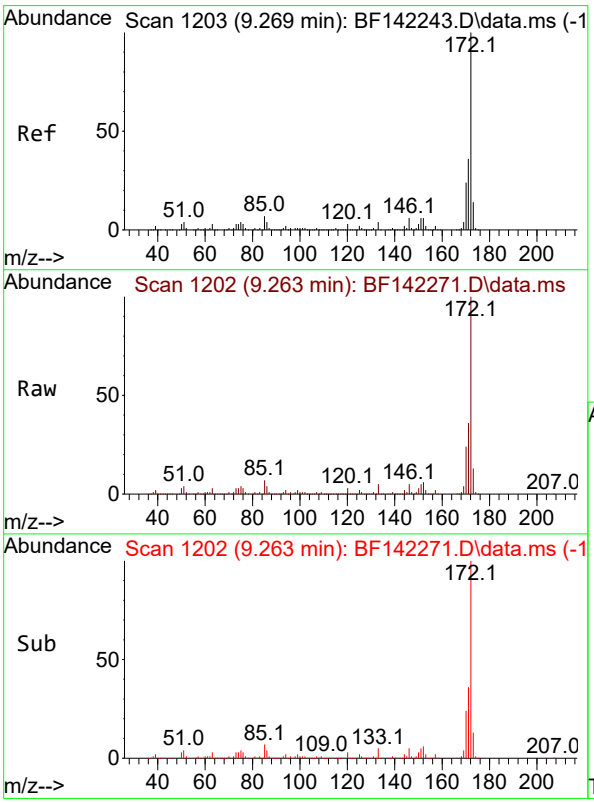
#42
2,4,6-Tribromophenol
Concen: 122.087 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:330 Resp: 399389

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.5	114.7
141	30.0	24.3	36.5

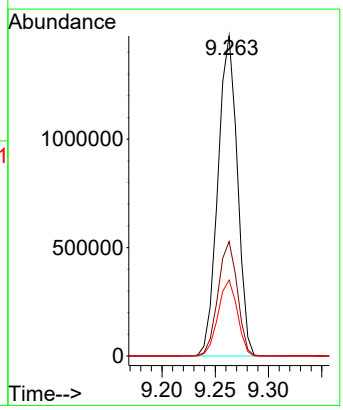


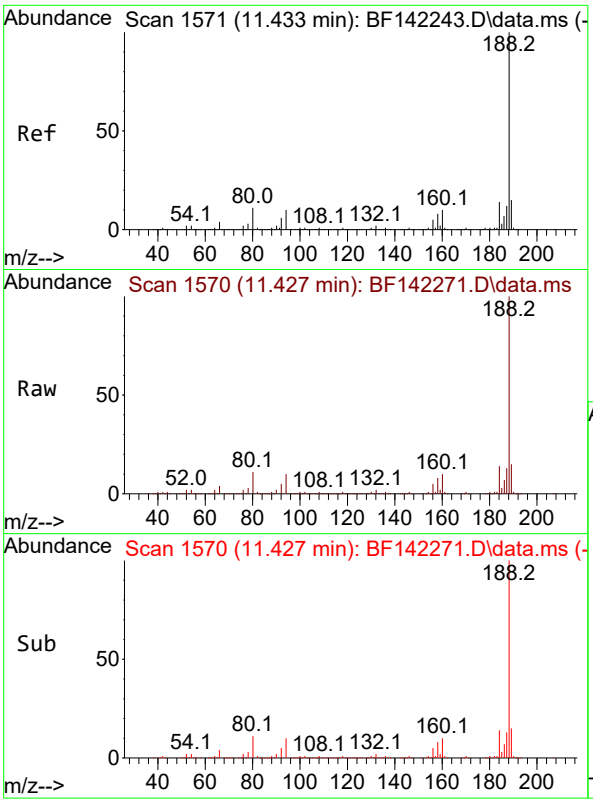


#45
2-Fluorobiphenyl
Concen: 73.507 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:172 Resp: 1870790

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.7	19.4	29.0



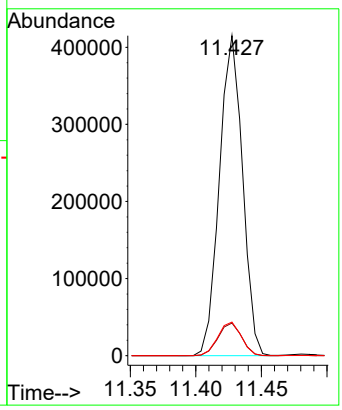


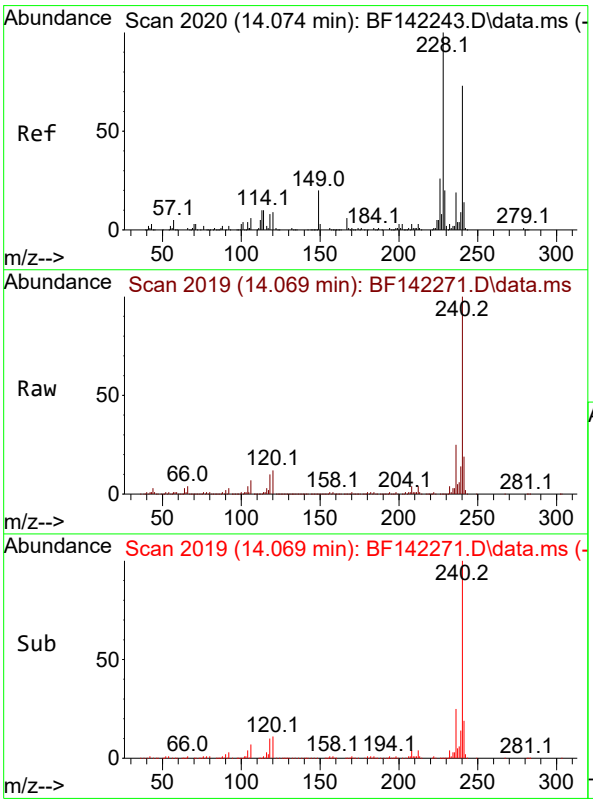
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:188 Resp: 508457

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.2
80	10.5	8.6	12.8

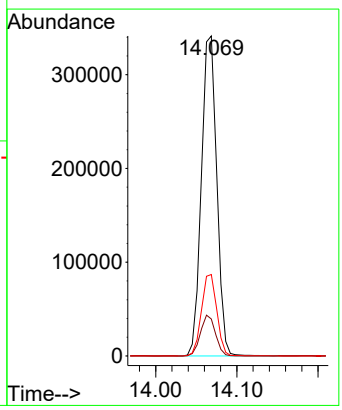


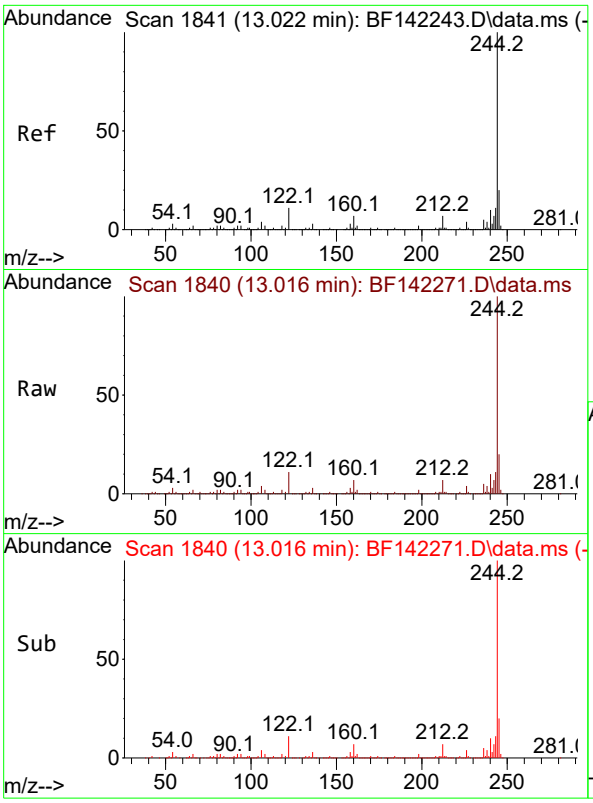


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:240 Resp: 449365

Ion	Ratio	Lower	Upper
240	100		
120	11.6	10.1	15.1
236	25.5	20.5	30.7



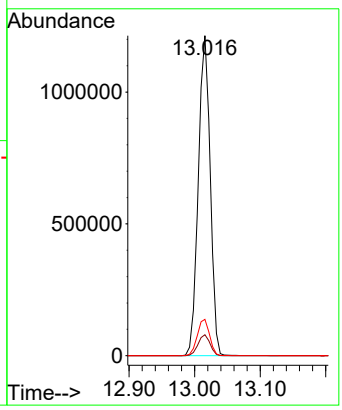


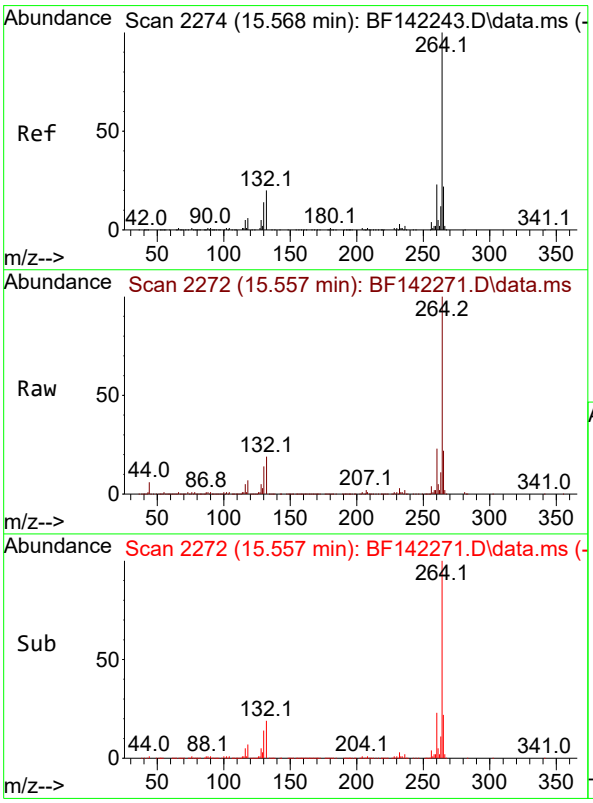
#79
Terphenyl-d14
Concen: 49.845 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:244 Resp: 1540049

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.3	9.1	13.7

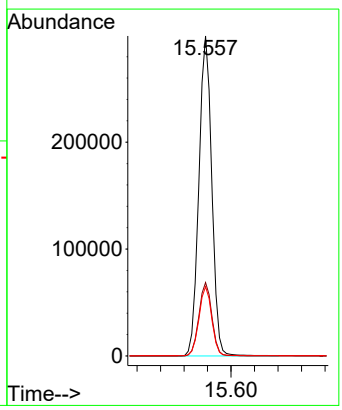




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:264 Resp: 455676

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.4	27.6
265	21.7	17.3	25.9



LSC Area Percent Report

Sample Results: **BF142271.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142271.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.316	15	21	28	rVB2	65584	106918	1.98%	0.262%
2	5.134	490	500	510	rVB	435020	695468	12.88%	1.706%
3	5.522	559	566	571	rBV	3782260	5300428	98.15%	13.001%
4	6.522	729	736	748	rBV	3671180	5400288	100.00%	13.246%
5	6.904	796	801	806	rVV	958484	1188058	22.00%	2.914%
6	7.463	890	896	902	rBV	2389646	3284497	60.82%	8.056%
7	7.716	934	939	944	rVB	116617	138007	2.56%	0.338%
8	8.187	1013	1019	1024	rBV	1237651	1515518	28.06%	3.717%
9	8.398	1052	1055	1060	rVB	46985	55611	1.03%	0.136%
10	9.263	1196	1202	1207	rBV	4244552	5389146	99.79%	13.218%
11	9.939	1312	1317	1322	rVB	1257347	1533208	28.39%	3.761%
12	10.245	1363	1369	1384	rBV	84915	352753	6.53%	0.865%
13	10.651	1434	1438	1443	rBV	469663	585548	10.84%	1.436%
14	10.728	1445	1451	1456	rBV	2356845	2979587	55.17%	7.308%
15	11.427	1565	1570	1575	rBV	1025908	1265312	23.43%	3.103%
16	11.957	1654	1660	1674	rBV2	424298	696667	12.90%	1.709%
17	12.739	1788	1793	1805	rBV	121880	207745	3.85%	0.510%
18	13.016	1834	1840	1845	rBV	3239748	4153061	76.90%	10.186%
19	13.592	1934	1938	1945	rVB	44145	67987	1.26%	0.167%
20	13.804	1966	1974	1987	rVV7	111369	488425	9.04%	1.198%
21	13.910	1987	1992	1999	rVV3	476169	763795	14.14%	1.873%
22	13.969	2000	2002	2008	rVB3	41991	68100	1.26%	0.167%
23	14.063	2013	2018	2026	rVB	919364	1240218	22.97%	3.042%
24	14.233	2043	2047	2054	rVB	80642	111043	2.06%	0.272%
25	14.545	2095	2100	2106	rBV	221979	324391	6.01%	0.796%
26	14.857	2149	2153	2163	rVB	66326	104787	1.94%	0.257%
27	15.210	2208	2213	2223	rBV2	117433	238752	4.42%	0.586%
28	15.557	2266	2272	2277	rBV	796266	1204470	22.30%	2.954%
29	16.057	2353	2357	2360	rBV	42310	66183	1.23%	0.162%
30	16.104	2361	2365	2373	rVB	73920	137330	2.54%	0.337%
31	16.945	2503	2508	2519	rVB2	75580	154810	2.87%	0.380%
32	17.257	2554	2561	2575	rBV6	122365	332162	6.15%	0.815%
33	17.680	2627	2633	2642	rBV4	93532	231831	4.29%	0.569%
34	18.515	2768	2775	2796	rVB4	111445	388401	7.19%	0.953%

Sum of corrected areas: 40770505

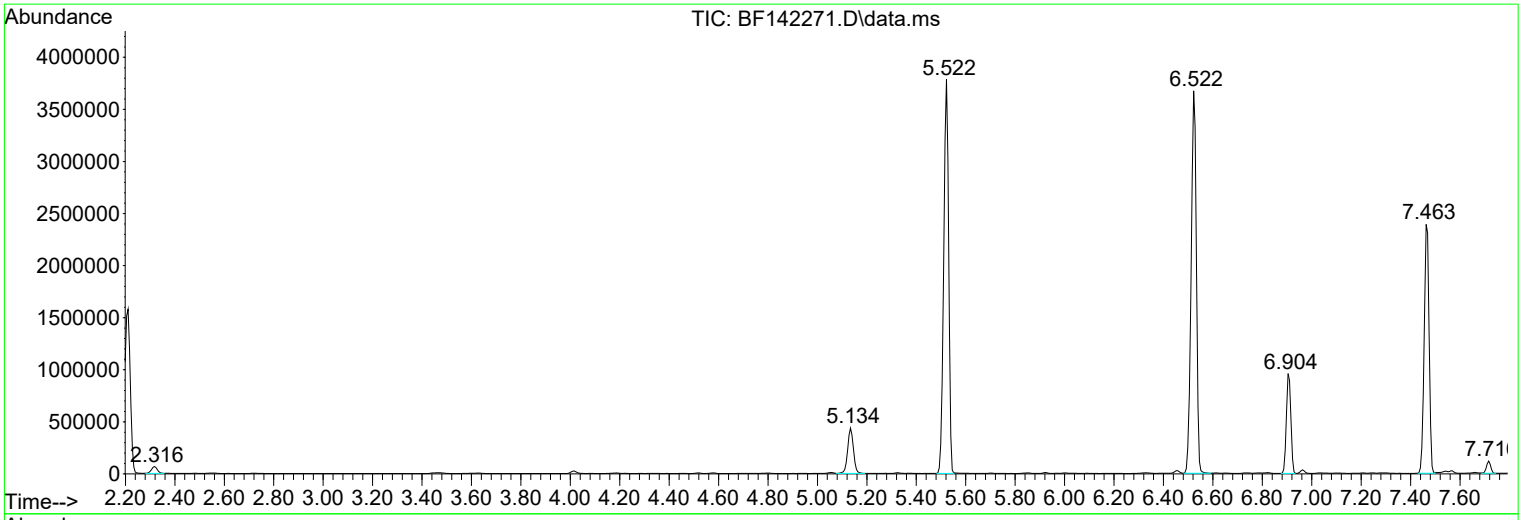
Sample Results: **BF142271.D**

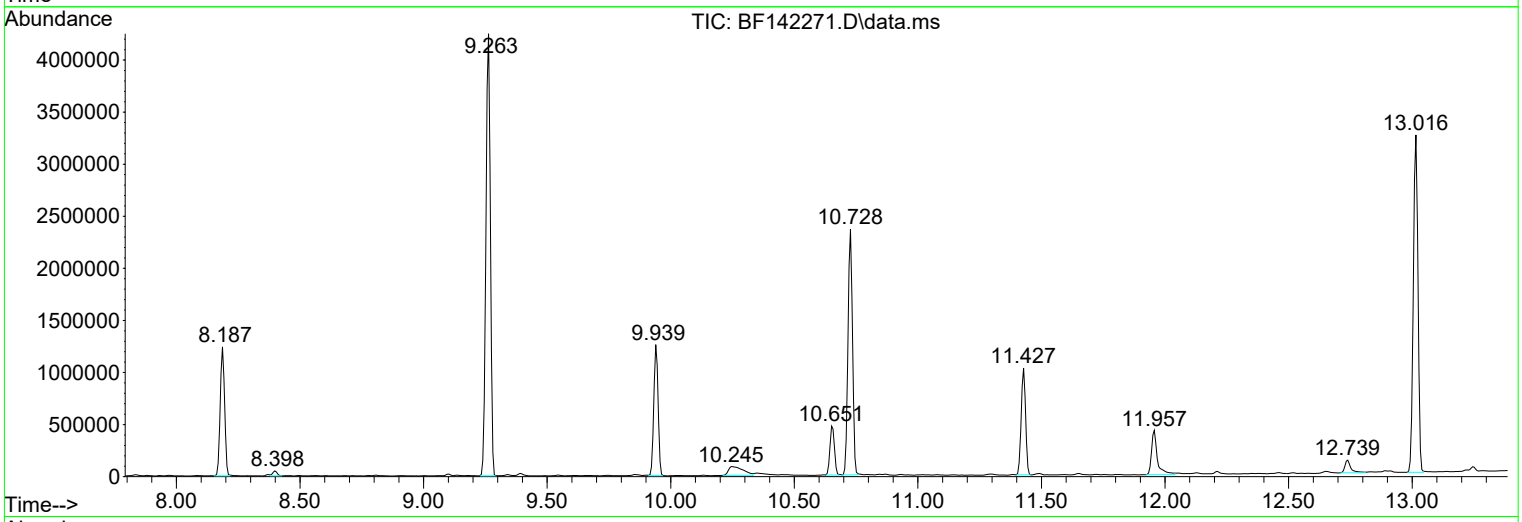
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

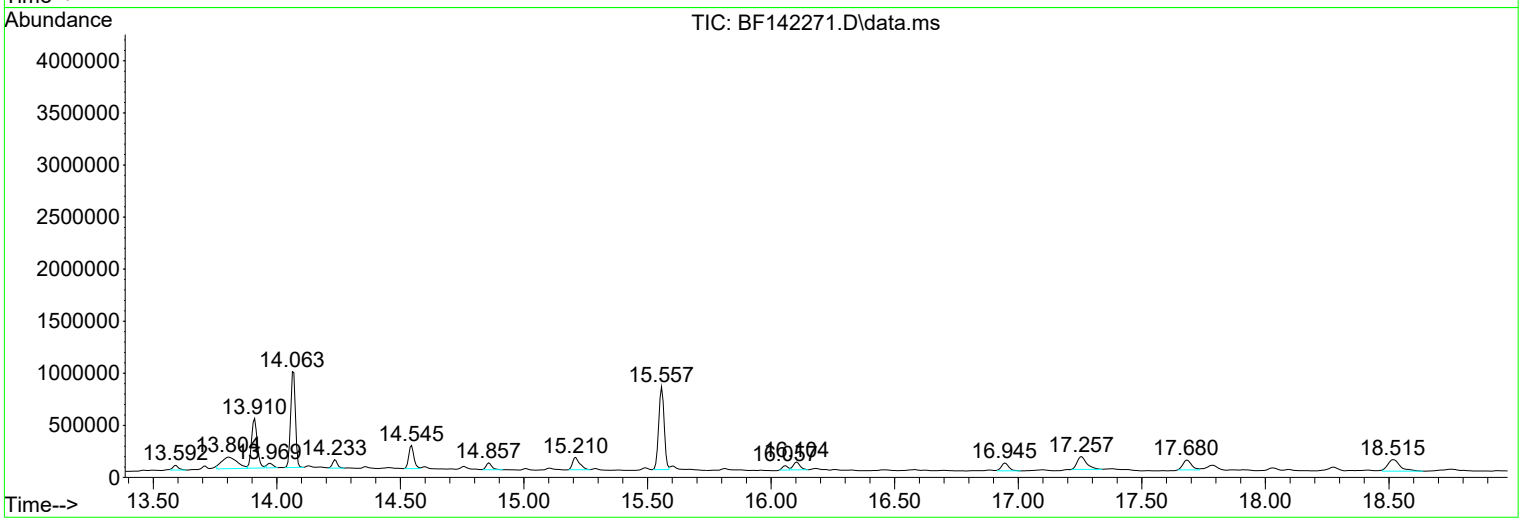
Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

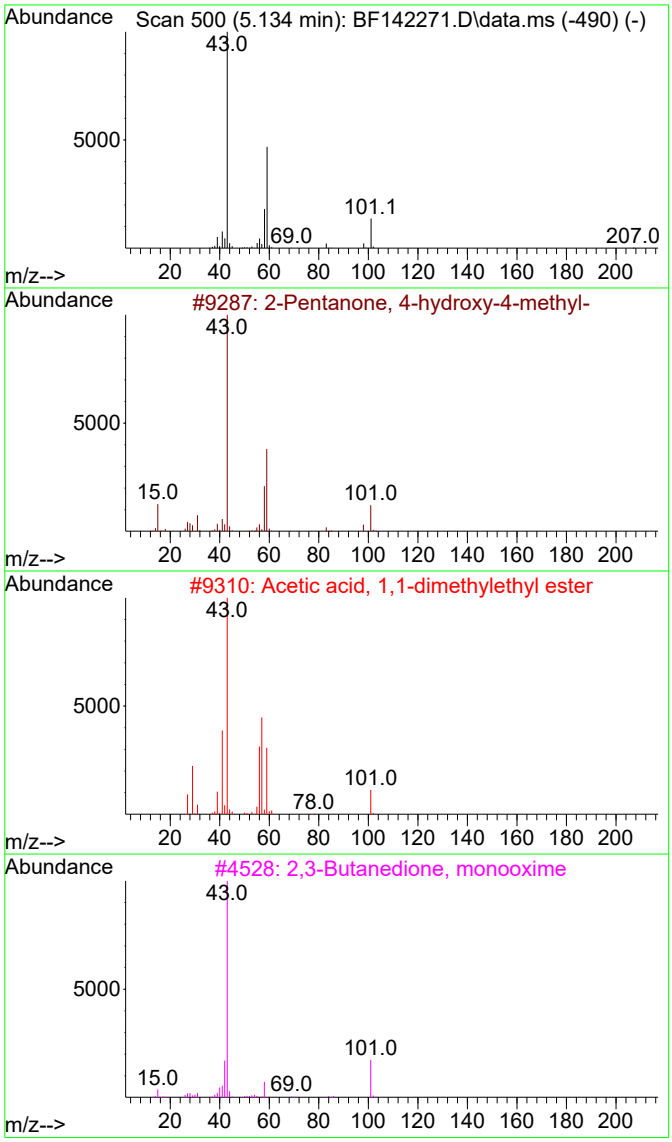
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

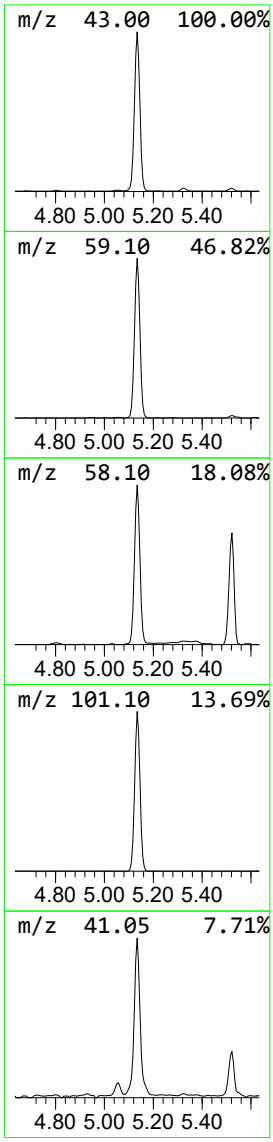
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	11.71 ng	695468	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	83
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

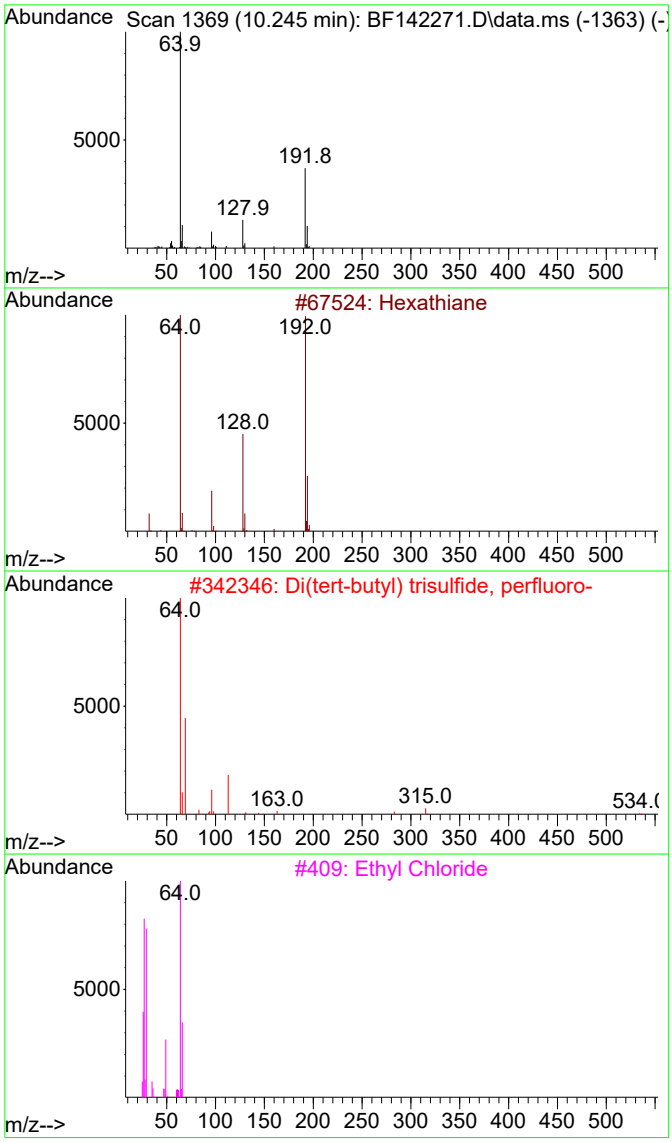
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

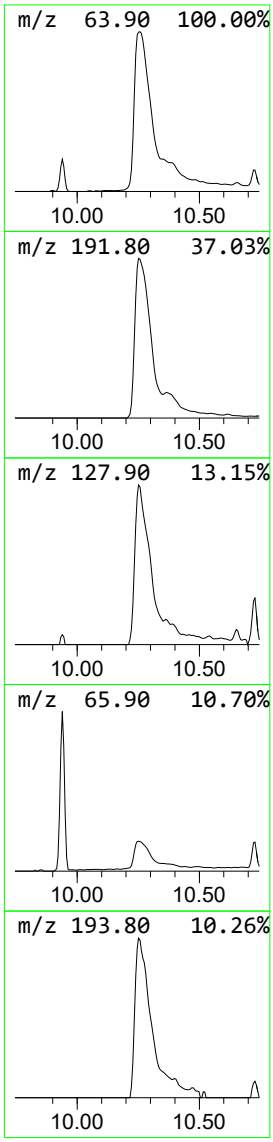
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Peak Number 2 Hexathiane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.245	4.60 ng	352753	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexathiane	192	S6	013798-23-7	91
2	Di(tert-butyl) trisulfide, perfl...	534	C8F18S3	016005-64-4	9
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	5
4	Sulfur dioxide	64	O2S	007446-09-5	4
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

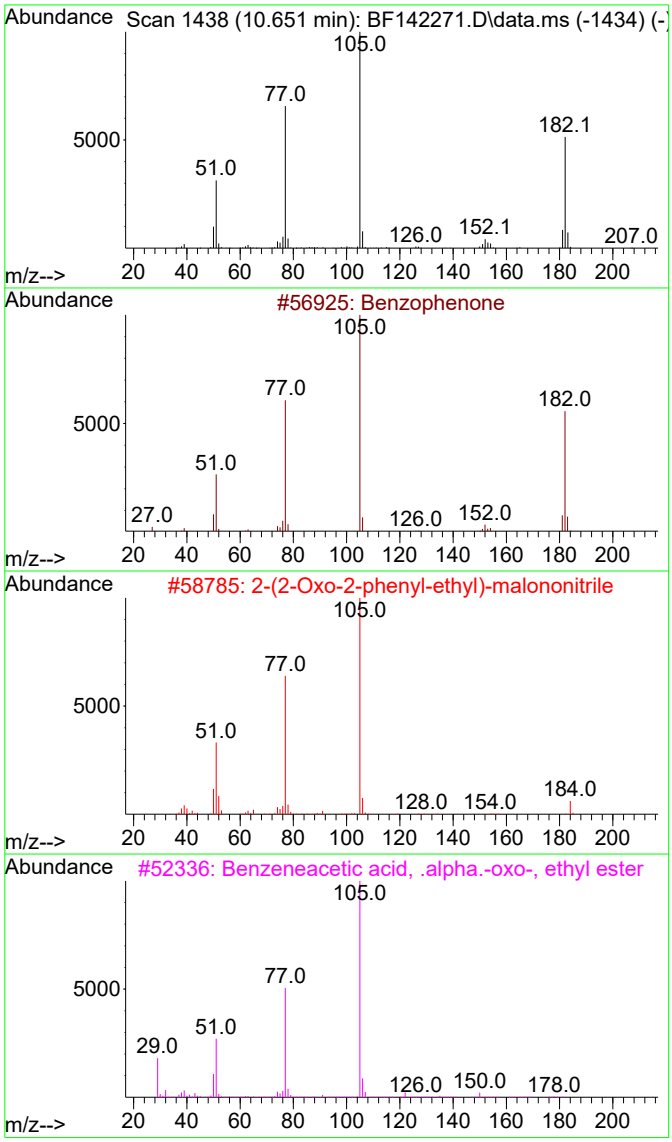
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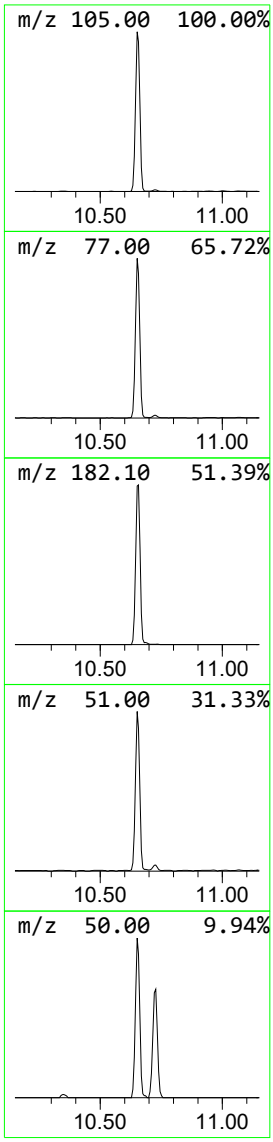
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Peak Number 3 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	7.64 ng	585548	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	58
3	Benzeneacetic acid, .alpha.-oxo-...	178	C10H10O3	001603-79-8	50
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
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Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
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Instrument :
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ClientSampleId :
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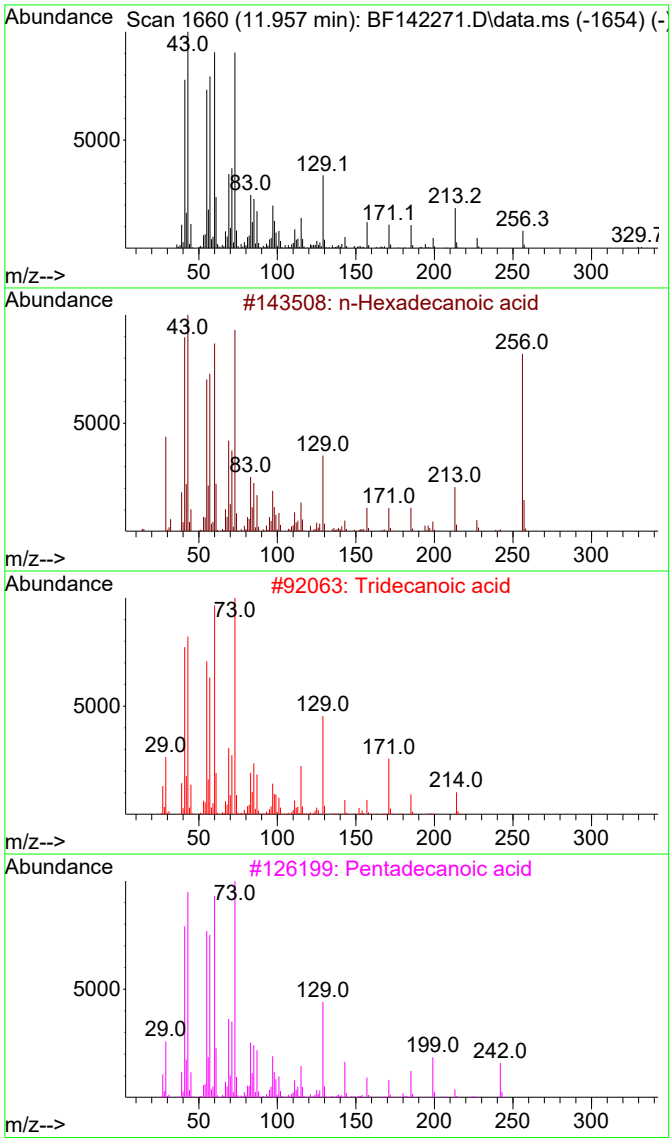
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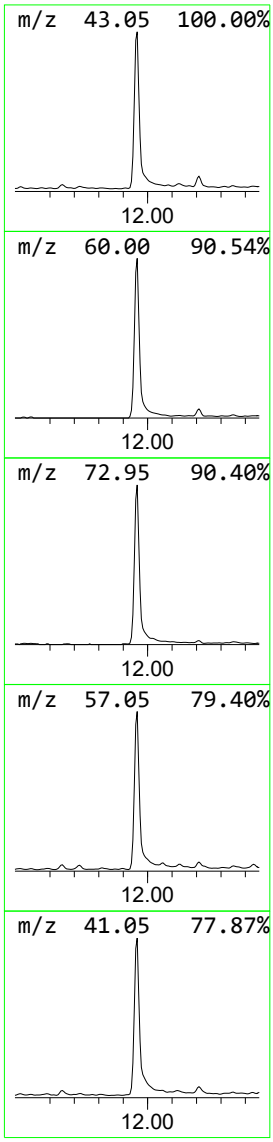
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.957	11.01 ng	696667	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Octadecanoic acid	284	C18H36O2	000057-11-4	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
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Sample : Q1901-04
Misc :
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ClientSampleId :
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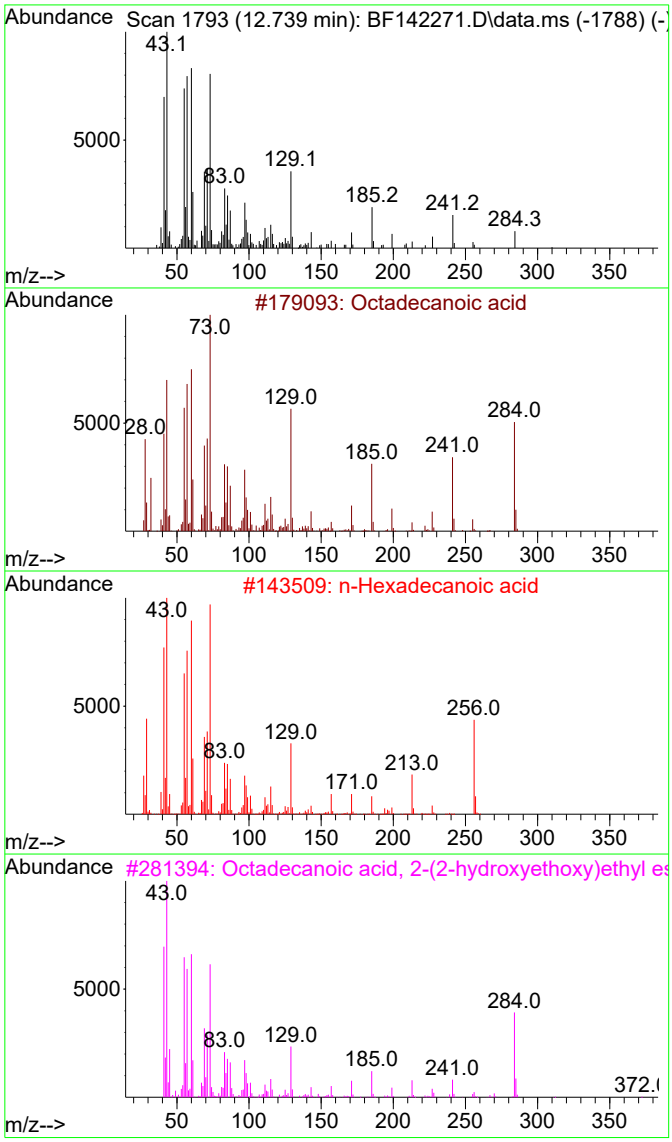
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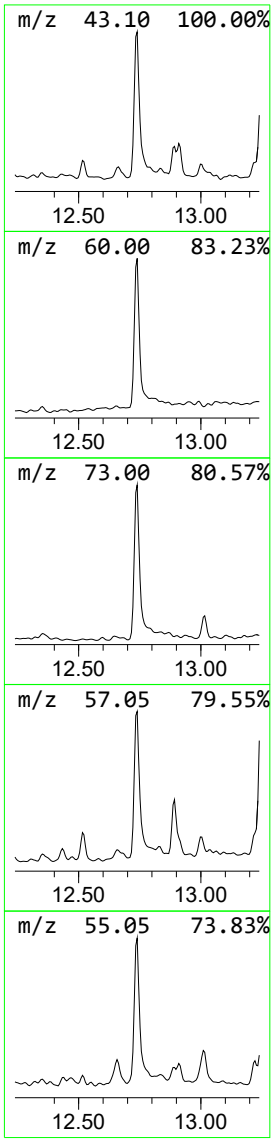
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Peak Number 5 Octadecanoic acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.739	3.28 ng	207745	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Undecanoic acid	186	C11H22O2	000112-37-8	60





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ClientSampleId :
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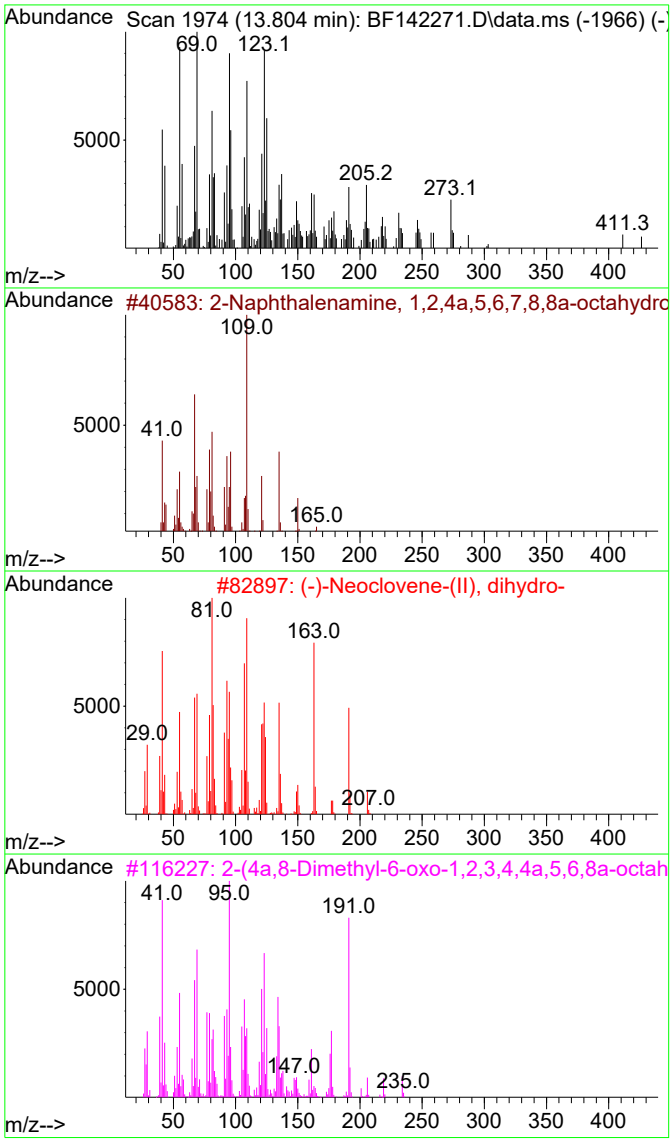
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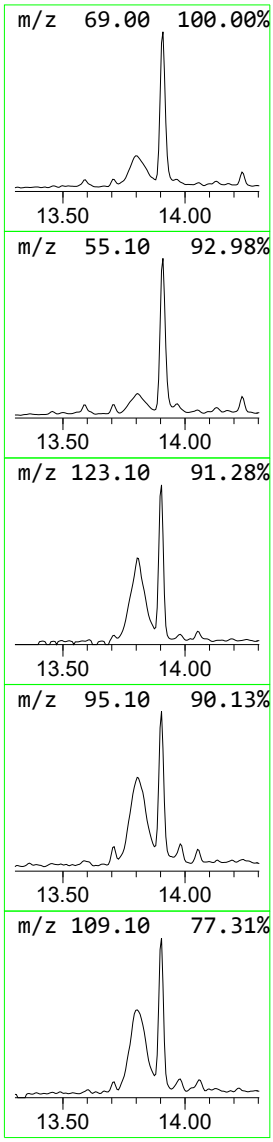
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Peak Number 6 unknown13.804 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.804	7.88 ng	488425	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenamine, 1,2,4a,5,6,7,...	165	C11H19N	056053-03-3	41
2	(-)-Neoclovene-(II), dihydro-	206	C15H26	1000152-83-6	38
3	2-(4a,8-Dimethyl-6-oxo-1,2,3,4,4...	234	C15H22O2	1000190-21-8	38
4	(2Z,4E)-3,7,11-Trimethyl-2,4,10-...	206	C15H26	172549-29-0	35
5	1-Formyl-2,2-dimethyl-3-trans-(3...	220	C15H24O	1000144-09-7	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
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Sample : Q1901-04
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ClientSampleId :
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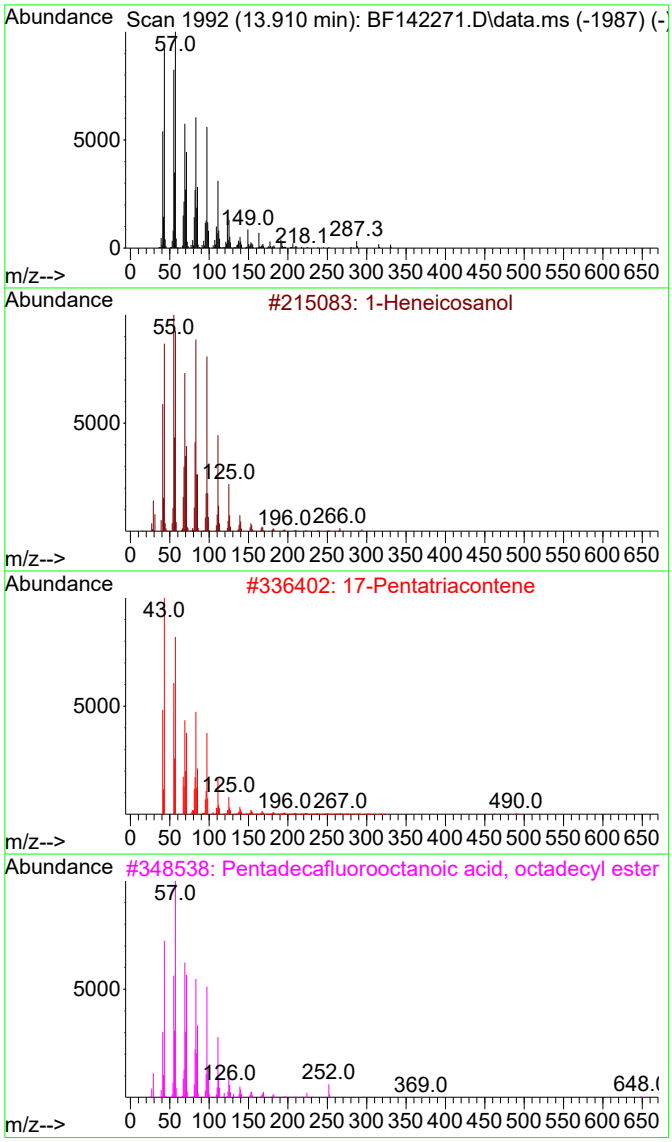
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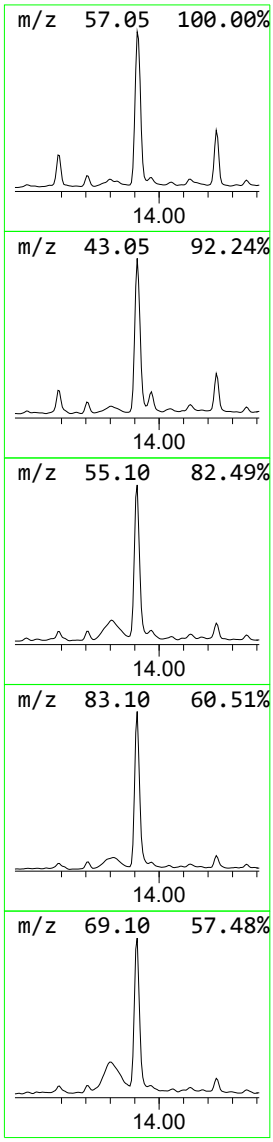
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Peak Number 7 1-Heneicosanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	12.32 ng	763795	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	93
3	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
4	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	93
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
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ClientSampleId :
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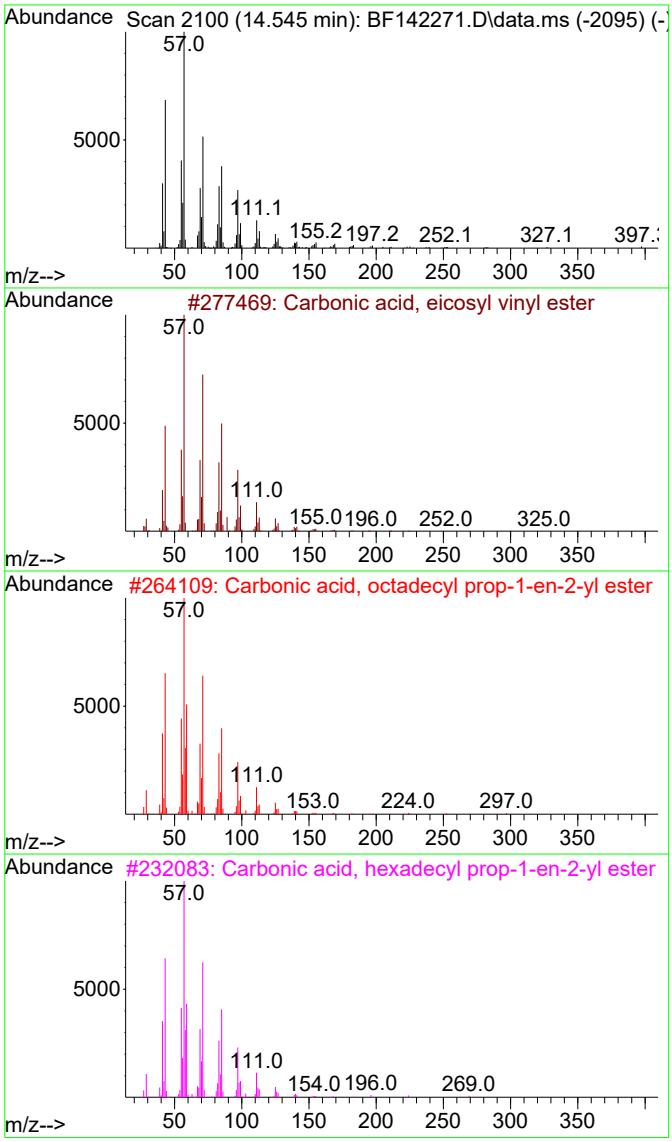
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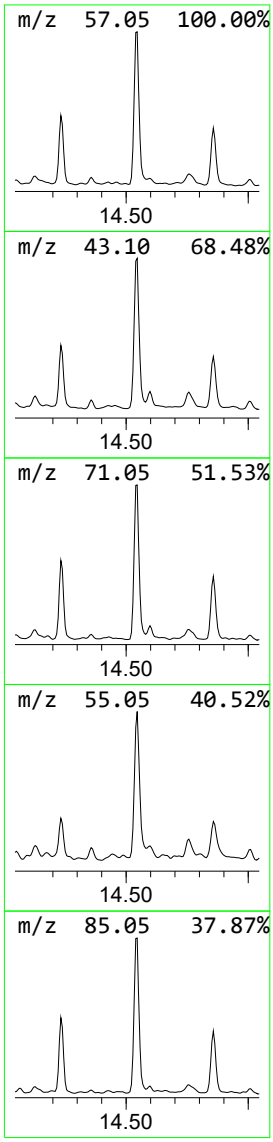
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Peak Number 8 Carbonic acid, eicosyl viny... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.545	5.23 ng	324391	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	91
2	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	91
3	Carbonic acid, hexadecyl prop-1-...	326	C20H38O3	1000382-90-3	91
4	Carbonic acid, octadecyl vinyl e...	340	C21H40O3	1000382-54-4	87
5	Sulfurous acid, octadecyl 2-prop...	376	C21H44O3S	1000309-12-7	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
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Sample : Q1901-04
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Instrument :
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ClientSampleId :
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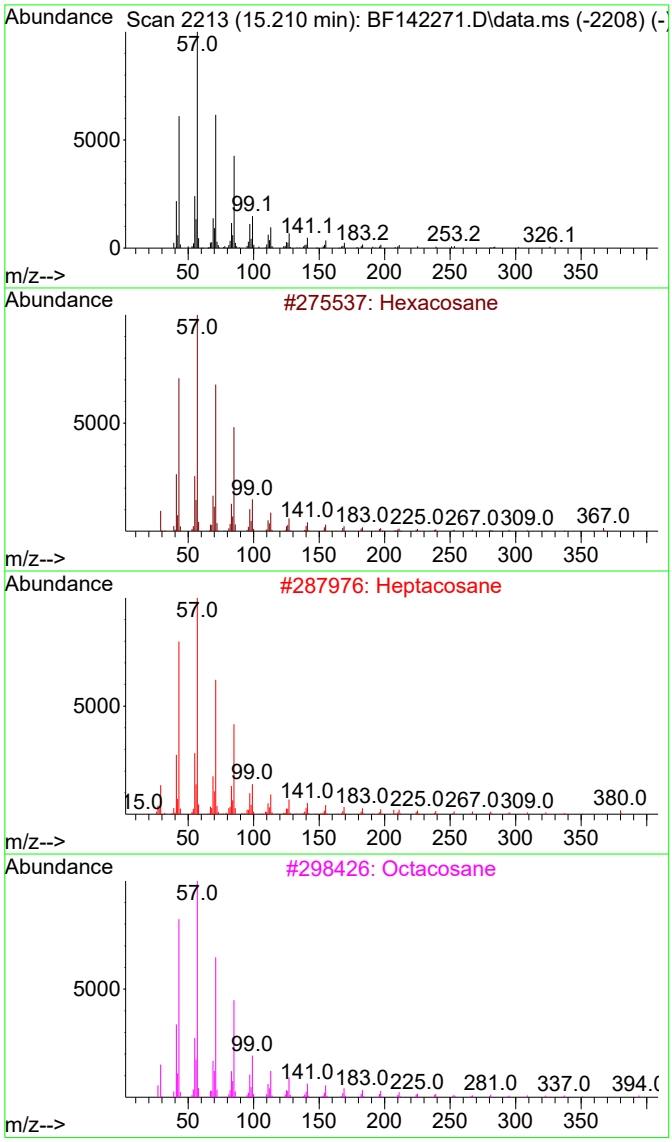
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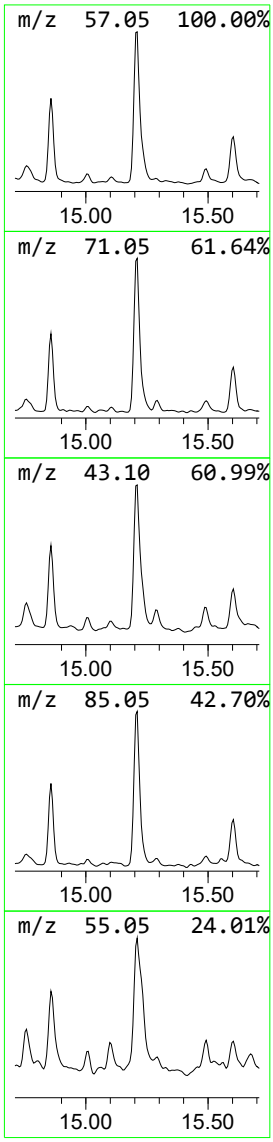
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Peak Number 9 Hexacosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.210	3.96 ng	238752	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	94
2	Heptacosane	380	C27H56	000593-49-7	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
5	Heneicosane	296	C21H44	000629-94-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
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Instrument :
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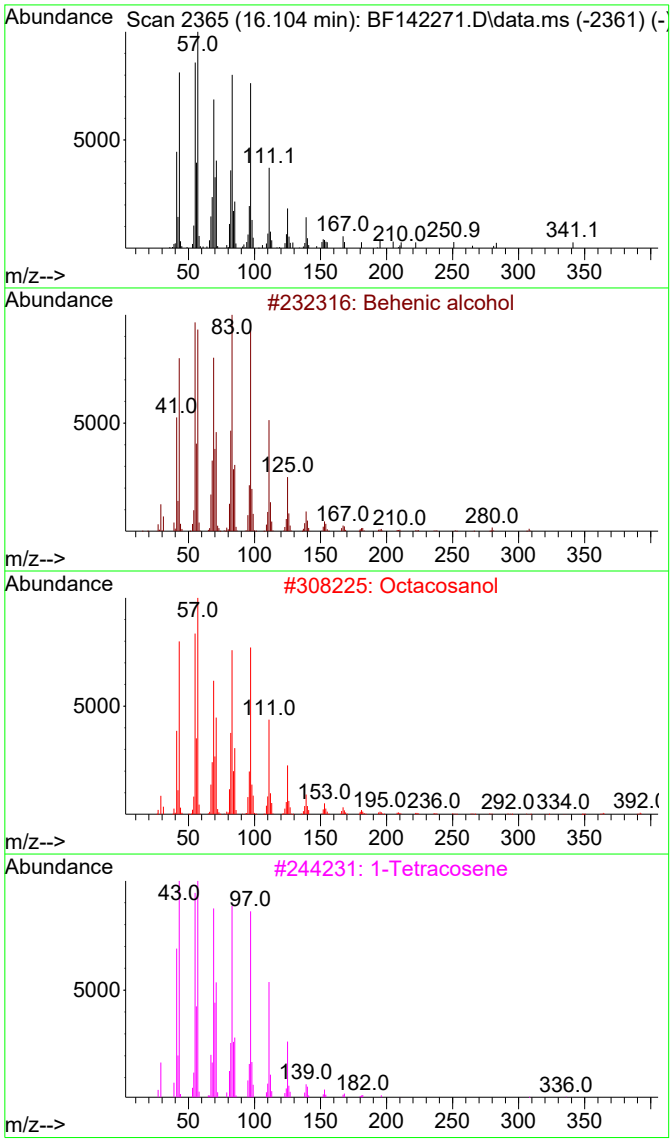
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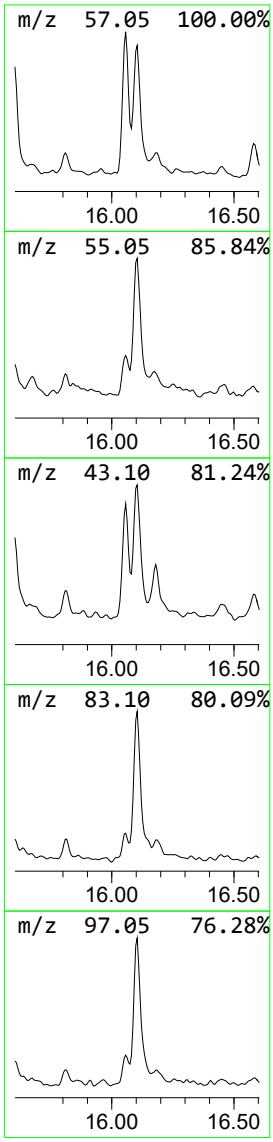
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Peak Number 10 Behenic alcohol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.104	2.28 ng	137330	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	91
2	Octacosanol	410	C28H58O	000557-61-9	90
3	1-Tetracosene	336	C24H48	010192-32-2	90
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
5	1-Heneicosanol	312	C21H44O	015594-90-8	90





Sample Results: **BF142271.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
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Sample : Q1901-04
Misc :
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Instrument :
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ClientSampleId :
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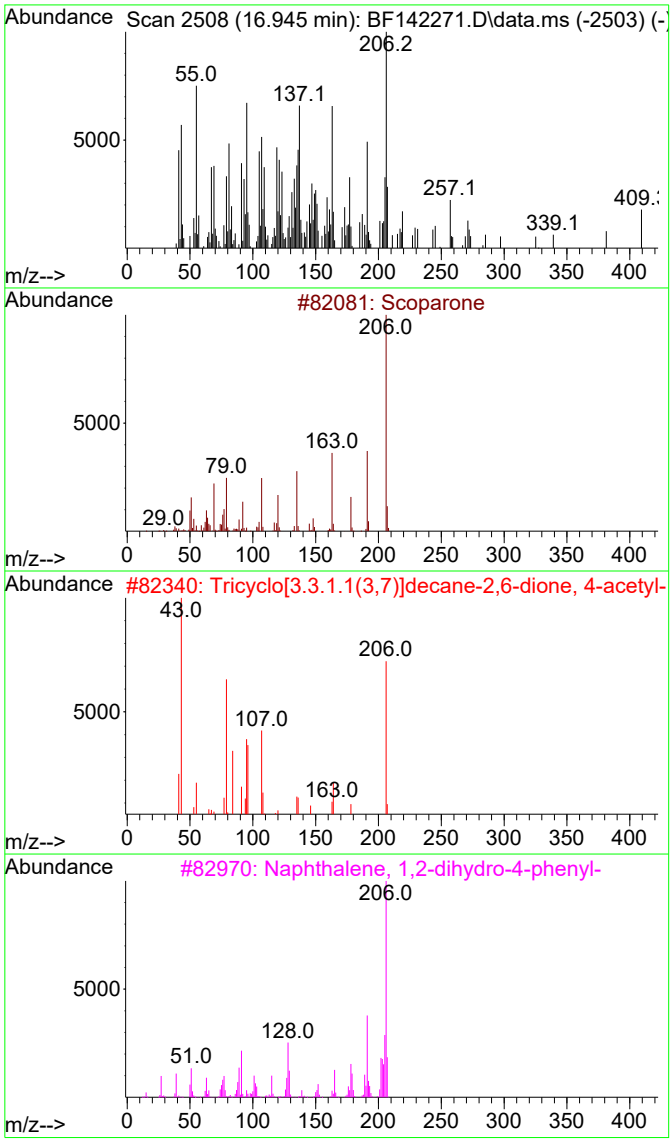
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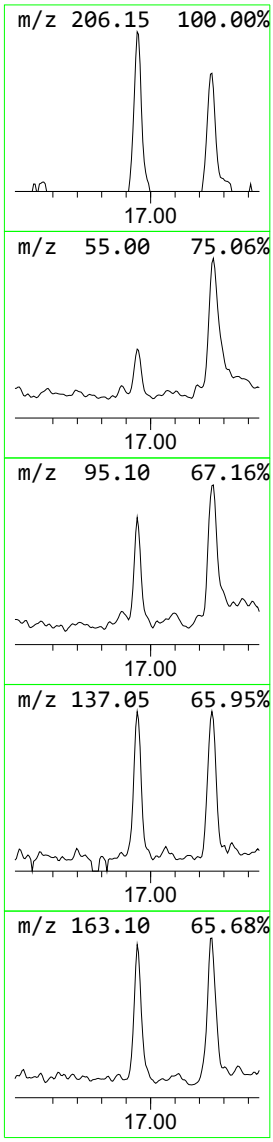
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Peak Number 11 unknown16.945 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.945	2.57 ng	154810	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Scoparone	206	C11H10O4	000120-08-1	45
2	Tricyclo[3.3.1.1(3,7)]decane-2,6...	206	C12H14O3	056781-92-1	38
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	35
4	2-Hydroxy-3-methoxyphenylacetoni...	163	C9H9NO2	042973-56-8	30
5	1-(2-Hydroxyphenyl)piperazine, N...	206	C12H18N2O	148547-51-7	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
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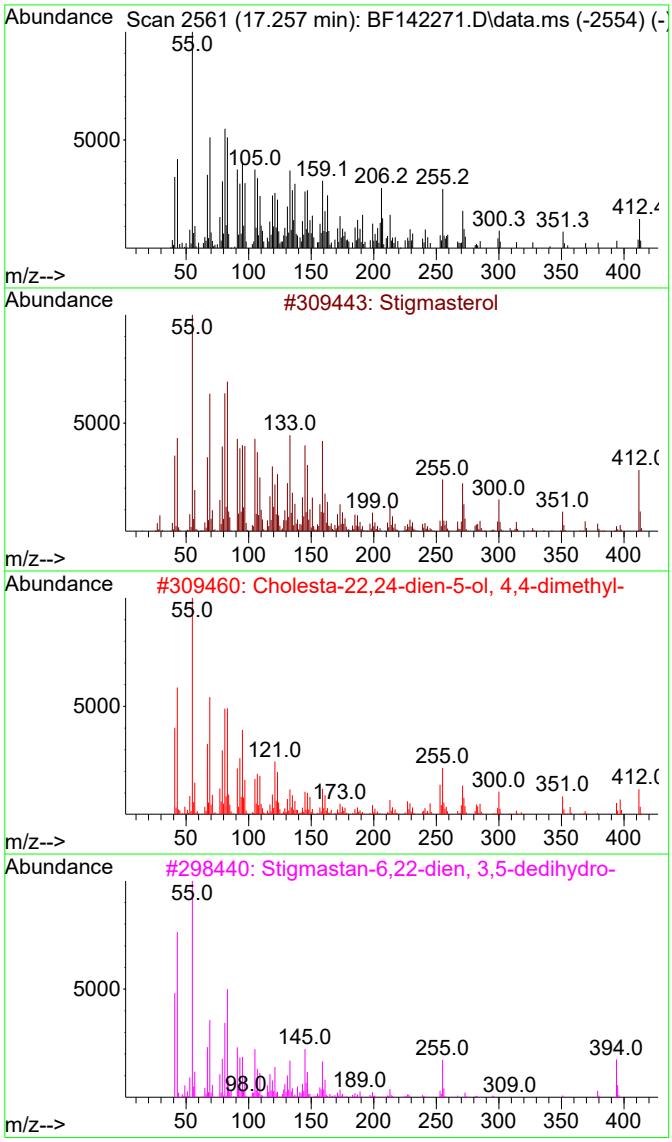
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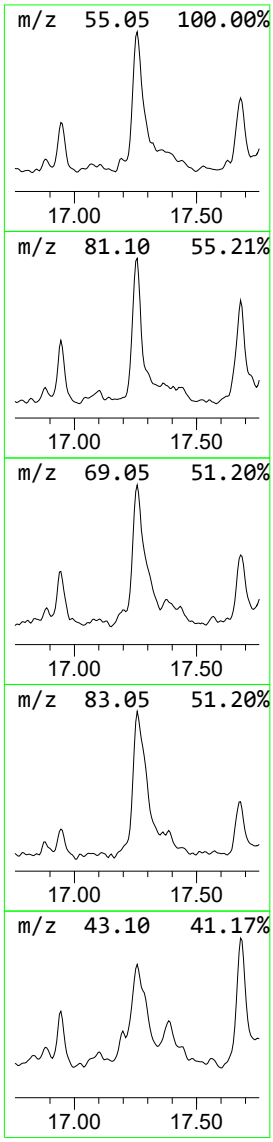
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Peak Number 12 Stigmasterol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.256	5.52 ng	332162	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	96
2	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	50
3	Stigmastan-6,22-dien, 3,5-dedihy...	394	C29H46	107304-12-1	41
4	Chondrillasterol	412	C29H48O	000481-17-4	38
5	1-Methyl-4-(1-methylethenyl)-3-[...	412	C30H52	1000370-41-5	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
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Operator : RC/JU
Sample : Q1901-04
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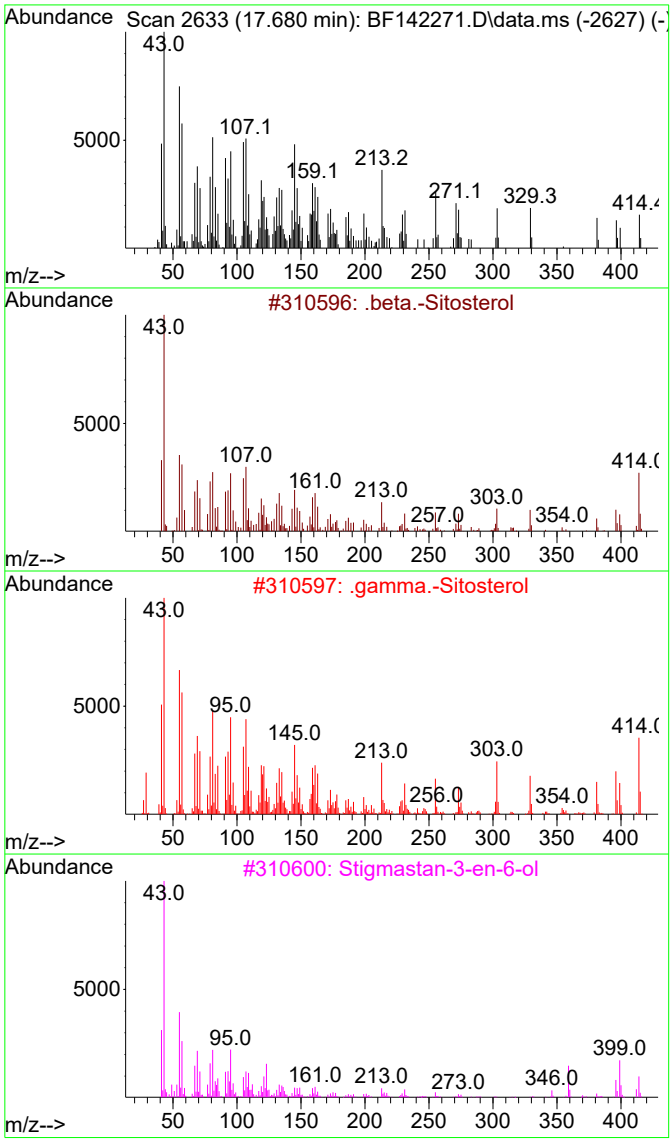
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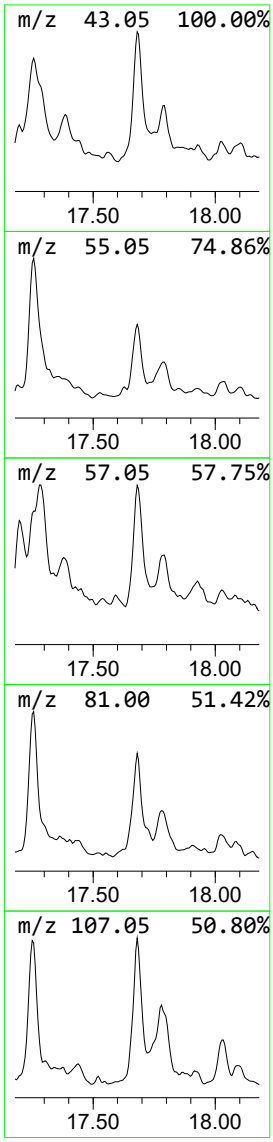
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Peak Number 13 .beta.-Sitosterol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.680	3.85 ng	231831	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	98
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	76
3	Stigmastan-3-en-6-ol	414	C29H50O	1000214-19-7	38
4	(1R,4aR,5S)-5-[(E)-5-Hydroxy-3-m...	304	C20H32O2	1214984-94-7	35
5	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

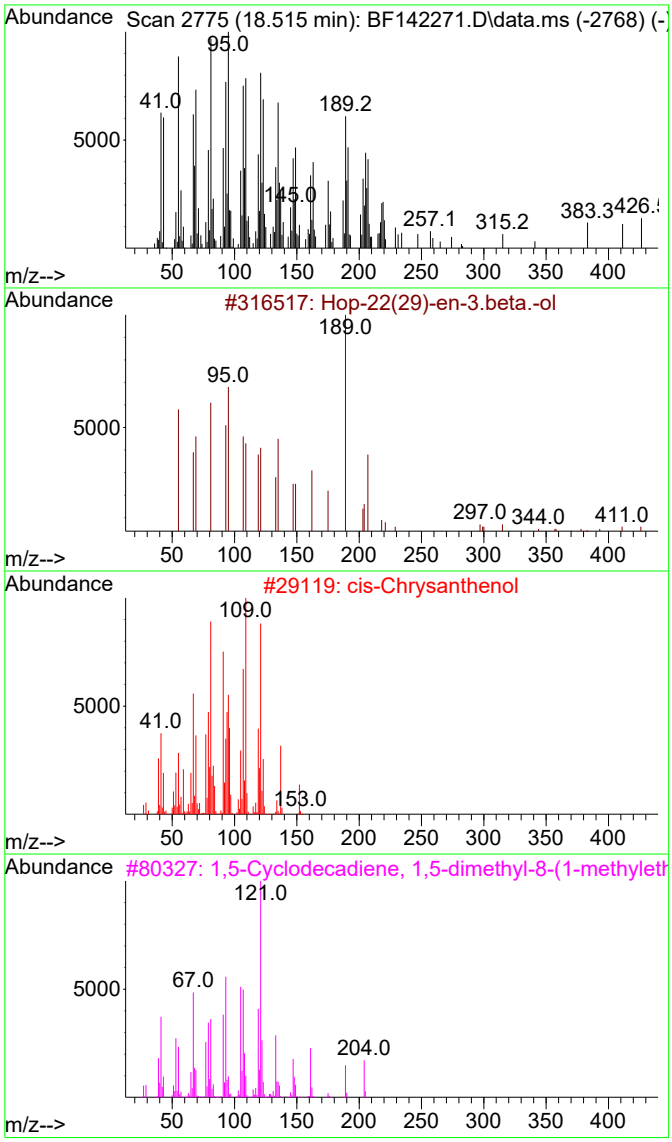
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TIC Integration Parameters: LSCINT.P

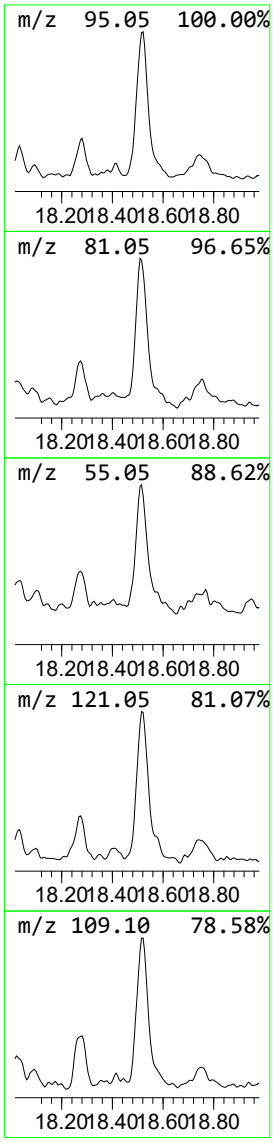
****

Peak Number 14 Hop-22(29)-en-3.beta.-ol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.515	6.45 ng	388401	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hop-22(29)-en-3.beta.-ol	426	C30H50O	058801-23-3	70
2	cis-Chrysanthenol	152	C10H16O	055722-60-6	55
3	1,5-Cyclodecadiene, 1,5-dimethyl...	204	C15H24	015423-57-1	53
4	Guaia-9,11-diene	204	C15H24	1000374-19-8	53
5	2-Buten-1-ol, 2-ethyl-4-(2,2,3-t...	208	C14H24O	028219-61-6	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.134	11.7	ng	695468	1	6.904	1188060	20.0
Hexathiane	10.245	4.6	ng	352753	3	9.939	1533210	20.0
Benzophenone	10.651	7.6	ng	585548	3	9.939	1533210	20.0
n-Hexadecanoic ...	11.957	11.0	ng	696667	4	11.428	1265310	20.0
Octadecanoic acid	12.739	3.3	ng	207745	4	11.428	1265310	20.0
unknown13.804	13.804	7.9	ng	488425	5	14.069	1240220	20.0
1-Heneicosanol	13.910	12.3	ng	763795	5	14.069	1240220	20.0
Carbonic acid, ...	14.545	5.2	ng	324391	5	14.069	1240220	20.0
Hexacosane	15.210	4.0	ng	238752	6	15.557	1204470	20.0
Behenic alcohol	16.104	2.3	ng	137330	6	15.557	1204470	20.0
unknown16.945	16.945	2.6	ng	154810	6	15.557	1204470	20.0
Stigmasterol	17.256	5.5	ng	332162	6	15.557	1204470	20.0
.beta.-Sitosterol	17.680	3.9	ng	231831	6	15.557	1204470	20.0
Hop-22(29)-en-3...	18.515	6.5	ng	388401	6	15.557	1204470	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Time: May 02 01:09:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

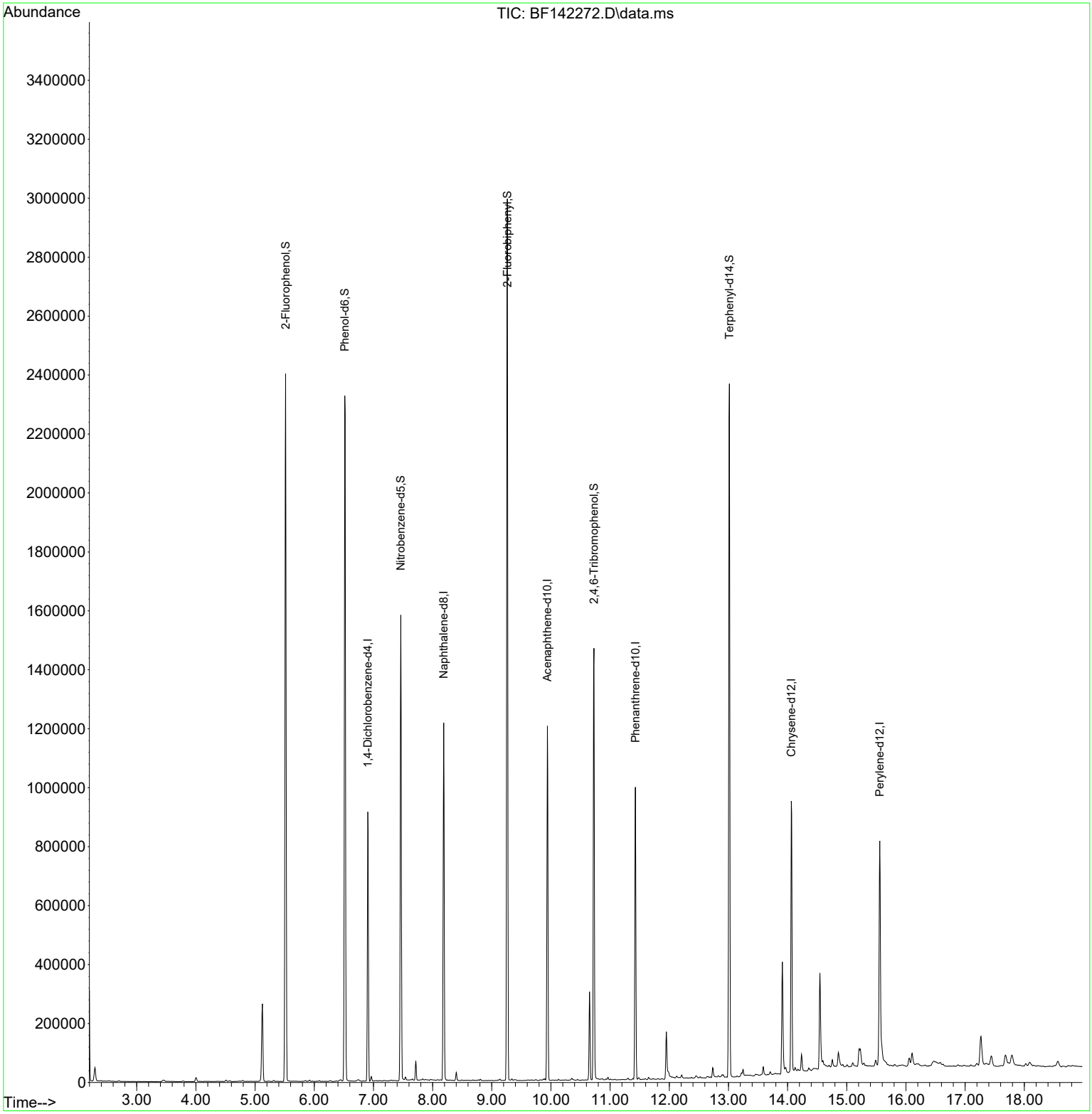
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	191116	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	720969	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	342220	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	490996	20.000	ng	0.00
76) Chrysene-d12	14.062	240	440399	20.000	ng	-0.01
86) Perylene-d12	15.557	264	434416	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	885089	73.962	ng	0.00
7) Phenol-d6	6.516	99	1088394	75.318	ng	-0.01
23) Nitrobenzene-d5	7.463	82	624188	56.878	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	243819	78.152	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1306976	53.848	ng	0.00
79) Terphenyl-d14	13.015	244	1131952	37.382	ng	0.00
Target Compounds						Qvalue

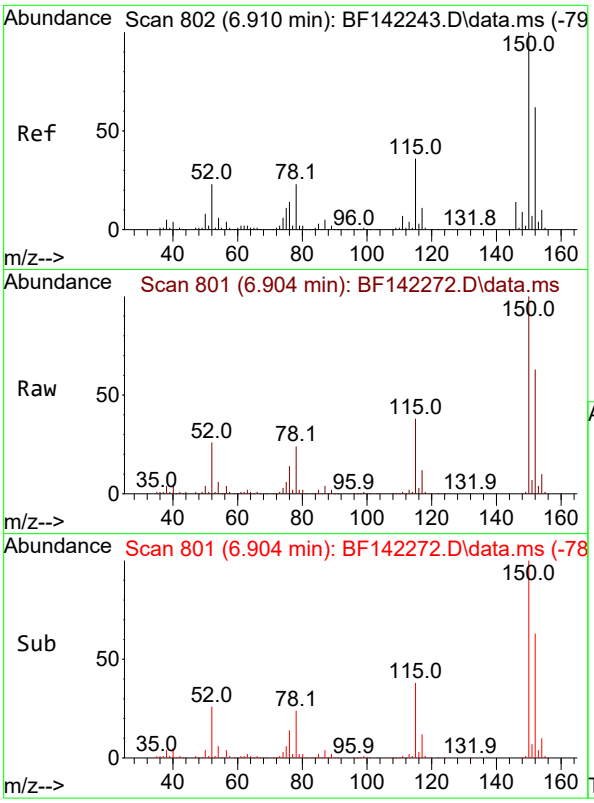
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Time: May 02 01:09:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



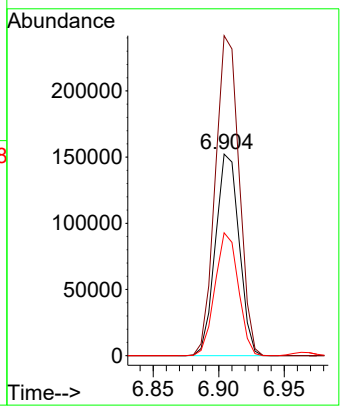


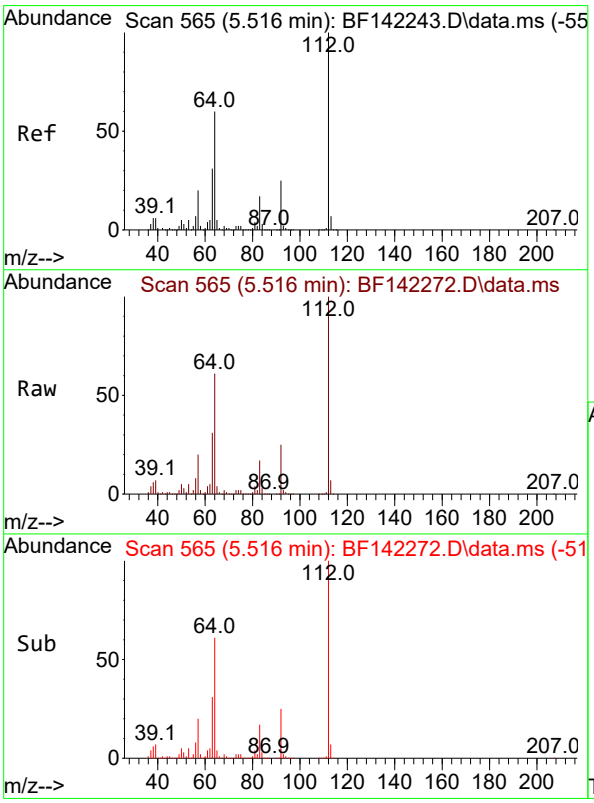
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:152 Resp: 191116

Ion	Ratio	Lower	Upper
152	100		
150	158.7	130.2	195.2
115	60.9	47.0	70.4

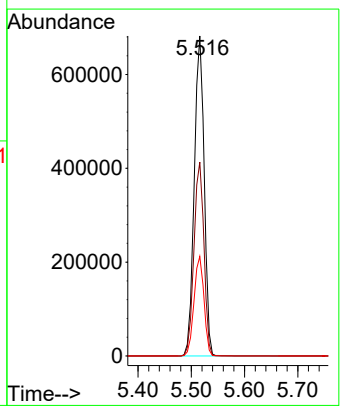


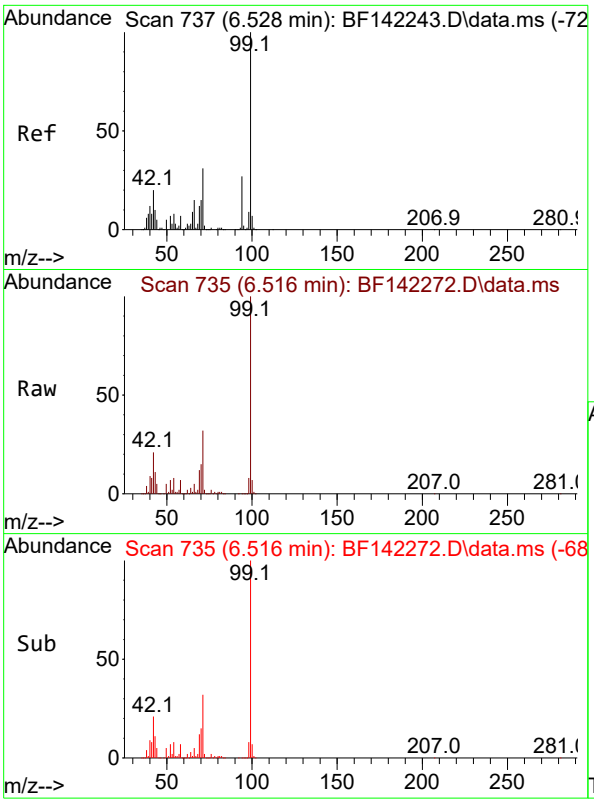


#5
2-Fluorophenol
Concen: 73.962 ng
RT: 5.516 min Scan# 565
Delta R.T. -0.000 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:112 Resp: 885089

Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.4	72.6
63	31.1	24.8	37.2



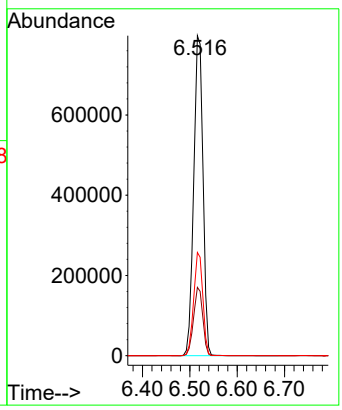


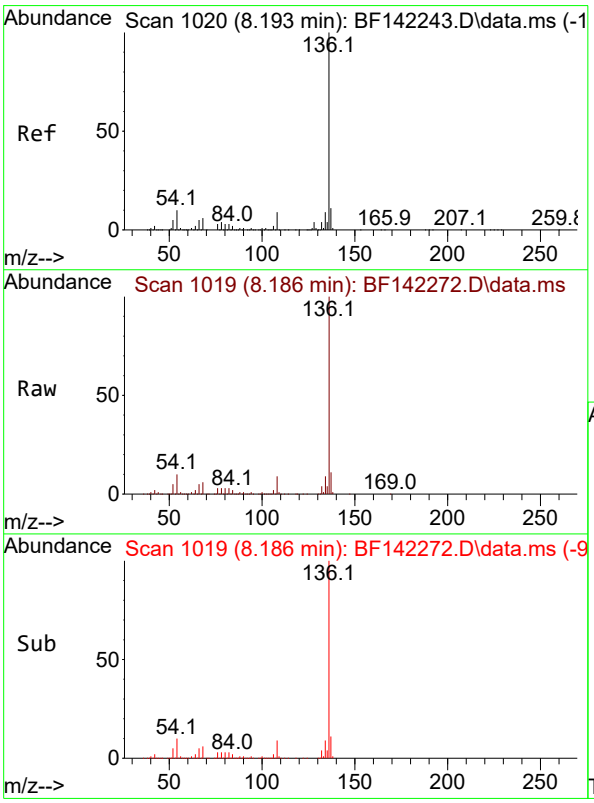
#7
Phenol-d6
Concen: 75.318 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion: 99 Resp: 1088394

Ion	Ratio	Lower	Upper
99	100		
42	21.4	16.3	24.5
71	32.2	25.0	37.4

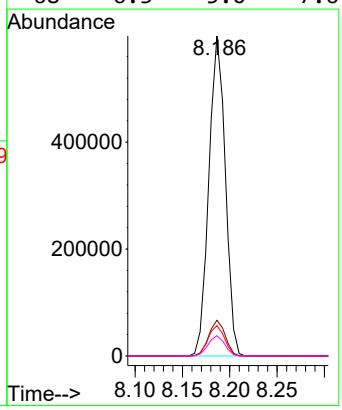


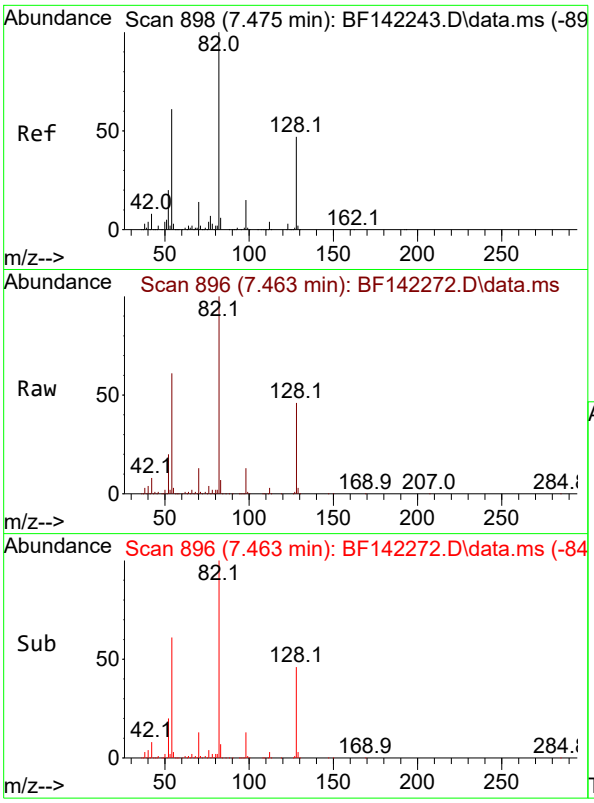


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.007 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:136 Resp: 720969

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	9.5	7.7	11.5
68	6.3	5.0	7.6



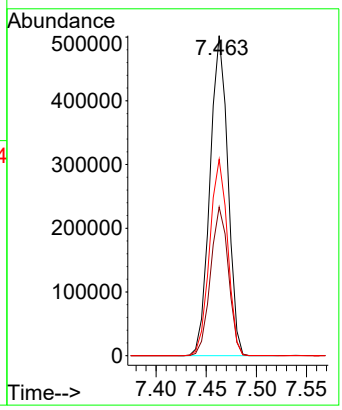


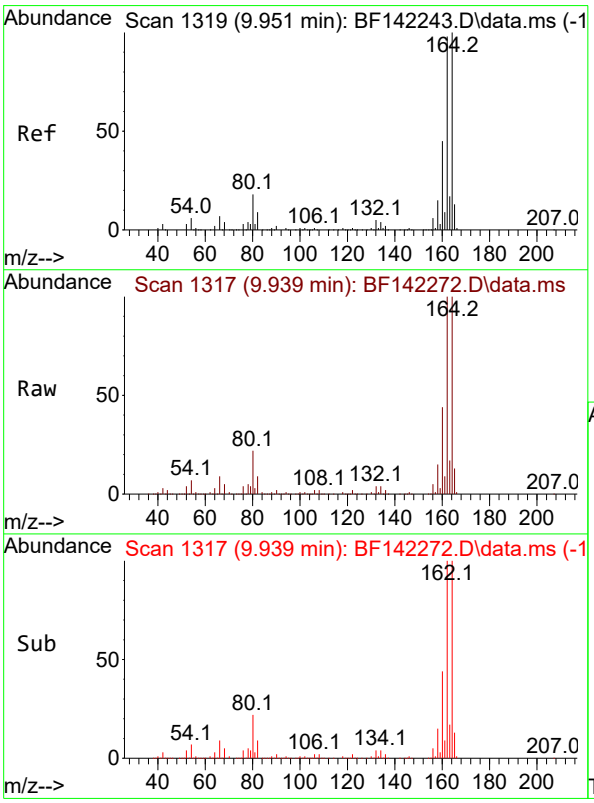
#23
Nitrobenzene-d5
Concen: 56.878 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion: 82 Resp: 624188

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.6
54	61.4	48.0	72.0

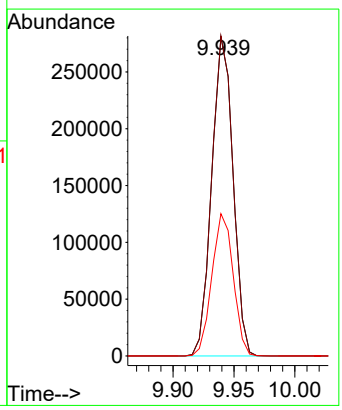


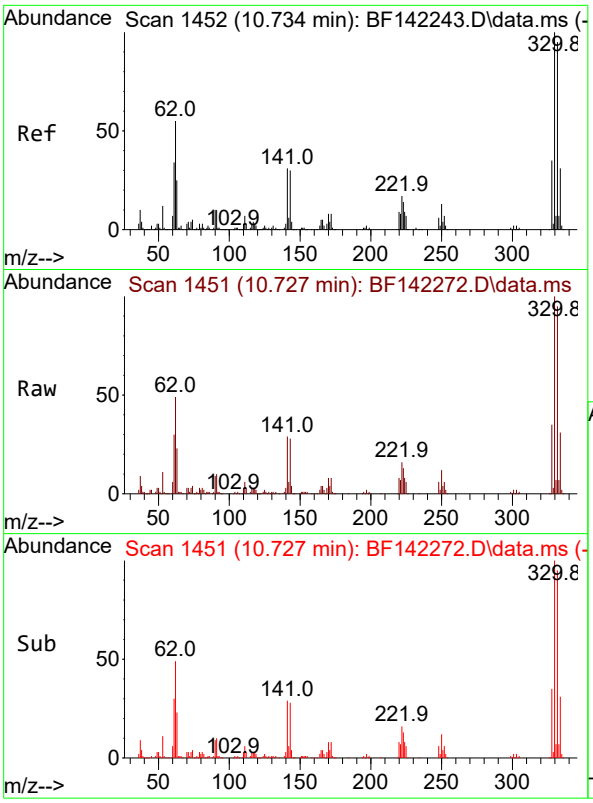


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:164 Resp: 342220

Ion	Ratio	Lower	Upper
164	100		
162	100.3	78.6	117.8
160	44.6	35.7	53.5



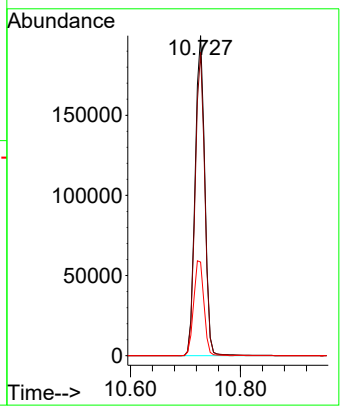


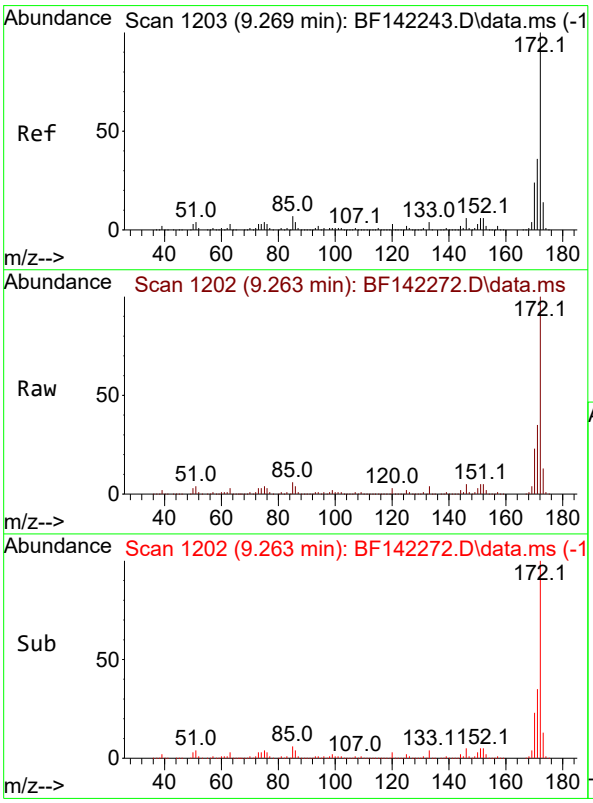
#42
2,4,6-Tribromophenol
Concen: 78.152 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:330 Resp: 243819

Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.5	114.7
141	31.5	24.3	36.5

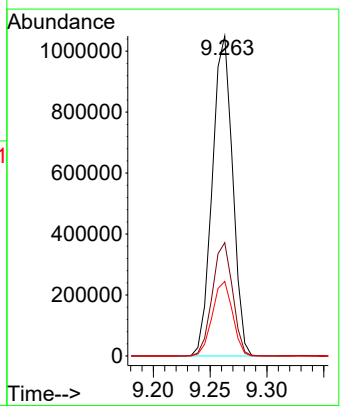


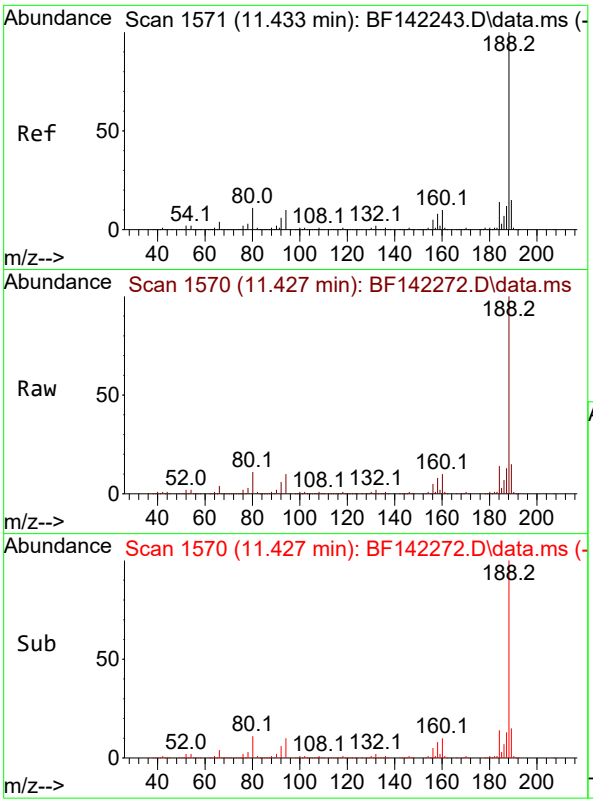


#45
2-Fluorobiphenyl
Concen: 53.848 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:172 Resp: 1306976

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.4
170	23.3	19.4	29.0



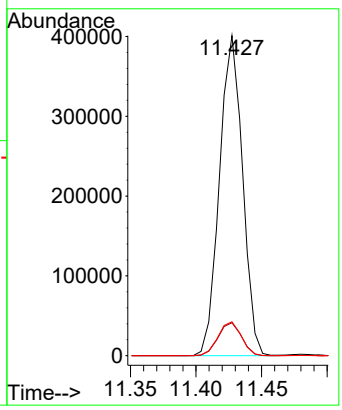


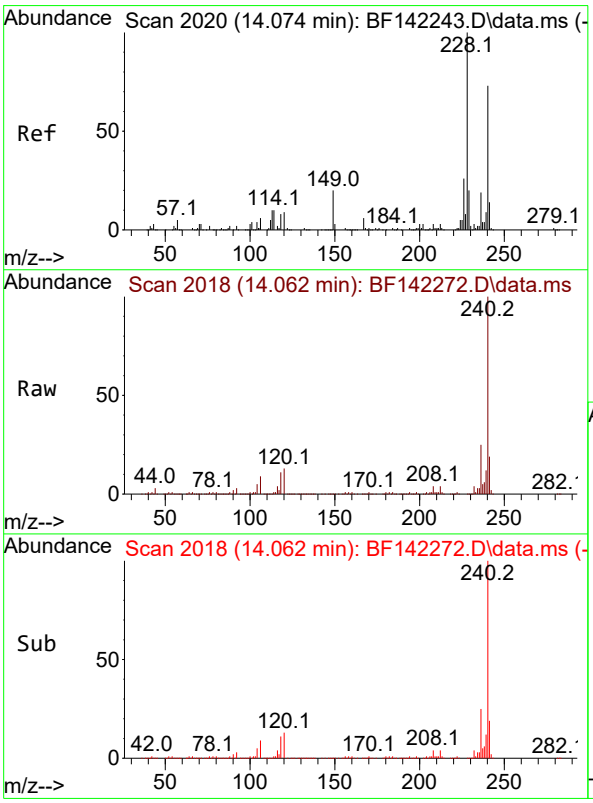
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:188 Resp: 490996

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.2	12.2
80	10.6	8.6	12.8

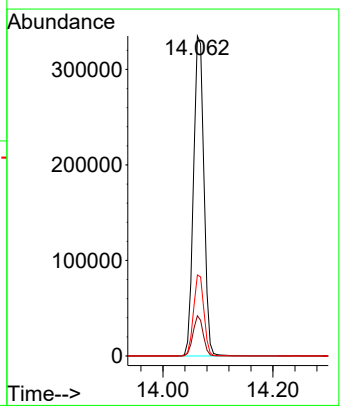


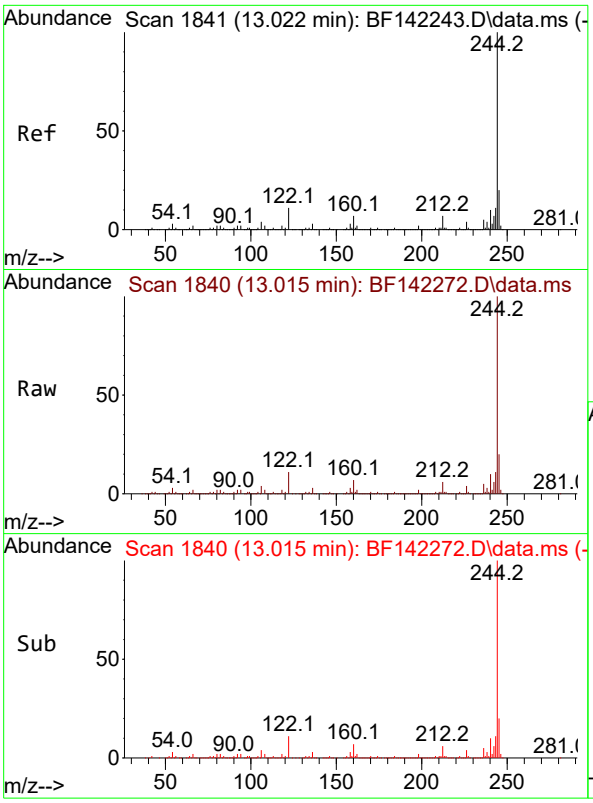


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.062 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:240 Resp: 440399

Ion	Ratio	Lower	Upper
240	100		
120	12.6	10.1	15.1
236	25.3	20.5	30.7



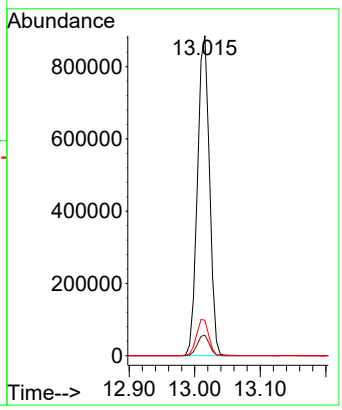


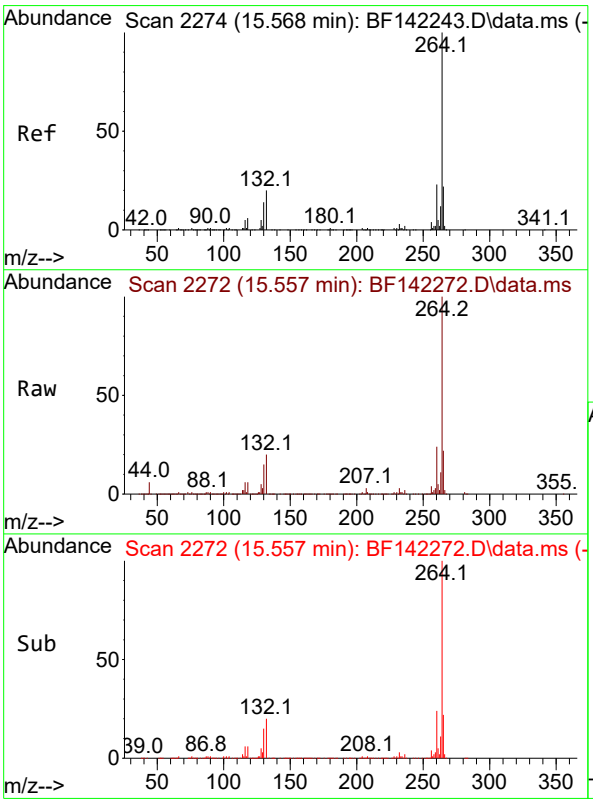
#79
Terphenyl-d14
Concen: 37.382 ng
RT: 13.015 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:244 Resp: 1131952

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	11.1	9.1	13.7

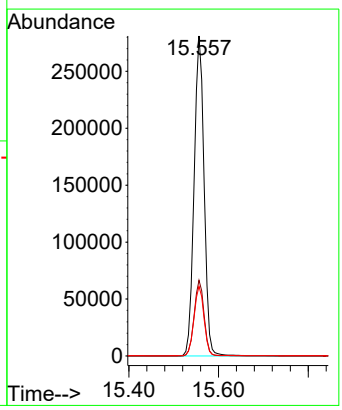




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:264 Resp: 434416

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.4	27.6
265	21.7	17.3	25.9



Sample Results: **BF142272.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142272.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.293	10	17	24	rBV2	44972	80056	2.13%	0.288%
2	5.122	489	498	507	rVB	263609	386837	10.32%	1.393%
3	5.516	558	565	570	rBV	2400441	3123321	83.29%	11.246%
4	6.516	729	735	741	rBV	2323821	3199775	85.33%	11.521%
5	6.904	796	801	806	rVB	913621	1137200	30.33%	4.095%
6	7.463	890	896	901	rBV	1579476	1979489	52.79%	7.127%
7	7.716	935	939	944	rBV	65469	76034	2.03%	0.274%
8	8.186	1014	1019	1024	rBV	1212533	1467331	39.13%	5.283%
9	9.263	1196	1202	1207	rBV	2990144	3749811	100.00%	13.502%
10	9.939	1312	1317	1322	rBV	1200507	1459537	38.92%	5.255%
11	10.651	1433	1438	1443	rBV	299506	359688	9.59%	1.295%
12	10.727	1445	1451	1461	rBV	1464188	1880841	50.16%	6.772%
13	11.427	1565	1570	1575	rBV	990758	1217066	32.46%	4.382%
14	11.951	1653	1659	1675	rBV2	161001	285002	7.60%	1.026%
15	12.733	1788	1792	1804	rBV3	33324	55424	1.48%	0.200%
16	13.015	1834	1840	1845	rBV	2352375	3042654	81.14%	10.956%
17	13.586	1934	1937	1946	rVB	27813	40223	1.07%	0.145%
18	13.910	1987	1992	1999	rBV	380813	564954	15.07%	2.034%
19	14.062	2013	2018	2026	rBV	917830	1210102	32.27%	4.357%
20	14.233	2043	2047	2054	rVB	55090	75075	2.00%	0.270%
21	14.545	2095	2100	2107	rBV	325517	511110	13.63%	1.840%
22	14.857	2149	2153	2163	rBV3	44879	83356	2.22%	0.300%
23	15.209	2208	2213	2214	rBV	58686	78458	2.09%	0.282%
24	15.557	2266	2272	2295	rBV	759580	1328743	35.43%	4.784%
25	16.104	2361	2365	2373	rVB3	38630	72767	1.94%	0.262%
26	17.268	2556	2563	2572	rBV4	97242	228053	6.08%	0.821%
27	17.680	2628	2633	2640	rBV5	32860	79884	2.13%	0.288%

Sum of corrected areas: 27772791

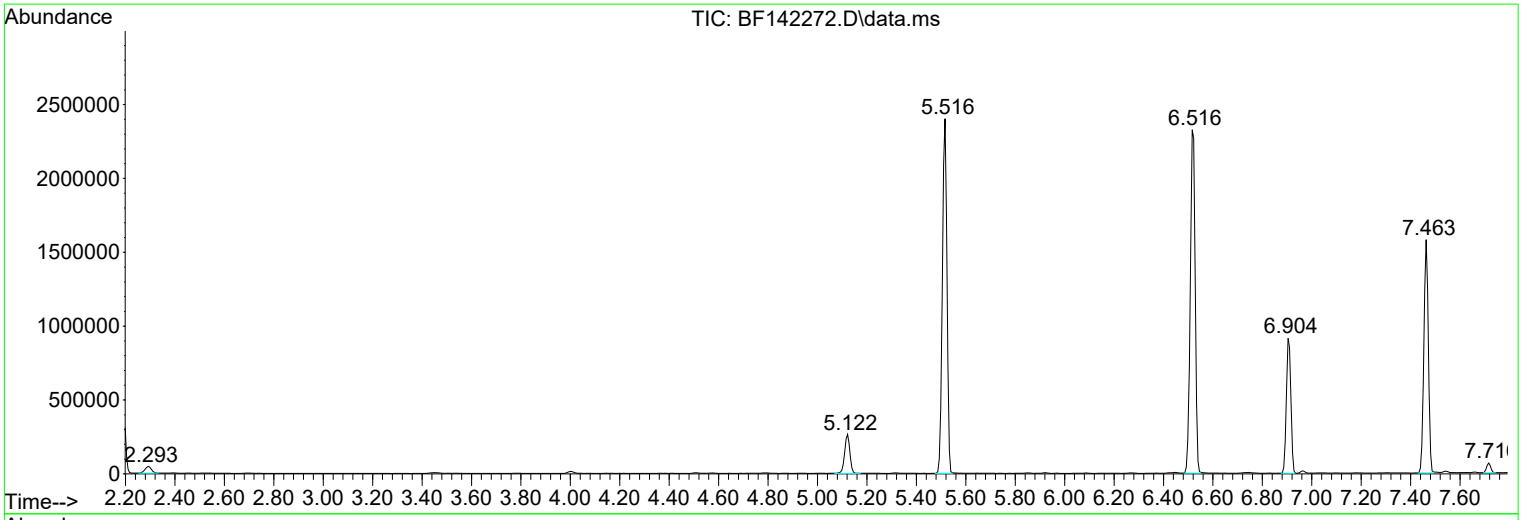
Sample Results: **BF142272.D**

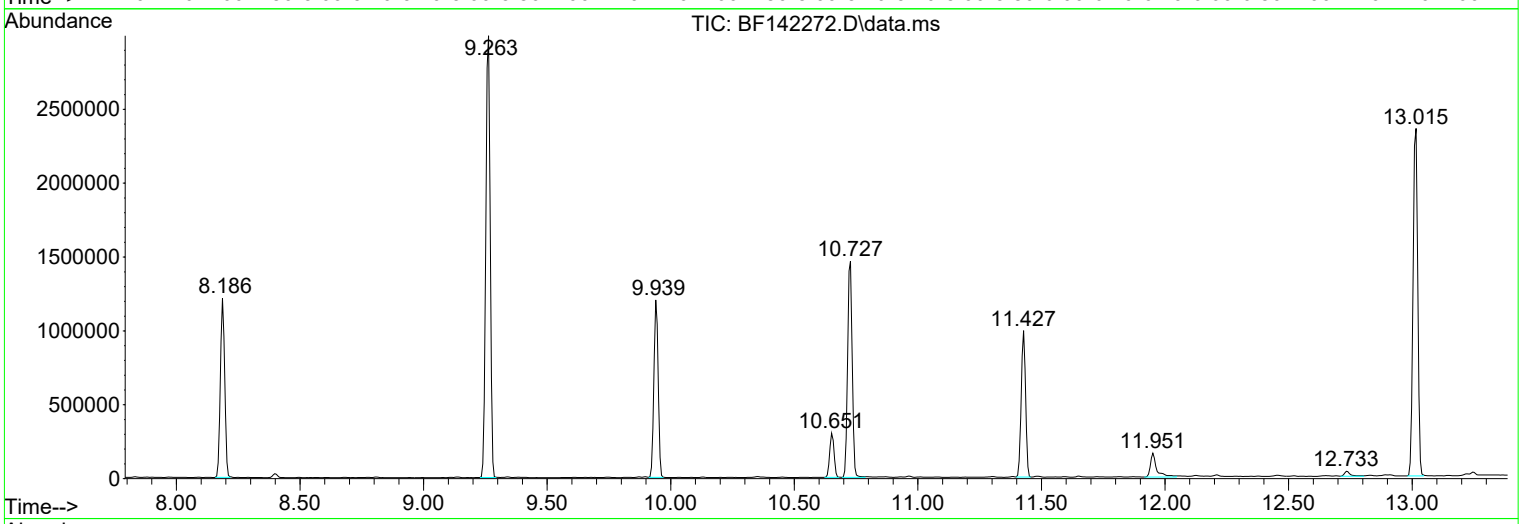
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Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

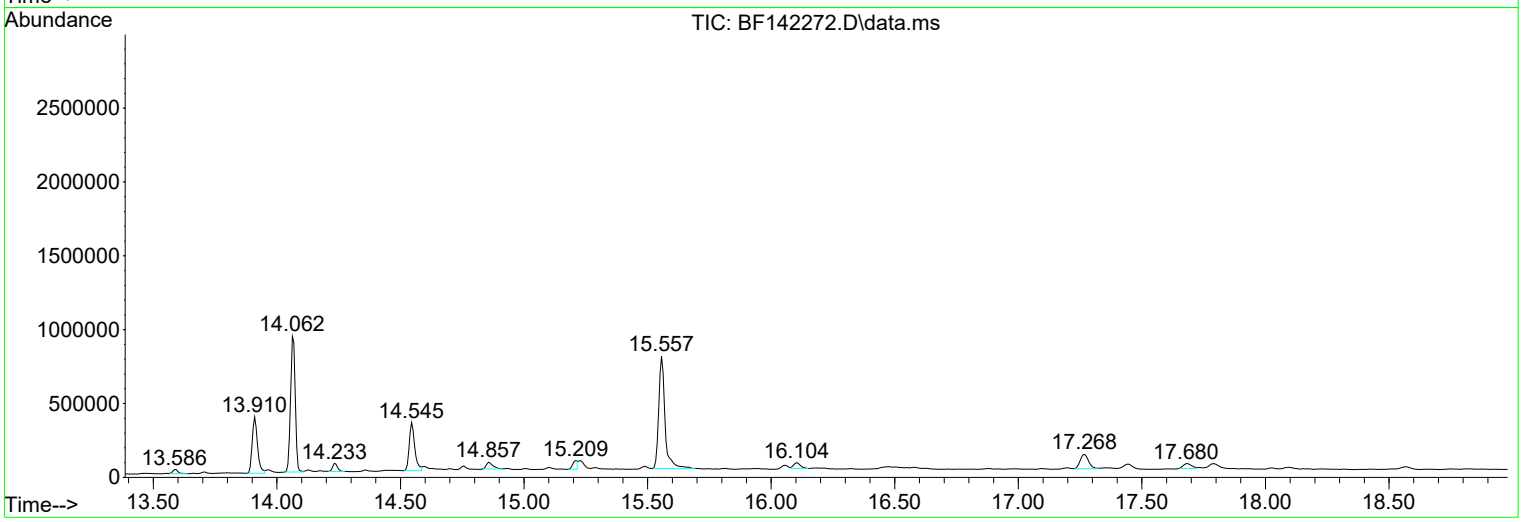
Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

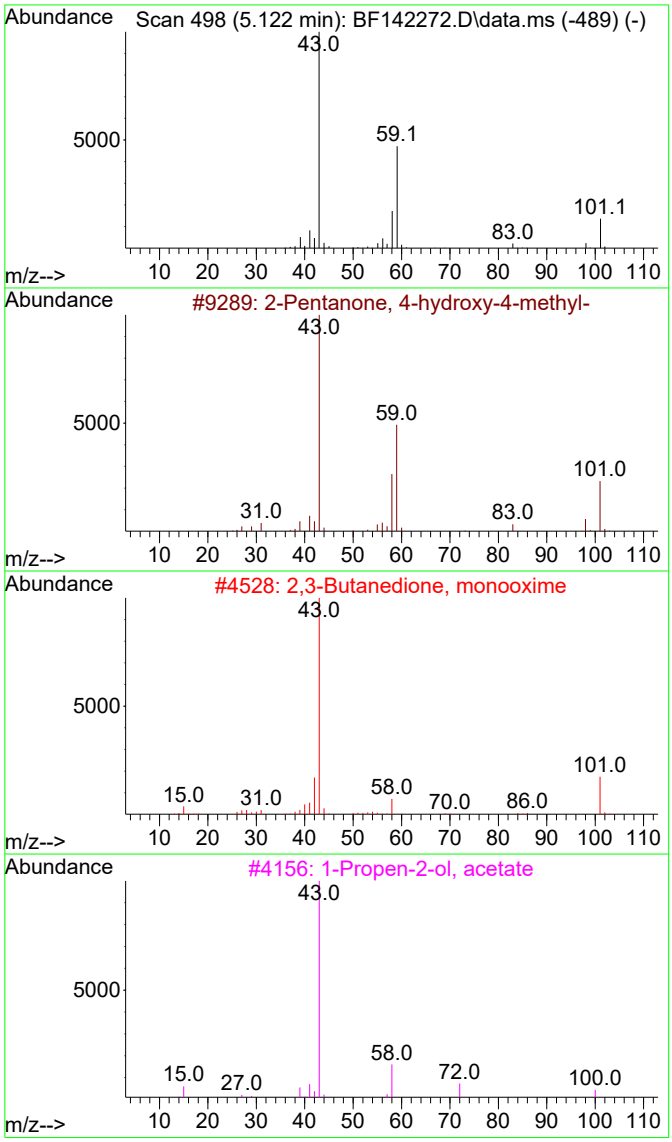
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

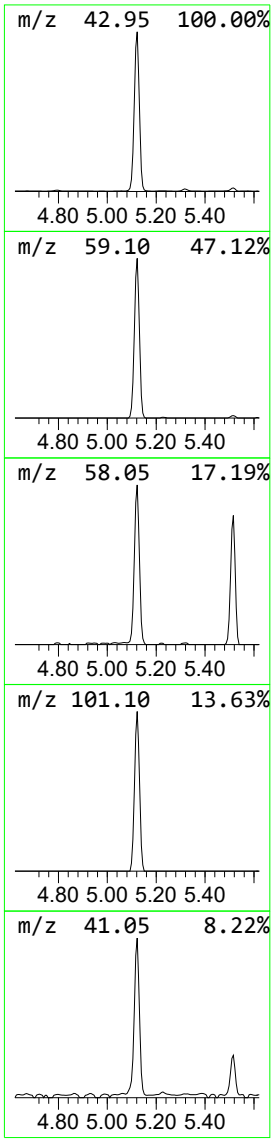
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	6.80 ng	386837	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Allyl acetate	100	C5H8O2	000591-87-7	9
5	Acetone	58	C3H6O	000067-64-1	7





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

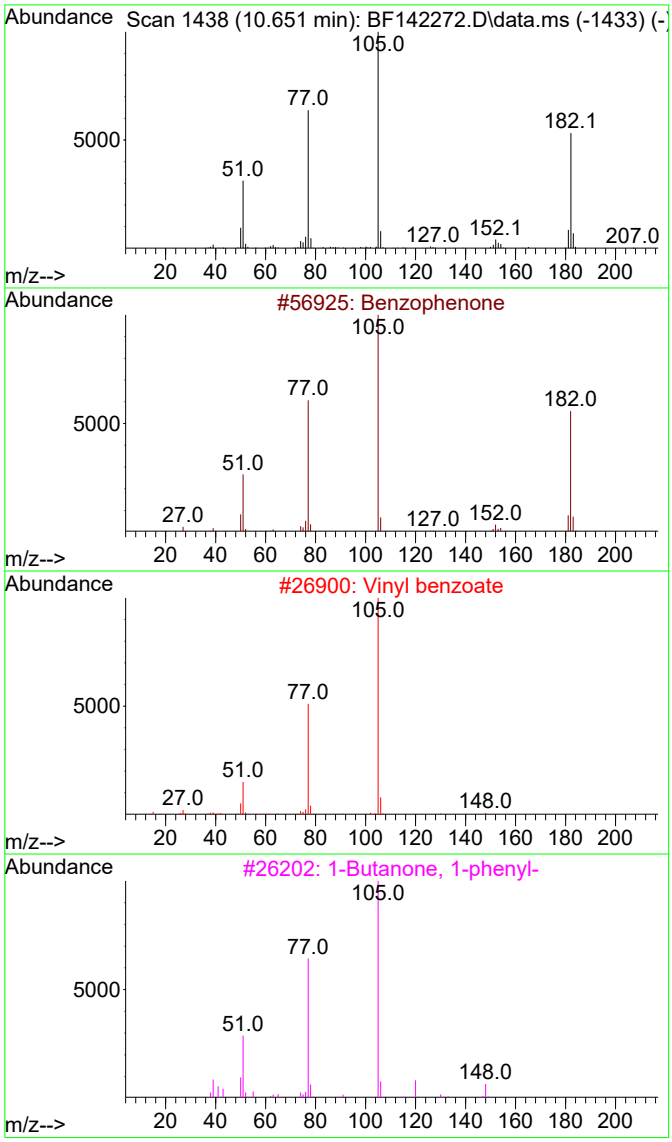
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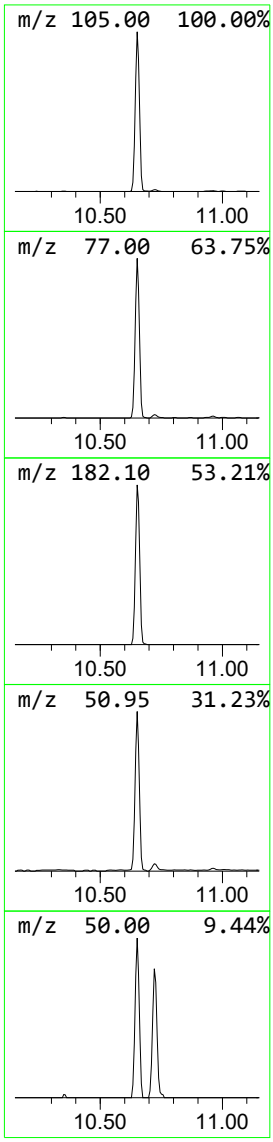
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Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.93 ng	359688	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Vinyl benzoate	148	C9H8O2	000769-78-8	50
3	1-Butanone, 1-phenyl-	148	C10H12O	000495-40-9	50
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	50
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

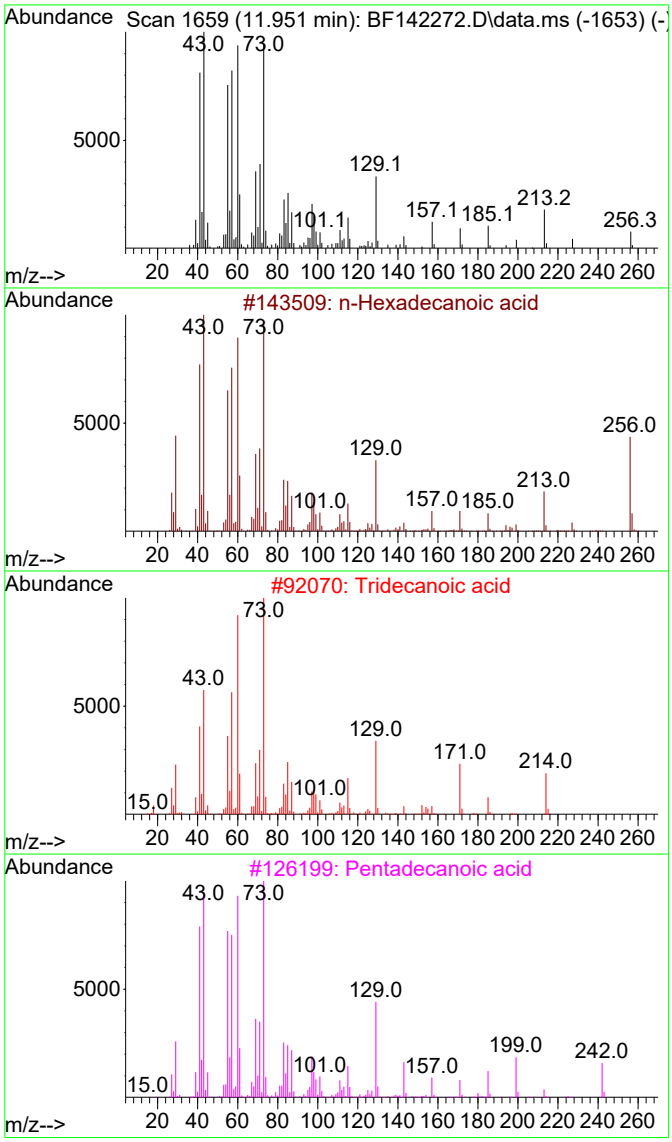
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

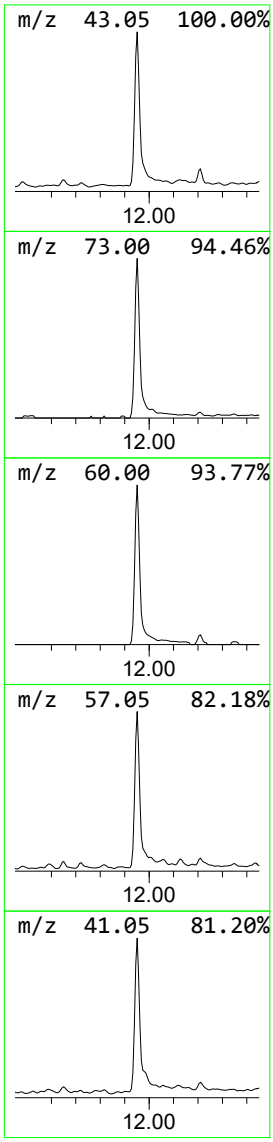
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	4.68 ng	285002	Phenanthrene-d10	11.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

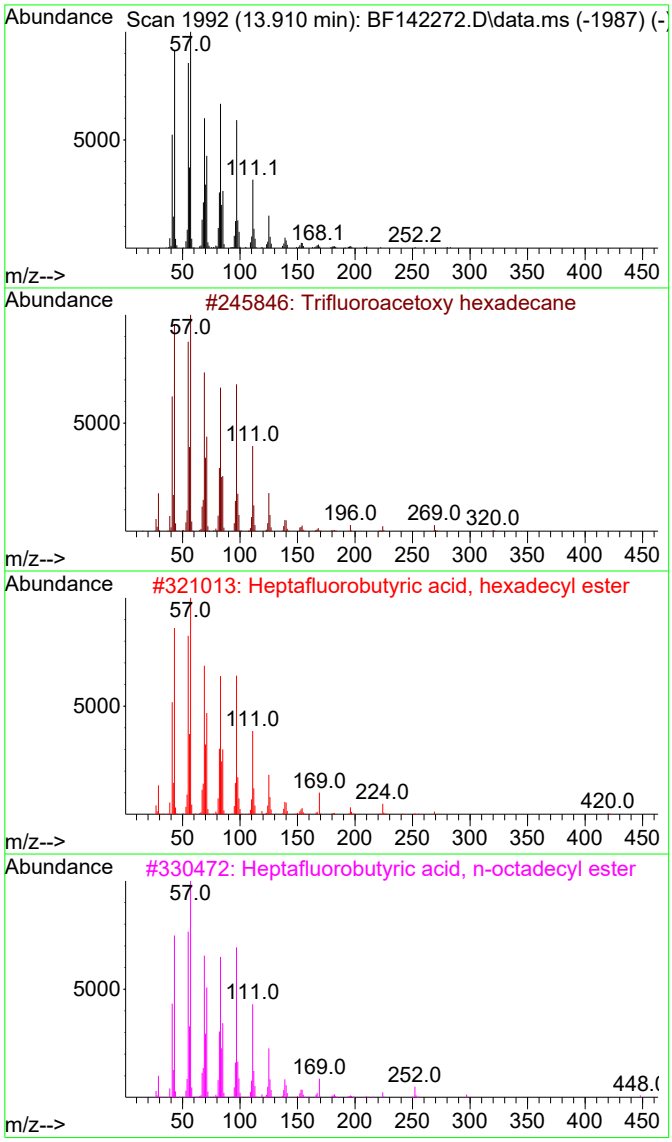
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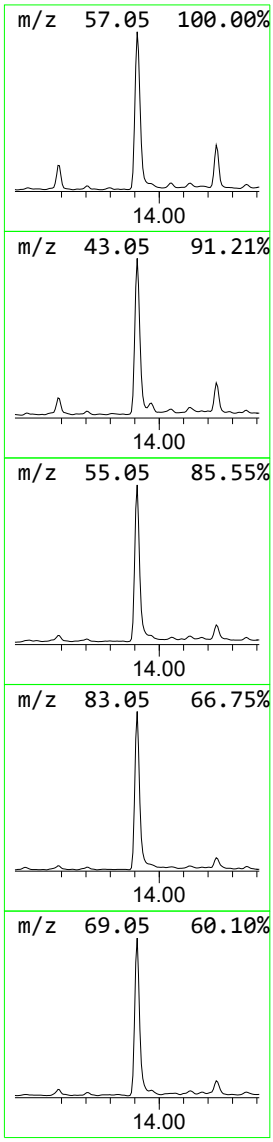
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	9.34 ng	564954	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
2	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	94
3	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	94
4	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
5	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

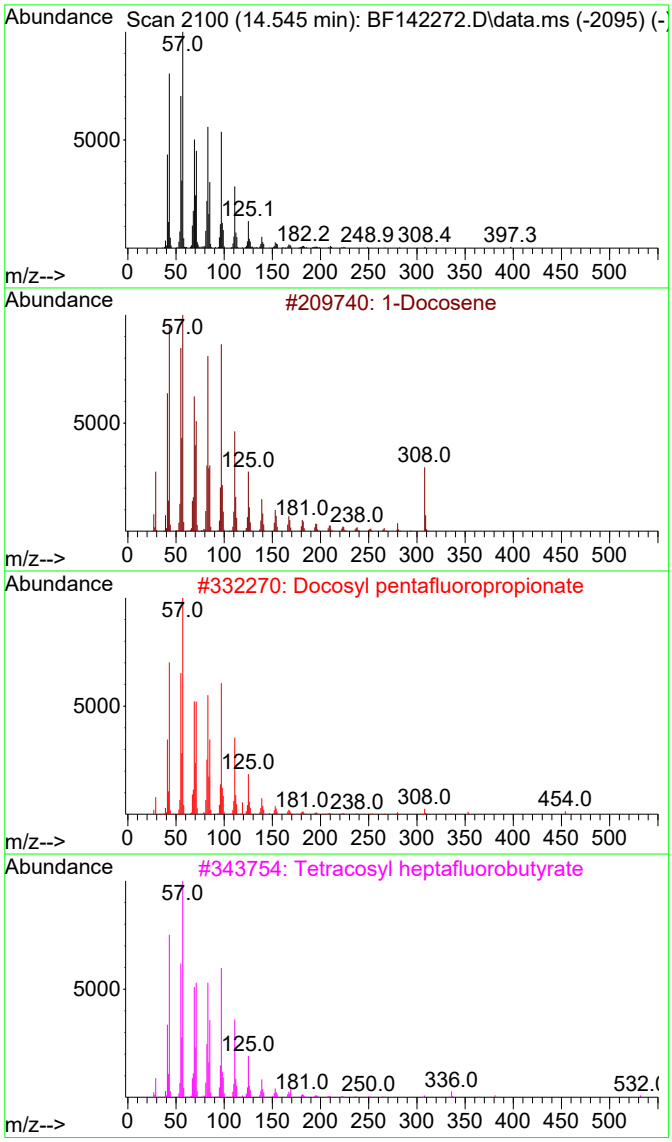
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TIC Integration Parameters: LSCINT.P

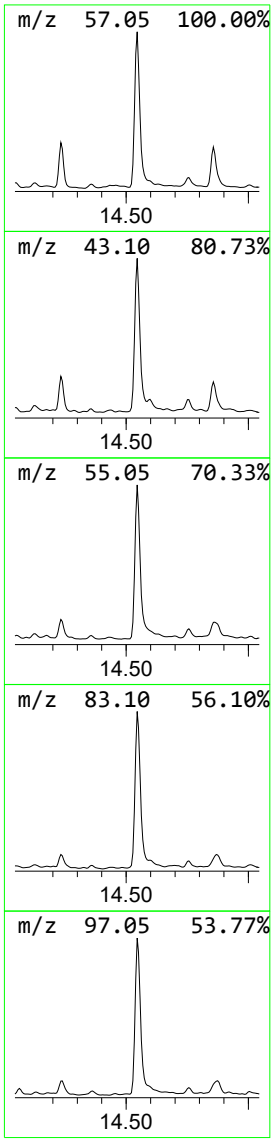
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Peak Number 5 1-Docosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.545	8.45 ng	511110	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	98
2	Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	94
3	Tetracosyl heptafluorobutyrate	550	C28H49F7O2	1000351-83-7	94
4	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

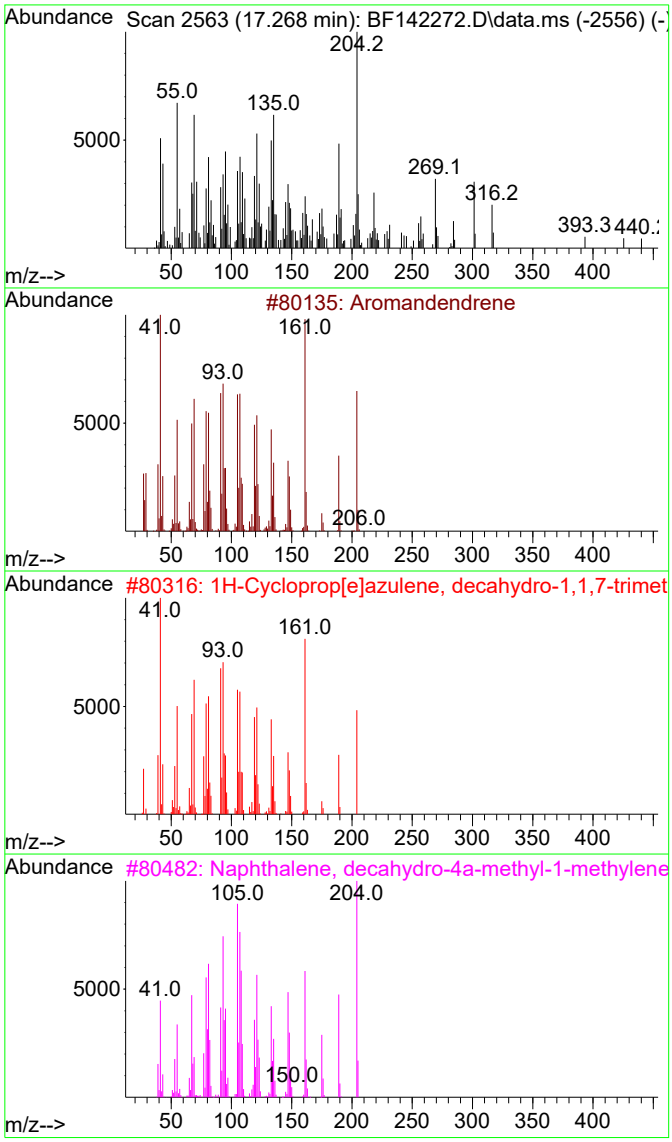
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TIC Integration Parameters: LSCINT.P

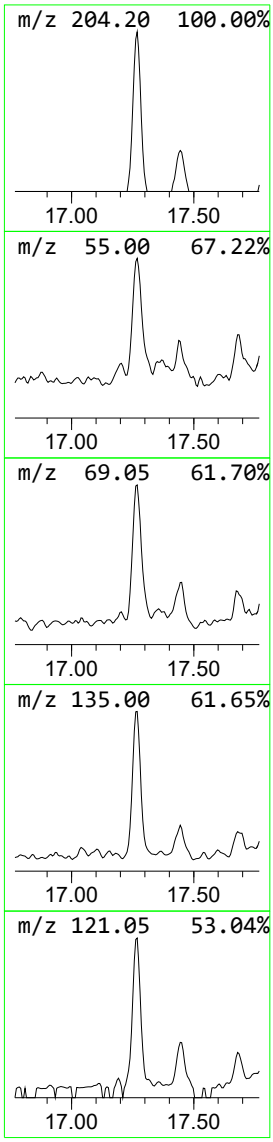
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Peak Number 6 Aromandendrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.268	3.43 ng	228053	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Aromandendrene	204	C15H24	000489-39-4	90
2	1H-Cycloprop[e]azulene, decahydr...	204	C15H24	072747-25-2	78
3	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	60
4	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	58
5	1H-3a,7-Methanoazulene, octahydr...	204	C15H24	000508-55-4	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.122	6.8	ng	386837	1	6.904	1137200	20.0
Benzophenone	10.651	4.9	ng	359688	3	9.939	1459540	20.0
n-Hexadecanoic ...	11.951	4.7	ng	285002	4	11.427	1217070	20.0
Trifluoroacetox...	13.910	9.3	ng	564954	5	14.063	1210100	20.0
1-Docosene	14.545	8.4	ng	511110	5	14.063	1210100	20.0
Aromandendrene	17.268	3.4	ng	228053	6	15.557	1328740	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Time: May 02 01:07:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

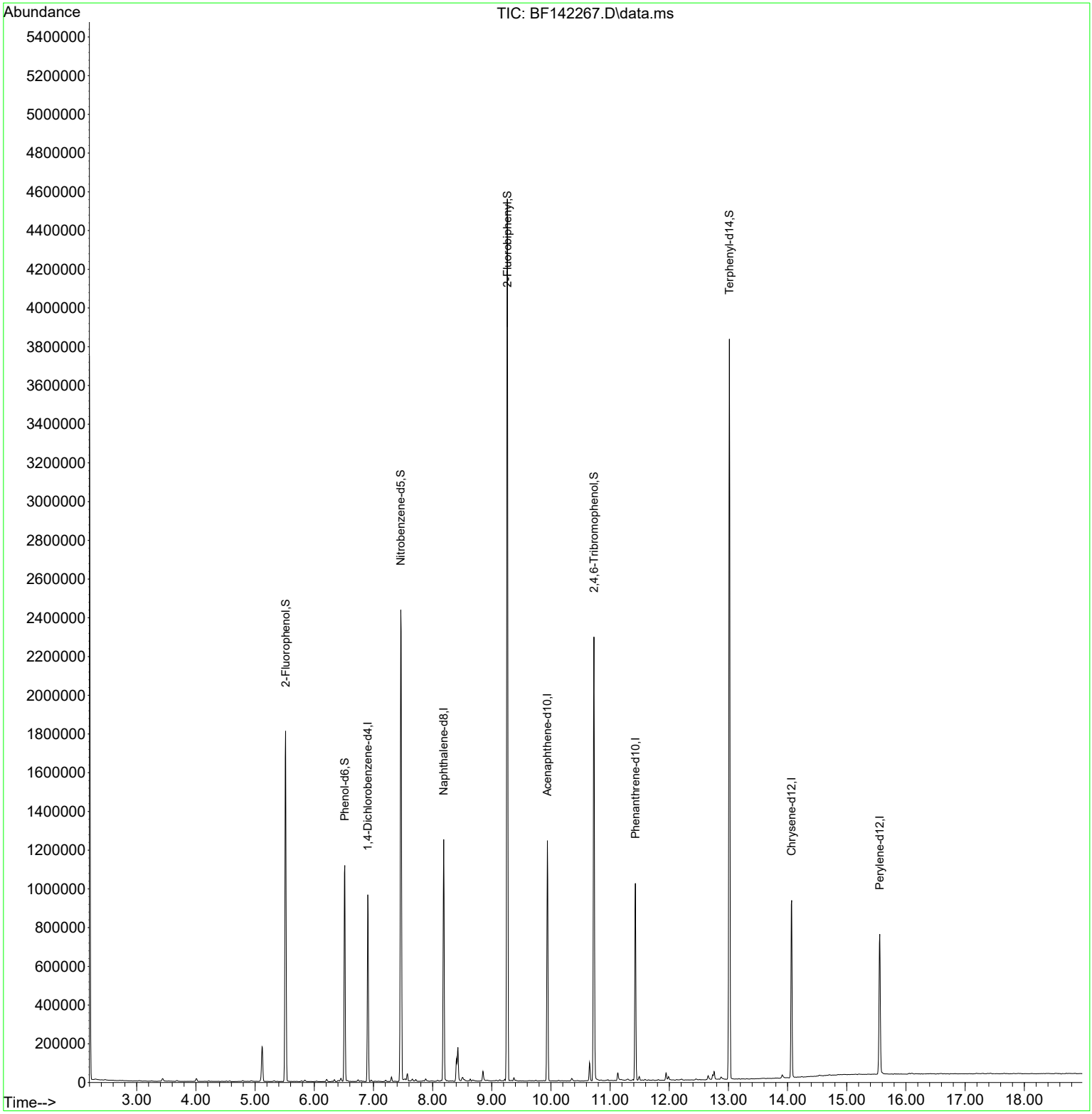
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	201475	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	750141	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	355308	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	506536	20.000	ng	0.00
76) Chrysene-d12	14.069	240	447799	20.000	ng	0.00
86) Perylene-d12	15.557	264	425092	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	671365	53.218	ng	0.00
7) Phenol-d6	6.516	99	488672	32.078	ng	-0.01
23) Nitrobenzene-d5	7.463	82	1036374	90.766	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	387463	119.620	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2015860	79.995	ng	0.00
79) Terphenyl-d14	13.016	244	1820619	59.132	ng	0.00
Target Compounds						Qvalue

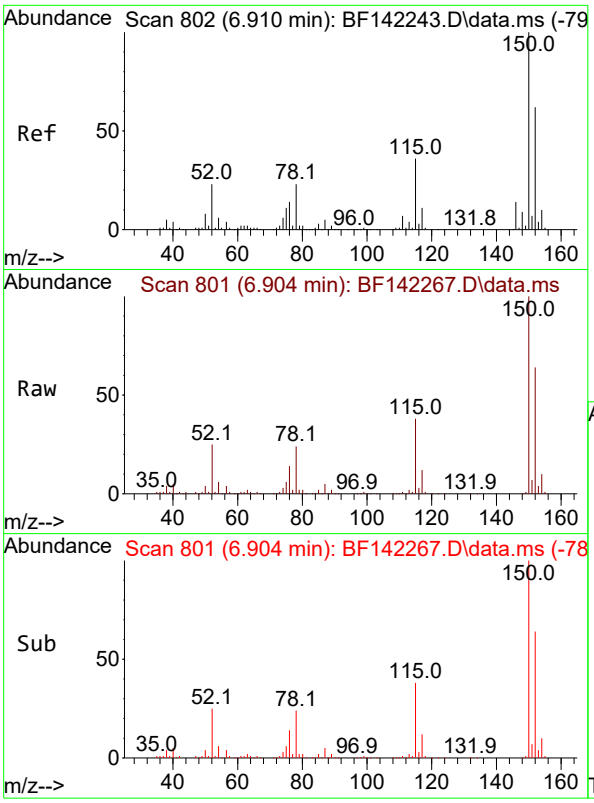
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Time: May 02 01:07:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



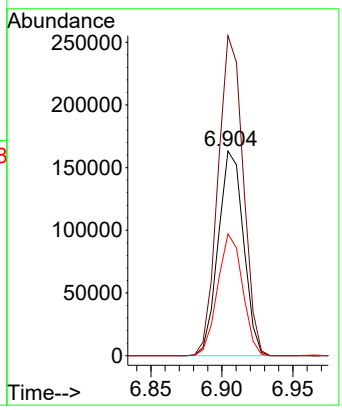


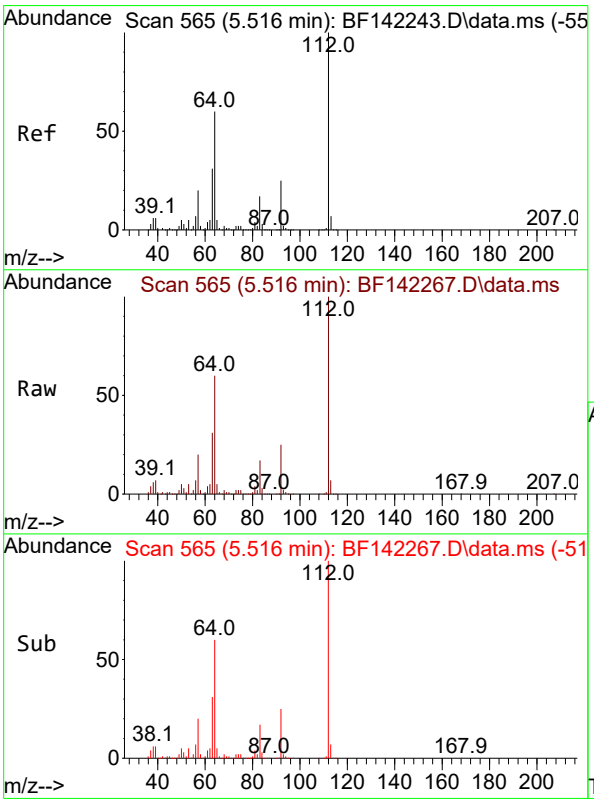
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:152 Resp: 201475

Ion	Ratio	Lower	Upper
152	100		
150	156.4	130.2	195.2
115	59.5	47.0	70.4

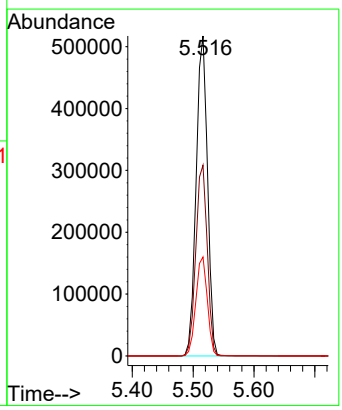


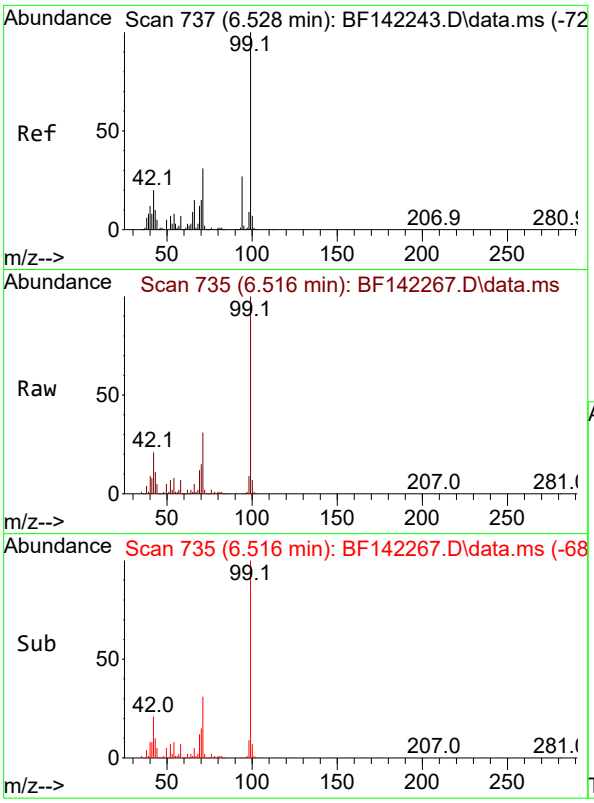


#5
2-Fluorophenol
Concen: 53.218 ng
RT: 5.516 min Scan# 565
Delta R.T. -0.000 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:112 Resp: 671365

Ion	Ratio	Lower	Upper
112	100		
64	59.6	48.4	72.6
63	31.0	24.8	37.2



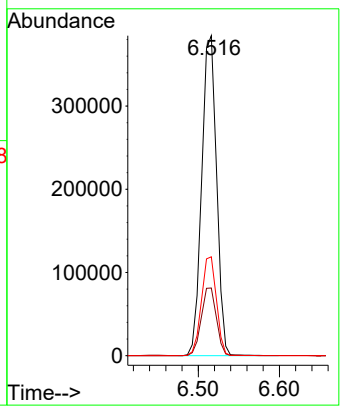


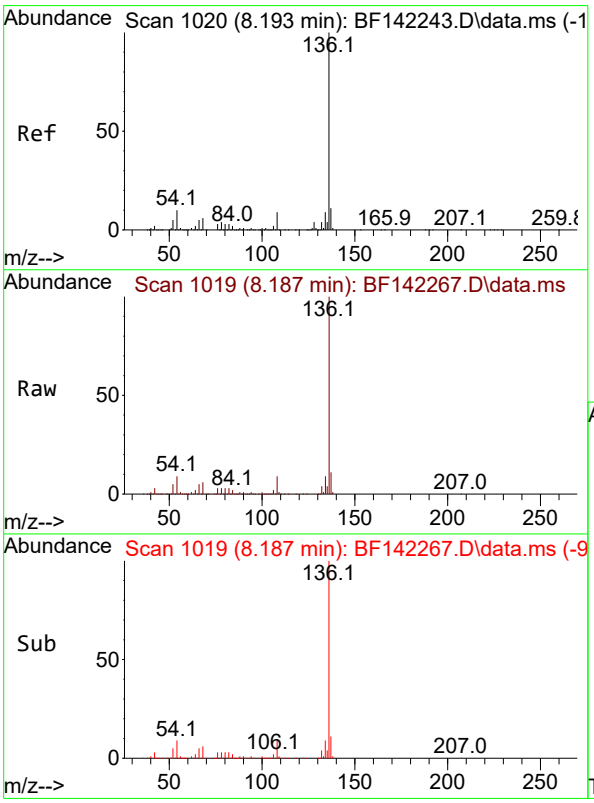
#7
Phenol-d6
Concen: 32.078 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion: 99 Resp: 488672

Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.3	24.5
71	30.9	25.0	37.4

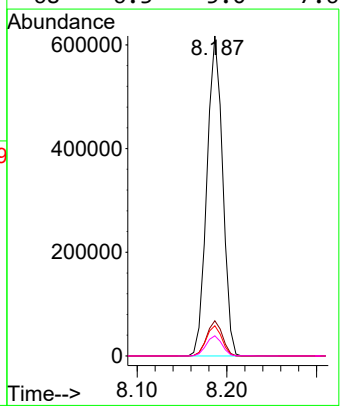


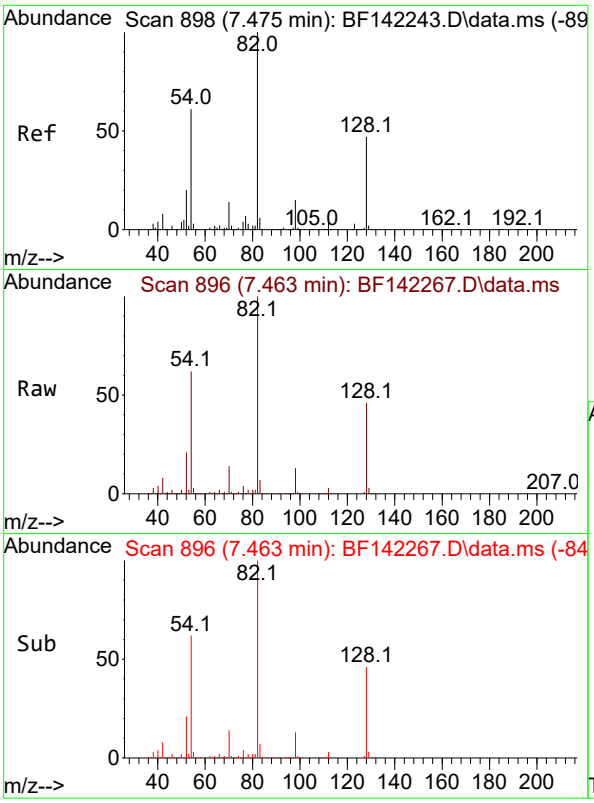


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:136 Resp: 750141

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.4	7.7	11.5
68	6.3	5.0	7.6



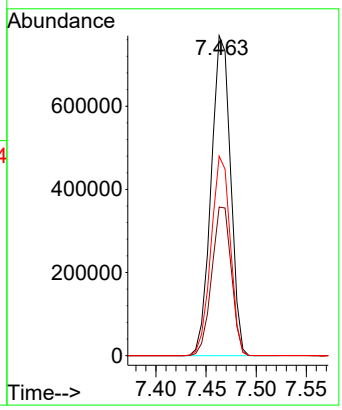


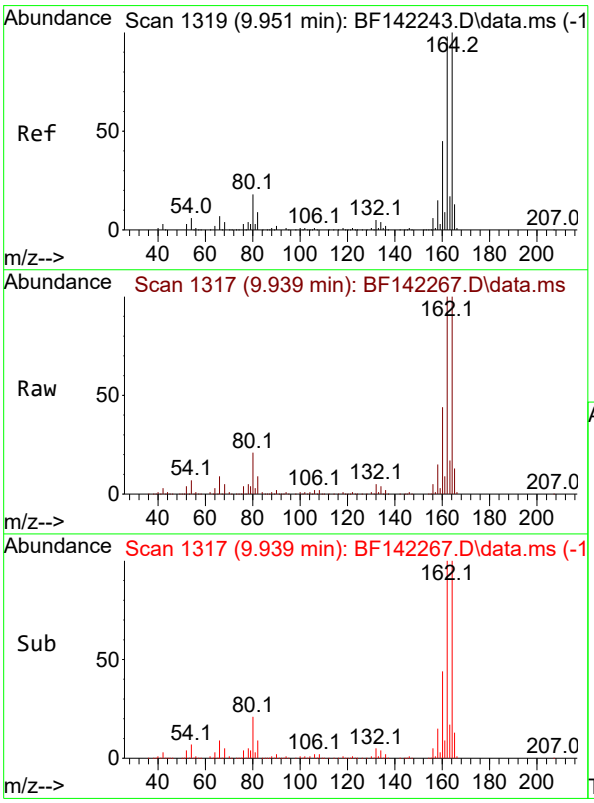
#23
Nitrobenzene-d5
Concen: 90.766 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion: 82 Resp: 1036374

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.6
54	62.4	48.0	72.0

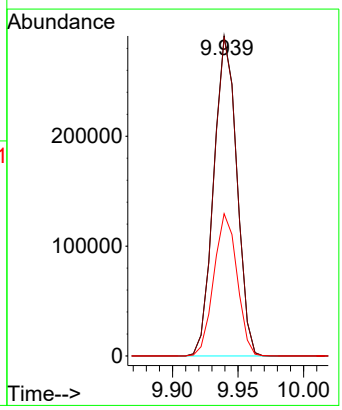


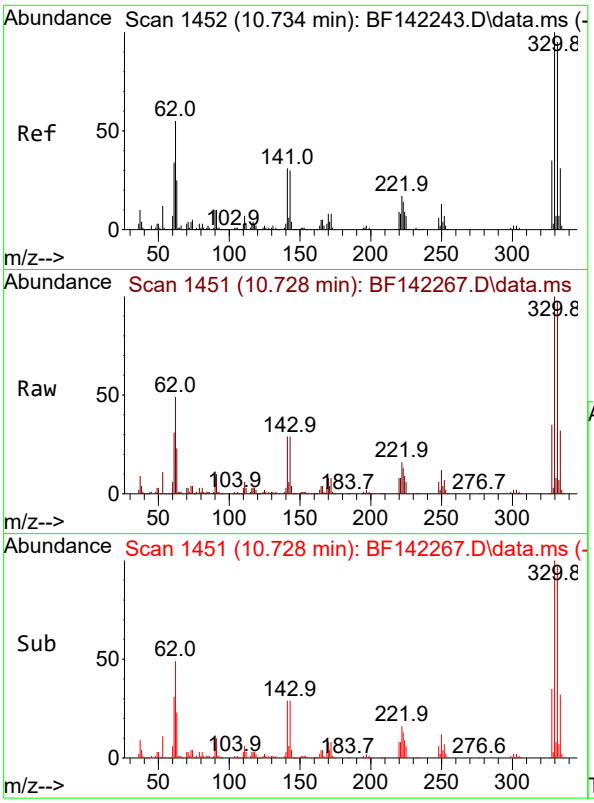


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:164 Resp: 355308

Ion	Ratio	Lower	Upper
164	100		
162	99.5	78.6	117.8
160	44.5	35.7	53.5



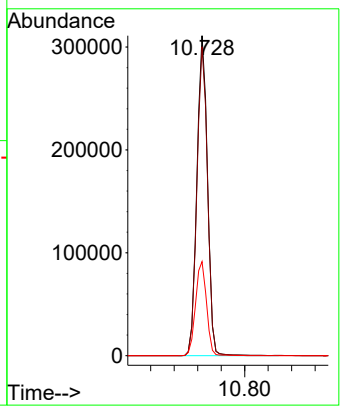


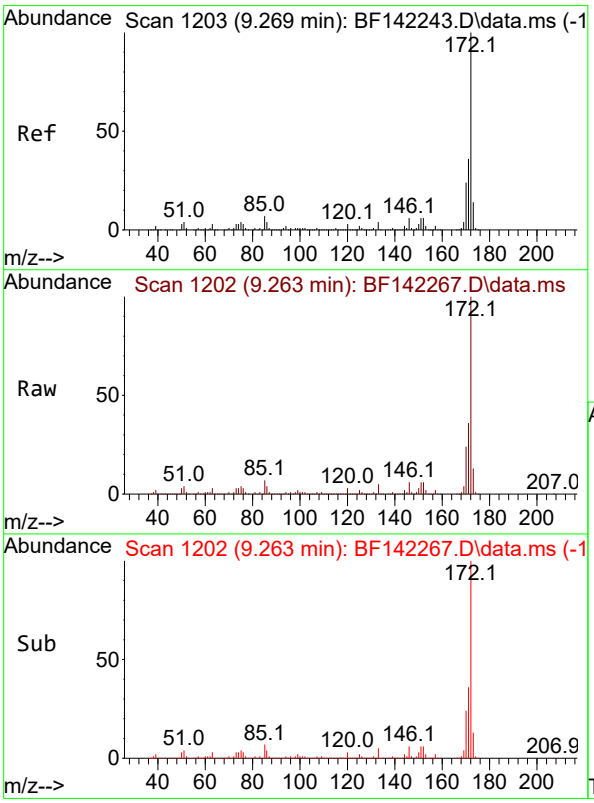
#42
2,4,6-Tribromophenol
Concen: 119.620 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:330 Resp: 387463

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.5	114.7
141	30.6	24.3	36.5

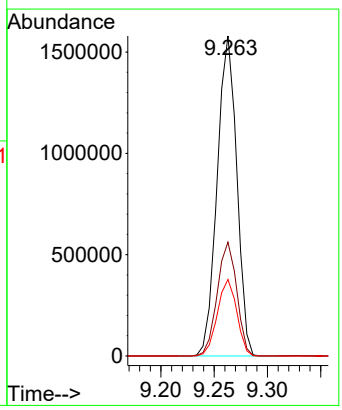


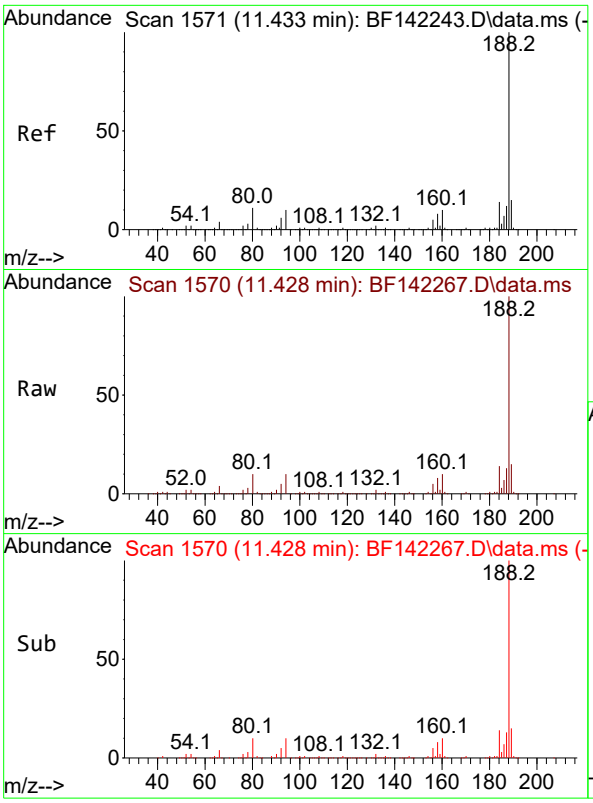


#45
2-Fluorobiphenyl
Concen: 79.995 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:172 Resp: 2015860

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	23.9	19.4	29.0



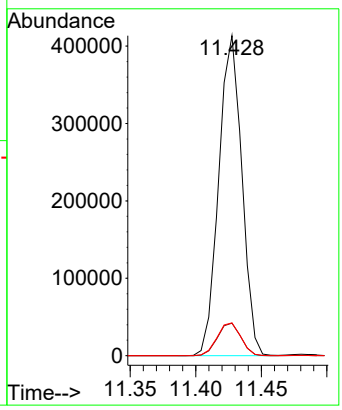


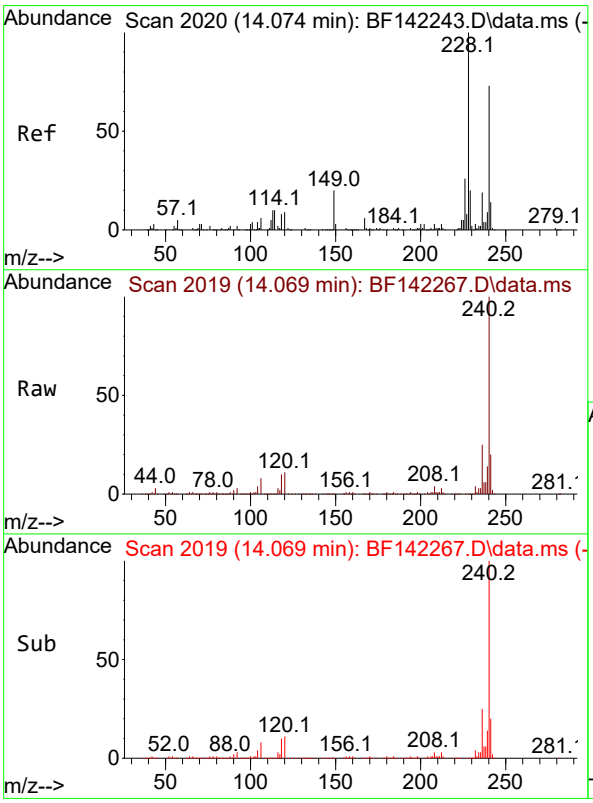
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:188 Resp: 506536

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.2	12.2
80	10.3	8.6	12.8

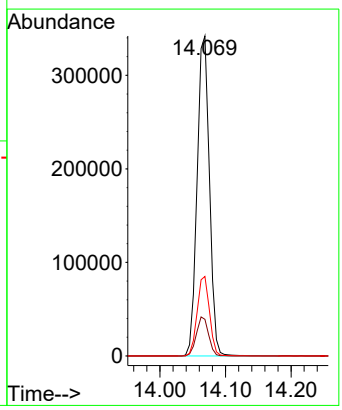


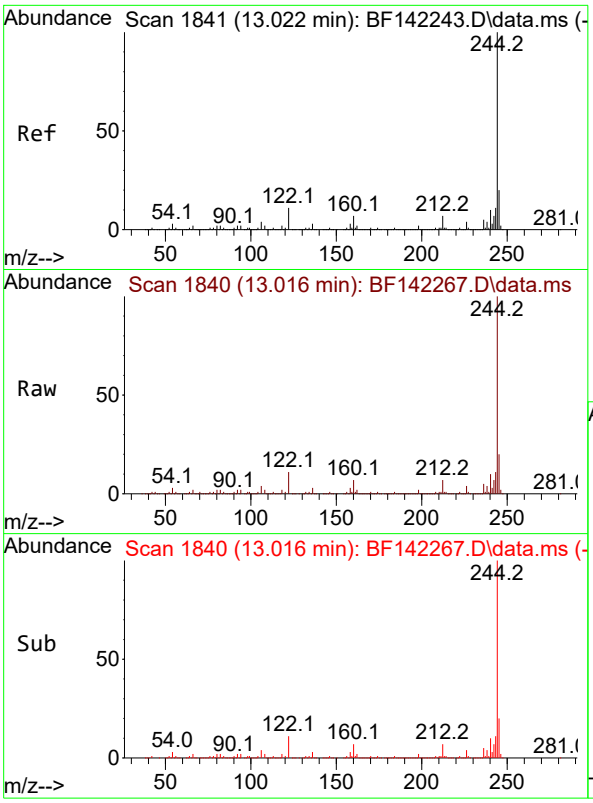


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:240 Resp: 447799

Ion	Ratio	Lower	Upper
240	100		
120	11.4	10.1	15.1
236	24.9	20.5	30.7



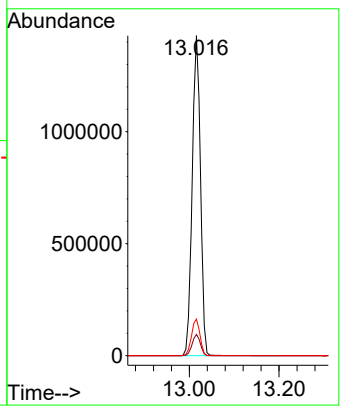


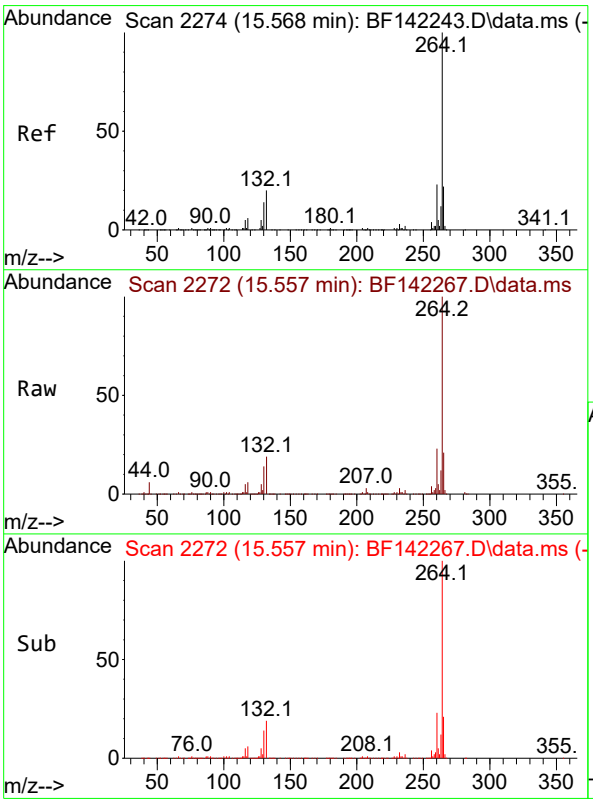
#79
Terphenyl-d14
Concen: 59.132 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:244 Resp: 1820619

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.5	9.1	13.7

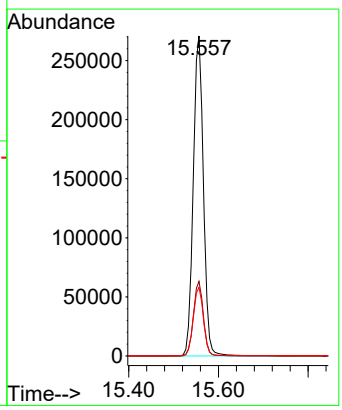




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:264 Resp: 425092

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.4	27.6
265	21.5	17.3	25.9



Sample Results: **BF142267.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142267.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	487	497	504	rVB	178676	268667	4.62%	0.914%
2	5.516	559	565	570	rBV	1809341	2362210	40.64%	8.034%
3	6.516	729	735	740	rBV	1114459	1428083	24.57%	4.857%
4	6.904	796	801	806	rBV	964357	1179363	20.29%	4.011%
5	7.463	890	896	901	rBV	2434953	3301525	56.80%	11.228%
6	8.187	1014	1019	1024	rBV	1245615	1516234	26.09%	5.157%
7	8.404	1051	1056	1057	rBV	116729	135922	2.34%	0.462%
8	8.428	1057	1060	1068	rVB	172837	220515	3.79%	0.750%
9	8.851	1127	1132	1141	rBV	49152	74664	1.28%	0.254%
10	9.263	1196	1202	1207	rVB	4554455	5812474	100.00%	19.768%
11	9.939	1312	1317	1322	rBV	1239659	1516361	26.09%	5.157%
12	10.651	1433	1438	1445	rVB	93247	116058	2.00%	0.395%
13	10.728	1445	1451	1456	rBV	2292327	2924219	50.31%	9.945%
14	11.128	1515	1519	1526	rBV	39600	62616	1.08%	0.213%
15	11.428	1565	1570	1575	rBV	1016846	1249501	21.50%	4.249%
16	13.016	1834	1840	1845	rBV	3822611	4879893	83.96%	16.596%
17	14.069	2013	2019	2027	rBV	915794	1217833	20.95%	4.142%
18	15.557	2265	2272	2286	rBV	722425	1137521	19.57%	3.869%

Sum of corrected areas: 29403659

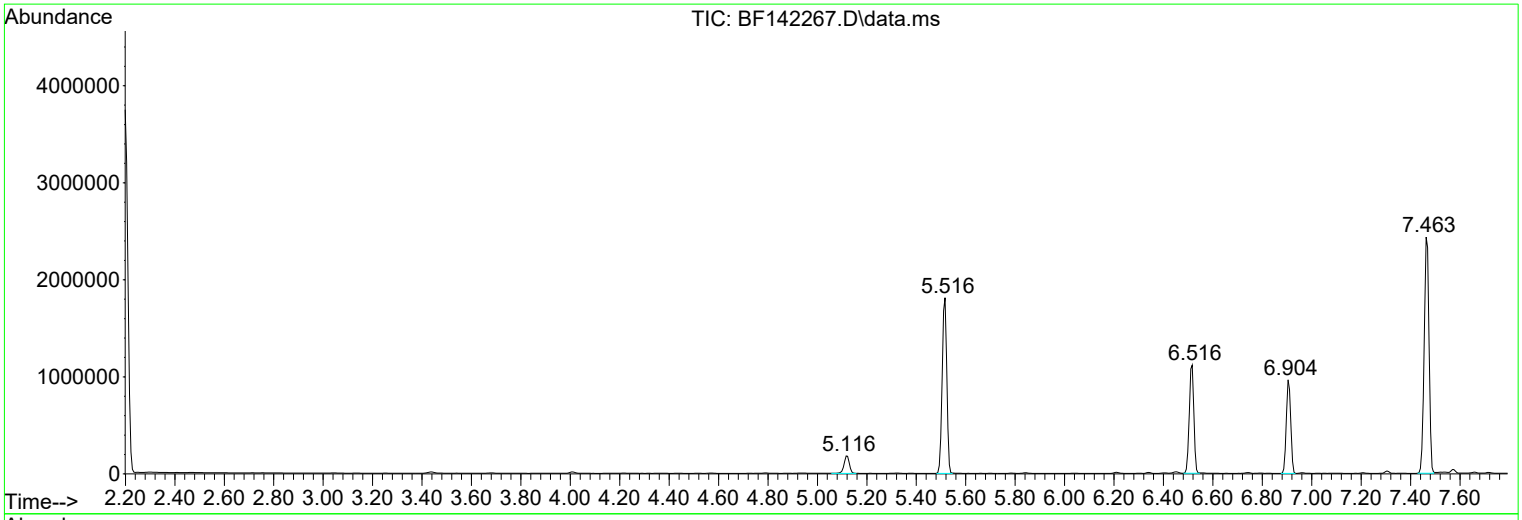
Sample Results: **BF142267.D**

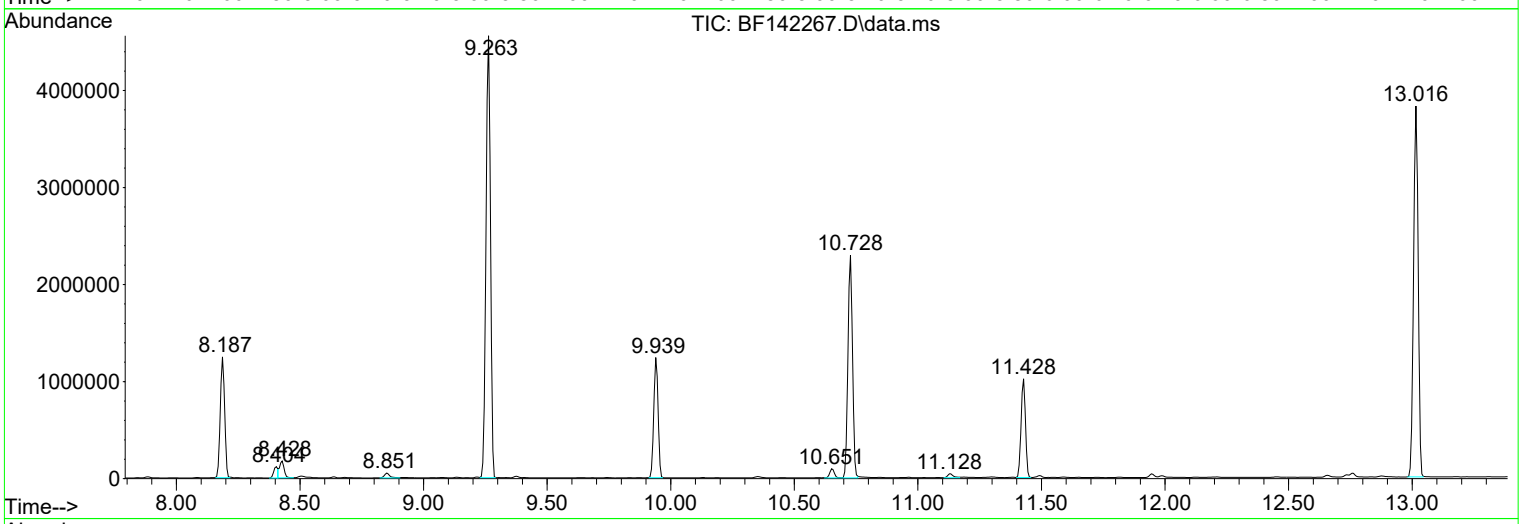
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

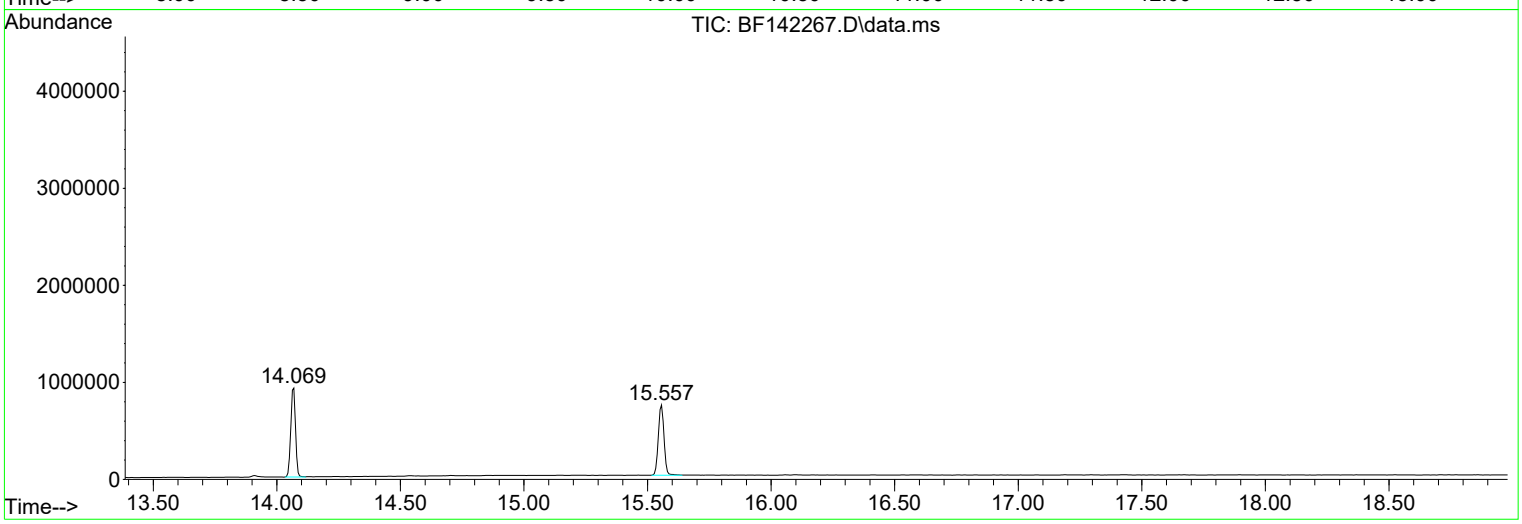
Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

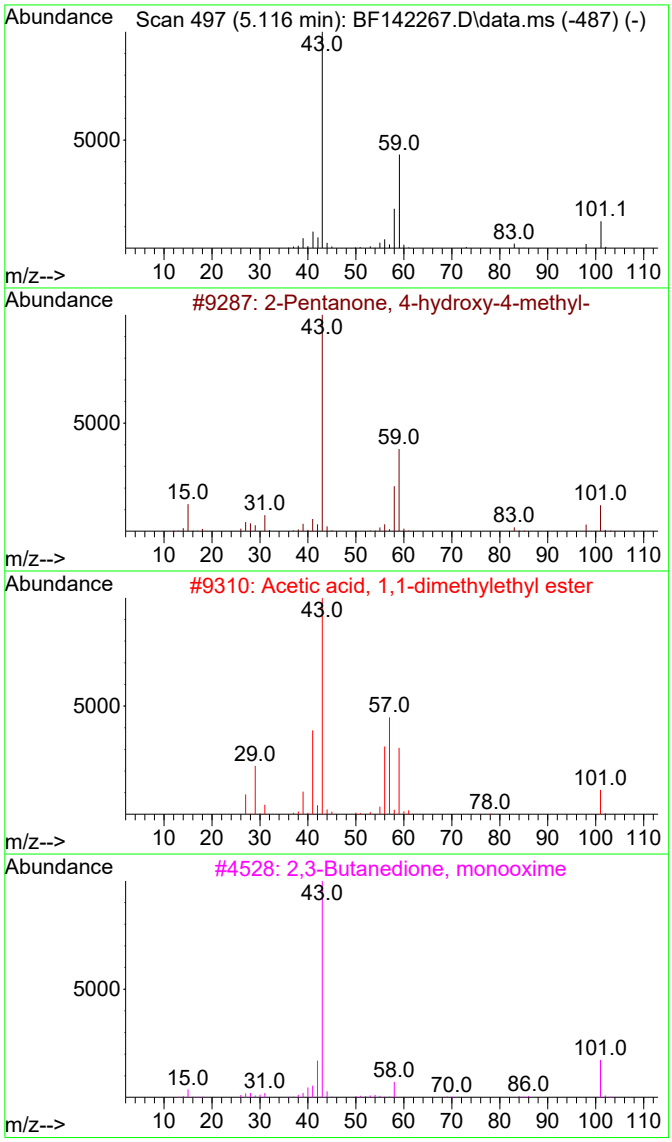
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

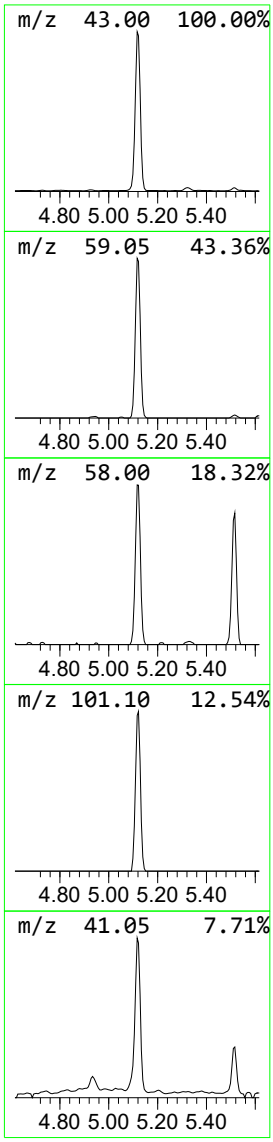
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	4.56 ng	268667	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	78
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Acetone	58	C3H6O	000067-64-1	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

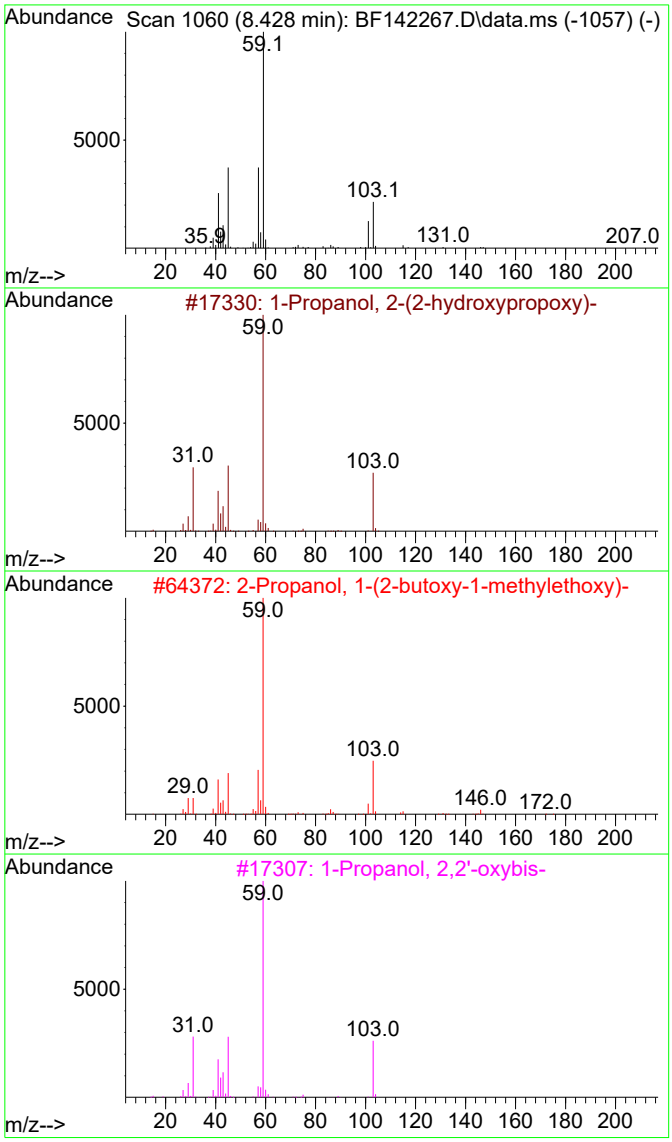
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

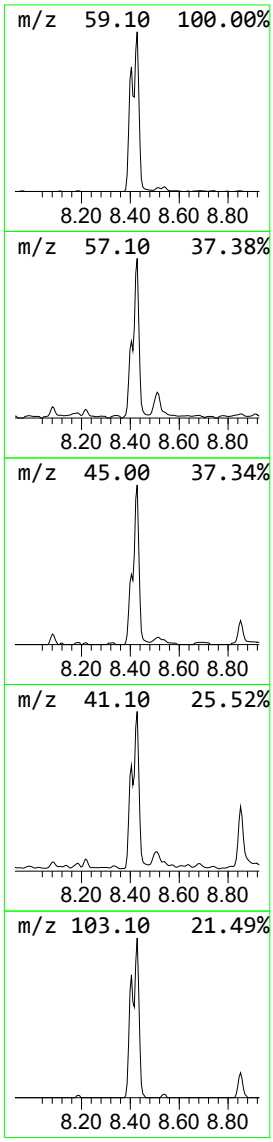
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1-Propanol, 2-(2-hydroxypro... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.428	2.91 ng	220515	Naphthalene-d8	8.187

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	78
2	2-Propanol, 1-(2-butoxy-1-methyl...	190	C10H22O3	029911-28-2	78
3	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	78
4	1-(1-tert-Butoxypropan-2-yloxy)p...	190	C10H22O3	132739-31-2	64
5	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	4.6	ng	268667	1	6.904	1179360	20.0
1-Propanol, 2-(...	8.428	2.9	ng	220515	2	8.187	1516230	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Time: May 01 14:50:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

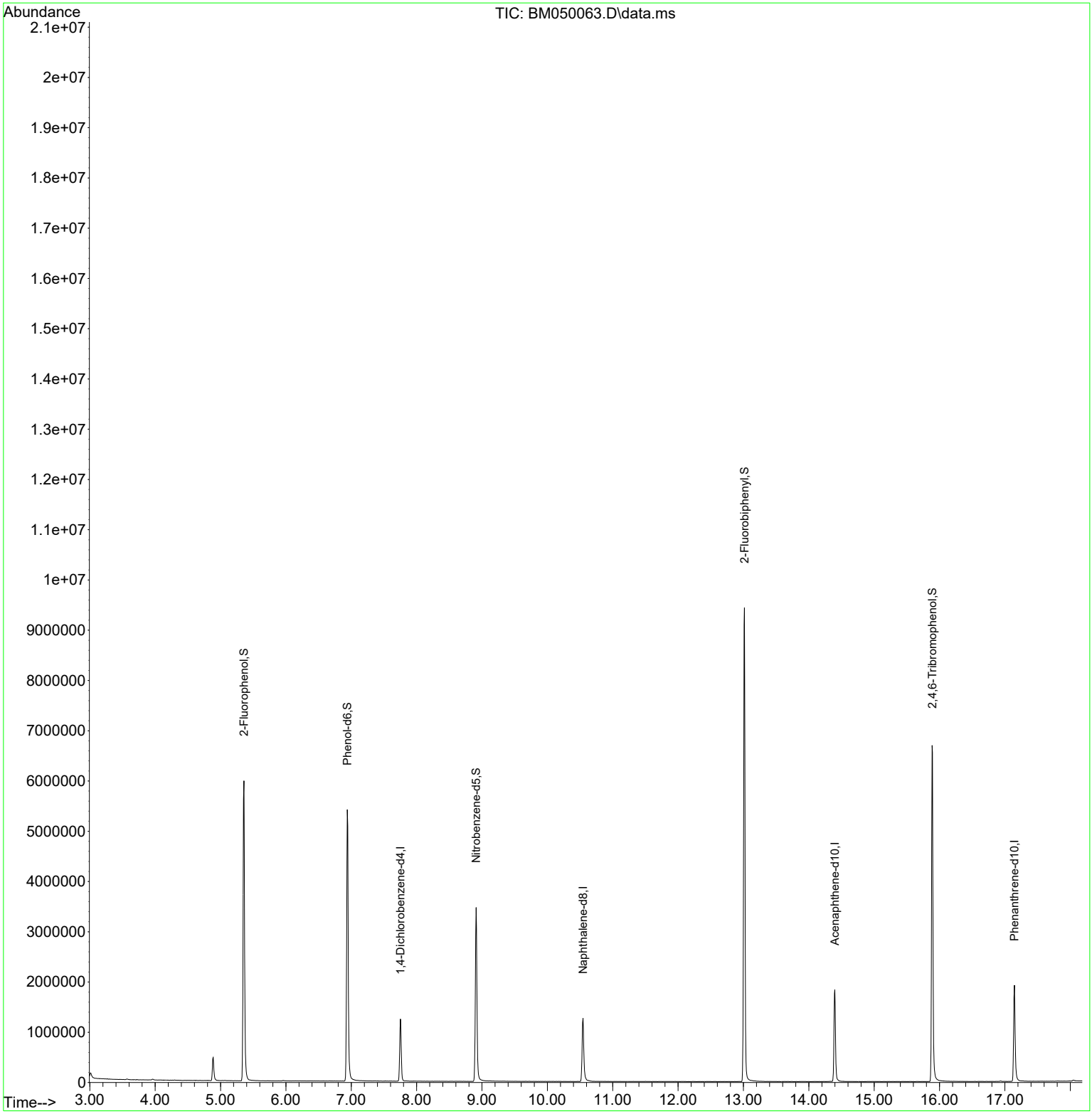
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.751	152	362102	20.000	ng	-0.02
21) Naphthalene-d8	10.545	136	1207361	20.000	ng	-0.02
39) Acenaphthene-d10	14.398	164	720688	20.000	ng	-0.01
64) Phenanthrene-d10	17.145	188	1342353	20.000	ng	-0.01
76) Chrysene-d12	21.386	240	1132572	20.000	ng	-0.01
86) Perylene-d12	24.374	264	1130011	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	2945826	142.456	ng	0.00
7) Phenol-d6	6.940	99	3469180	133.478	ng	-0.01
23) Nitrobenzene-d5	8.910	82	2142058	87.425	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	1478724	138.765	ng	-0.01
45) 2-Fluorobiphenyl	13.016	172	5379270	88.299	ng	-0.02
79) Terphenyl-d14	19.768	244	8132476	106.253	ng	-0.01
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

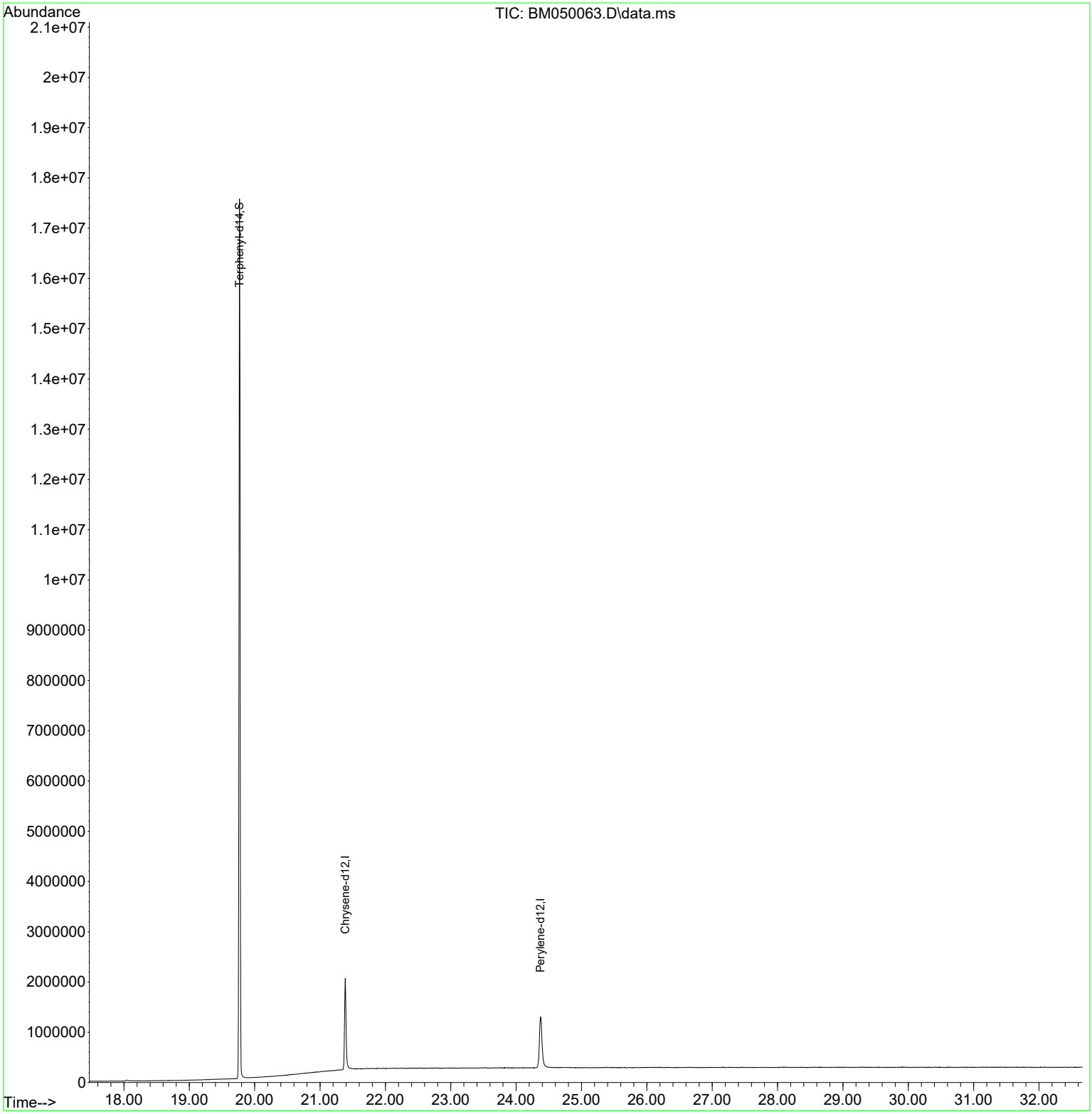
Quant Time: May 01 14:50:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

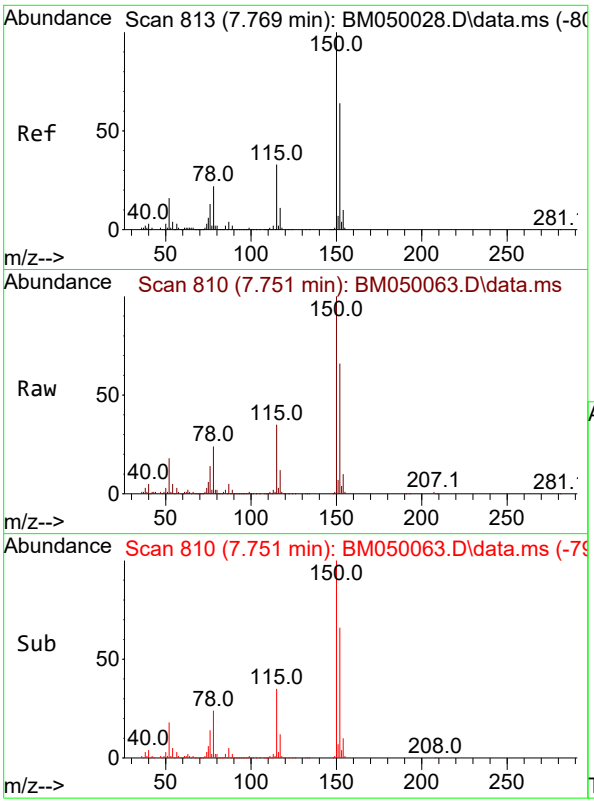


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Time: May 01 14:50:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



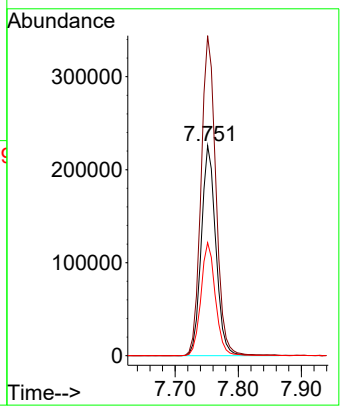


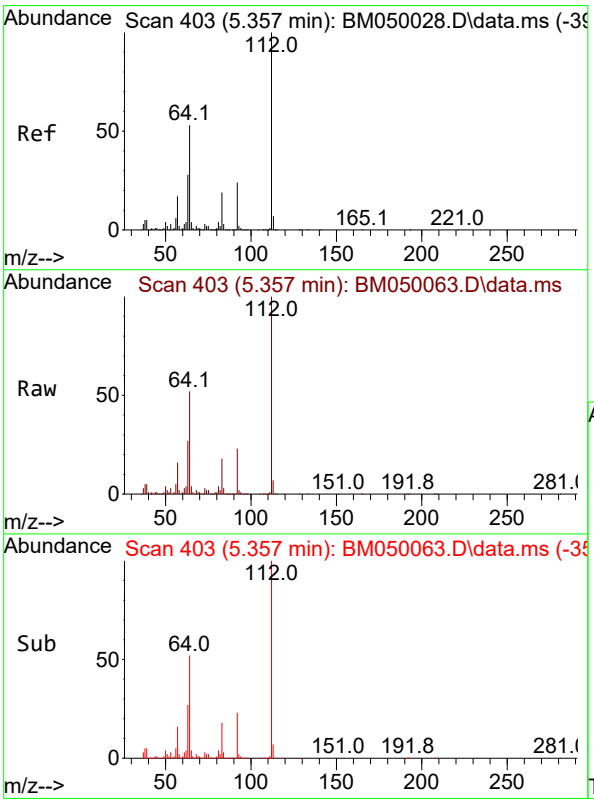
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.751 min Scan# 8
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:152 Resp: 362102

Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.1	186.1
115	53.8	41.2	61.8

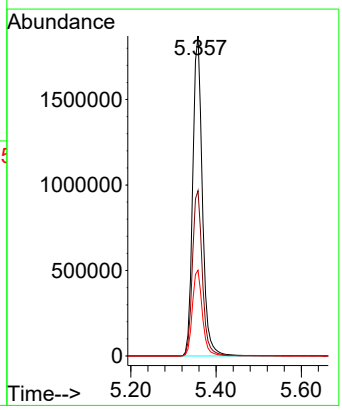


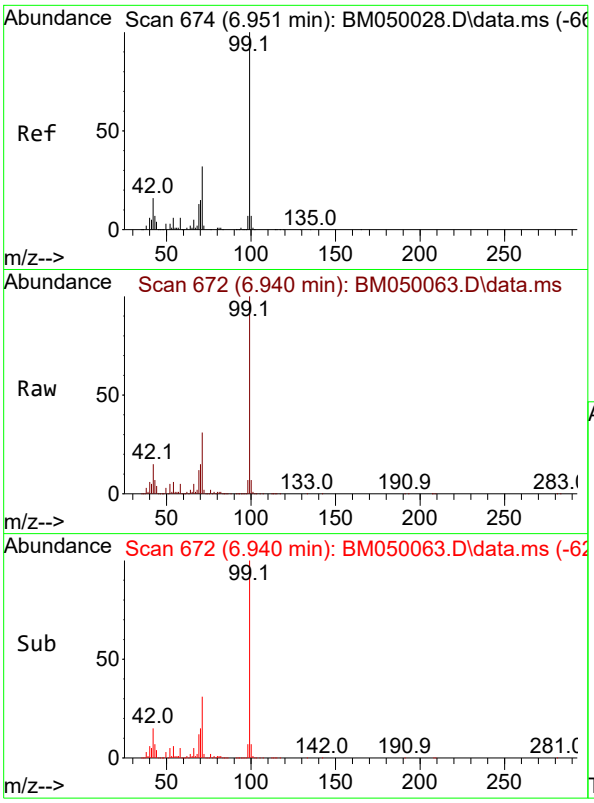


#5
2-Fluorophenol
Concen: 142.456 ng
RT: 5.357 min Scan# 403
Delta R.T. 0.000 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:112 Resp: 2945826

Ion	Ratio	Lower	Upper
112	100		
64	51.7	42.6	64.0
63	26.8	22.2	33.4



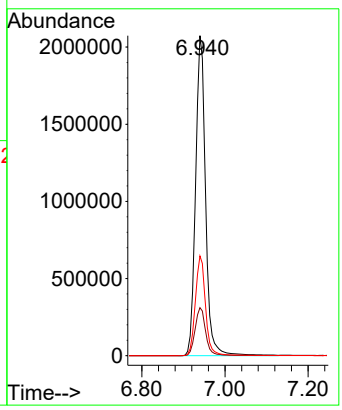


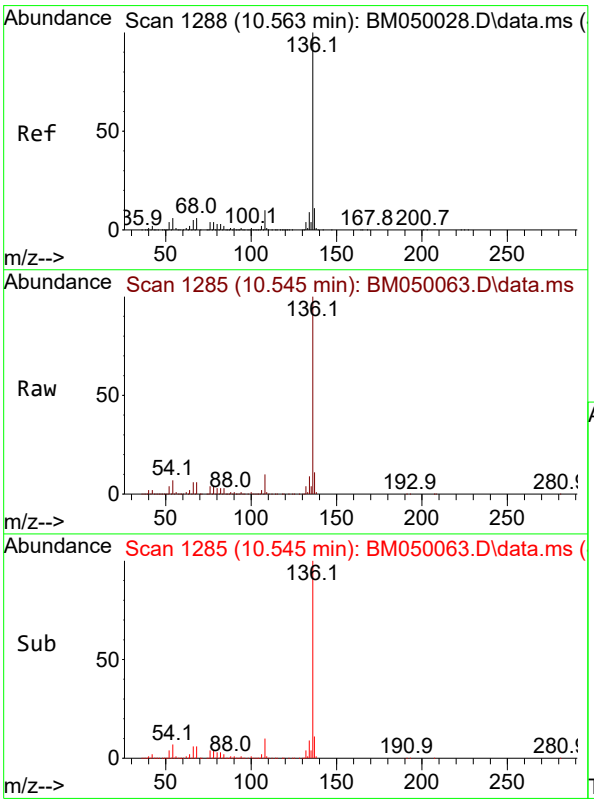
#7
Phenol-d6
Concen: 133.478 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion: 99 Resp: 3469180

Ion	Ratio	Lower	Upper
99	100		
42	15.0	13.0	19.4
71	31.2	25.6	38.4

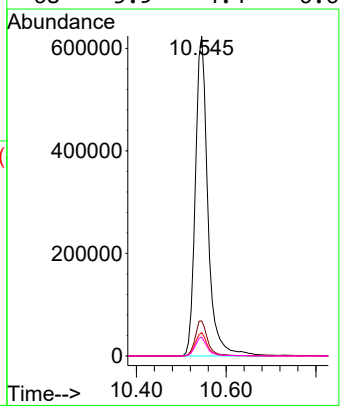


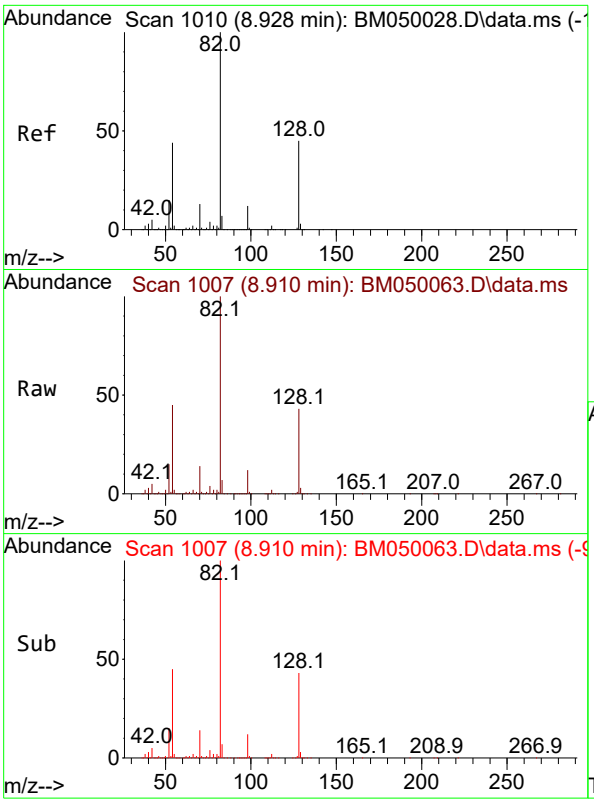


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.545 min Scan# 1285
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:136 Resp: 1207361

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.3	5.1	7.7
68	5.9	4.4	6.6



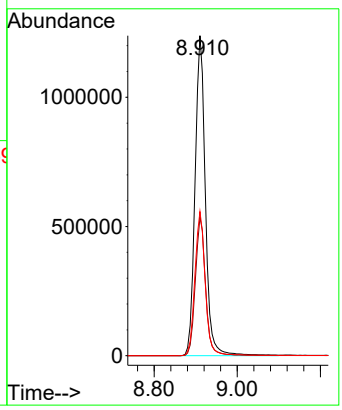


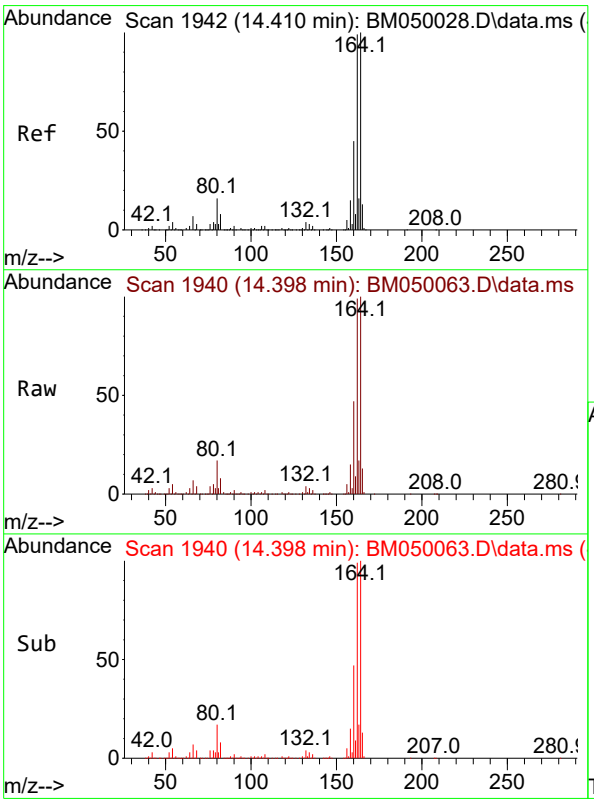
#23
Nitrobenzene-d5
Concen: 87.425 ng
RT: 8.910 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion: 82 Resp: 2142058

Ion	Ratio	Lower	Upper
82	100		
128	43.3	35.7	53.5
54	45.0	35.4	53.2

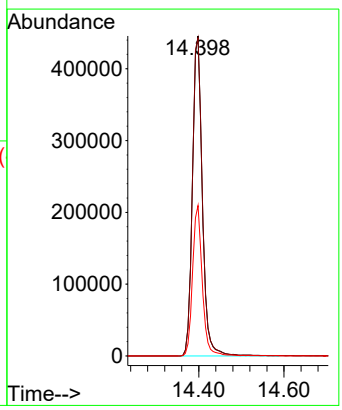


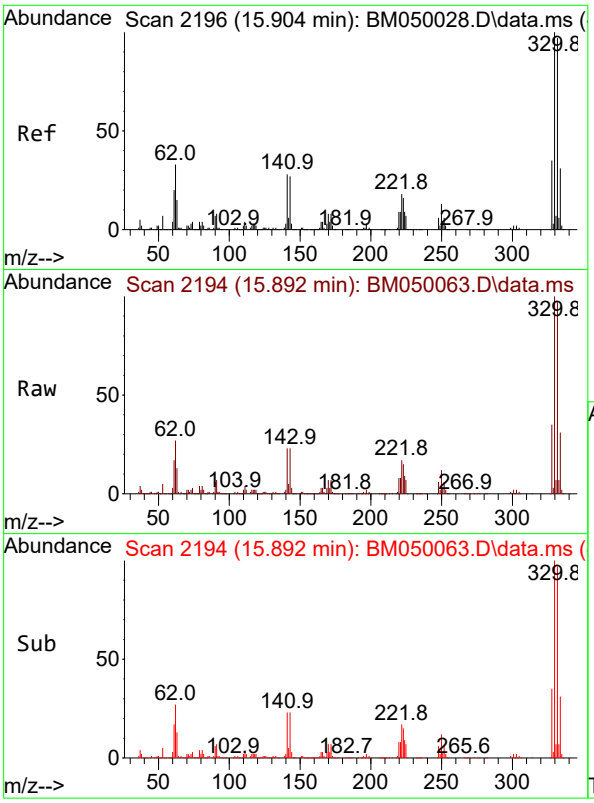


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.398 min Scan# 1940
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:164 Resp: 720688

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.4	119.0
160	47.0	36.2	54.4



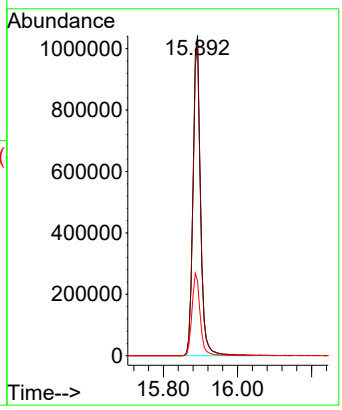


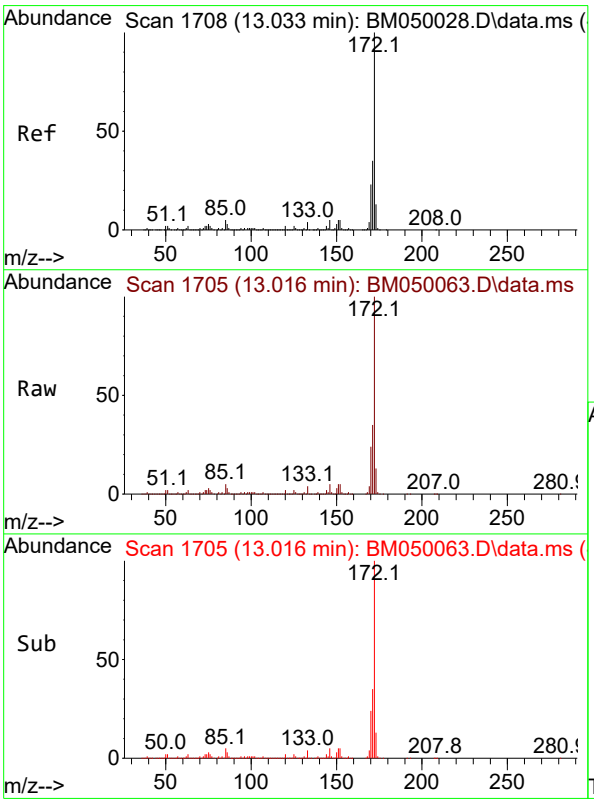
#42
2,4,6-Tribromophenol
Concen: 138.765 ng
RT: 15.892 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:330 Resp: 1478724

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.3	115.9
141	27.8	22.5	33.7

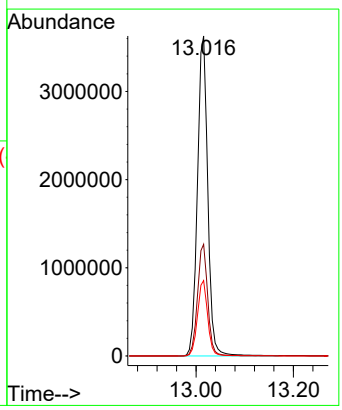


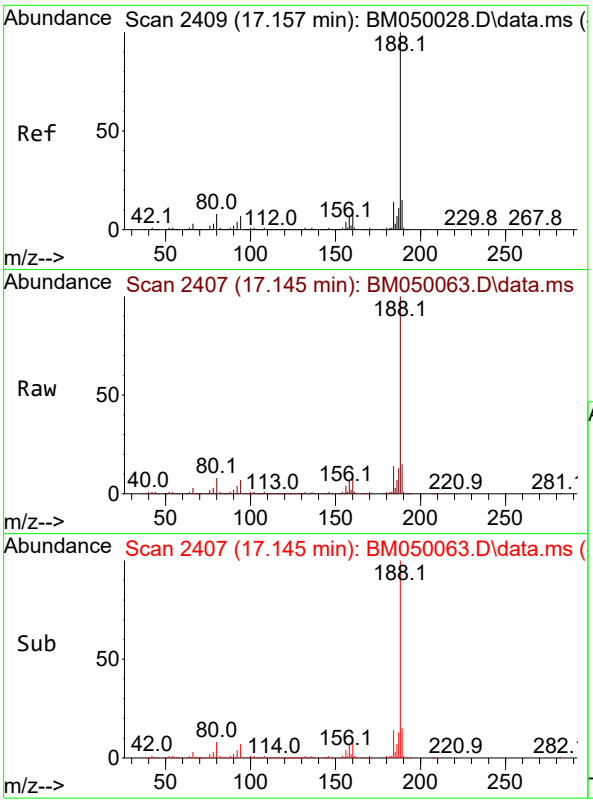


#45
2-Fluorobiphenyl
Concen: 88.299 ng
RT: 13.016 min Scan# 1705
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:172 Resp: 5379270

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.8	41.6
170	23.6	18.6	28.0



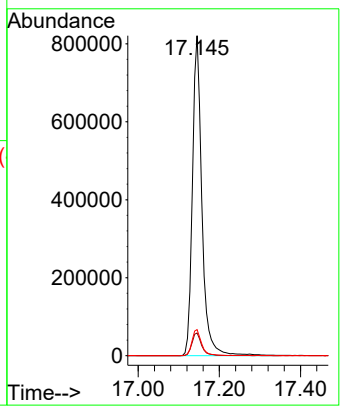


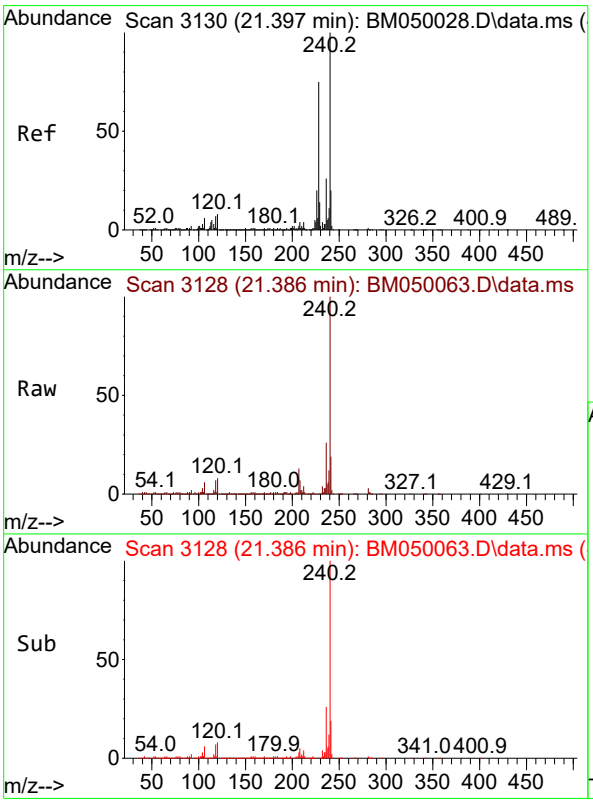
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:188 Resp: 1342353

Ion	Ratio	Lower	Upper
188	100		
94	7.1	5.7	8.5
80	8.2	6.2	9.4

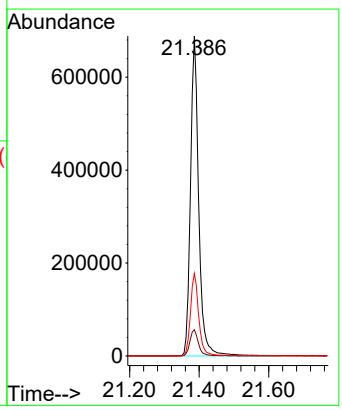


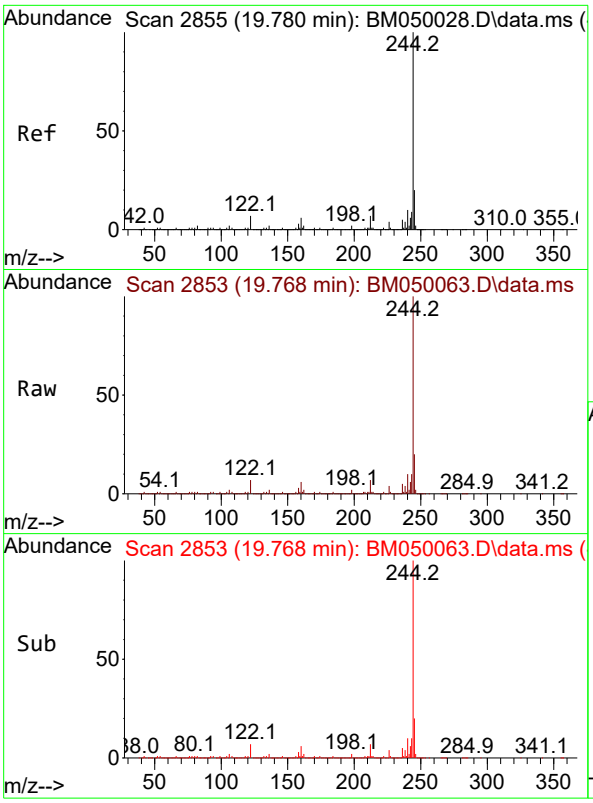


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 3128
Delta R.T. -0.011 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:240 Resp: 1132572

Ion	Ratio	Lower	Upper
240	100		
120	8.2	6.5	9.7
236	25.8	20.9	31.3



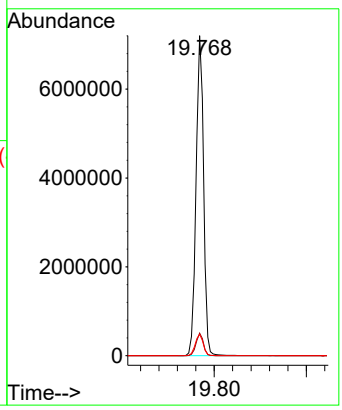


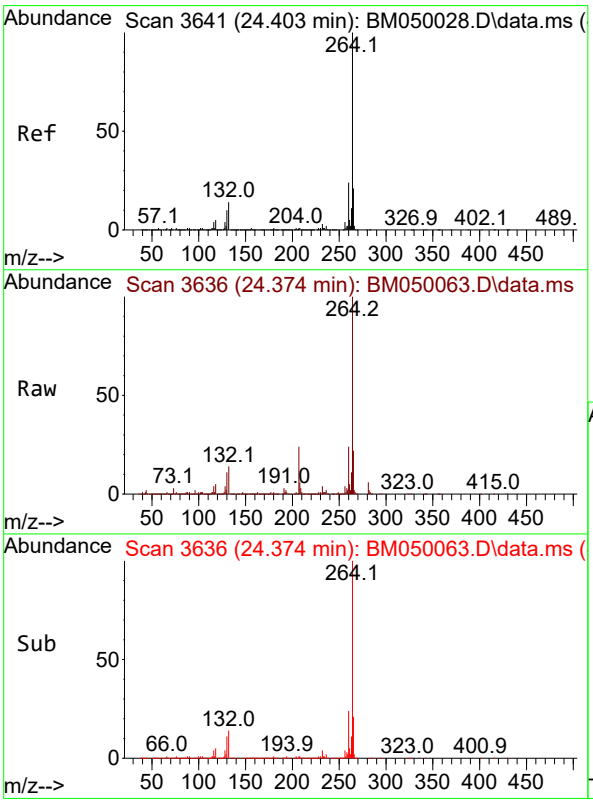
#79
Terphenyl-d14
Concen: 106.253 ng
RT: 19.768 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:244 Resp: 8132476

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	6.7	5.6	8.4

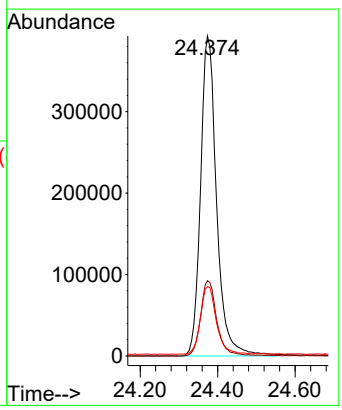




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.374 min Scan# 3636
Delta R.T. -0.029 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:264 Resp: 1130011

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.8	28.2
265	21.6	17.0	25.4



Sample Results: **BM050063.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM050063.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.887	317	323	334	rBV	459799	758641	3.77%	0.876%
2	5.357	396	403	425	rBV	5969687	9594842	47.74%	11.079%
3	6.940	663	672	700	rBV	5402362	9347783	46.51%	10.794%
4	7.751	803	810	822	rBV	1234998	1998520	9.94%	2.308%
5	8.910	998	1007	1029	rBV	3459132	6011582	29.91%	6.941%
6	10.545	1278	1285	1309	rBV	1253618	2408398	11.98%	2.781%
7	13.016	1697	1705	1723	rBV	9432172	14265690	70.98%	16.472%
8	14.398	1933	1940	1953	rBV	1827170	2956725	14.71%	3.414%
9	15.886	2186	2193	2215	rBV	6688411	10207325	50.79%	11.786%
10	17.145	2399	2407	2425	rBV	1914784	3145791	15.65%	3.632%
11	19.768	2847	2853	2864	rBV	17505231	20097125	100.00%	23.206%
12	21.386	3122	3128	3143	rBV	1815201	2996517	14.91%	3.460%
13	24.374	3628	3636	3655	rVB	996721	2814993	14.01%	3.250%

Sum of corrected areas: 86603932

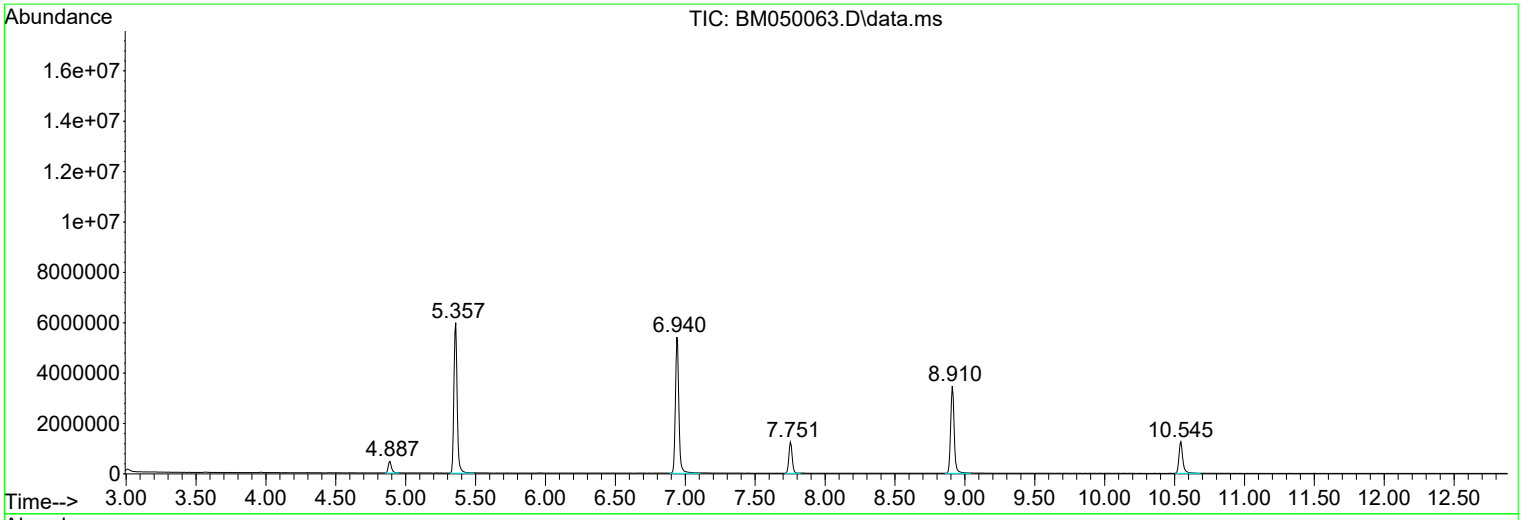
Sample Results: **BM050063.D**

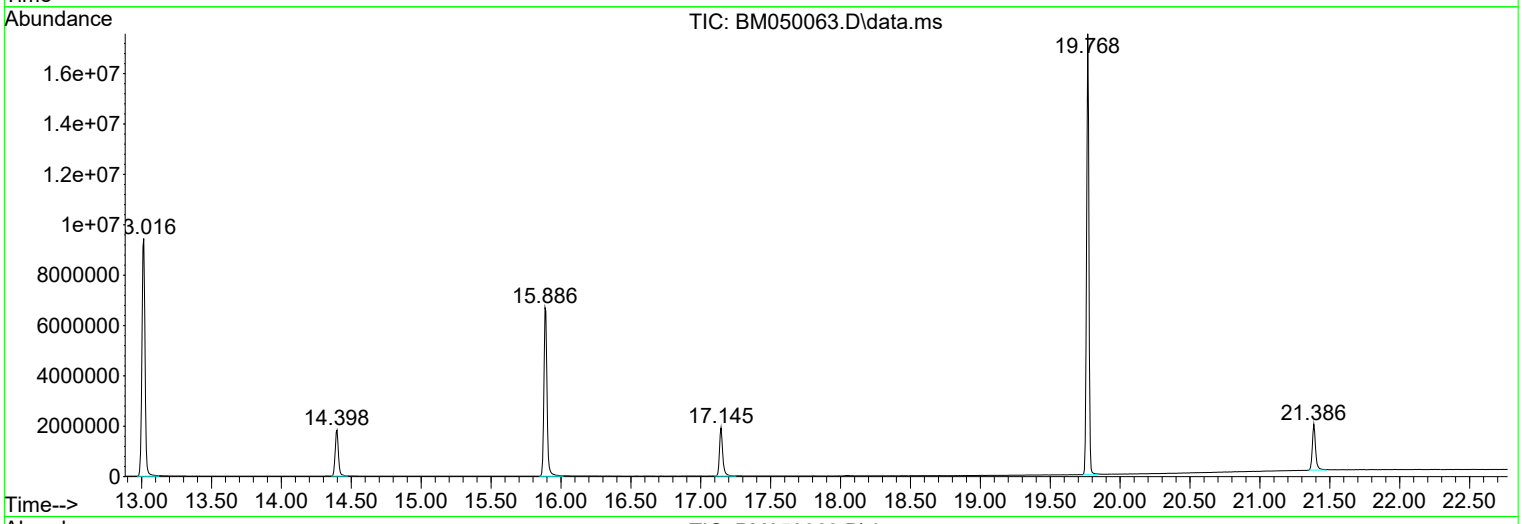
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

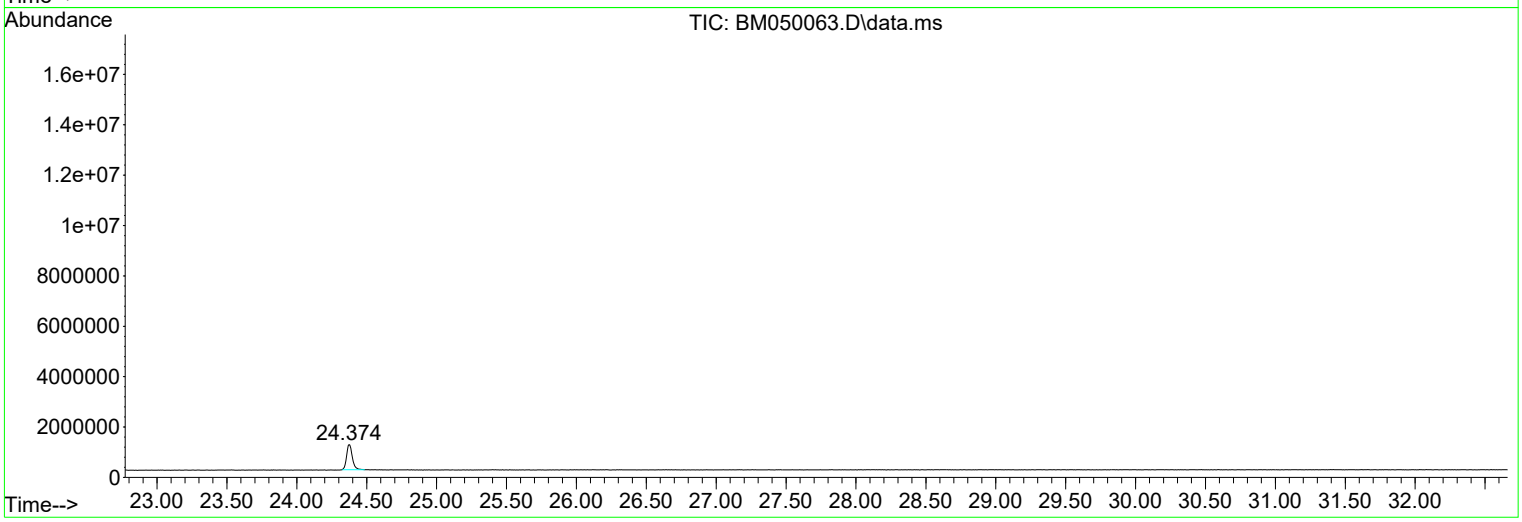
Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

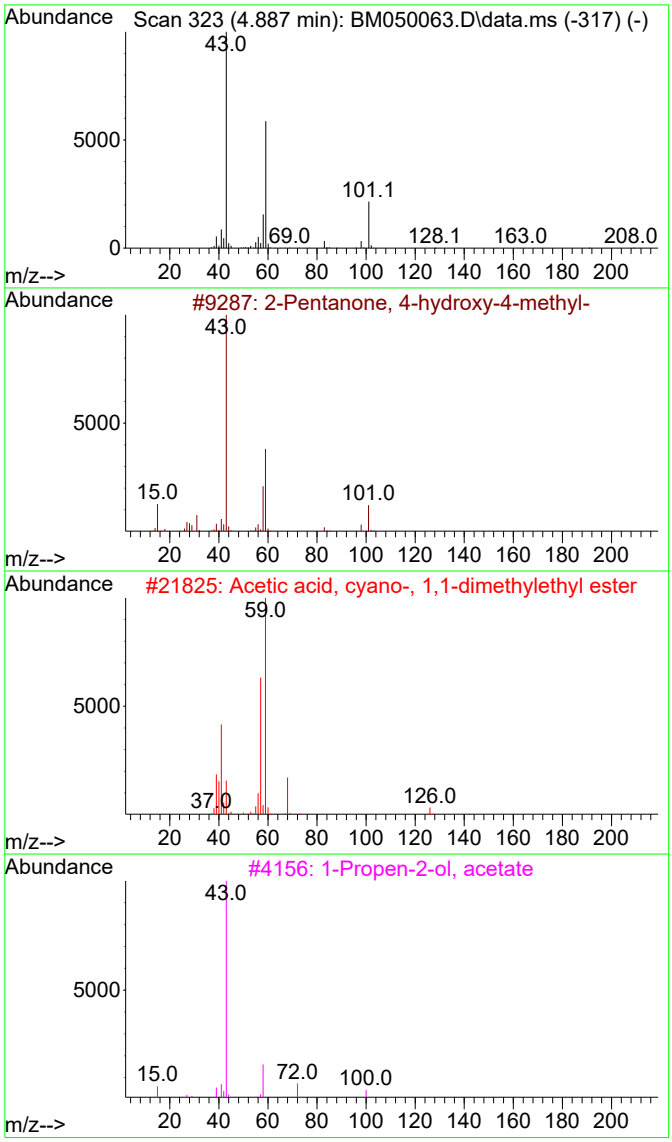
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

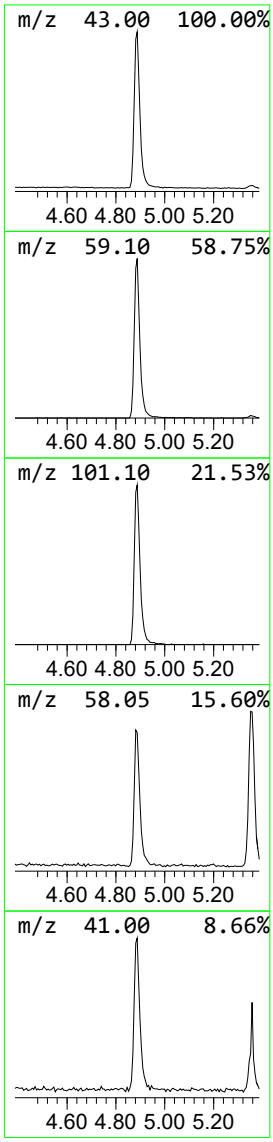
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.887	7.59 ng	758641	1,4-Dichlorobenzene-d4	7.751

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.887	7.6	ng	758641	1	7.751	1998520	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Time: May 01 11:47:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

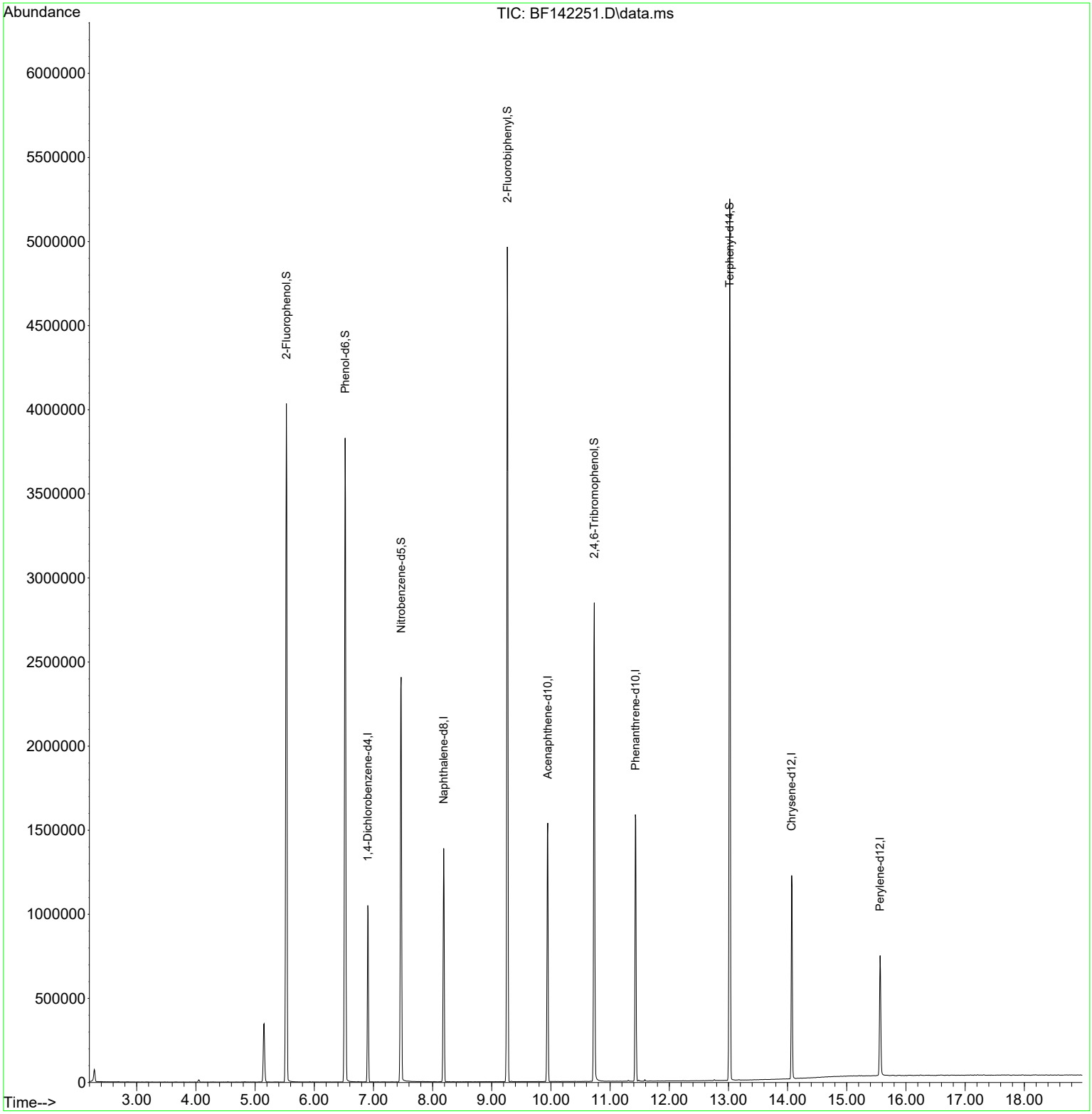
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	227901	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	877397	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	467254	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	826787	20.000	ng	0.00
76) Chrysene-d12	14.069	240	587490	20.000	ng	0.00
86) Perylene-d12	15.563	264	406867	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1618858	113.445	ng	0.01
7) Phenol-d6	6.522	99	1952554	113.309	ng	0.00
23) Nitrobenzene-d5	7.469	82	1072746	80.325	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	504593	118.458	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2332756	70.392	ng	0.00
79) Terphenyl-d14	13.022	244	2599136	64.345	ng	0.00
Target Compounds						Qvalue

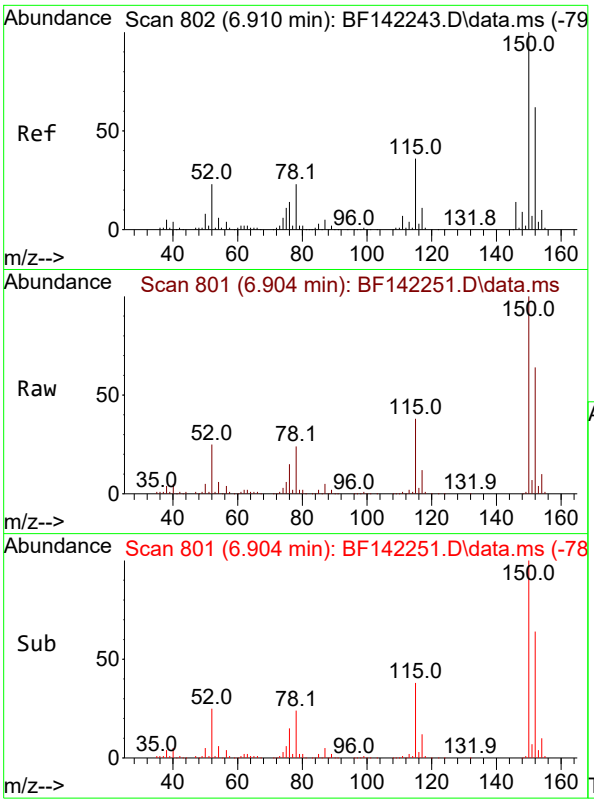
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Time: May 01 11:47:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



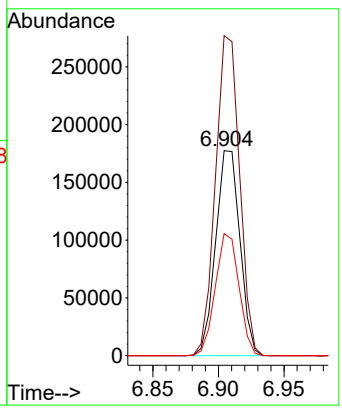


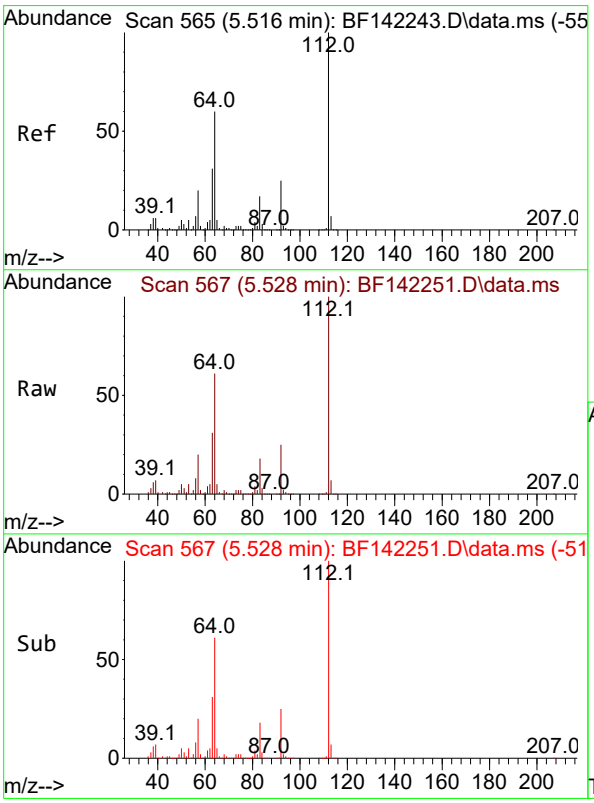
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:152 Resp: 227901

Ion	Ratio	Lower	Upper
152	100		
150	156.2	130.2	195.2
115	59.6	47.0	70.4

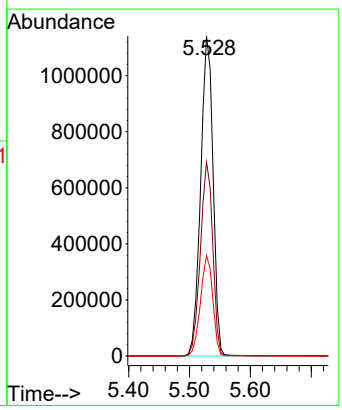




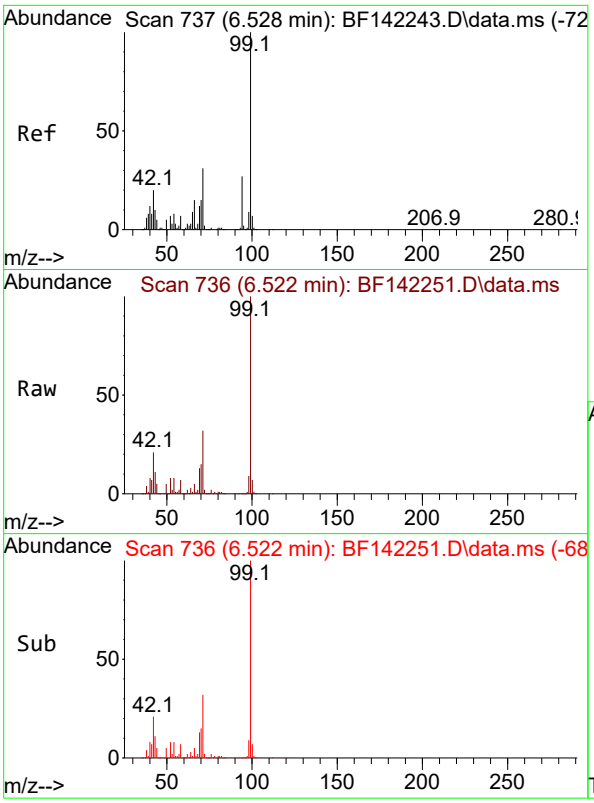
#5
2-Fluorophenol
Concen: 113.445 ng
RT: 5.528 min Scan# 567
Delta R.T. 0.012 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:112 Resp: 1618858

Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.4	72.6
63	31.4	24.8	37.2



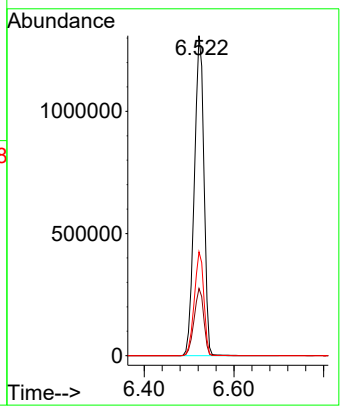
Instrument :
BNA_F
ClientSampleId :
PB167798BL

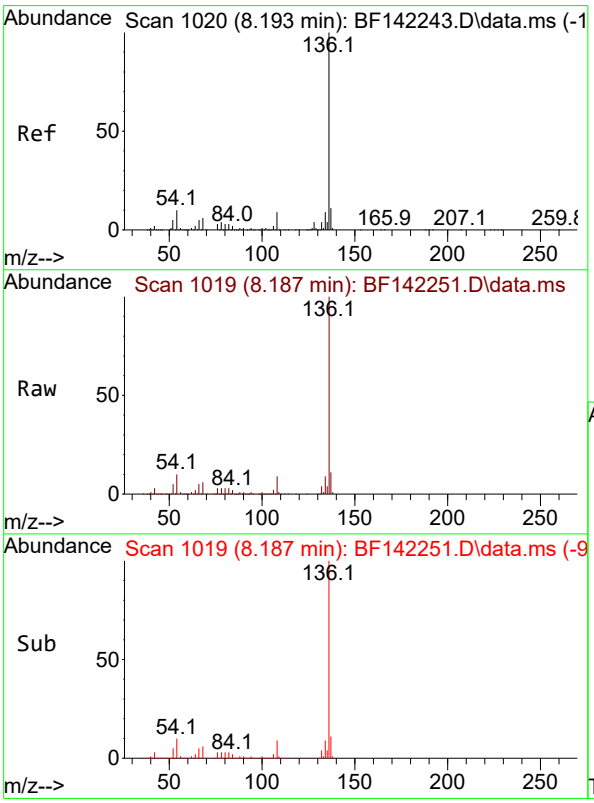


#7
Phenol-d6
Concen: 113.309 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion: 99 Resp: 1952554

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	32.4	25.0	37.4

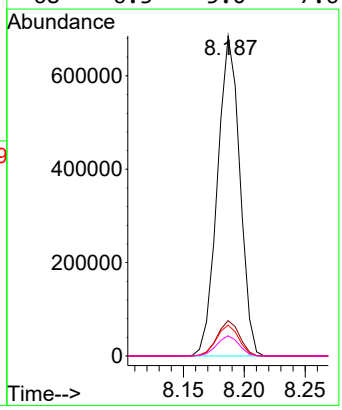


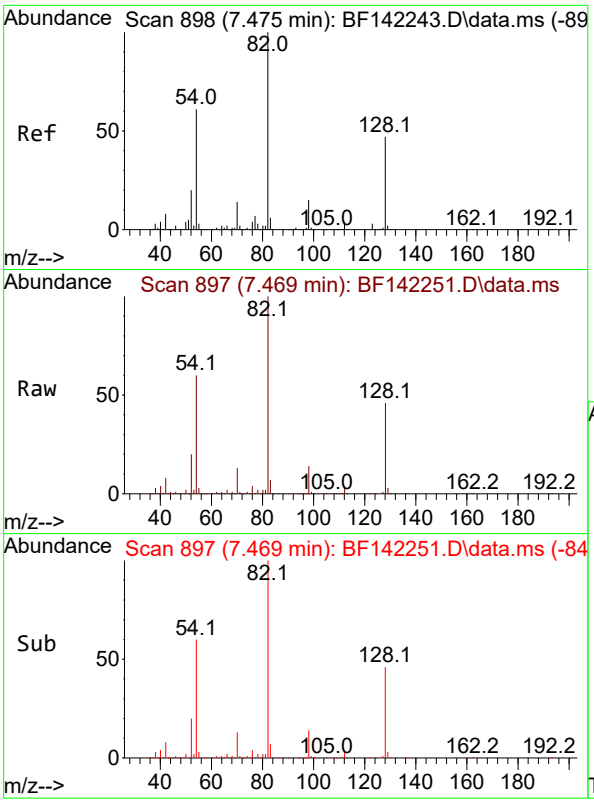


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:136 Resp: 877397

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	9.7	7.7	11.5
68	6.3	5.0	7.6



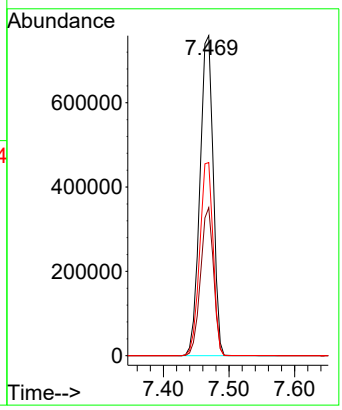


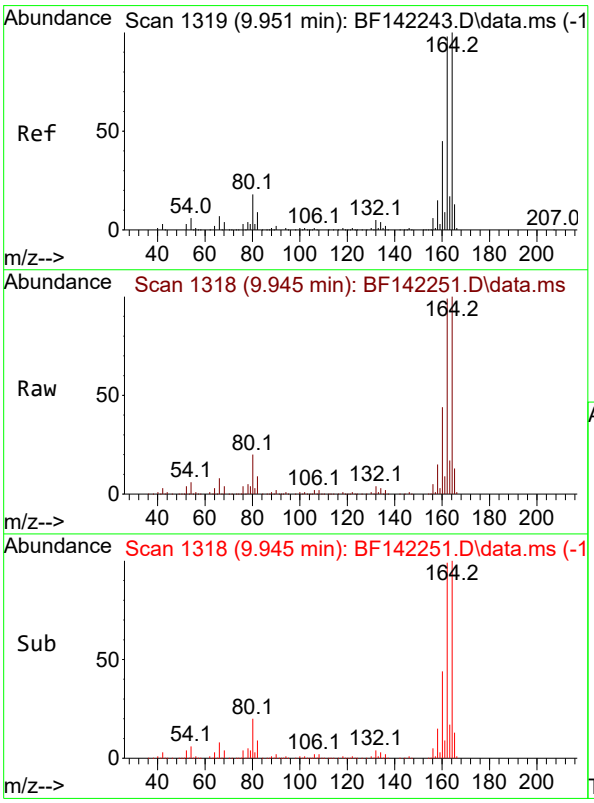
#23
Nitrobenzene-d5
Concen: 80.325 ng
RT: 7.469 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion: 82 Resp: 1072746

Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.0	55.6
54	60.4	48.0	72.0

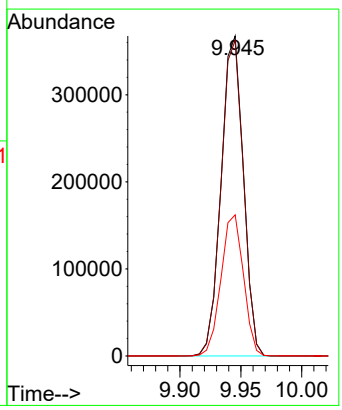


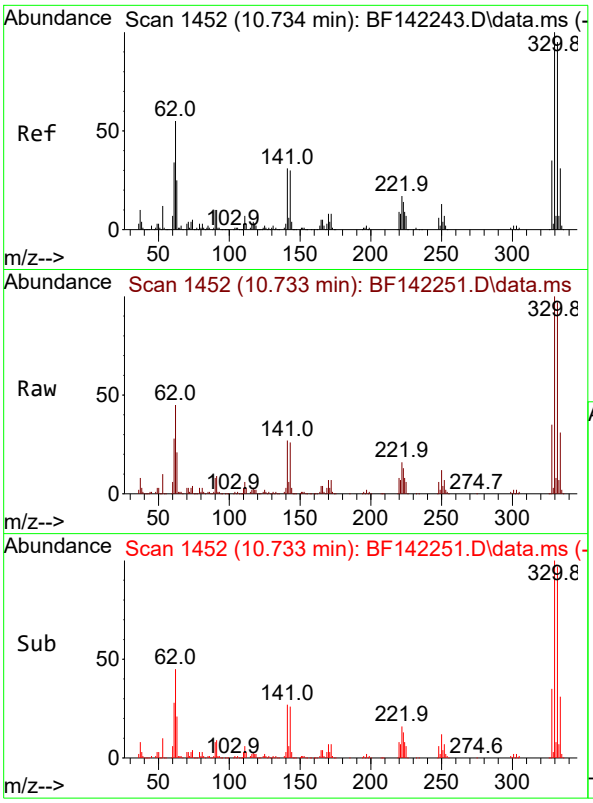


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:164 Resp: 467254

Ion	Ratio	Lower	Upper
164	100		
162	98.6	78.6	117.8
160	44.1	35.7	53.5



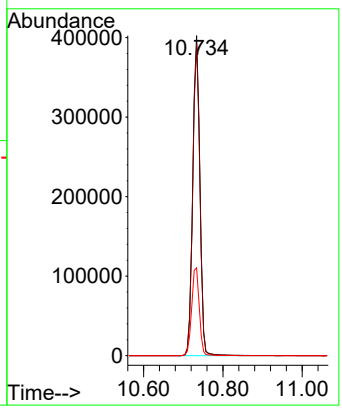


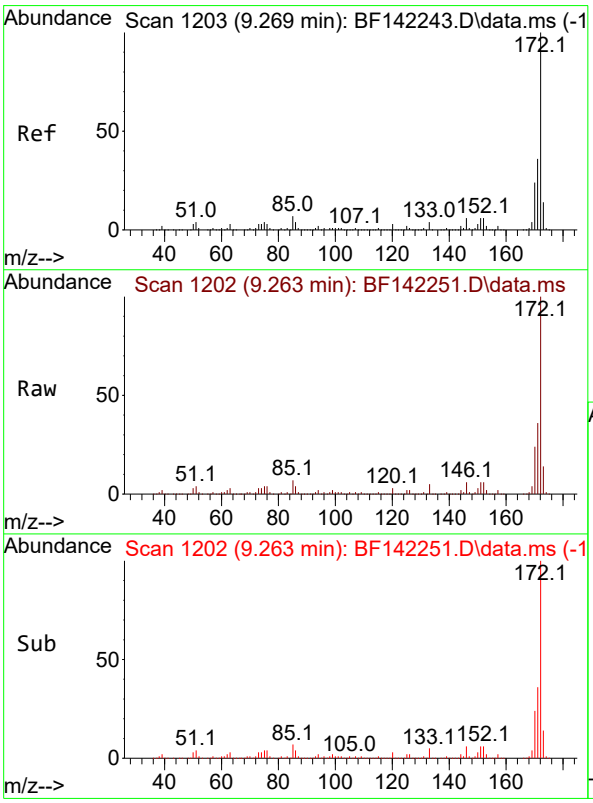
#42
2,4,6-Tribromophenol
Concen: 118.458 ng
RT: 10.733 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:330 Resp: 504593

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.5	114.7
141	29.4	24.3	36.5

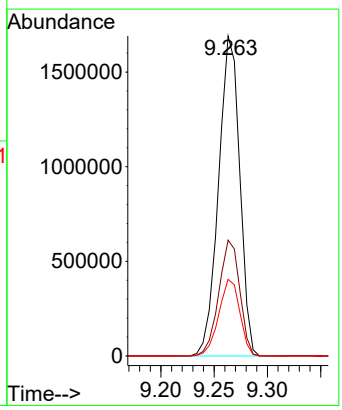


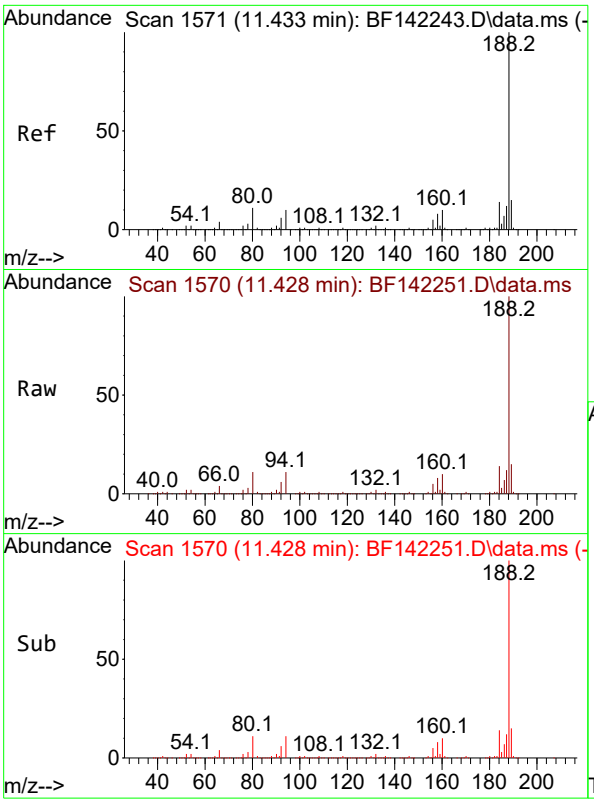


#45
2-Fluorobiphenyl
Concen: 70.392 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:172 Resp: 2332756

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	23.9	19.4	29.0



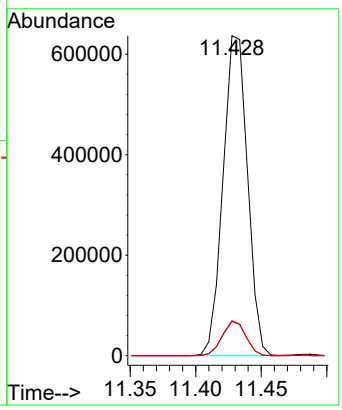


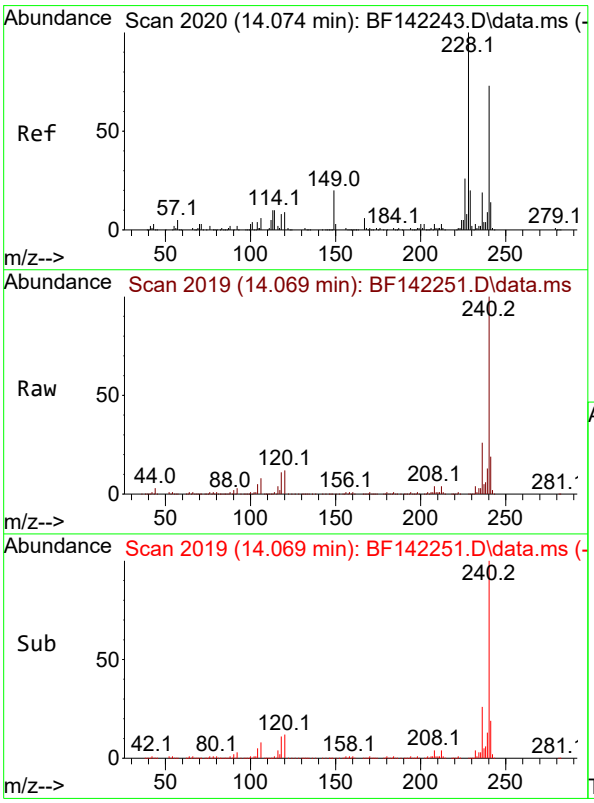
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:188 Resp: 826787

Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.2	12.2
80	11.0	8.6	12.8

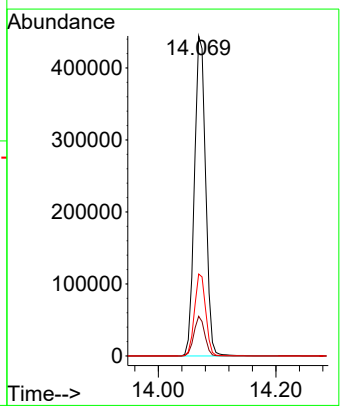


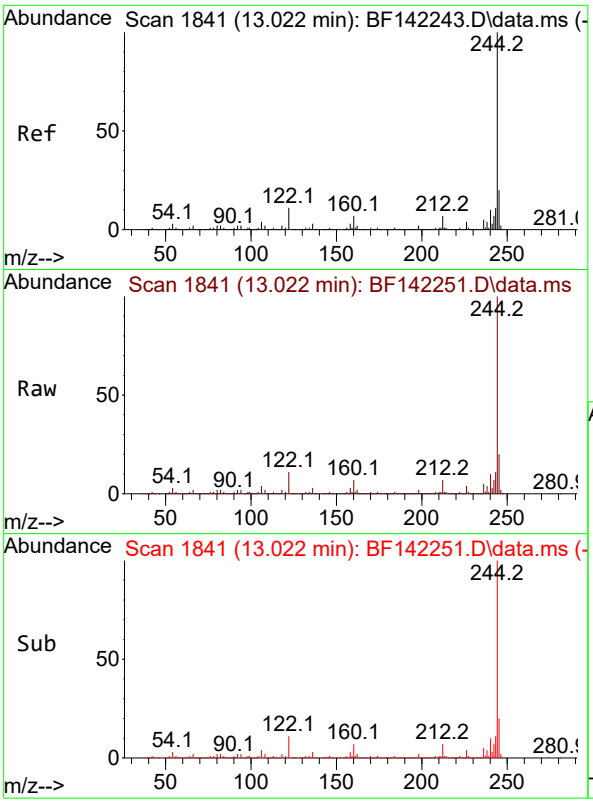


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:240 Resp: 587490

Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.1	15.1
236	25.6	20.5	30.7



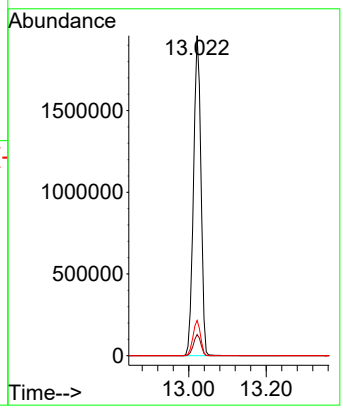


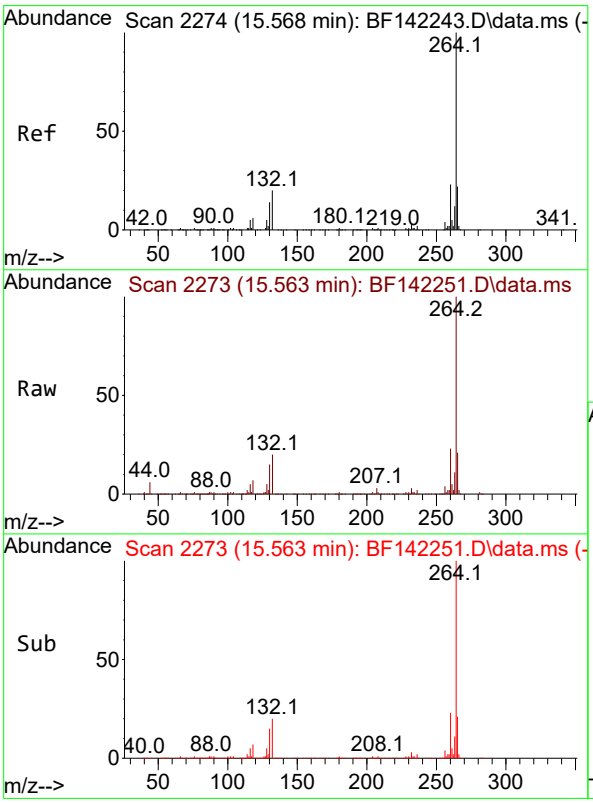
#79
Terphenyl-d14
Concen: 64.345 ng
RT: 13.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:244 Resp: 2599136

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.0	9.1	13.7

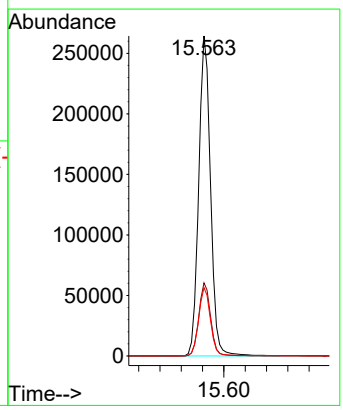




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:264 Resp: 406867

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.4	27.6
265	21.3	17.3	25.9



Sample Results: **BF142251.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142251.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.281	3	15	21	rVB	72528	129743	1.87%	0.303%
2	5.152	495	503	512	rBV	346717	578202	8.32%	1.351%
3	5.528	560	567	572	rBV	4034216	5689345	81.87%	13.298%
4	6.522	729	736	742	rBV	3828941	5699010	82.00%	13.321%
5	6.904	796	801	807	rBV	1049000	1327795	19.11%	3.104%
6	7.469	890	897	902	rBV	2406535	3425359	49.29%	8.006%
7	8.187	1013	1019	1024	rBV	1387508	1773134	25.51%	4.144%
8	9.263	1195	1202	1207	rBV	4963685	6782793	97.60%	15.854%
9	9.945	1311	1318	1323	rBV	1537216	1976183	28.44%	4.619%
10	10.734	1446	1452	1472	rBV	2844457	3734766	53.74%	8.730%
11	11.428	1565	1570	1576	rBV	1584811	2051812	29.52%	4.796%
12	13.022	1835	1841	1846	rBV	5241158	6949651	100.00%	16.244%
13	14.069	2014	2019	2031	rBV	1209373	1585462	22.81%	3.706%
14	15.563	2267	2273	2285	rBV	711927	1079782	15.54%	2.524%

Sum of corrected areas: 42783037

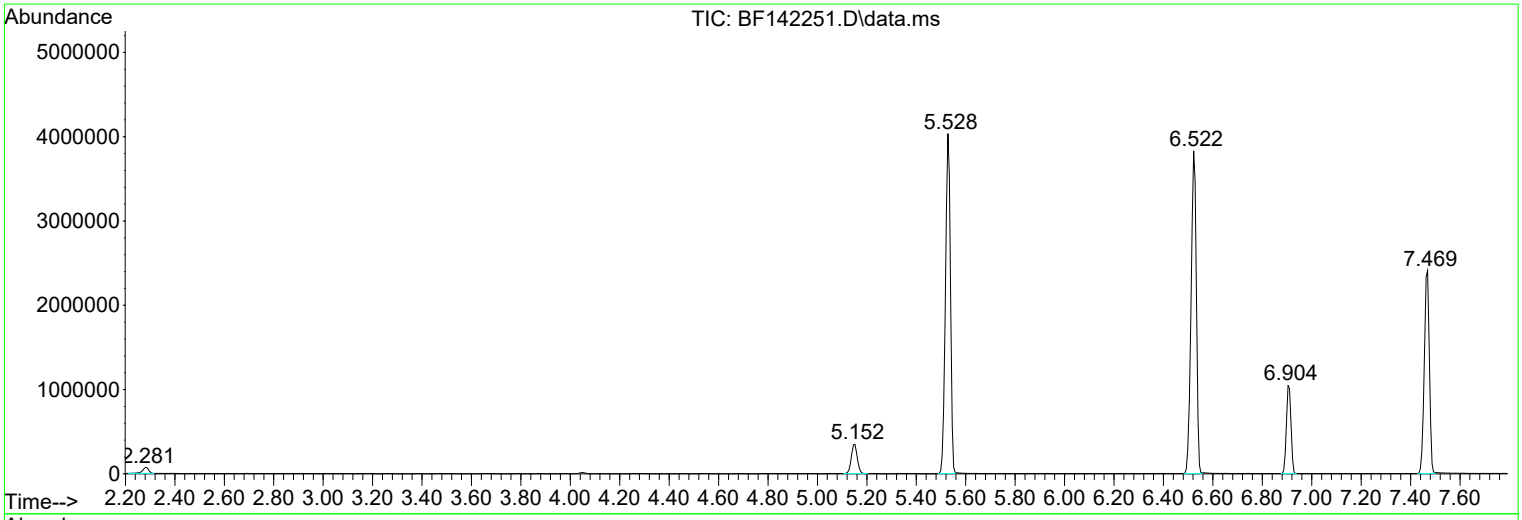
Sample Results: **BF142251.D**

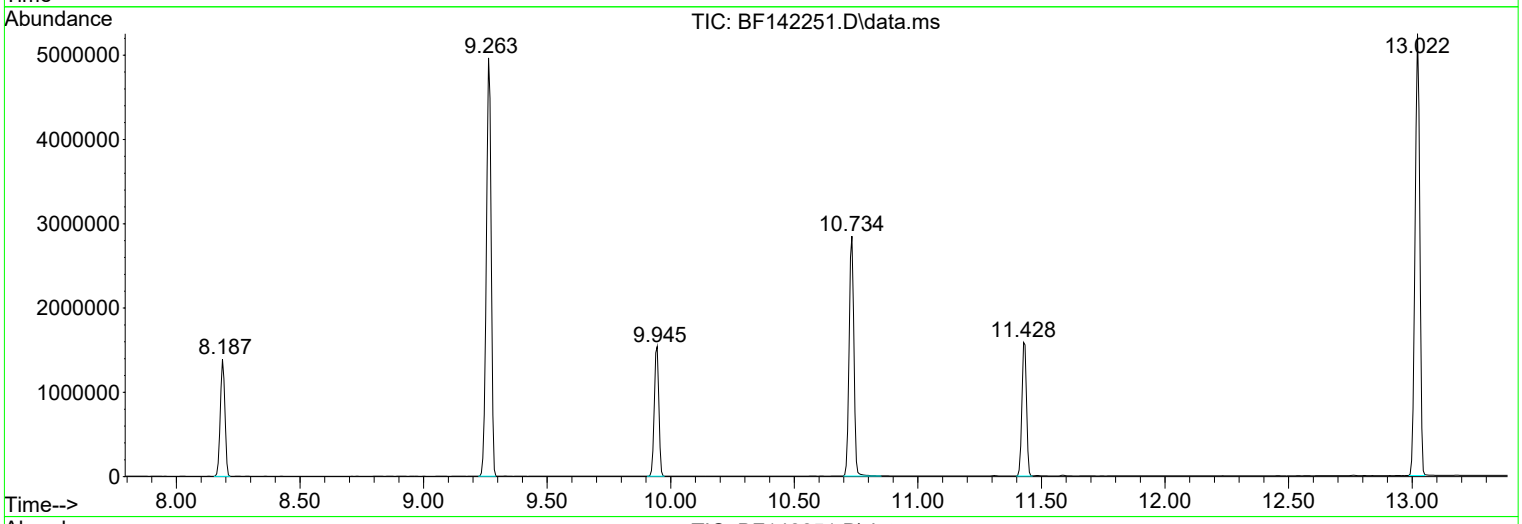
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

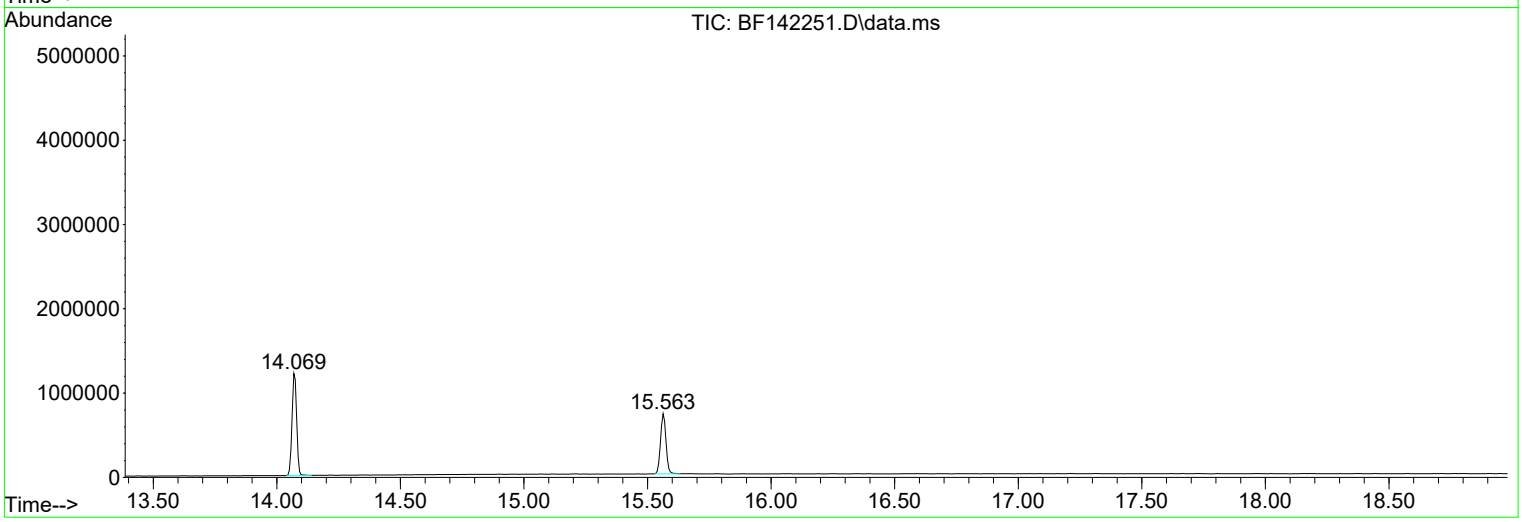
Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

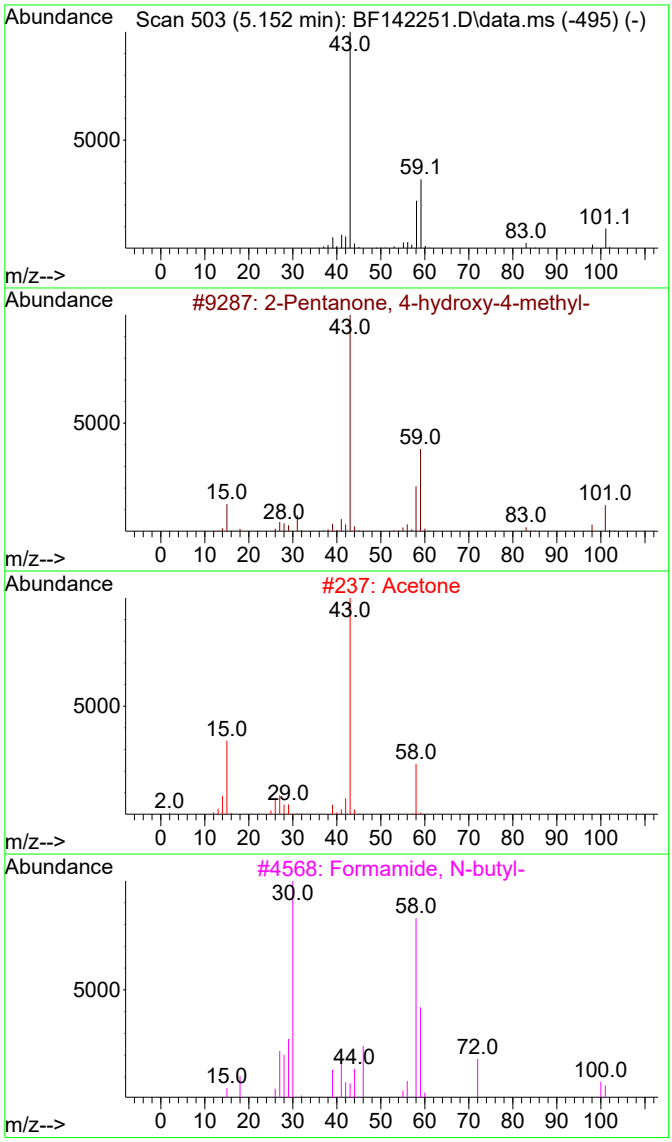
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

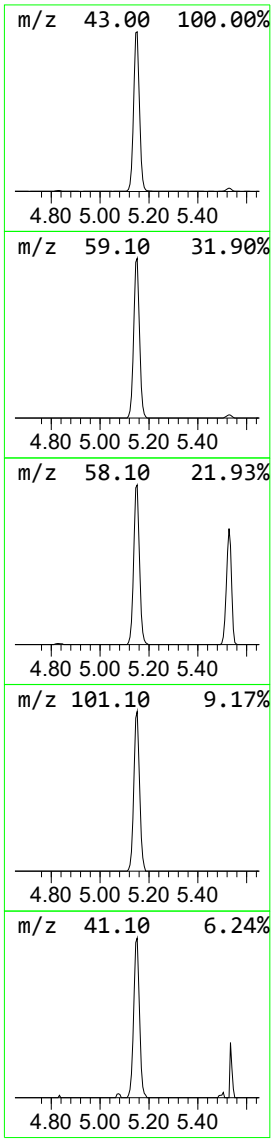
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.152	8.71 ng	578202	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	78
2	Acetone	58	C3H6O	000067-64-1	32
3	Formamide, N-butyl-	101	C5H11NO	000871-71-6	9
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9
5	Oxirane, (propoxymethyl)-	116	C6H12O2	003126-95-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.152	8.7	ng	578202	1	6.904	1327800	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.751	152	339452	20.000	ng		-0.02
21) Naphthalene-d8	10.545	136	1125326	20.000	ng		-0.02
39) Acenaphthene-d10	14.392	164	664515	20.000	ng		-0.02
64) Phenanthrene-d10	17.139	188	1227379	20.000	ng		-0.02
76) Chrysene-d12	21.380	240	1219126	20.000	ng		-0.02
86) Perylene-d12	24.374	264	1104893	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.357	112	2750867	141.904	ng		0.00
7) Phenol-d6	6.945	99	3291918	135.109	ng		0.00
23) Nitrobenzene-d5	8.910	82	1972634	86.379	ng		-0.02
42) 2,4,6-Tribromophenol	15.892	330	1401142	142.599	ng		-0.01
45) 2-Fluorobiphenyl	13.016	172	4900655	87.243	ng		-0.02
79) Terphenyl-d14	19.768	244	7315200	88.790	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.263	88	324106	38.993	ng		96
3) Pyridine	3.657	79	906904	42.466	ng		96
4) n-Nitrosodimethylamine	3.575	42	376694	44.973	ng		98
6) Aniline	7.087	93	675837	21.967	ng		99
8) 2-Chlorophenol	7.328	128	919150	43.853	ng		98
9) Benzaldehyde	6.898	77	434002	26.618	ng		96
10) Phenol	6.969	94	1124630	45.595	ng		99
11) bis(2-Chloroethyl)ether	7.181	93	902546	43.821	ng		98
12) 1,3-Dichlorobenzene	7.645	146	1101376	43.500	ng		100
13) 1,4-Dichlorobenzene	7.787	146	1110518	43.660	ng		99
14) 1,2-Dichlorobenzene	8.104	146	1056435	42.997	ng		99
15) Benzyl Alcohol	7.998	79	729976	43.202	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.275	45	1110403	44.352	ng		99
17) 2-Methylphenol	8.210	107	698651	42.996	ng		99
18) Hexachloroethane	8.828	117	399371	44.169	ng		98
19) n-Nitroso-di-n-propyla...	8.563	70	598312	38.288	ng		99
20) 3+4-Methylphenols	8.539	107	929313	42.350	ng		98
22) Acetophenone	8.575	105	1305356	46.657	ng	#	98
24) Nitrobenzene	8.951	77	942517	47.731	ng		97
25) Isophorone	9.481	82	1687587	43.352	ng		98
26) 2-Nitrophenol	9.663	139	465611	46.156	ng		97
27) 2,4-Dimethylphenol	9.733	122	749898	44.825	ng		98
28) bis(2-Chloroethoxy)met...	9.957	93	1082910	45.008	ng		100
29) 2,4-Dichlorophenol	10.210	162	843978	45.032	ng		100
30) 1,2,4-Trichlorobenzene	10.410	180	1032540	45.219	ng		100
31) Naphthalene	10.592	128	2566661	45.037	ng		100
32) Benzoic acid	9.910	122	450544	42.109	ng		99
33) 4-Chloroaniline	10.716	127	427099	18.284	ng		99
34) Hexachlorobutadiene	10.880	225	660379	45.561	ng		99
35) Caprolactam	11.510	113	210388	38.500	ng		87
36) 4-Chloro-3-methylphenol	11.851	107	726282	41.945	ng		98
37) 2-Methylnaphthalene	12.210	142	1639055	42.898	ng		99
38) 1-Methylnaphthalene	12.427	142	1716193	42.443	ng		99
40) 1,2,4,5-Tetrachloroben...	12.580	216	1141673	49.630	ng		99
41) Hexachlorocyclopentadiene	12.563	237	1541222	109.633	ng		99
43) 2,4,6-Trichlorophenol	12.833	196	691076	47.365	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

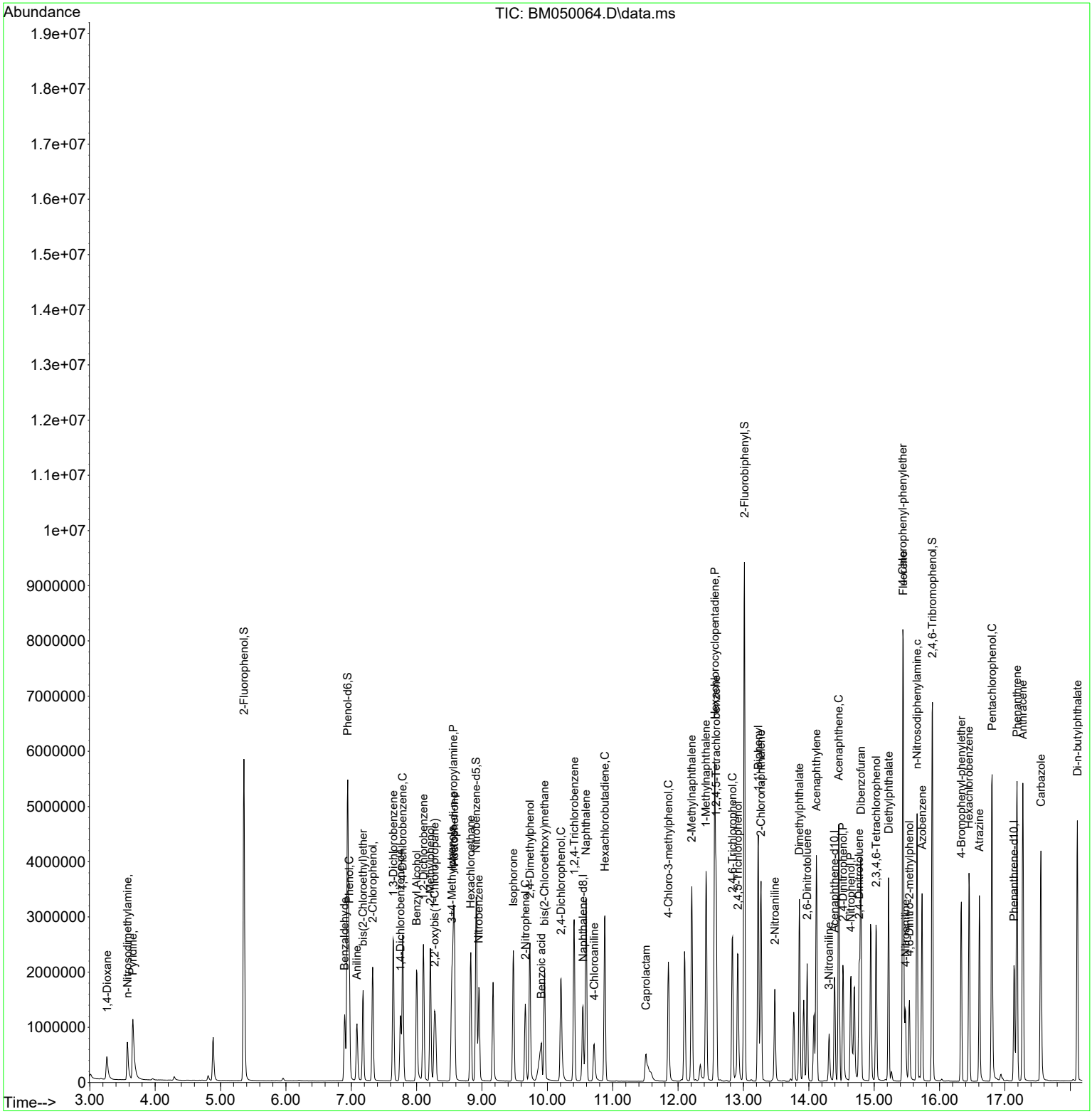
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.916	196	737586	46.880	ng	98
46) 1,1'-Biphenyl	13.227	154	2329469	47.158	ng	99
47) 2-Chloronaphthalene	13.269	162	1832486	46.840	ng	100
48) 2-Nitroaniline	13.480	65	446033	48.577	ng	95
49) Acenaphthylene	14.116	152	2817647	45.679	ng	99
50) Dimethylphthalate	13.857	163	2112431	43.498	ng	100
51) 2,6-Dinitrotoluene	13.974	165	450148	44.769	ng	94
52) Acenaphthene	14.457	154	1642526	46.003	ng	100
53) 3-Nitroaniline	14.310	138	231684	24.135	ng	96
54) 2,4-Dinitrophenol	14.521	184	552700	85.470	ng	96
55) Dibenzofuran	14.798	168	2676911	45.062	ng	100
56) 4-Nitrophenol	14.645	139	707032	89.936	ng	95
57) 2,4-Dinitrotoluene	14.768	165	637054	45.852	ng	96
58) Fluorene	15.445	166	2269556	46.675	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.033	232	608729	44.697	ng	99
60) Diethylphthalate	15.221	149	1964047	42.921	ng	100
61) 4-Chlorophenyl-phenyle...	15.439	204	1254179	46.960	ng	100
62) 4-Nitroaniline	15.480	138	399199	43.102	ng	97
63) Azobenzene	15.733	77	1802713	47.006	ng	99
65) 4,6-Dinitro-2-methylph...	15.539	198	354286	46.113	ng	96
66) n-Nitrosodiphenylamine	15.657	169	1798532	47.719	ng	99
67) 4-Bromophenyl-phenylether	16.333	248	695088	46.831	ng	97
68) Hexachlorobenzene	16.451	284	797047	46.587	ng	100
69) Atrazine	16.609	200	629300	46.289	ng	100
70) Pentachlorophenol	16.804	266	1076855	111.818	ng	99
71) Phenanthrene	17.186	178	3261083	47.108	ng	100
72) Anthracene	17.274	178	3324709	47.458	ng	100
73) Carbazole	17.551	167	2833553	46.612	ng	100
74) Di-n-butylphthalate	18.109	149	3296858	45.540	ng	100
75) Fluoranthene	19.203	202	3901183	48.000	ng	99
77) Benzidine	19.392	184	1303939	30.111	ng	100
78) Pyrene	19.568	202	4023852	47.002	ng	100
80) Butylbenzylphthalate	20.462	149	1409106	43.946	ng	91
81) Benzo(a)anthracene	21.368	228	3955177	47.112	ng	100
82) 3,3'-Dichlorobenzidine	21.292	252	796508	24.784	ng	100
83) Chrysene	21.427	228	3605282	46.400	ng	99
84) Bis(2-ethylhexyl)phtha...	21.286	149	2099844	43.844	ng	99
85) Di-n-octyl phthalate	22.409	149	3361210	42.556	ng	99
87) Indeno(1,2,3-cd)pyrene	27.756	276	3980042	48.344	ng	99
88) Benzo(b)fluoranthene	23.433	252	3519712	48.984	ng	100
89) Benzo(k)fluoranthene	23.491	252	3516759	48.385	ng	100
90) Benzo(a)pyrene	24.233	252	3256786	48.393	ng	99
91) Dibenzo(a,h)anthracene	27.797	278	3276826	48.827	ng	99
92) Benzo(g,h,i)perylene	28.797	276	3068716	47.762	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

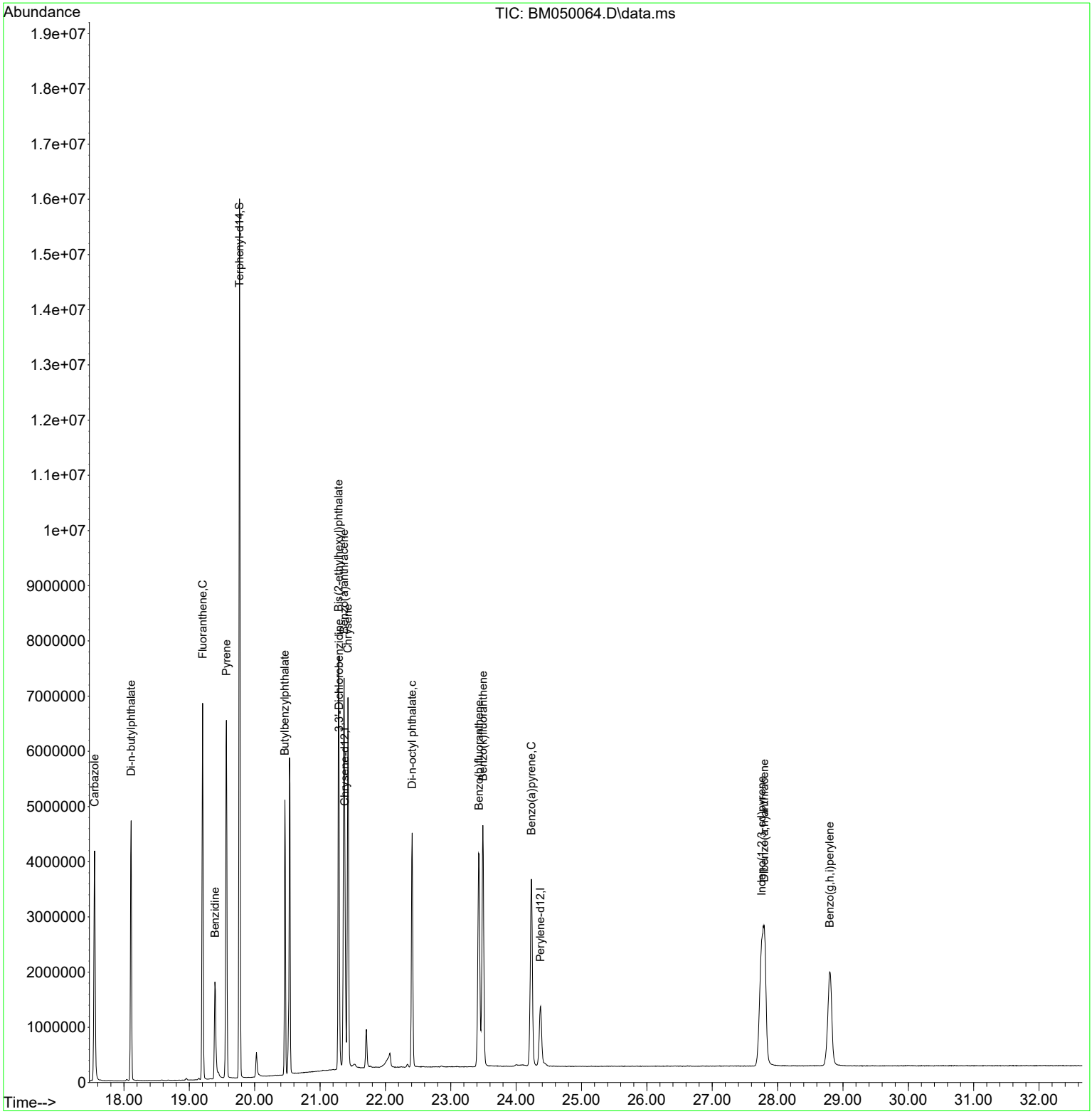
Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



Sample Results: **BF142252.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142252.D
Acq On : 01 May 2025 11:13
Operator : RC/JU
Sample : PB167798BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	225762	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	889454	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	464234	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	800889	20.000	ng	0.00
76) Chrysene-d12	14.074	240	447227	20.000	ng	0.00
86) Perylene-d12	15.563	264	448663	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.534	112	1573800	111.332	ng	0.02
7) Phenol-d6	6.528	99	1923984	112.709	ng	0.00
23) Nitrobenzene-d5	7.469	82	1064921	78.658	ng	0.00
42) 2,4,6-Tribromophenol	10.739	330	553053	130.679	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	2279117	69.221	ng	0.00
79) Terphenyl-d14	13.022	244	2260338	73.507	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.799	88	214857	34.032	ng	99
3) Pyridine	3.546	79	612102	37.305	ng	99
4) n-Nitrosodimethylamine	3.499	42	354189	41.713	ng	99
6) Aniline	6.569	93	595232	24.635	ng	99
8) 2-Chlorophenol	6.693	128	621899	42.575	ng	100
9) Benzaldehyde	6.457	77	303059	25.401	ng	99
10) Phenol	6.546	94	757157m	41.200	ng	
11) bis(2-Chloroethyl)ether	6.646	93	582688	40.916	ng	100
12) 1,3-Dichlorobenzene	6.851	146	670657	40.585	ng	100
13) 1,4-Dichlorobenzene	6.928	146	672151	40.372	ng	99
14) 1,2-Dichlorobenzene	7.081	146	647246	40.722	ng	100
15) Benzyl Alcohol	7.045	79	513138	42.384	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1068891	41.566	ng	99
17) 2-Methylphenol	7.151	107	501113	41.877	ng	98
18) Hexachloroethane	7.422	117	228628	41.957	ng	96
19) n-Nitroso-di-n-propyla...	7.322	70	430394	40.801	ng	99
20) 3+4-Methylphenols	7.304	107	621160	41.509	ng	94
22) Acetophenone	7.316	105	826074	40.145	ng	100
24) Nitrobenzene	7.493	77	591218	44.506	ng	100
25) Isophorone	7.728	82	1178770	41.486	ng	100
26) 2-Nitrophenol	7.804	139	225734	41.847	ng	99
27) 2,4-Dimethylphenol	7.840	122	602922	42.086	ng	99
28) bis(2-Chloroethoxy)met...	7.940	93	734626	40.995	ng	99
29) 2,4-Dichlorophenol	8.040	162	512350	42.777	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	547350	40.953	ng	100
31) Naphthalene	8.216	128	1792007	40.399	ng	100
32) Benzoic acid	7.945	122	282191m	42.883	ng	
33) 4-Chloroaniline	8.251	127	121514	6.579	ng	99
34) Hexachlorobutadiene	8.328	225	323243	41.453	ng	99
35) Caprolactam	8.622	113	164045m	45.568	ng	
36) 4-Chloro-3-methylphenol	8.734	107	532722	43.315	ng	98
37) 2-Methylnaphthalene	8.904	142	1105725	40.544	ng	99
38) 1-Methylnaphthalene	9.004	142	1159466	41.039	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	523019	40.032	ng	99
41) Hexachlorocyclopentadiene	9.057	237	659241	88.906	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	354948	43.843	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142252.D
Acq On : 01 May 2025 11:13
Operator : RC/JU
Sample : PB167798BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	386474	45.404	ng		98
46) 1,1'-Biphenyl	9.369	154	1475397	40.881	ng		100
47) 2-Chloronaphthalene	9.392	162	1092692	40.695	ng		99
48) 2-Nitroaniline	9.487	65	301543	43.124	ng		99
49) Acenaphthylene	9.810	152	1868315	41.234	ng		100
50) Dimethylphthalate	9.669	163	1278203	43.038	ng		100
51) 2,6-Dinitrotoluene	9.728	165	247512	43.832	ng		98
52) Acenaphthene	9.981	154	1161277	43.895	ng		100
53) 3-Nitroaniline	9.892	138	120832	19.467	ng		97
54) 2,4-Dinitrophenol	9.998	184	173600	84.535	ng	#	23
55) Dibenzofuran	10.157	168	1619144	40.827	ng		100
56) 4-Nitrophenol	10.045	139	471700	101.045	ng		98
57) 2,4-Dinitrotoluene	10.134	165	334335	48.433	ng		99
58) Fluorene	10.498	166	1240639	41.143	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.269	232	316821	44.934	ng		99
60) Diethylphthalate	10.369	149	1280368	43.657	ng		99
61) 4-Chlorophenyl-phenyle...	10.486	204	583485	40.745	ng		99
62) 4-Nitroaniline	10.510	138	278877	44.489	ng		99
63) Azobenzene	10.651	77	1225283	42.308	ng		100
65) 4,6-Dinitro-2-methylph...	10.539	198	114521	44.424	ng		95
66) n-Nitrosodiphenylamine	10.610	169	1120137	40.934	ng		100
67) 4-Bromophenyl-phenylether	10.981	248	374442	41.981	ng		99
68) Hexachlorobenzene	11.045	284	416999	41.744	ng		99
69) Atrazine	11.133	200	327822	45.449	ng		98
70) Pentachlorophenol	11.233	266	491588	93.152	ng		98
71) Phenanthrene	11.463	178	1729683	39.983	ng		99
72) Anthracene	11.510	178	1809920	40.920	ng		100
73) Carbazole	11.663	167	1673738	41.482	ng		100
74) Di-n-butylphthalate	11.998	149	1832830	45.166	ng		100
75) Fluoranthene	12.645	202	1790811	41.876	ng		99
77) Benzidine	12.769	184	427420	22.492	ng		98
78) Pyrene	12.875	202	1769704	42.897	ng		99
80) Butylbenzylphthalate	13.498	149	508489	45.305	ng		98
81) Benzo(a)anthracene	14.063	228	1236291	41.178	ng		100
82) 3,3'-Dichlorobenzidine	14.027	252	102802	11.657	ng		99
83) Chrysene	14.104	228	1191462	43.597	ng		100
84) Bis(2-ethylhexyl)phtha...	14.057	149	629446	40.842	ng		100
85) Di-n-octyl phthalate	14.674	149	1146731	41.045	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1385292	42.153	ng		100
88) Benzo(b)fluoranthene	15.127	252	1230162	44.141	ng		99
89) Benzo(k)fluoranthene	15.157	252	1011794	39.692	ng		99
90) Benzo(a)pyrene	15.504	252	1085464	42.542	ng		100
91) Dibenzo(a,h)anthracene	17.098	278	1127475	42.272	ng		100
92) Benzo(g,h,i)perylene	17.539	276	1126050	41.996	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

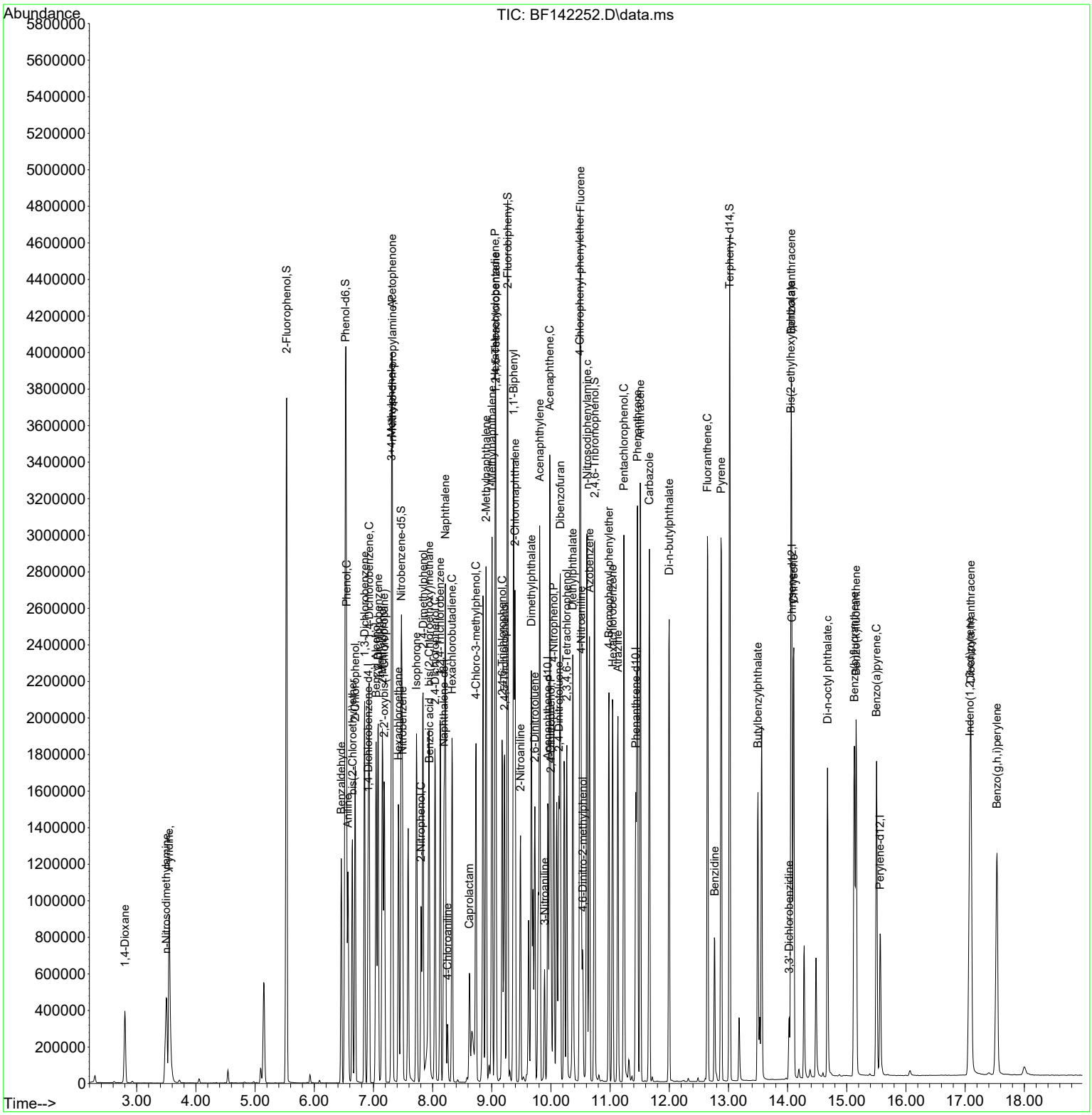
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142252.D
Acq On : 01 May 2025 11:13
Operator : RC/JU
Sample : PB167798BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142253.D
Acq On : 01 May 2025 11:42
Operator : RC/JU
Sample : PB167798BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 12:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	228844	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	895505	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	472033	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	796412	20.000	ng	0.00
76) Chrysene-d12	14.074	240	445019	20.000	ng	0.00
86) Perylene-d12	15.563	264	441873	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1544251	107.770	ng	0.01
7) Phenol-d6	6.528	99	1910888	110.435	ng	0.00
23) Nitrobenzene-d5	7.469	82	1094804	80.319	ng	0.00
42) 2,4,6-Tribromophenol	10.739	330	558926	129.885	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	2284570	68.240	ng	0.00
79) Terphenyl-d14	13.022	244	2257765	73.788	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.799	88	214363	33.497	ng	99
3) Pyridine	3.546	79	604462	36.343	ng	100
4) n-Nitrosodimethylamine	3.499	42	350276	40.697	ng	99
6) Aniline	6.569	93	664275	27.123	ng	99
8) 2-Chlorophenol	6.693	128	628695	42.460	ng	99
9) Benzaldehyde	6.457	77	294023	24.312	ng	99
10) Phenol	6.545	94	750967m	40.313	ng	
11) bis(2-Chloroethyl)ether	6.645	93	580502	40.214	ng	99
12) 1,3-Dichlorobenzene	6.851	146	662064	39.525	ng	100
13) 1,4-Dichlorobenzene	6.928	146	661045	39.170	ng	100
14) 1,2-Dichlorobenzene	7.081	146	646447	40.124	ng	99
15) Benzyl Alcohol	7.045	79	522603	42.584	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1068395	40.987	ng	99
17) 2-Methylphenol	7.151	107	506643	41.769	ng	99
18) Hexachloroethane	7.422	117	227904	41.260	ng	97
19) n-Nitroso-di-n-propyla...	7.322	70	433820	40.572	ng	99
20) 3+4-Methylphenols	7.304	107	625731	41.251	ng	94
22) Acetophenone	7.316	105	822300	39.692	ng	100
24) Nitrobenzene	7.492	77	605776	45.294	ng	98
25) Isophorone	7.728	82	1175652	41.096	ng	100
26) 2-Nitrophenol	7.804	139	258365	46.327	ng	98
27) 2,4-Dimethylphenol	7.840	122	612593	42.472	ng	99
28) bis(2-Chloroethoxy)met...	7.940	93	740492	41.043	ng	99
29) 2,4-Dichlorophenol	8.040	162	521645	43.259	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	546079	40.582	ng	99
31) Naphthalene	8.216	128	1778327	39.820	ng	100
32) Benzoic acid	7.951	122	331051m	48.183	ng	
33) 4-Chloroaniline	8.251	127	168046	9.036	ng	99
34) Hexachlorobutadiene	8.328	225	322773	41.113	ng	99
35) Caprolactam	8.622	113	168204m	46.407	ng	
36) 4-Chloro-3-methylphenol	8.734	107	537952	43.445	ng	98
37) 2-Methylnaphthalene	8.904	142	1104930	40.241	ng	100
38) 1-Methylnaphthalene	9.004	142	1150453	40.445	ng	100
40) 1,2,4,5-Tetrachloroben...	9.069	216	524934	39.515	ng	99
41) Hexachlorocyclopentadiene	9.057	237	671988	89.128	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	372452	45.244	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142253.D
Acq On : 01 May 2025 11:42
Operator : RC/JU
Sample : PB167798BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 12:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	387830	44.810	ng		98
46) 1,1'-Biphenyl	9.369	154	1480347	40.340	ng		100
47) 2-Chloronaphthalene	9.392	162	1105087	40.476	ng		99
48) 2-Nitroaniline	9.486	65	324508	45.363	ng		98
49) Acenaphthylene	9.810	152	1879452	40.794	ng		100
50) Dimethylphthalate	9.669	163	1290455	42.733	ng		100
51) 2,6-Dinitrotoluene	9.728	165	262585	45.558	ng		100
52) Acenaphthene	9.981	154	1183957	44.012	ng		99
53) 3-Nitroaniline	9.892	138	144830	22.378	ng		98
54) 2,4-Dinitrophenol	9.998	184	199878	91.584	ng	#	17
55) Dibenzofuran	10.157	168	1639725	40.663	ng		100
56) 4-Nitrophenol	10.045	139	489174	103.057	ng		98
57) 2,4-Dinitrotoluene	10.134	165	346883	49.318	ng		99
58) Fluorene	10.498	166	1248146	40.708	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.269	232	331140	46.189	ng		100
60) Diethylphthalate	10.369	149	1287411	43.172	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	601502	41.309	ng		99
62) 4-Nitroaniline	10.510	138	288950	45.282	ng		99
63) Azobenzene	10.651	77	1233889	41.902	ng		100
65) 4,6-Dinitro-2-methylph...	10.539	198	128388	48.731	ng		94
66) n-Nitrosodiphenylamine	10.610	169	1124320	41.318	ng		99
67) 4-Bromophenyl-phenylether	10.980	248	376385	42.436	ng		99
68) Hexachlorobenzene	11.045	284	419316	42.212	ng		99
69) Atrazine	11.133	200	337532	47.058	ng		99
70) Pentachlorophenol	11.233	266	496901	94.688	ng		98
71) Phenanthrene	11.463	178	1750559	40.693	ng		99
72) Anthracene	11.510	178	1816790	41.306	ng		100
73) Carbazole	11.663	167	1689119	42.099	ng		100
74) Di-n-butylphthalate	11.998	149	1825873	45.248	ng		100
75) Fluoranthene	12.645	202	1777492	41.799	ng		99
77) Benzidine	12.769	184	483783	25.584	ng		98
78) Pyrene	12.880	202	1763648	42.962	ng		99
80) Butylbenzylphthalate	13.498	149	510891	45.709	ng		99
81) Benzo(a)anthracene	14.063	228	1233563	41.291	ng		100
82) 3,3'-Dichlorobenzidine	14.027	252	124446	14.182	ng		99
83) Chrysene	14.104	228	1170165	43.030	ng		100
84) Bis(2-ethylhexyl)phtha...	14.057	149	622700	40.625	ng		100
85) Di-n-octyl phthalate	14.674	149	1156711	41.525	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1384791	42.786	ng		100
88) Benzo(b)fluoranthene	15.127	252	1077406	39.254	ng		99
89) Benzo(k)fluoranthene	15.157	252	1118010	44.533	ng		99
90) Benzo(a)pyrene	15.504	252	1070836	42.614	ng		100
91) Dibenzo(a,h)anthracene	17.098	278	1128281	42.952	ng		99
92) Benzo(g,h,i)perylene	17.533	276	1137552	43.077	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

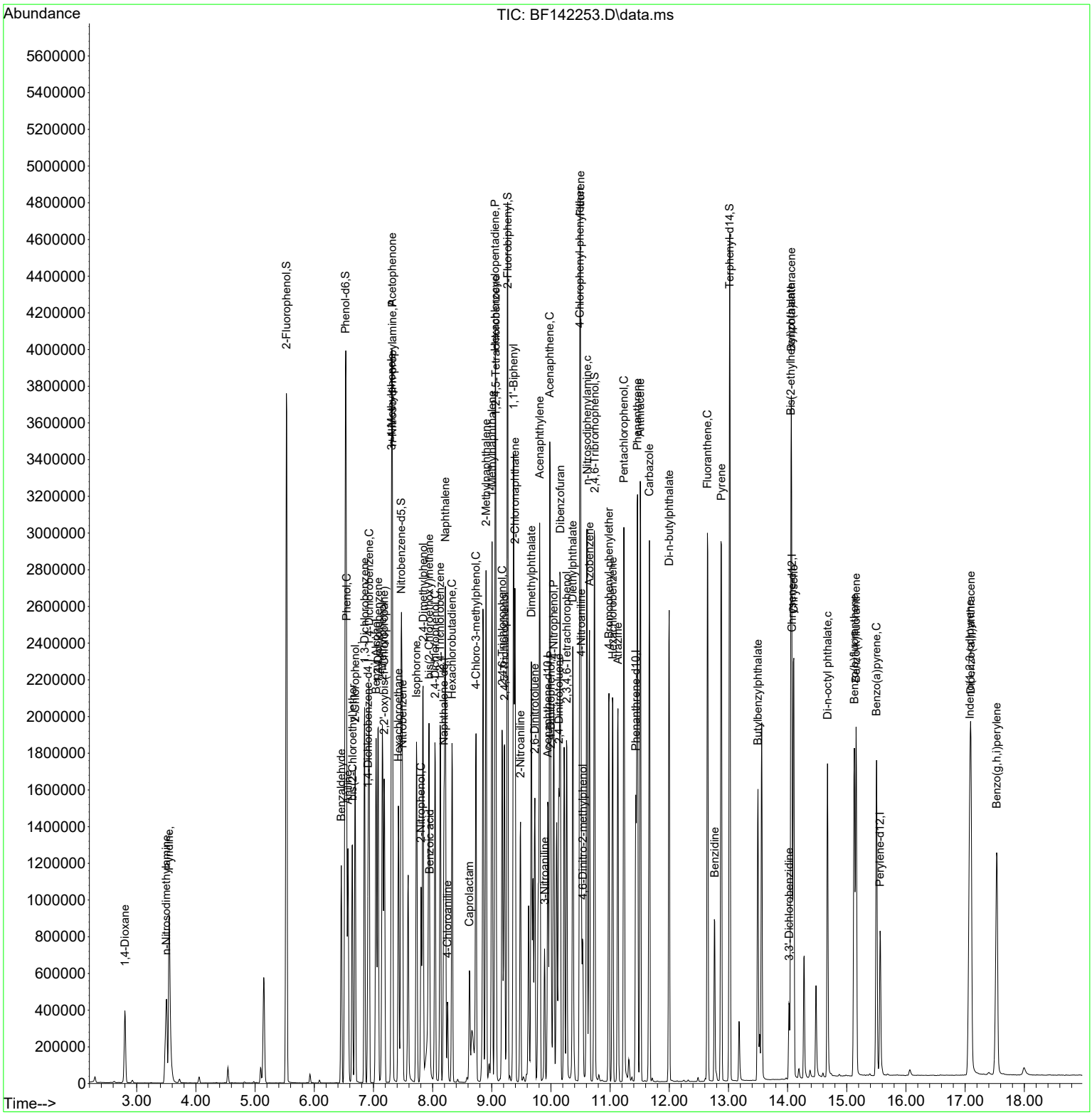
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Data File : BF142253.D
Acq On : 01 May 2025 11:42
Operator : RC/JU
Sample : PB167798BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 12:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142269.D
Acq On : 01 May 2025 19:24
Operator : RC/JU
Sample : Q1901-02MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 01:08:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	207729	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	776941	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	359640	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	495470	20.000	ng	0.00
76) Chrysene-d12	14.074	240	427878	20.000	ng	0.00
86) Perylene-d12	15.562	264	472653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1135655	87.311	ng	0.00
7) Phenol-d6	6.528	99	1416560	90.188	ng	0.00
23) Nitrobenzene-d5	7.469	82	805120	68.080	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	297829	90.840	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1610323	63.132	ng	0.00
79) Terphenyl-d14	13.015	244	1290400	43.862	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.757	88	227396	39.145	ng	99
3) Pyridine	3.516	79	610565	40.441	ng	100
4) n-Nitrosodimethylamine	3.469	42	354637	45.391	ng	100
6) Aniline	6.569	93	670525	30.161	ng	100
8) 2-Chlorophenol	6.692	128	603690	44.916	ng	100
9) Benzaldehyde	6.457	77	303867	27.680	ng	99
10) Phenol	6.539	94	746973m	44.175	ng	
11) bis(2-Chloroethyl)ether	6.639	93	585375	44.673	ng	98
12) 1,3-Dichlorobenzene	6.851	146	664859	43.727	ng	99
13) 1,4-Dichlorobenzene	6.928	146	668597	43.645	ng	100
14) 1,2-Dichlorobenzene	7.081	146	646554	44.210	ng	100
15) Benzyl Alcohol	7.045	79	489425	43.935	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1075078	45.436	ng	99
17) 2-Methylphenol	7.151	107	477055	43.327	ng	99
18) Hexachloroethane	7.422	117	236235	47.116	ng	97
19) n-Nitroso-di-n-propyla...	7.316	70	416439	42.906	ng	98
20) 3+4-Methylphenols	7.304	107	589920	42.844	ng	92
22) Acetophenone	7.316	105	790127	43.959	ng	98
24) Nitrobenzene	7.486	77	591434	50.970	ng	100
25) Isophorone	7.728	82	1114078	44.887	ng	99
26) 2-Nitrophenol	7.804	139	273106	54.190	ng	97
27) 2,4-Dimethylphenol	7.833	122	550527	43.994	ng	100
28) bis(2-Chloroethoxy)met...	7.933	93	701365	44.807	ng	99
29) 2,4-Dichlorophenol	8.039	162	476870	45.581	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	532603	45.620	ng	100
31) Naphthalene	8.210	128	1700955	43.900	ng	100
32) Benzoic acid	7.933	122	283194	47.659	ng	98
33) 4-Chloroaniline	8.251	127	170132	10.545	ng	100
34) Hexachlorobutadiene	8.328	225	319589	46.920	ng	99
35) Caprolactam	8.622	113	132868m	42.252	ng	
36) 4-Chloro-3-methylphenol	8.728	107	452691	42.138	ng	99
37) 2-Methylnaphthalene	8.904	142	1023582	42.967	ng	100
38) 1-Methylnaphthalene	9.004	142	1068100	43.280	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	495043	48.910	ng	99
41) Hexachlorocyclopentadiene	9.057	237	577255	100.490	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	321539	51.266	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142269.D
Acq On : 01 May 2025 19:24
Operator : RC/JU
Sample : Q1901-02MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 01:08:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	318776	48.342	ng		99
46) 1,1'-Biphenyl	9.363	154	1334117	47.717	ng		99
47) 2-Chloronaphthalene	9.392	162	976038	46.922	ng		99
48) 2-Nitroaniline	9.480	65	259849	47.433	ng		99
49) Acenaphthylene	9.804	152	1594521	45.426	ng		100
50) Dimethylphthalate	9.663	163	1066261	46.343	ng		100
51) 2,6-Dinitrotoluene	9.722	165	215101	48.680	ng		99
52) Acenaphthene	9.980	154	982506	47.938	ng		98
53) 3-Nitroaniline	9.886	138	127102	25.292	ng		98
54) 2,4-Dinitrophenol	9.992	184	128668	82.147	ng	#	53
55) Dibenzofuran	10.151	168	1363907	44.394	ng		99
56) 4-Nitrophenol	10.039	139	331460	91.654	ng		98
57) 2,4-Dinitrotoluene	10.127	165	257086	48.111	ng		95
58) Fluorene	10.492	166	997907	42.717	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	246538	45.135	ng		99
60) Diethylphthalate	10.363	149	1031674	45.408	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	491200	44.277	ng		97
62) 4-Nitroaniline	10.504	138	193314	40.097	ng		95
63) Azobenzene	10.645	77	1084746	48.349	ng		95
65) 4,6-Dinitro-2-methylph...	10.527	198	87116	52.188	ng		97
66) n-Nitrosodiphenylamine	10.604	169	868383	51.295	ng		100
67) 4-Bromophenyl-phenylether	10.974	248	294375	53.349	ng		99
68) Hexachlorobenzene	11.039	284	307669	49.785	ng		99
69) Atrazine	11.127	200	242733	54.396	ng		99
70) Pentachlorophenol	11.227	266	331283	101.471	ng		98
71) Phenanthrene	11.457	178	1297633	48.485	ng		99
72) Anthracene	11.504	178	1269418	46.391	ng		99
73) Carbazole	11.657	167	1127973	45.188	ng		99
74) Di-n-butylphthalate	11.992	149	1427936	56.880	ng		100
75) Fluoranthene	12.645	202	1336936	50.534	ng		99
77) Benzidine	12.763	184	486096	26.736	ng		99
78) Pyrene	12.874	202	1363266	34.539	ng		100
80) Butylbenzylphthalate	13.492	149	571179	52.545	ng		100
81) Benzo(a)anthracene	14.062	228	1336806	46.539	ng		100
82) 3,3'-Dichlorobenzidine	14.021	252	271966	32.235	ng		100
83) Chrysene	14.098	228	1219993	46.660	ng		99
84) Bis(2-ethylhexyl)phtha...	14.051	149	801117	53.190	ng		99
85) Di-n-octyl phthalate	14.668	149	1516655	54.420	ng		99
87) Indeno(1,2,3-cd)pyrene	17.068	276	1171487	33.838	ng		100
88) Benzo(b)fluoranthene	15.121	252	1455180	49.565	ng		100
89) Benzo(k)fluoranthene	15.156	252	1286491	47.906	ng		99
90) Benzo(a)pyrene	15.498	252	1294646	48.165	ng		100
91) Dibenzo(a,h)anthracene	17.092	278	967006	34.415	ng		98
92) Benzo(g,h,i)perylene	17.521	276	881265	31.198	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

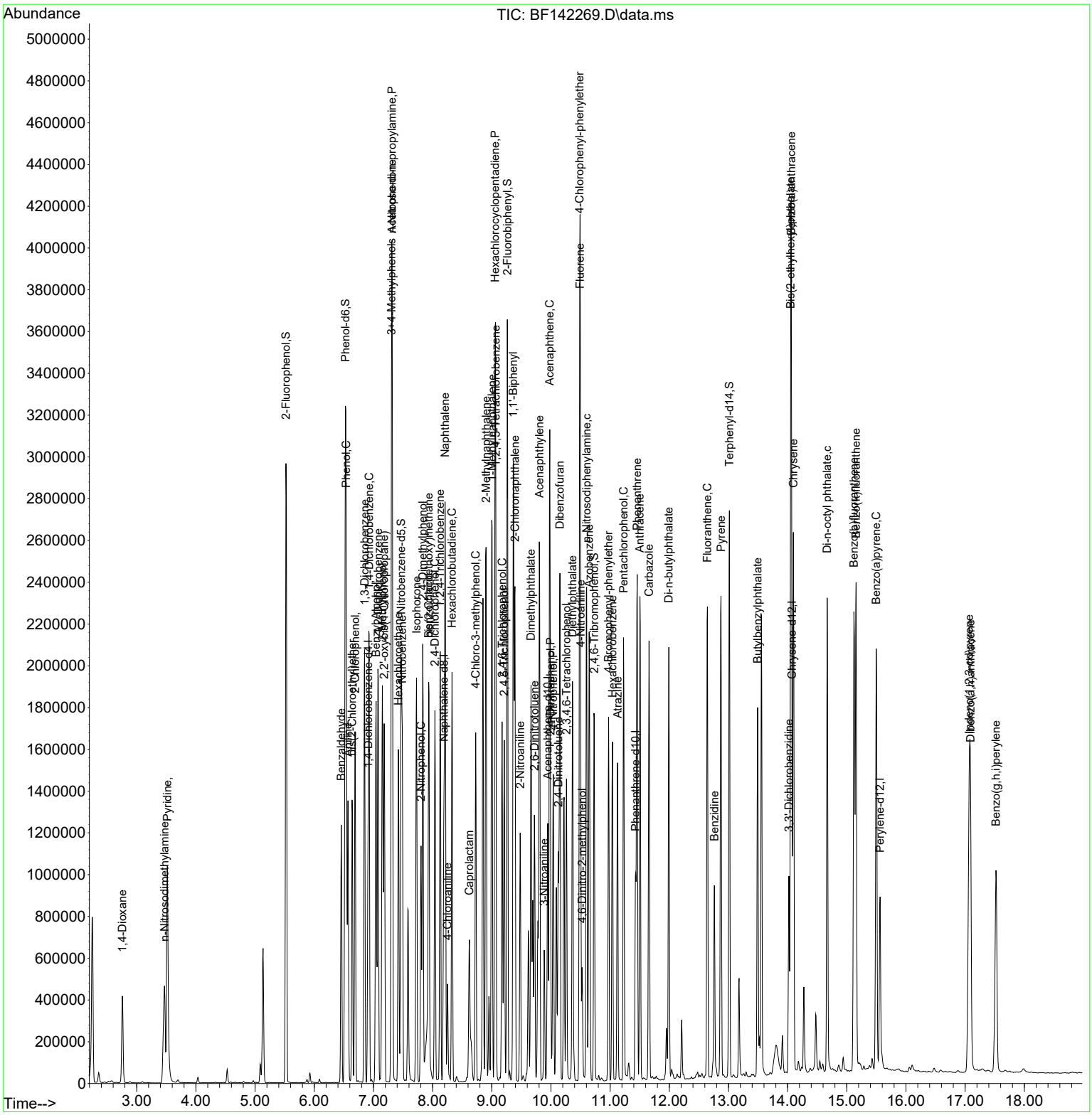
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142269.D
Acq On : 01 May 2025 19:24
Operator : RC/JU
Sample : Q1901-02MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 01:08:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142270.D
Acq On : 01 May 2025 19:52
Operator : RC/JU
Sample : Q1901-02MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 01:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.910	152	204570	20.000	ng		0.00
21) Naphthalene-d8	8.187	136	762454	20.000	ng		0.00
39) Acenaphthene-d10	9.945	164	351872	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	496148	20.000	ng		0.00
76) Chrysene-d12	14.069	240	429879	20.000	ng		0.00
86) Perylene-d12	15.557	264	473333	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.522	112	1098118	85.729	ng		0.00
7) Phenol-d6	6.528	99	1349184	87.225	ng		0.00
23) Nitrobenzene-d5	7.469	82	776525	66.910	ng		0.00
42) 2,4,6-Tribromophenol	10.733	330	286287	89.247	ng		0.00
45) 2-Fluorobiphenyl	9.263	172	1541618	61.773	ng		0.00
79) Terphenyl-d14	13.016	244	1244500	42.105	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.758	88	213600	37.338	ng		98
3) Pyridine	3.516	79	586468	39.445	ng		99
4) n-Nitrosodimethylamine	3.463	42	336346	43.715	ng		99
6) Aniline	6.569	93	640860	29.271	ng		99
8) 2-Chlorophenol	6.687	128	576726	43.572	ng		98
9) Benzaldehyde	6.457	77	286273	26.480	ng		99
10) Phenol	6.540	94	699472m	42.004	ng		
11) bis(2-Chloroethyl)ether	6.640	93	555314	43.034	ng		99
12) 1,3-Dichlorobenzene	6.851	146	628881	41.999	ng		99
13) 1,4-Dichlorobenzene	6.928	146	637600	42.264	ng		99
14) 1,2-Dichlorobenzene	7.075	146	614756	42.685	ng		99
15) Benzyl Alcohol	7.045	79	471490	42.978	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1026846	44.067	ng		99
17) 2-Methylphenol	7.151	107	446076	41.139	ng		99
18) Hexachloroethane	7.422	117	224222	45.411	ng		99
19) n-Nitroso-di-n-propyla...	7.316	70	396481	41.480	ng		98
20) 3+4-Methylphenols	7.304	107	559745	41.280	ng	#	90
22) Acetophenone	7.316	105	751886	42.626	ng	#	97
24) Nitrobenzene	7.487	77	567935	49.874	ng		100
25) Isophorone	7.728	82	1049987	43.109	ng		99
26) 2-Nitrophenol	7.804	139	270273	54.552	ng		98
27) 2,4-Dimethylphenol	7.834	122	530664	43.212	ng		99
28) bis(2-Chloroethoxy)met...	7.934	93	677074	44.077	ng		99
29) 2,4-Dichlorophenol	8.040	162	450996	43.927	ng		99
30) 1,2,4-Trichlorobenzene	8.128	180	505370	44.110	ng		100
31) Naphthalene	8.210	128	1631154	42.898	ng		100
32) Benzoic acid	7.934	122	285536	48.669	ng		99
33) 4-Chloroaniline	8.251	127	188949	11.933	ng		99
34) Hexachlorobutadiene	8.328	225	308153	46.100	ng		99
35) Caprolactam	8.616	113	124087m	40.210	ng		
36) 4-Chloro-3-methylphenol	8.728	107	428130	40.609	ng		98
37) 2-Methylnaphthalene	8.898	142	977255	41.802	ng		99
38) 1-Methylnaphthalene	8.998	142	999740	41.279	ng		100
40) 1,2,4,5-Tetrachloroben...	9.069	216	471907	47.654	ng		99
41) Hexachlorocyclopentadiene	9.057	237	554087	98.586	ng		100
43) 2,4,6-Trichlorophenol	9.175	196	305921	49.853	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142270.D
Acq On : 01 May 2025 19:52
Operator : RC/JU
Sample : Q1901-02MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 01:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	297440	46.102	ng		99
46) 1,1'-Biphenyl	9.363	154	1272788	46.529	ng		99
47) 2-Chloronaphthalene	9.392	162	925740	45.486	ng		99
48) 2-Nitroaniline	9.481	65	252309	47.110	ng		98
49) Acenaphthylene	9.804	152	1503902	43.790	ng		100
50) Dimethylphthalate	9.663	163	1015217	45.099	ng		100
51) 2,6-Dinitrotoluene	9.722	165	204319	47.378	ng		98
52) Acenaphthene	9.981	154	931022	46.429	ng		98
53) 3-Nitroaniline	9.886	138	121932	24.861	ng	#	96
54) 2,4-Dinitrophenol	9.992	184	131189	84.371	ng	#	41
55) Dibenzofuran	10.151	168	1290218	42.922	ng		99
56) 4-Nitrophenol	10.039	139	316946	89.575	ng		99
57) 2,4-Dinitrotoluene	10.122	165	249724	47.801	ng		99
58) Fluorene	10.492	166	945333	41.360	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	232642	43.531	ng		99
60) Diethylphthalate	10.363	149	980867	44.125	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	467320	43.054	ng		97
62) 4-Nitroaniline	10.504	138	182663	38.819	ng		95
63) Azobenzene	10.645	77	1027831	46.824	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	85960	51.580	ng		96
66) n-Nitrosodiphenylamine	10.604	169	816949	48.191	ng		99
67) 4-Bromophenyl-phenylether	10.975	248	278827	50.462	ng		99
68) Hexachlorobenzene	11.039	284	292279	47.230	ng		99
69) Atrazine	11.128	200	232637	52.062	ng		99
70) Pentachlorophenol	11.228	266	317591	97.144	ng		98
71) Phenanthrene	11.457	178	1239899	46.265	ng		100
72) Anthracene	11.504	178	1211937	44.230	ng		99
73) Carbazole	11.657	167	1076493	43.067	ng		99
74) Di-n-butylphthalate	11.992	149	1373313	54.629	ng		100
75) Fluoranthene	12.645	202	1282408	48.407	ng		99
77) Benzidine	12.763	184	472493	25.867	ng		99
78) Pyrene	12.869	202	1332351	33.599	ng		99
80) Butylbenzylphthalate	13.492	149	544307	50.031	ng		99
81) Benzo(a)anthracene	14.063	228	1310994	45.428	ng		99
82) 3,3'-Dichlorobenzidine	14.022	252	285891	33.727	ng		99
83) Chrysene	14.098	228	1182323	45.008	ng		99
84) Bis(2-ethylhexyl)phtha...	14.051	149	774590	51.320	ng		100
85) Di-n-octyl phthalate	14.669	149	1467740	52.643	ng	#	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	1135807	32.760	ng		99
88) Benzo(b)fluoranthene	15.121	252	1429910	48.634	ng		100
89) Benzo(k)fluoranthene	15.157	252	1218152	45.297	ng		99
90) Benzo(a)pyrene	15.498	252	1262185	46.890	ng		100
91) Dibenzo(a,h)anthracene	17.086	278	932712	33.147	ng		99
92) Benzo(g,h,i)perylene	17.521	276	856464	30.277	ng		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **BF142270.D**

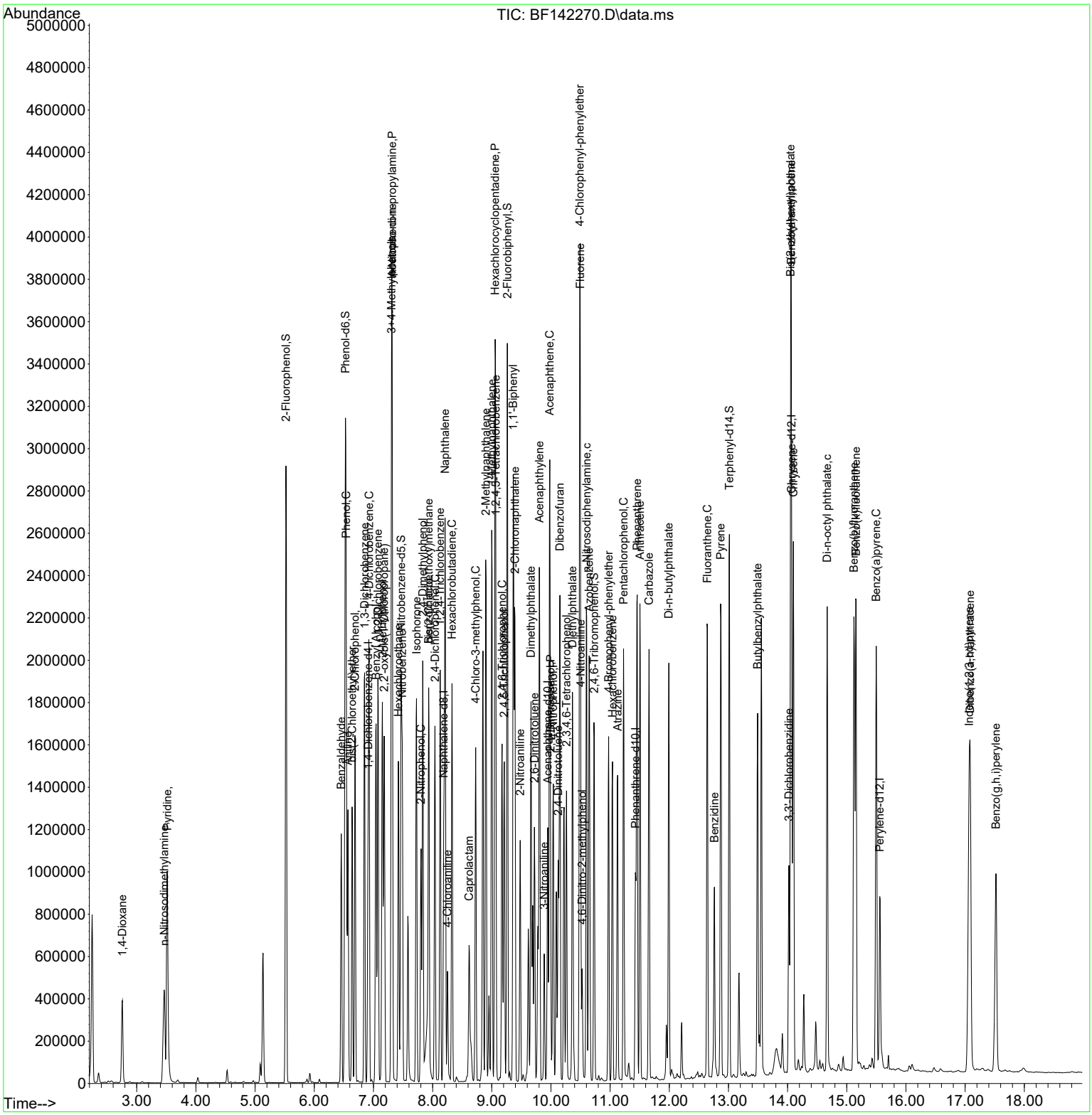
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142270.D
Acq On : 01 May 2025 19:52
Operator : RC/JU
Sample : Q1901-02MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 01:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



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

Manual Integration Report

Sequence:	BF043025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF142240.D	2,3,4,6-Tetrachlorophenol	Rahul	5/1/2025 11:26:17 AM	Jagrut	5/1/2025 1:17:43 PM	Peak Integrated by Software
SSTDICC020	BF142242.D	Benzoic acid	Rahul	5/1/2025 11:26:23 AM	Jagrut	5/1/2025 1:17:45 PM	Peak Integrated by Software
SSTDICCC040	BF142243.D	Benzoic acid	Rahul	5/1/2025 11:26:25 AM	Jagrut	5/1/2025 1:17:48 PM	Peak Integrated by Software
SSTDICC050	BF142244.D	Phenol	Rahul	5/1/2025 11:26:27 AM	Jagrut	5/1/2025 1:17:50 PM	Peak Integrated by Software
SSTDICC060	BF142245.D	Phenol	Rahul	5/1/2025 11:26:30 AM	Jagrut	5/1/2025 1:17:52 PM	Peak Integrated by Software
SSTDICC080	BF142246.D	Benzoic acid	Rahul	5/1/2025 11:26:33 AM	Jagrut	5/1/2025 1:17:55 PM	Peak Integrated by Software
SSTDICC080	BF142246.D	Phenol	Rahul	5/1/2025 11:26:33 AM	Jagrut	5/1/2025 1:17:55 PM	Peak Integrated by Software
SSTDICV040	BF142247.D	Benzoic acid	Rahul	5/1/2025 11:26:36 AM	Jagrut	5/1/2025 1:17:57 PM	Peak Integrated by Software
SSTDICV040	BF142247.D	Phenol	Rahul	5/1/2025 11:26:36 AM	Jagrut	5/1/2025 1:17:57 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf050125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142250.D	Benzoic acid	Rahul	5/2/2025 10:45:14 AM	Jagrut	5/2/2025 4:47:49 PM	Peak Integrated by Software
SSTDCCC040	BF142250.D	Phenol	Rahul	5/2/2025 10:45:14 AM	Jagrut	5/2/2025 4:47:49 PM	Peak Integrated by Software
PB167798BS	BF142252.D	Benzoic acid	Rahul	5/2/2025 10:45:18 AM	Jagrut	5/2/2025 4:47:51 PM	Peak Integrated by Software
PB167798BS	BF142252.D	Caprolactam	Rahul	5/2/2025 10:45:18 AM	Jagrut	5/2/2025 4:47:51 PM	Peak Integrated by Software
PB167798BS	BF142252.D	Phenol	Rahul	5/2/2025 10:45:18 AM	Jagrut	5/2/2025 4:47:51 PM	Peak Integrated by Software
PB167798BSD	BF142253.D	Benzoic acid	Rahul	5/2/2025 10:45:22 AM	Jagrut	5/2/2025 4:47:54 PM	Peak Integrated by Software
PB167798BSD	BF142253.D	Caprolactam	Rahul	5/2/2025 10:45:22 AM	Jagrut	5/2/2025 4:47:54 PM	Peak Integrated by Software
PB167798BSD	BF142253.D	Phenol	Rahul	5/2/2025 10:45:22 AM	Jagrut	5/2/2025 4:47:54 PM	Peak Integrated by Software
Q1901-02	BF142268.D	Benzo(b)fluoranthene	Rahul	5/2/2025 10:45:30 AM	Jagrut	5/2/2025 4:48:02 PM	Peak Integrated by Software
Q1901-02MS	BF142269.D	Caprolactam	Rahul	5/2/2025 10:45:34 AM	Jagrut	5/2/2025 4:48:05 PM	Peak Integrated by Software
Q1901-02MS	BF142269.D	Phenol	Rahul	5/2/2025 10:45:34 AM	Jagrut	5/2/2025 4:48:05 PM	Peak Integrated by Software
Q1901-02MSD	BF142270.D	Caprolactam	Rahul	5/2/2025 10:45:38 AM	Jagrut	5/2/2025 4:48:13 PM	Peak Integrated by Software
Q1901-02MSD	BF142270.D	Phenol	Rahul	5/2/2025 10:45:38 AM	Jagrut	5/2/2025 4:48:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf050125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	BM042825	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM050025.D	4-Nitroaniline	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC005	BM050025.D	Benzaldehyde	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC005	BM050025.D	Benzo(k)fluoranthene	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC005	BM050025.D	Caprolactam	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC010	BM050026.D	4-Nitroaniline	Rahul	4/29/2025 8:55:07 AM	Jagrut	4/29/2025 11:57:13 AM	Peak Integrated by Software
SSTDICC010	BM050026.D	Benzaldehyde	Rahul	4/29/2025 8:55:07 AM	Jagrut	4/29/2025 11:57:13 AM	Peak Integrated by Software
SSTDICC010	BM050026.D	Benzoic acid	Rahul	4/29/2025 8:55:07 AM	Jagrut	4/29/2025 11:57:13 AM	Peak Integrated by Software
SSTDICC020	BM050027.D	Benzoic acid	Rahul	4/29/2025 8:55:10 AM	Jagrut	4/29/2025 11:57:15 AM	Peak Integrated by Software
SSTDICV040	BM050032.D	Benzaldehyde	Rahul	4/29/2025 8:55:13 AM	Jagrut	4/29/2025 11:57:18 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bm050125	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-03	BM050074.D	Benzo(k)fluoranthene	Rahul	5/2/2025 10:54:03 AM	Jagrut	5/2/2025 4:56:48 PM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF043025

Review By	Rahul	Review On	5/1/2025 1:20:20 PM		
Supervise By	Jagrut	Supervise On	5/1/2025 1:23:08 PM		
SubDirectory	BF043025	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142238.D	30 Apr 2025 10:55	RC/JU	Ok
2	SSTDICC2.5	BF142239.D	30 Apr 2025 11:24	RC/JU	Ok
3	SSTDICC005	BF142240.D	30 Apr 2025 11:52	RC/JU	Ok,M
4	SSTDICC010	BF142241.D	30 Apr 2025 12:20	RC/JU	Ok
5	SSTDICC020	BF142242.D	30 Apr 2025 12:49	RC/JU	Ok,M
6	SSTDICCC040	BF142243.D	30 Apr 2025 13:17	RC/JU	Ok,M
7	SSTDICC050	BF142244.D	30 Apr 2025 13:46	RC/JU	Ok,M
8	SSTDICC060	BF142245.D	30 Apr 2025 14:15	RC/JU	Ok,M
9	SSTDICC080	BF142246.D	30 Apr 2025 14:43	RC/JU	Ok,M
10	SSTDICV040	BF142247.D	30 Apr 2025 16:17	RC/JU	Ok,M
11	PB167726BL	BF142248.D	30 Apr 2025 17:15	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM				
SubDirectory	BF050125	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142249.D	01 May 2025 09:48	RC/JU	Ok
2	SSTDCCC040	BF142250.D	01 May 2025 10:17	RC/JU	Ok,M
3	PB167798BL	BF142251.D	01 May 2025 10:45	RC/JU	Ok
4	PB167798BS	BF142252.D	01 May 2025 11:13	RC/JU	Ok,M
5	PB167798BSD	BF142253.D	01 May 2025 11:42	RC/JU	Ok,M
6	PB167810BL	BF142254.D	01 May 2025 12:10	RC/JU	Ok
7	PB167810BS	BF142255.D	01 May 2025 12:39	RC/JU	Ok,M
8	PB167774TB	BF142256.D	01 May 2025 13:07	RC/JU	Ok
9	Q1890-01	BF142257.D	01 May 2025 13:40	RC/JU	Ok
10	Q1920-01	BF142258.D	01 May 2025 14:09	RC/JU	Ok,M
11	Q1914-14	BF142259.D	01 May 2025 14:37	RC/JU	Ok
12	Q1913-04	BF142260.D	01 May 2025 15:06	RC/JU	Ok
13	Q1915-01	BF142261.D	01 May 2025 15:34	RC/JU	Ok
14	Q1903-01	BF142262.D	01 May 2025 16:03	RC/JU	Ok
15	Q1903-02	BF142263.D	01 May 2025 16:31	RC/JU	Ok
16	Q1903-03	BF142264.D	01 May 2025 17:00	RC/JU	Ok
17	Q1906-01	BF142265.D	01 May 2025 17:29	RC/JU	Ok
18	Q1906-13	BF142266.D	01 May 2025 17:57	RC/JU	Ok
19	Q1901-06	BF142267.D	01 May 2025 18:26	RC/JU	Ok
20	Q1901-02	BF142268.D	01 May 2025 18:55	RC/JU	Ok,M
21	Q1901-02MS	BF142269.D	01 May 2025 19:24	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM				
SubDirectory	BF050125	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1901-02MSD	BF142270.D	01 May 2025 19:52	RC/JU	Ok,M
23	Q1901-04	BF142271.D	01 May 2025 20:20	RC/JU	Ok
24	Q1901-05	BF142272.D	01 May 2025 20:49	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM042825

Review By	Rahul	Review On	4/29/2025 8:56:26 AM		
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:30 AM		
SubDirectory	BM042825	HP Acquire Method	BNA_M	HP Processing Method	BM042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050023.D	28 Apr 2025 11:46	RC/JU	Ok
2	SSTDICC2.5	BM050024.D	28 Apr 2025 12:30	RC/JU	Ok
3	SSTDICC005	BM050025.D	28 Apr 2025 13:09	RC/JU	Ok,M
4	SSTDICC010	BM050026.D	28 Apr 2025 13:48	RC/JU	Ok,M
5	SSTDICC020	BM050027.D	28 Apr 2025 14:27	RC/JU	Ok,M
6	SSTDICCC040	BM050028.D	28 Apr 2025 15:06	RC/JU	Ok
7	SSTDICC050	BM050029.D	28 Apr 2025 15:45	RC/JU	Ok
8	SSTDICC060	BM050030.D	28 Apr 2025 16:24	RC/JU	Ok
9	SSTDICC080	BM050031.D	28 Apr 2025 17:04	RC/JU	Ok
10	SSTDICV040	BM050032.D	28 Apr 2025 17:43	RC/JU	Ok,M
11	PB167739BL	BM050033.D	28 Apr 2025 19:40	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM050125

Review By	Rahul	Review On	5/1/2025 3:03:06 PM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:57:09 PM				
SubDirectory	BM050125	HP Acquire Method	BNA_M		HP Processing Method	BM042825	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050061.D	01 May 2025 12:24	RC/JU	Ok
2	SSTDCCC040	BM050062.D	01 May 2025 13:25	RC/JU	Ok
3	PB167779BL	BM050063.D	01 May 2025 14:04	RC/JU	Ok
4	PB167779BS	BM050064.D	01 May 2025 14:43	RC/JU	Ok
5	Q1900-05	BM050065.D	01 May 2025 15:26	RC/JU	Ok
6	Q1914-01	BM050066.D	01 May 2025 16:05	RC/JU	Ok
7	Q1914-02	BM050067.D	01 May 2025 16:44	RC/JU	Ok
8	Q1905-05	BM050068.D	01 May 2025 17:23	RC/JU	Ok,M
9	Q1900-01	BM050069.D	01 May 2025 18:02	RC/JU	Ok,M
10	Q1906-05	BM050070.D	01 May 2025 18:41	RC/JU	Ok,M
11	Q1914-03	BM050071.D	01 May 2025 19:20	RC/JU	Ok
12	Q1914-05	BM050072.D	01 May 2025 20:00	RC/JU	Ok,M
13	Q1907-01	BM050073.D	01 May 2025 20:39	RC/JU	Dilution
14	Q1901-03	BM050074.D	01 May 2025 21:18	RC/JU	Ok,M
15	Q1900-09	BM050075.D	01 May 2025 21:57	RC/JU	Ok,M
16	Q1905-01	BM050076.D	01 May 2025 22:36	RC/JU	Ok,M
17	Q1906-09	BM050077.D	01 May 2025 23:15	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF043025

Review By	Rahul	Review On	5/1/2025 1:20:20 PM		
Supervise By	Jagrut	Supervise On	5/1/2025 1:23:08 PM		
SubDirectory	BF043025	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142238.D	30 Apr 2025 10:55		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF142239.D	30 Apr 2025 11:24		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF142240.D	30 Apr 2025 11:52	Compound#32,54,56,65,70,85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF142241.D	30 Apr 2025 12:20		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF142242.D	30 Apr 2025 12:49		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF142243.D	30 Apr 2025 13:17	Compound#32,48,51,53,57,62,65,80,84,85 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF142244.D	30 Apr 2025 13:46	Compound#26,54 Kept on QR	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF142245.D	30 Apr 2025 14:15		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF142246.D	30 Apr 2025 14:43		RC/JU	Ok,M
10	SSTDICV040	ICVBF043025	BF142247.D	30 Apr 2025 16:17		RC/JU	Ok,M
11	PB167726BL	PB167726BL	BF142248.D	30 Apr 2025 17:15		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM		
SubDirectory	BF050125	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142249.D	01 May 2025 09:48		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142250.D	01 May 2025 10:17		RC/JU	Ok,M
3	PB167798BL	PB167798BL	BF142251.D	01 May 2025 10:45		RC/JU	Ok
4	PB167798BS	PB167798BS	BF142252.D	01 May 2025 11:13		RC/JU	Ok,M
5	PB167798BSD	PB167798BSD	BF142253.D	01 May 2025 11:42		RC/JU	Ok,M
6	PB167810BL	PB167810BL	BF142254.D	01 May 2025 12:10		RC/JU	Ok
7	PB167810BS	PB167810BS	BF142255.D	01 May 2025 12:39		RC/JU	Ok,M
8	PB167774TB	PB167774TB	BF142256.D	01 May 2025 13:07		RC/JU	Ok
9	Q1890-01	TW-WTS-07	BF142257.D	01 May 2025 13:40		RC/JU	Ok
10	Q1920-01	291	BF142258.D	01 May 2025 14:09		RC/JU	Ok,M
11	Q1914-14	FB04282025	BF142259.D	01 May 2025 14:37		RC/JU	Ok
12	Q1913-04	WC-13-A-202504	BF142260.D	01 May 2025 15:06		RC/JU	Ok
13	Q1915-01	WC-04282025	BF142261.D	01 May 2025 15:34		RC/JU	Ok
14	Q1903-01	COMP-4	BF142262.D	01 May 2025 16:03		RC/JU	Ok
15	Q1903-02	COMP-5	BF142263.D	01 May 2025 16:31		RC/JU	Ok
16	Q1903-03	COMP-6	BF142264.D	01 May 2025 17:00		RC/JU	Ok
17	Q1906-01	WC-4	BF142265.D	01 May 2025 17:29		RC/JU	Ok
18	Q1906-13	WC-7	BF142266.D	01 May 2025 17:57		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM		
SubDirectory	BF050125	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1901-06	FB04262025	BF142267.D	01 May 2025 18:26		RC/JU	Ok
20	Q1901-02	B-167-SB01	BF142268.D	01 May 2025 18:55		RC/JU	Ok,M
21	Q1901-02MS	B-167-SB01MS	BF142269.D	01 May 2025 19:24		RC/JU	Ok,M
22	Q1901-02MSD	B-167-SB01MSD	BF142270.D	01 May 2025 19:52		RC/JU	Ok,M
23	Q1901-04	B-167-SB02	BF142271.D	01 May 2025 20:20		RC/JU	Ok
24	Q1901-05	B-170-SB02	BF142272.D	01 May 2025 20:49		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM042825

Review By	Rahul	Review On	4/29/2025 8:56:26 AM		
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:30 AM		
SubDirectory	BM042825	HP Acquire Method	BNA_M	HP Processing Method	BM042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050023.D	28 Apr 2025 11:46		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM050024.D	28 Apr 2025 12:30		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM050025.D	28 Apr 2025 13:09	Compound#32-41-54-56-65-70-77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM050026.D	28 Apr 2025 13:48		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM050027.D	28 Apr 2025 14:27		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BM050028.D	28 Apr 2025 15:06	Compound#54 & 56 Kept on LR	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BM050029.D	28 Apr 2025 15:45		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BM050030.D	28 Apr 2025 16:24		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BM050031.D	28 Apr 2025 17:04		RC/JU	Ok
10	SSTDICV040	ICVBM042825	BM050032.D	28 Apr 2025 17:43		RC/JU	Ok,M
11	PB167739BL	PB167739BL	BM050033.D	28 Apr 2025 19:40	Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM050125

Review By	Rahul	Review On	5/1/2025 3:03:06 PM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:57:09 PM		
SubDirectory	BM050125	HP Acquire Method	BNA_M	HP Processing Method	BM042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050061.D	01 May 2025 12:24		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM050062.D	01 May 2025 13:25		RC/JU	Ok
3	PB167779BL	PB167779BL	BM050063.D	01 May 2025 14:04		RC/JU	Ok
4	PB167779BS	PB167779BS	BM050064.D	01 May 2025 14:43		RC/JU	Ok
5	Q1900-05	WC-2	BM050065.D	01 May 2025 15:26		RC/JU	Ok
6	Q1914-01	SS-1	BM050066.D	01 May 2025 16:05		RC/JU	Ok
7	Q1914-02	SS-91	BM050067.D	01 May 2025 16:44		RC/JU	Ok
8	Q1905-05	MH-H	BM050068.D	01 May 2025 17:23		RC/JU	Ok,M
9	Q1900-01	WC-1	BM050069.D	01 May 2025 18:02		RC/JU	Ok,M
10	Q1906-05	WC-5	BM050070.D	01 May 2025 18:41		RC/JU	Ok,M
11	Q1914-03	SS-2	BM050071.D	01 May 2025 19:20		RC/JU	Ok
12	Q1914-05	SS-4	BM050072.D	01 May 2025 20:00		RC/JU	Ok,M
13	Q1907-01	CO-8R-WC	BM050073.D	01 May 2025 20:39	Need further 5X Dilution	RC/JU	Dilution
14	Q1901-03	B-170-SB01	BM050074.D	01 May 2025 21:18		RC/JU	Ok,M
15	Q1900-09	WC-3	BM050075.D	01 May 2025 21:57		RC/JU	Ok,M
16	Q1905-01	MH-G	BM050076.D	01 May 2025 22:36		RC/JU	Ok,M
17	Q1906-09	WC-6	BM050077.D	01 May 2025 23:15	Need Straight Run	RC/JU	Not Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167779

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 04/29/2025

Extraction Start Time : 09:30

Extraction End Date : 04/29/2025

Extraction End Time : 12:30

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [_] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	EP2865
Methylene Chloride	N/A	E3926
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/29/25	RS (EC4 Lab).	RC/SVOC
12:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167779

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/29/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167779BL	SBLK779	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U1-1
PB167779BS	SLCS779	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1900-01	WC-1	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
Q1900-05	WC-2	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1900-09	WC-3	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		5
Q1901-02	B-167-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	F		6
Q1901-02MS	B-167-SB01MS	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	F		U2-1
Q1901-02MS D	B-167-SB01MSD	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	F		2
Q1901-03	B-170-SB01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3
Q1901-04	B-167-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		4
Q1901-05	B-170-SB02	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		5
Q1902-02	343	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		6
Q1903-01	COMP-4	SVOCMS Group1	30.04	N/A	ritesh	Evelyn	1	E		U3-1
Q1903-02	COMP-5	SVOCMS Group1	30.02	N/A	ritesh	Evelyn	1	E		2
Q1903-03	COMP-6	SVOCMS Group1	30.03	N/A	ritesh	Evelyn	1	E		3
Q1904-01	VNJ-210	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	H		4
Q1905-01	MH-G	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	D		5
Q1905-05	MH-H	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	D		6
Q1906-01	WC-4	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		U6-1
Q1906-05	WC-5	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	D		2
Q1906-09	WC-6	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		3
Q1906-13	WC-7	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	D		4

RS
4/29

* **Extracts relinguished on the same date as received.**

16 7779 9:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1903 **WorkList ID :** 189200 **Department :** Extraction **Date :** 04-29-2025 08:40:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1900-01	WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/25/2025	8270E
Q1900-05	WC-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/25/2025	8270E
Q1900-09	WC-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/25/2025	8270E
Q1901-02	B-167-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1901-03	B-170-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1901-04	B-167-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1901-05	B-170-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1902-02	343	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1903-01	COMP-4	Solid	SVOCMS Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8270E
Q1903-02	COMP-5	Solid	SVOCMS Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8270E
Q1903-03	COMP-6	Solid	SVOCMS Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8270E
Q1904-01	VNJ-210	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1905-01	MH-G	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	04/28/2025	8270E
Q1905-05	MH-H	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	04/28/2025	8270E
Q1906-01	WC-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1906-05	WC-5	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1906-09	WC-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1906-13	WC-7	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E

Date/Time 04/29/25 9:25
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: CP

Date/Time 04/29/25 10:00
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Ext-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167798

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/30/2025
Matrix :	Water			**Extraction Start Time :**	08:35
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	04/30/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2607
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Q1914-14 Added at 11:58 AM.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/30/25	RS (Ext lab)	RC/SVOC
16:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167798

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/30/2025

Sample ID	Client Sample ID	Test	g /(mL)*	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167798BL	SBLK798	SVOC-TCL BNA -20	1000	6	ritesh	Evelyn	1			SEP-1
PB167798BS	SLCS798	SVOC-TCL BNA -20	1000	6	ritesh	Evelyn	1			2
PB167798BSD	SLCSD798	SVOC-TCL BNA -20	1000	6	ritesh	Evelyn	1			3
Q1890-01	TW-WTS-07	SVOCMS Group4	960	12	ritesh	Evelyn	1	F		4
Q1901-06	FB04262025	SVOC-TCL BNA -20	940	6	ritesh	Evelyn	1	I		5
Q1914-14	FB04282025	SVOCMS Group3	960	6	ritesh	Evelyn	1	C		6

RS 4/30

* **Extracts relinquished on the same date as received.**

167798
8:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1890 **WorkList ID :** 189223 **Department :** Extraction **Date :** 04-30-2025 08:30:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1890-01	TW-WTS-07	Water	SVOCMS Group4	Cool 4 deg C	ENTA05	L41	04/24/2025	8270E
Q1901-06	FB04262025	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E

Date/Time 04/30/25 8:30
Raw Sample Received by: RJ (EXT (gb)
Raw Sample Relinquished by: SM

Date/Time 4/30/25 9:00
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EXT (gb)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1914 **WorkList ID :** 189229 **Department :** Extraction **Date :** 04-30-2025 10:58:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1914-14	FB04282025	Water	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	04/28/2025	8270E

Date/Time 4/30/25 10:58

Raw Sample Received by: RJ (EXT-lab)

Raw Sample Relinquished by: CP SM

Date/Time 4/30/25 11:15

Raw Sample Received by: CP SM

Raw Sample Relinquished by: RJ (EXT-lab)

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/30/25	05/01/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**B-167-SB01**							
Q1901-08	B-167-SB01	TCLP	Pyridine	24.100	J	12.8	50	ug/L
			Total Svoc :			**24.10**		
			Total Concentration:			**24.10**		

SAMPLE DATA

Raw Data: **BF142256.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/30/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/30/25
Client Sample ID:	PB167774TB	SDG No.:	Q1901
Lab Sample ID:	PB167774TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142256.D	1	04/30/25 13:15	05/01/25 13:07	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		15 (10) - 110 (139)	78%	SPK: 150
13127-88-3	Phenol-d6	116		15 (10) - 110 (134)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.3		30 (49) - 130 (133)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.1		30 (52) - 130 (132)	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		30 (48) - 130 (125)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	218000	6.904			
1146-65-2	Naphthalene-d8	840000	8.186			
15067-26-2	Acenaphthene-d10	443000	9.945			
1517-22-2	Phenanthrene-d10	773000	11.427			
1719-03-5	Chrysene-d12	539000	14.068			
1520-96-3	Perylene-d12	394000	15.562			

Raw Data: **BF142256.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/30/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/30/25
Client Sample ID:	PB167774TB			SDG No.:	Q1901
Lab Sample ID:	PB167774TB			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
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
BF142256.D	1	04/30/25 13:15	05/01/25 13:07	PB167810

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

Raw Data: **BF142276.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142276.D	1	04/30/25 13:15	05/02/25 11:58	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	24.1	J	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	103		15 (10) - 110 (139)	69%	SPK: 150
13127-88-3	Phenol-d6	95.9		15 (10) - 110 (134)	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.3		30 (49) - 130 (133)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.9		30 (52) - 130 (132)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	68.1		30 (48) - 130 (125)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.91			
1146-65-2	Naphthalene-d8	840000	8.186			
15067-26-2	Acenaphthene-d10	447000	9.939			
1517-22-2	Phenanthrene-d10	770000	11.427			
1719-03-5	Chrysene-d12	529000	14.068			
1520-96-3	Perylene-d12	393000	15.557			

Raw Data: **BF142276.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142276.D	1	04/30/25 13:15	05/02/25 11:58	PB167810

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

Raw Data: **BF142279.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142279.D	1	04/30/25 13:15	05/02/25 13:24	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	101		15 (10) - 110 (139)	67%	SPK: 150
13127-88-3	Phenol-d6	92.9		15 (10) - 110 (134)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.7		30 (49) - 130 (133)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.7		30 (52) - 130 (132)	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	72.5		30 (48) - 130 (125)	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	207000	6.91			
1146-65-2	Naphthalene-d8	787000	8.186			
15067-26-2	Acenaphthene-d10	403000	9.939			
1517-22-2	Phenanthrene-d10	662000	11.427			
1719-03-5	Chrysene-d12	411000	14.068			
1520-96-3	Perylene-d12	344000	15.557			

Raw Data: **BF142279.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142279.D	1	04/30/25 13:15	05/02/25 13:24	PB167810

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

Raw Data: **BF142280.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142280.D	1	04/30/25 13:15	05/02/25 13:53	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	101		15 (10) - 110 (139)	67%	SPK: 150
13127-88-3	Phenol-d6	70.4		15 (10) - 110 (134)	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.2		30 (49) - 130 (133)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	114		30 (52) - 130 (132)	114%	SPK: 100
118-79-6	2,4,6-Tribromophenol	212	*	15 (44) - 110 (137)	141%	SPK: 150
1718-51-0	Terphenyl-d14	181	*	30 (48) - 130 (125)	181%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	215000	6.904			
1146-65-2	Naphthalene-d8	812000	8.187			
15067-26-2	Acenaphthene-d10	266000	9.939			
1517-22-2	Phenanthrene-d10	612000	11.428			
1719-03-5	Chrysene-d12	155000	14.063			
1520-96-3	Perylene-d12	3230	15.551			

Raw Data: **BF142280.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142280.D	1	04/30/25 13:15	05/02/25 13:53	PB167810

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

Raw Data: **BP024529.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02RE	SDG No.:	Q1901
Lab Sample ID:	Q1901-10RE	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BP024529.D	1	04/30/25 13:15	05/05/25 17:26	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	115		15 (10) - 110 (139)	77%	SPK: 150
13127-88-3	Phenol-d6	41.6		15 (10) - 110 (134)	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.0		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	314	*	30 (52) - 130 (132)	313%	SPK: 100
118-79-6	2,4,6-Tribromophenol	554	*	15 (44) - 110 (137)	369%	SPK: 150
1718-51-0	Terphenyl-d14	902	*	30 (48) - 130 (125)	902%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	159000	7.711			
1146-65-2	Naphthalene-d8	625000	10.481			
15067-26-2	Acenaphthene-d10	112000	14.34			
1517-22-2	Phenanthrene-d10	431000	17.145			
1719-03-5	Chrysene-d12	43400	21.586			
1520-96-3	Perylene-d12	0	0			

Raw Data: **BP024529.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/28/25
Client Sample ID:	B-167-SB02RE			SDG No.:	Q1901
Lab Sample ID:	Q1901-10RE			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
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
BP024529.D	1	04/30/25 13:15	05/05/25 17:26	PB167810

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

Raw Data: **BF142281.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142281.D	1	04/30/25 13:15	05/02/25 14:22	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	94.4		15 (10) - 110 (139)	63%	SPK: 150
13127-88-3	Phenol-d6	88.5		15 (10) - 110 (134)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.5		30 (49) - 130 (133)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.6		30 (52) - 130 (132)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		15 (44) - 110 (137)	80%	SPK: 150
1718-51-0	Terphenyl-d14	63.8		30 (48) - 130 (125)	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	214000	6.904			
1146-65-2	Naphthalene-d8	820000	8.187			
15067-26-2	Acenaphthene-d10	418000	9.939			
1517-22-2	Phenanthrene-d10	705000	11.428			
1719-03-5	Chrysene-d12	440000	14.063			
1520-96-3	Perylene-d12	313000	15.551			

Raw Data: **BF142281.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF142281.D	1	04/30/25 13:15	05/02/25 14:22	PB167810

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167774TB	PB167774TB	2-Fluorophenol	150	116	78		15 (10)	110 (139)
		Phenol-d6	150	116	77		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.3	87		30 (49)	130 (133)
		2-Fluorobiphenyl	100	72.1	72		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	131	87		15 (44)	110 (137)
		Terphenyl-d14	100	67.9	68		30 (48)	130 (125)
PB167810BL	PB167810BL	2-Fluorophenol	150	110	73		15 (10)	110 (139)
		Phenol-d6	150	109	73		15 (10)	110 (134)
		Nitrobenzene-d5	100	83.3	83		30 (49)	130 (133)
		2-Fluorobiphenyl	100	69.1	69		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	124	83		15 (44)	110 (137)
		Terphenyl-d14	100	63.3	63		30 (48)	130 (125)
PB167810BS	PB167810BS	2-Fluorophenol	150	111	74		15 (10)	110 (139)
		Phenol-d6	150	113	75		15 (10)	110 (134)
		Nitrobenzene-d5	100	82.4	82		30 (49)	130 (133)
		2-Fluorobiphenyl	100	68.5	69		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	132	88		15 (44)	110 (137)
		Terphenyl-d14	100	74.1	74		30 (48)	130 (125)
Q1901-08	B-167-SB01	2-Fluorophenol	150	103	69		15 (10)	110 (139)
		Phenol-d6	150	95.9	64		15 (10)	110 (134)
		Nitrobenzene-d5	100	88.3	88		30 (49)	130 (133)
		2-Fluorobiphenyl	100	69.9	70		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	139	92		15 (44)	110 (137)
		Terphenyl-d14	100	68.1	68		30 (48)	130 (125)
Q1901-08MS	B-167-SB01MS	2-Fluorophenol	150	96.6	64		15 (10)	110 (139)
		Phenol-d6	150	89.8	60		15 (10)	110 (134)
		Nitrobenzene-d5	100	84.0	84		30 (49)	130 (133)
		2-Fluorobiphenyl	100	70.7	71		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	126	84		15 (44)	110 (137)
		Terphenyl-d14	100	70.4	70		30 (48)	130 (125)
Q1901-08MSD	B-167-SB01MSD	2-Fluorophenol	150	99.4	66		15 (10)	110 (139)
		Phenol-d6	150	92.8	62		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.8	88		30 (49)	130 (133)
		2-Fluorobiphenyl	100	72.3	72		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	88		15 (44)	110 (137)
		Terphenyl-d14	100	72.8	73		30 (48)	130 (125)
Q1901-09	B-170-SB01	2-Fluorophenol	150	101	67		15 (10)	110 (139)
		Phenol-d6	150	92.9	62		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.7	88		30 (49)	130 (133)
		2-Fluorobiphenyl	100	70.7	71		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	72.5	72		30 (48)	130 (125)
Q1901-10	B-167-SB02	2-Fluorophenol	150	101	67		15 (10)	110 (139)
		Phenol-d6	150	70.4	47		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.2	90		30 (49)	130 (133)
		2-Fluorobiphenyl	100	114	114		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	212	141	*	15 (44)	110 (137)
		Terphenyl-d14	100	181	181	*	30 (48)	130 (125)
Q1901-10RE	B-167-SB02RE	2-Fluorophenol	150	115	77		15 (10)	110 (139)
		Phenol-d6	150	41.6	28		15 (10)	110 (134)
		Nitrobenzene-d5	100	93.0	93		30 (49)	130 (133)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1901-10RE	B-167-SB02RE	2-Fluorobiphenyl	100	314	313	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	554	369	*	15 (44)	110 (137)
		Terphenyl-d14	100	902	902	*	30 (48)	130 (125)
Q1901-11	B-170-SB02	2-Fluorophenol	150	94.4	63		15 (10)	110 (139)
		Phenol-d6	150	88.5	59		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.5	79		30 (49)	130 (133)
		2-Fluorobiphenyl	100	67.6	68		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	120	80		15 (44)	110 (137)
		Terphenyl-d14	100	63.8	64		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1901-08MS		**Client Sample ID:** B-167-SB01MS						**DataFile:** BF142277.D			
Pyridine	500	24.1	270	ug/L	49				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	340	ug/L	68	*			70 (55)	130 (125)	
2-Methylphenol	500	0	360	ug/L	72				70 (60)	130 (131)	
3+4-Methylphenols	500	0	360	ug/L	72				20 (54)	160 (136)	
Hexachloroethane	500	0	350	ug/L	70				20 (19)	160 (146)	
Nitrobenzene	500	0	440	ug/L	88				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	380	ug/L	76				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	470	ug/L	94				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	460	ug/L	92				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	500	ug/L	100				70 (74)	130 (137)	
Hexachlorobenzene	500	0	440	ug/L	88				70 (72)	130 (115)	
Pentachlorophenol	1000	0	940	ug/L	94				20 (52)	160 (162)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1901-08MSD		**Client Sample ID:** B-167-SB01MSD						**DataFile:** BF142278.D			
Pyridine	500	24.1	280	ug/L	51		4		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	340	ug/L	68	*	0		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	370	ug/L	74		3		70 (60)	130 (131)	20 (20)
3+4-Methylphenols	500	0	370	ug/L	74		3		20 (54)	160 (136)	20 (20)
Hexachloroethane	500	0	370	ug/L	74		6		20 (19)	160 (146)	20 (20)
Nitrobenzene	500	0	460	ug/L	92		4		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	390	ug/L	78		3		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	480	ug/L	96		2		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	470	ug/L	94		2		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	530	ug/L	106		6		70 (74)	130 (137)	20 (20)
Hexachlorobenzene	500	0	450	ug/L	90		2		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	970	ug/L	97		3		20 (52)	160 (162)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167810BS	Pyridine	50	37.2	ug/L	74				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	39.6	ug/L	79				70 (76)	130 (103)	
	2-Methylphenol	50	41.0	ug/L	82				70 (69)	130 (109)	
	3+4-Methylphenols	50	40.8	ug/L	82				20 (67)	160 (106)	
	Hexachloroethane	50	41.8	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	45.8	ug/L	92				70 (58)	130 (106)	
	Hexachlorobutadiene	50	41.5	ug/L	83				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	43.4	ug/L	87				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	44.9	ug/L	90				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	49.8	ug/L	100				70 (60)	130 (115)	
	Hexachlorobenzene	50	41.6	ug/L	83				70 (73)	130 (106)	
	Pentachlorophenol	100	93.4	ug/L	93				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167810BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142254.D Lab Sample ID: PB167810BL

Instrument ID: BNA_F Date Extracted: 04/30/2025

Matrix: (soil/water) water Date Analyzed: 05/01/2025

Level: (low/med) LOW Time Analyzed: 12:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167810BS	PB167810BS	BF142255.D	05/01/2025
B-167-SB01	Q1901-08	BF142276.D	05/02/2025
B-167-SB01MS	Q1901-08MS	BF142277.D	05/02/2025
B-167-SB01MSD	Q1901-08MSD	BF142278.D	05/02/2025
B-170-SB01	Q1901-09	BF142279.D	05/02/2025
B-167-SB02	Q1901-10	BF142280.D	05/02/2025
B-170-SB02	Q1901-11	BF142281.D	05/02/2025
PB167774TB	PB167774TB	BF142256.D	05/01/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142238.D DFTPP Injection Date: 04/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.6
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	27.3
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.3
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 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	BF142239.D	04/30/2025	11:24
SSTDICC005	SSTDICC005	BF142240.D	04/30/2025	11:52
SSTDICC010	SSTDICC010	BF142241.D	04/30/2025	12:20
SSTDICC020	SSTDICC020	BF142242.D	04/30/2025	12:49
SSTDICCC040	SSTDICCC040	BF142243.D	04/30/2025	13:17
SSTDICC050	SSTDICC050	BF142244.D	04/30/2025	13:46
SSTDICC060	SSTDICC060	BF142245.D	04/30/2025	14:15
SSTDICC080	SSTDICC080	BF142246.D	04/30/2025	14:43

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142249.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	42.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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
SSTDCCC040	SSTDCCC040	BF142250.D	05/01/2025	10:17
PB167810BL	PB167810BL	BF142254.D	05/01/2025	12:10
PB167810BS	PB167810BS	BF142255.D	05/01/2025	12:39
PB167774TB	PB167774TB	BF142256.D	05/01/2025	13:07

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142273.D DFTPP Injection Date: 05/02/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.7
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	27.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	37.6
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142274.D	05/02/2025	10:39
B-167-SB01	Q1901-08	BF142276.D	05/02/2025	11:58
B-167-SB01MS	Q1901-08MS	BF142277.D	05/02/2025	12:27
B-167-SB01MSD	Q1901-08MSD	BF142278.D	05/02/2025	12:55
B-170-SB01	Q1901-09	BF142279.D	05/02/2025	13:24
B-167-SB02	Q1901-10	BF142280.D	05/02/2025	13:53
B-170-SB02	Q1901-11	BF142281.D	05/02/2025	14:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BP024274.D DFTPP Injection Date: 04/14/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.5
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	6.9
275	10.0 - 60.0% of mass 198	29.1
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	99.1
443	15.0 - 24.0% of mass 442	19.2 (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	BP024275.D	04/14/2025	11:06
SSTDICC005	SSTDICC005	BP024276.D	04/14/2025	11:47
SSTDICC010	SSTDICC010	BP024277.D	04/14/2025	12:27
SSTDICC020	SSTDICC020	BP024278.D	04/14/2025	13:08
SSTDICCC040	SSTDICCC040	BP024279.D	04/14/2025	13:49
SSTDICC050	SSTDICC050	BP024280.D	04/14/2025	15:10
SSTDICC060	SSTDICC060	BP024281.D	04/14/2025	16:32
SSTDICC080	SSTDICC080	BP024282.D	04/14/2025	17:13

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BP024521.D DFTPP Injection Date: 05/05/2025

Instrument ID: BNA_P DFTPP Injection Time: 11:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	20.8
68	Less than 2.0% of mass 69	0.2 (1.1) 1
69	Mass 69 relative abundance	23.1
70	Less than 2.0% of mass 69	0.1 (0.6) 1
127	10.0 - 80.0% of mass 198	33.6
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	5
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 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
SSTDCCC040	SSTDCCC040	BP024522.D	05/05/2025	12:38
B-167-SB02RE	Q1901-10RE	BP024529.D	05/05/2025	17:26

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

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	186578	6.91	719586	8.19	381198	9.95
	UPPER LIMIT	373156	7.41	1439170	8.692	762396	10.445
	LOWER LIMIT	93289	6.41	359793	7.692	190599	9.445
	EPA SAMPLE NO.						
01	PB167774TB	217516	6.90	839699	8.19	443070	9.95
02	PB167810BL	223997	6.90	857825	8.19	449926	9.95
03	PB167810BS	228833	6.91	892782	8.19	472284	9.95

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

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	647816	11.433	384442	14.074	349272	15.562
	UPPER LIMIT	1295630	11.933	768884	14.574	698544	16.062
	LOWER LIMIT	323908	10.933	192221	13.574	174636	15.062
	EPA SAMPLE NO.						
01	PB167774TB	773002	11.43	539235	14.07	394051	15.56
02	PB167810BL	794711	11.43	568207	14.07	404816	15.56
03	PB167810BS	804874	11.43	464382	14.07	446826	15.57

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2025

Lab File ID: BF142274.D Time Analyzed: 10:39

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	189457	6.91	747235	8.19	389025	9.95
	UPPER LIMIT	378914	7.41	1494470	8.692	778050	10.445
	LOWER LIMIT	94728.5	6.41	373618	7.692	194513	9.445
	EPA SAMPLE NO.						
01	B-167-SB01	222553	6.91	840174	8.19	447329	9.94
02	B-167-SB01MS	212656	6.91	808361	8.19	402059	9.95
03	B-167-SB01MSD	217028	6.91	832936	8.19	419407	9.95
04	B-170-SB01	207050	6.91	786560	8.19	402861	9.94
05	B-167-SB02	215163	6.90	812217	8.19	266125	9.94
06	B-170-SB02	213953	6.90	820195	8.19	417687	9.94

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2025

Lab File ID: BF142274.D Time Analyzed: 10:39

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	652685	11.427	354752		14.068	327562		15.557
	UPPER LIMIT	1305370	11.927	709504		14.568	655124		16.057
	LOWER LIMIT	326343	10.927	177376		13.568	163781		15.057
	EPA SAMPLE NO.								
01	B-167-SB01	769739	11.43	529430		14.07	393063		15.56
02	B-167-SB01MS	629997	11.43	370460		14.07	379220		15.56
03	B-167-SB01MSD	684254	11.43	400079		14.07	401381		15.56
04	B-170-SB01	662438	11.43	411304		14.07	344110		15.56
05	B-167-SB02	611583	11.43	154727	*	14.06	3229	*	15.55
06	B-170-SB02	704817	11.43	439553		14.06	313049		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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/05/2025

Lab File ID: BP024522.D Time Analyzed: 12:38

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	132437	7.705	539349	10.48	358648	14.34
	UPPER LIMIT	264874	8.205	1078700	10.975	717296	14.84
	LOWER LIMIT	66218.5	7.205	269675	9.975	179324	13.84
	EPA SAMPLE NO.						
01	B-167-SB02RE	159015	7.71	625316	10.48	112223 *	14.34

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/05/2025

Lab File ID: BP024522.D Time Analyzed: 12:38

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	715330	17.151	882732	21.604	1072390	24.927
	UPPER LIMIT	1430660	17.651	1765460	22.104	2144780	25.427
	LOWER LIMIT	357665	16.651	441366	21.104	536195	24.427
	EPA SAMPLE NO.						
01	B-167-SB02RE	431364	17.15	43410 *	21.59	0 *	0.00 *

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

Raw Data: **BF142254.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167810BL	SDG No.:	Q1901
Lab Sample ID:	PB167810BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142254.D	1	04/30/25 13:15	05/01/25 12:10	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.53	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	110		15 (10) - 110 (139)	73%	SPK: 150
13127-88-3	Phenol-d6	109		15 (10) - 110 (134)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.3		30 (49) - 130 (133)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.1		30 (52) - 130 (132)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		15 (44) - 110 (137)	83%	SPK: 150
1718-51-0	Terphenyl-d14	63.3		30 (48) - 130 (125)	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	224000	6.904			
1146-65-2	Naphthalene-d8	858000	8.187			
15067-26-2	Acenaphthene-d10	450000	9.945			
1517-22-2	Phenanthrene-d10	795000	11.428			
1719-03-5	Chrysene-d12	568000	14.069			
1520-96-3	Perylene-d12	405000	15.563			

Raw Data: **BF142254.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167810BL			SDG No.:	Q1901
Lab Sample ID:	PB167810BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142254.D	1	04/30/25 13:15	05/01/25 12:10	PB167810

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

Raw Data: **BF142255.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167810BS	SDG No.:	Q1901
Lab Sample ID:	PB167810BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142255.D	1	04/30/25 13:15	05/01/25 12:39	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	37.2		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	39.6		0.53	5.00	ug/L
95-48-7	2-Methylphenol	41.0		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.8		1.10	10.0	ug/L
67-72-1	Hexachloroethane	41.8		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.8		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.5		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	43.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.9		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.8		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	41.6		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	93.4	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	111		15 (10) - 110 (139)	74%	SPK: 150
13127-88-3	Phenol-d6	113		15 (10) - 110 (134)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.4		30 (49) - 130 (133)	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.5		30 (52) - 130 (132)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	74.1		30 (48) - 130 (125)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	229000	6.91			
1146-65-2	Naphthalene-d8	893000	8.192			
15067-26-2	Acenaphthene-d10	472000	9.945			
1517-22-2	Phenanthrene-d10	805000	11.433			
1719-03-5	Chrysene-d12	464000	14.074			
1520-96-3	Perylene-d12	447000	15.568			

Raw Data: **BF142255.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167810BS			SDG No.:	Q1901
Lab Sample ID:	PB167810BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142255.D	1	04/30/25 13:15	05/01/25 12:39	PB167810

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

Raw Data: **BF142277.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142277.D	1	04/30/25 13:15	05/02/25 12:27	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	270		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	340		5.30	50.0	ug/L
95-48-7	2-Methylphenol	360		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	360		11.0	100	ug/L
67-72-1	Hexachloroethane	350		6.50	50.0	ug/L
98-95-3	Nitrobenzene	440		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	380		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	470		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	460		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	500		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	440		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	940	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	96.6		15 (10) - 110 (139)	64%	SPK: 150
13127-88-3	Phenol-d6	89.8		15 (10) - 110 (134)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.0		30 (49) - 130 (133)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.7		30 (52) - 130 (132)	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		15 (44) - 110 (137)	84%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		30 (48) - 130 (125)	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	213000	6.91			
1146-65-2	Naphthalene-d8	808000	8.193			
15067-26-2	Acenaphthene-d10	402000	9.945			
1517-22-2	Phenanthrene-d10	630000	11.433			
1719-03-5	Chrysene-d12	370000	14.069			
1520-96-3	Perylene-d12	379000	15.557			

Raw Data: **BF142277.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142277.D	1	04/30/25 13:15	05/02/25 12:27	PB167810

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

Raw Data: **BF142278.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142278.D	1	04/30/25 13:15	05/02/25 12:55	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	280		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	340		5.30	50.0	ug/L
95-48-7	2-Methylphenol	370		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	370		11.0	100	ug/L
67-72-1	Hexachloroethane	370		6.50	50.0	ug/L
98-95-3	Nitrobenzene	460		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	390		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	480		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	470		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	530		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	450		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	970	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	99.4		15 (10) - 110 (139)	66%	SPK: 150
13127-88-3	Phenol-d6	92.8		15 (10) - 110 (134)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.8		30 (49) - 130 (133)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		30 (52) - 130 (132)	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	72.8		30 (48) - 130 (125)	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	217000	6.91			
1146-65-2	Naphthalene-d8	833000	8.193			
15067-26-2	Acenaphthene-d10	419000	9.945			
1517-22-2	Phenanthrene-d10	684000	11.433			
1719-03-5	Chrysene-d12	400000	14.069			
1520-96-3	Perylene-d12	401000	15.563			

Raw Data: **BF142278.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142278.D	1	04/30/25 13:15	05/02/25 12:55	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
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E = Value Exceeds Calibration Range
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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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 30 16:00:01 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142239.D 5 =BF142240.D 10 =BF142241.D 20 =BF142242.D 40 =BF142243.D 50 =BF142244.D 60 =BF142245.D 80 =BF1422
46.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.563	0.534	0.561	0.592	0.580	0.555	0.530	0.559	4.03
3)		Pyridine		1.465	1.391	1.454	1.522	1.503	1.460	1.380	1.454	3.62
4)		n-Nitrosodimet...		0.747	0.699	0.728	0.807	0.789	0.766	0.731	0.752	4.95
5)	S	2-Fluorophenol		1.324	1.238	1.265	1.314	1.285	1.210	1.131	1.252	5.35
6)		Aniline		2.212	2.085	2.157	2.245	2.203	2.101	1.981	2.140	4.29
7)	S	Phenol-d6		1.559	1.505	1.534	1.593	1.550	1.475	1.370	1.512	4.85
8)		2-Chlorophenol		1.252	1.232	1.304	1.379	1.354	1.313	1.225	1.294	4.64
9)		Benzaldehyde		1.154	1.088	1.095	1.117	1.078	0.993	0.875	1.057	8.91
10)	C	Phenol		1.679	1.588	1.657	1.715	1.687	1.603	1.468	1.628	5.15
11)		bis(2-Chloroet...		1.345	1.250	1.270	1.318	1.285	1.231	1.132	1.262	5.46
12)		1,3-Dichlorobe...		1.571	1.485	1.485	1.533	1.478	1.396	1.299	1.464	6.18
13)	C	1,4-Dichlorobe...		1.610	1.486	1.495	1.546	1.488	1.404	1.295	1.475	6.86
14)		1,2-Dichlorobe...		1.489	1.418	1.431	1.475	1.432	1.356	1.255	1.408	5.67
15)		Benzyl Alcohol		1.047	1.017	1.064	1.149	1.126	1.082	1.023	1.073	4.69
16)		2,2'-oxybis(1-...		2.368	2.287	2.303	2.386	2.344	2.216	2.043	2.278	5.19
17)		2-Methylphenol		1.085	1.029	1.068	1.121	1.084	1.050	0.983	1.060	4.19
18)		Hexachloroethane		0.468	0.466	0.481	0.511	0.514	0.489	0.451	0.483	4.84
19)	P	n-Nitroso-di-n...	0.953	0.987	0.937	0.949	0.967	0.939	0.898	0.844	0.934	4.77
20)		3+4-Methylphenols		1.357	1.323	1.372	1.400	1.366	1.296	1.166	1.326	5.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.511	0.482	0.483	0.468	0.461	0.430	0.404	0.463	7.70
23)	S	Nitrobenzene-d5		0.217	0.251	0.302	0.340	0.351	0.339	0.330	0.304	16.88
24)		Nitrobenzene		0.229	0.261	0.297	0.328	0.338	0.323	0.314	0.299	13.31
25)		Isophorone		0.660	0.630	0.642	0.660	0.654	0.626	0.601	0.639	3.36
26)	C	2-Nitrophenol		0.048	0.057	0.083	0.115	0.132	0.136	0.142	0.102	38.38#
27)		2,4-Dimethylph...		0.315	0.319	0.333	0.337	0.333	0.315	0.302	0.322	3.96
28)		bis(2-Chloroet...		0.425	0.404	0.414	0.415	0.410	0.386	0.366	0.403	4.98
29)	C	2,4-Dichloroph...		0.246	0.253	0.274	0.291	0.286	0.272	0.263	0.269	6.12
30)		1,2,4-Trichlor...		0.320	0.303	0.305	0.312	0.304	0.287	0.273	0.301	5.28
31)		Naphthalene		1.106	1.040	1.035	1.020	0.999	0.924	0.858	0.997	8.21
32)		Benzoic acid			0.048	0.087	0.130	0.146	0.159	0.179	0.125	39.24
33)		4-Chloroaniline		0.446	0.414	0.429	0.429	0.423	0.396	0.371	0.415	5.98
34)	C	Hexachlorobuta...		0.180	0.175	0.179	0.185	0.178	0.170	0.161	0.175	4.35
35)		Caprolactam		0.068	0.073	0.081	0.087	0.089	0.085	0.083	0.081	9.45
36)	C	4-Chloro-3-met...		0.262	0.265	0.279	0.295	0.293	0.276	0.266	0.277	4.84
37)		2-Methylnaphth...		0.679	0.637	0.633	0.623	0.612	0.574	0.534	0.613	7.69
38)		1-Methylnaphth...		0.700	0.655	0.667	0.652	0.641	0.590	0.542	0.635	8.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.621	0.575	0.572	0.576	0.566	0.534	0.496	0.563	6.88
41)	P	Hexachlorocycl...	0.244	0.265	0.306	0.352	0.368	0.358	0.343	0.319	15.23
42)	S	2,4,6-Tribromo...	0.139	0.158	0.184	0.204	0.205	0.197	0.190	0.182	13.73
43)	C	2,4,6-Trichlor...	0.275	0.329	0.353	0.370	0.375	0.381	0.357	0.349	10.50
44)		2,4,5-Trichlor...	0.322	0.330	0.362	0.404	0.411	0.371	0.365	0.367	9.17
45)	S	2-Fluorobiphenyl	1.738	1.580	1.520	1.409	1.347	1.221	1.114	1.418	15.11
46)		1,1'-Biphenyl	1.773	1.621	1.612	1.581	1.547	1.435	1.316	1.555	9.38
47)		2-Chloronaphth...	1.289	1.176	1.191	1.185	1.157	1.085	1.014	1.157	7.51
48)		2-Nitroaniline	0.119	0.156	0.228	0.295	0.316	0.315	0.316	0.249	33.25
49)		Acenaphthylene	2.149	2.025	2.025	1.997	1.965	1.828	1.675	1.952	7.93
50)		Dimethylphthalate	1.362	1.284	1.301	1.321	1.309	1.227	1.152	1.280	5.42
51)		2,6-Dinitrotol...	0.098	0.137	0.193	0.241	0.259	0.254	0.249	0.204	31.45
52)	C	Acenaphthene	1.271	1.175	1.156	1.172	1.138	1.072	0.995	1.140	7.63
53)		3-Nitroaniline	0.143	0.187	0.252	0.298	0.311	0.310	0.299	0.257	26.09
54)	P	2,4-Dinitrophenol		0.025	0.036	0.057	0.069	0.076	0.085	0.058	40.36
55)		Dibenzofuran	1.930	1.775	1.751	1.743	1.713	1.581	1.466	1.709	8.67
56)	P	4-Nitrophenol		0.131	0.177	0.216	0.233	0.230	0.220	0.201	19.82
57)		2,4-Dinitrotol...	0.104	0.145	0.213	0.285	0.311	0.309	0.306	0.239	35.96
58)		Fluorene	1.493	1.403	1.351	1.317	1.273	1.186	1.071	1.299	10.74
59)		2,3,4,6-Tetrac...	0.252	0.267	0.312	0.334	0.334	0.323	0.305	0.304	10.65
60)		Diethylphthalate	1.324	1.264	1.302	1.313	1.300	1.215	1.126	1.263	5.61
61)		4-Chlorophenyl...	0.702	0.642	0.632	0.632	0.614	0.570	0.526	0.617	9.06
62)		4-Nitroaniline	0.144	0.177	0.233	0.272	0.287	0.281	0.269	0.238	23.57
63)		Azobenzene	1.346	1.260	1.275	1.279	1.278	1.198	1.098	1.248	6.33
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.022	0.034	0.055	0.065	0.071	0.075	0.054	39.23
66)	c	n-Nitrosodiphe...	0.727	0.686	0.693	0.712	0.689	0.653	0.623	0.683	5.11
67)		4-Bromophenyl-...	0.224	0.219	0.223	0.236	0.225	0.220	0.211	0.223	3.39
68)		Hexachlorobenzene	0.256	0.245	0.248	0.261	0.255	0.244	0.237	0.249	3.28
69)		Atrazine	0.166	0.172	0.186	0.190	0.190	0.182	0.174	0.180	5.29
70)	C	Pentachlorophenol		0.093	0.121	0.144	0.145	0.144	0.144	0.132	16.25
71)		Phenanthrene	1.218	1.114	1.119	1.112	1.064	0.995	0.940	1.080	8.45
72)		Anthracene	1.209	1.161	1.151	1.128	1.099	1.025	0.959	1.105	7.77
73)		Carbazole	1.125	1.047	1.061	1.033	0.996	0.935	0.857	1.008	8.77
74)		Di-n-butylphth...	0.986	1.006	1.088	1.069	1.045	0.988	0.912	1.013	5.88
75)	C	Fluoranthene	1.221	1.144	1.155	1.085	1.035	0.957	0.878	1.068	11.24
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.702	0.748	0.885	0.963	0.945	0.895	0.810	0.850	11.67
78)		Pyrene	1.833	1.801	1.849	2.026	1.937	1.833	1.635	1.845	6.54
79)	S	Terphenyl-d14	1.472	1.413	1.422	1.481	1.392	1.290	1.155	1.375	8.41
80)		Butylbenzylpht...	0.218	0.293	0.405	0.505	0.525	0.524	0.509	0.425	29.32
81)		Benzo(a)anthra...	1.379	1.320	1.332	1.438	1.388	1.316	1.225	1.343	5.06
82)		3,3'-Dichlorob...	0.286	0.317	0.380	0.442	0.450	0.451	0.435	0.394	17.37
83)		Chrysene	1.302	1.210	1.249	1.232	1.227	1.197	1.138	1.222	4.12
84)		Bis(2-ethylhex...	0.384	0.448	0.549	0.695	0.726	0.722	0.707	0.604	23.69
85)	c	Di-n-octyl pht...		0.668	0.875	1.262	1.320	1.347	1.329	1.133	25.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.323	1.384	1.466	1.613	1.556	1.490	1.422	1.465	6.78
88)		Benzo(b)fluora...	1.317	1.220	1.208	1.302	1.271	1.177	1.202	1.242	4.36
89)		Benzo(k)fluora...	1.211	1.159	1.222	1.145	1.146	1.110	0.962	1.136	7.59
90)	C	Benzo(a)pyrene	1.121	1.098	1.146	1.203	1.180	1.137	1.076	1.137	3.91
91)		Dibenzo(a,h)an...	1.075	1.131	1.197	1.312	1.271	1.192	1.144	1.189	6.90
92)		Benzo(g,h,i)pe...	1.076	1.138	1.204	1.308	1.267	1.213	1.162	1.195	6.55

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Apr 15 04:48:42 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024275.D 5 =BP024276.D 10 =BP024277.D 20 =BP024278.D 40 =BP024279.D 50 =BP024280.D 60 =BP024281.D 80 =BP0242
82.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.551	0.517	0.552	0.512	0.481	0.490	0.477	0.512	6.10
3)		Pyridine		1.265	1.280	1.422	1.396	1.333	1.383	1.378	1.351	4.43
4)		n-Nitrosodimet...		0.424	0.443	0.469	0.457	0.442	0.460	0.444	0.448	3.29
5)	S	2-Fluorophenol		1.123	1.145	1.262	1.254	1.210	1.277	1.196	1.210	4.93
6)		Aniline		1.439	1.487	1.636	1.587	1.403	1.428	1.380	1.480	6.52
7)	S	Phenol-d6		1.463	1.552	1.718	1.748	1.697	1.769	1.647	1.656	6.75
8)		2-Chlorophenol		1.260	1.297	1.412	1.399	1.359	1.400	1.328	1.350	4.30
9)		Benzaldehyde		0.943	0.934	0.942	0.836	0.732	0.726	0.621	0.819	15.70
10)	C	Phenol		1.475	1.565	1.720	1.750	1.698	1.779	1.643	1.661	6.54
11)		bis(2-Chloroet...		1.278	1.317	1.399	1.398	1.321	1.358	1.300	1.339	3.56
12)		1,3-Dichlorobe...		1.464	1.486	1.534	1.486	1.402	1.433	1.373	1.454	3.79
13)	C	1,4-Dichlorobe...		1.496	1.489	1.550	1.494	1.436	1.463	1.399	1.475	3.28
14)		1,2-Dichlorobe...		1.472	1.441	1.502	1.445	1.362	1.411	1.339	1.424	4.10
15)		Benzyl Alcohol		0.857	0.935	1.106	1.158	1.142	1.178	1.122	1.071	11.58
16)		2,2'-oxybis(1-...		1.452	1.496	1.517	1.514	1.405	1.397	1.348	1.447	4.54
17)		2-Methylphenol		0.915	1.002	1.123	1.140	1.105	1.150	1.087	1.075	7.97
18)		Hexachloroethane		0.532	0.537	0.558	0.542	0.521	0.533	0.510	0.533	2.88
19)	P	n-Nitroso-di-n...	0.941	1.008	1.008	1.088	1.084	1.041	1.038	0.989	1.025	4.76
20)		3+4-Methylphenols		1.224	1.365	1.560	1.592	1.567	1.607	1.525	1.491	9.57
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.470	0.487	0.522	0.519	0.490	0.495	0.483	0.495	3.85
23)	S	Nitrobenzene-d5		0.322	0.337	0.367	0.368	0.357	0.356	0.347	0.351	4.76
24)		Nitrobenzene		0.328	0.334	0.362	0.364	0.349	0.353	0.340	0.347	3.96
25)		Isophorone		0.575	0.601	0.653	0.673	0.650	0.654	0.639	0.635	5.41
26)	C	2-Nitrophenol		0.130	0.143	0.172	0.183	0.184	0.191	0.186	0.170	13.97
27)		2,4-Dimethylph...		0.180	0.194	0.219	0.226	0.225	0.228	0.221	0.213	8.81
28)		bis(2-Chloroet...		0.412	0.426	0.444	0.452	0.430	0.425	0.412	0.429	3.51
29)	C	2,4-Dichloroph...		0.242	0.268	0.297	0.308	0.307	0.311	0.302	0.291	8.94
30)		1,2,4-Trichlor...		0.308	0.305	0.318	0.321	0.309	0.315	0.306	0.311	2.00
31)		Naphthalene		1.044	1.054	1.091	1.079	1.037	1.048	1.023	1.054	2.27
32)		Benzoic acid			0.185	0.226	0.242	0.270	0.285	0.282	0.248	15.56
33)		4-Chloroaniline		0.328	0.349	0.389	0.397	0.378	0.379	0.378	0.371	6.46
34)	C	Hexachlorobuta...		0.181	0.181	0.186	0.189	0.181	0.182	0.182	0.183	1.62
35)		Caprolactam		0.085	0.092	0.111	0.112	0.115	0.121	0.115	0.107	12.53
36)	C	4-Chloro-3-met...		0.284	0.310	0.349	0.357	0.356	0.363	0.351	0.339	8.82
37)		2-Methylnaphth...		0.700	0.720	0.755	0.755	0.733	0.740	0.712	0.731	2.89
38)		1-Methylnaphth...		0.700	0.714	0.737	0.731	0.712	0.718	0.691	0.715	2.25

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.538	0.568	0.576	0.544	0.549	0.552	0.550	3.33
41)	P	Hexachlorocycl...	0.162	0.185	0.197	0.218	0.199	0.197	0.204	0.195	8.92
42)	S	2,4,6-Tribromo...	0.235	0.256	0.278	0.289	0.289	0.296	0.294	0.277	8.29
43)	C	2,4,6-Trichlor...	0.301	0.335	0.369	0.389	0.386	0.390	0.390	0.366	9.51
44)		2,4,5-Trichlor...	0.332	0.371	0.409	0.427	0.429	0.436	0.430	0.405	9.62
45)	S	2-Fluorobiphenyl	1.332	1.334	1.359	1.366	1.263	1.251	1.240	1.306	4.08
46)		1,1'-Biphenyl	1.454	1.489	1.528	1.529	1.434	1.428	1.429	1.470	3.07
47)		2-Chloronaphth...	1.063	1.100	1.135	1.139	1.085	1.090	1.078	1.099	2.60
48)		2-Nitroaniline	0.250	0.270	0.317	0.330	0.324	0.335	0.331	0.308	10.98
49)		Acenaphthylene	1.604	1.680	1.793	1.814	1.726	1.763	1.730	1.730	4.11
50)		Dimethylphthalate	1.429	1.416	1.495	1.495	1.460	1.460	1.426	1.454	2.22
51)		2,6-Dinitrotol...	0.264	0.290	0.319	0.325	0.319	0.328	0.317	0.309	7.58
52)	C	Acenaphthene	1.087	1.087	1.141	1.126	1.081	1.079	1.076	1.097	2.35
53)		3-Nitroaniline	0.250	0.289	0.338	0.354	0.342	0.340	0.358	0.325	12.25
54)	P	2,4-Dinitrophenol		0.125	0.163	0.186	0.196	0.210	0.211	0.182	18.22
55)		Dibenzofuran	1.801	1.807	1.871	1.833	1.746	1.768	1.723	1.793	2.84
56)	P	4-Nitrophenol	0.190	0.231	0.289	0.305	0.306	0.323	0.317	0.280	17.90
57)		2,4-Dinitrotol...	0.334	0.368	0.439	0.448	0.442	0.463	0.456	0.421	11.82
58)		Fluorene	1.376	1.397	1.454	1.398	1.368	1.366	1.356	1.388	2.40
59)		2,3,4,6-Tetrac...	0.327	0.351	0.380	0.389	0.387	0.390	0.389	0.373	6.57
60)		Diethylphthalate	1.451	1.484	1.528	1.550	1.499	1.499	1.481	1.499	2.16
61)		4-Chlorophenyl...	0.667	0.675	0.699	0.680	0.667	0.670	0.659	0.674	1.95
62)		4-Nitroaniline	0.263	0.300	0.353	0.369	0.364	0.380	0.376	0.344	12.99
63)		Azobenzene	1.269	1.383	1.446	1.431	1.385	1.385	1.344	1.378	4.26
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.095	0.118	0.131	0.134	0.140	0.138	0.126	13.50
66)	c	n-Nitrosodiphe...	0.567	0.585	0.616	0.630	0.591	0.608	0.580	0.597	3.71
67)		4-Bromophenyl-...	0.203	0.212	0.220	0.230	0.220	0.225	0.222	0.219	4.11
68)		Hexachlorobenzene	0.247	0.247	0.260	0.271	0.261	0.269	0.263	0.260	3.67
69)		Atrazine	0.176	0.167	0.134	0.121	0.162			0.152	15.57
70)	C	Pentachlorophenol	0.143	0.155	0.175	0.196	0.197	0.203	0.201	0.181	13.35
71)		Phenanthrene	1.098	1.086	1.117	1.127	1.070	1.082	1.058	1.091	2.27
72)		Anthracene	0.995	1.017	1.084	1.111	1.053	1.071	1.030	1.052	3.85
73)		Carbazole	0.968	0.998	1.060	1.084	1.014	1.037	1.031	1.027	3.78
74)		Di-n-butylphth...	1.147	1.230	1.253	1.398	1.310	1.338	1.284	1.280	6.30
75)	C	Fluoranthene	1.289	1.274	1.316	1.347	1.280	1.304	1.274	1.298	2.07
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.144	0.141	0.109	0.436	0.333	0.302	0.307	0.254	48.39
78)		Pyrene	1.192	1.236	1.345	1.305	1.294	1.305	1.219	1.271	4.38
79)	S	Terphenyl-d14	0.967	0.998	1.055	1.032	1.005	0.964	0.926	0.992	4.42
80)		Butylbenzylpht...	0.434	0.488	0.546	0.596	0.580	0.593	0.574	0.544	11.25
81)		Benzo(a)anthra...	1.195	1.214	1.292	1.293	1.234	1.253	1.221	1.243	3.08
82)		3,3'-Dichlorob...	0.345	0.383	0.431	0.486	0.463	0.485	0.460	0.436	12.30
83)		Chrysene	1.180	1.181	1.229	1.213	1.173	1.193	1.167	1.191	1.88
84)		Bis(2-ethylhex...	0.639	0.735	0.779	0.893	0.853	0.867	0.819	0.798	11.09
85)	c	Di-n-octyl pht...	0.945	1.093	1.222	1.461	1.430	1.486	1.446	1.297	16.46

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.252	1.304	1.407	1.444	1.401	1.445	1.466	1.388	5.77
88)		Benzo(b)fluora...	1.130	1.174	1.217	1.258	1.196	1.205	1.212	1.199	3.30
89)		Benzo(k)fluora...	1.088	1.131	1.217	1.212	1.154	1.166	1.138	1.158	3.94
90)	C	Benzo(a)pyrene	0.939	0.971	1.057	1.091	1.053	1.070	1.058	1.034	5.44
91)		Dibenzo(a,h)an...	1.046	1.089	1.172	1.203	1.169	1.186	1.202	1.152	5.28
92)		Benzo(g,h,i)pe...	1.073	1.110	1.198	1.218	1.180	1.209	1.224	1.173	4.99

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date/Time: 05/01/2025 10:17

Lab File ID: BF142250.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.454	1.532		5.4	
2-Fluorophenol	1.252	1.250		-0.2	
Phenol-d6	1.512	1.575		4.2	
1,4-Dichlorobenzene	1.475	1.526		3.5	20.0
2-Methylphenol	1.060	1.103		4.1	
3+4-Methylphenols	1.326	1.404		5.9	
Nitrobenzene-d5	0.304	0.333		9.5	
Hexachloroethane	0.483	0.505		4.6	
Nitrobenzene	0.299	0.320		7.0	
Hexachlorobutadiene	0.175	0.186		6.3	20.0
2,4,6-Trichlorophenol	0.349	0.354		1.4	20.0
2-Fluorobiphenyl	1.418	1.409		-0.6	
2,4,5-Trichlorophenol	0.367	0.386		5.2	
2,4-Dinitrotoluene	0.239	0.289		20.9	
2,4,6-Tribromophenol	0.182	0.196		7.7	
Hexachlorobenzene	0.249	0.257		3.2	
Pentachlorophenol	0.132	0.137		3.8	20.0
Terphenyl-d14	1.375	1.422		3.4	

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date/Time: 05/02/2025 10:39

Lab File ID: BF142274.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.454	1.384		-4.8	
2-Fluorophenol	1.252	1.195		-4.6	
Phenol-d6	1.512	1.457		-3.6	
1,4-Dichlorobenzene	1.475	1.364		-7.5	20.0
2-Methylphenol	1.060	1.005		-5.2	
3+4-Methylphenols	1.326	1.295		-2.3	
Nitrobenzene-d5	0.304	0.332		9.2	
Hexachloroethane	0.483	0.473		-2.1	
Nitrobenzene	0.299	0.315		5.4	
Hexachlorobutadiene	0.175	0.164		-6.3	20.0
2,4,6-Trichlorophenol	0.349	0.360		3.2	20.0
2-Fluorobiphenyl	1.418	1.293		-8.8	
2,4,5-Trichlorophenol	0.367	0.363		-1.1	
2,4-Dinitrotoluene	0.239	0.314		31.4	
2,4,6-Tribromophenol	0.182	0.190		4.4	
Hexachlorobenzene	0.249	0.232		-6.8	
Pentachlorophenol	0.132	0.137		3.8	20.0
Terphenyl-d14	1.375	1.344		-2.3	

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_P Calibration Date/Time: 05/05/2025 12:38

Lab File ID: BP024522.D Init. Calib. Date(s): 04/14/2025 04/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:06 17:13

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.351	1.195		-11.5	
2-Fluorophenol	1.210	1.171		-3.2	
Phenol-d6	1.656	1.555		-6.1	
1,4-Dichlorobenzene	1.475	1.397		-5.3	20.0
2-Methylphenol	1.075	1.030		-4.2	
3+4-Methylphenols	1.491	1.423		-4.6	
Nitrobenzene-d5	0.351	0.347		-1.1	
Hexachloroethane	0.533	0.505		-5.3	
Nitrobenzene	0.347	0.332		-4.3	
Hexachlorobutadiene	0.183	0.193		5.5	20.0
2,4,6-Trichlorophenol	0.366	0.371		1.4	20.0
2-Fluorobiphenyl	1.306	1.264		-3.2	
2,4,5-Trichlorophenol	0.405	0.407		0.5	
2,4-Dinitrotoluene	0.421	0.437		3.8	
2,4,6-Tribromophenol	0.277	0.323		16.6	
Hexachlorobenzene	0.260	0.274		5.4	
Pentachlorophenol	0.181	0.195		7.7	20.0
Terphenyl-d14	0.992	0.960		-3.2	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142256.D
Acq On : 01 May 2025 13:07
Operator : RC/JU
Sample : PB167774TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Quant Time: May 01 13:35:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

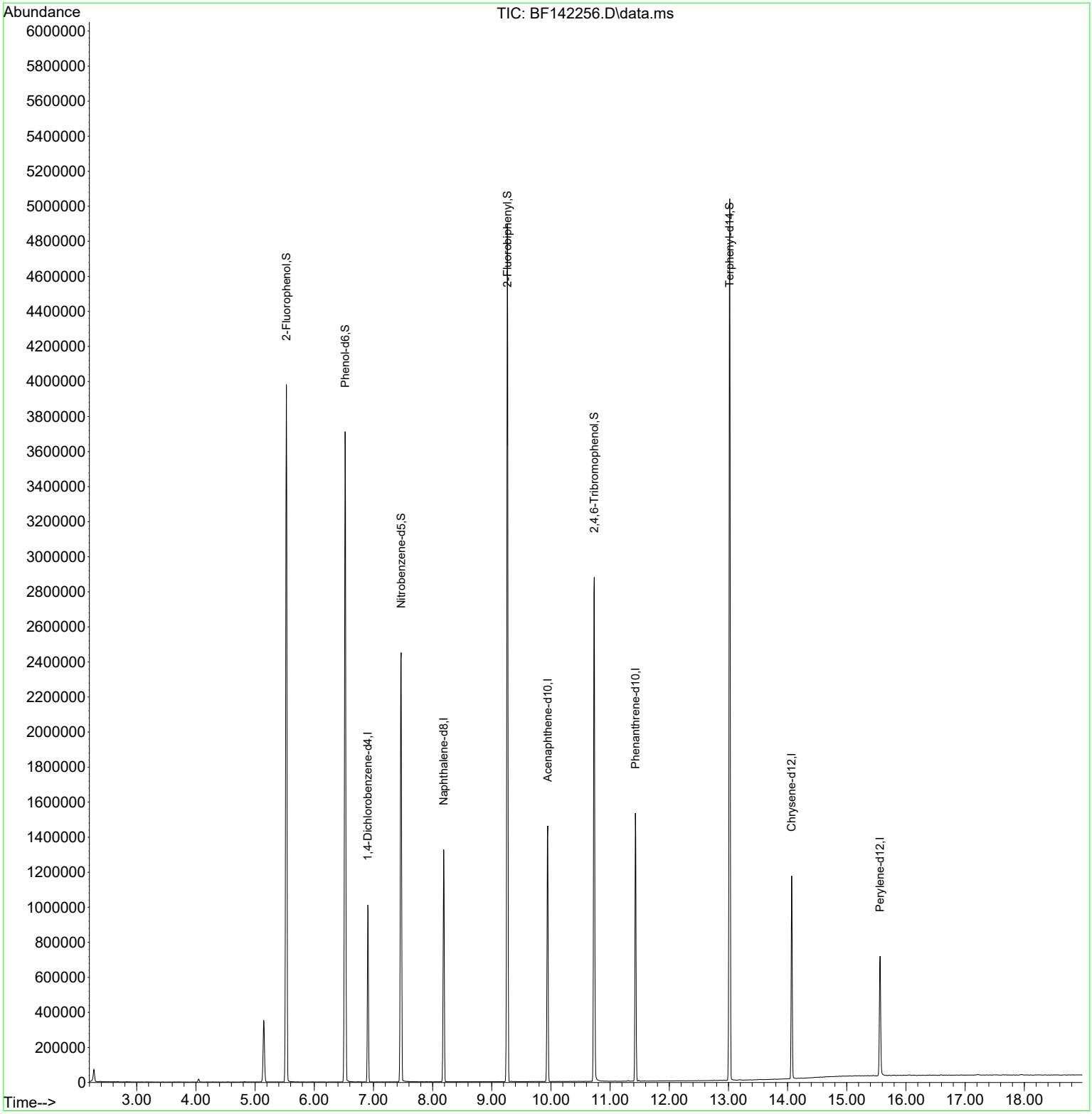
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	217516	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	839699	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	443070	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	773002	20.000	ng	0.00
76) Chrysene-d12	14.068	240	539235	20.000	ng	0.00
86) Perylene-d12	15.562	264	394051	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1585580	116.418	ng	0.01
7) Phenol-d6	6.522	99	1907914	116.005	ng	0.00
23) Nitrobenzene-d5	7.469	82	1116409	87.347	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	529459	131.080	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2264475	72.061	ng	0.00
79) Terphenyl-d14	13.021	244	2518381	67.925	ng	0.00
Target Compounds						Qvalue

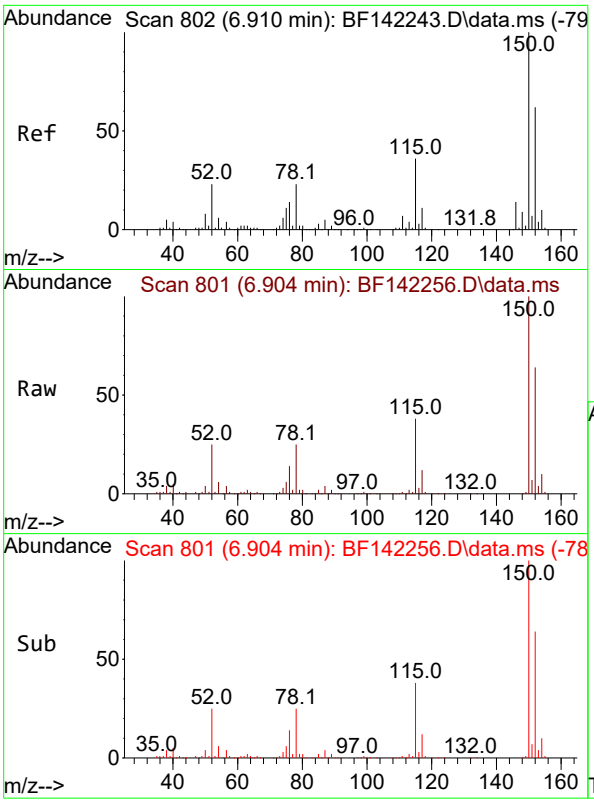
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142256.D
Acq On : 01 May 2025 13:07
Operator : RC/JU
Sample : PB167774TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Quant Time: May 01 13:35:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



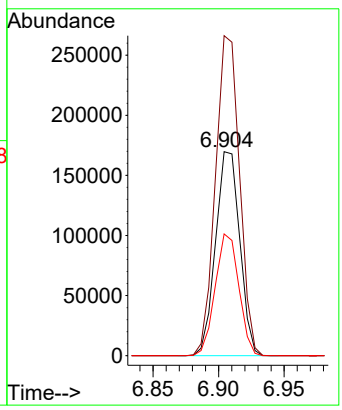


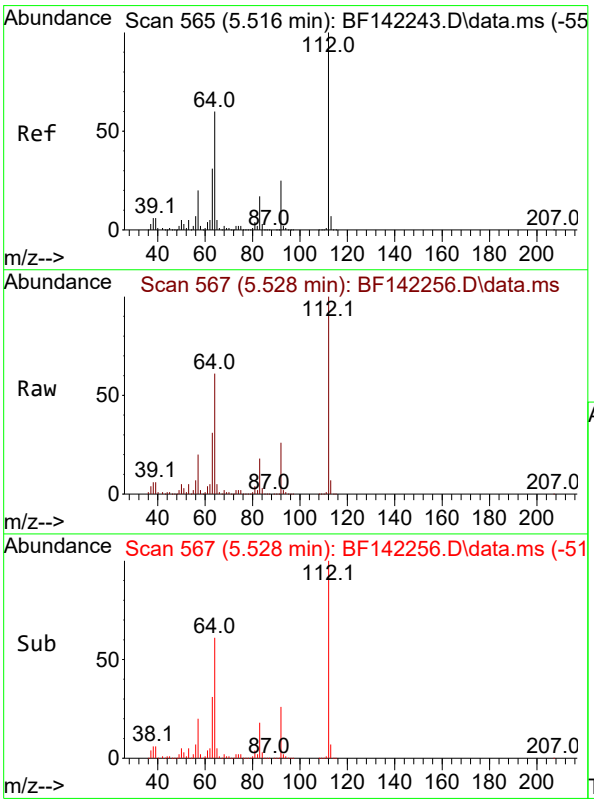
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Tgt Ion:152 Resp: 217516

Ion	Ratio	Lower	Upper
152	100		
150	156.9	130.2	195.2
115	59.7	47.0	70.4

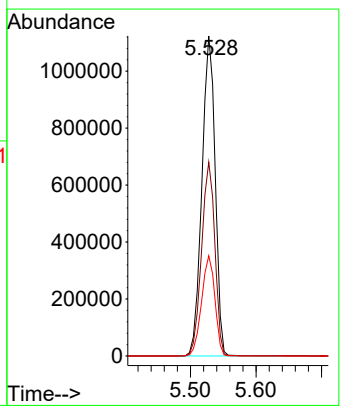


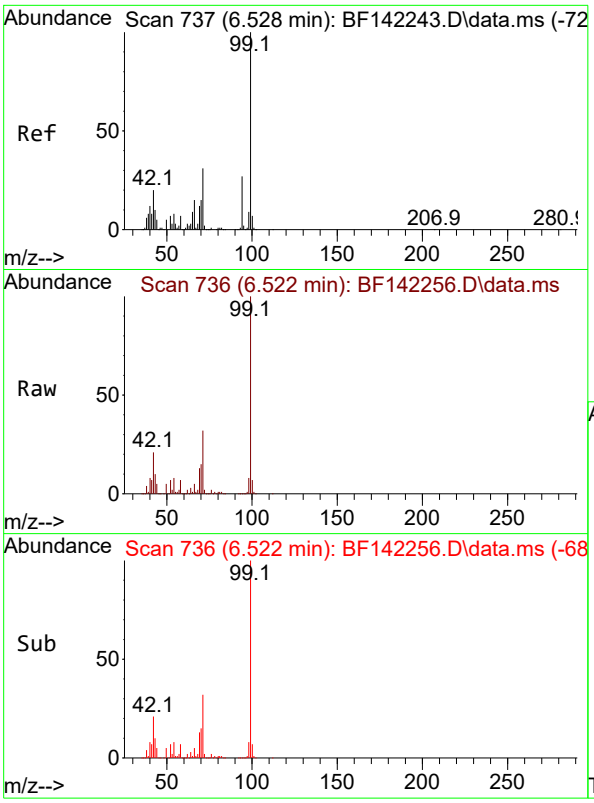


#5
2-Fluorophenol
Concen: 116.418 ng
RT: 5.528 min Scan# 567
Delta R.T. 0.012 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion:112 Resp: 1585580

Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.4	72.6
63	31.3	24.8	37.2



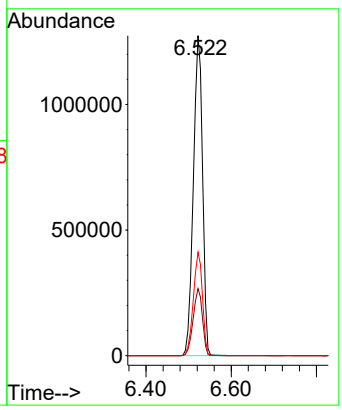


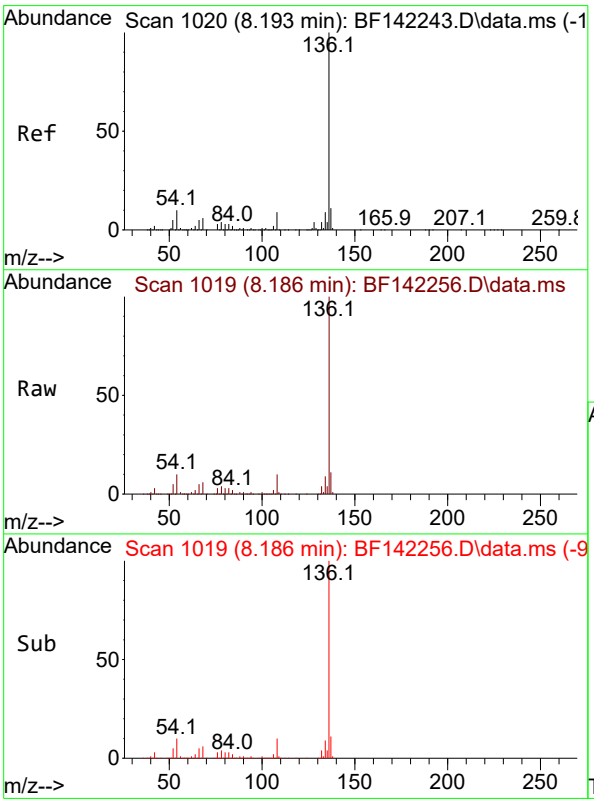
#7
Phenol-d6
Concen: 116.005 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Tgt Ion: 99 Resp: 1907914

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	32.3	25.0	37.4

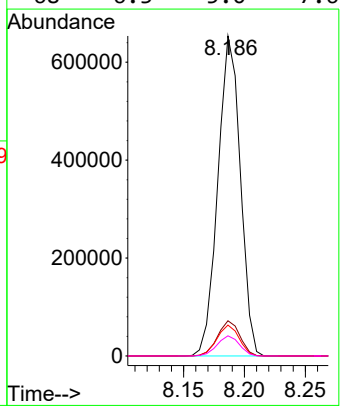




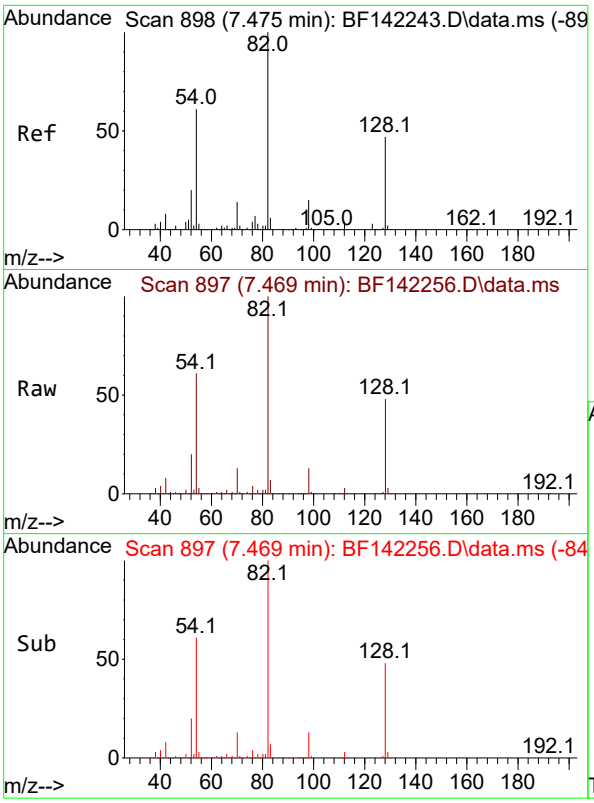
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.007 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion:136 Resp: 839699

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.7	7.7	11.5
68	6.3	5.0	7.6



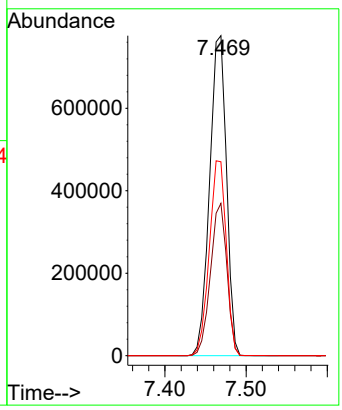
Instrument :
BNA_F
ClientSampleId :
PB167774TB

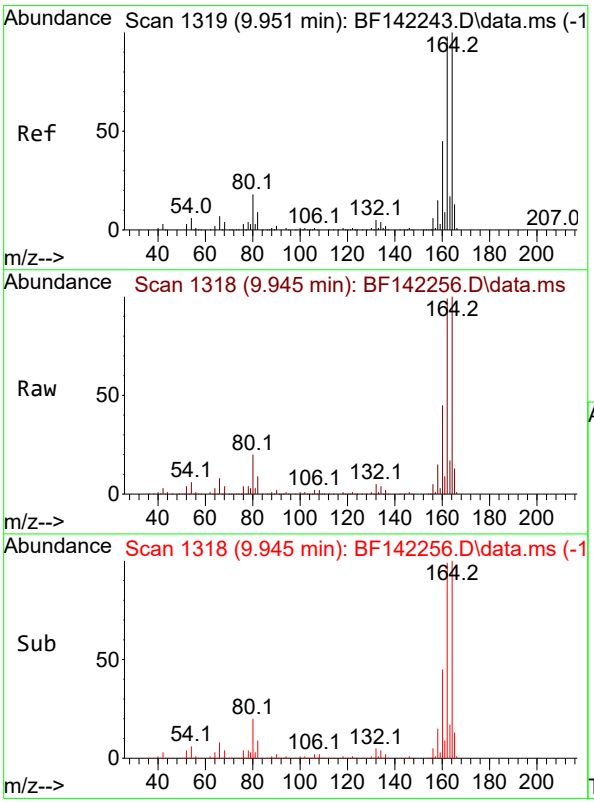


#23
Nitrobenzene-d5
Concen: 87.347 ng
RT: 7.469 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion: 82 Resp: 1116409

Ion	Ratio	Lower	Upper
82	100		
128	47.6	37.0	55.6
54	60.6	48.0	72.0

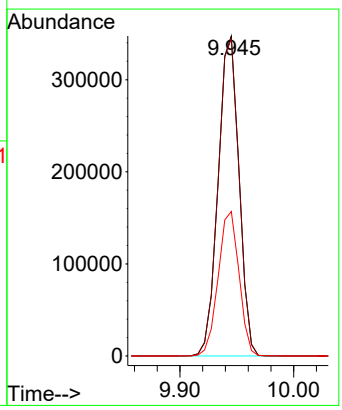


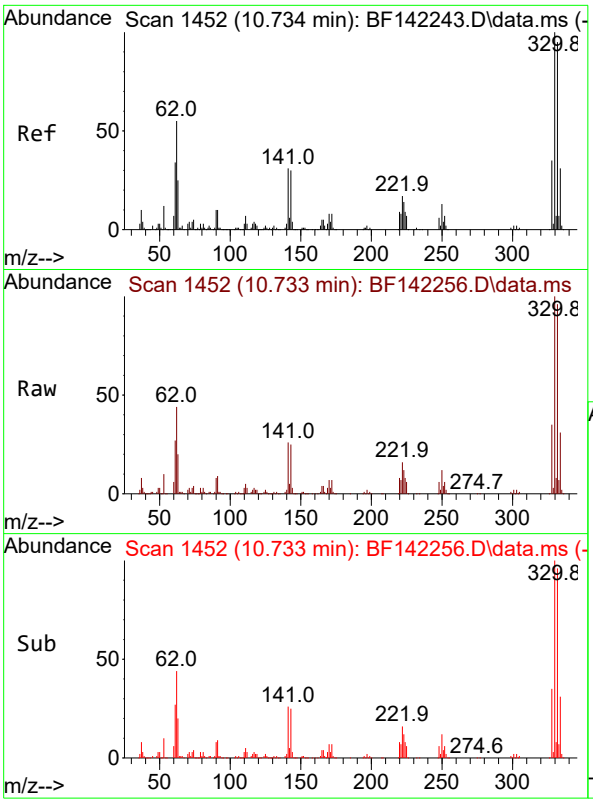


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion:164 Resp: 443070

Ion	Ratio	Lower	Upper
164	100		
162	99.1	78.6	117.8
160	45.2	35.7	53.5



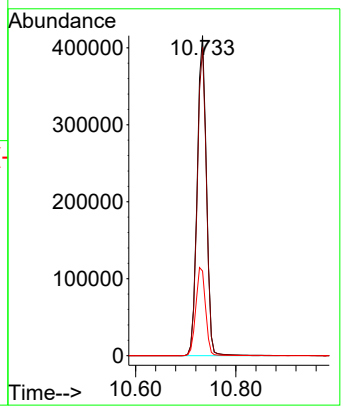


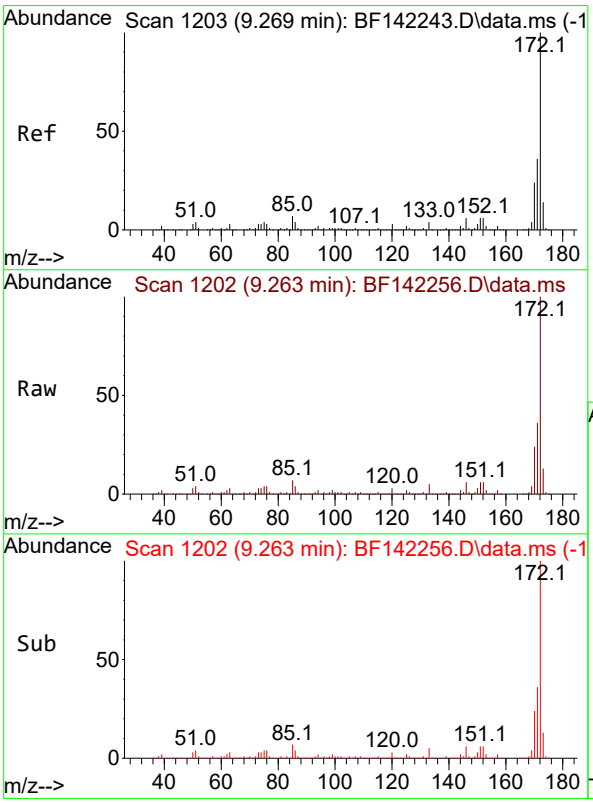
#42
2,4,6-Tribromophenol
Concen: 131.080 ng
RT: 10.733 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Tgt Ion:330 Resp: 529459

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.5	114.7
141	29.1	24.3	36.5

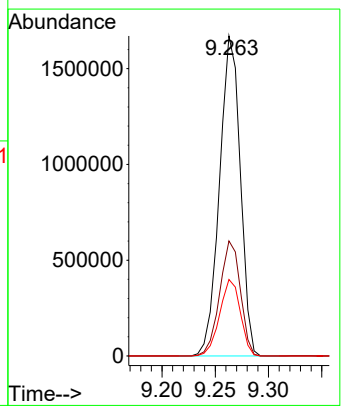


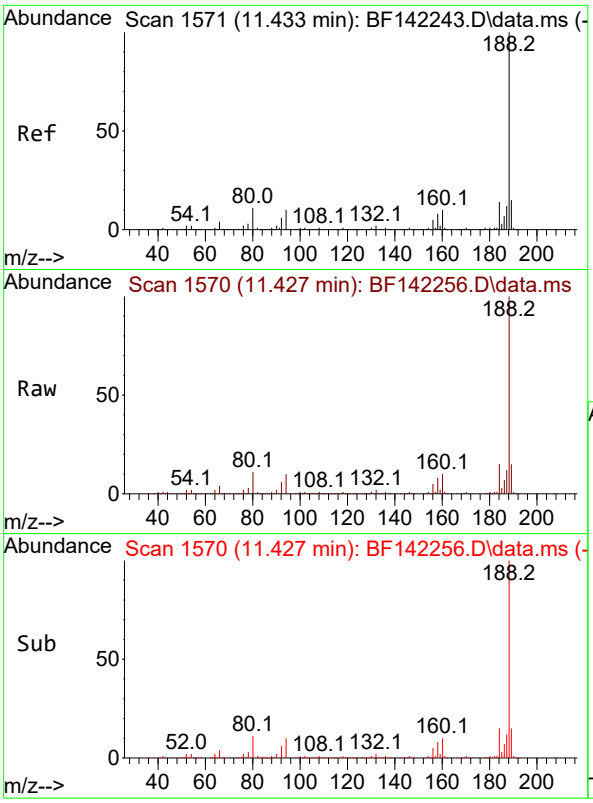


#45
2-Fluorobiphenyl
Concen: 72.061 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion:172 Resp: 2264475

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	23.9	19.4	29.0



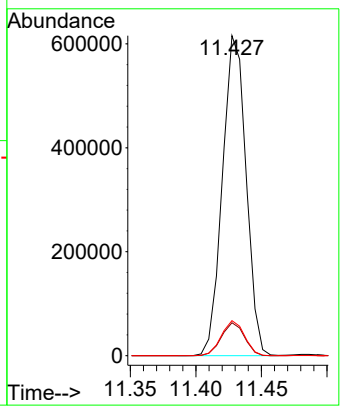


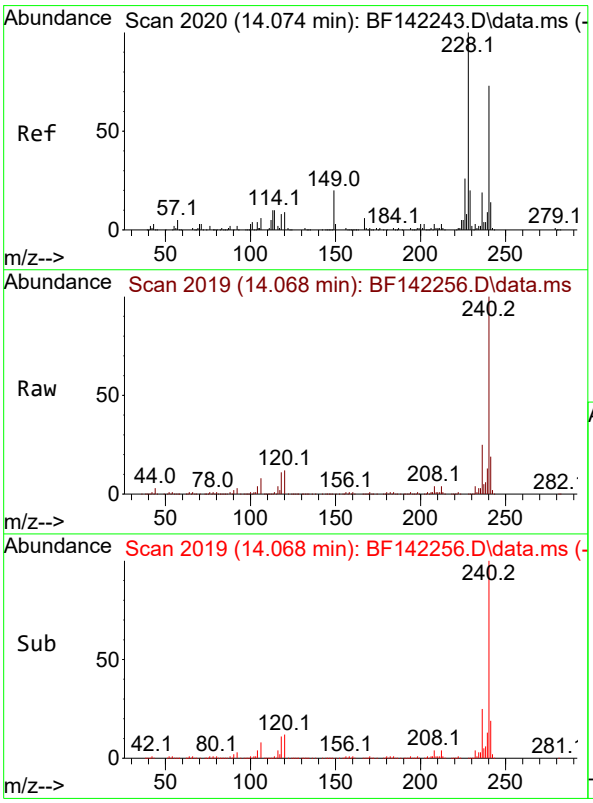
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Tgt Ion:188 Resp: 773002

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.2	12.2
80	10.9	8.6	12.8

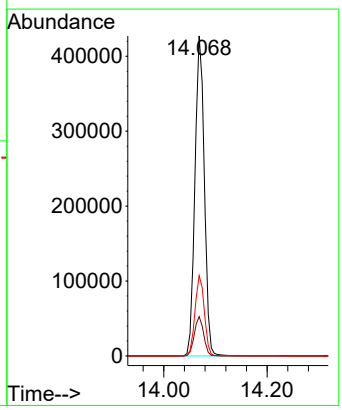


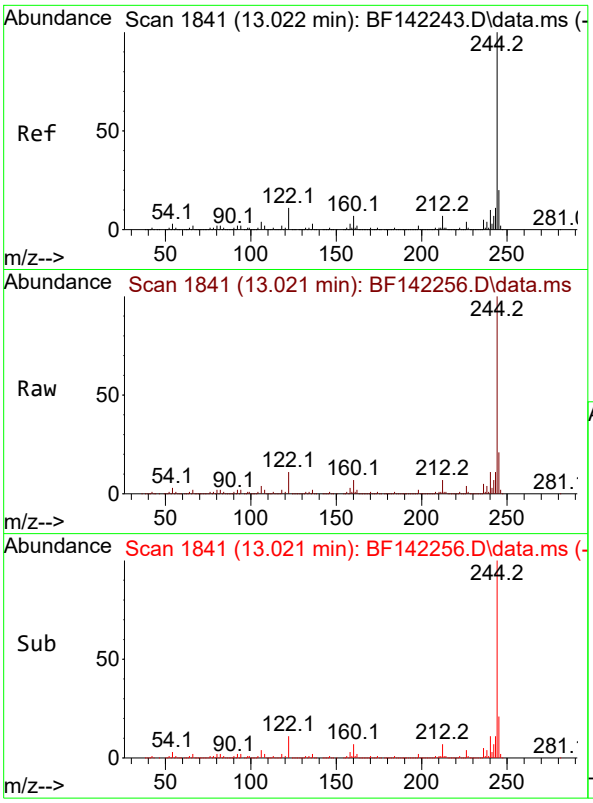


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion:240 Resp: 539235

Ion	Ratio	Lower	Upper
240	100		
120	12.3	10.1	15.1
236	25.1	20.5	30.7



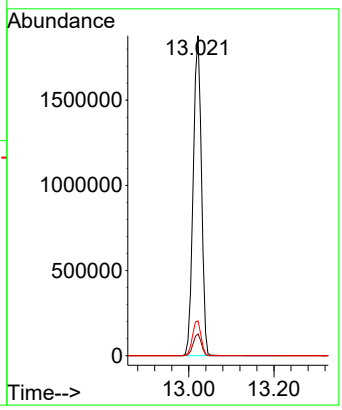


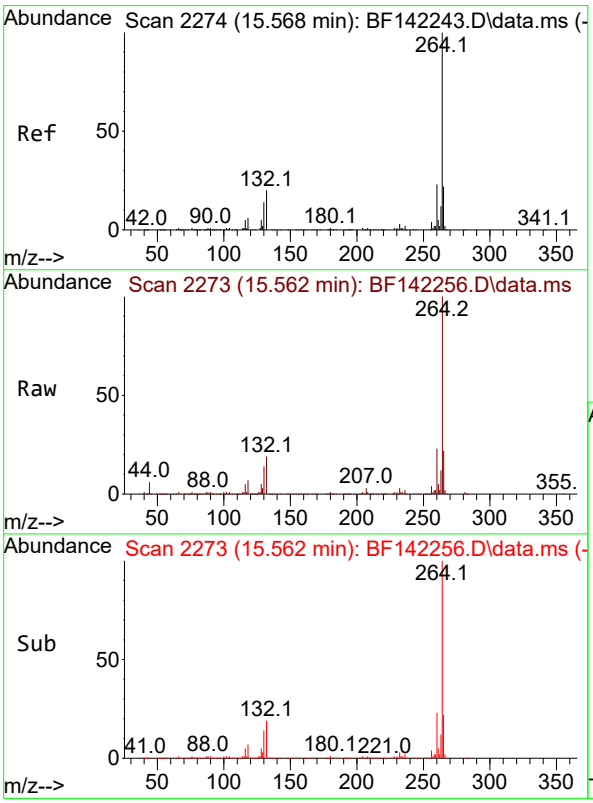
#79
Terphenyl-d14
Concen: 67.925 ng
RT: 13.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Instrument :
BNA_F
ClientSampleId :
PB167774TB

Tgt Ion:244 Resp: 2518381

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.9	9.1	13.7

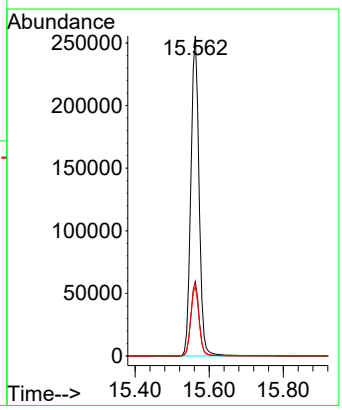




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142256.D
Acq: 01 May 2025 13:07

Tgt Ion:264 Resp: 394051

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.4	27.6
265	21.6	17.3	25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142276.D
Acq On : 02 May 2025 11:58
Operator : RC/JU
Sample : Q1901-08
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Time: May 02 12:28:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

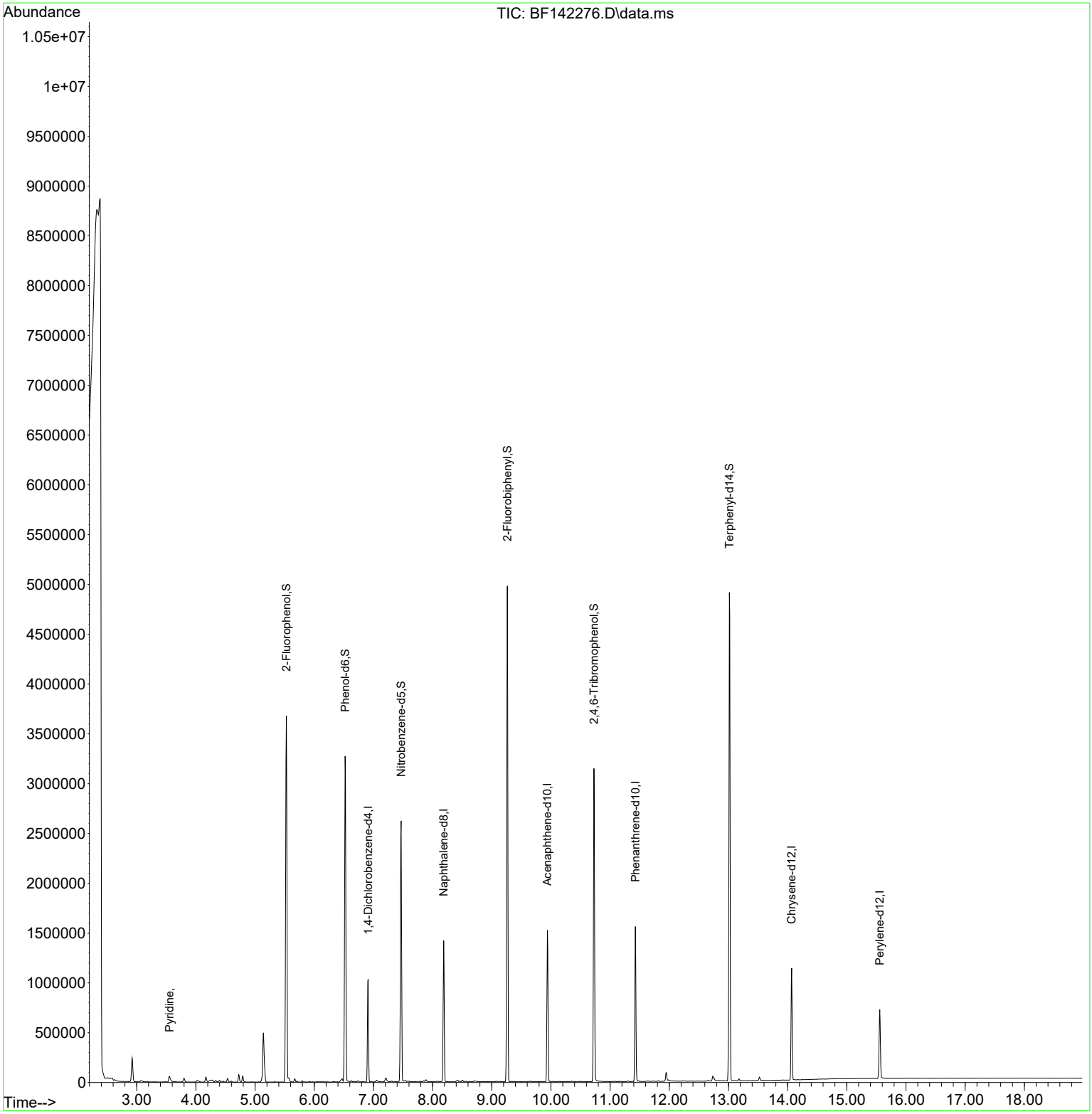
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	222553	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	840174	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	447329	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	769739	20.000	ng	0.00
76) Chrysene-d12	14.068	240	529430	20.000	ng	0.00
86) Perylene-d12	15.557	264	393063	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1438792	103.249	ng	0.01
7) Phenol-d6	6.522	99	1614400	95.937	ng	0.00
23) Nitrobenzene-d5	7.469	82	1129271	88.303	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	565380	138.641	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2216915	69.876	ng	0.00
79) Terphenyl-d14	13.016	244	2479112	68.104	ng	0.00
Target Compounds						Qvalue
3) Pyridine	3.551	79	38955	2.408	ng	98

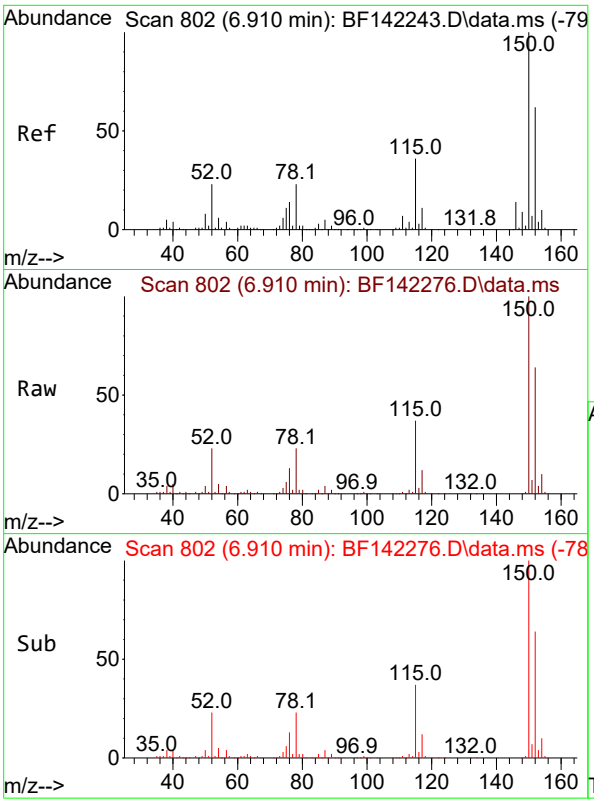
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142276.D
Acq On : 02 May 2025 11:58
Operator : RC/JU
Sample : Q1901-08
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Time: May 02 12:28:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



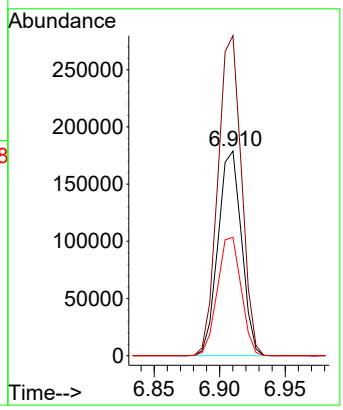


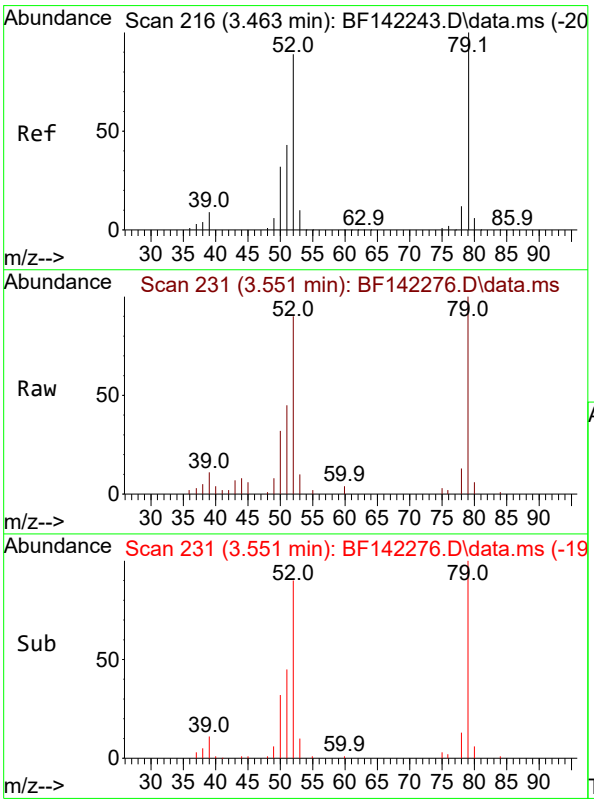
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:152 Resp: 222553

Ion	Ratio	Lower	Upper
152	100		
150	156.3	130.2	195.2
115	57.9	47.0	70.4

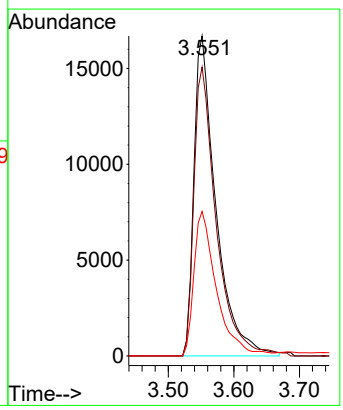


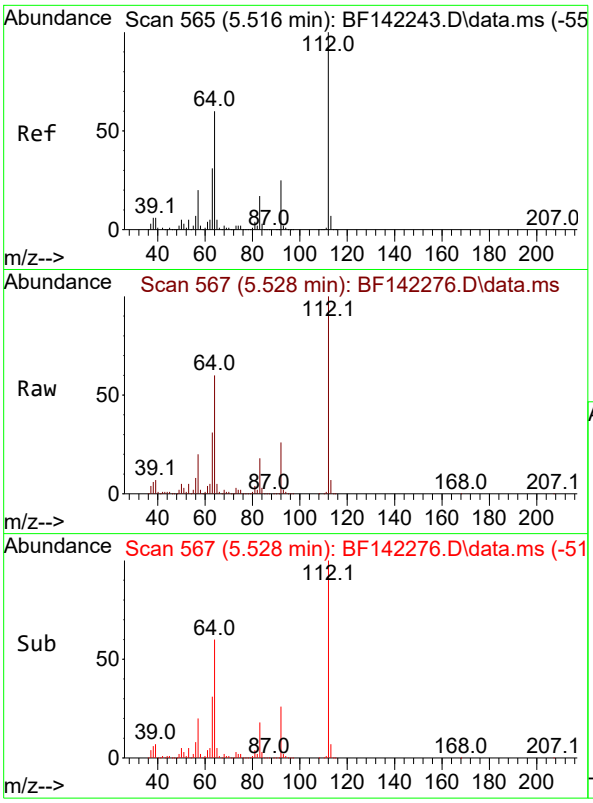


#3
Pyridine
Concen: 2.408 ng
RT: 3.551 min Scan# 231
Delta R.T. 0.088 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Tgt Ion: 79 Resp: 38955

Ion	Ratio	Lower	Upper
79	100		
52	90.2	71.5	107.3
51	45.2	34.5	51.7



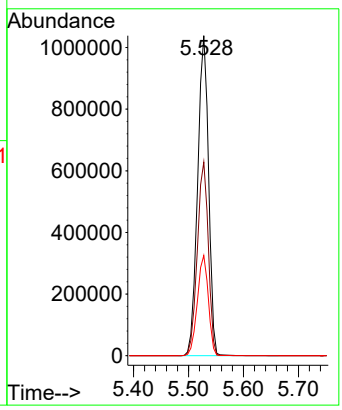


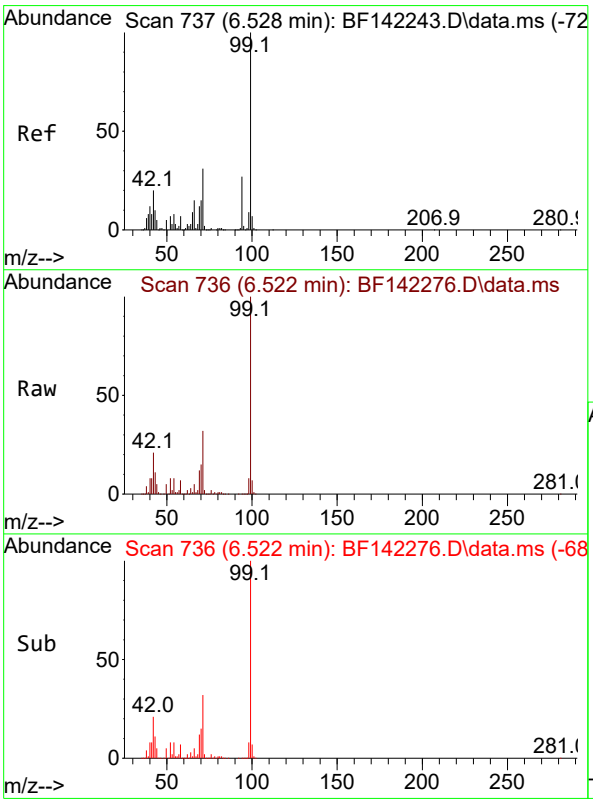
#5
2-Fluorophenol
Concen: 103.249 ng
RT: 5.528 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:112 Resp: 1438792

Ion	Ratio	Lower	Upper
112	100		
64	60.5	48.4	72.6
63	31.3	24.8	37.2

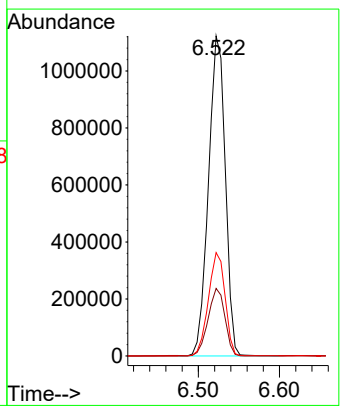


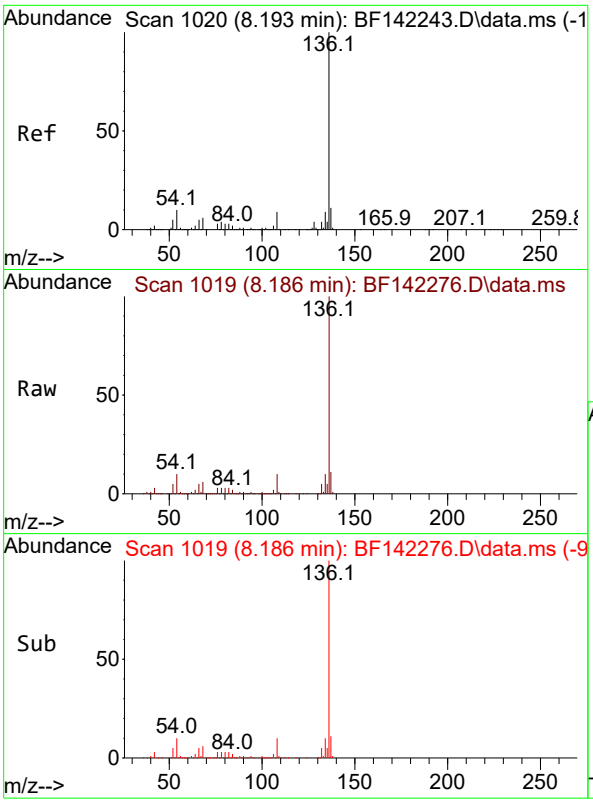


#7
Phenol-d6
Concen: 95.937 ng
RT: 6.522 min Scan# 736
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Tgt Ion: 99 Resp: 1614400

Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.3	24.5
71	32.3	25.0	37.4



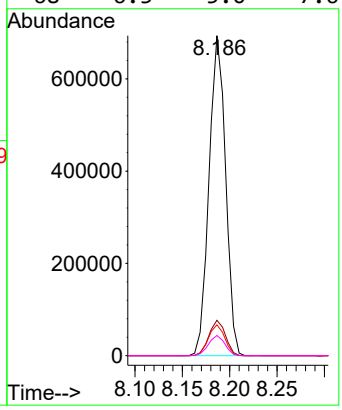


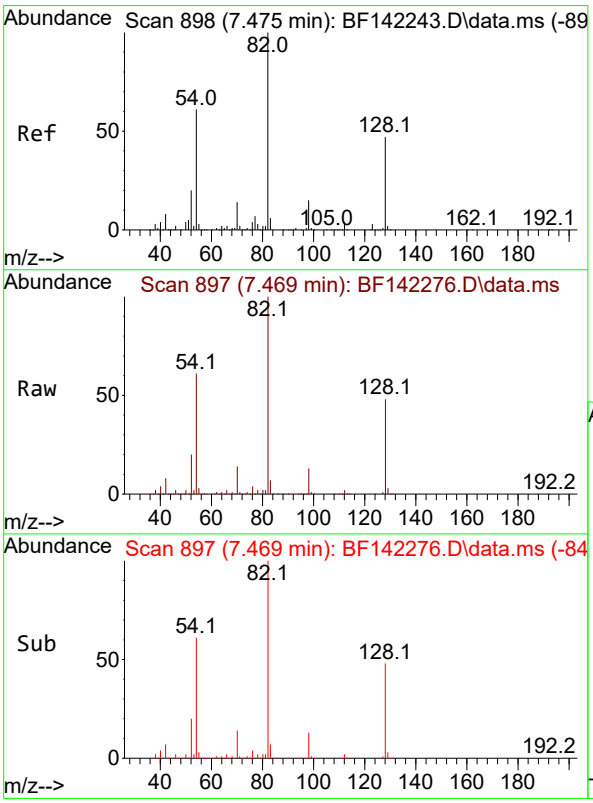
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.007 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:136 Resp: 840174

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	9.7	7.7	11.5
68	6.3	5.0	7.6

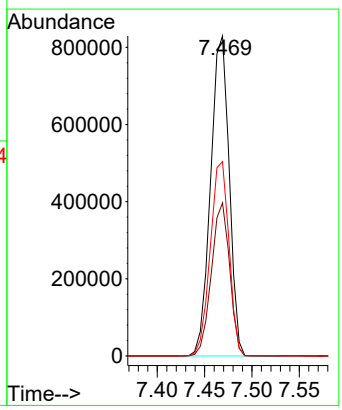


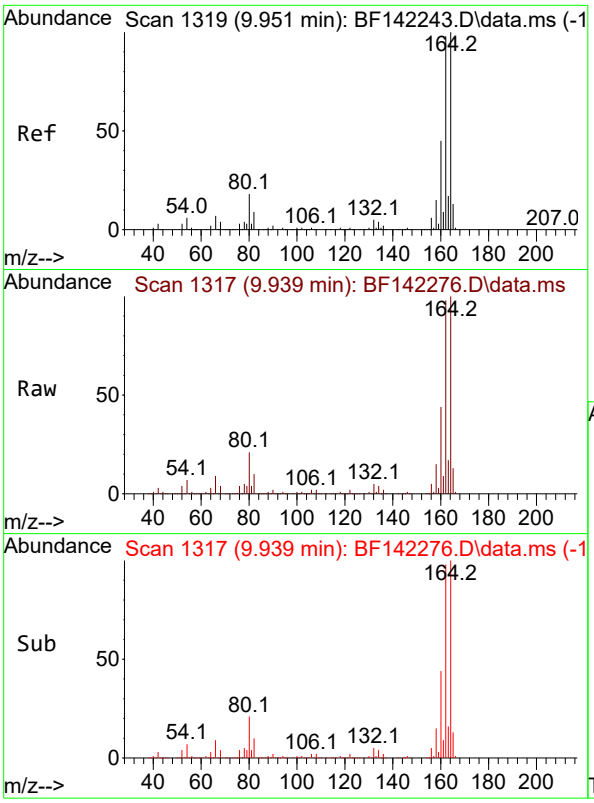


#23
Nitrobenzene-d5
Concen: 88.303 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Tgt Ion: 82 Resp: 1129271

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.0	55.6
54	60.7	48.0	72.0



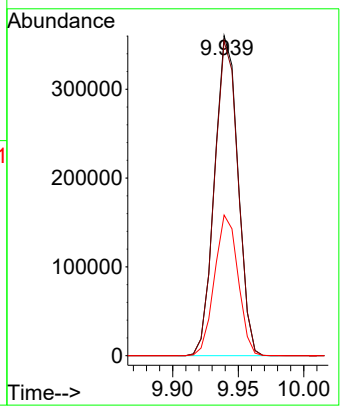


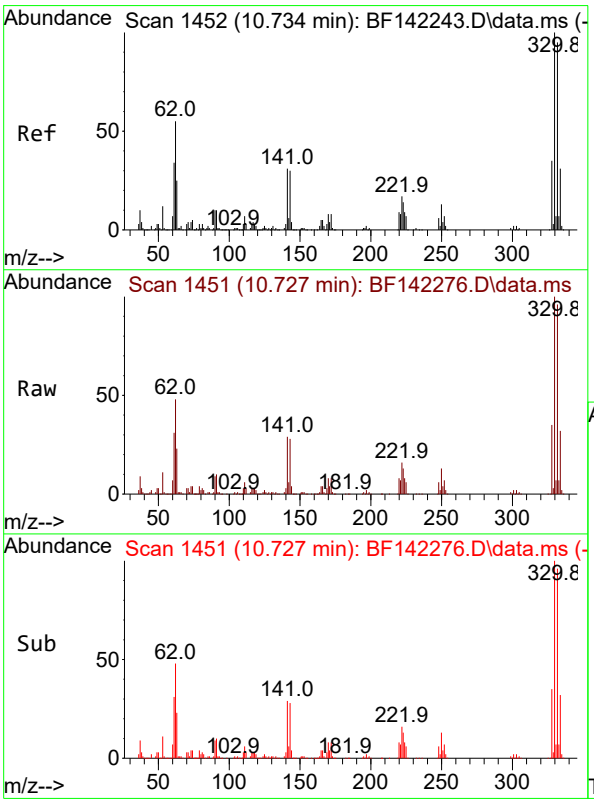
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:164 Resp: 447329

Ion	Ratio	Lower	Upper
164	100		
162	98.3	78.6	117.8
160	43.9	35.7	53.5

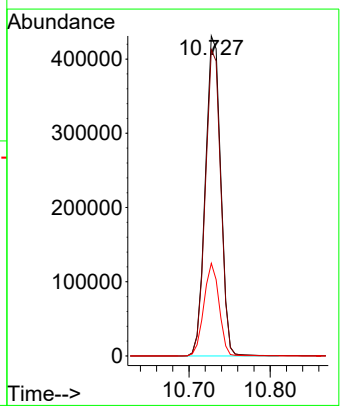


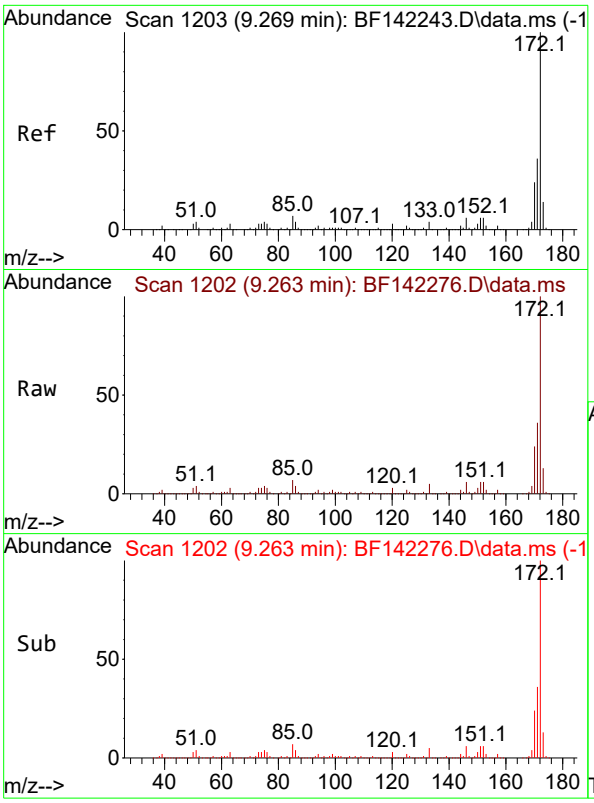


#42
2,4,6-Tribromophenol
Concen: 138.641 ng
RT: 10.727 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Tgt Ion:330 Resp: 565380

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.5	114.7
141	28.8	24.3	36.5



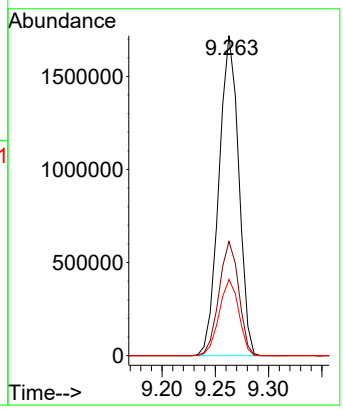


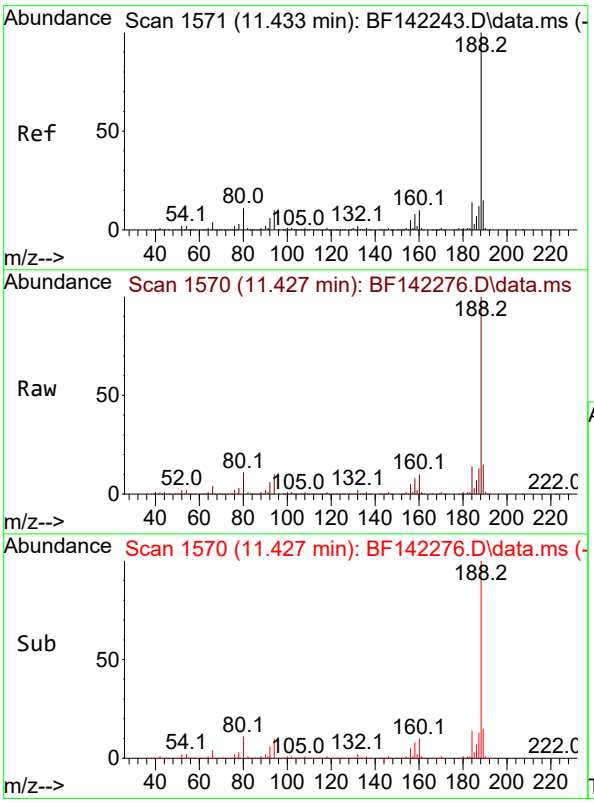
#45
2-Fluorobiphenyl
Concen: 69.876 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:172 Resp: 2216915

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.8	19.4	29.0

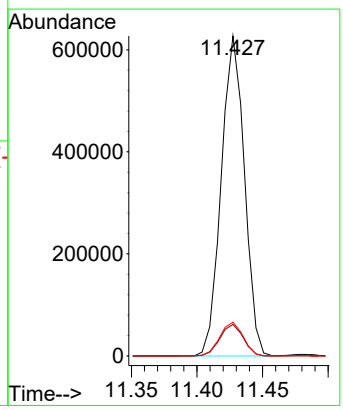


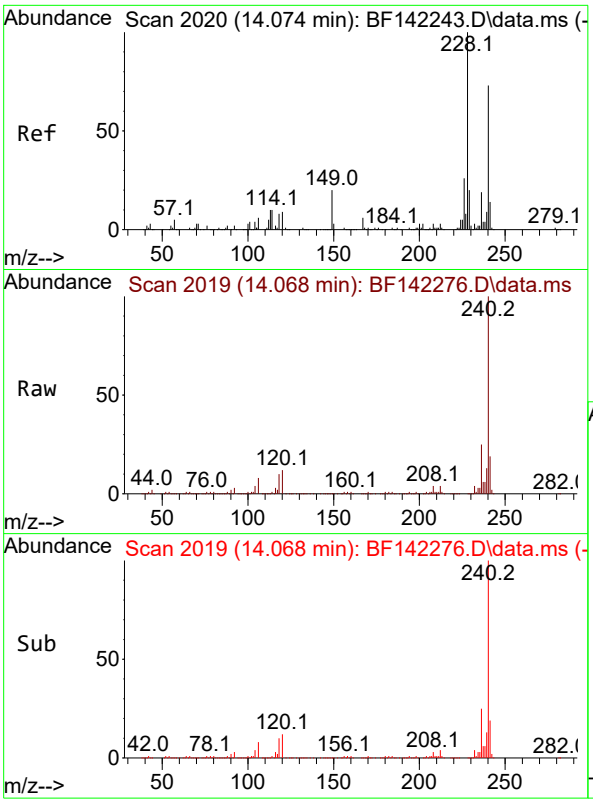


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Tgt Ion:188 Resp: 769739

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.6	8.6	12.8



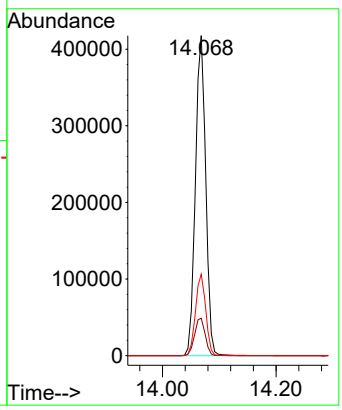


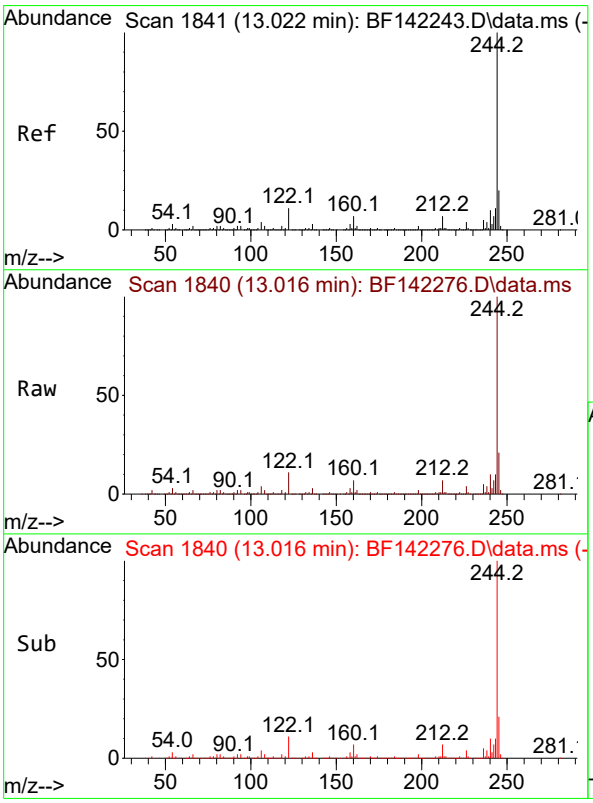
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:240 Resp: 529430

Ion	Ratio	Lower	Upper
240	100		
120	11.7	10.1	15.1
236	25.5	20.5	30.7

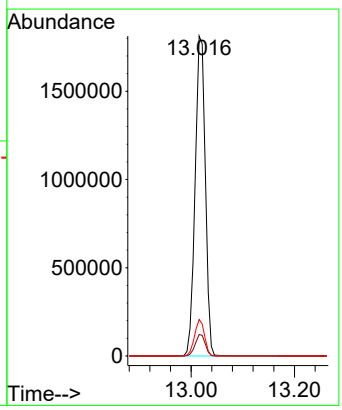


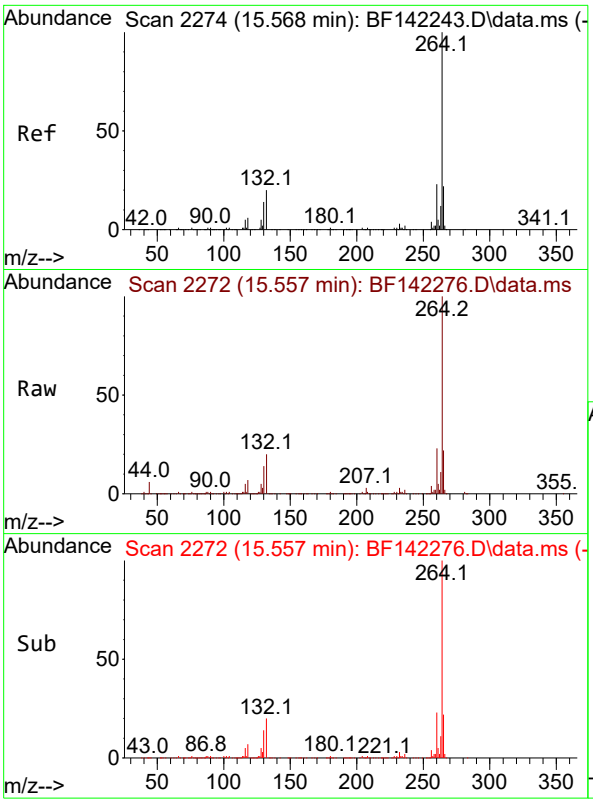


#79
Terphenyl-d14
Concen: 68.104 ng
RT: 13.016 min Scan# 1840
Delta R.T. -0.006 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Tgt Ion:244 Resp: 2479112

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	11.4	9.1	13.7



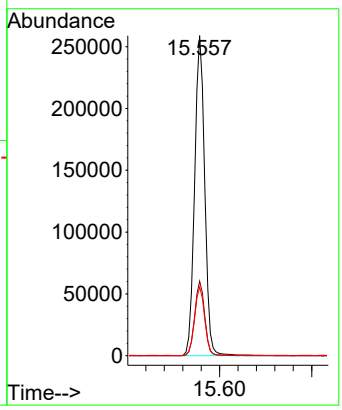


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142276.D
Acq: 02 May 2025 11:58

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Tgt Ion:264 Resp: 393063

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.4	27.6
265	21.5	17.3	25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142279.D
Acq On : 02 May 2025 13:24
Operator : RC/JU
Sample : Q1901-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Quant Time: May 02 14:19:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

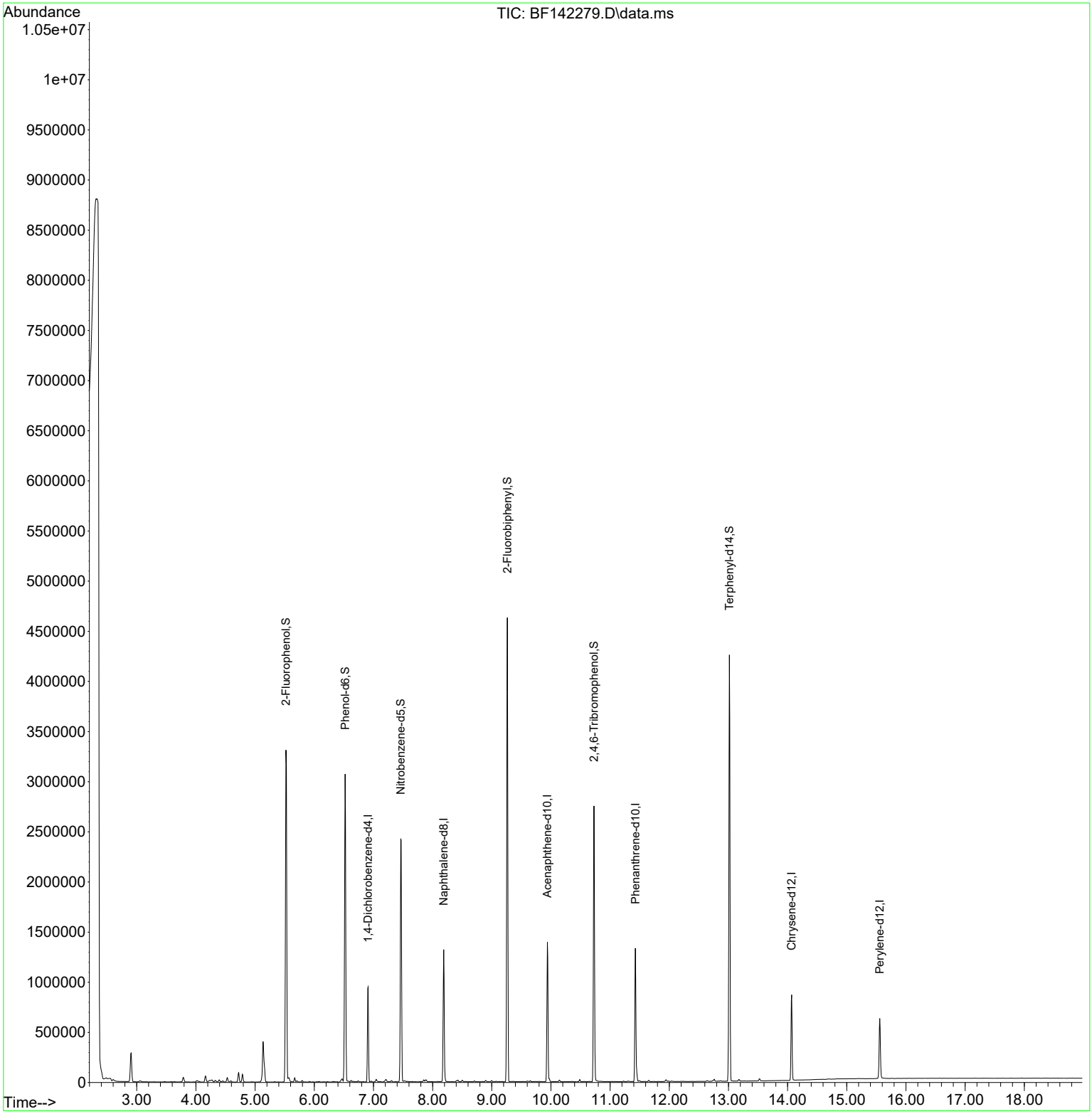
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	207050	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	786560	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	402861	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	662438	20.000	ng	0.00
76) Chrysene-d12	14.068	240	411304	20.000	ng	0.00
86) Perylene-d12	15.557	264	344110	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1304723	100.639	ng	0.00
7) Phenol-d6	6.522	99	1455008	92.939	ng	0.00
23) Nitrobenzene-d5	7.463	82	1050218	87.719	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	478989	130.421	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2020679	70.721	ng	0.00
79) Terphenyl-d14	13.016	244	2048893	72.451	ng	0.00
Target Compounds						Qvalue

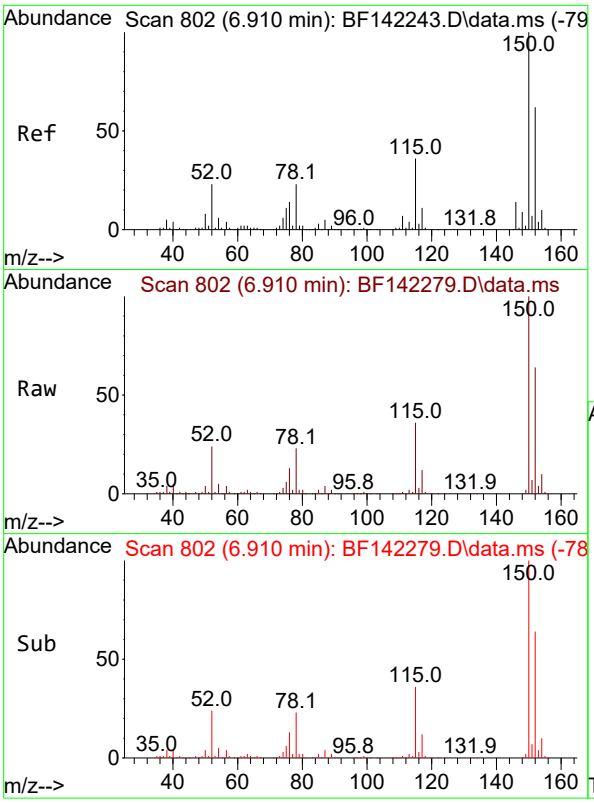
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142279.D
Acq On : 02 May 2025 13:24
Operator : RC/JU
Sample : Q1901-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Quant Time: May 02 14:19:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



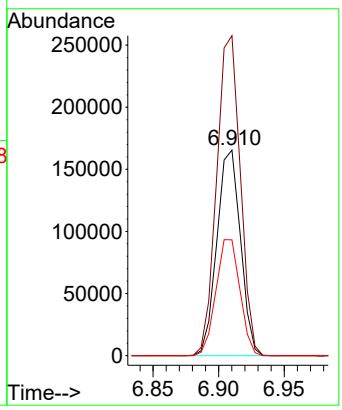


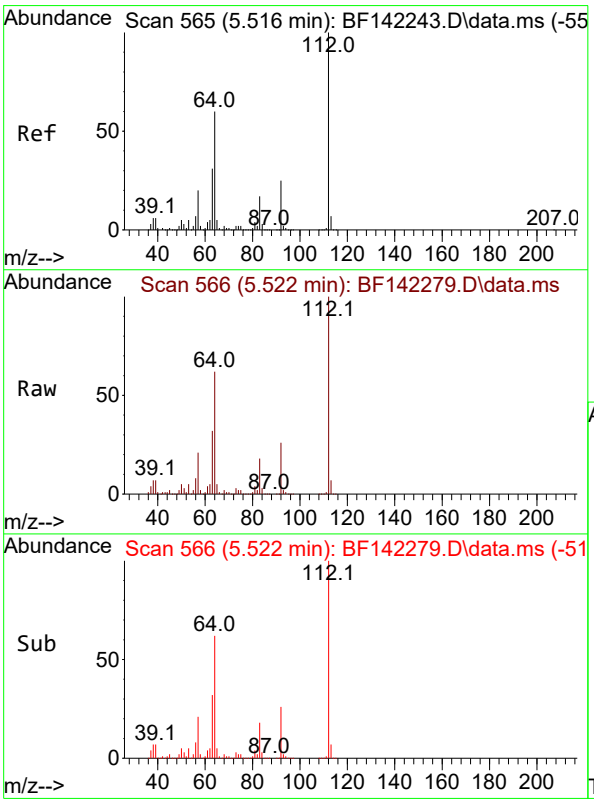
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Tgt Ion:152 Resp: 207050

Ion	Ratio	Lower	Upper
152	100		
150	155.6	130.2	195.2
115	56.4	47.0	70.4

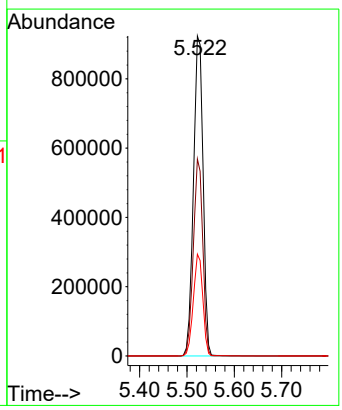




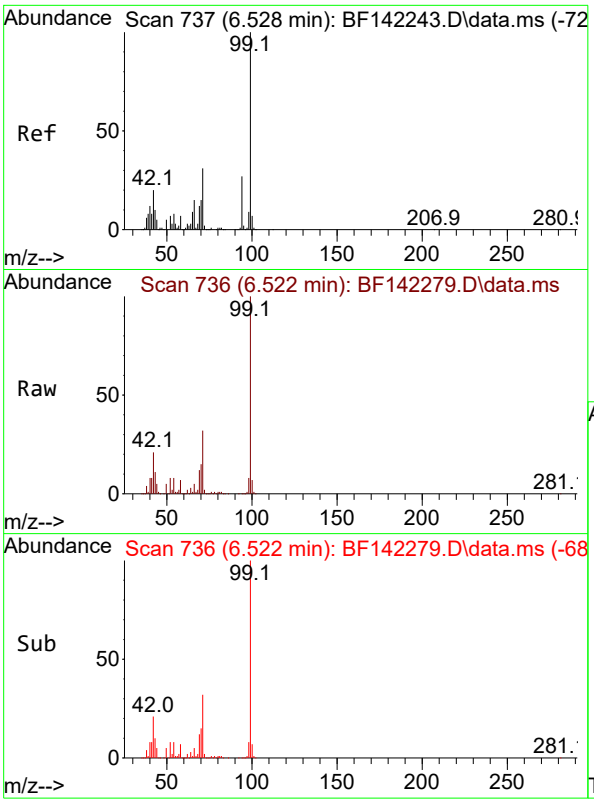
#5
2-Fluorophenol
Concen: 100.639 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion:112 Resp: 1304723

Ion	Ratio	Lower	Upper
112	100		
64	61.5	48.4	72.6
63	31.8	24.8	37.2



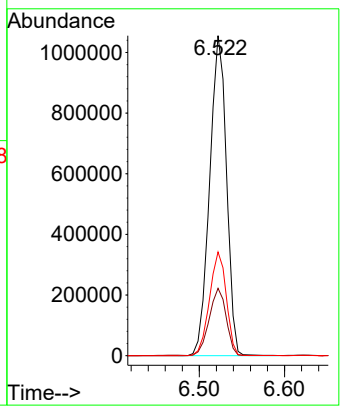
Instrument :
BNA_F
ClientSampleId :
B-170-SB01

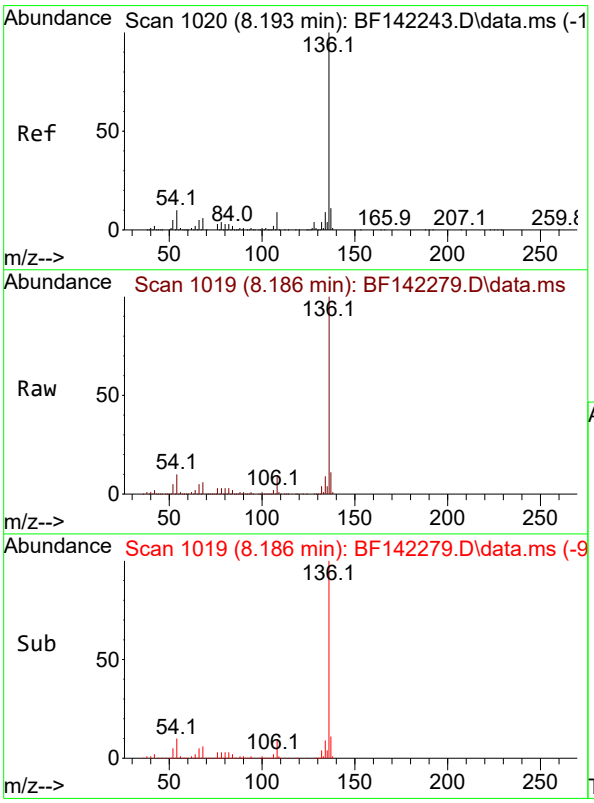


#7
Phenol-d6
Concen: 92.939 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion: 99 Resp: 1455008

Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.3	24.5
71	32.4	25.0	37.4

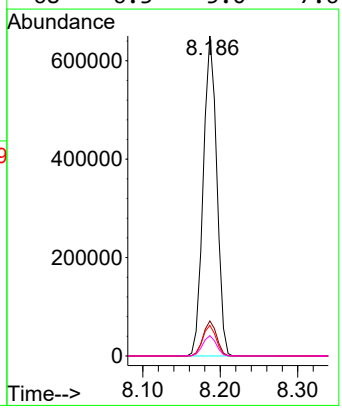


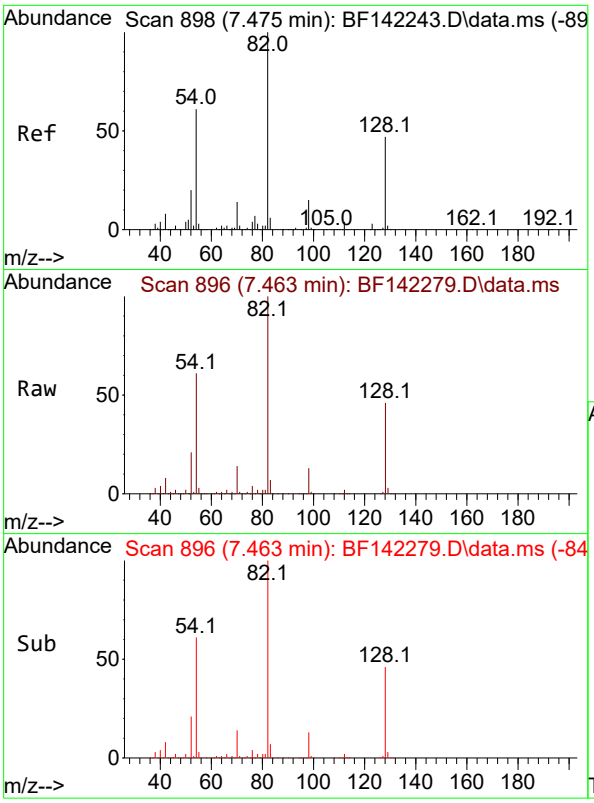


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.007 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion:136 Resp: 786560

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.6	7.7	11.5
68	6.3	5.0	7.6



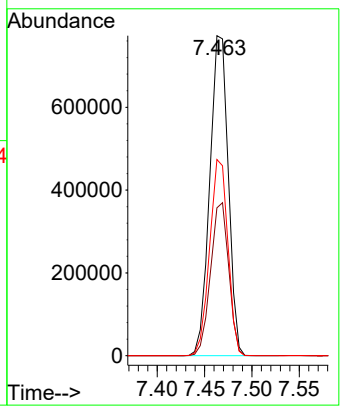


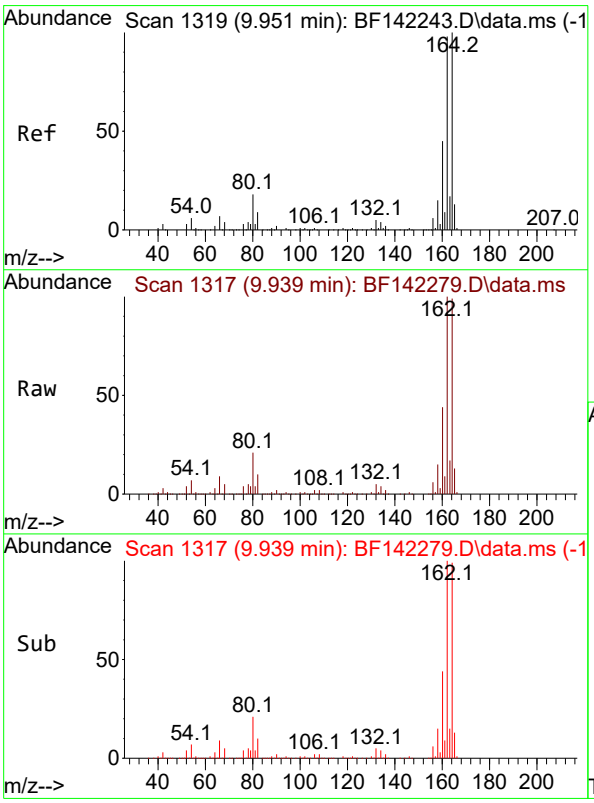
#23
Nitrobenzene-d5
Concen: 87.719 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Tgt Ion: 82 Resp: 1050218

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.0	55.6
54	61.3	48.0	72.0

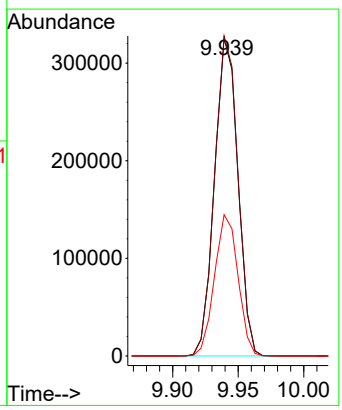


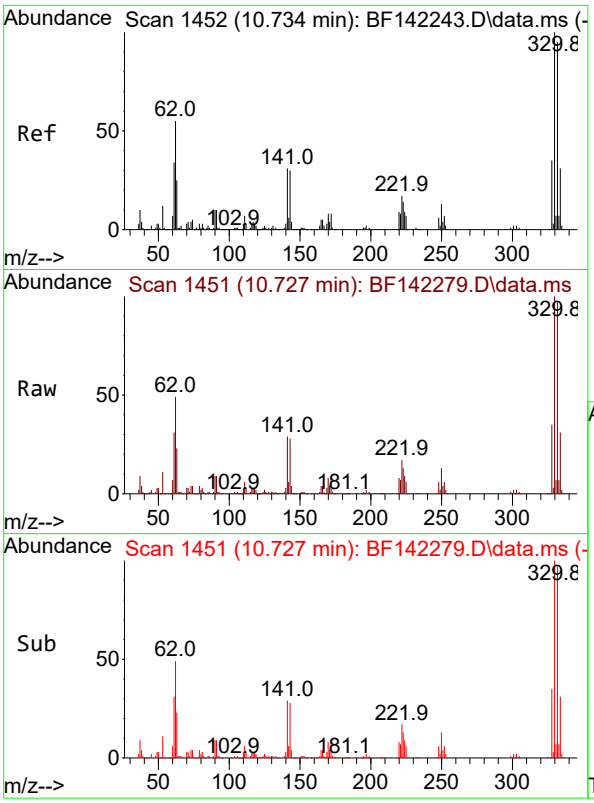


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion:164 Resp: 402861

Ion	Ratio	Lower	Upper
164	100		
162	100.7	78.6	117.8
160	44.5	35.7	53.5



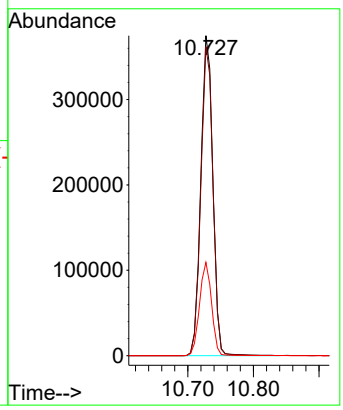


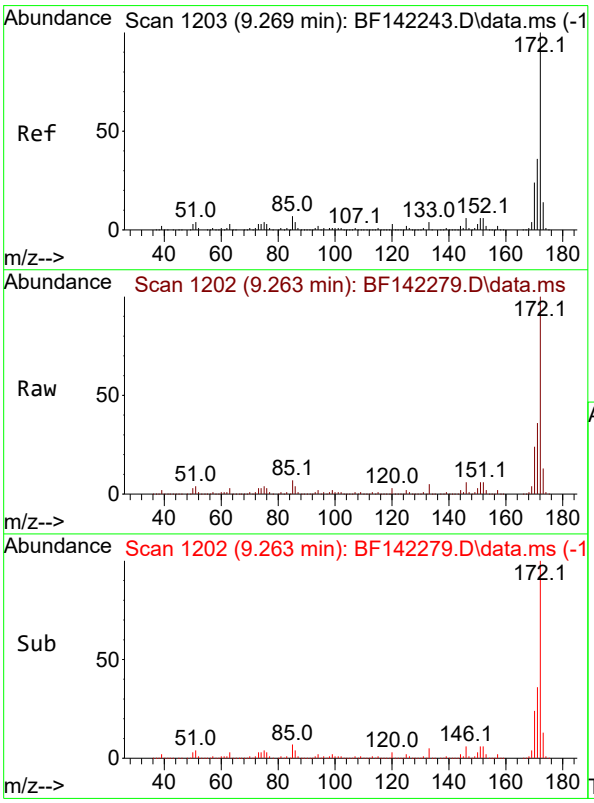
#42
2,4,6-Tribromophenol
Concen: 130.421 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Tgt Ion:330 Resp: 478989

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.5	114.7
141	29.2	24.3	36.5

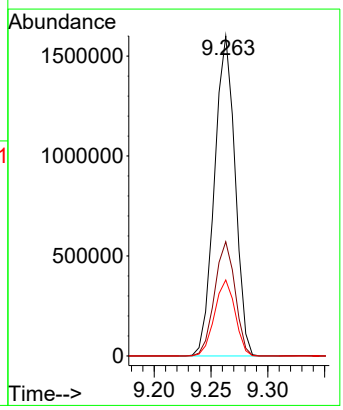


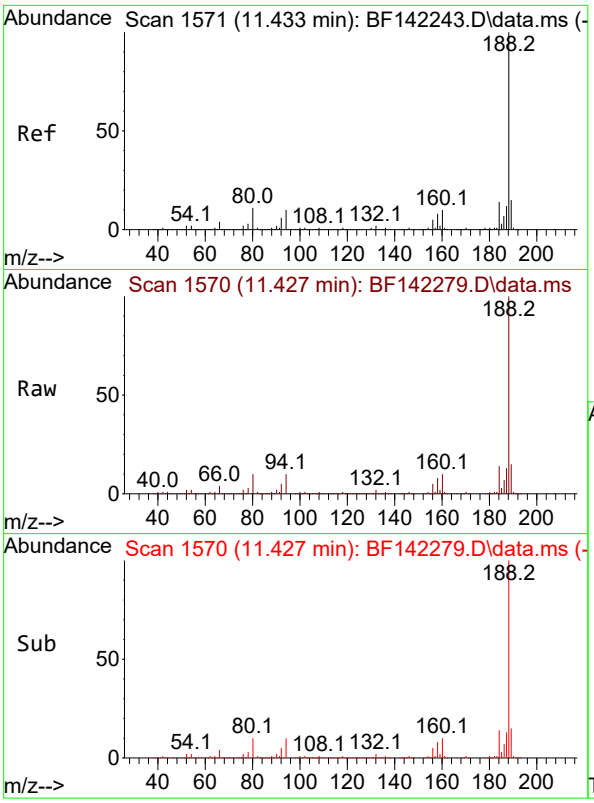


#45
2-Fluorobiphenyl
Concen: 70.721 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion:172 Resp: 2020679

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.8	19.4	29.0



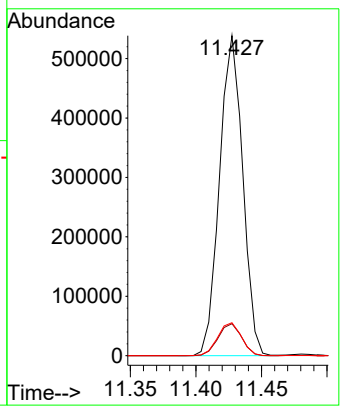


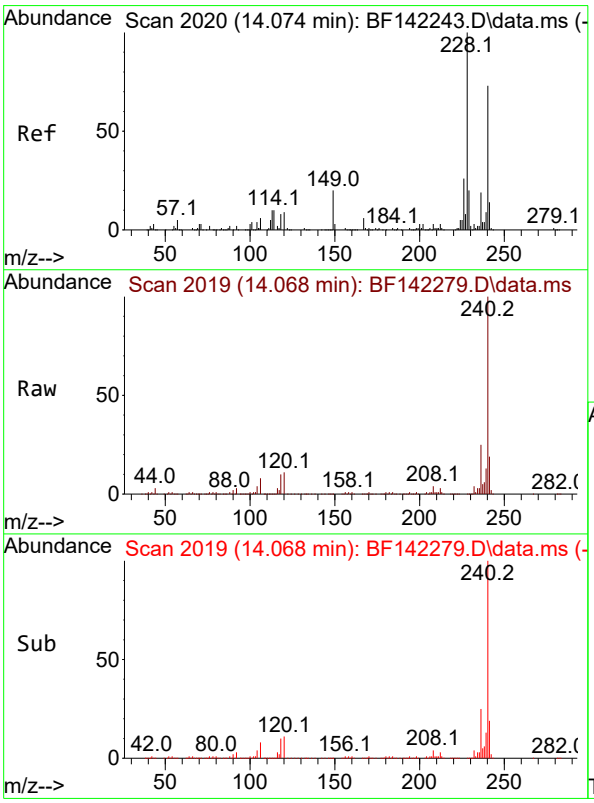
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Tgt Ion:188 Resp: 662438

Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.2	12.2
80	10.3	8.6	12.8

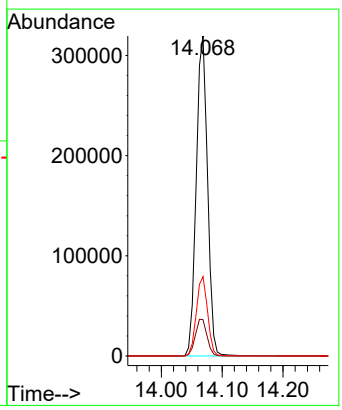


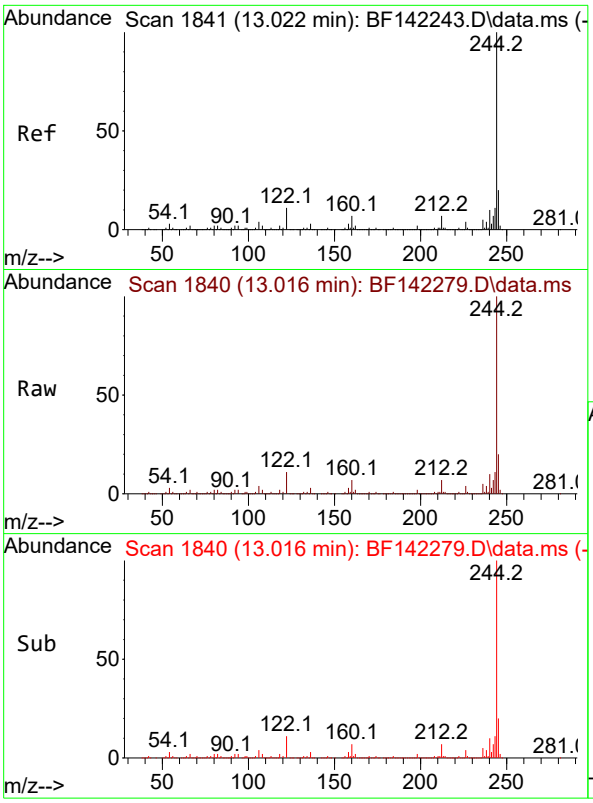


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion:240 Resp: 411304

Ion	Ratio	Lower	Upper
240	100		
120	11.4	10.1	15.1
236	24.8	20.5	30.7



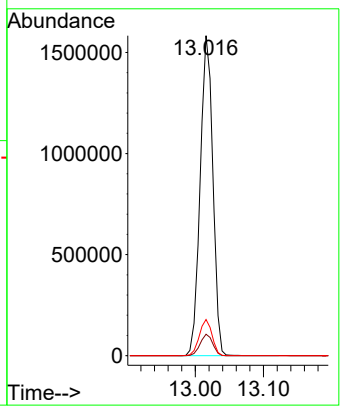


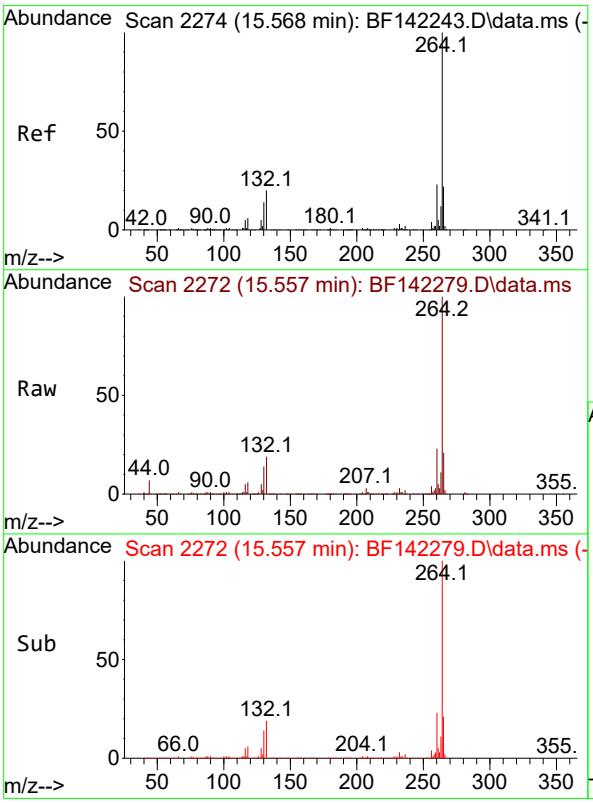
#79
Terphenyl-d14
Concen: 72.451 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Instrument :
BNA_F
ClientSampleId :
B-170-SB01

Tgt Ion:244 Resp: 2048893

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	11.3	9.1	13.7

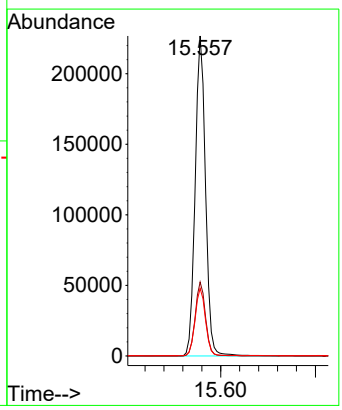




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142279.D
Acq: 02 May 2025 13:24

Tgt Ion:264 Resp: 344110

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.4	27.6
265	21.1	17.3	25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142280.D
Acq On : 02 May 2025 13:53
Operator : RC/JU
Sample : Q1901-10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Time: May 02 14:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

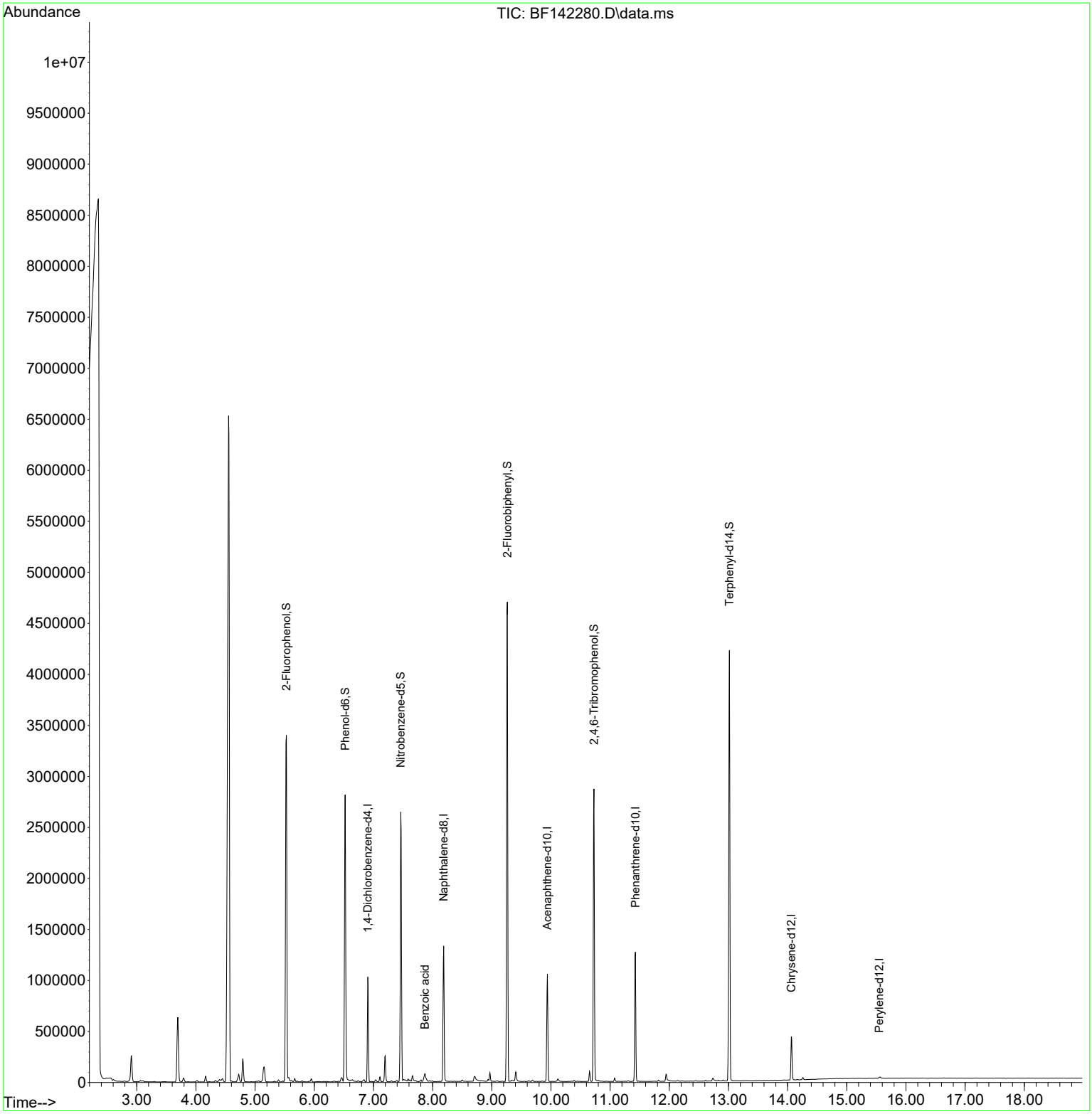
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	215163	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	812217	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	266125	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	611583	20.000	ng	0.00
76) Chrysene-d12	14.063	240	154727	20.000	ng	-0.01
86) Perylene-d12	15.551	264	3229	20.000	ng	#-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1362221	101.112	ng	0.01
7) Phenol-d6	6.522	99	1145189	70.391	ng	0.00
23) Nitrobenzene-d5	7.463	82	1114602	90.156	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	514497	212.068	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2159177	114.396	ng	0.00
79) Terphenyl-d14	13.016	244	1928369	181.263	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	7.869	122	28398	14.343	ng	100

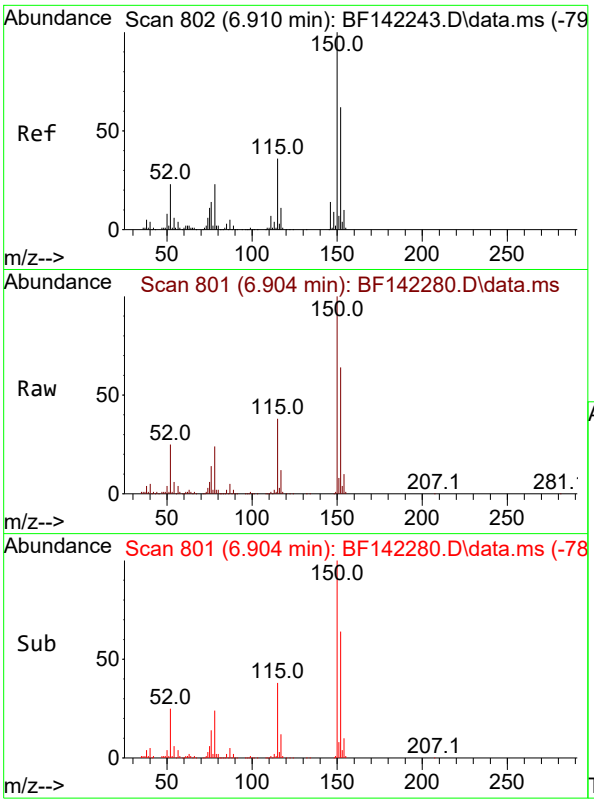
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142280.D
Acq On : 02 May 2025 13:53
Operator : RC/JU
Sample : Q1901-10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Time: May 02 14:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



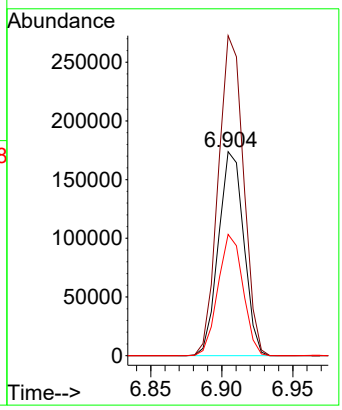


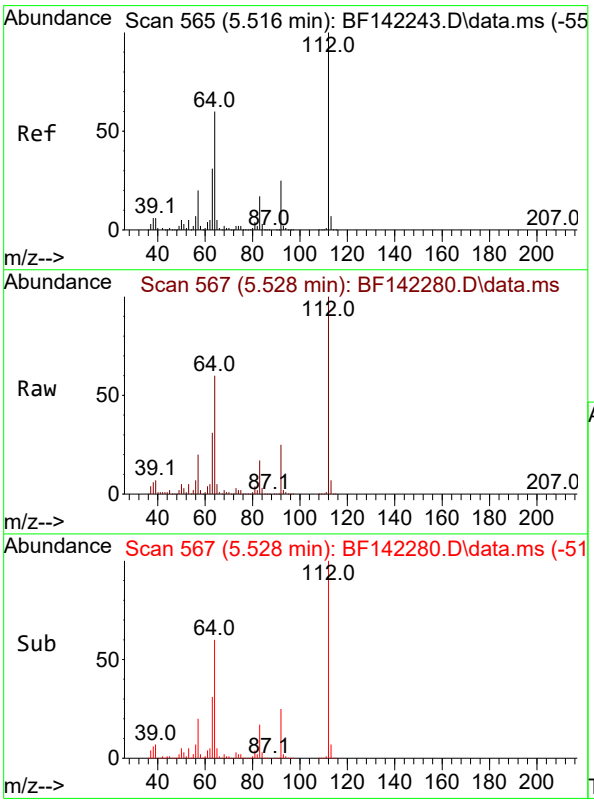
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:152 Resp: 215163

Ion	Ratio	Lower	Upper
152	100		
150	156.8	130.2	195.2
115	59.4	47.0	70.4

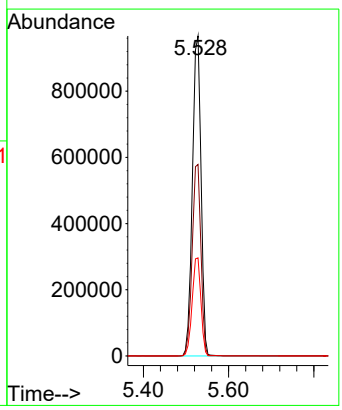


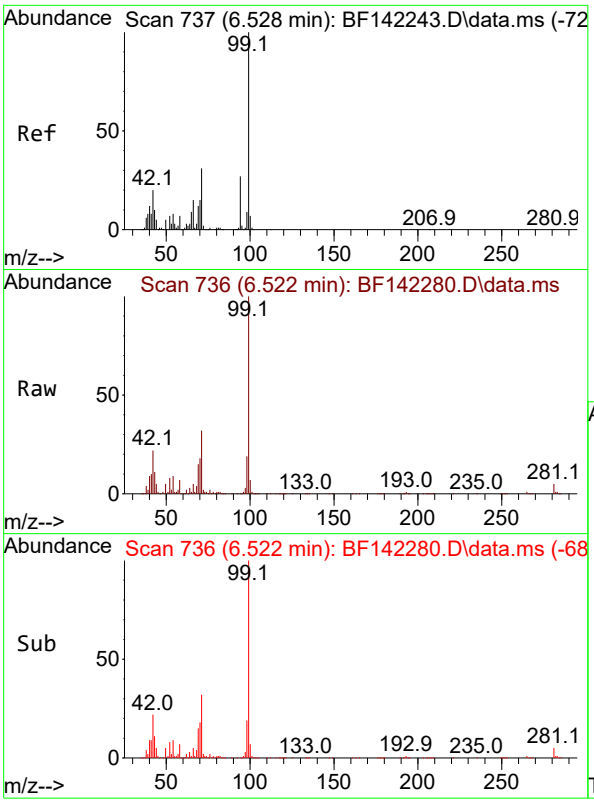


#5
2-Fluorophenol
Concen: 101.112 ng
RT: 5.528 min Scan# 567
Delta R.T. 0.012 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion:112 Resp: 1362221

Ion	Ratio	Lower	Upper
112	100		
64	59.8	48.4	72.6
63	30.7	24.8	37.2



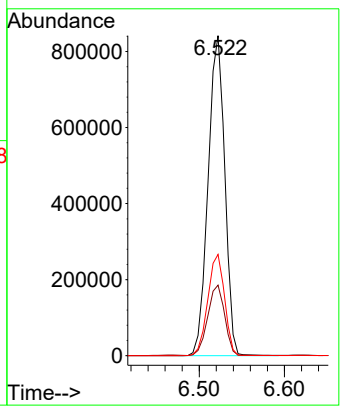


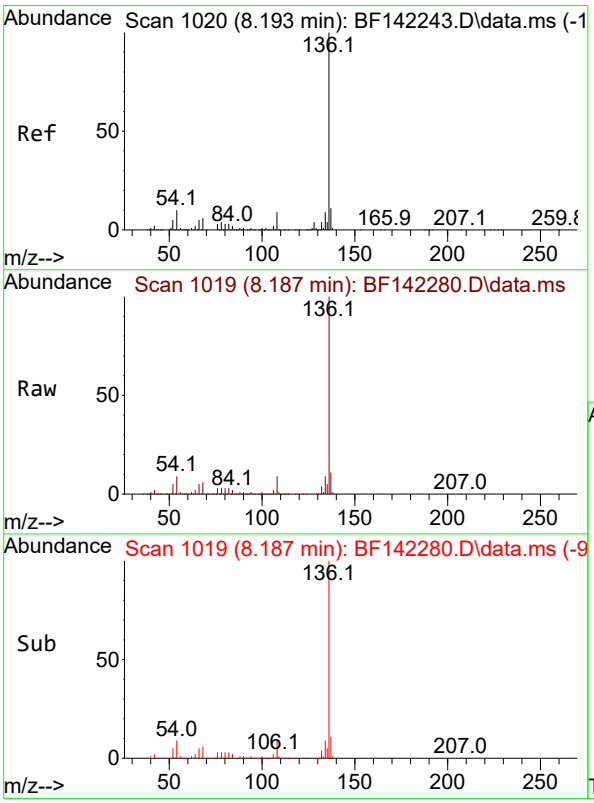
#7
Phenol-d6
Concen: 70.391 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion: 99 Resp: 1145189

Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.3	24.5
71	31.6	25.0	37.4

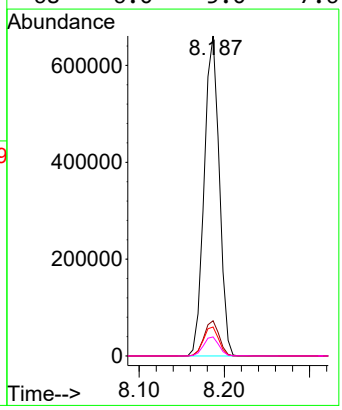




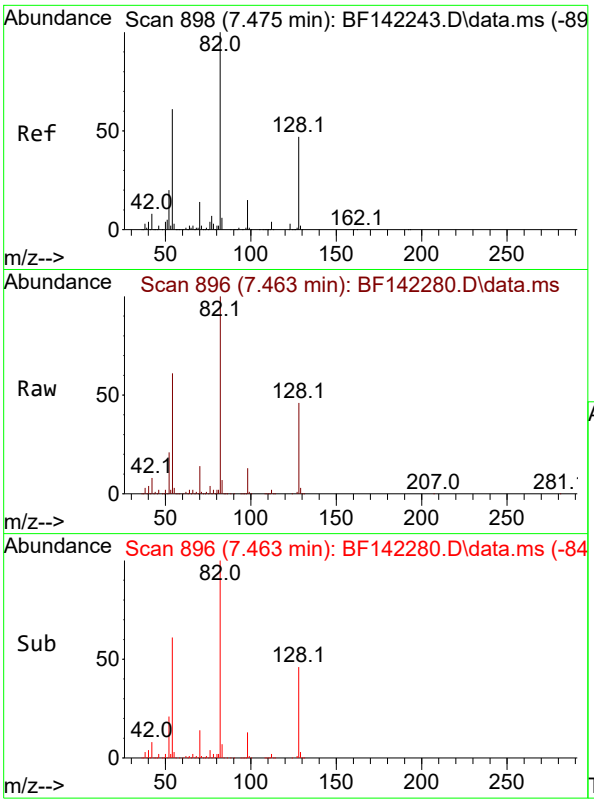
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion:136 Resp: 812217

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.0	7.7	11.5
68	6.0	5.0	7.6



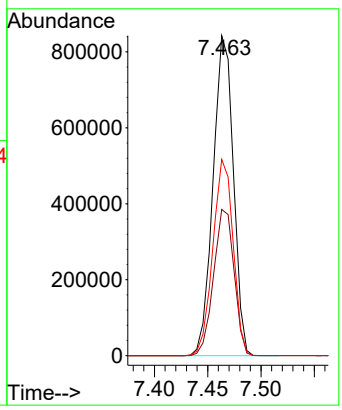
Instrument :
BNA_F
ClientSampleId :
B-167-SB02

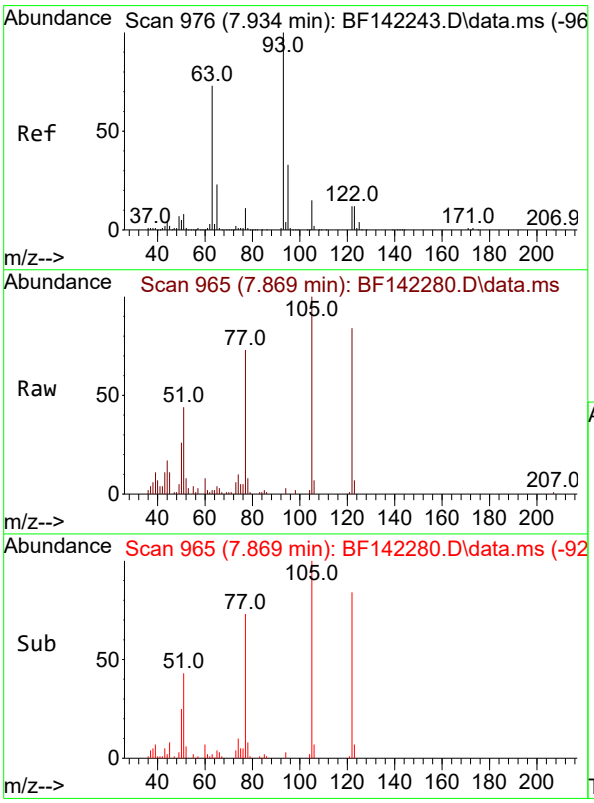


#23
Nitrobenzene-d5
Concen: 90.156 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion: 82 Resp: 1114602

Ion	Ratio	Lower	Upper
82	100		
128	45.7	37.0	55.6
54	61.4	48.0	72.0

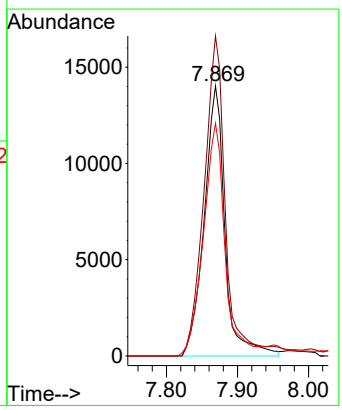


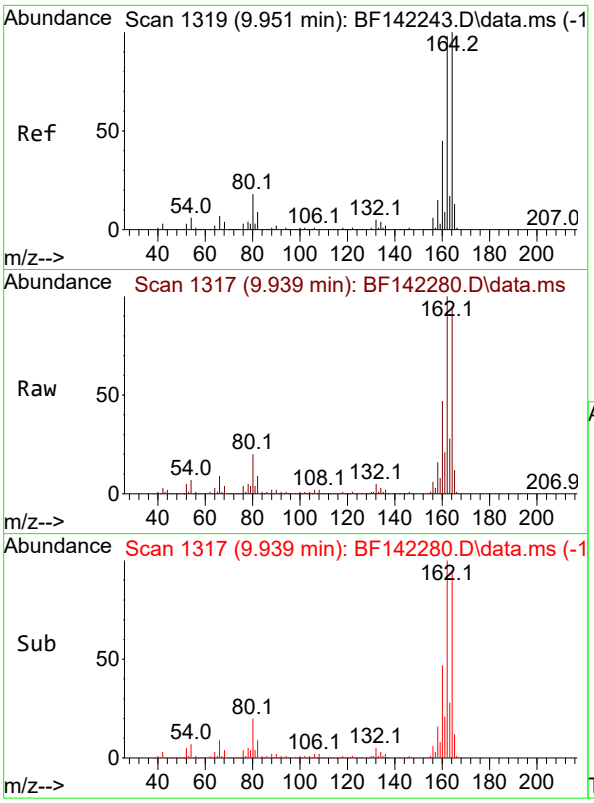


#32
Benzoic acid
Concen: 14.343 ng
RT: 7.869 min Scan# 965
Delta R.T. -0.065 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion:122 Resp: 28398

Ion	Ratio	Lower	Upper
122	100		
105	118.5	98.2	138.2
77	86.1	66.8	106.8



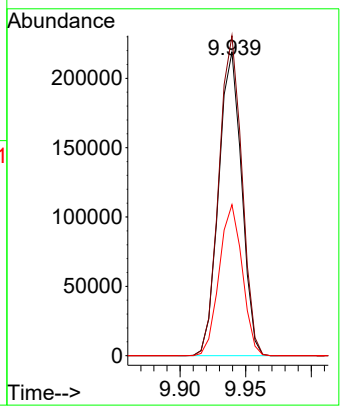


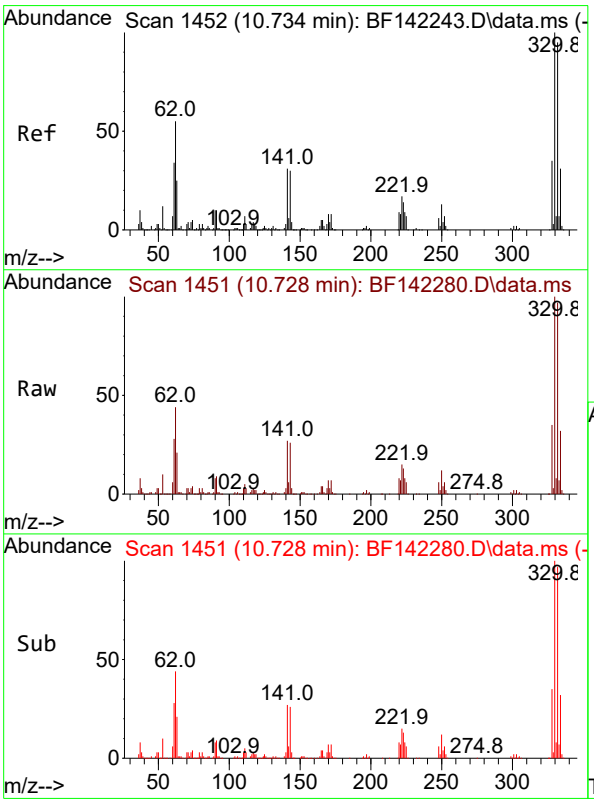
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:164 Resp: 266125

Ion	Ratio	Lower	Upper
164	100		
162	105.4	78.6	117.8
160	49.7	35.7	53.5

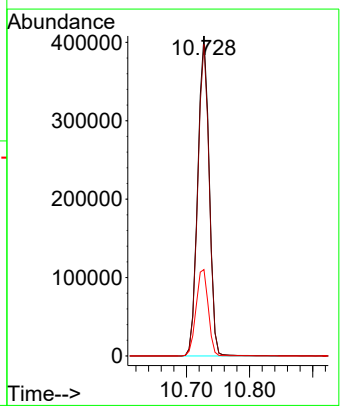


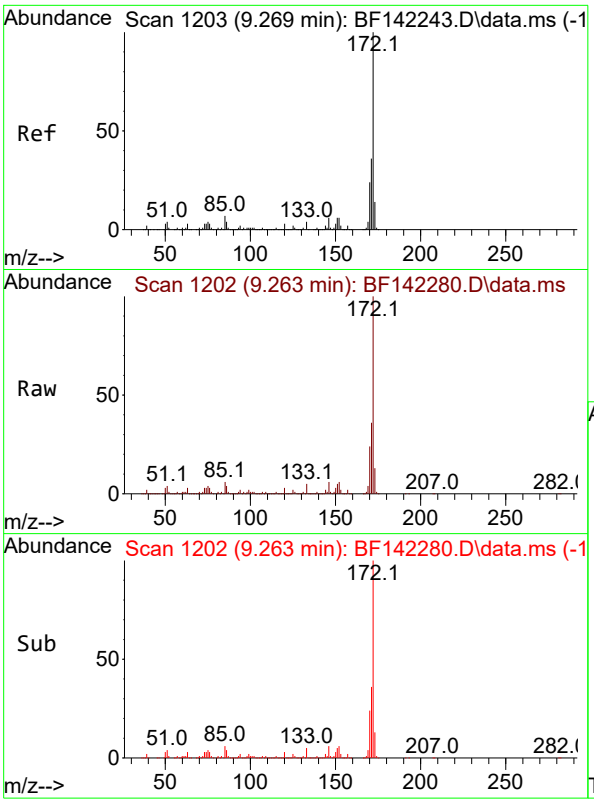


#42
2,4,6-Tribromophenol
Concen: 212.068 ng
RT: 10.728 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion:330 Resp: 514497

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.5	114.7
141	28.7	24.3	36.5



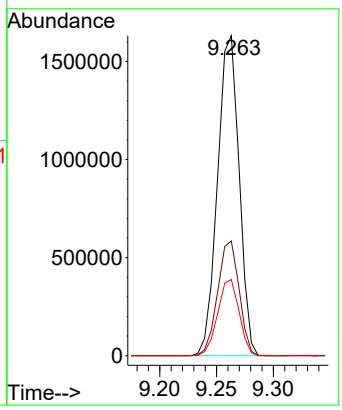


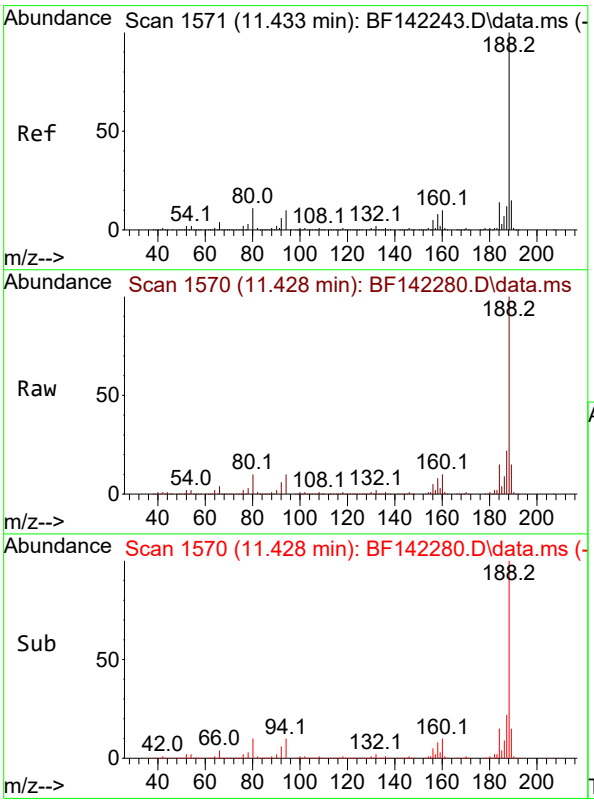
#45
2-Fluorobiphenyl
Concen: 114.396 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:172 Resp: 2159177

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	23.8	19.4	29.0

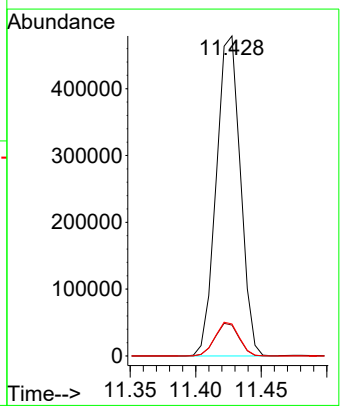


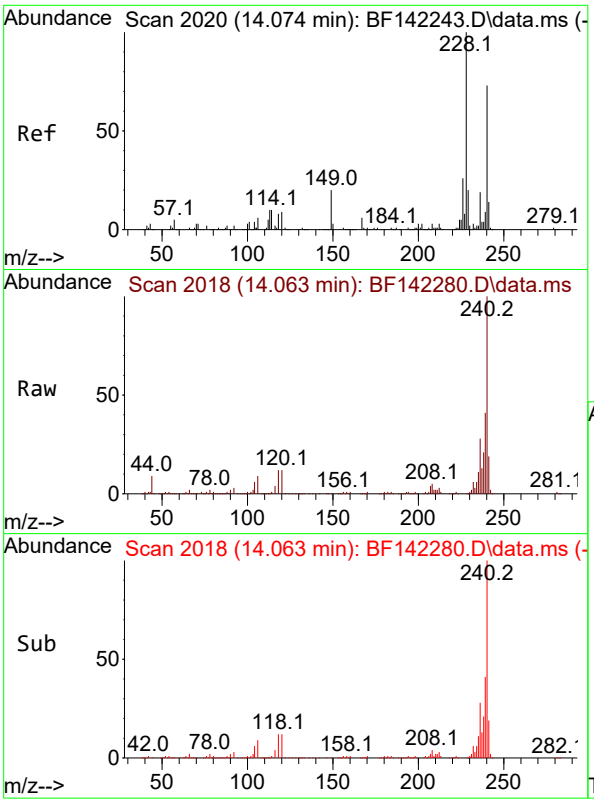


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion:188 Resp: 611583

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.2	12.2
80	10.0	8.6	12.8



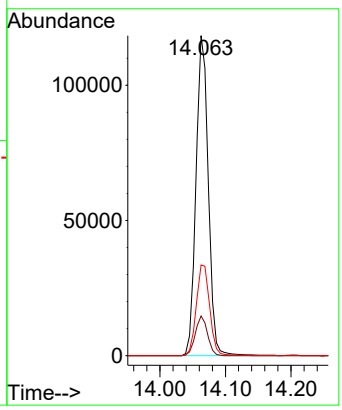


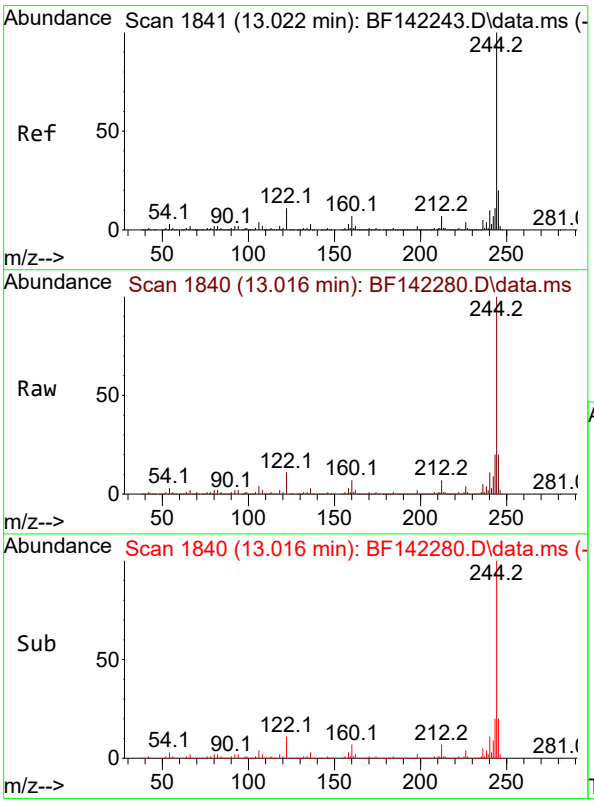
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:240 Resp: 154727

Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.1	15.1
236	28.4	20.5	30.7

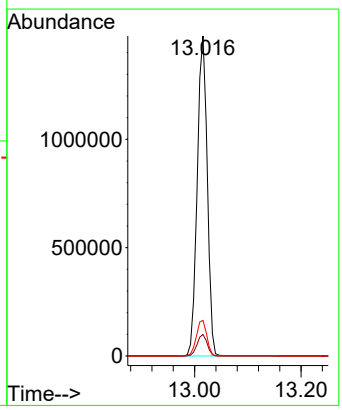


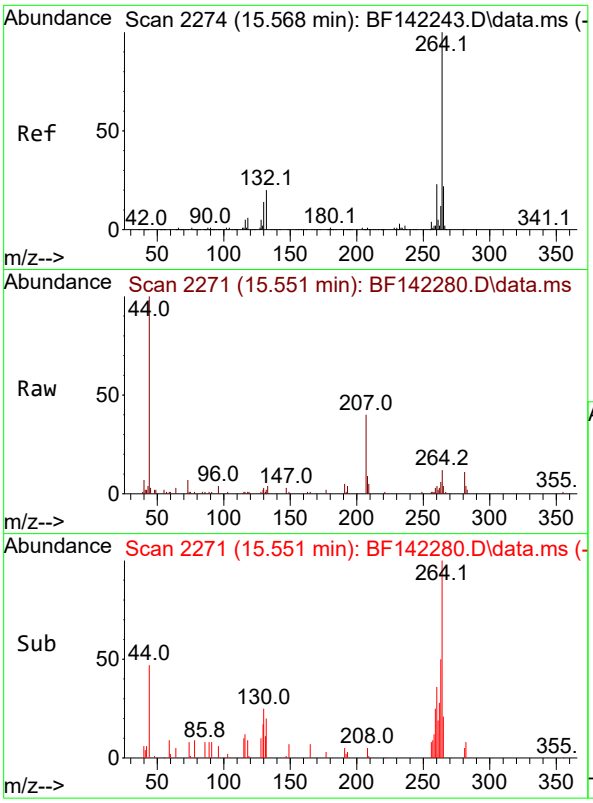


#79
Terphenyl-d14
Concen: 181.263 ng
RT: 13.016 min Scan# 1840
Delta R.T. -0.006 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Tgt Ion:244 Resp: 1928369

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	11.1	9.1	13.7



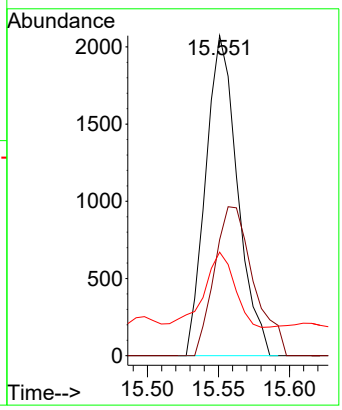


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142280.D
Acq: 02 May 2025 13:53

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:264 Resp: 3229

Ion	Ratio	Lower	Upper
264	100		
260	36.3	18.4	27.6#
265	32.4	17.3	25.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP050525\
Data File : BP024529.D
Acq On : 05 May 2025 17:26
Operator : RC/JU
Sample : Q1901-10RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Quant Time: May 05 18:21:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP041425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 18 12:04:48 2025
Response via : Initial Calibration

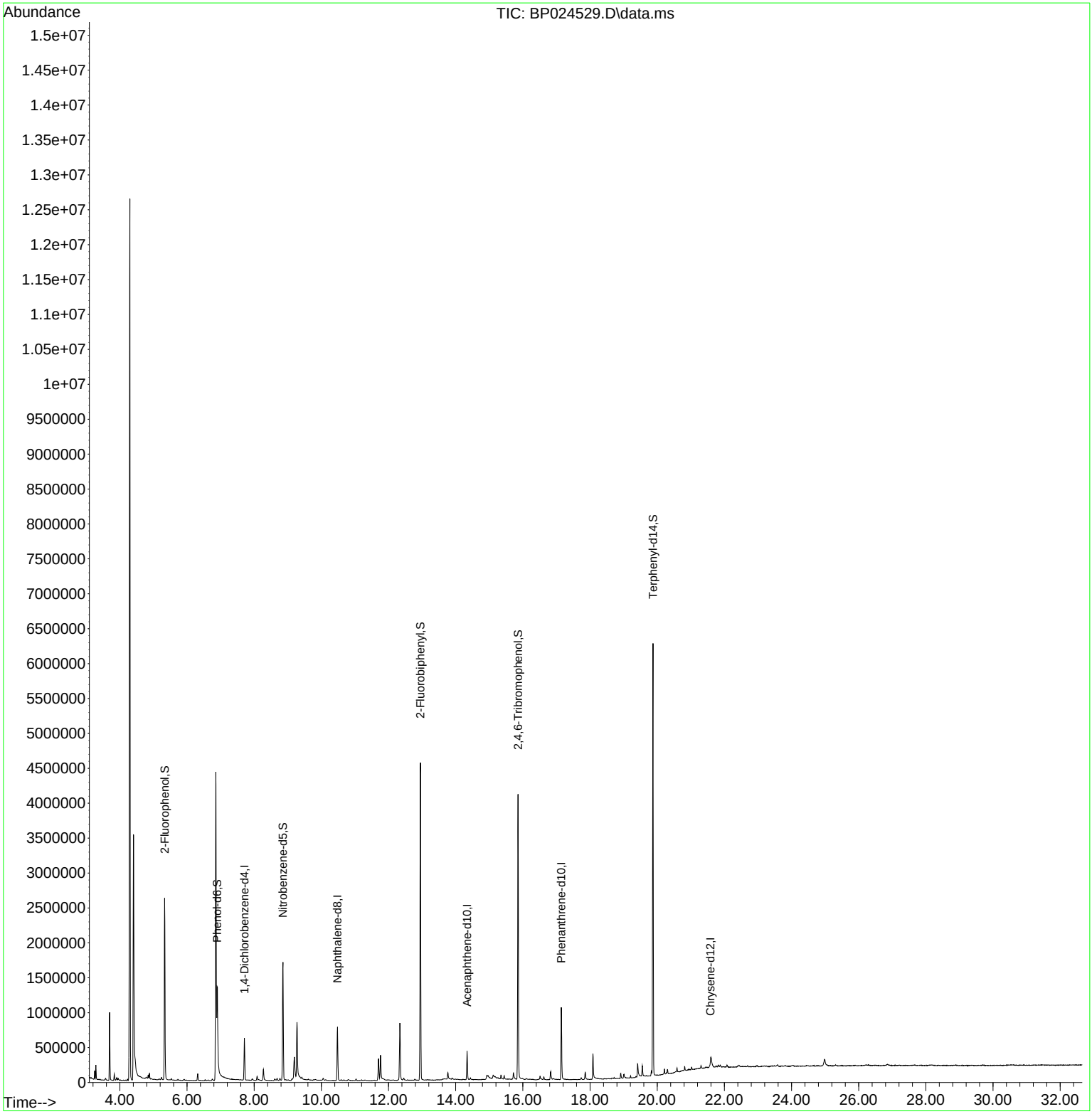
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.711	152	159015	20.000	ng	-0.01
21) Naphthalene-d8	10.481	136	625316	20.000	ng	#-0.02
39) Acenaphthene-d10	14.340	164	112223	20.000	ng	#-0.01
64) Phenanthrene-d10	17.145	188	431364	20.000	ng	0.00
76) Chrysene-d12	21.586	240	43410	20.000	ng	# 0.00
86) Perylene-d12	0.000	264	0m	20.000	ng	-24.93
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	1105558	114.957	ng	-0.01
7) Phenol-d6	6.899	99	548086	41.621	ng	-0.01
23) Nitrobenzene-d5	8.858	82	1019694	92.984	ng	-0.01
42) 2,4,6-Tribromophenol	15.857	330	859661	553.668	ng	0.00
45) 2-Fluorobiphenyl	12.951	172	2297807	313.500	ng	-0.01
79) Terphenyl-d14	19.875	244	1941631	901.549	ng	0.00
Target Compounds						Qvalue

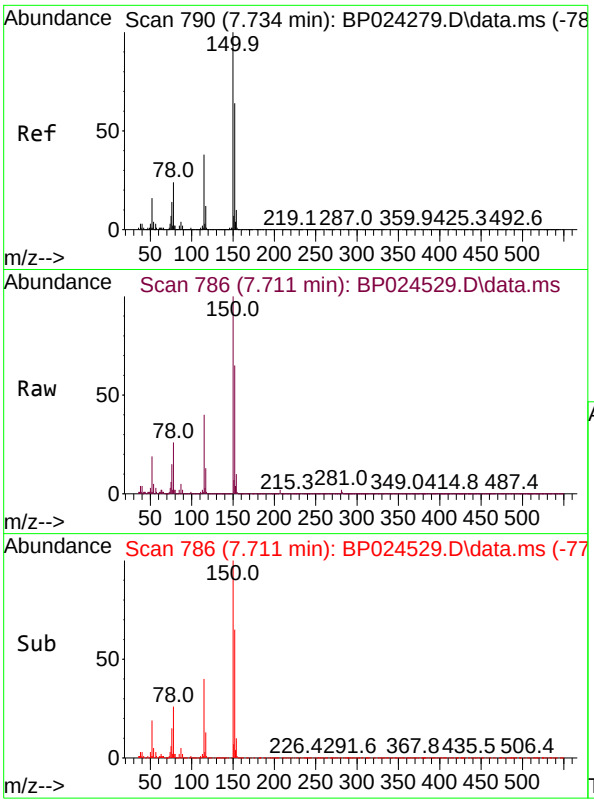
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP050525\
Data File : BP024529.D
Acq On : 05 May 2025 17:26
Operator : RC/JU
Sample : Q1901-10RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Quant Time: May 05 18:21:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP041425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 18 12:04:48 2025
Response via : Initial Calibration



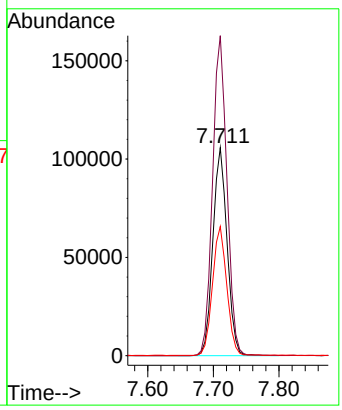


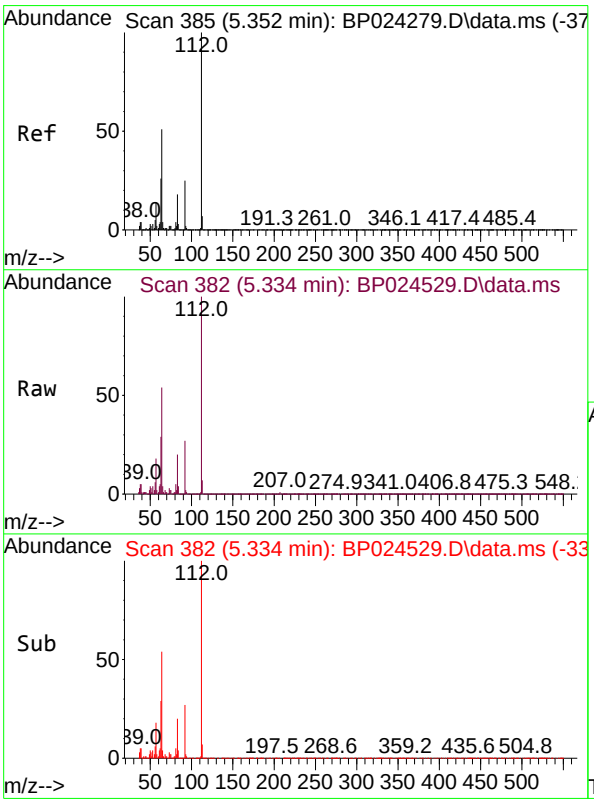
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.711 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Tgt Ion:152 Resp: 159015

Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.9	187.3
115	62.1	47.7	71.5

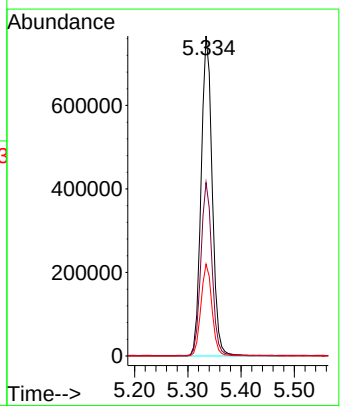


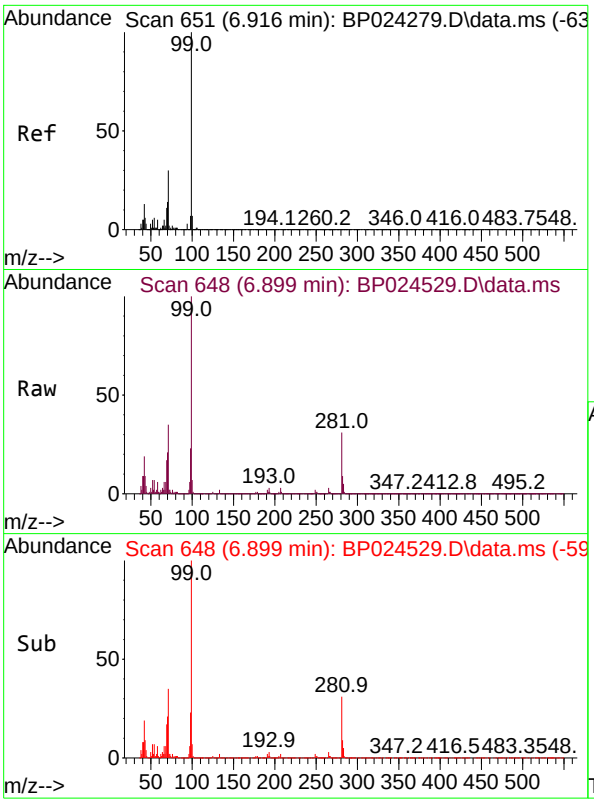


#5
2-Fluorophenol
Concen: 114.957 ng
RT: 5.334 min Scan# 382
Delta R.T. -0.012 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Tgt Ion:112 Resp: 1105558

Ion	Ratio	Lower	Upper
112	100		
64	54.2	41.1	61.7
63	28.7	20.6	30.8



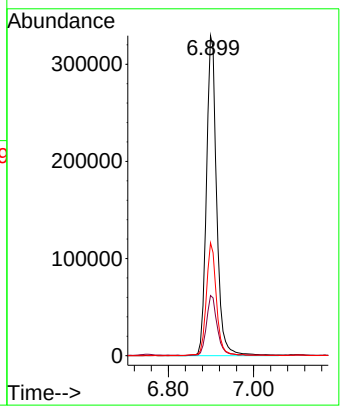


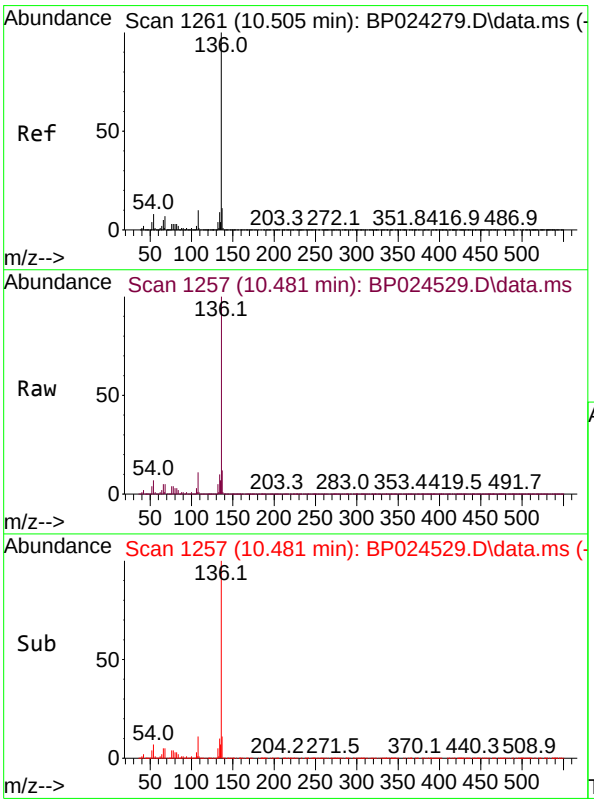
#7
Phenol-d6
Concen: 41.621 ng
RT: 6.899 min Scan# 64
Delta R.T. -0.012 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Tgt Ion: 99 Resp: 548086

Ion	Ratio	Lower	Upper
99	100		
42	18.8	10.6	16.0#
71	35.2	23.7	35.5

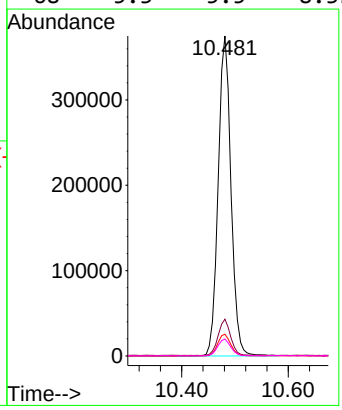


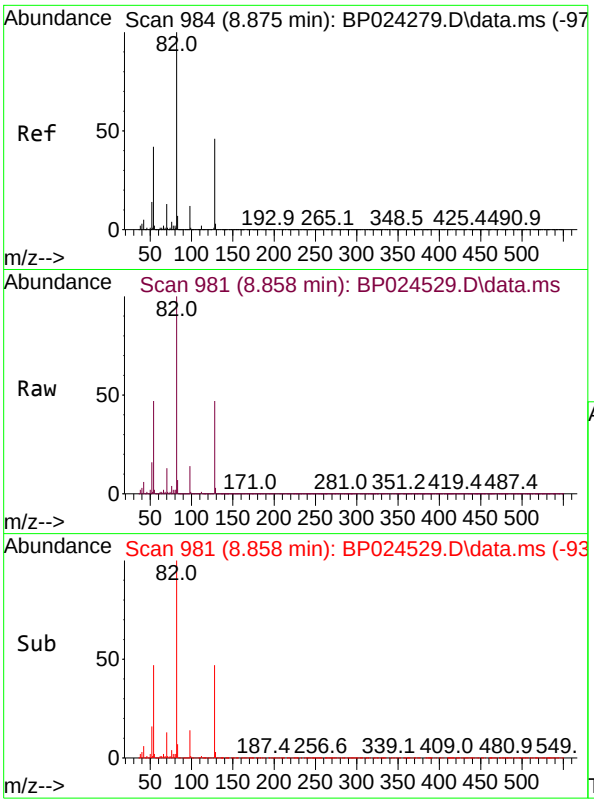


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.481 min Scan# 1257
Delta R.T. -0.017 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Tgt Ion:136 Resp: 625316

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	6.8	6.0	9.0
68	5.3	5.5	8.3#



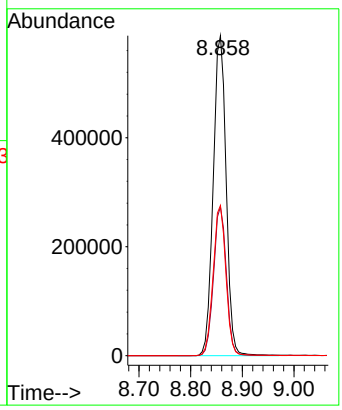


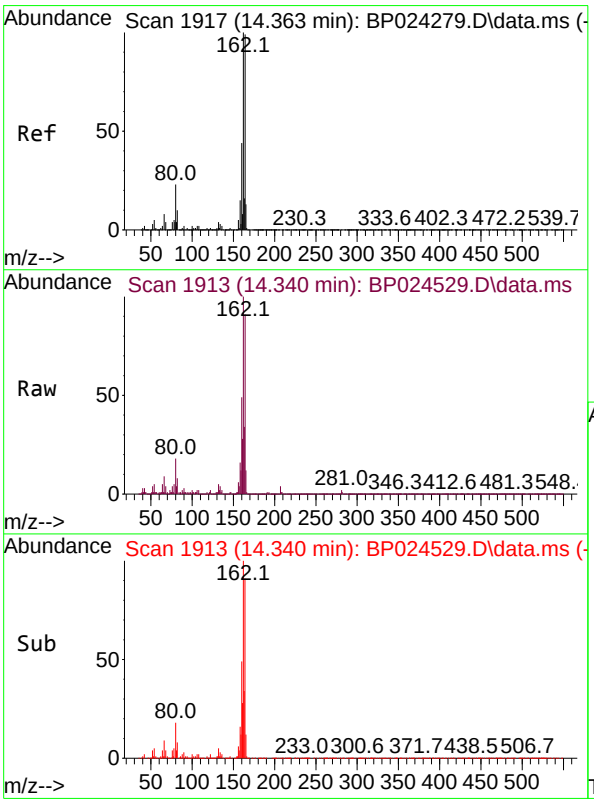
#23
Nitrobenzene-d5
Concen: 92.984 ng
RT: 8.858 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Tgt Ion: 82 Resp: 1019694

Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.5	54.7
54	46.9	33.4	50.2

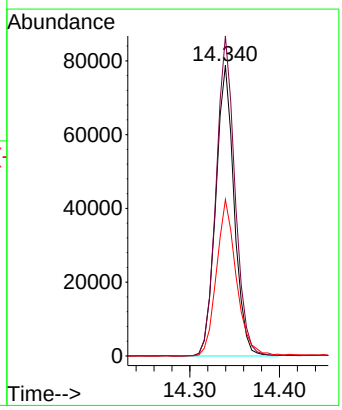


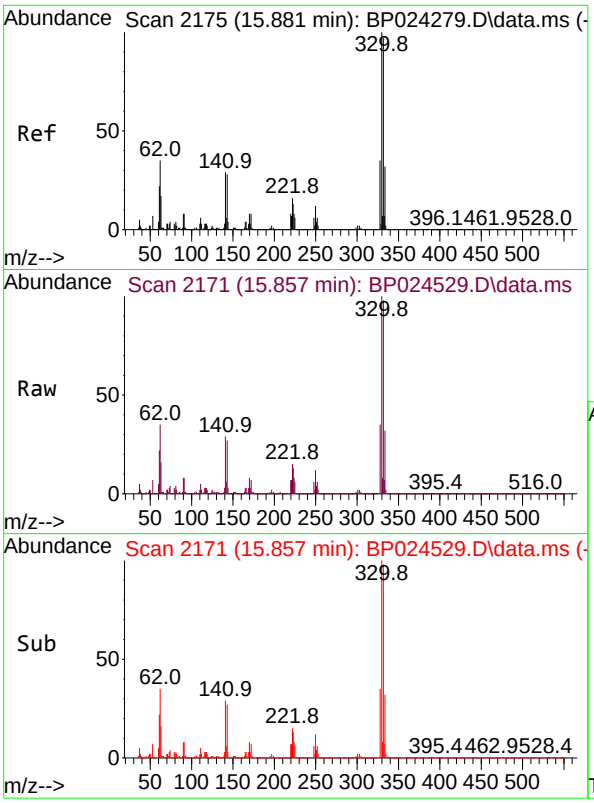


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.340 min Scan# 1913
Delta R.T. -0.012 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Tgt Ion:164 Resp: 112223

Ion	Ratio	Lower	Upper
164	100		
162	110.1	80.6	120.8
160	53.8	35.3	52.9#



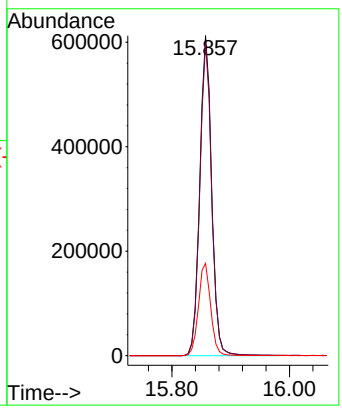


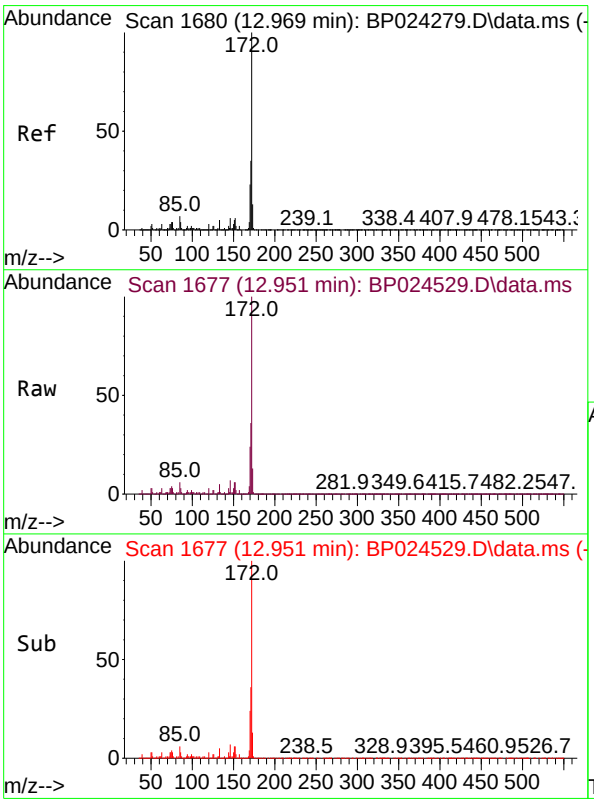
#42
2,4,6-Tribromophenol
Concen: 553.668 ng
RT: 15.857 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Tgt Ion:330 Resp: 859661

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.1	115.7
141	29.6	24.7	37.1

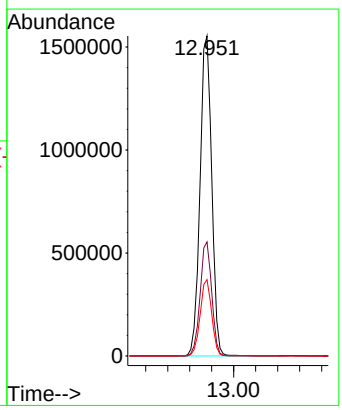


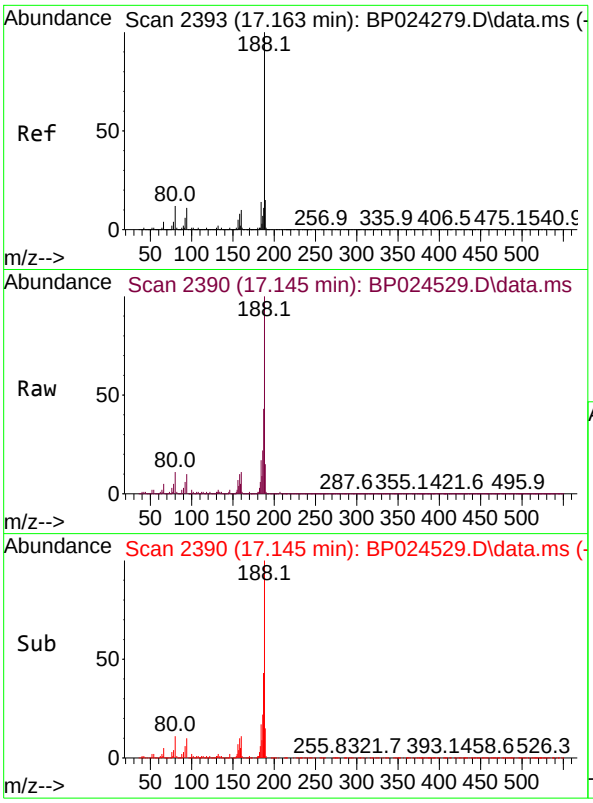


#45
2-Fluorobiphenyl
Concen: 313.500 ng
RT: 12.951 min Scan# 1677
Delta R.T. -0.012 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Tgt Ion:172 Resp: 2297807

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	23.9	18.6	27.8



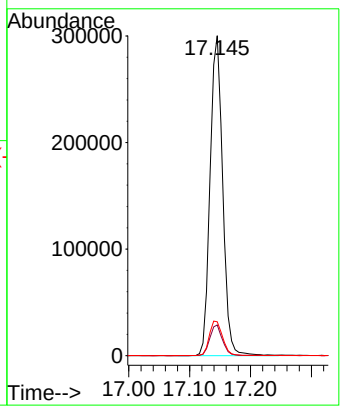


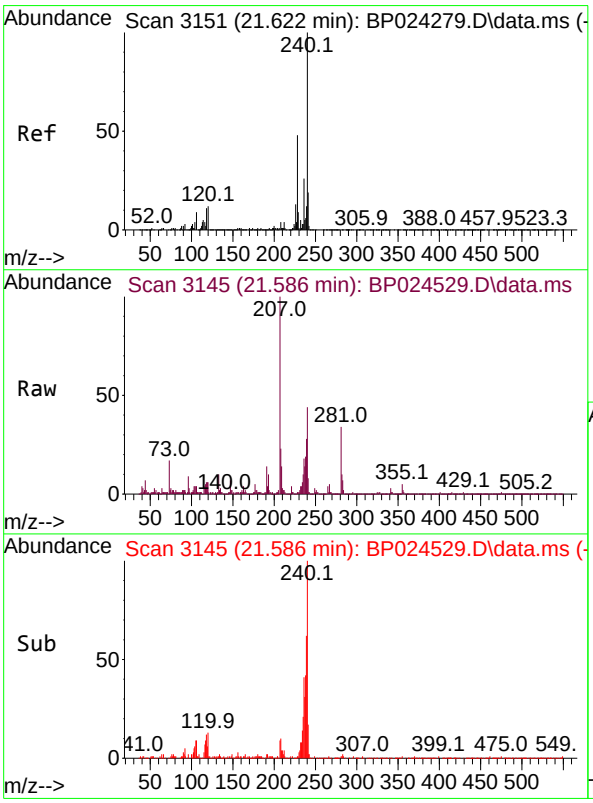
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Tgt Ion:188 Resp: 431364

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.6	13.0
80	10.6	9.8	14.6

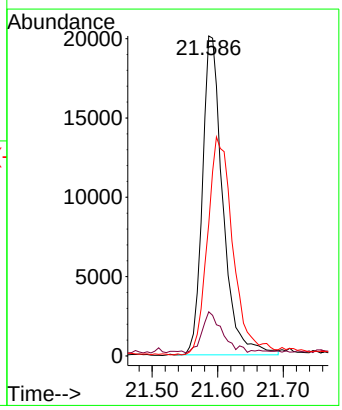


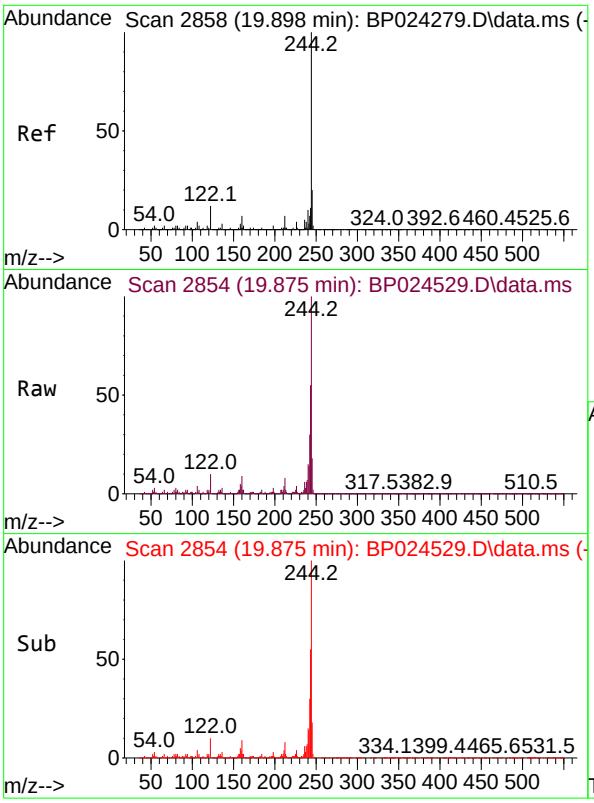


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3145
Delta R.T. -0.006 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Tgt Ion:240 Resp: 43410

Ion	Ratio	Lower	Upper
240	100		
120	13.8	9.8	14.8
236	41.3	20.9	31.3#



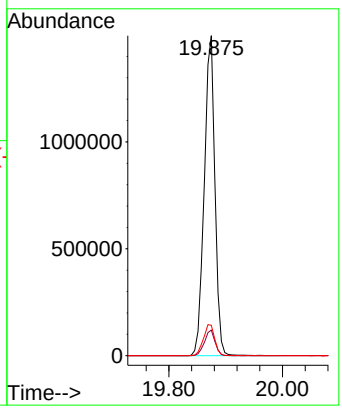


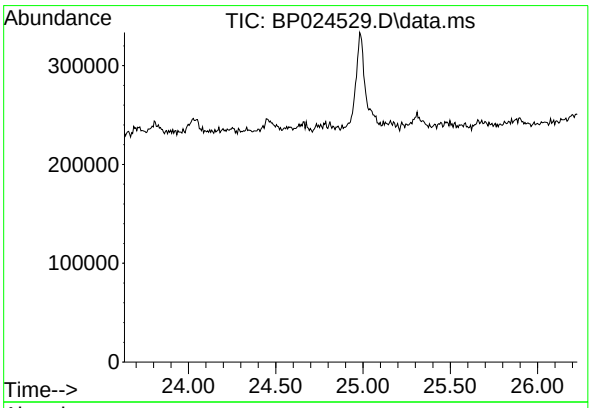
#79
Terphenyl-d14
Concen: 901.549 ng
RT: 19.875 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024529.D
Acq: 05 May 2025 17:26

Instrument :
BNA_P
ClientSampleId :
B-167-SB02RE

Tgt Ion:244 Resp: 1941631

Ion	Ratio	Lower	Upper
244	100		
212	8.0	5.6	8.4
122	9.5	9.4	14.0



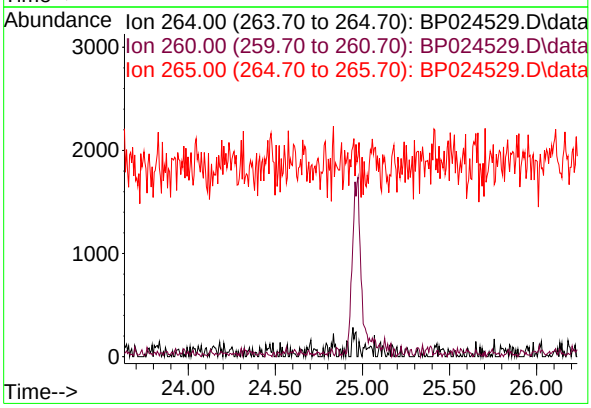


#86
Perylene-d12
Concen: 0.000 ng
Expected RT: 24.93 min

Lab File: BP024529.D
Acq: 05 May 2025 17:26

Tgt Ion: 264

Sig	Exp Ratio
264	100
260	23.6
265	22.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142281.D
Acq On : 02 May 2025 14:22
Operator : RC/JU
Sample : Q1901-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Time: May 02 15:21:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

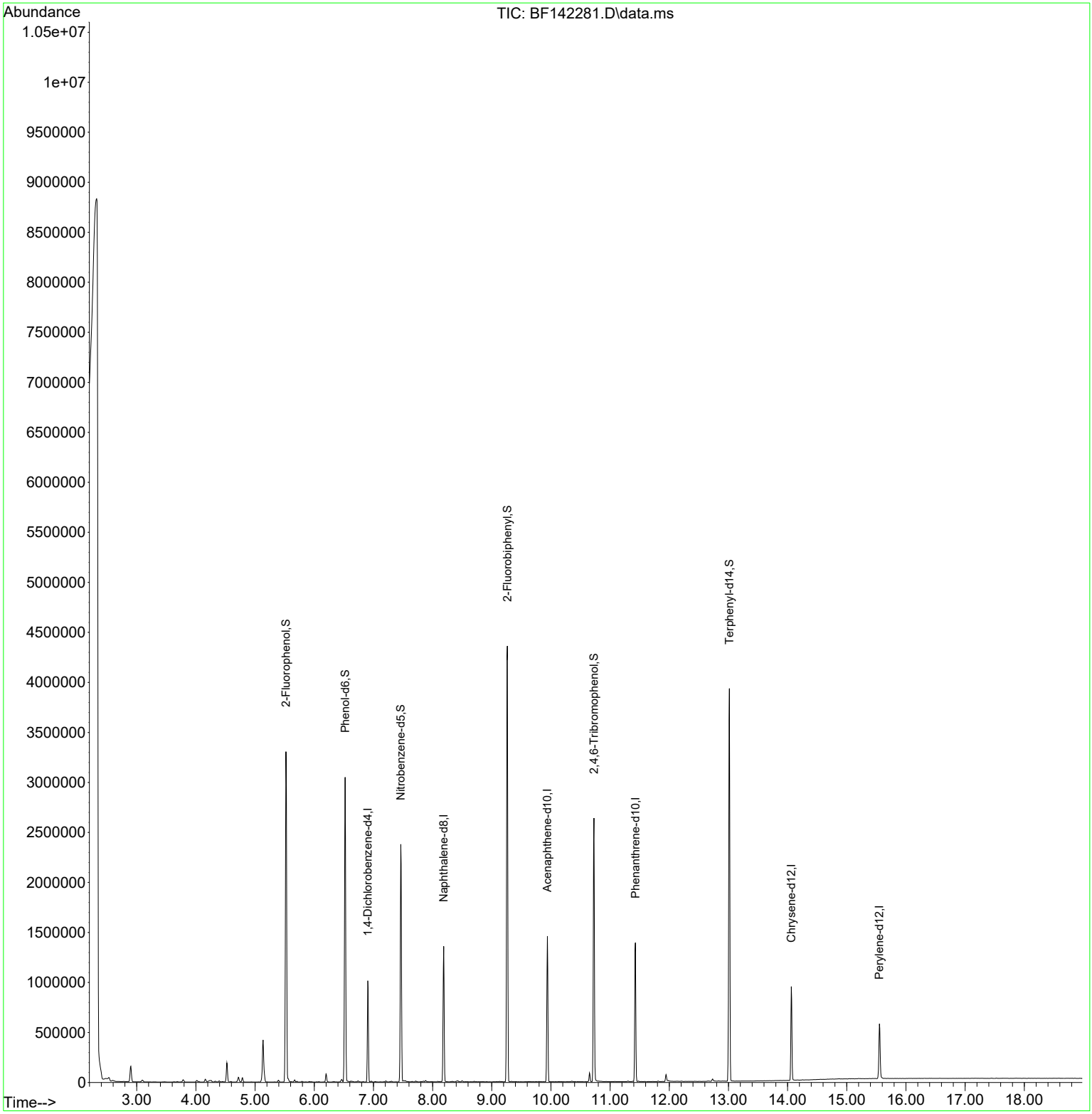
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	213953	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	820195	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	417687	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	704817	20.000	ng	0.00
76) Chrysene-d12	14.063	240	439553	20.000	ng	-0.01
86) Perylene-d12	15.551	264	313049	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1264763	94.409	ng	0.00
7) Phenol-d6	6.522	99	1431879	88.511	ng	0.00
23) Nitrobenzene-d5	7.463	82	992258	79.479	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	458282	120.354	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2003805	67.641	ng	0.00
79) Terphenyl-d14	13.016	244	1927099	63.764	ng	0.00
Target Compounds						Qvalue

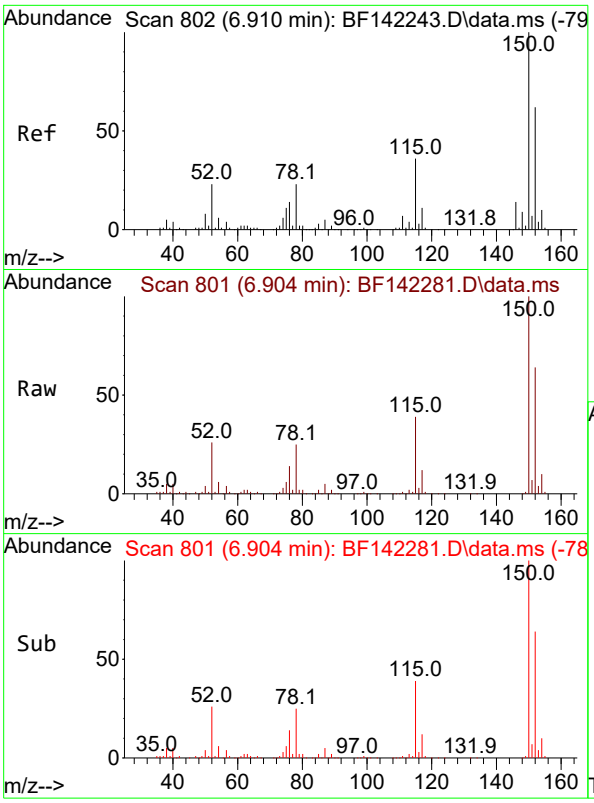
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142281.D
Acq On : 02 May 2025 14:22
Operator : RC/JU
Sample : Q1901-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Time: May 02 15:21:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



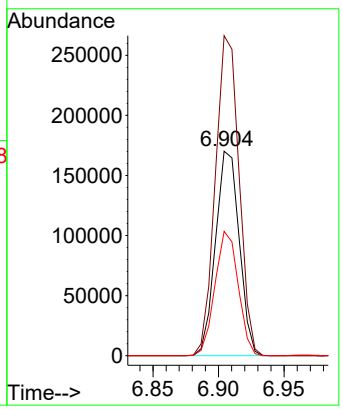


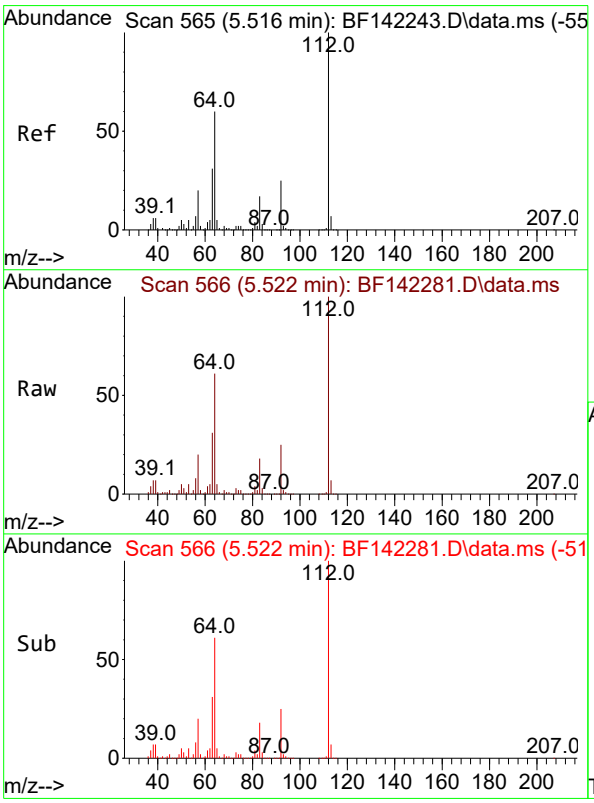
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:152 Resp: 213953

Ion	Ratio	Lower	Upper
152	100		
150	156.5	130.2	195.2
115	60.8	47.0	70.4

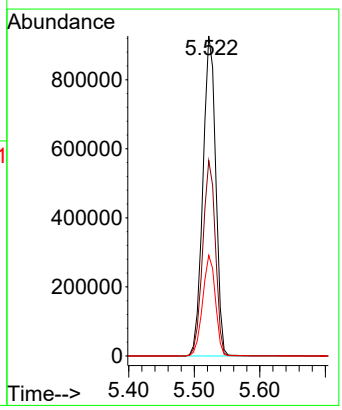


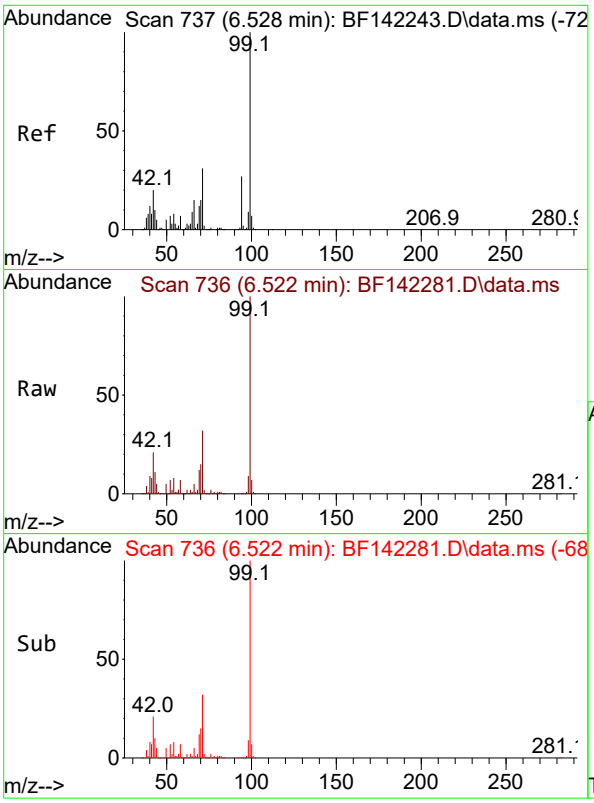


#5
2-Fluorophenol
Concen: 94.409 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Tgt Ion:112 Resp: 1264763

Ion	Ratio	Lower	Upper
112	100		
64	61.0	48.4	72.6
63	31.5	24.8	37.2



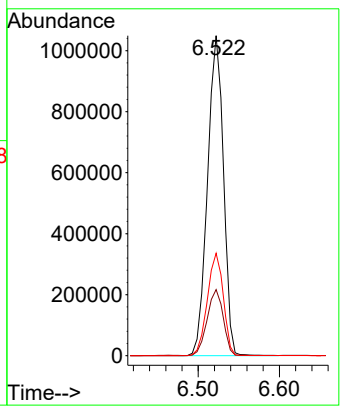


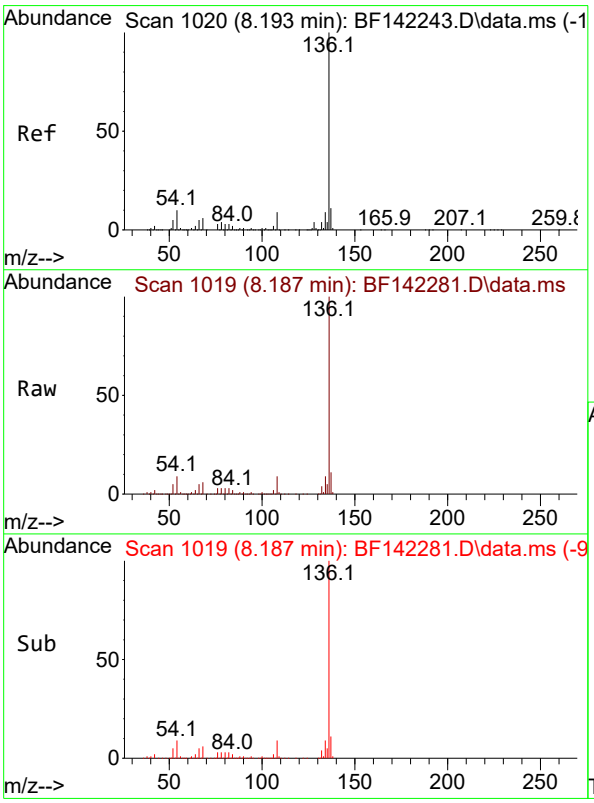
#7
Phenol-d6
Concen: 88.511 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion: 99 Resp: 1431879

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.3	24.5
71	32.0	25.0	37.4

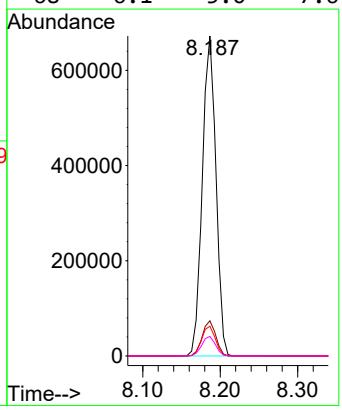


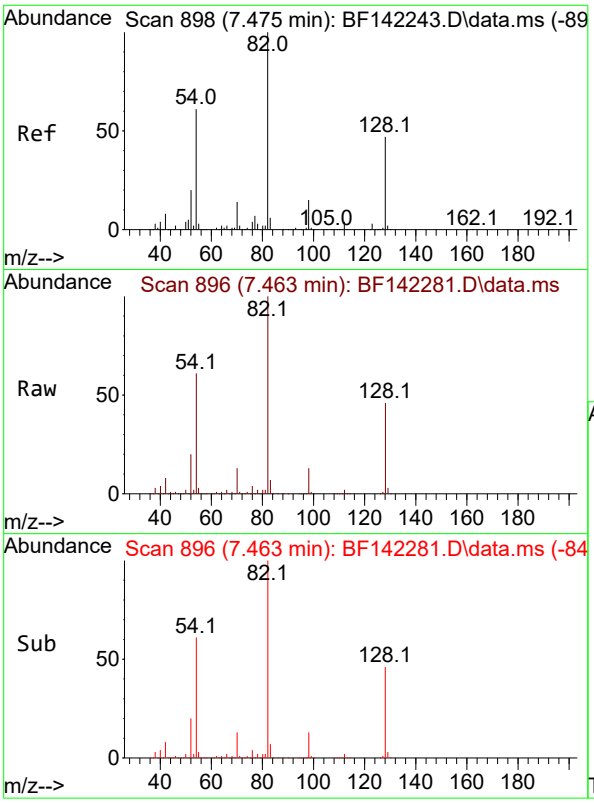


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Tgt Ion:136 Resp: 820195

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.3	7.7	11.5
68	6.1	5.0	7.6



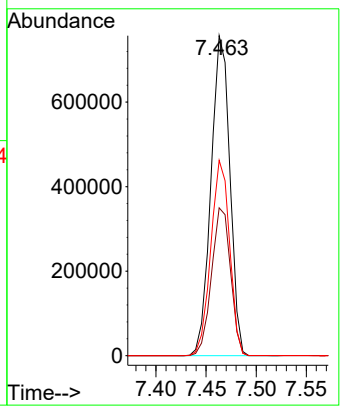


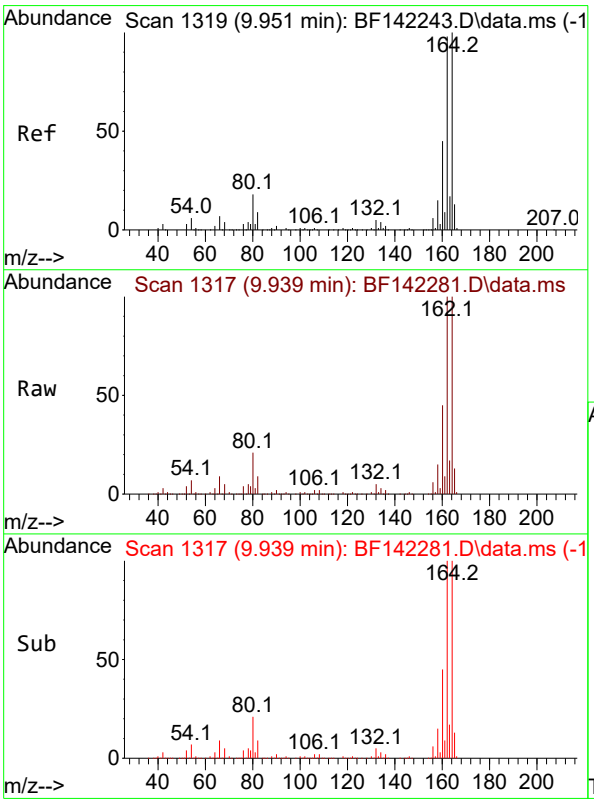
#23
Nitrobenzene-d5
Concen: 79.479 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion: 82 Resp: 992258

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.0	55.6
54	61.0	48.0	72.0

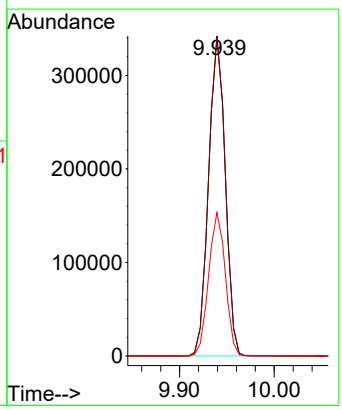


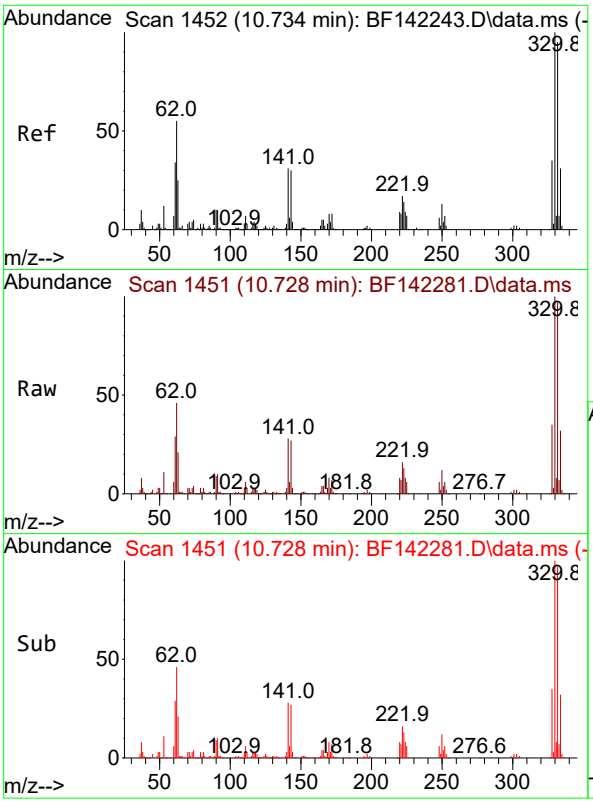


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Tgt Ion:164 Resp: 417687

Ion	Ratio	Lower	Upper
164	100		
162	100.3	78.6	117.8
160	45.0	35.7	53.5



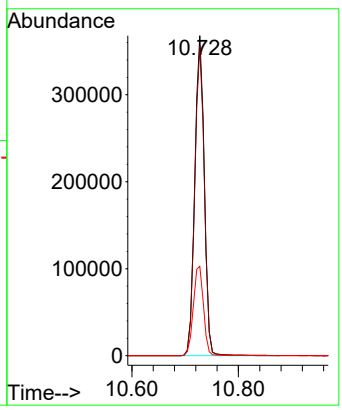


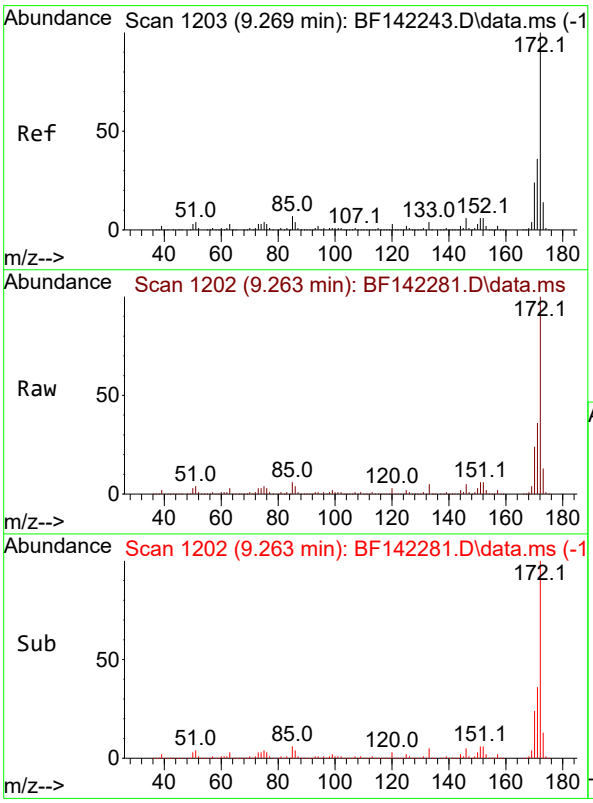
#42
2,4,6-Tribromophenol
Concen: 120.354 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:330 Resp: 458282

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.5	114.7
141	29.6	24.3	36.5

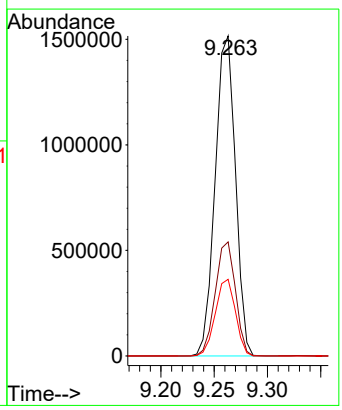


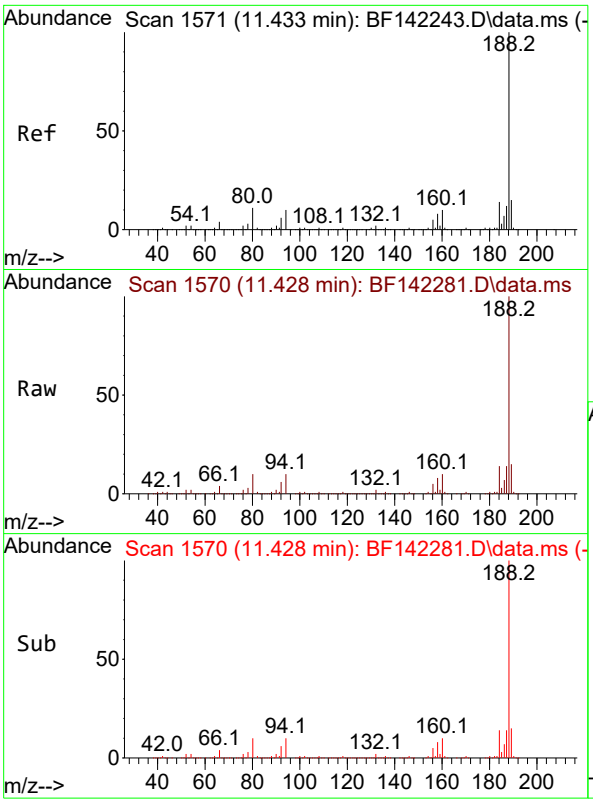


#45
2-Fluorobiphenyl
Concen: 67.641 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Tgt Ion:172 Resp: 2003805

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.0	19.4	29.0



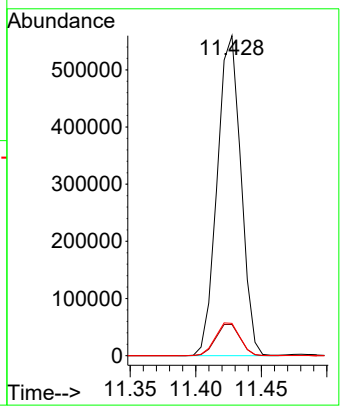


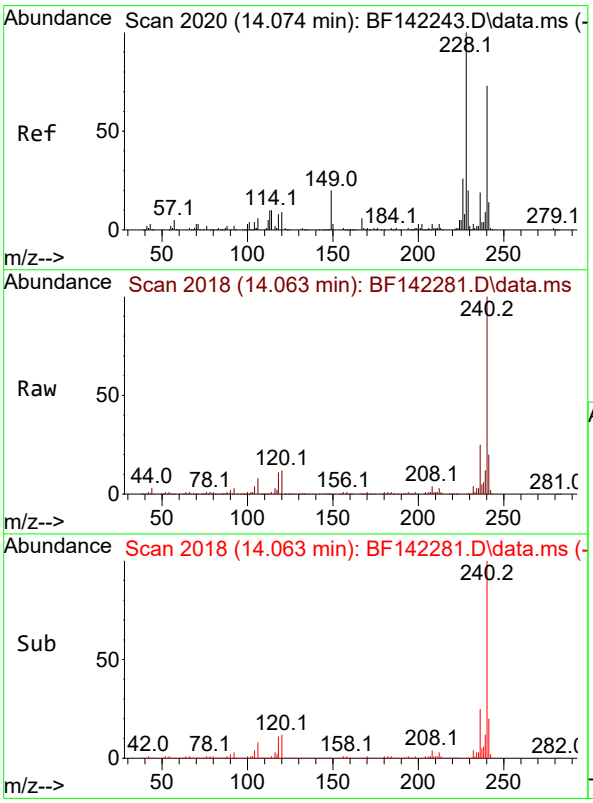
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:188 Resp: 704817

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.2	12.2
80	10.1	8.6	12.8

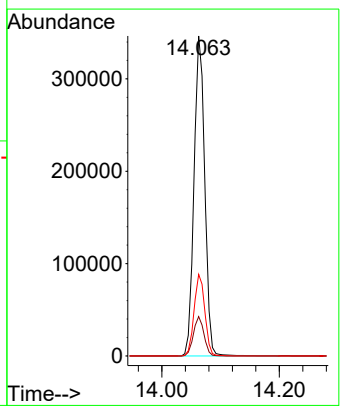


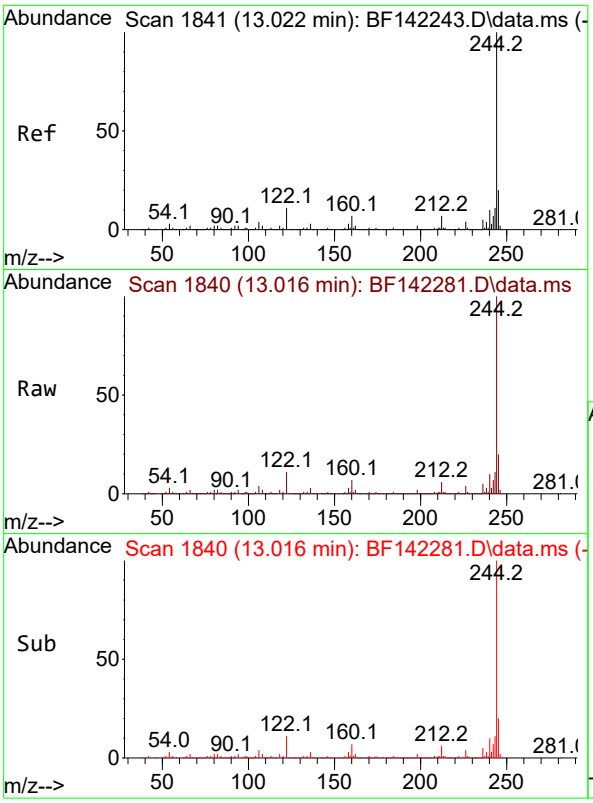


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Tgt Ion:240 Resp: 439553

Ion	Ratio	Lower	Upper
240	100		
120	12.3	10.1	15.1
236	25.5	20.5	30.7



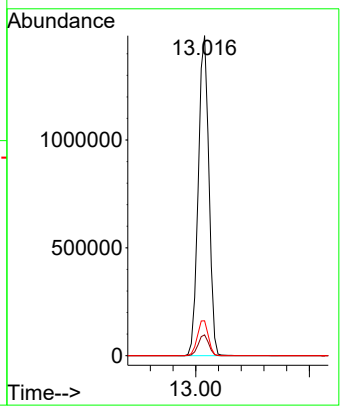


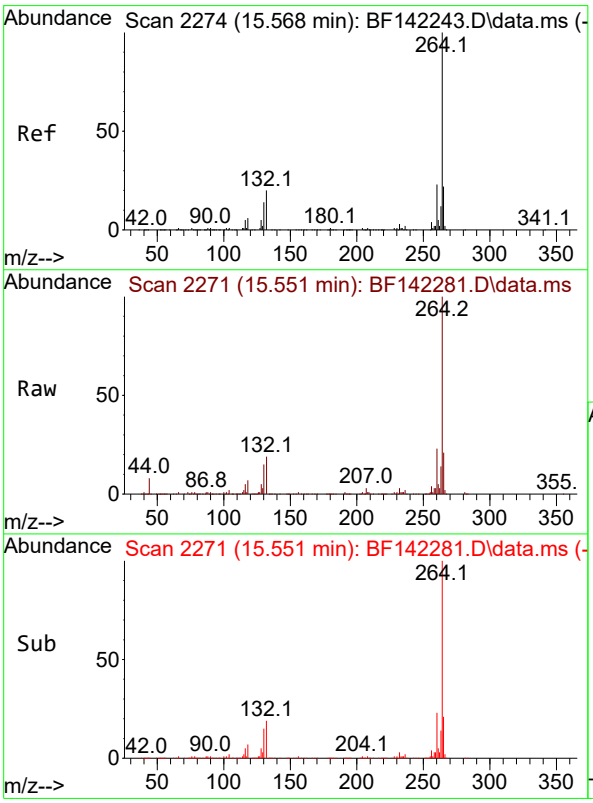
#79
Terphenyl-d14
Concen: 63.764 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:244 Resp: 1927099

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.9	9.1	13.7

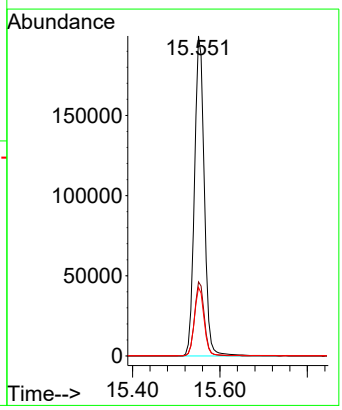




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2271
Delta R.T. -0.018 min
Lab File: BF142281.D
Acq: 02 May 2025 14:22

Tgt Ion:264 Resp: 313049

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.4	27.6
265	21.4	17.3	25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142254.D
Acq On : 01 May 2025 12:10
Operator : RC/JU
Sample : PB167810BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Quant Time: May 01 12:47:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

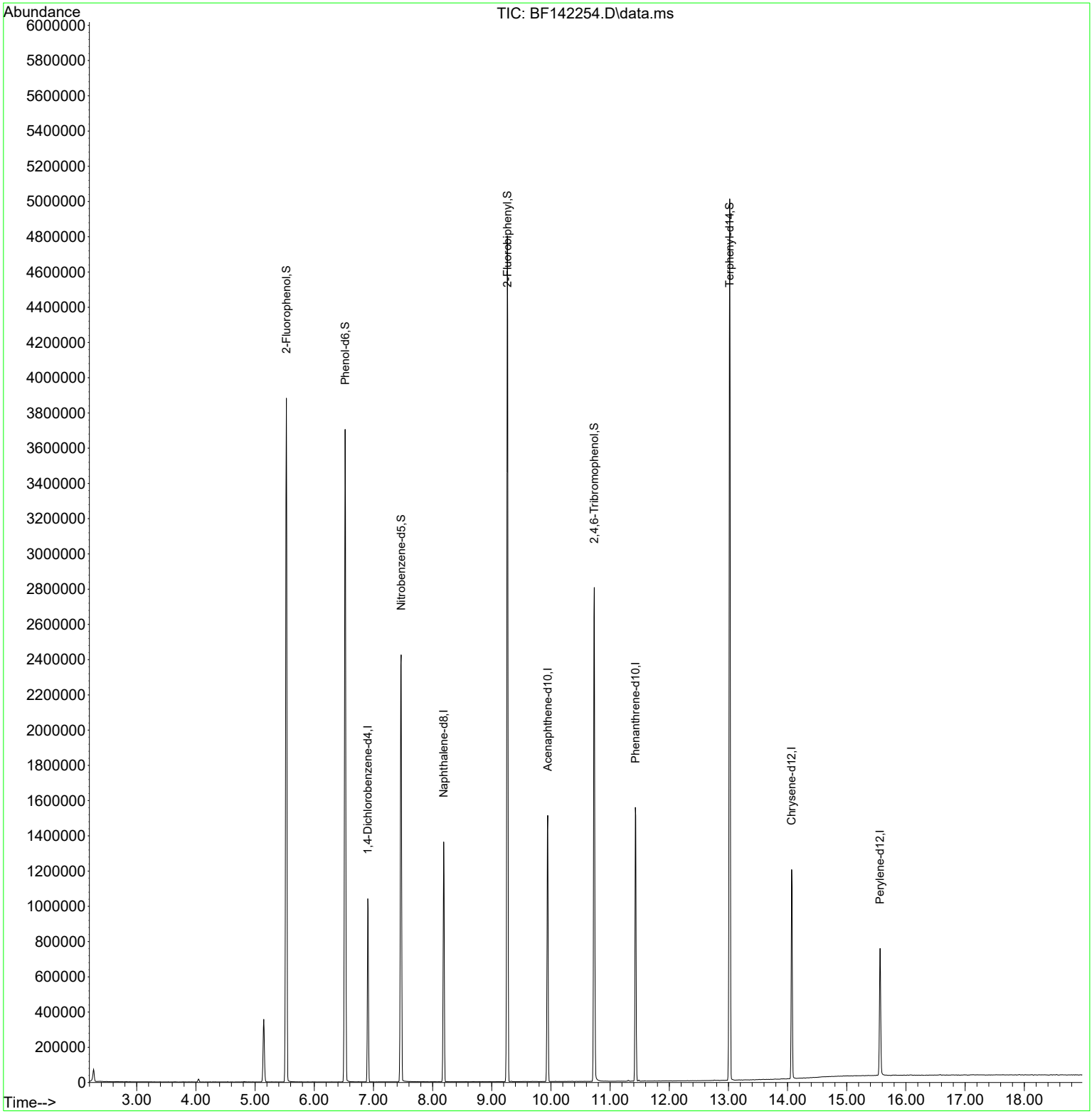
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	223997	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	857825	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	449926	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	794711	20.000	ng	0.00
76) Chrysene-d12	14.069	240	568207	20.000	ng	0.00
86) Perylene-d12	15.563	264	404816	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1546121	110.236	ng	0.01
7) Phenol-d6	6.522	99	1853180	109.417	ng	0.00
23) Nitrobenzene-d5	7.469	82	1087156	83.261	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	508946	124.082	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2205083	69.102	ng	0.00
79) Terphenyl-d14	13.022	244	2472921	63.298	ng	0.00
Target Compounds						Qvalue

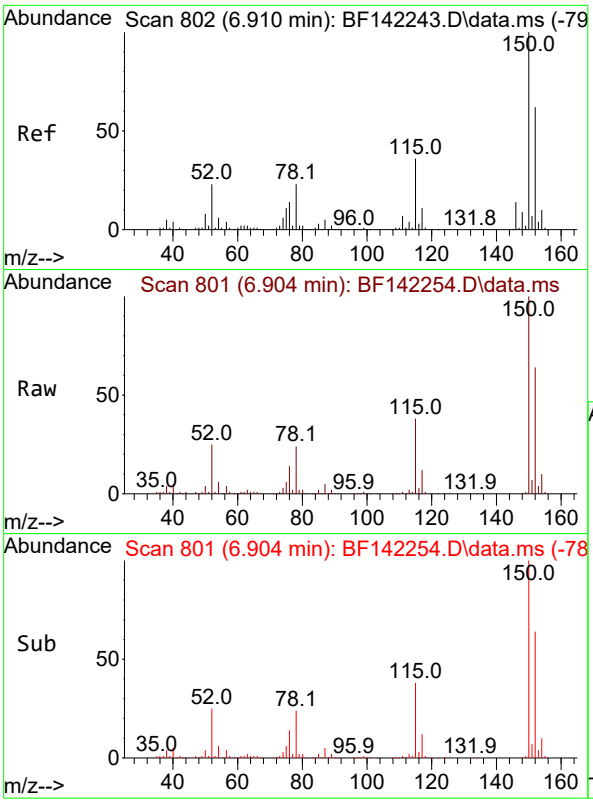
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142254.D
Acq On : 01 May 2025 12:10
Operator : RC/JU
Sample : PB167810BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Quant Time: May 01 12:47:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



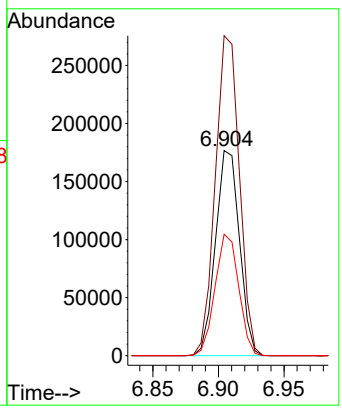


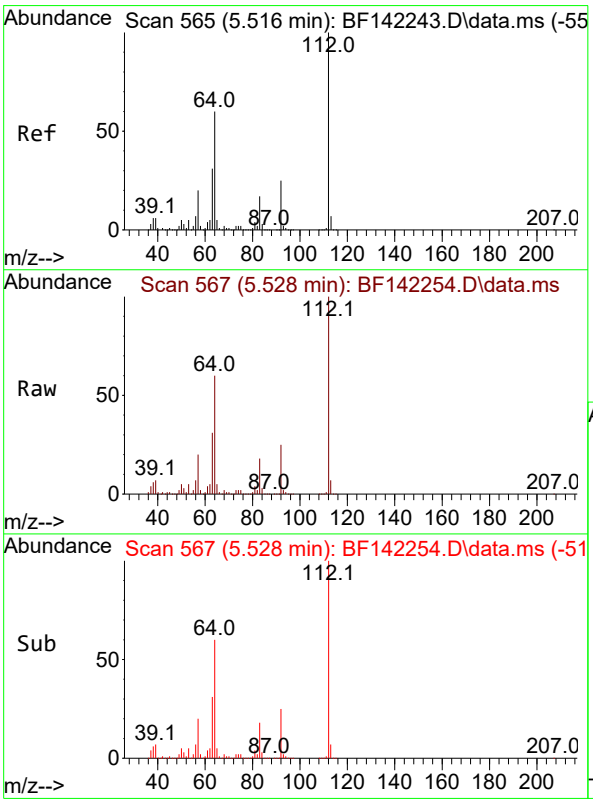
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Tgt Ion:152 Resp: 223997

Ion	Ratio	Lower	Upper
152	100		
150	156.1	130.2	195.2
115	59.2	47.0	70.4

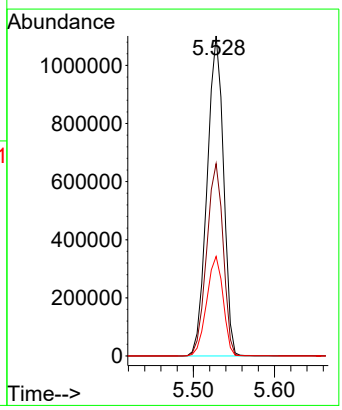


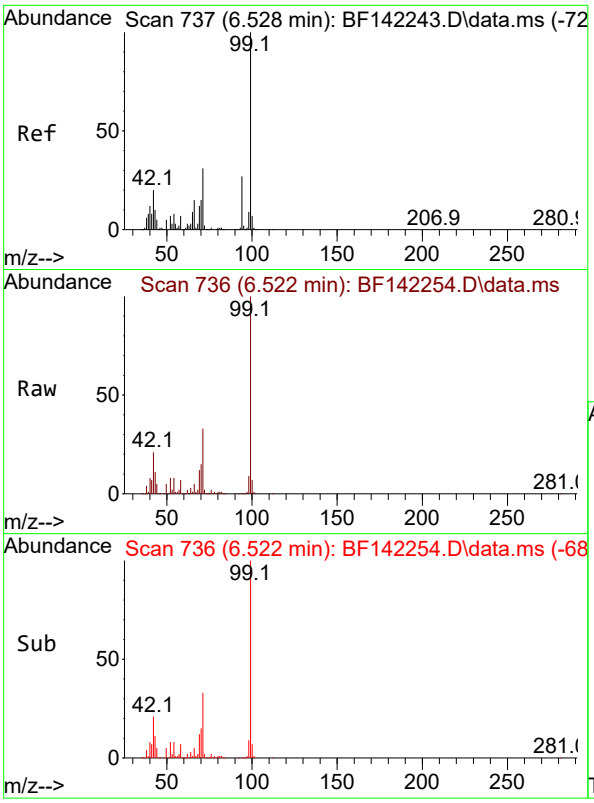


#5
2-Fluorophenol
Concen: 110.236 ng
RT: 5.528 min Scan# 567
Delta R.T. 0.012 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Tgt Ion:112 Resp: 1546121

Ion	Ratio	Lower	Upper
112	100		
64	60.1	48.4	72.6
63	31.1	24.8	37.2



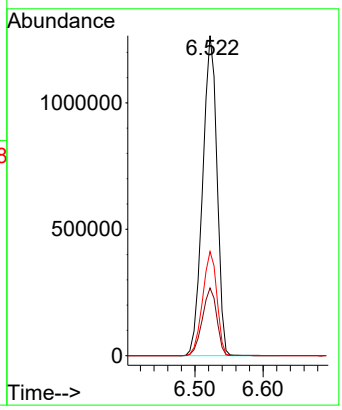


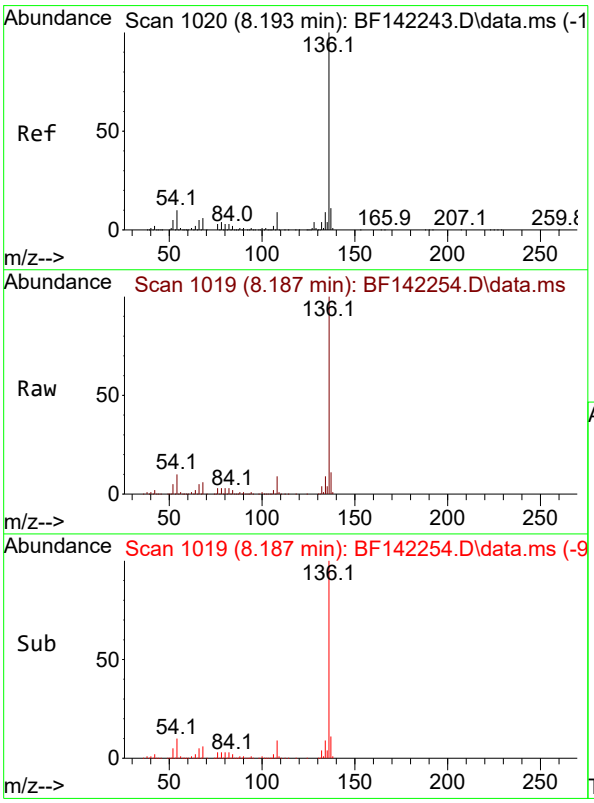
#7
Phenol-d6
Concen: 109.417 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Tgt Ion: 99 Resp: 1853180

Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.3	24.5
71	32.5	25.0	37.4

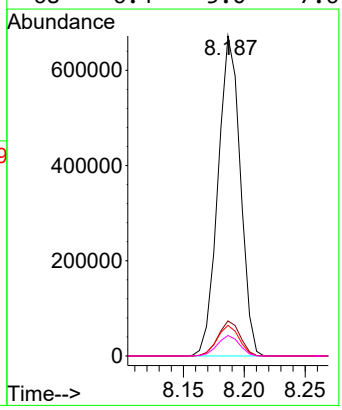


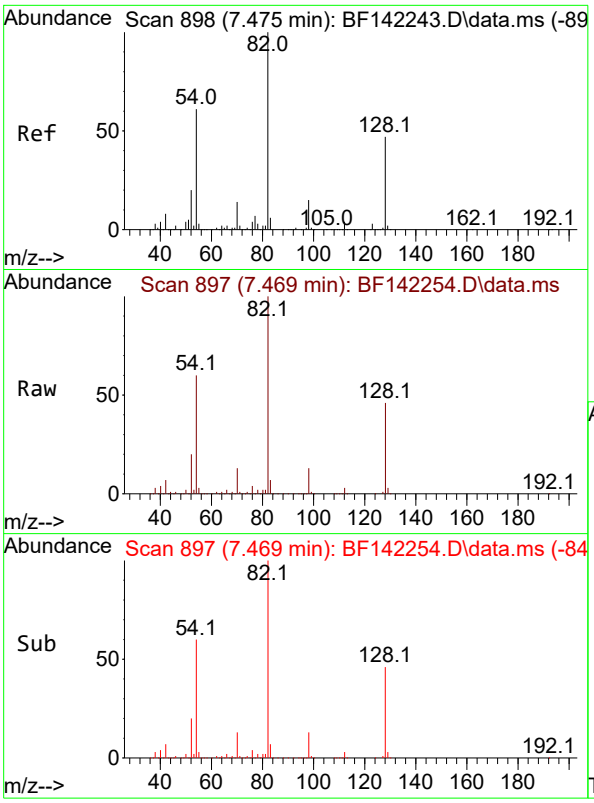


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Tgt Ion:136 Resp: 857825

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.6	7.7	11.5
68	6.4	5.0	7.6



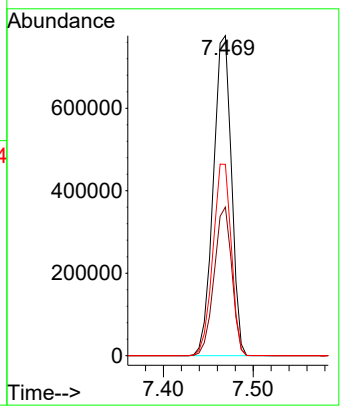


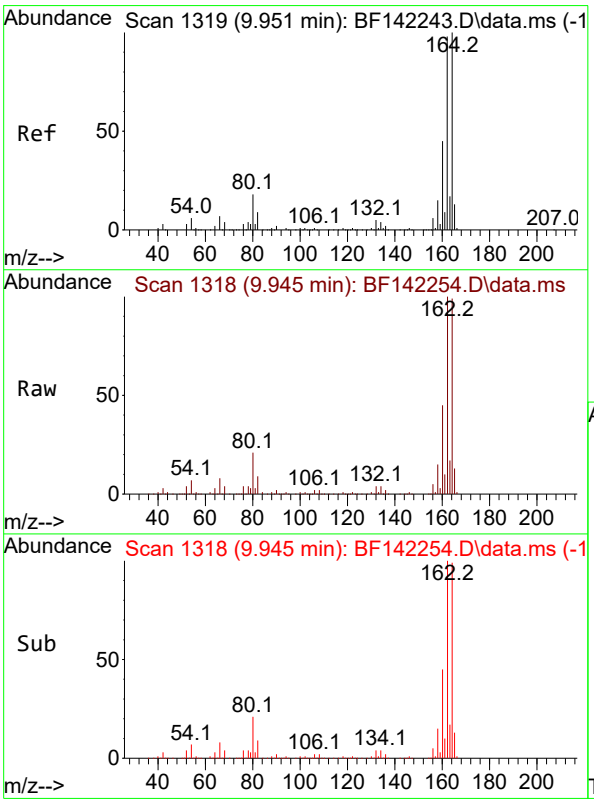
#23
Nitrobenzene-d5
Concen: 83.261 ng
RT: 7.469 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Tgt Ion: 82 Resp: 1087156

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.6
54	59.8	48.0	72.0

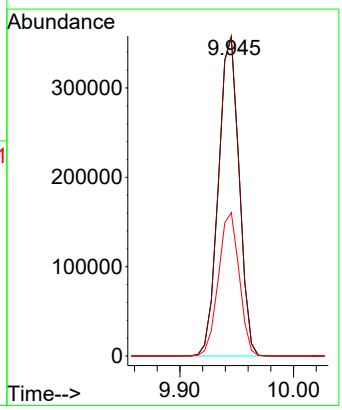


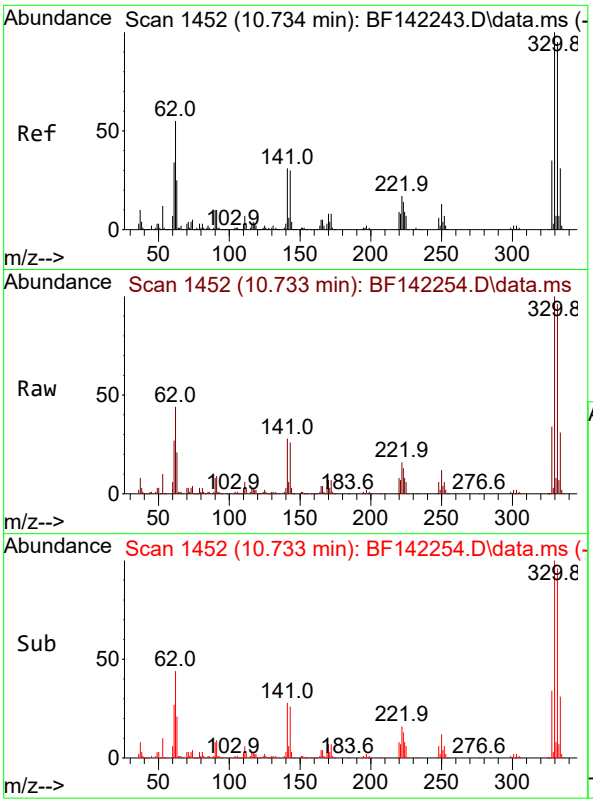


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Tgt Ion:164 Resp: 449926

Ion	Ratio	Lower	Upper
164	100		
162	100.6	78.6	117.8
160	45.1	35.7	53.5



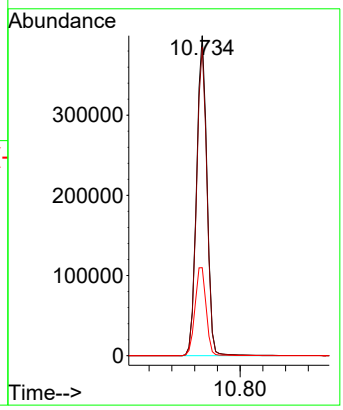


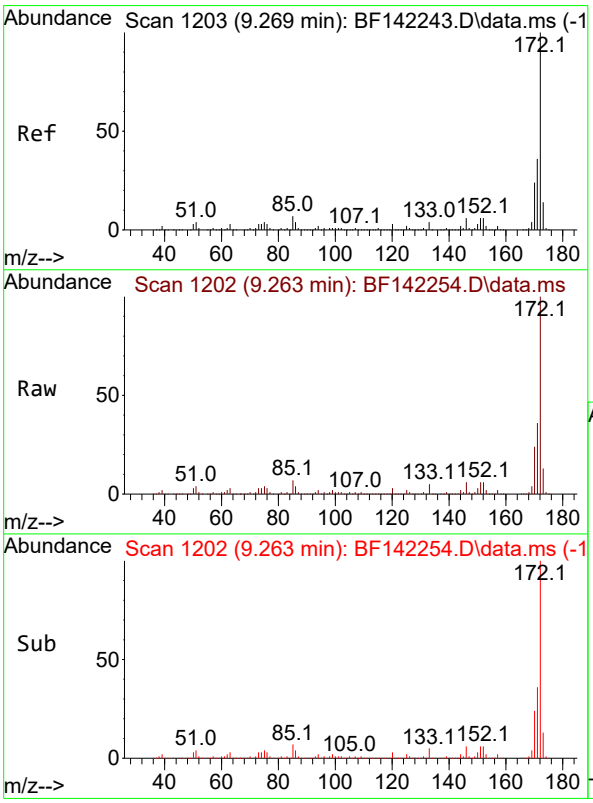
#42
2,4,6-Tribromophenol
Concen: 124.082 ng
RT: 10.733 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Tgt Ion:330 Resp: 508946

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.5	114.7
141	29.6	24.3	36.5

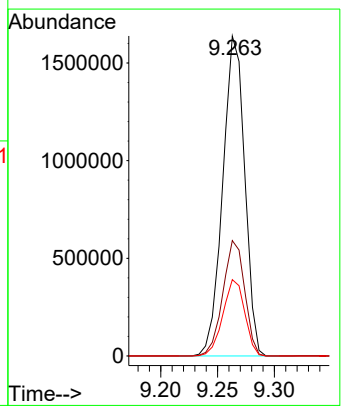


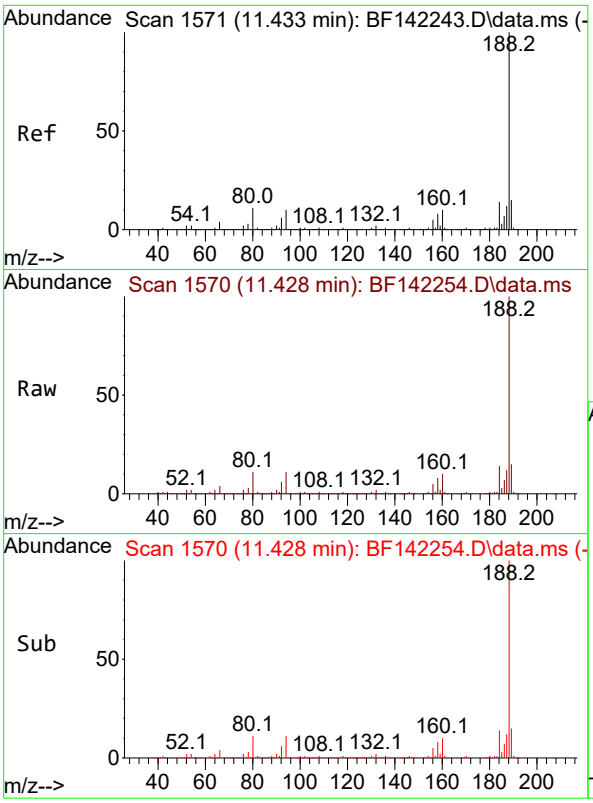


#45
2-Fluorobiphenyl
Concen: 69.102 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Tgt Ion:172 Resp: 2205083

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.9	19.4	29.0



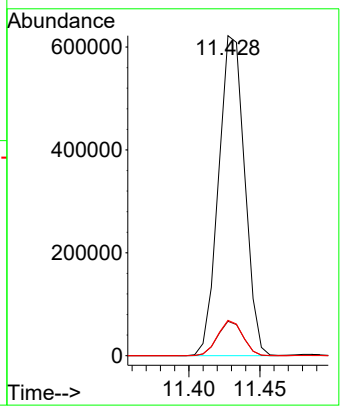


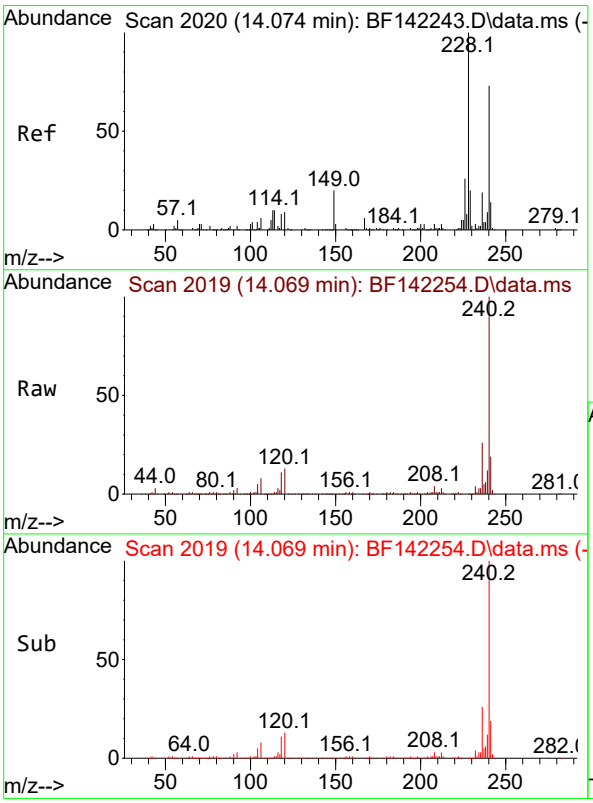
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Tgt Ion:188 Resp: 794711

Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.2	12.2
80	11.1	8.6	12.8

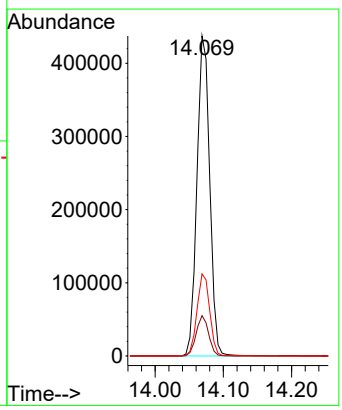


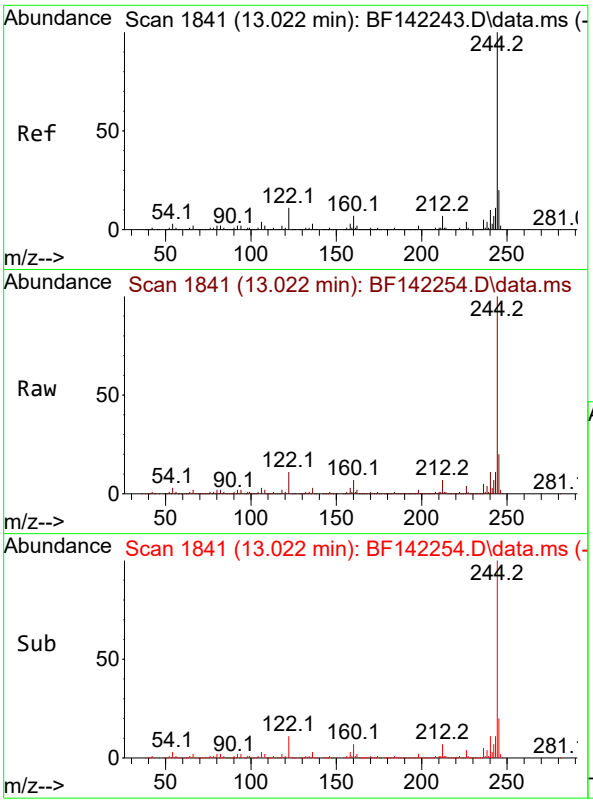


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Tgt Ion:240 Resp: 568207

Ion	Ratio	Lower	Upper
240	100		
120	12.6	10.1	15.1
236	25.7	20.5	30.7



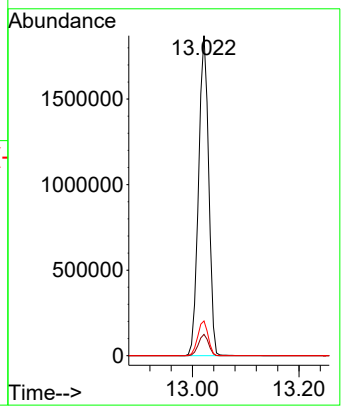


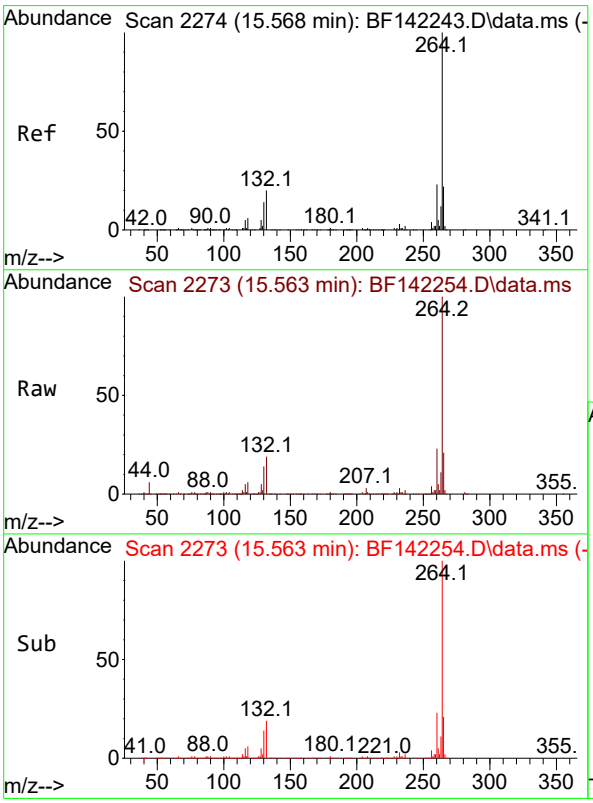
#79
Terphenyl-d14
Concen: 63.298 ng
RT: 13.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Instrument :
BNA_F
ClientSampleId :
PB167810BL

Tgt Ion:244 Resp: 2472921

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.9	9.1	13.7

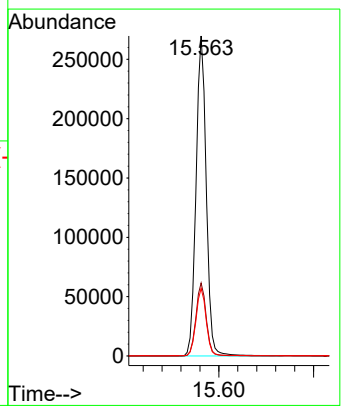




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142254.D
Acq: 01 May 2025 12:10

Tgt Ion:264 Resp: 404816

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.4	27.6
265	21.1	17.3	25.9



Sample Results: **BF142255.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142255.D
Acq On : 01 May 2025 12:39
Operator : RC/JU
Sample : PB167810BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 13:05:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167810BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	228833	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	892782	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	472284	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	804874	20.000	ng	0.00
76) Chrysene-d12	14.074	240	464382	20.000	ng	0.00
86) Perylene-d12	15.568	264	446826	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.534	112	1593182	111.191	ng	0.02
7) Phenol-d6	6.528	99	1946714	112.510	ng	0.00
23) Nitrobenzene-d5	7.469	82	1119930	82.412	ng	0.00
42) 2,4,6-Tribromophenol	10.739	330	568456	132.029	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	2294519	68.501	ng	0.00
79) Terphenyl-d14	13.021	244	2366082	74.104	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.798	88	217494	33.987	ng	98
3) Pyridine	3.551	79	618200	37.171	ng	100
4) n-Nitrosodimethylamine	3.504	42	358234	41.623	ng	99
6) Aniline	6.569	93	471322	19.245	ng	100
8) 2-Chlorophenol	6.692	128	631635	42.661	ng	99
9) Benzaldehyde	6.457	77	305773	25.285	ng	98
10) Phenol	6.545	94	755191m	40.542	ng	
11) bis(2-Chloroethyl)ether	6.639	93	588988	40.804	ng	99
12) 1,3-Dichlorobenzene	6.851	146	659968	39.402	ng	98
13) 1,4-Dichlorobenzene	6.928	146	667827	39.574	ng	99
14) 1,2-Dichlorobenzene	7.075	146	650967	40.407	ng	99
15) Benzyl Alcohol	7.045	79	515024	41.969	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1072194	41.135	ng	100
17) 2-Methylphenol	7.151	107	497856	41.046	ng	99
18) Hexachloroethane	7.422	117	231050	41.832	ng	97
19) n-Nitroso-di-n-propyla...	7.322	70	427592	39.992	ng	99
20) 3+4-Methylphenols	7.304	107	618253	40.760	ng	92
22) Acetophenone	7.316	105	826671	40.025	ng	99
24) Nitrobenzene	7.492	77	610784	45.807	ng	99
25) Isophorone	7.728	82	1177064	41.271	ng	99
26) 2-Nitrophenol	7.804	139	256947	46.237	ng	99
27) 2,4-Dimethylphenol	7.839	122	602302	41.886	ng	100
28) bis(2-Chloroethoxy)met...	7.939	93	734241	40.821	ng	99
29) 2,4-Dichlorophenol	8.039	162	518664	43.143	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	544203	40.565	ng	99
31) Naphthalene	8.216	128	1769061	39.733	ng	100
32) Benzoic acid	7.945	122	321202m	47.181	ng	
33) 4-Chloroaniline	8.251	127	82158	4.431	ng	99
34) Hexachlorobutadiene	8.328	225	324756	41.492	ng	99
35) Caprolactam	8.622	113	163644m	45.287	ng	
36) 4-Chloro-3-methylphenol	8.733	107	523494	42.406	ng	99
37) 2-Methylnaphthalene	8.904	142	1090096	39.822	ng	99
38) 1-Methylnaphthalene	9.004	142	1143793	40.333	ng	100
40) 1,2,4,5-Tetrachloroben...	9.069	216	524634	39.471	ng	99
41) Hexachlorocyclopentadiene	9.057	237	668416	88.607	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	357651	43.423	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142255.D
Acq On : 01 May 2025 12:39
Operator : RC/JU
Sample : PB167810BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 13:05:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167810BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	388570	44.872	ng		98
46) 1,1'-Biphenyl	9.369	154	1458088	39.713	ng		100
47) 2-Chloronaphthalene	9.392	162	1093139	40.017	ng		100
48) 2-Nitroaniline	9.486	65	321433	44.957	ng		99
49) Acenaphthylene	9.810	152	1847757	40.085	ng		100
50) Dimethylphthalate	9.669	163	1268421	41.981	ng		100
51) 2,6-Dinitrotoluene	9.727	165	263569	45.692	ng		98
52) Acenaphthene	9.980	154	1164359	43.261	ng		100
53) 3-Nitroaniline	9.892	138	98911	16.287	ng		95
54) 2,4-Dinitrophenol	9.998	184	196654	90.602	ng	#	18
55) Dibenzofuran	10.157	168	1606504	39.818	ng		100
56) 4-Nitrophenol	10.045	139	484293	101.975	ng		98
57) 2,4-Dinitrotoluene	10.133	165	350987	49.818	ng		98
58) Fluorene	10.498	166	1221943	39.832	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.269	232	330098	46.019	ng		99
60) Diethylphthalate	10.369	149	1267747	42.490	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	585254	40.172	ng		99
62) 4-Nitroaniline	10.510	138	286425	44.888	ng		99
63) Azobenzene	10.651	77	1208231	41.009	ng		99
65) 4,6-Dinitro-2-methylph...	10.539	198	126239	47.699	ng		95
66) n-Nitrosodiphenylamine	10.610	169	1104532	40.164	ng		99
67) 4-Bromophenyl-phenylether	10.980	248	373384	41.655	ng		98
68) Hexachlorobenzene	11.045	284	417991	41.636	ng		100
69) Atrazine	11.133	200	332195	45.827	ng		98
70) Pentachlorophenol	11.233	266	495448	93.418	ng		98
71) Phenanthrene	11.463	178	1740817	40.041	ng		100
72) Anthracene	11.510	178	1786049	40.180	ng		100
73) Carbazole	11.663	167	1677441	41.368	ng		100
74) Di-n-butylphthalate	11.998	149	1839790	45.113	ng		100
75) Fluoranthene	12.645	202	1819275	42.331	ng		99
77) Benzidine	12.763	184	347980	17.635	ng		98
78) Pyrene	12.880	202	1803569	42.103	ng		99
80) Butylbenzylphthalate	13.498	149	532587	45.667	ng		99
81) Benzo(a)anthracene	14.062	228	1330282	42.672	ng		99
82) 3,3'-Dichlorobenzidine	14.027	252	74664	8.154	ng		98
83) Chrysene	14.104	228	1152993	40.631	ng		100
84) Bis(2-ethylhexyl)phtha...	14.057	149	632694	39.646	ng		99
85) Di-n-octyl phthalate	14.674	149	1144596	39.690	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1374940	42.010	ng		100
88) Benzo(b)fluoranthene	15.127	252	1207610	43.510	ng		99
89) Benzo(k)fluoranthene	15.156	252	1003805	39.540	ng		99
90) Benzo(a)pyrene	15.504	252	1073003	42.227	ng		100
91) Dibenzo(a,h)anthracene	17.098	278	1112811	41.894	ng		99
92) Benzo(g,h,i)perylene	17.539	276	1122234	42.026	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

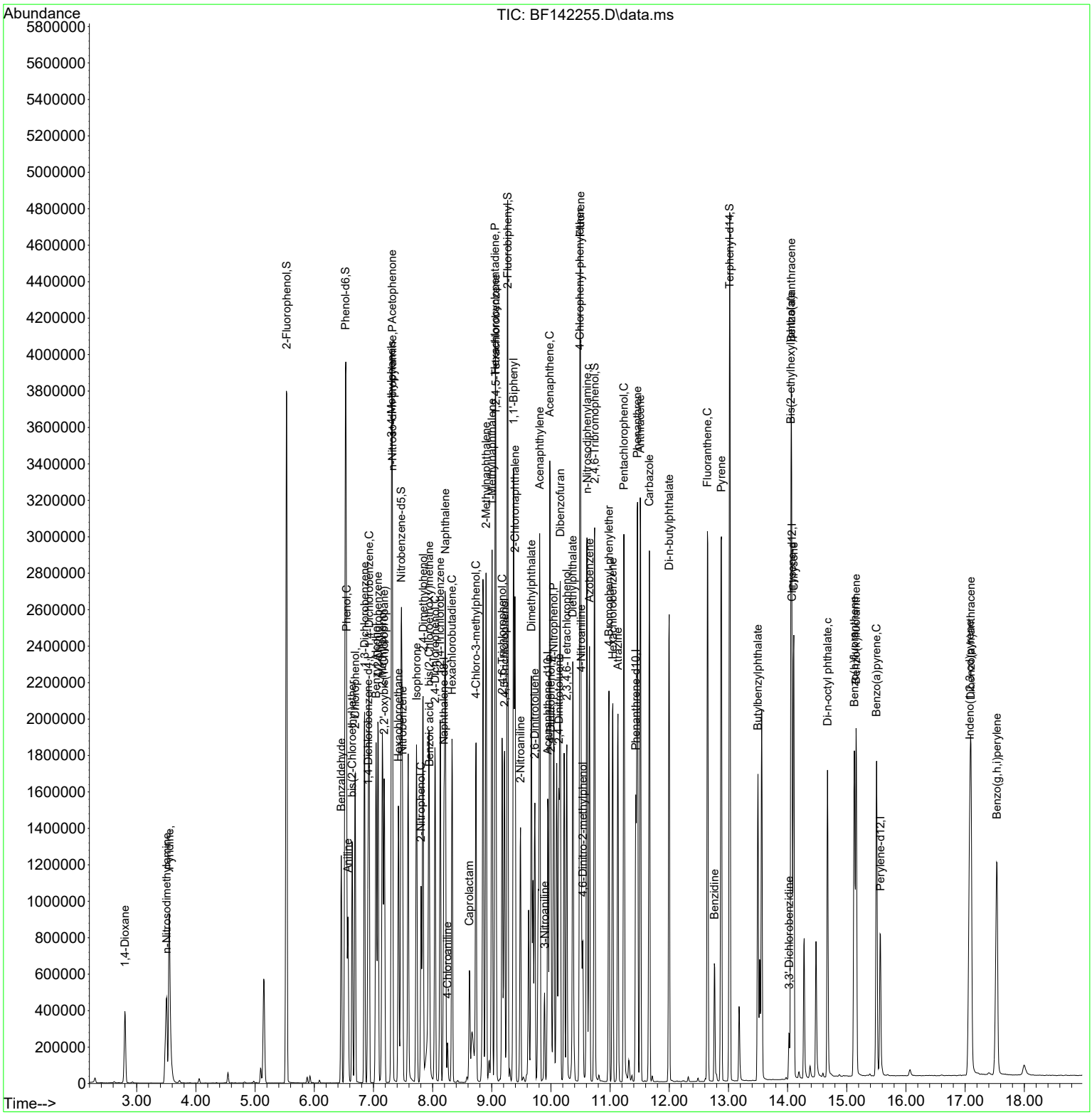
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142255.D
Acq On : 01 May 2025 12:39
Operator : RC/JU
Sample : PB167810BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 13:05:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167810BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142277.D
Acq On : 02 May 2025 12:27
Operator : RC/JU
Sample : Q1901-08MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 13:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/05/2025
Supervised By :Jagrut Upadhyay 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	212656	20.000	ng	0.00
21) Naphthalene-d8	8.193	136	808361	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	402059	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	629997	20.000	ng	0.00
76) Chrysene-d12	14.069	240	370460	20.000	ng	0.00
86) Perylene-d12	15.557	264	379220	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1285671	96.555	ng	0.01
7) Phenol-d6	6.528	99	1443545	89.776	ng	0.00
23) Nitrobenzene-d5	7.469	82	1033716	84.012	ng	0.00
42) 2,4,6-Tribromophenol	10.734	330	462379	126.149	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2016863	70.728	ng	0.00
79) Terphenyl-d14	13.016	244	1792164	70.359	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.822	88	169976	28.583	ng	# 84
3) Pyridine	3.546	79	415695	26.896	ng	99
4) n-Nitrosodimethylamine	3.481	42	278483	34.818	ng	99
6) Aniline	6.569	93	185208	8.138	ng	100
8) 2-Chlorophenol	6.693	128	531955	38.662	ng	99
9) Benzaldehyde	6.457	77	175465	15.613	ng	99
10) Phenol	6.540	94	537381m	31.043	ng	
11) bis(2-Chloroethyl)ether	6.646	93	502092	37.430	ng	99
12) 1,3-Dichlorobenzene	6.851	146	511679	32.873	ng	99
13) 1,4-Dichlorobenzene	6.928	146	527665	33.647	ng	99
14) 1,2-Dichlorobenzene	7.081	146	509008	33.999	ng	99
15) Benzyl Alcohol	7.046	79	445258	39.044	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	916352	37.830	ng	99
17) 2-Methylphenol	7.151	107	403260	35.777	ng	100
18) Hexachloroethane	7.422	117	180036	35.075	ng	97
19) n-Nitroso-di-n-propyla...	7.316	70	379242	38.168	ng	98
20) 3+4-Methylphenols	7.304	107	508536	36.077	ng	91
22) Acetophenone	7.316	105	714285	38.195	ng	97
24) Nitrobenzene	7.487	77	532026	44.068	ng	100
25) Isophorone	7.728	82	1017548	39.404	ng	99
26) 2-Nitrophenol	7.804	139	249952	48.946	ng	98
27) 2,4-Dimethylphenol	7.834	122	465938	35.787	ng	100
28) bis(2-Chloroethoxy)met...	7.934	93	653302	40.114	ng	100
29) 2,4-Dichlorophenol	8.040	162	450542	41.390	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	460388	37.902	ng	100
31) Naphthalene	8.210	128	1515067	37.582	ng	100
32) Benzoic acid	7.922	122	217267	37.981	ng	97
33) 4-Chloroaniline	8.251	127	79798	4.754	ng	99
34) Hexachlorobutadiene	8.328	225	267842	37.794	ng	99
35) Caprolactam	8.616	113	114486m	34.992	ng	
36) 4-Chloro-3-methylphenol	8.728	107	450003	40.260	ng	99
37) 2-Methylnaphthalene	8.898	142	965025	38.934	ng	99
38) 1-Methylnaphthalene	8.998	142	1001608	39.008	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	466320	41.212	ng	99
41) Hexachlorocyclopentadiene	9.057	237	570339	88.811	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	326161	46.517	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142277.D
Acq On : 02 May 2025 12:27
Operator : RC/JU
Sample : Q1901-08MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 13:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/05/2025
Supervised By :Jagrut Upadhyay 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	336279	45.616	ng		99
46) 1,1'-Biphenyl	9.363	154	1292053	41.337	ng		99
47) 2-Chloronaphthalene	9.392	162	960343	41.296	ng		99
48) 2-Nitroaniline	9.481	65	294596	48.035	ng		98
49) Acenaphthylene	9.810	152	1605889	40.923	ng		100
50) Dimethylphthalate	9.663	163	1104923	42.957	ng		100
51) 2,6-Dinitrotoluene	9.722	165	230556	46.839	ng		99
52) Acenaphthene	9.981	154	1000886	43.682	ng		99
53) 3-Nitroaniline	9.886	138	93454	17.726	ng		98
54) 2,4-Dinitrophenol	9.992	184	156192	86.643	ng	#	52
55) Dibenzofuran	10.151	168	1420255	41.350	ng		100
56) 4-Nitrophenol	10.039	139	369705	91.443	ng		99
57) 2,4-Dinitrotoluene	10.128	165	301103	50.164	ng		96
58) Fluorene	10.492	166	1070926	41.007	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	273427	44.776	ng		99
60) Diethylphthalate	10.363	149	1082961	42.636	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	522609	42.138	ng		96
62) 4-Nitroaniline	10.504	138	228504	42.238	ng		97
63) Azobenzene	10.645	77	1037185	41.352	ng		99
65) 4,6-Dinitro-2-methylph...	10.534	198	106866	50.723	ng		90
66) n-Nitrosodiphenylamine	10.604	169	918104	42.652	ng		99
67) 4-Bromophenyl-phenylether	10.975	248	319645	45.559	ng		98
68) Hexachlorobenzene	11.039	284	349088	44.425	ng		98
69) Atrazine	11.128	200	274854	48.442	ng		99
70) Pentachlorophenol	11.233	266	390510	94.071	ng		98
71) Phenanthrene	11.457	178	1459064	42.876	ng		100
72) Anthracene	11.510	178	1476623	42.440	ng		99
73) Carbazole	11.657	167	1322084	41.655	ng		100
74) Di-n-butylphthalate	11.992	149	1508741	47.265	ng		100
75) Fluoranthene	12.645	202	1362829	40.513	ng		98
77) Benzidine	12.763	184	40553	2.576	ng		97
78) Pyrene	12.875	202	1353270	39.600	ng		100
80) Butylbenzylphthalate	13.492	149	486120	51.715	ng		99
81) Benzo(a)anthracene	14.057	228	1077111	43.310	ng		100
82) 3,3'-Dichlorobenzidine	14.022	252	61349	8.398	ng		98
83) Chrysene	14.098	228	946310	41.802	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	628324	48.509	ng		99
85) Di-n-octyl phthalate	14.669	149	1009277	43.232	ng		99
87) Indeno(1,2,3-cd)pyrene	17.068	276	1154061	41.548	ng		100
88) Benzo(b)fluoranthene	15.121	252	1089899	46.269	ng		99
89) Benzo(k)fluoranthene	15.151	252	857957	39.820	ng		99
90) Benzo(a)pyrene	15.498	252	936845	43.441	ng		99
91) Dibenzo(a,h)anthracene	17.086	278	933265	41.398	ng		100
92) Benzo(g,h,i)perylene	17.521	276	936160	41.307	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

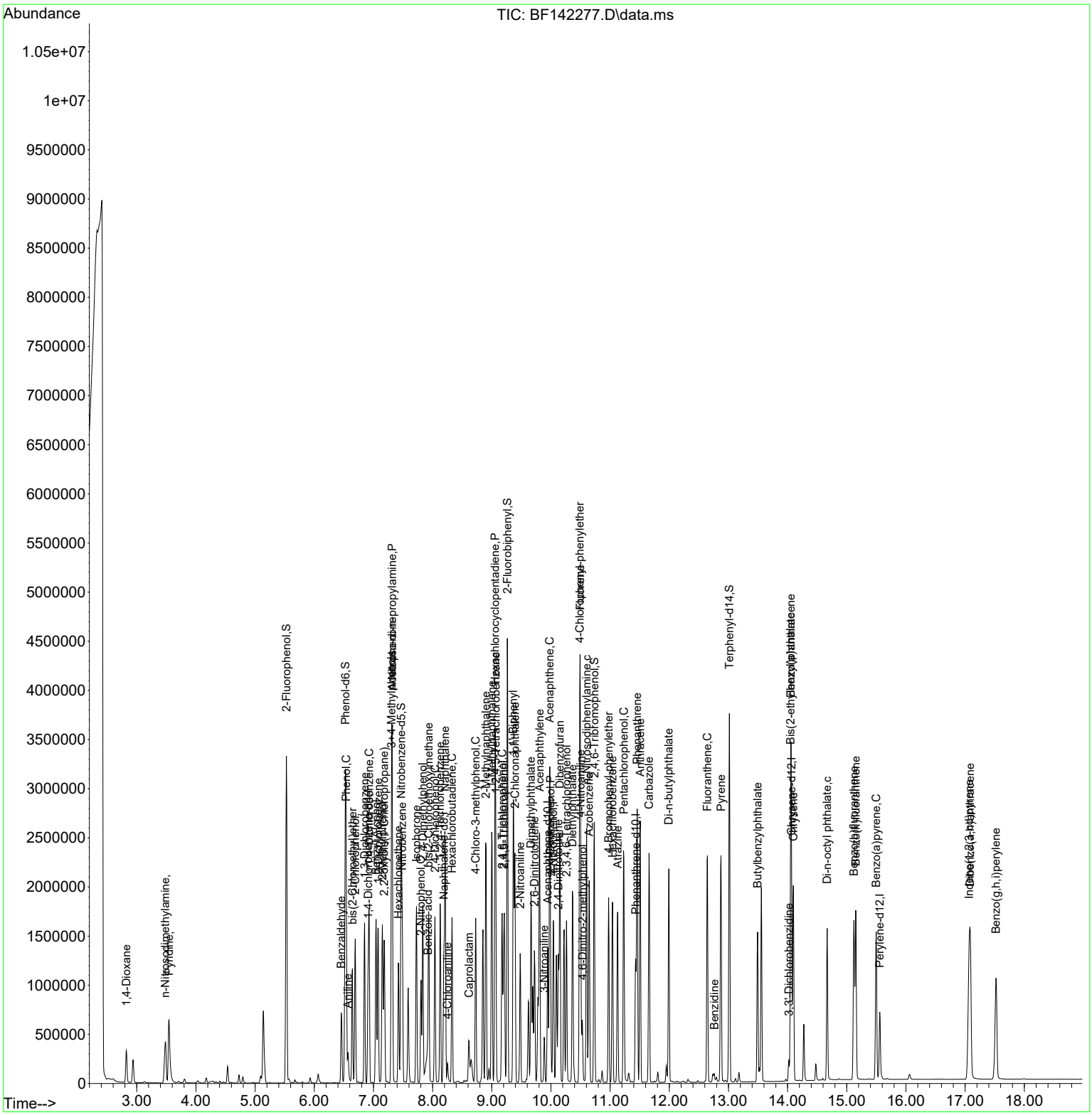
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142277.D
Acq On : 02 May 2025 12:27
Operator : RC/JU
Sample : Q1901-08MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 13:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/05/2025
Supervised By :Jagrut Upadhyay 05/05/2025



Sample Results: **BF142278.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142278.D
Acq On : 02 May 2025 12:55
Operator : RC/JU
Sample : Q1901-08MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 13:41:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/05/2025
Supervised By :Jagrut Upadhyay 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	217028	20.000	ng	0.00
21) Naphthalene-d8	8.193	136	832936	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	419407	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	684254	20.000	ng	0.00
76) Chrysene-d12	14.069	240	400079	20.000	ng	0.00
86) Perylene-d12	15.563	264	401381	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1351308	99.440	ng	0.01
7) Phenol-d6	6.528	99	1523396	92.834	ng	0.00
23) Nitrobenzene-d5	7.469	82	1112775	87.769	ng	0.00
42) 2,4,6-Tribromophenol	10.734	330	506639	132.507	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2151303	72.323	ng	0.00
79) Terphenyl-d14	13.016	244	2003750	72.842	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.828	88	174625	28.773	ng	# 82
3) Pyridine	3.546	79	441222	27.973	ng	100
4) n-Nitrosodimethylamine	3.487	42	294114	36.032	ng	99
6) Aniline	6.569	93	197398	8.499	ng	98
8) 2-Chlorophenol	6.693	128	562936	40.089	ng	99
9) Benzaldehyde	6.457	77	183950	16.038	ng	99
10) Phenol	6.540	94	571858m	32.370	ng	
11) bis(2-Chloroethyl)ether	6.646	93	532809	38.919	ng	99
12) 1,3-Dichlorobenzene	6.851	146	542334	34.140	ng	99
13) 1,4-Dichlorobenzene	6.928	146	548211	34.253	ng	99
14) 1,2-Dichlorobenzene	7.081	146	540561	35.379	ng	99
15) Benzyl Alcohol	7.046	79	478246	41.092	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.181	45	960997	38.874	ng	100
17) 2-Methylphenol	7.151	107	427556	37.168	ng	99
18) Hexachloroethane	7.422	117	192593	36.766	ng	96
19) n-Nitroso-di-n-propyla...	7.322	70	400784	39.523	ng	99
20) 3+4-Methylphenols	7.304	107	538223	37.414	ng	92
22) Acetophenone	7.316	105	748030	38.819	ng	97
24) Nitrobenzene	7.487	77	571114	45.910	ng	100
25) Isophorone	7.728	82	1075681	40.426	ng	99
26) 2-Nitrophenol	7.804	139	277477	51.929	ng	98
27) 2,4-Dimethylphenol	7.834	122	495291	36.919	ng	100
28) bis(2-Chloroethoxy)met...	7.934	93	685392	40.843	ng	99
29) 2,4-Dichlorophenol	8.040	162	483547	43.112	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	482951	38.586	ng	99
31) Naphthalene	8.210	128	1609412	38.745	ng	100
32) Benzoic acid	7.928	122	263320	42.769	ng	97
33) 4-Chloroaniline	8.251	127	72531	4.193	ng	99
34) Hexachlorobutadiene	8.328	225	287976	39.436	ng	99
35) Caprolactam	8.616	113	125300m	37.167	ng	
36) 4-Chloro-3-methylphenol	8.728	107	484815	42.095	ng	99
37) 2-Methylnaphthalene	8.904	142	1012785	39.656	ng	100
38) 1-Methylnaphthalene	8.998	142	1065609	40.276	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	493589	41.817	ng	99
41) Hexachlorocyclopentadiene	9.057	237	611613	91.299	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	351147	48.009	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142278.D
Acq On : 02 May 2025 12:55
Operator : RC/JU
Sample : Q1901-08MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 13:41:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/05/2025
Supervised By :Jagrut Upadhyay 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	361688	47.034	ng		99
46) 1,1'-Biphenyl	9.363	154	1368430	41.970	ng		100
47) 2-Chloronaphthalene	9.392	162	1020867	42.083	ng		99
48) 2-Nitroaniline	9.481	65	319718	49.782	ng		98
49) Acenaphthylene	9.810	152	1710079	41.776	ng		100
50) Dimethylphthalate	9.663	163	1199810	44.716	ng		100
51) 2,6-Dinitrotoluene	9.722	165	253926	49.228	ng		99
52) Acenaphthene	9.981	154	1087078	45.482	ng		98
53) 3-Nitroaniline	9.886	138	99043	17.958	ng		98
54) 2,4-Dinitrophenol	9.998	184	184644	93.898	ng	#	1
55) Dibenzofuran	10.151	168	1522541	42.495	ng		100
56) 4-Nitrophenol	10.045	139	407185	96.548	ng		99
57) 2,4-Dinitrotoluene	10.128	165	336232	53.345	ng		96
58) Fluorene	10.492	166	1144424	42.008	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	303708	47.678	ng		99
60) Diethylphthalate	10.369	149	1182771	44.640	ng		99
61) 4-Chlorophenyl-phenyle...	10.486	204	556055	42.980	ng		97
62) 4-Nitroaniline	10.504	138	257712	45.444	ng		98
63) Azobenzene	10.645	77	1119990	42.806	ng		99
65) 4,6-Dinitro-2-methylph...	10.534	198	125145	53.859	ng		94
66) n-Nitrosodiphenylamine	10.604	169	983989	42.088	ng		99
67) 4-Bromophenyl-phenylether	10.975	248	347963	45.662	ng		99
68) Hexachlorobenzene	11.039	284	382262	44.789	ng		97
69) Atrazine	11.128	200	312642	50.733	ng		99
70) Pentachlorophenol	11.233	266	437319	96.993	ng		99
71) Phenanthrene	11.457	178	1591587	43.062	ng		100
72) Anthracene	11.510	178	1599092	42.316	ng		100
73) Carbazole	11.657	167	1465976	42.526	ng		100
74) Di-n-butylphthalate	11.992	149	1677931	48.397	ng		100
75) Fluoranthene	12.645	202	1520599	41.619	ng		98
77) Benzidine	12.763	184	44894	2.641	ng		97
78) Pyrene	12.875	202	1524967	41.321	ng		100
80) Butylbenzylphthalate	13.492	149	558469	54.776	ng		99
81) Benzo(a)anthracene	14.063	228	1194007	44.456	ng		100
82) 3,3'-Dichlorobenzidine	14.022	252	70246	8.904	ng		99
83) Chrysene	14.098	228	1076915	44.049	ng		99
84) Bis(2-ethylhexyl)phtha...	14.051	149	722253	51.410	ng		99
85) Di-n-octyl phthalate	14.669	149	1156306	45.494	ng		99
87) Indeno(1,2,3-cd)pyrene	17.068	276	1219041	41.464	ng		100
88) Benzo(b)fluoranthene	15.121	252	1168207	46.856	ng		99
89) Benzo(k)fluoranthene	15.151	252	987950	43.322	ng		100
90) Benzo(a)pyrene	15.498	252	1023759	44.850	ng		100
91) Dibenzo(a,h)anthracene	17.092	278	988821	41.441	ng		99
92) Benzo(g,h,i)perylene	17.527	276	978093	40.775	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

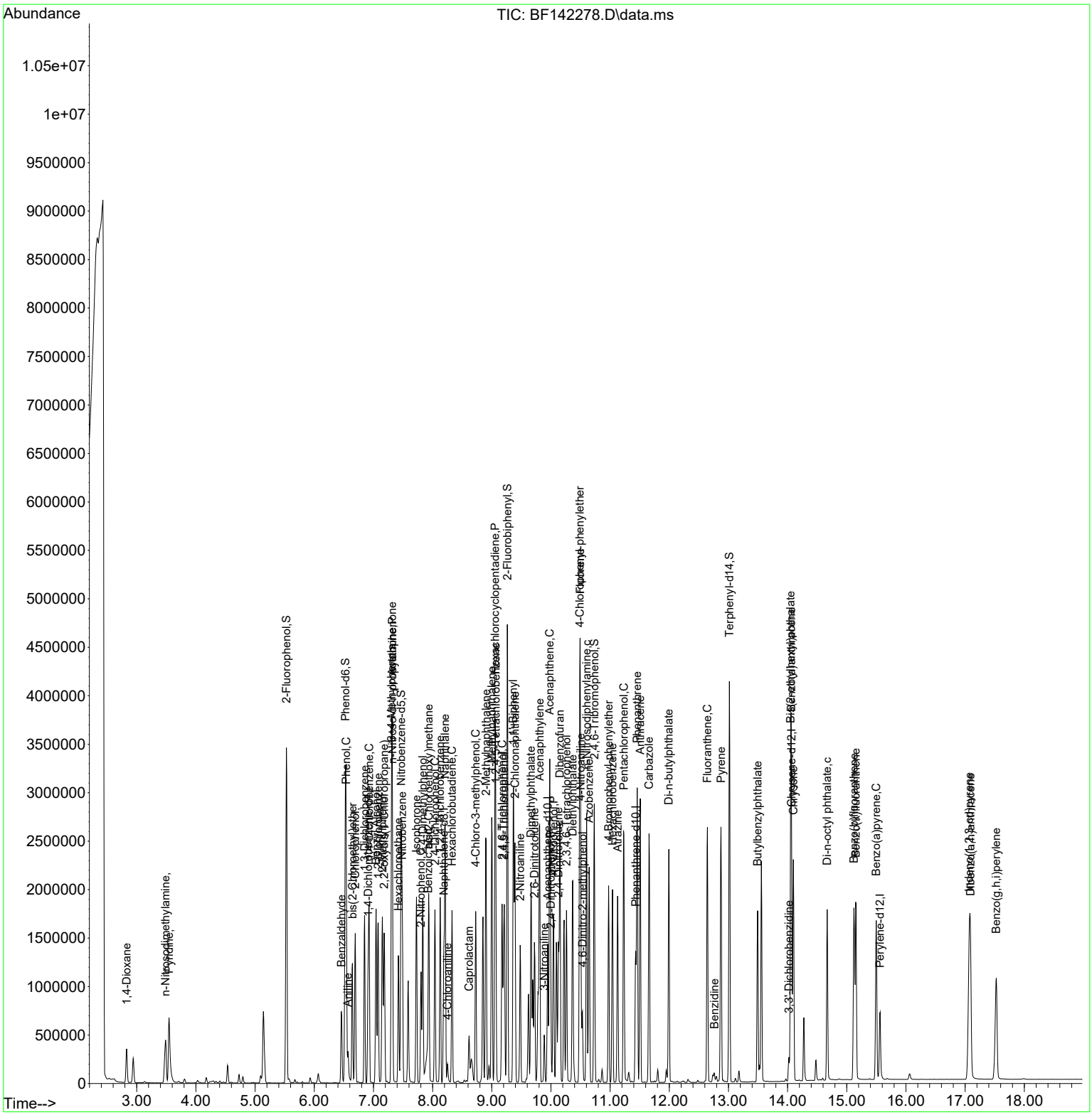
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050225\
Data File : BF142278.D
Acq On : 02 May 2025 12:55
Operator : RC/JU
Sample : Q1901-08MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 13:41:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/05/2025
Supervised By :Jagrut Upadhyay 05/05/2025



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

Manual Integration Report

Sequence:	BF043025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF142240.D	2,3,4,6-Tetrachlorophenol	Rahul	5/1/2025 11:26:17 AM	Jagrut	5/1/2025 1:17:43 PM	Peak Integrated by Software
SSTDICC020	BF142242.D	Benzoic acid	Rahul	5/1/2025 11:26:23 AM	Jagrut	5/1/2025 1:17:45 PM	Peak Integrated by Software
SSTDICCC040	BF142243.D	Benzoic acid	Rahul	5/1/2025 11:26:25 AM	Jagrut	5/1/2025 1:17:48 PM	Peak Integrated by Software
SSTDICC050	BF142244.D	Phenol	Rahul	5/1/2025 11:26:27 AM	Jagrut	5/1/2025 1:17:50 PM	Peak Integrated by Software
SSTDICC060	BF142245.D	Phenol	Rahul	5/1/2025 11:26:30 AM	Jagrut	5/1/2025 1:17:52 PM	Peak Integrated by Software
SSTDICC080	BF142246.D	Benzoic acid	Rahul	5/1/2025 11:26:33 AM	Jagrut	5/1/2025 1:17:55 PM	Peak Integrated by Software
SSTDICC080	BF142246.D	Phenol	Rahul	5/1/2025 11:26:33 AM	Jagrut	5/1/2025 1:17:55 PM	Peak Integrated by Software
SSTDICV040	BF142247.D	Benzoic acid	Rahul	5/1/2025 11:26:36 AM	Jagrut	5/1/2025 1:17:57 PM	Peak Integrated by Software
SSTDICV040	BF142247.D	Phenol	Rahul	5/1/2025 11:26:36 AM	Jagrut	5/1/2025 1:17:57 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf050125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142250.D	Benzoic acid	Rahul	5/2/2025 10:45:14 AM	Jagrut	5/2/2025 4:47:49 PM	Peak Integrated by Software
SSTDCCC040	BF142250.D	Phenol	Rahul	5/2/2025 10:45:14 AM	Jagrut	5/2/2025 4:47:49 PM	Peak Integrated by Software
PB167810BS	BF142255.D	Benzoic acid	Rahul	5/2/2025 10:45:25 AM	Jagrut	5/2/2025 4:47:56 PM	Peak Integrated by Software
PB167810BS	BF142255.D	Caprolactam	Rahul	5/2/2025 10:45:25 AM	Jagrut	5/2/2025 4:47:56 PM	Peak Integrated by Software
PB167810BS	BF142255.D	Phenol	Rahul	5/2/2025 10:45:25 AM	Jagrut	5/2/2025 4:47:56 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf050225	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142274.D	Benzoic acid	Rahul	5/5/2025 10:14:38 AM	Jagrut	5/5/2025 11:51:58 AM	Peak Integrated by Software
SSTDCCC040	BF142274.D	Phenol	Rahul	5/5/2025 10:14:38 AM	Jagrut	5/5/2025 11:51:58 AM	Peak Integrated by Software
Q1901-08MS	BF142277.D	Caprolactam	Rahul	5/5/2025 10:14:41 AM	Jagrut	5/5/2025 11:52:00 AM	Peak Integrated by Software
Q1901-08MS	BF142277.D	Phenol	Rahul	5/5/2025 10:14:41 AM	Jagrut	5/5/2025 11:52:00 AM	Peak Integrated by Software
Q1901-08MSD	BF142278.D	Caprolactam	Rahul	5/5/2025 10:14:44 AM	Jagrut	5/5/2025 11:52:03 AM	Peak Integrated by Software
Q1901-08MSD	BF142278.D	Phenol	Rahul	5/5/2025 10:14:44 AM	Jagrut	5/5/2025 11:52:03 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bp041425	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024276.D	Benzaldehyde	Rahul	4/15/2025 9:45:41 AM	Jagrut	4/15/2025 10:52:38 AM	Peak Integrated by Software
SSTDICC005	BP024276.D	Benzidine	Rahul	4/15/2025 9:45:41 AM	Jagrut	4/15/2025 10:52:38 AM	Peak Integrated by Software
SSTDICC010	BP024277.D	Benzaldehyde	Rahul	4/15/2025 9:46:12 AM	Jagrut	4/15/2025 10:52:41 AM	Peak Integrated by Software
SSTDICC010	BP024277.D	Benzoic acid	Rahul	4/15/2025 9:46:12 AM	Jagrut	4/15/2025 10:52:41 AM	Peak Integrated by Software
SSTDICC020	BP024278.D	Benzoic acid	Rahul	4/15/2025 9:46:28 AM	Jagrut	4/15/2025 10:52:44 AM	Peak Integrated by Software
SSTDICC050	BP024280.D	Indeno(1,2,3-cd)pyrene	Rahul	4/15/2025 9:47:02 AM	Jagrut	4/15/2025 10:52:46 AM	Peak Integrated by Software
SSTDICC050	BP024280.D	Pyridine	Rahul	4/15/2025 9:47:02 AM	Jagrut	4/15/2025 10:52:46 AM	Peak Integrated by Software
SSTDICC060	BP024281.D	Benzoic acid	Rahul	4/15/2025 9:47:31 AM	Jagrut	4/15/2025 10:52:48 AM	Peak Integrated by Software
SSTDICC060	BP024281.D	Indeno(1,2,3-cd)pyrene	Rahul	4/15/2025 9:47:31 AM	Jagrut	4/15/2025 10:52:48 AM	Peak Integrated by Software
SSTDICC060	BP024281.D	Pyridine	Rahul	4/15/2025 9:47:31 AM	Jagrut	4/15/2025 10:52:48 AM	Peak Integrated by Software
SSTDICC080	BP024282.D	Benzidine	Rahul	4/15/2025 9:48:04 AM	Jagrut	4/15/2025 10:52:51 AM	Peak Integrated by Software
SSTDICC080	BP024282.D	Benzoic acid	Rahul	4/15/2025 9:48:04 AM	Jagrut	4/15/2025 10:52:51 AM	Peak Integrated by Software
SSTDICC080	BP024282.D	Pyridine	Rahul	4/15/2025 9:48:04 AM	Jagrut	4/15/2025 10:52:51 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bp041425	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICV040	BP024283.D	Indeno(1,2,3-cd)pyrene	Rahul	4/15/2025 9:50:13 AM	Jagrut	4/15/2025 10:52:54 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BP050525	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024538.D	Benzidine	Rahul	5/6/2025 9:57:47 AM	Jagrut	5/6/2025 10:50:38 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF043025

Review By	Rahul	Review On	5/1/2025 1:20:20 PM		
Supervise By	Jagrut	Supervise On	5/1/2025 1:23:08 PM		
SubDirectory	BF043025	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142238.D	30 Apr 2025 10:55	RC/JU	Ok
2	SSTDICC2.5	BF142239.D	30 Apr 2025 11:24	RC/JU	Ok
3	SSTDICC005	BF142240.D	30 Apr 2025 11:52	RC/JU	Ok,M
4	SSTDICC010	BF142241.D	30 Apr 2025 12:20	RC/JU	Ok
5	SSTDICC020	BF142242.D	30 Apr 2025 12:49	RC/JU	Ok,M
6	SSTDICCC040	BF142243.D	30 Apr 2025 13:17	RC/JU	Ok,M
7	SSTDICC050	BF142244.D	30 Apr 2025 13:46	RC/JU	Ok,M
8	SSTDICC060	BF142245.D	30 Apr 2025 14:15	RC/JU	Ok,M
9	SSTDICC080	BF142246.D	30 Apr 2025 14:43	RC/JU	Ok,M
10	SSTDICV040	BF142247.D	30 Apr 2025 16:17	RC/JU	Ok,M
11	PB167726BL	BF142248.D	30 Apr 2025 17:15	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM				
SubDirectory	BF050125	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142249.D	01 May 2025 09:48	RC/JU	Ok
2	SSTDCCC040	BF142250.D	01 May 2025 10:17	RC/JU	Ok,M
3	PB167798BL	BF142251.D	01 May 2025 10:45	RC/JU	Ok
4	PB167798BS	BF142252.D	01 May 2025 11:13	RC/JU	Ok,M
5	PB167798BSD	BF142253.D	01 May 2025 11:42	RC/JU	Ok,M
6	PB167810BL	BF142254.D	01 May 2025 12:10	RC/JU	Ok
7	PB167810BS	BF142255.D	01 May 2025 12:39	RC/JU	Ok,M
8	PB167774TB	BF142256.D	01 May 2025 13:07	RC/JU	Ok
9	Q1890-01	BF142257.D	01 May 2025 13:40	RC/JU	Ok
10	Q1920-01	BF142258.D	01 May 2025 14:09	RC/JU	Ok,M
11	Q1914-14	BF142259.D	01 May 2025 14:37	RC/JU	Ok
12	Q1913-04	BF142260.D	01 May 2025 15:06	RC/JU	Ok
13	Q1915-01	BF142261.D	01 May 2025 15:34	RC/JU	Ok
14	Q1903-01	BF142262.D	01 May 2025 16:03	RC/JU	Ok
15	Q1903-02	BF142263.D	01 May 2025 16:31	RC/JU	Ok
16	Q1903-03	BF142264.D	01 May 2025 17:00	RC/JU	Ok
17	Q1906-01	BF142265.D	01 May 2025 17:29	RC/JU	Ok
18	Q1906-13	BF142266.D	01 May 2025 17:57	RC/JU	Ok
19	Q1901-06	BF142267.D	01 May 2025 18:26	RC/JU	Ok
20	Q1901-02	BF142268.D	01 May 2025 18:55	RC/JU	Ok,M
21	Q1901-02MS	BF142269.D	01 May 2025 19:24	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM				
SubDirectory	BF050125	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1901-02MSD	BF142270.D	01 May 2025 19:52	RC/JU	Ok,M
23	Q1901-04	BF142271.D	01 May 2025 20:20	RC/JU	Ok
24	Q1901-05	BF142272.D	01 May 2025 20:49	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050225

Review By	Rahul	Review On	5/5/2025 10:18:55 AM				
Supervise By	Jagrut	Supervise On	5/5/2025 11:52:39 AM				
SubDirectory	BF050225	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142273.D	02 May 2025 10:11	RC/JU	Ok
2	SSTDCCC040	BF142274.D	02 May 2025 10:39	RC/JU	Ok,M
3	PB167774TB	BF142275.D	02 May 2025 11:07	RC/JU	Not Ok
4	Q1901-08	BF142276.D	02 May 2025 11:58	RC/JU	Ok
5	Q1901-08MS	BF142277.D	02 May 2025 12:27	RC/JU	Ok,M
6	Q1901-08MSD	BF142278.D	02 May 2025 12:55	RC/JU	Ok,M
7	Q1901-09	BF142279.D	02 May 2025 13:24	RC/JU	Ok
8	Q1901-10	BF142280.D	02 May 2025 13:53	RC/JU	ReRun
9	Q1901-11	BF142281.D	02 May 2025 14:22	RC/JU	Ok
10	Q1907-02	BF142282.D	02 May 2025 14:51	RC/JU	ReRun
11	Q1916-04	BF142283.D	02 May 2025 16:20	RC/JU	Ok
12	Q1916-04MS	BF142284.D	02 May 2025 16:49	RC/JU	Ok,M
13	Q1916-04MSD	BF142285.D	02 May 2025 17:18	RC/JU	Ok,M
14	Q1932-02	BF142286.D	02 May 2025 17:47	RC/JU	Ok
15	Q1932-04	BF142287.D	02 May 2025 18:16	RC/JU	Ok
16	Q1932-06	BF142288.D	02 May 2025 18:46	RC/JU	ReRun
17	Q1932-08	BF142289.D	02 May 2025 19:15	RC/JU	Ok
18	Q1917-04	BF142290.D	02 May 2025 19:44	RC/JU	Ok
19	Q1922-04	BF142291.D	02 May 2025 20:13	RC/JU	Ok
20	Q1922-08	BF142292.D	02 May 2025 20:42	RC/JU	Ok
21	Q1929-03	BF142293.D	02 May 2025 21:11	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041425

Review By	Rahul	Review On	4/15/2025 9:55:40 AM		
Supervise By	Jagrut	Supervise On	4/15/2025 10:53:04 AM		
SubDirectory	BP041425	HP Acquire Method	BNA_P	HP Processing Method	bp041425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12659,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024274.D	14 Apr 2025 10:25	RC/JU	Ok
2	SSTDICC2.5	BP024275.D	14 Apr 2025 11:06	RC/JU	Ok
3	SSTDICC005	BP024276.D	14 Apr 2025 11:47	RC/JU	Ok,M
4	SSTDICC010	BP024277.D	14 Apr 2025 12:27	RC/JU	Ok,M
5	SSTDICC020	BP024278.D	14 Apr 2025 13:08	RC/JU	Ok,M
6	SSTDICCC040	BP024279.D	14 Apr 2025 13:49	RC/JU	Ok
7	SSTDICC050	BP024280.D	14 Apr 2025 15:10	RC/JU	Ok,M
8	SSTDICC060	BP024281.D	14 Apr 2025 16:32	RC/JU	Ok,M
9	SSTDICC080	BP024282.D	14 Apr 2025 17:13	RC/JU	Ok,M
10	SSTDICV040	BP024283.D	14 Apr 2025 18:35	RC/JU	Ok,M
11	PB167488TB	BP024284.D	14 Apr 2025 19:16	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP050525

Review By	Rahul	Review On	5/6/2025 9:58:11 AM				
Supervise By	Jagrut	Supervise On	5/6/2025 10:50:58 AM				
SubDirectory	BP050525	HP Acquire Method	BNA_P		HP Processing Method	bp041425	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024521.D	05 May 2025 11:57	RC/JU	Ok
2	SSTDCCC040	BP024522.D	05 May 2025 12:38	RC/JU	Ok
3	PB167836BL	BP024523.D	05 May 2025 13:18	RC/JU	Ok
4	PB167836BS	BP024524.D	05 May 2025 13:59	RC/JU	Ok
5	Q1883-05RX	BP024525.D	05 May 2025 14:43	RC/JU	Confirms
6	Q1928-01MS	BP024526.D	05 May 2025 15:24	RC/JU	Ok
7	Q1928-01MSD	BP024527.D	05 May 2025 16:05	RC/JU	Ok,M
8	Q1935-01	BP024528.D	05 May 2025 16:45	RC/JU	Ok
9	Q1901-10RE	BP024529.D	05 May 2025 17:26	RC/JU	Confirms
10	Q1907-02RE	BP024530.D	05 May 2025 18:07	RC/JU	Confirms
11	Q1932-06RE	BP024531.D	05 May 2025 18:47	RC/JU	Confirms
12	Q1929-07	BP024532.D	05 May 2025 19:28	RC/JU	Ok
13	Q1929-11	BP024533.D	05 May 2025 20:09	RC/JU	Ok
14	Q1935-04	BP024534.D	05 May 2025 20:49	RC/JU	Ok
15	Q1935-08	BP024535.D	05 May 2025 21:30	RC/JU	Ok
16	Q1928-04	BP024536.D	05 May 2025 22:11	RC/JU	Ok
17	Q1946-01	BP024537.D	05 May 2025 22:52	RC/JU	Ok
18	SSTDCCC040	BP024538.D	05 May 2025 23:32	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF043025

Review By	Rahul	Review On	5/1/2025 1:20:20 PM		
Supervise By	Jagrut	Supervise On	5/1/2025 1:23:08 PM		
SubDirectory	BF043025	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142238.D	30 Apr 2025 10:55		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF142239.D	30 Apr 2025 11:24		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF142240.D	30 Apr 2025 11:52	Compound#32,54,56,65,70,85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF142241.D	30 Apr 2025 12:20		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF142242.D	30 Apr 2025 12:49		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF142243.D	30 Apr 2025 13:17	Compound#32,48,51,53,57,62,65,80,84,85 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF142244.D	30 Apr 2025 13:46	Compound#26,54 Kept on QR	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF142245.D	30 Apr 2025 14:15		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF142246.D	30 Apr 2025 14:43		RC/JU	Ok,M
10	SSTDICV040	ICVBF043025	BF142247.D	30 Apr 2025 16:17		RC/JU	Ok,M
11	PB167726BL	PB167726BL	BF142248.D	30 Apr 2025 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM		
SubDirectory	BF050125	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142249.D	01 May 2025 09:48		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142250.D	01 May 2025 10:17		RC/JU	Ok,M
3	PB167798BL	PB167798BL	BF142251.D	01 May 2025 10:45		RC/JU	Ok
4	PB167798BS	PB167798BS	BF142252.D	01 May 2025 11:13		RC/JU	Ok,M
5	PB167798BSD	PB167798BSD	BF142253.D	01 May 2025 11:42		RC/JU	Ok,M
6	PB167810BL	PB167810BL	BF142254.D	01 May 2025 12:10		RC/JU	Ok
7	PB167810BS	PB167810BS	BF142255.D	01 May 2025 12:39		RC/JU	Ok,M
8	PB167774TB	PB167774TB	BF142256.D	01 May 2025 13:07		RC/JU	Ok
9	Q1890-01	TW-WTS-07	BF142257.D	01 May 2025 13:40		RC/JU	Ok
10	Q1920-01	291	BF142258.D	01 May 2025 14:09		RC/JU	Ok,M
11	Q1914-14	FB04282025	BF142259.D	01 May 2025 14:37		RC/JU	Ok
12	Q1913-04	WC-13-A-202504	BF142260.D	01 May 2025 15:06		RC/JU	Ok
13	Q1915-01	WC-04282025	BF142261.D	01 May 2025 15:34		RC/JU	Ok
14	Q1903-01	COMP-4	BF142262.D	01 May 2025 16:03		RC/JU	Ok
15	Q1903-02	COMP-5	BF142263.D	01 May 2025 16:31		RC/JU	Ok
16	Q1903-03	COMP-6	BF142264.D	01 May 2025 17:00		RC/JU	Ok
17	Q1906-01	WC-4	BF142265.D	01 May 2025 17:29		RC/JU	Ok
18	Q1906-13	WC-7	BF142266.D	01 May 2025 17:57		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM		
SubDirectory	BF050125	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1901-06	FB04262025	BF142267.D	01 May 2025 18:26		RC/JU	Ok
20	Q1901-02	B-167-SB01	BF142268.D	01 May 2025 18:55		RC/JU	Ok,M
21	Q1901-02MS	B-167-SB01MS	BF142269.D	01 May 2025 19:24		RC/JU	Ok,M
22	Q1901-02MSD	B-167-SB01MSD	BF142270.D	01 May 2025 19:52		RC/JU	Ok,M
23	Q1901-04	B-167-SB02	BF142271.D	01 May 2025 20:20		RC/JU	Ok
24	Q1901-05	B-170-SB02	BF142272.D	01 May 2025 20:49		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050225

Review By	Rahul	Review On	5/5/2025 10:18:55 AM		
Supervise By	Jagrut	Supervise On	5/5/2025 11:52:39 AM		
SubDirectory	BF050225	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142273.D	02 May 2025 10:11		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142274.D	02 May 2025 10:39		RC/JU	Ok,M
3	PB167774TB	PB167774TB	BF142275.D	02 May 2025 11:07	Analyzed for contamination check	RC/JU	Not Ok
4	Q1901-08	B-167-SB01	BF142276.D	02 May 2025 11:58		RC/JU	Ok
5	Q1901-08MS	B-167-SB01MS	BF142277.D	02 May 2025 12:27		RC/JU	Ok,M
6	Q1901-08MSD	B-167-SB01MSD	BF142278.D	02 May 2025 12:55		RC/JU	Ok,M
7	Q1901-09	B-170-SB01	BF142279.D	02 May 2025 13:24		RC/JU	Ok
8	Q1901-10	B-167-SB02	BF142280.D	02 May 2025 13:53	Internal Standard Fail	RC/JU	ReRun
9	Q1901-11	B-170-SB02	BF142281.D	02 May 2025 14:22		RC/JU	Ok
10	Q1907-02	CO-8R-WC	BF142282.D	02 May 2025 14:51	Internal Standard and surrogates Fail	RC/JU	ReRun
11	Q1916-04	WC-12	BF142283.D	02 May 2025 16:20		RC/JU	Ok
12	Q1916-04MS	WC-12MS	BF142284.D	02 May 2025 16:49		RC/JU	Ok,M
13	Q1916-04MSD	WC-12MSD	BF142285.D	02 May 2025 17:18		RC/JU	Ok,M
14	Q1932-02	COMP-4	BF142286.D	02 May 2025 17:47		RC/JU	Ok
15	Q1932-04	COMP-5	BF142287.D	02 May 2025 18:16		RC/JU	Ok
16	Q1932-06	COMP-6	BF142288.D	02 May 2025 18:46	Surrogate Fail	RC/JU	ReRun
17	Q1932-08	COMP-7	BF142289.D	02 May 2025 19:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF050225

Review By	Rahul	Review On	5/5/2025 10:18:55 AM		
Supervise By	Jagrut	Supervise On	5/5/2025 11:52:39 AM		
SubDirectory	BF050225	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1917-04	MH-JJ	BF142290.D	02 May 2025 19:44		RC/JU	Ok
19	Q1922-04	MH-R	BF142291.D	02 May 2025 20:13		RC/JU	Ok
20	Q1922-08	MH-S	BF142292.D	02 May 2025 20:42		RC/JU	Ok
21	Q1929-03	WC-A4-02-C	BF142293.D	02 May 2025 21:11		RC/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041425

Review By	Rahul	Review On	4/15/2025 9:55:40 AM		
Supervise By	Jagrut	Supervise On	4/15/2025 10:53:04 AM		
SubDirectory	BP041425	HP Acquire Method	BNA_P	HP Processing Method	bp041425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12659,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024274.D	14 Apr 2025 10:25		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024275.D	14 Apr 2025 11:06		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024276.D	14 Apr 2025 11:47	Compound #32,54,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024277.D	14 Apr 2025 12:27		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024278.D	14 Apr 2025 13:08		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BP024279.D	14 Apr 2025 13:49	This calibration is fail for Com#77	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BP024280.D	14 Apr 2025 15:10	This calibration is good for 8270E, 8270 DOD and 625.1 methods except Compound#77	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BP024281.D	14 Apr 2025 16:32	Compound #69 Removed from 60PPM	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP024282.D	14 Apr 2025 17:13	Compound #69 Removed from 80PPM	RC/JU	Ok,M
10	SSTDICV040	ICVBP041425	BP024283.D	14 Apr 2025 18:35		RC/JU	Ok,M
11	PB167488TB	PB167488TB	BP024284.D	14 Apr 2025 19:16		RC/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP050525

Review By	Rahul	Review On	5/6/2025 9:58:11 AM		
Supervise By	Jagrut	Supervise On	5/6/2025 10:50:58 AM		
SubDirectory	BP050525	HP Acquire Method	BNA_P	HP Processing Method	bp041425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024521.D	05 May 2025 11:57		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024522.D	05 May 2025 12:38		RC/JU	Ok
3	PB167836BL	PB167836BL	BP024523.D	05 May 2025 13:18		RC/JU	Ok
4	PB167836BS	PB167836BS	BP024524.D	05 May 2025 13:59		RC/JU	Ok
5	Q1883-05RX	OU4-PCS-TC-29-04232	BP024525.D	05 May 2025 14:43	Surrogate Fail	RC/JU	Confirms
6	Q1928-01MS	MH-QMS	BP024526.D	05 May 2025 15:24		RC/JU	Ok
7	Q1928-01MSD	MH-QMSD	BP024527.D	05 May 2025 16:05		RC/JU	Ok,M
8	Q1935-01	MH-NN	BP024528.D	05 May 2025 16:45		RC/JU	Ok
9	Q1901-10RE	B-167-SB02RE	BP024529.D	05 May 2025 17:26	Internal Standard and surrogate Fail	RC/JU	Confirms
10	Q1907-02RE	CO-8R-WCRE	BP024530.D	05 May 2025 18:07	Internal Standard and surrogate Fail	RC/JU	Confirms
11	Q1932-06RE	COMP-6RE	BP024531.D	05 May 2025 18:47	Surrogate Fail	RC/JU	Confirms
12	Q1929-07	WC-A1-03-C	BP024532.D	05 May 2025 19:28		RC/JU	Ok
13	Q1929-11	WC-A1-04-C	BP024533.D	05 May 2025 20:09		RC/JU	Ok
14	Q1935-04	MH-NN	BP024534.D	05 May 2025 20:49		RC/JU	Ok
15	Q1935-08	MH-MM	BP024535.D	05 May 2025 21:30		RC/JU	Ok
16	Q1928-04	MH-Q	BP024536.D	05 May 2025 22:11		RC/JU	Ok
17	Q1946-01	BB-CONCRETE	BP024537.D	05 May 2025 22:52		RC/JU	Ok

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP050525

Review By	Rahul	Review On	5/6/2025 9:58:11 AM		
Supervise By	Jagrut	Supervise On	5/6/2025 10:50:58 AM		
SubDirectory	BP050525	HP Acquire Method	BNA_P	HP Processing Method	bp041425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC040	SSTDCCC040EC	BP024538.D	05 May 2025 23:32		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/29/2025 **Time :** 17:20

End Prep Date : 04/30/2025 **Time :** 11:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 10

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Particle size reduction is not required. q1894-01,02 and 03 we receive limited volume so no fluid determation. Q1901-08 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 13:00	JP Prep Room	SLG. RJ/ET
	Preparation Group	Analysis Group MTN,JG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-1
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-1
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-1
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB167774

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	100	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	100	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	100	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167774

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.02	96.5	8.4	3.0	#1	4.93
Q1901-09	B-170-SB01	5.01	96.5	9.0	4.0	#1	4.93
Q1901-10	B-167-SB02	5.02	96.5	7.0	3.5	#1	4.93
Q1901-11	B-170-SB02	5.03	96.5	8.2	3.5	#1	4.93
Q1904-02	VNJ-210	5.04	96.5	8.4	3.0	#1	4.93
Q1905-04	MH-G	5.03	96.5	5.6	1.5	#1	4.93
Q1905-08	MH-H	5.02	96.5	6.0	2.0	#1	4.93
Q1906-04	WC-4	5.03	96.5	7.6	2.5	#1	4.93
Q1906-08	WC-5	5.02	96.5	7.0	2.5	#1	4.93
Q1906-12	WC-6	5.01	96.5	6.6	2.0	#1	4.93
Q1906-16	WC-7	5.02	96.5	6.6	2.0	#1	4.93
Q1907-02	CO-8R-WC	5.02	96.5	8.4	3.0	#1	4.93
Q1912-04	MH-E	5.01	96.5	6.6	2.0	#1	4.93
Q1912-08	MH-F	5.02	96.5	6.4	2.0	#1	4.93
Q1913-01	WC-12-S-202504	5.02	96.5	8.2	3.5	#1	4.93
Q1913-03	WC-13-S-202504	5.01	96.5	8.0	3.0	#1	4.93
Q1915-01	WC-04282025	5.02	96.5	8.4	3.5	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q1907 **WorkList ID :** 189188 **Department :** TCLP Extraction **Date :** 04-29-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1913-03	WC-13-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1915-01	WC-04282025	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1901-08	B-167-SB01	Solid	TCLP Extraction	Cool 4 deg C	CAMP02	L41	04/28/2025	1311
Q1901-09	B-170-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-10	B-167-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-11	B-170-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-01	PAINTED-GROUND-PIPE--1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-02	PAINTED-GROUND-PIPE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1894-03	PAINTED-GROUND-PIPE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1904-02	VNJ-210	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1905-04	MH-G	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1905-08	MH-H	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-04	WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-08	WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-12	WC-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-16	WC-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-04	MH-E	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-08	MH-F	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311
Q1907-02	CO-8R-WC	Solid	TCLP Extraction	Cool 4 deg C	WALS01		04/28/2025	1311

Date/Time 04/29/25 17:00

Raw Sample Received by: ~~SO~~ WOC

Raw Sample Relinquished by: JD CSM

Date/Time 04/29/25 19:30

Raw Sample Received by: JD CSM

Raw Sample Relinquished by: ~~SO~~ WOC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167810

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/30/2025
Matrix :	Water			**Extraction Start Time :**	13:15
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	04/30/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	18:25
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	RUPESH

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2607
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/30/25	RS (Extr Lab)	RC/SVOC
18:10	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167810

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 04/30/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167774TB	PB167774TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB167805TB	PB167805TB	TCLP BNA	100	6	RUPESH	ritesh	1			2
PB167810BL	PB167810BL	TCLP BNA	1000	6	RUPESH	ritesh	1			3
PB167810BS	PB167810BS	TCLP BNA	1000	6	RUPESH	ritesh	1			4
Q1901-08	B-167-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1901-08MS	B-167-SB01MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q1901-08MSD	B-167-SB01MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q1901-09	B-170-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q1901-10	B-167-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
Q1901-11	B-170-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
Q1904-02	VNJ-210	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
Q1905-04	MH-G	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
Q1905-08	MH-H	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
Q1906-04	WC-4	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
Q1906-08	WC-5	TCLP BNA	100	6	RUPESH	ritesh	1	A		15
Q1906-12	WC-6	TCLP BNA	100	6	RUPESH	ritesh	1	A		16
Q1906-16	WC-7	TCLP BNA	100	6	RUPESH	ritesh	1	A		SEP-1
Q1907-02	CO-8R-WC	TCLP BNA	100	6	RUPESH	ritesh	1	A		2
Q1912-04	MH-E	TCLP BNA	100	6	RUPESH	ritesh	1	A		3
Q1912-08	MH-F	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q1913-01	WC-12-S-202504	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1913-02	WC-12-A-202504	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q1913-03	WC-13-S-202504	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q1913-04	WC-13-A-202504	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q1915-01	WC-04282025	TCLP BNA	100	6	RUPESH	ritesh	1	A		9

RS
4/30

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	P Pos
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

04/30/25
23:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167805

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pr Pos
PB167805TB	LEB805	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/
Q1913-02	WC-12-A-202504	N/A	N/A	N/A	N/A	N/A	N/A	12.0	1.5	N/
Q1913-04	WC-13-A-202504	N/A	N/A	N/A	N/A	N/A	N/A	12.0	1.5	N/

04/30/25

13:00

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

LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/30/25	05/01/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP BNA	8270E		04/30/25	05/02/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP BNA	8270E		04/30/25	05/02/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP BNA	8270E		04/30/25	05/02/25	
Q1901-10RE	**B-167-SB02RE**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP BNA	8270E		04/30/25	05/05/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP BNA	8270E		04/30/25	05/02/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Raw Data: **PD088372.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/01/25
Client Sample ID:	PB167774TB	SDG No.:	Q1901
Lab Sample ID:	PB167774TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088372.D	1	05/01/25 08:56	05/01/25 14:06	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		30 (43) - 150 (140)	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		30 (77) - 150 (126)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088376.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088376.D	1	05/01/25 08:56	05/01/25 15:01	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		30 (77) - 150 (126)	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088379.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088379.D	1	05/01/25 08:56	05/01/25 15:42	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.9		30 (43) - 150 (140)	100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		30 (77) - 150 (126)	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088380.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088380.D	1	05/01/25 08:56	05/01/25 15:56	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		30 (43) - 150 (140)	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		30 (77) - 150 (126)	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088381.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088381.D	1	05/01/25 08:56	05/01/25 16:10	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.7		30 (43) - 150 (140)	89%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		30 (77) - 150 (126)	91%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088121.D	PIBLK-PD088121.D	Decachlorobiphenyl	1	20	22.9	115		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.1	101		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.7	113		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.9	104		30 (77)	150 (126)
I.BLK-PD088368.D	PIBLK-PD088368.D	Decachlorobiphenyl	1	20	20.7	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.9	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.8	99		30 (77)	150 (126)
PB167820BL	PB167820BL	Decachlorobiphenyl	1	20	18.6	93		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.0	90		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.8	84		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.5	92		30 (77)	150 (126)
PB167820BS	PB167820BS	Decachlorobiphenyl	1	20	20.5	102		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.0	100		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.7	93		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.5	103		30 (77)	150 (126)
PB167774TB	PB167774TB	Decachlorobiphenyl	1	20	19.1	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	17.2	86		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.9	94		30 (77)	150 (126)
Q1901-08	B-167-SB01	Decachlorobiphenyl	1	20	20.7	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.5	97		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.5	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.6	98		30 (77)	150 (126)
Q1901-08MS	B-167-SB01MS	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.8	94		30 (77)	150 (126)
Q1901-08MSD	B-167-SB01MSD	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.9	94		30 (77)	150 (126)
Q1901-09	B-170-SB01	Decachlorobiphenyl	1	20	19.9	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.9	95		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.1	91		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (77)	150 (126)
Q1901-10	B-167-SB02	Decachlorobiphenyl	1	20	19.3	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.5	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	17.4	87		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.0	90		30 (77)	150 (126)
Q1901-11	B-170-SB02	Decachlorobiphenyl	1	20	17.7	89		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q1901-11	B-170-SB02	Tetrachloro-m-xylene	1	20	18.1	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.2	81		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.9	89		30 (77)	150 (126)
I.BLK-PD088383.D	PIBLK-PD088383.D	Decachlorobiphenyl	1	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.9	99		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.9	100		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PD088377.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-167-SB01MS**											
Q1901-08MS	gamma-BHC (Lindane)	5	0	5.50	ug/L	110				30 (60)	150 (152)	
	Heptachlor	5	0	5.40	ug/L	108				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.60	ug/L	112				30 (77)	150 (143)	
	Endrin	5	0	5.50	ug/L	110				30 (76)	150 (144)	
	Methoxychlor	5	0	5.10	ug/L	102				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PD088378.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-167-SB01MSD**											
Q1901-08MSD	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		0		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.40	ug/L	108		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.50	ug/L	110		2		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.50	ug/L	110		0		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.00	ug/L	100		2		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PD088371.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167820BS	gamma-BHC (Lindane)	0.5	0.52	ug/L	104				40 (82)	140 (129)	
	Heptachlor	0.5	0.52	ug/L	104				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.53	ug/L	106				40 (81)	140 (124)	
	Endrin	0.5	0.51	ug/L	102				40 (81)	140 (128)	
	Methoxychlor	0.5	0.46	ug/L	93				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167820BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167820BL Lab File ID: PD088370.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/01/2025

Date Analyzed (1): 05/01/2025 Date Analyzed (2): 05/01/2025

Time Analyzed (1): 13:39 Time Analyzed (2): 13:39

Instrument ID (1): ECD_D Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167820BS	PB167820BS	PD088371.D	05/01/2025	05/01/2025
PB167774TB	PB167774TB	PD088372.D	05/01/2025	05/01/2025
B-167-SB01	Q1901-08	PD088376.D	05/01/2025	05/01/2025
B-167-SB01MS	Q1901-08MS	PD088377.D	05/01/2025	05/01/2025
B-167-SB01MSD	Q1901-08MSD	PD088378.D	05/01/2025	05/01/2025
B-170-SB01	Q1901-09	PD088379.D	05/01/2025	05/01/2025
B-167-SB02	Q1901-10	PD088380.D	05/01/2025	05/01/2025
B-170-SB02	Q1901-11	PD088381.D	05/01/2025	05/01/2025

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167820BL	SDG No.:	Q1901
Lab Sample ID:	PB167820BL	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088370.D	1	05/01/25 08:56	05/01/25 13:39	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		30 (43) - 150 (140)	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		30 (77) - 150 (126)	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/18/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/18/25
Client Sample ID:	PIBLK-PD088121.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PD088121.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088121.D	1		04/18/25	PD041825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.9		30 (43) - 150 (140)	115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		30 (77) - 150 (126)	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/01/25
Client Sample ID:	PIBLK-PD088368.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PD088368.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088368.D	1		05/01/25	pd050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		30 (43) - 150 (140)	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/01/25
Client Sample ID:	PIBLK-PD088383.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PD088383.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088383.D	1		05/01/25	pd050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.0		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088371.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167820BS	SDG No.:	Q1901
Lab Sample ID:	PB167820BS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088371.D	1	05/01/25 08:56	05/01/25 13:53	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.52		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.52		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0096	0.050	ug/L
72-20-8	Endrin	0.51		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.46		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.5		30 (43) - 150 (140)	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.5		30 (77) - 150 (126)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088377.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088377.D	1	05/01/25 08:56	05/01/25 15:15	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.096	0.50	ug/L
72-20-8	Endrin	5.50		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.10		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.8		30 (77) - 150 (126)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PD088378.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088378.D	1	05/01/25 08:56	05/01/25 15:28	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.096	0.50	ug/L
72-20-8	Endrin	5.50		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.00		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		30 (77) - 150 (126)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088124.D RT 075 = PD088125.D

RT 050 = PD088126.D RT 025 = PD088127.D RT 005 = PD088128.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.08	9.07	9.08	9.08	9.08	9.07	8.97	9.17
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.49	7.49	7.50	7.50	7.50	7.49	7.39	7.59
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088124.D RT 075 = PD088125.D

RT 050 = PD088126.D RT 025 = PD088127.D RT 005 = PD088128.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	8.09	8.08	8.08	8.08	8.08	8.08	7.98	8.18
Endrin	5.81	5.79	5.79	5.79	5.79	5.80	5.70	5.90
gamma-BHC (Lindane)	3.75	3.73	3.73	3.73	3.73	3.74	3.64	3.84
Heptachlor	4.10	4.09	4.09	4.09	4.09	4.09	3.99	4.19
Heptachlor epoxide	4.89	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Methoxychlor	6.77	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.90	2.88	2.88	2.88	2.88	2.89	2.79	2.99

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088124.D **CF 075 =** PD088125.D

CF 050 = PD088126.D **CF 025 =** PD088127.D **CF 005 =** PD088128.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3080820000	3141130000	3178140000	3290360000	3850090000	3308110000	9
Endrin	3128180000	3077300000	2935450000	2806460000	2965440000	2982570000	4
gamma-BHC (Lindane)	4507210000	4365130000	4155030000	3887470000	4022700000	4187510000	6
Heptachlor	4264490000	4159110000	3978190000	3781390000	4011590000	4038950000	5
Heptachlor epoxide	3670910000	3598060000	3486330000	3389810000	3724620000	3573950000	4
Methoxychlor	1461300000	1466360000	1467850000	1483290000	1618930000	1499540000	4
Tetrachloro-m-xylene	1982340000	2006790000	1938680000	1923660000	2135510000	1997400000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088124.D **CF 075 =** PD088125.D

CF 050 = PD088126.D **CF 025 =** PD088127.D **CF 005 =** PD088128.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	16767000000	17098200000	17470300000	18387600000	22674800000	18479600000	13
Endrin	16756200000	17001500000	17464500000	18215500000	21574100000	18202300000	11
gamma-BHC (Lindane)	20140800000	20226900000	20558100000	21137200000	25630400000	21538700000	11
Heptachlor	19826900000	20021500000	20522700000	21298800000	25320700000	21398100000	11
Heptachlor epoxide	17359900000	17576100000	18079700000	18879200000	22576700000	18894300000	11
Methoxychlor	8272330000	8467510000	8839240000	9290490000	10735700000	9121060000	11
Tetrachloro-m-xylene	13615300000	13685800000	14010800000	14551200000	17245000000	14621600000	10

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Fax : 908 789 8922

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_D **Date(s) Analyzed:** 04/18/2025 04/18/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.72	4.62	4.82	161995000
		2	5.24	5.14	5.34	160780000
		3	5.95	5.85	6.05	666185000
		4	6.03	5.93	6.13	797101000
		5	6.87	6.77	6.97	133051000
Toxaphene	500	1	6.24	6.14	6.34	23597900
		2	6.44	6.34	6.54	34064600
		3	7.15	7.05	7.25	65326300
		4	7.57	7.47	7.67	82045400
		5	7.93	7.83	8.03	47715200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_D **Date(s) Analyzed:** 04/18/2025 04/18/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.91	3.81	4.01	767527000
		2	4.49	4.39	4.59	783082000
		3	5.13	5.03	5.23	2396830000
		4	5.19	5.09	5.29	2031740000
		5	6.09	5.99	6.19	931551000
Toxaphene	500	1	5.48	5.38	5.58	130682000
		2	5.65	5.55	5.75	89513500
		3	6.76	6.66	6.86	417352000
		4	7.20	7.10	7.30	302911000
		5	7.33	7.23	7.43	207761000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 12:09 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 12:09 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088369.D **Time Analyzed:** 12:09

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.975	9.175	46.430	50.000	-7.1
Endrin	6.575	6.476	6.676	52.080	50.000	4.2
gamma-BHC (Lindane)	4.331	4.232	4.432	54.230	50.000	8.5
Heptachlor	4.930	4.831	5.031	53.020	50.000	6.0
Heptachlor epoxide	5.691	5.592	5.792	53.870	50.000	7.7
Methoxychlor	7.494	7.395	7.595	45.160	50.000	-9.7
Tetrachloro-m-xylene	3.551	3.452	3.652	52.750	50.000	5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088369.D **Time Analyzed:** 12:09

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.977	8.177	41.500	50.000	-17.0
Endrin	5.791	5.693	5.893	46.350	50.000	-7.3
gamma-BHC (Lindane)	3.731	3.633	3.833	48.020	50.000	-4.0
Heptachlor	4.084	3.986	4.186	46.300	50.000	-7.4
Heptachlor epoxide	4.875	4.777	4.977	48.240	50.000	-3.5
Methoxychlor	6.756	6.659	6.859	41.540	50.000	-16.9
Tetrachloro-m-xylene	2.882	2.783	2.983	48.750	50.000	-2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 17:19 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 17:19 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088384.D **Time Analyzed:** 17:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.077	8.975	9.175	47.420	50.000	-5.2
Endrin	6.577	6.476	6.676	52.460	50.000	4.9
gamma-BHC (Lindane)	4.333	4.232	4.432	53.820	50.000	7.6
Heptachlor	4.933	4.831	5.031	53.190	50.000	6.4
Heptachlor epoxide	5.694	5.592	5.792	53.690	50.000	7.4
Methoxychlor	7.496	7.395	7.595	47.380	50.000	-5.2
Tetrachloro-m-xylene	3.553	3.452	3.652	52.240	50.000	4.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088384.D **Time Analyzed:** 17:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.977	8.177	43.900	50.000	-12.2
Endrin	5.791	5.693	5.893	47.310	50.000	-5.4
gamma-BHC (Lindane)	3.731	3.633	3.833	48.110	50.000	-3.8
Heptachlor	4.085	3.986	4.186	46.890	50.000	-6.2
Heptachlor epoxide	4.875	4.777	4.977	48.060	50.000	-3.9
Methoxychlor	6.757	6.659	6.859	44.580	50.000	-10.8
Tetrachloro-m-xylene	2.882	2.783	2.983	48.420	50.000	-3.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088122.D **Date Analyzed:** 04/18/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 13:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.075	8.970	9.180	23.220	20.000	16.1
Tetrachloro-m-xylene	3.551	3.500	3.600	21.610	20.000	8.1
alpha-BHC	4.000	3.950	4.050	9.950	10.000	-0.5
beta-BHC	4.516	4.470	4.570	11.360	10.000	13.6
gamma-BHC (Lindane)	4.331	4.280	4.380	10.480	10.000	4.8
Endrin	6.576	6.510	6.650	51.530	50.000	3.1
4,4'-DDT	7.023	6.950	7.090	110.510	100.000	10.5
Methoxychlor	7.494	7.420	7.560	265.100	250.000	6.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088122.D **Date Analyzed:** 04/18/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 13:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	22.950	20.000	14.8
Tetrachloro-m-xylene	2.883	2.830	2.930	22.200	20.000	11.0
alpha-BHC	3.396	3.350	3.450	11.720	10.000	17.2
beta-BHC	4.028	3.980	4.080	12.460	10.000	24.6
gamma-BHC (Lindane)	3.732	3.680	3.780	11.580	10.000	15.8
Endrin	5.793	5.720	5.860	49.780	50.000	-0.4
4,4'-DDT	6.187	6.120	6.260	102.610	100.000	2.6
Methoxychlor	6.758	6.690	6.830	215.580	250.000	-13.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088365.D **Date Analyzed:** 05/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:55

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.970	9.170	20.730	20.000	3.7
Tetrachloro-m-xylene	3.550	3.500	3.600	21.750	20.000	8.8
alpha-BHC	3.999	3.950	4.050	9.880	10.000	-1.2
beta-BHC	4.515	4.460	4.570	11.390	10.000	13.9
gamma-BHC (Lindane)	4.330	4.280	4.380	10.360	10.000	3.6
Endrin	6.575	6.500	6.650	53.330	50.000	6.7
4,4'-DDT	7.021	6.950	7.090	95.920	100.000	-4.1
Methoxychlor	7.493	7.420	7.560	223.310	250.000	-10.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088365.D **Date Analyzed:** 05/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:55

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.074	7.970	8.170	18.740	20.000	-6.3
Tetrachloro-m-xylene	2.881	2.830	2.930	21.090	20.000	5.5
alpha-BHC	3.394	3.340	3.440	10.870	10.000	8.7
beta-BHC	4.026	3.980	4.080	11.230	10.000	12.3
gamma-BHC (Lindane)	3.730	3.680	3.780	10.780	10.000	7.8
Endrin	5.790	5.720	5.860	46.960	50.000	-6.1
4,4'-DDT	6.185	6.110	6.260	83.920	100.000	-16.1
Methoxychlor	6.755	6.680	6.830	168.520	250.000	-32.6

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/18/2025 04/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/18/2025	13:15	PD088121.D	9.07	3.55
PEM	PEM	04/18/2025	13:29	PD088122.D	9.08	3.55
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	9.08	3.55
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	9.08	3.55
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	9.07	3.55
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	9.08	3.55
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	9.08	3.55
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	9.08	3.55
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	9.07	3.55
PEM	PEM	05/01/2025	09:55	PD088365.D	9.07	3.55
I.BLK	I.BLK	05/01/2025	11:56	PD088368.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/01/2025	12:09	PD088369.D	9.07	3.55
PB167820BL	PB167820BL	05/01/2025	13:39	PD088370.D	9.09	3.56
PB167820BS	PB167820BS	05/01/2025	13:53	PD088371.D	9.08	3.55
PB167774TB	PB167774TB	05/01/2025	14:06	PD088372.D	9.07	3.55
B-167-SB01	Q1901-08	05/01/2025	15:01	PD088376.D	9.08	3.55
B-167-SB01MS	Q1901-08MS	05/01/2025	15:15	PD088377.D	9.07	3.55
B-167-SB01MSD	Q1901-08MSD	05/01/2025	15:28	PD088378.D	9.07	3.55
B-170-SB01	Q1901-09	05/01/2025	15:42	PD088379.D	9.07	3.55
B-167-SB02	Q1901-10	05/01/2025	15:56	PD088380.D	9.07	3.55
B-170-SB02	Q1901-11	05/01/2025	16:10	PD088381.D	9.07	3.55
I.BLK	I.BLK	05/01/2025	16:37	PD088383.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/01/2025	17:19	PD088384.D	9.08	3.55

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/18/2025 04/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/18/2025	13:15	PD088121.D	8.08	2.88
PEM	PEM	04/18/2025	13:29	PD088122.D	8.08	2.88
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	8.08	2.88
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	8.09	2.90
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	8.08	2.88
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	8.08	2.88
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	8.08	2.88
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	8.08	2.88
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	8.08	2.88
PEM	PEM	05/01/2025	09:55	PD088365.D	8.07	2.88
I.BLK	I.BLK	05/01/2025	11:56	PD088368.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/01/2025	12:09	PD088369.D	8.08	2.88
PB167820BL	PB167820BL	05/01/2025	13:39	PD088370.D	8.08	2.88
PB167820BS	PB167820BS	05/01/2025	13:53	PD088371.D	8.08	2.88
PB167774TB	PB167774TB	05/01/2025	14:06	PD088372.D	8.07	2.88
B-167-SB01	Q1901-08	05/01/2025	15:01	PD088376.D	8.08	2.88
B-167-SB01MS	Q1901-08MS	05/01/2025	15:15	PD088377.D	8.08	2.88
B-167-SB01MSD	Q1901-08MSD	05/01/2025	15:28	PD088378.D	8.08	2.88
B-170-SB01	Q1901-09	05/01/2025	15:42	PD088379.D	8.08	2.88
B-167-SB02	Q1901-10	05/01/2025	15:56	PD088380.D	8.08	2.88
B-170-SB02	Q1901-11	05/01/2025	16:10	PD088381.D	8.08	2.88
I.BLK	I.BLK	05/01/2025	16:37	PD088383.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/01/2025	17:19	PD088384.D	8.08	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Lab Sample ID: Q1901-08MS **Date(s) Analyzed:** 05/01/2025 05/01/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin	1	6.58	6.53	6.63	5.50	13.6
	2	5.79	5.74	5.84	4.80	
Methoxychlor	1	7.49	7.44	7.54	5.10	10.3
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	11.5
	2	3.73	3.68	3.78	4.90	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.09	4.04	4.14	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	5.60	13.3
	2	4.88	4.83	4.93	4.90	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Lab Sample ID: Q1901-08MSD **Date(s) Analyzed:** 05/01/2025 05/01/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin	1	6.58	6.53	6.63	5.50	11.5
	2	5.79	5.74	5.84	4.90	
Methoxychlor	1	7.49	7.44	7.54	5.00	8.3
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	11.5
	2	3.73	3.68	3.78	4.90	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.09	4.04	4.14	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	5.50	11.5
	2	4.88	4.83	4.93	4.90	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167820BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Lab Sample ID: PB167820BS **Date(s) Analyzed:** 05/01/2025 05/01/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	0.46	8.3
	2	6.76	6.71	6.81	0.43	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.52	8.6
	2	3.73	3.68	3.78	0.48	
Heptachlor	1	4.93	4.88	4.98	0.52	11.3
	2	4.08	4.03	4.13	0.46	
Heptachlor epoxide	1	5.69	5.64	5.74	0.53	9.9
	2	4.87	4.82	4.92	0.48	
Endrin	1	6.58	6.53	6.63	0.51	11.2
	2	5.79	5.74	5.84	0.46	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088372.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 14:06
Operator : AR\AJ
Sample : PB167774TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167774TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.550	2.881	36831889	275.8E6	18.440	18.865
28)	SA Decachlor...	9.073	8.074	63249202	317.9E6	19.119	17.201
	Target Compounds						

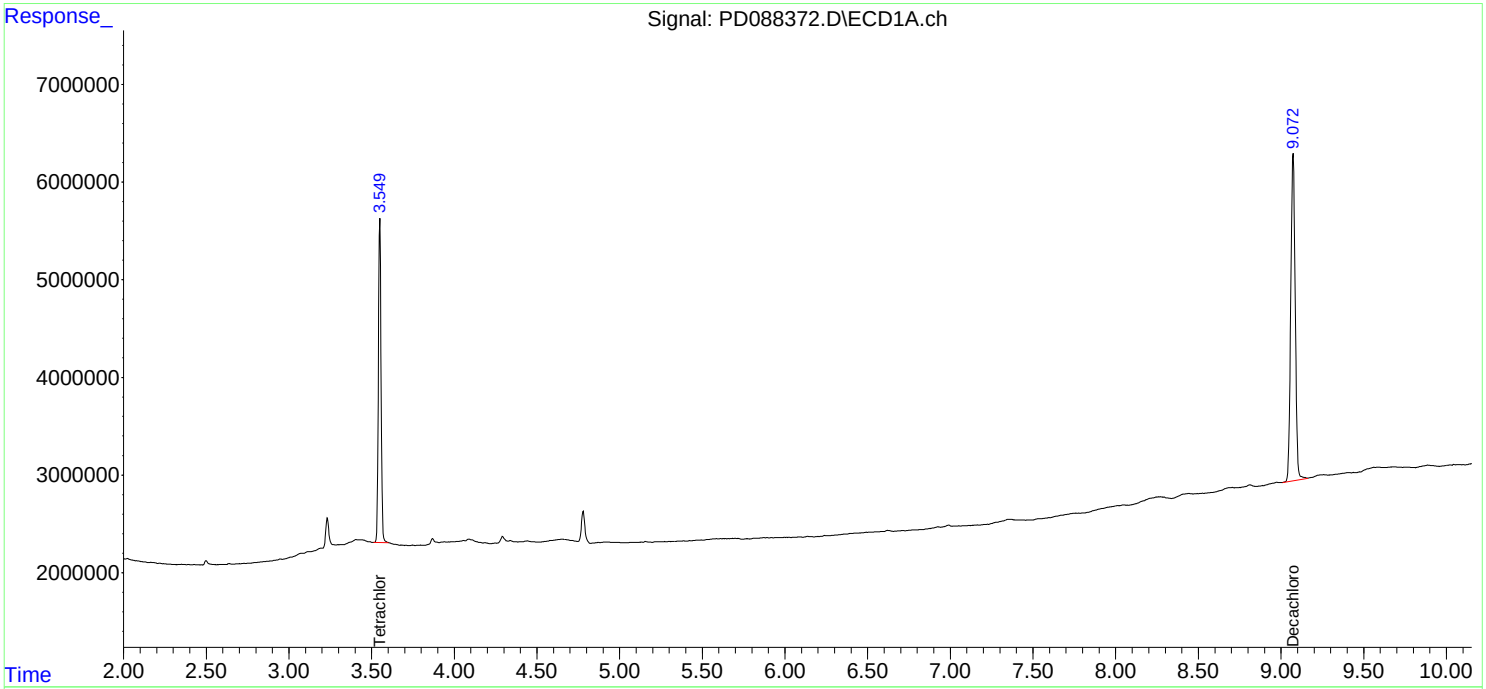
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

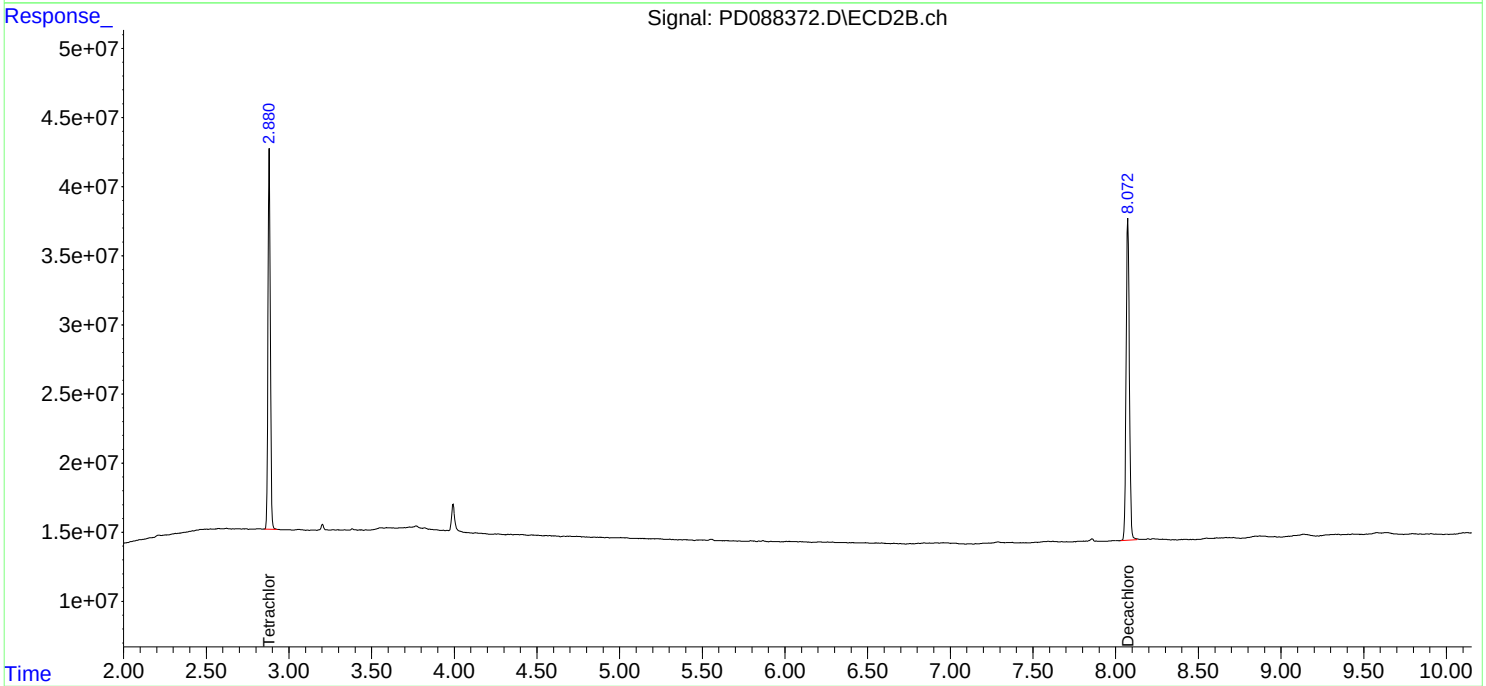
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088372.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 14:06
Operator : AR\AJ
Sample : PB167774TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

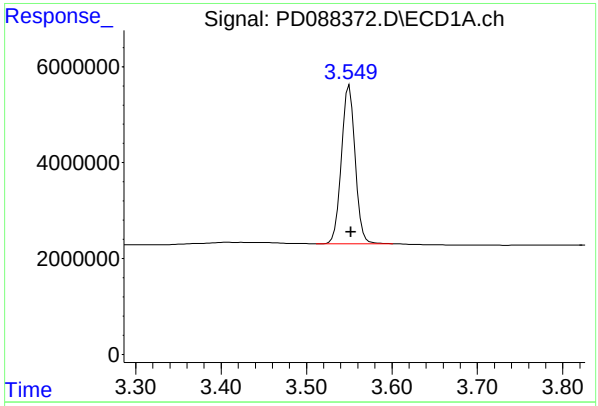
Instrument :
ECD_D
ClientSampleId :
PB167774TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



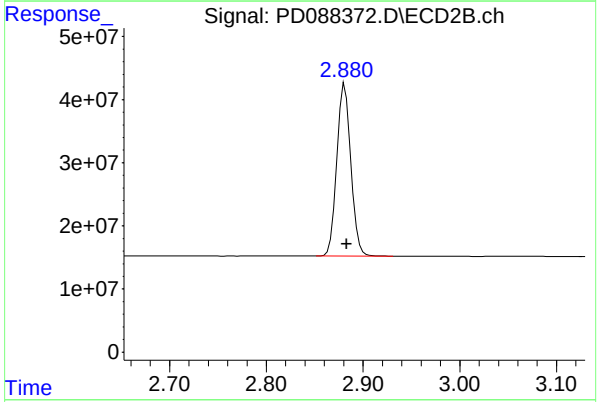




#1 Tetrachloro-m-xylene

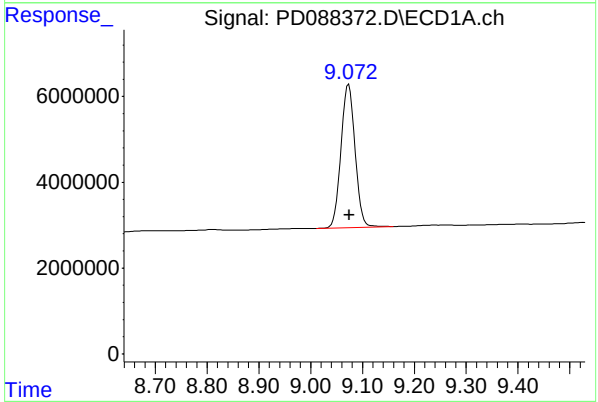
R.T.: 3.550 min
Delta R.T.: -0.002 min
Response: 36831889
Conc: 18.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167774TB



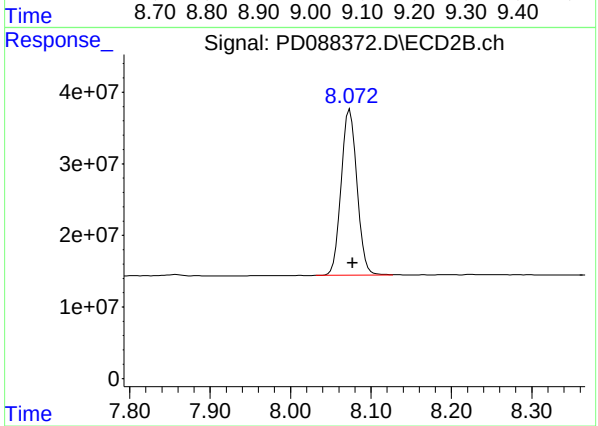
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 275830853
Conc: 18.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.002 min
Response: 63249202
Conc: 19.12 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 317876577
Conc: 17.20 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088376.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:01
Operator : AR\AJ
Sample : Q1901-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	38920336	285.9E6	19.486	19.551
28)	SA Decachlor...	9.075	8.076	68461731	341.7E6	20.695	18.492
	Target Compounds						

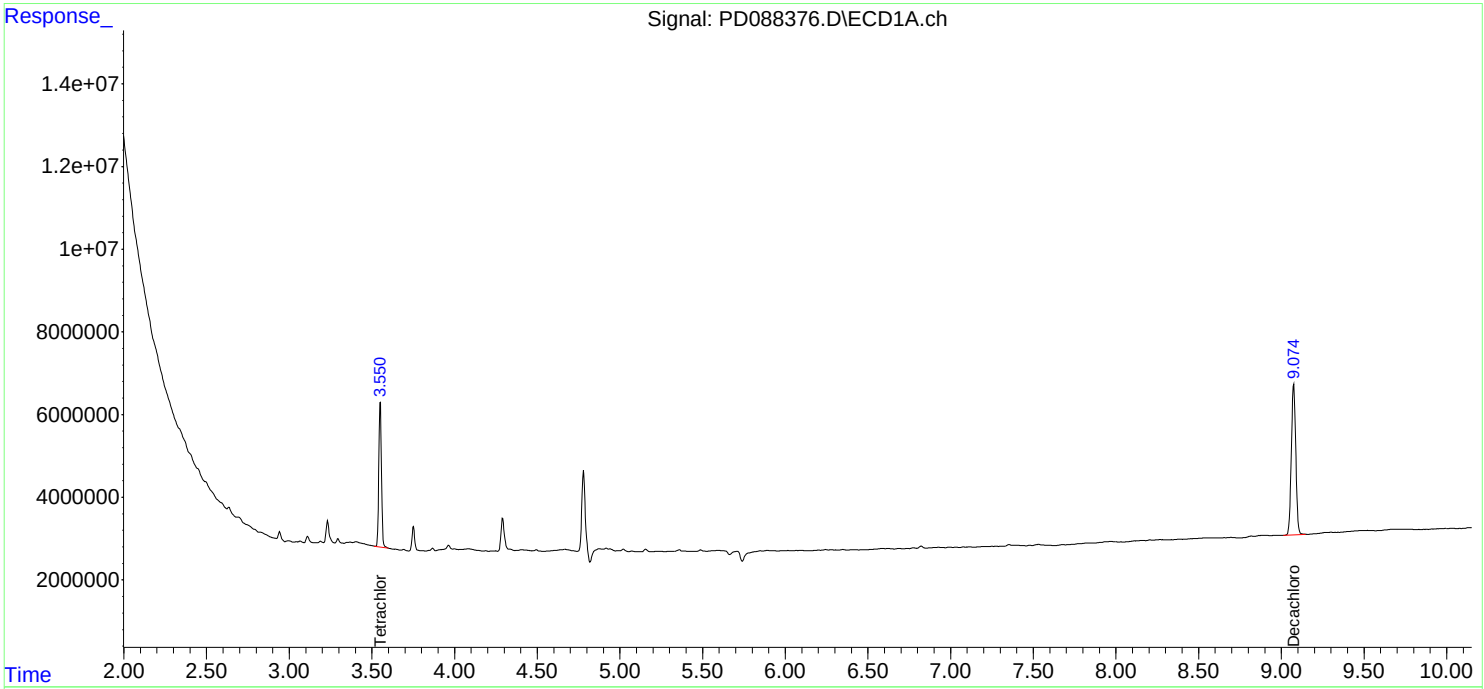
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

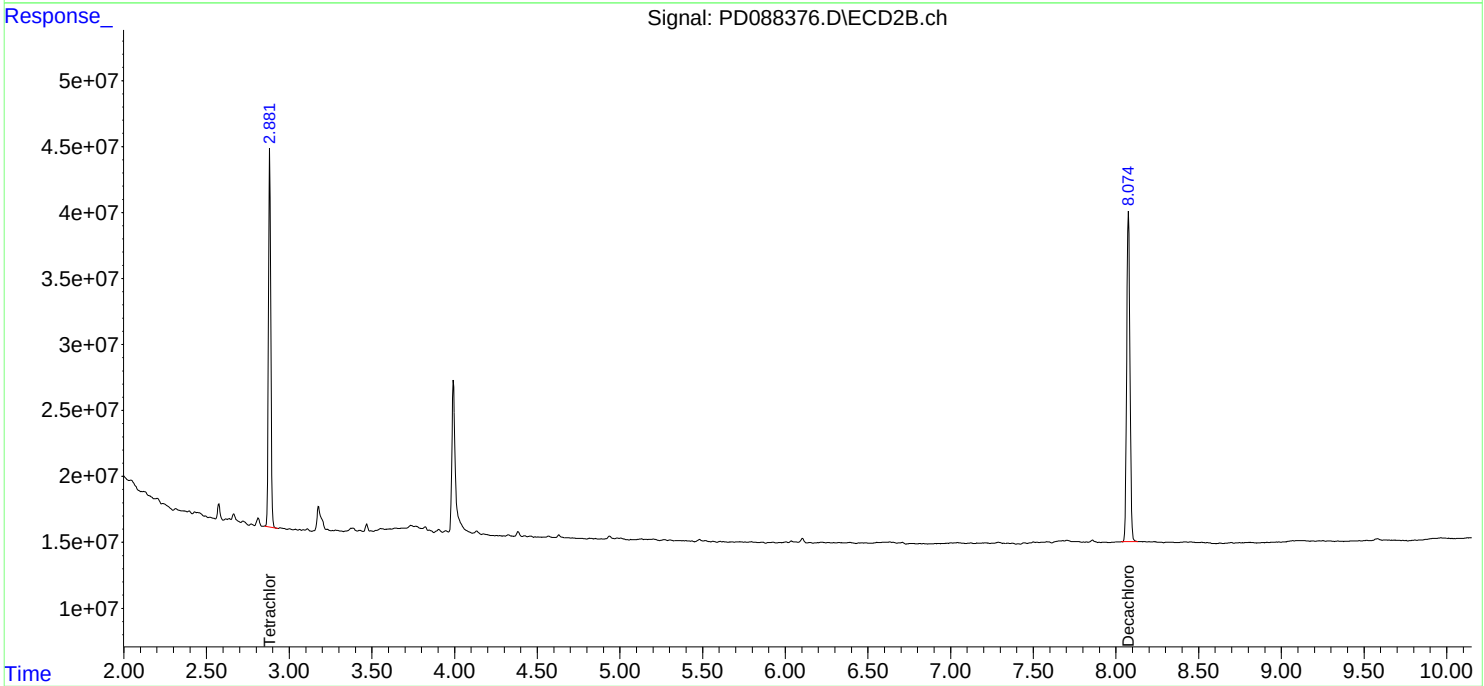
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088376.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:01
Operator : AR\AJ
Sample : Q1901-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

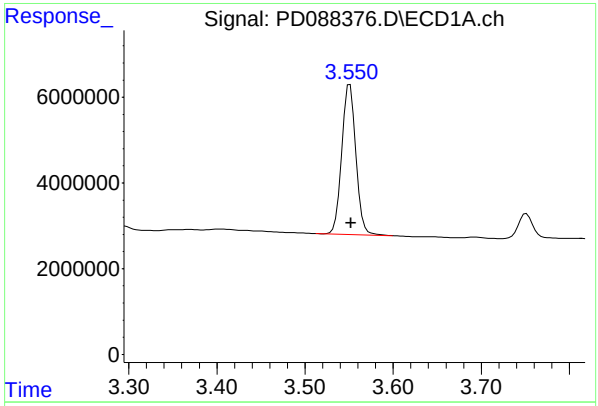
Instrument :
ECD_D
ClientSampleId :
B-167-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



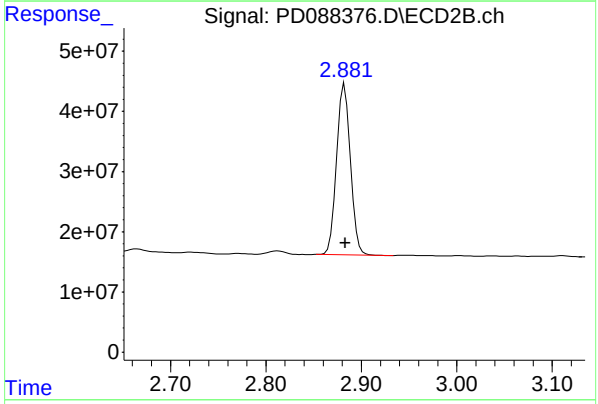




#1 Tetrachloro-m-xylene

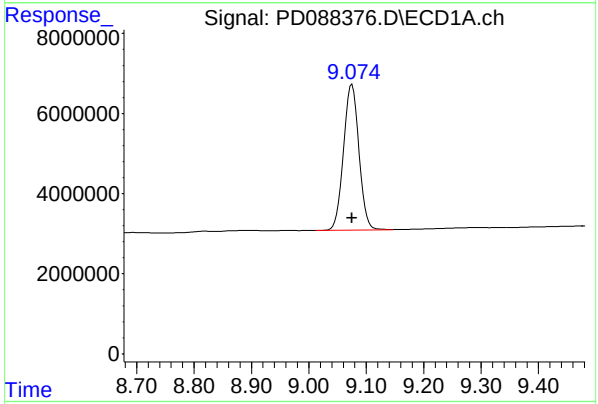
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 38920336
Conc: 19.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-167-SB01



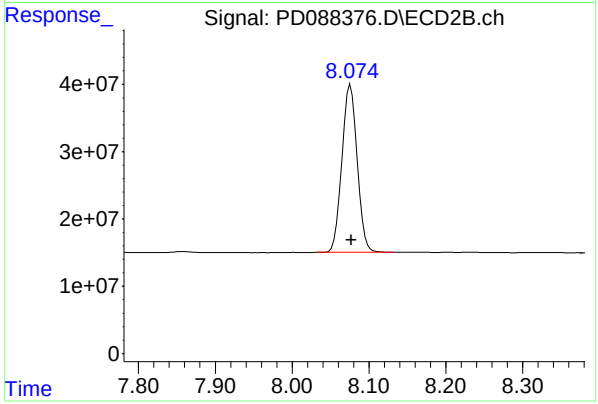
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 285868038
Conc: 19.55 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 68461731
Conc: 20.70 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: -0.001 min
Response: 341722367
Conc: 18.49 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:42
Operator : AR\AJ
Sample : Q1901-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-170-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	37826834	278.7E6	18.938	19.063
28)	SA Decachlor...	9.074	8.075	65897934	335.1E6	19.920	18.131
	Target Compounds						

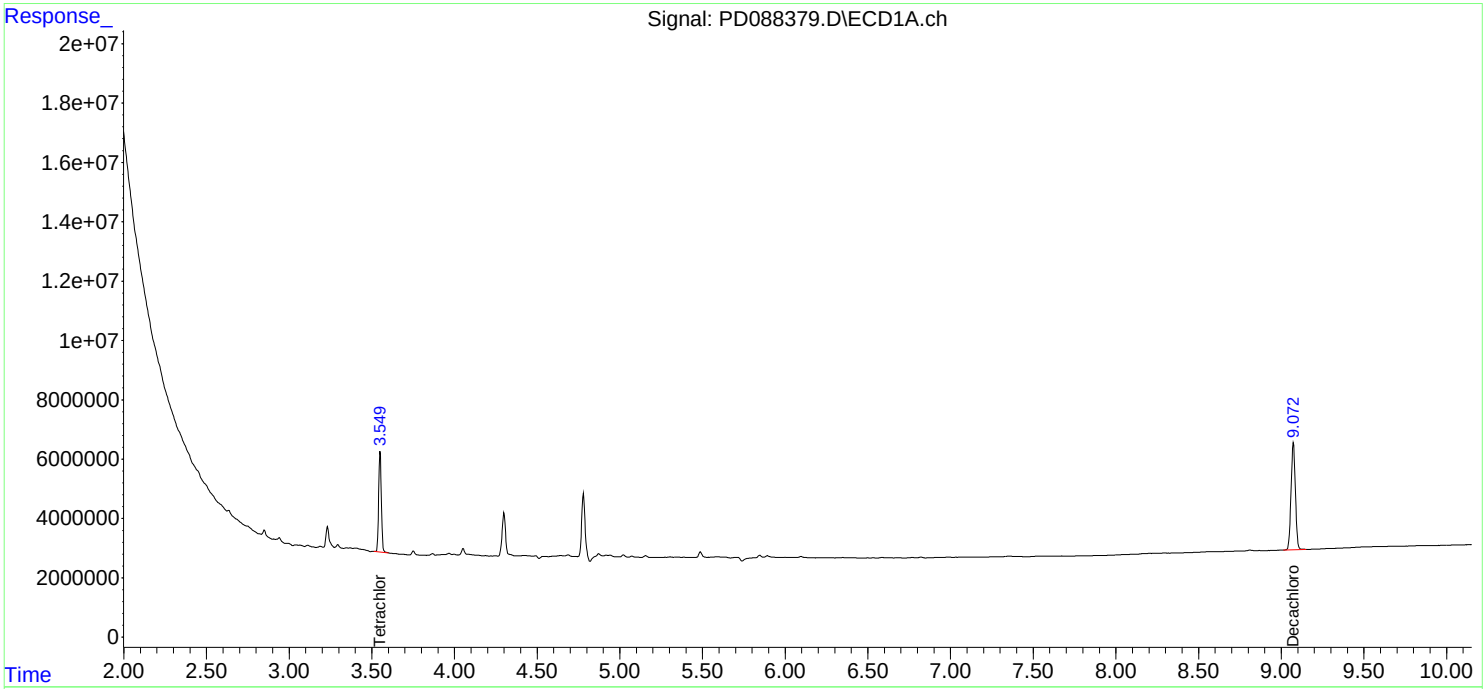
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

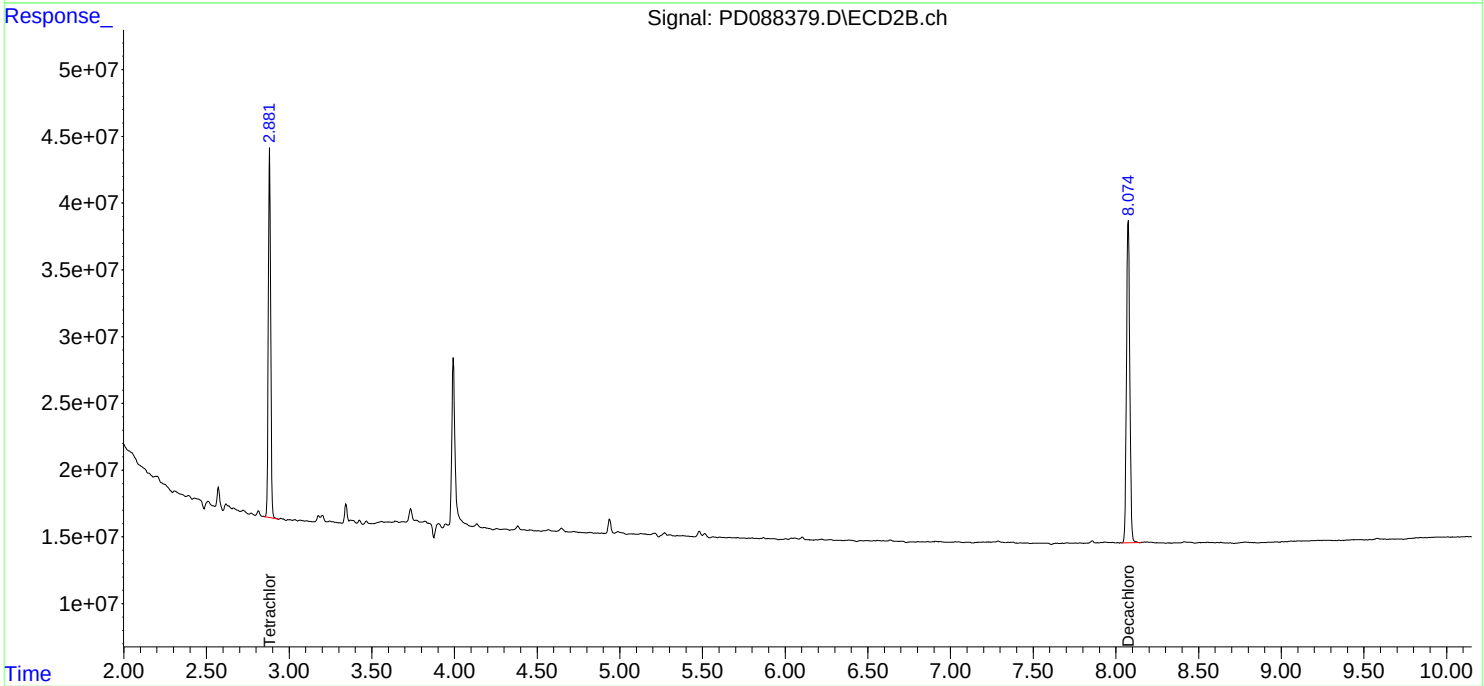
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:42
Operator : AR\AJ
Sample : Q1901-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

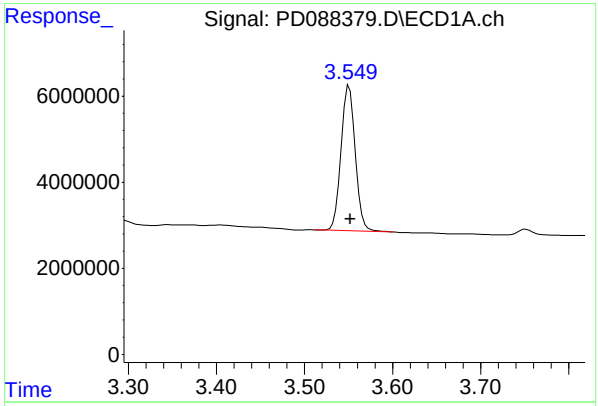
Instrument :
ECD_D
ClientSampleId :
B-170-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



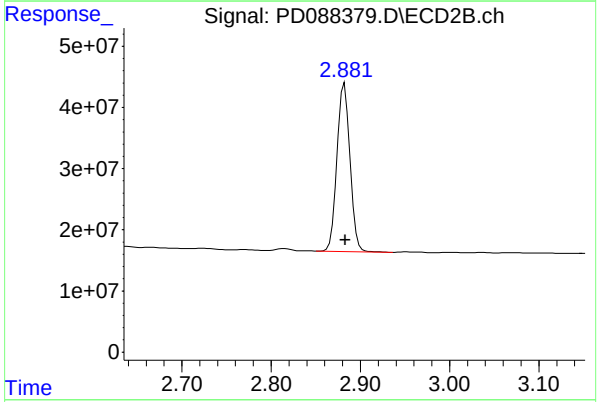




#1 Tetrachloro-m-xylene

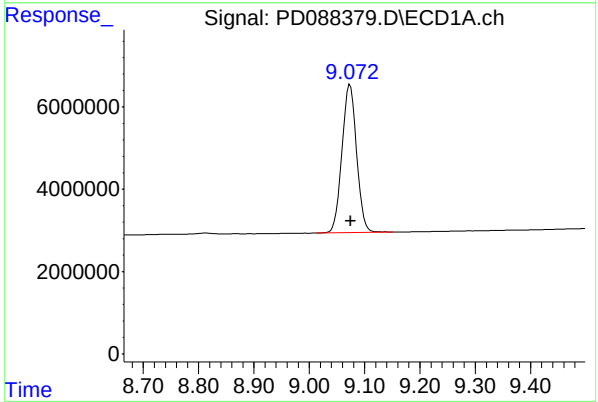
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 37826834
Conc: 18.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-170-SB01



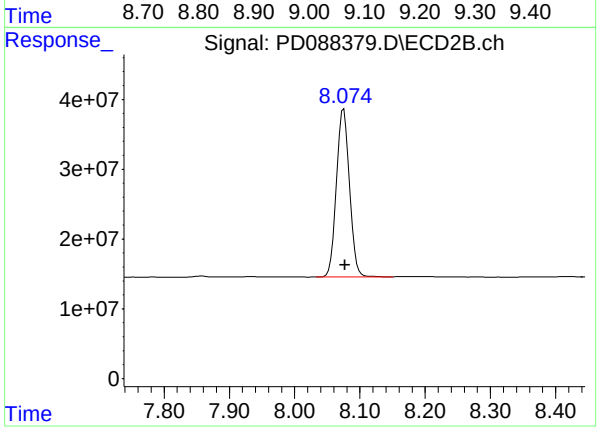
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 278728559
Conc: 19.06 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 65897934
Conc: 19.92 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 335062220
Conc: 18.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:56
Operator : AR\AJ
Sample : Q1901-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.883	36913185	262.7E6	18.481	17.966
28)	SA Decachlor...	9.073	8.075	63730197	321.6E6	19.265	17.403
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

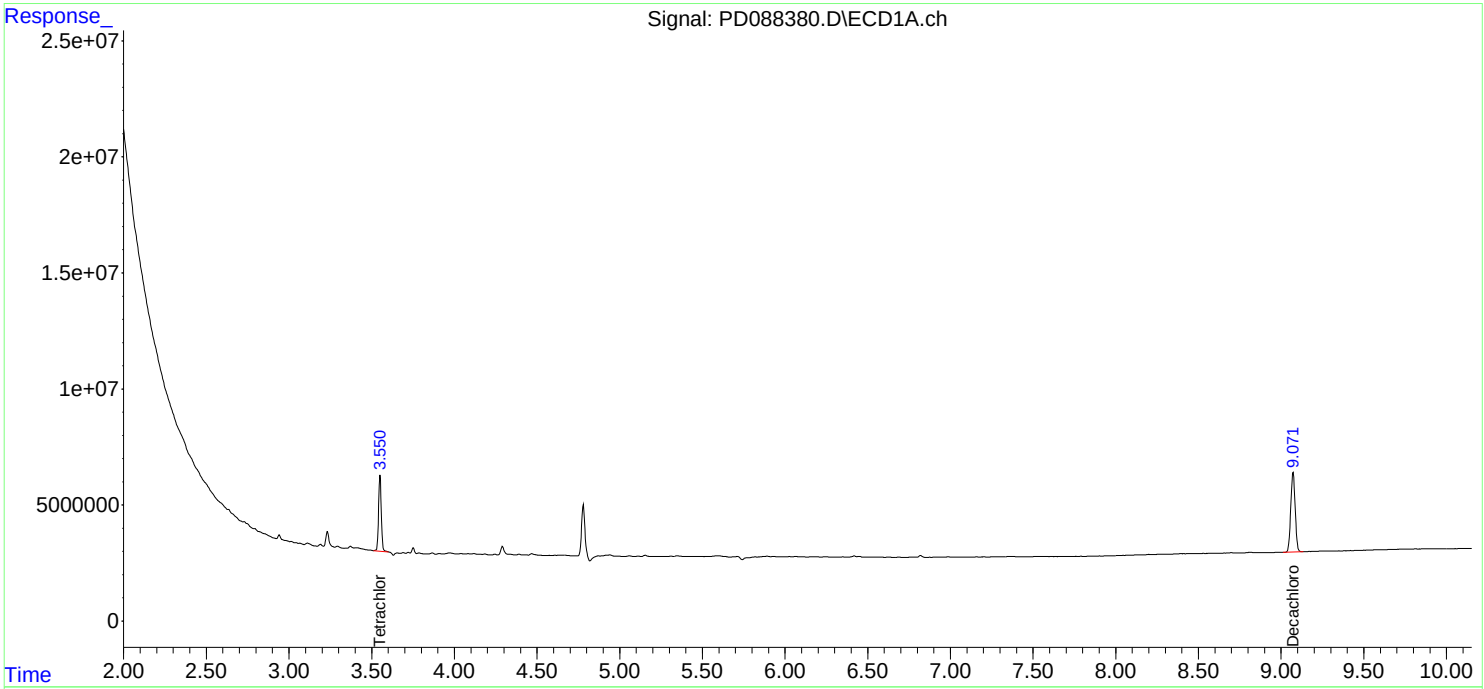
Sample Results: **PD088380.D**

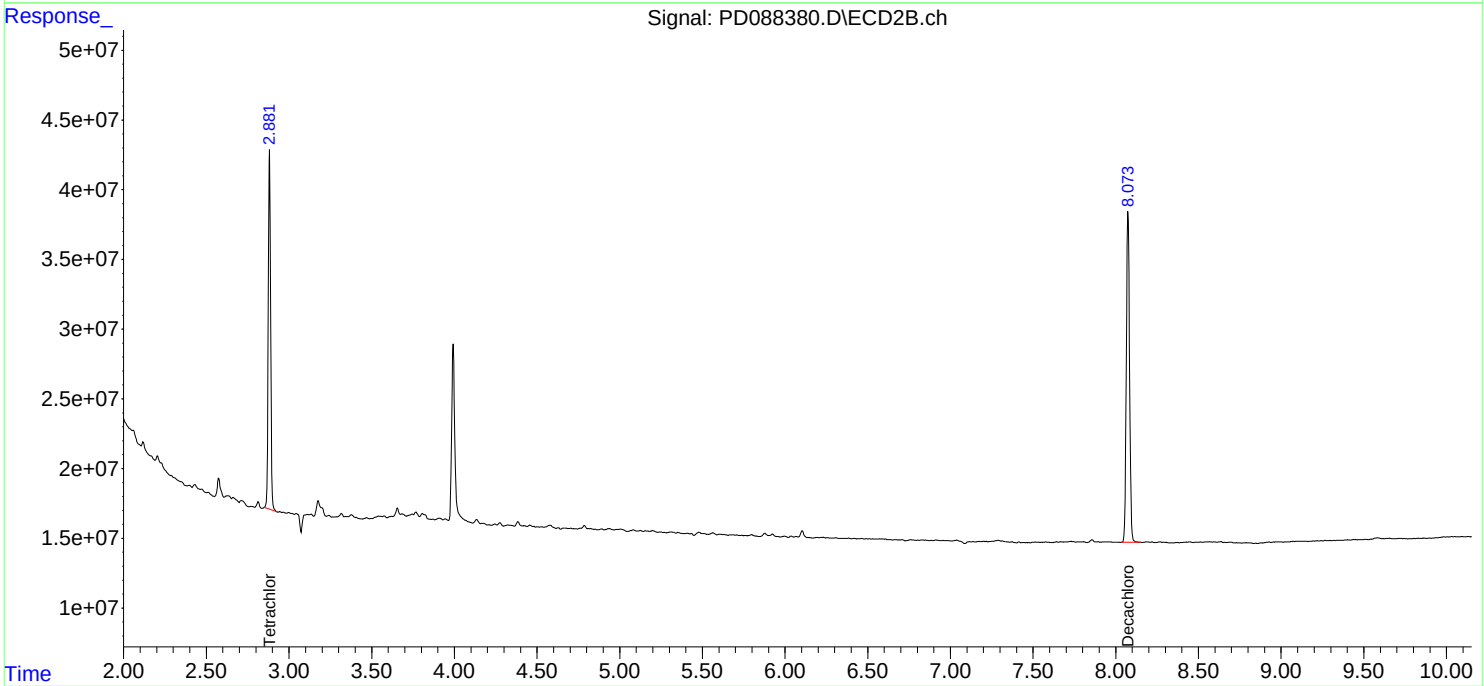
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:56
Operator : AR\AJ
Sample : Q1901-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

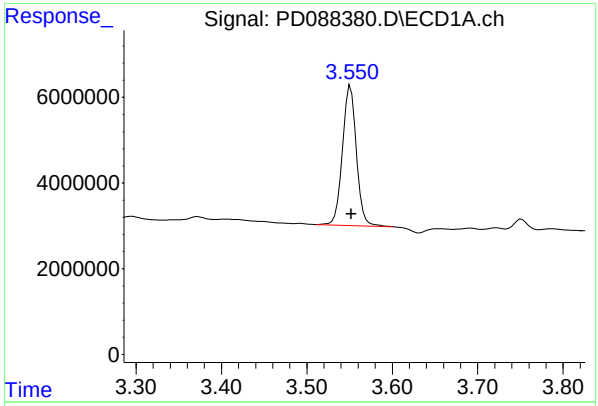
Instrument :
ECD_D
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



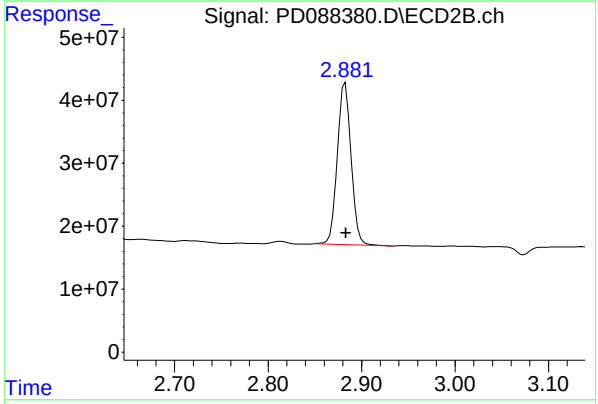




#1 Tetrachloro-m-xylene

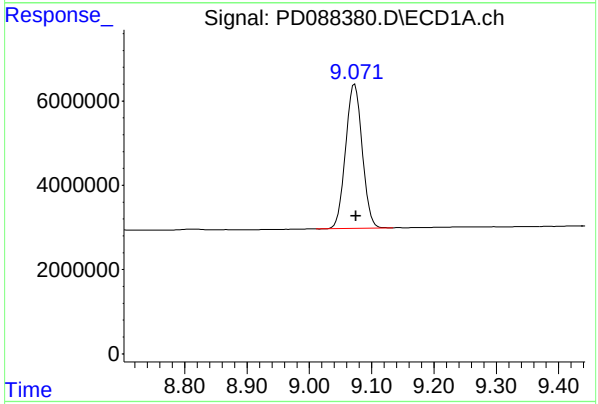
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 36913185
Conc: 18.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-167-SB02



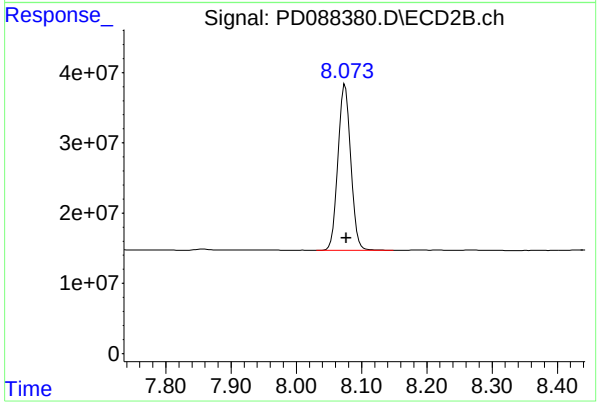
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 262693661
Conc: 17.97 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.002 min
Response: 63730197
Conc: 19.26 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 321607992
Conc: 17.40 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 16:10
Operator : AR\AJ
Sample : Q1901-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	36221576	261.2E6	18.134	17.861
28)	SA Decachlor...	9.074	8.075	58572360	299.6E6	17.706	16.214
	Target Compounds						

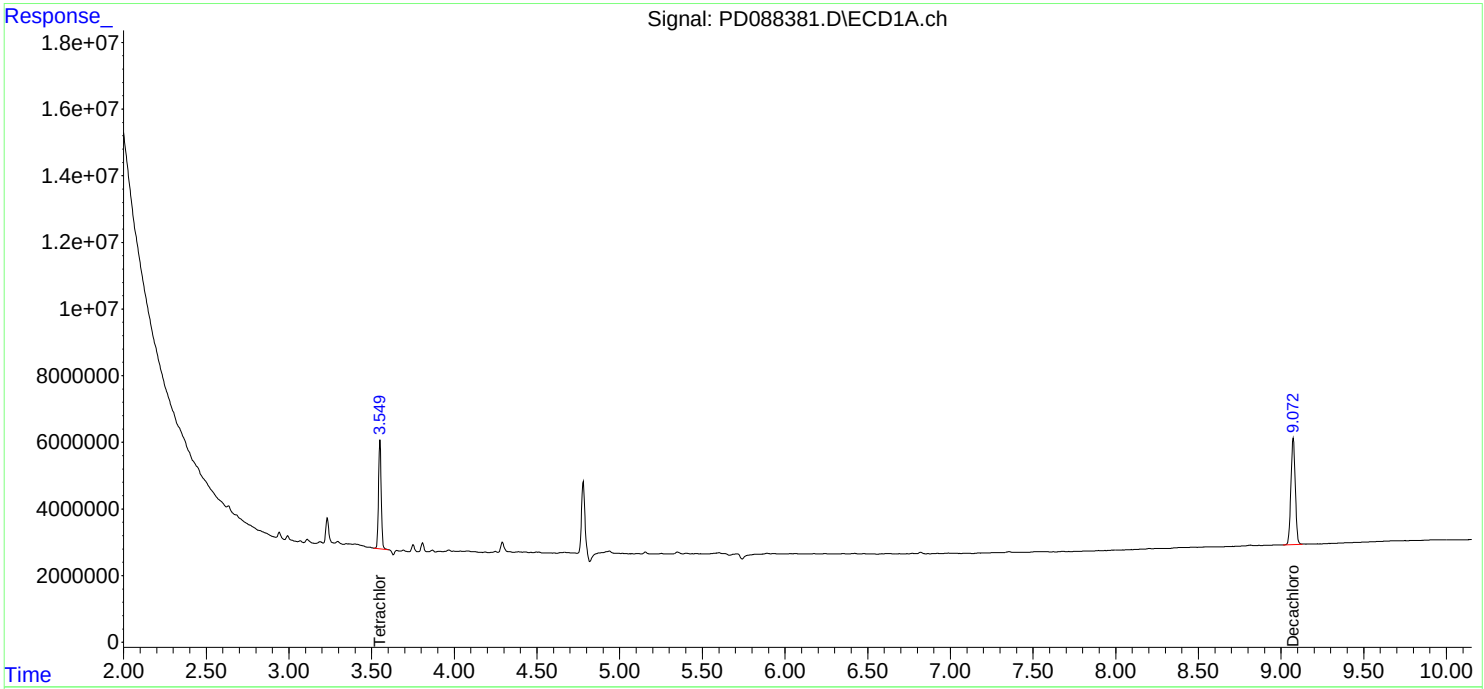
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

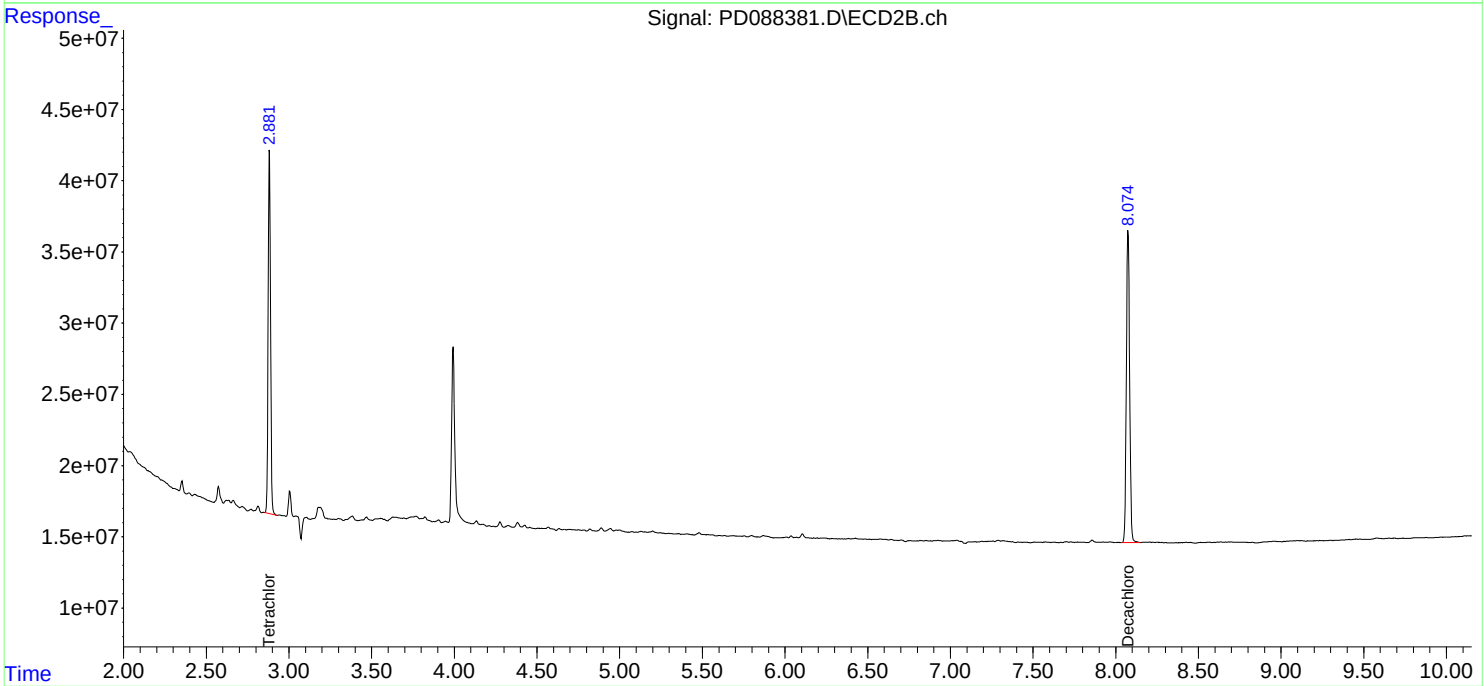
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 16:10
Operator : AR\AJ
Sample : Q1901-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

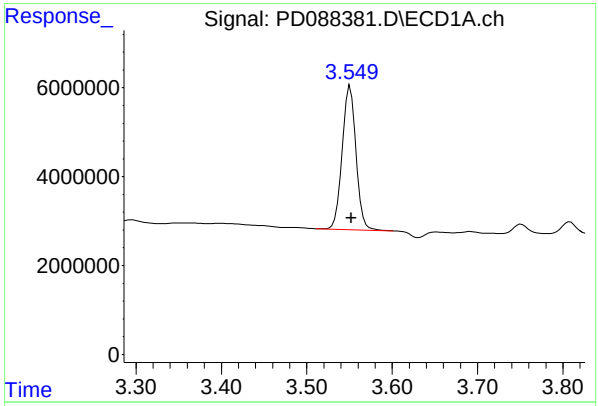
Instrument :
ECD_D
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



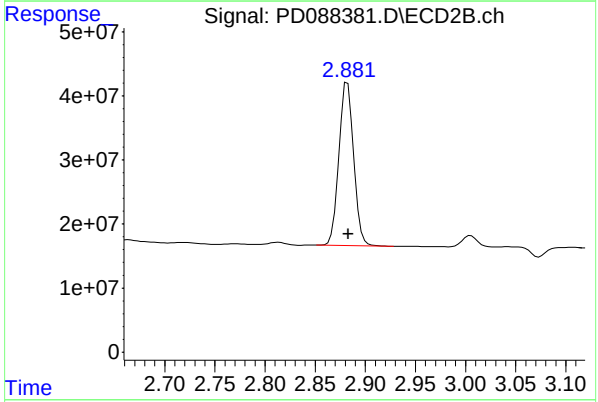




#1 Tetrachloro-m-xylene

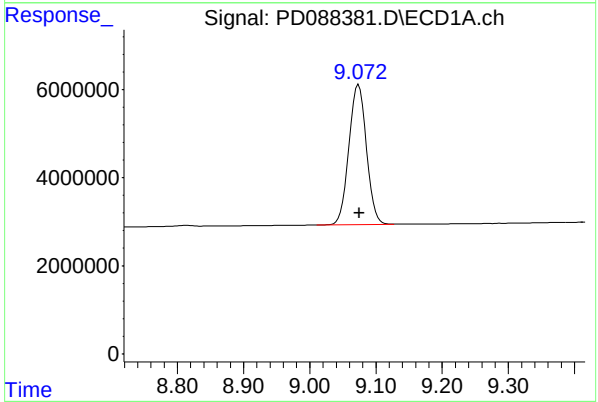
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 36221576
Conc: 18.13 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-170-SB02



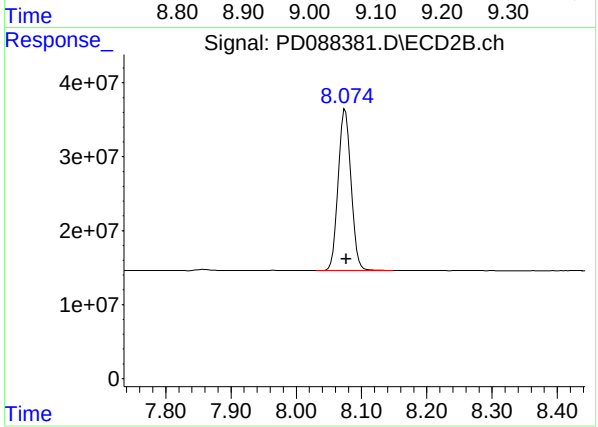
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 261153881
Conc: 17.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 58572360
Conc: 17.71 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 299625668
Conc: 16.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088370.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 13:39
Operator : AR\AJ
Sample : PB167820BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167820BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.558	2.881	35908305	270.0E6	17.978	18.464
28)	SA Decachlor...	9.085	8.077	61588544	310.0E6	18.617	16.773
	Target Compounds						

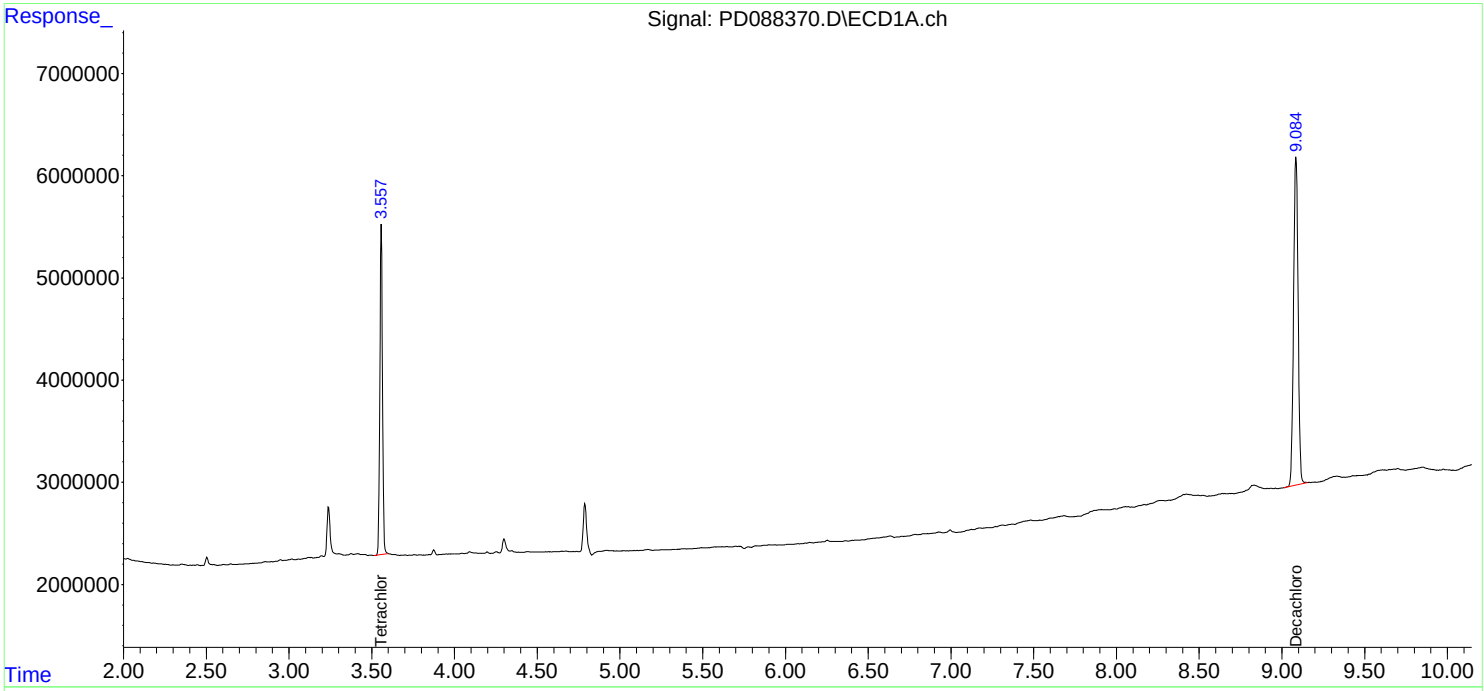
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

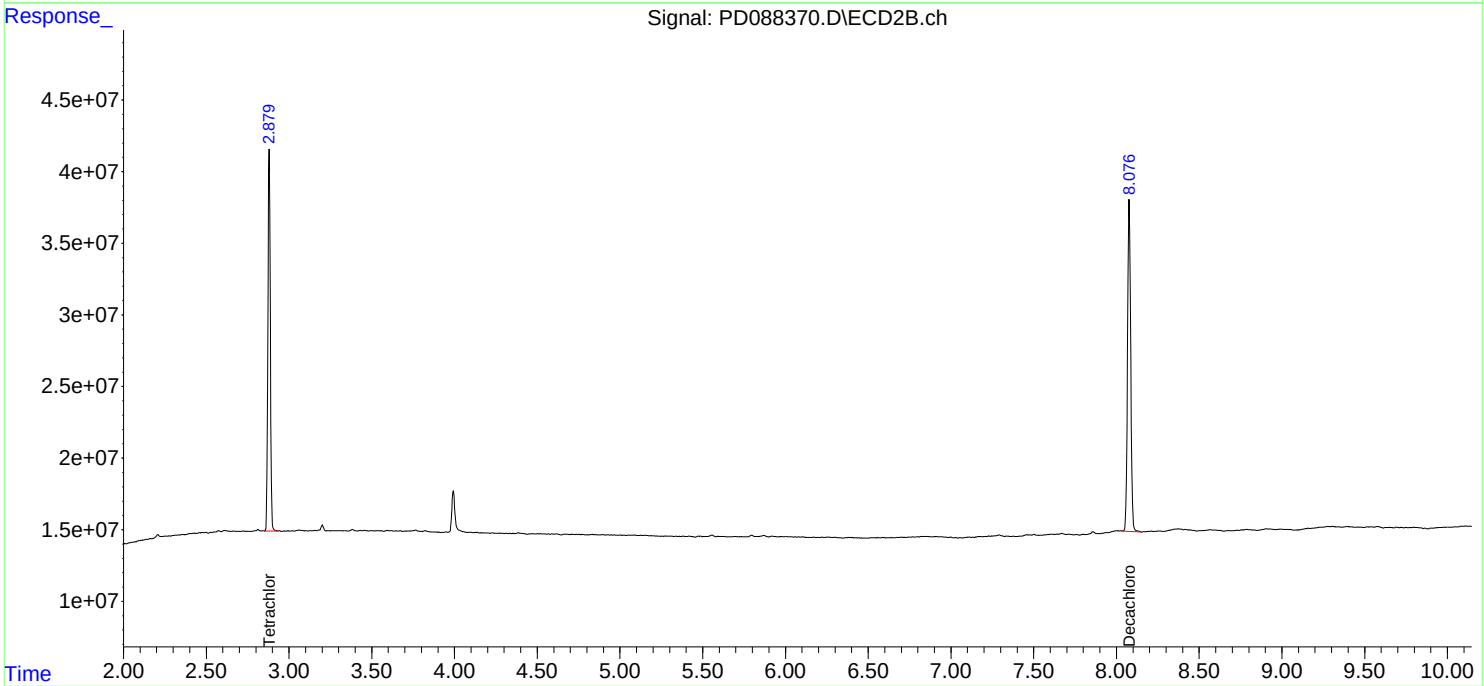
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088370.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 13:39
Operator : AR\AJ
Sample : PB167820BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

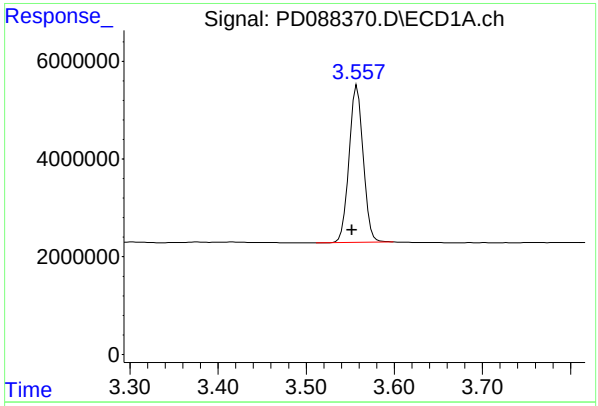
Instrument :
ECD_D
ClientSampleId :
PB167820BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



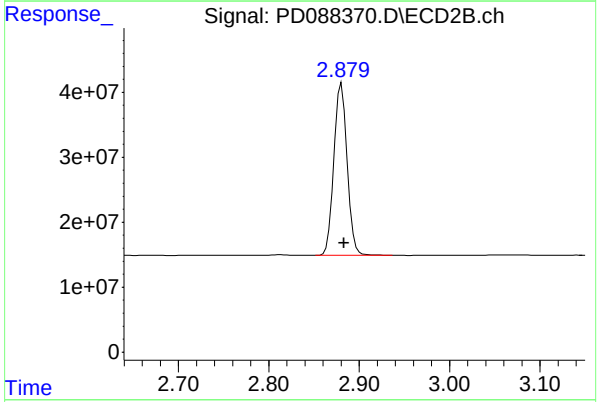




#1 Tetrachloro-m-xylene

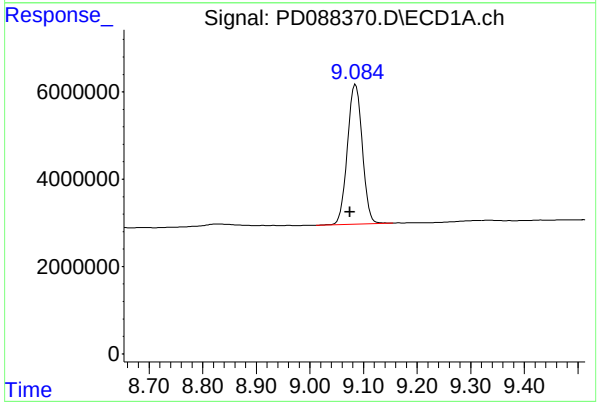
R.T.: 3.558 min
Delta R.T.: 0.006 min
Response: 35908305
Conc: 17.98 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167820BL



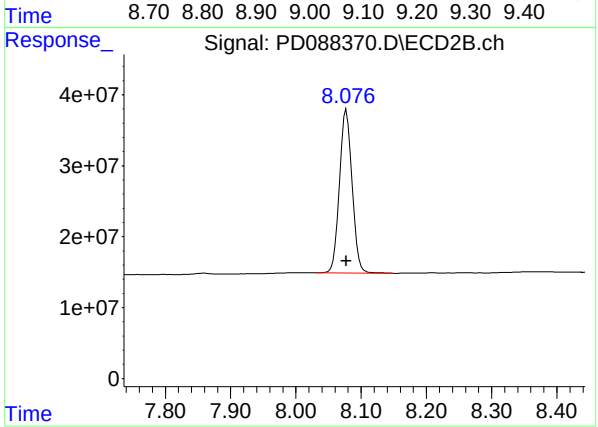
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 269968842
Conc: 18.46 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.085 min
Delta R.T.: 0.010 min
Response: 61588544
Conc: 18.62 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 309963841
Conc: 16.77 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088371.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 13:53
Operator : AR\AJ
Sample : PB167820BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167820BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.550	2.881	39930635	300.2E6	19.991	20.532
28)	SA	Decachlor...	9.075	8.075	67725971	345.4E6	20.473	18.691
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	225.0E6	1102.5E6	52.184	48.223
3)	MA	gamma-BHC...	4.331	3.730	217.2E6	1024.5E6	51.873	47.567
4)	MA	Heptachlor	4.931	4.084	210.0E6	993.9E6	51.998	46.449
5)	MB	Aldrin	5.273	4.370	209.9E6	1002.9E6	53.154	48.208
6)	B	beta-BHC	4.516	4.026	83660804	455.7E6	51.535	49.238
7)	B	delta-BHC	4.765	4.263	225.9E6	1026.1E6	54.769	48.261
8)	B	Heptachlo...	5.692	4.874	189.7E6	908.4E6	53.068	48.078
9)	A	Endosulfan I	6.076	5.248	179.9E6	866.3E6	53.271	48.094
10)	B	gamma-Chl...	5.948	5.127	191.7E6	978.5E6	52.935	48.211
11)	B	alpha-Chl...	6.028	5.191	190.8E6	940.2E6	52.864	47.963
12)	B	4,4'-DDE	6.196	5.377	171.9E6	941.9E6	52.127	47.827
13)	MA	Dieldrin	6.348	5.514	193.4E6	958.8E6	54.187	48.102
14)	MA	Endrin	6.576	5.790	152.2E6	829.9E6	51.027	45.595
15)	B	Endosulfa...	6.788	6.082	162.3E6	830.9E6	51.905	47.420
16)	A	4,4'-DDD	6.706	5.931	137.3E6	807.3E6	54.586	49.265
17)	MA	4,4'-DDT	7.022	6.185	137.1E6	755.9E6	49.352	44.424
18)	B	Endrin al...	6.916	6.260	124.1E6	638.6E6	53.785	48.013
19)	B	Endosulfa...	7.151	6.483	150.8E6	796.3E6	52.439	46.477
20)	A	Methoxychlor	7.494	6.756	69710493	390.2E6	46.488	42.783
21)	B	Endrin ke...	7.631	6.992	163.4E6	881.6E6	52.946	47.133
22)		Mirex	8.115	7.187	116.8E6	661.6E6	49.734	44.642

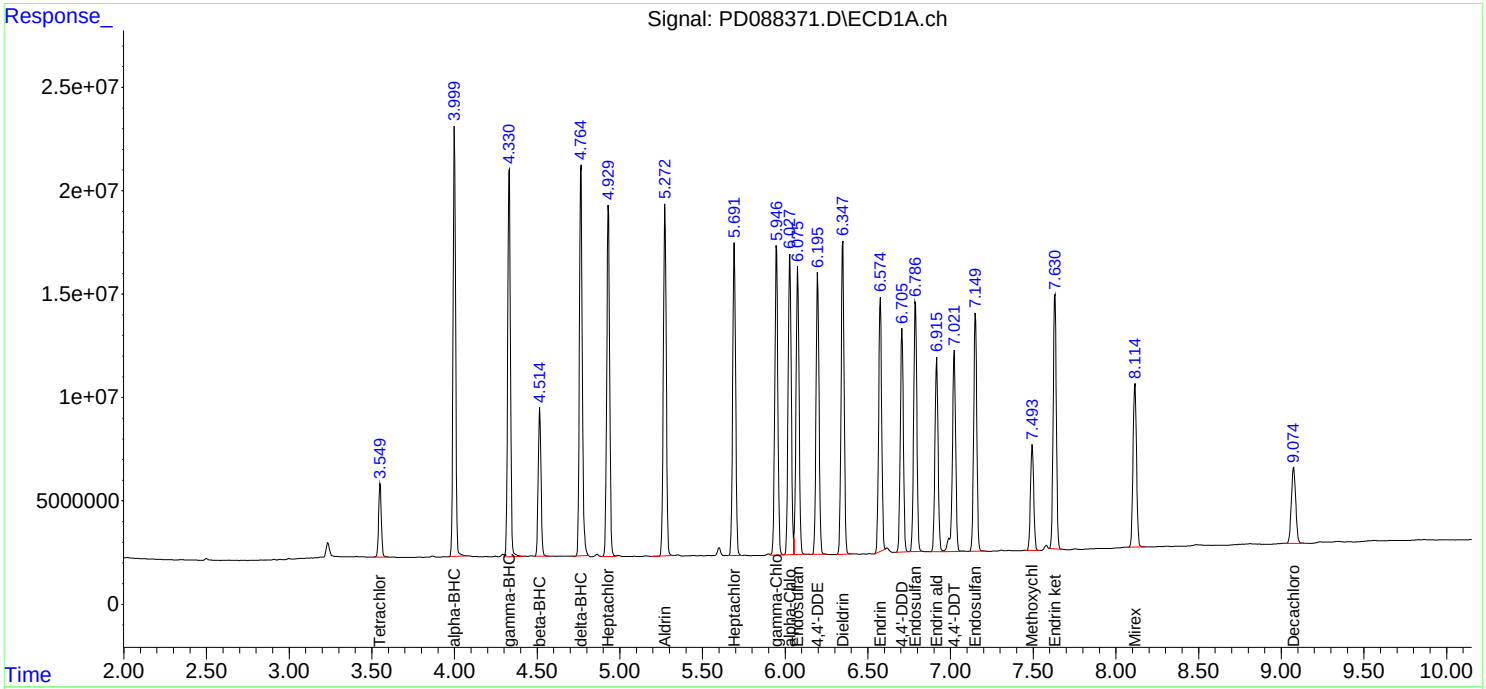
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

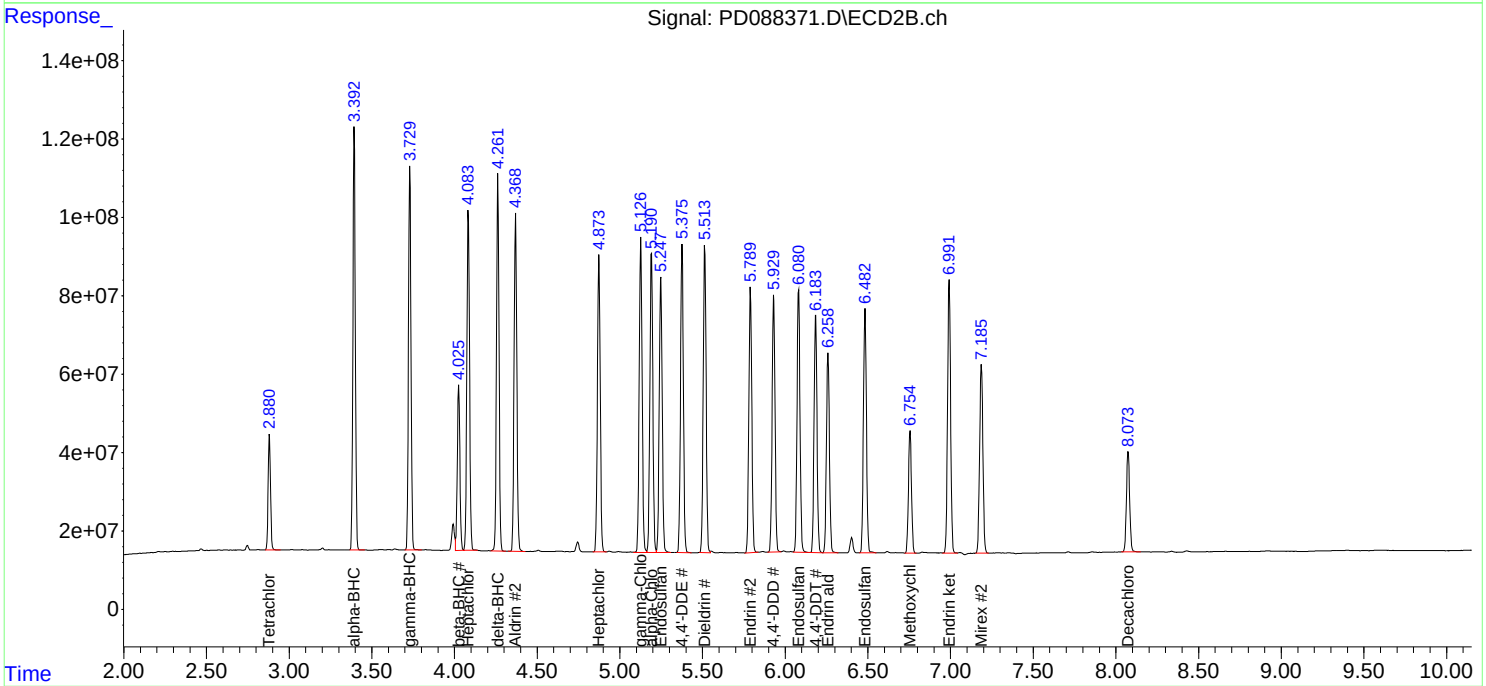
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088371.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 13:53
Operator : AR\AJ
Sample : PB167820BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167820BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088377.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:15
Operator : AR\AJ
Sample : Q1901-08MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/02/2025
Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.551	2.882	36861410	275.2E6	18.455	18.819
28)	SA	Decachlor...	9.073	8.075	68809273	350.8E6	20.800	18.982
		Target Compounds						
2)	A	alpha-BHC	4.000	3.395	235.8E6	1126.2E6	54.674	49.263
3)	MA	gamma-BHC...	4.331	3.731	232.4E6	1056.7E6	55.491	49.060
4)	MA	Heptachlor	4.930	4.085	217.9E6	1014.4E6	53.951	47.407
5)	MB	Aldrin	5.271	4.370	215.8E6	1006.6E6	54.637	48.387
6)	B	beta-BHC	4.515	4.027	87031480	474.2E6	53.611	51.240
7)	B	delta-BHC	4.763	4.264	254.2E6	1062.3E6	61.633m	49.963
8)	B	Heptachlo...	5.691	4.875	198.5E6	930.3E6	55.538	49.239
9)	A	Endosulfan I	6.075	5.249	189.2E6	886.2E6	56.020	49.201
10)	B	gamma-Chl...	5.946	5.128	202.0E6	998.5E6	55.779	49.198
11)	B	alpha-Chl...	6.027	5.192	200.5E6	961.6E6	55.553	49.054
12)	B	4,4'-DDE	6.196	5.377	180.1E6	963.7E6	54.597	48.935
13)	MA	Dieldrin	6.347	5.515	202.3E6	981.3E6	56.695	49.229
14)	MA	Endrin	6.575	5.791	165.3E6	881.8E6	55.424	48.443
15)	B	Endosulfa...	6.786	6.082	170.8E6	862.0E6	54.646	49.197
16)	A	4,4'-DDD	6.705	5.931	144.9E6	830.1E6	57.621	50.658
17)	MA	4,4'-DDT	7.022	6.185	146.7E6	789.4E6	52.831	46.391
18)	B	Endrin al...	6.915	6.260	128.7E6	653.1E6	55.767	49.098
19)	B	Endosulfa...	7.149	6.484	160.3E6	829.6E6	55.736	48.419
20)	A	Methoxychlor	7.493	6.756	75839303	419.5E6	50.575	45.993
21)	B	Endrin ke...	7.630	6.993	171.9E6	903.8E6	55.689	48.320
22)		Mirex	8.114	7.187	123.2E6	682.4E6	52.456	46.045

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

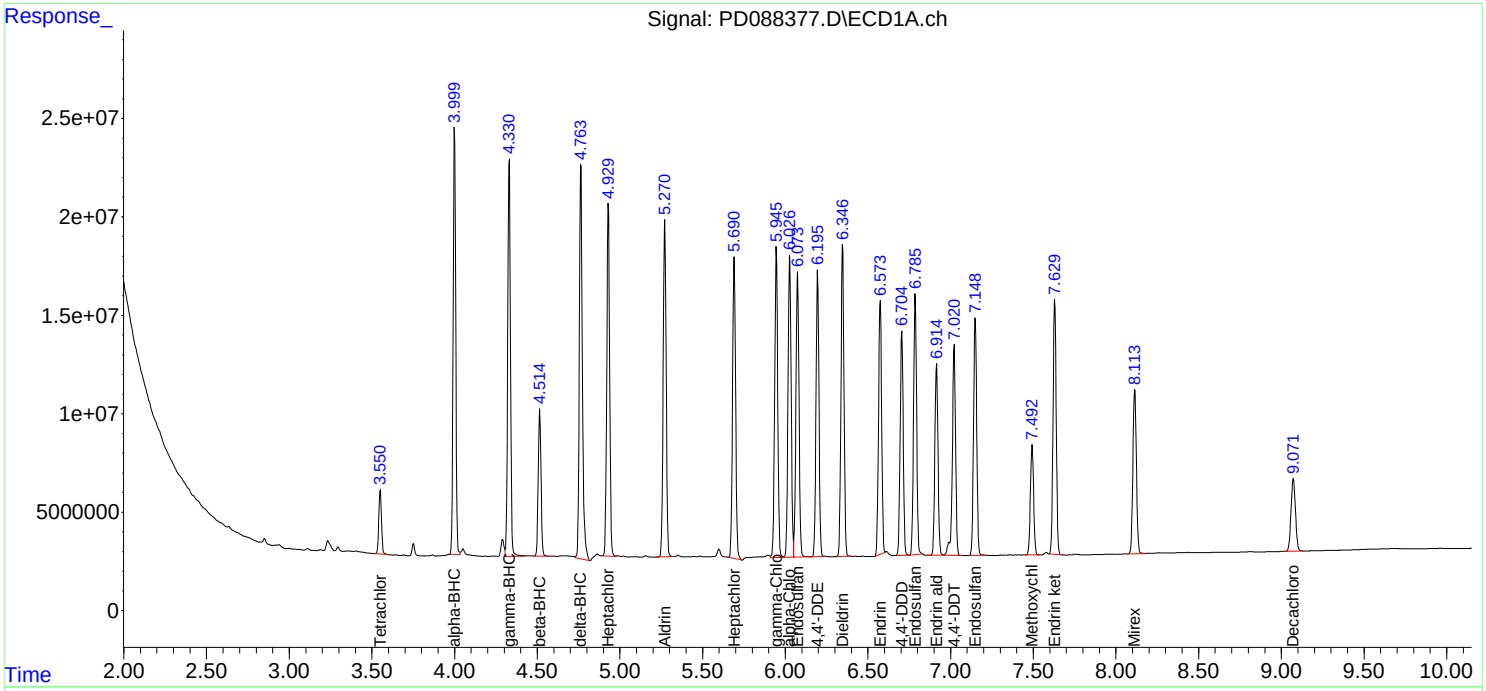
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088377.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:15
Operator : AR\AJ
Sample : Q1901-08MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

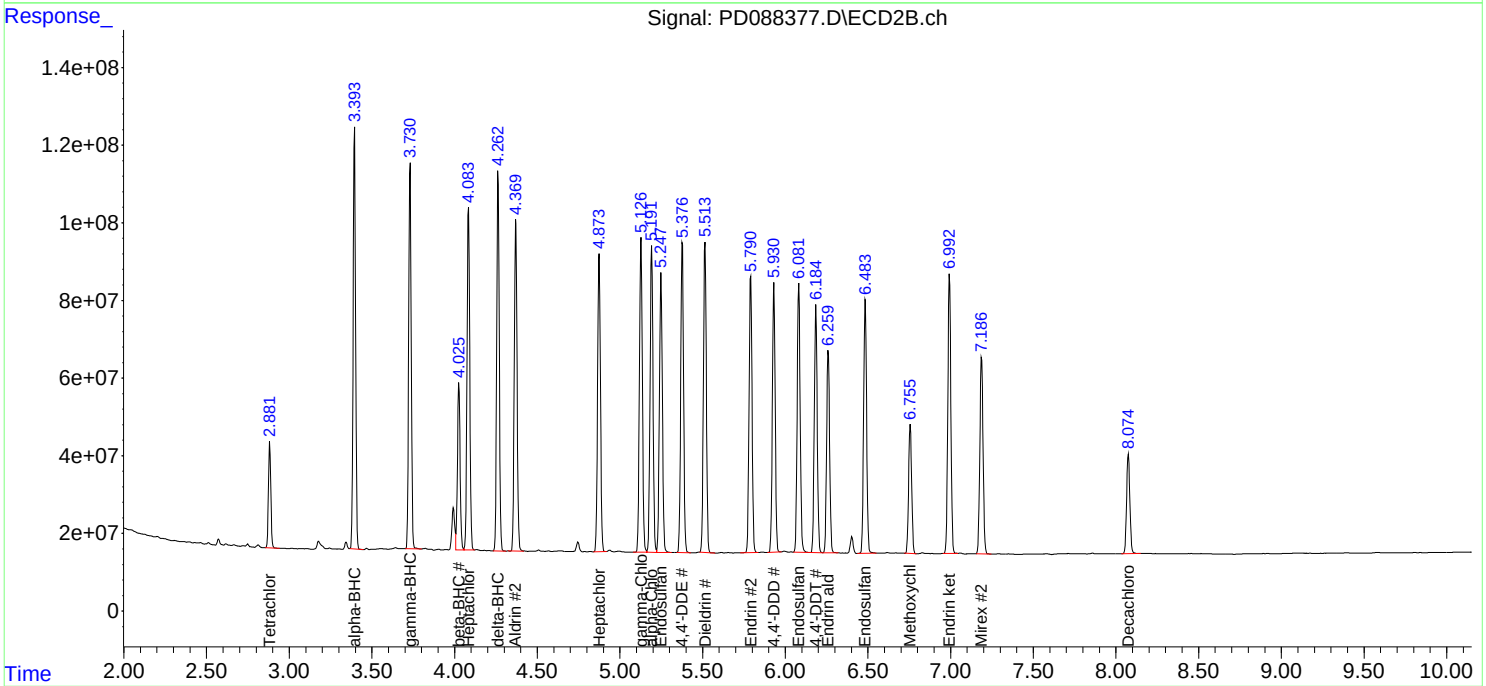
Instrument :
ECD_D
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/02/2025
Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088378.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:28
Operator : AR\AJ
Sample : Q1901-08MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/02/2025
Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.551	2.882	36653010	276.3E6	18.350	18.894
28)	SA	Decachlor...	9.074	8.075	68849811	350.7E6	20.812	18.979
		Target Compounds						
2)	A	alpha-BHC	4.000	3.395	235.0E6	1131.9E6	54.489	49.509
3)	MA	gamma-BHC...	4.331	3.731	231.7E6	1058.7E6	55.341	49.152
4)	MA	Heptachlor	4.930	4.085	217.3E6	1013.1E6	53.810	47.344
5)	MB	Aldrin	5.272	4.371	215.5E6	1009.1E6	54.569	48.507
6)	B	beta-BHC	4.516	4.027	86867239	472.8E6	53.510	51.089
7)	B	delta-BHC	4.763	4.263	252.8E6	1061.4E6	61.292m	49.922
8)	B	Heptachlo...	5.692	4.875	197.9E6	929.5E6	55.376	49.196
9)	A	Endosulfan I	6.075	5.249	188.6E6	887.4E6	55.851	49.264
10)	B	gamma-Chl...	5.947	5.127	201.3E6	999.2E6	55.578	49.231
11)	B	alpha-Chl...	6.028	5.192	199.7E6	962.1E6	55.328	49.079
12)	B	4,4'-DDE	6.196	5.378	179.8E6	966.8E6	54.527	49.092
13)	MA	Dieldrin	6.347	5.515	202.1E6	983.2E6	56.622	49.325
14)	MA	Endrin	6.575	5.791	164.9E6	885.9E6	55.274	48.670
15)	B	Endosulfa...	6.787	6.082	170.3E6	867.2E6	54.489	49.494
16)	A	4,4'-DDD	6.705	5.932	144.6E6	832.4E6	57.492	50.799
17)	MA	4,4'-DDT	7.022	6.186	145.9E6	790.7E6	52.524	46.469
18)	B	Endrin al...	6.915	6.260	129.0E6	656.5E6	55.889	49.360
19)	B	Endosulfa...	7.150	6.484	160.3E6	833.1E6	55.756	48.625
20)	A	Methoxychlor	7.494	6.756	75400976	420.1E6	50.283	46.062
21)	B	Endrin ke...	7.631	6.993	171.7E6	911.1E6	55.616	48.714
22)		Mirex	8.114	7.188	122.8E6	686.0E6	52.306	46.286

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

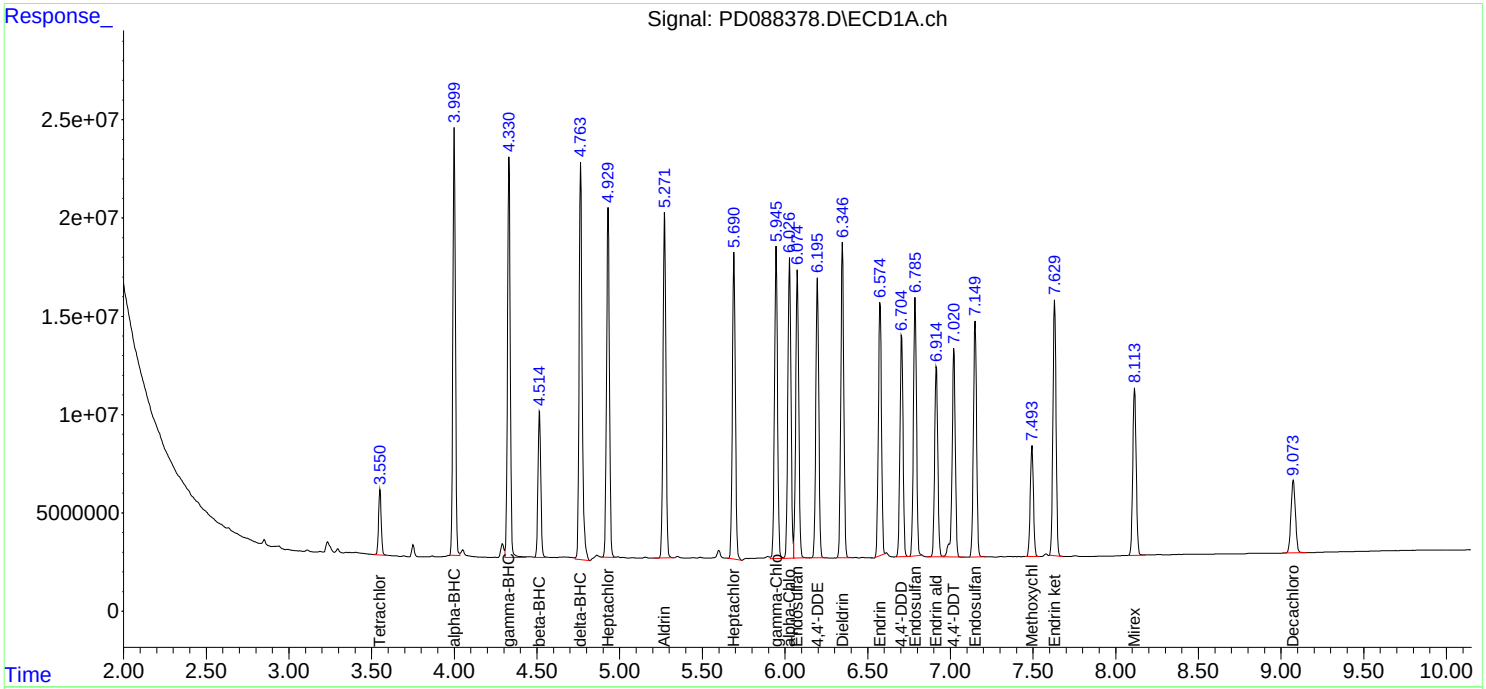
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088378.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:28
Operator : AR\AJ
Sample : Q1901-08MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

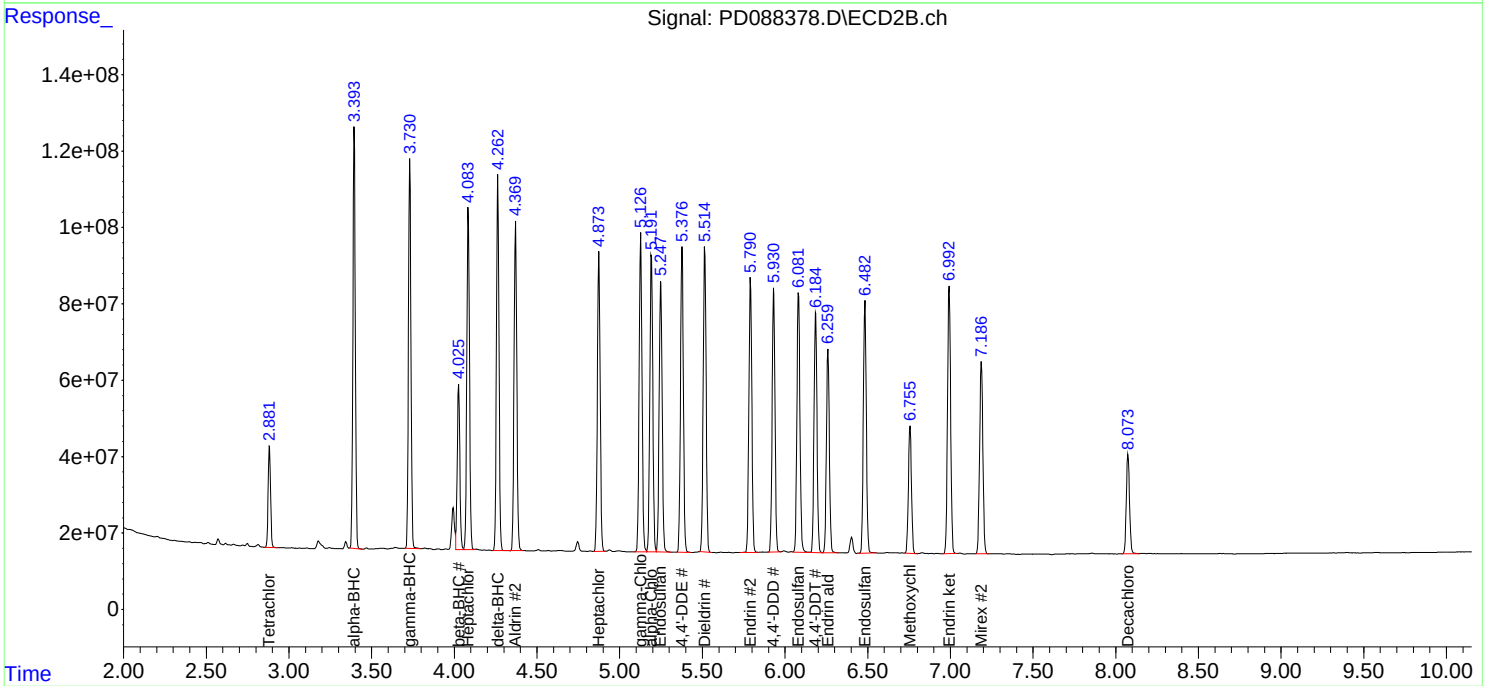
Instrument :
ECD_D
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/02/2025
Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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Manual Integration Report

Sequence:	PD041825	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088122.D	4,4"-DDD #2	Abdul	4/19/2025 2:06:43 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PSTDICC100	PD088124.D	Heptachlor epoxide #2	Abdul	4/19/2025 2:06:47 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PSTDICC005	PD088128.D	delta-BHC	Abdul	4/19/2025 2:20:23 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PEM	PD088143.D	4,4"-DDD	Abdul	4/19/2025 2:07:12 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PEM	PD088143.D	Endrin aldehyde	Abdul	4/19/2025 2:07:12 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd050125	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088365.D	4,4"-DDE	Abdul	5/2/2025 8:29:00 AM	mohammad	5/5/2025 4:37:38	Peak Integrated by Software
PEM	PD088365.D	4,4"-DDE #2	Abdul	5/2/2025 8:29:00 AM	mohammad	5/5/2025 4:37:38	Peak Integrated by Software
PEM	PD088365.D	Endrin aldehyde #2	Abdul	5/2/2025 8:29:00 AM	mohammad	5/5/2025 4:37:38	Peak Integrated by Software
Q1901-08MS	PD088377.D	delta-BHC	Abdul	5/2/2025 8:29:14 AM	mohammad	5/5/2025 4:37:48	Peak Integrated by Software
Q1901-08MSD	PD088378.D	delta-BHC	Abdul	5/2/2025 8:29:17 AM	mohammad	5/5/2025 4:37:33	Peak Integrated by Software
PSTDCCC050	PD088384.D	4,4"-DDE #2	Abdul	5/2/2025 8:29:21 AM	mohammad	5/5/2025 4:37:35	Peak Integrated by Software

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088120.D	18 Apr 2025 13:02	AR\AJ	Ok
2	I.BLK	PD088121.D	18 Apr 2025 13:15	AR\AJ	Ok
3	PEM	PD088122.D	18 Apr 2025 13:29	AR\AJ	Ok,M
4	RESCHK	PD088123.D	18 Apr 2025 13:43	AR\AJ	Ok
5	PSTDICC100	PD088124.D	18 Apr 2025 13:56	AR\AJ	Ok,M
6	PSTDICC075	PD088125.D	18 Apr 2025 14:10	AR\AJ	Ok
7	PSTDICC050	PD088126.D	18 Apr 2025 14:24	AR\AJ	Ok
8	PSTDICC025	PD088127.D	18 Apr 2025 14:37	AR\AJ	Ok
9	PSTDICC005	PD088128.D	18 Apr 2025 14:51	AR\AJ	Ok,M
10	PCHLORICC1000	PD088129.D	18 Apr 2025 15:05	AR\AJ	Ok
11	PCHLORICC750	PD088130.D	18 Apr 2025 15:18	AR\AJ	Ok
12	PCHLORICC500	PD088131.D	18 Apr 2025 15:32	AR\AJ	Ok
13	PCHLORICC250	PD088132.D	18 Apr 2025 15:46	AR\AJ	Ok
14	PCHLORICC050	PD088133.D	18 Apr 2025 15:59	AR\AJ	Ok,M
15	PTOXICC1000	PD088134.D	18 Apr 2025 16:13	AR\AJ	Ok,M
16	PTOXICC750	PD088135.D	18 Apr 2025 16:27	AR\AJ	Ok
17	PTOXICC500	PD088136.D	18 Apr 2025 16:40	AR\AJ	Ok
18	PTOXICC250	PD088137.D	18 Apr 2025 16:54	AR\AJ	Ok,M
19	PTOXICC100	PD088138.D	18 Apr 2025 17:08	AR\AJ	Ok,M
20	PSTDICV050	PD088139.D	18 Apr 2025 17:21	AR\AJ	Ok
21	PCHLORICV500	PD088140.D	18 Apr 2025 17:35	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PD088141.D	18 Apr 2025 17:49	AR\AJ	Ok
23	I.BLK	PD088142.D	18 Apr 2025 18:02	AR\AJ	Ok
24	PEM	PD088143.D	18 Apr 2025 18:16	AR\AJ	Ok,M
25	PSTDCCC050	PD088144.D	18 Apr 2025 18:30	AR\AJ	Not Ok

M : Manual Integration

Alliance TECHNICAL GROUP
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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM		
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM		
SubDirectory	PD050125	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088363.D	01 May 2025 09:28	AR\AJ	Ok
2	I.BLK	PD088364.D	01 May 2025 09:42	AR\AJ	Ok
3	PEM	PD088365.D	01 May 2025 09:55	AR\AJ	Ok,M
4	PSTDCCC050	PD088366.D	01 May 2025 11:21	AR\AJ	Ok
5	Q1910-01DL	PD088367.D	01 May 2025 11:42	AR\AJ	Ok,M
6	I.BLK	PD088368.D	01 May 2025 11:56	AR\AJ	Ok
7	PSTDCCC050	PD088369.D	01 May 2025 12:09	AR\AJ	Ok
8	PB167820BL	PD088370.D	01 May 2025 13:39	AR\AJ	Ok
9	PB167820BS	PD088371.D	01 May 2025 13:53	AR\AJ	Ok
10	PB167774TB	PD088372.D	01 May 2025 14:06	AR\AJ	Ok
11	PB167805TB	PD088373.D	01 May 2025 14:20	AR\AJ	Ok
12	Q1913-02	PD088374.D	01 May 2025 14:34	AR\AJ	Ok,M
13	Q1913-04	PD088375.D	01 May 2025 14:47	AR\AJ	Ok,M
14	Q1901-08	PD088376.D	01 May 2025 15:01	AR\AJ	Ok
15	Q1901-08MS	PD088377.D	01 May 2025 15:15	AR\AJ	Ok,M
16	Q1901-08MSD	PD088378.D	01 May 2025 15:28	AR\AJ	Ok,M
17	Q1901-09	PD088379.D	01 May 2025 15:42	AR\AJ	Ok
18	Q1901-10	PD088380.D	01 May 2025 15:56	AR\AJ	Ok
19	Q1901-11	PD088381.D	01 May 2025 16:10	AR\AJ	Ok
20	Q1907-02	PD088382.D	01 May 2025 16:23	AR\AJ	Ok
21	I.BLK	PD088383.D	01 May 2025 16:37	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM		
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM		
SubDirectory	PD050125	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PSTDCCC050	PD088384.D	01 May 2025 17:19	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088120.D	18 Apr 2025 13:02		AR\AJ	Ok
2	I.BLK	I.BLK	PD088121.D	18 Apr 2025 13:15		AR\AJ	Ok
3	PEM	PEM	PD088122.D	18 Apr 2025 13:29		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD088123.D	18 Apr 2025 13:43		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD088124.D	18 Apr 2025 13:56		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PD088125.D	18 Apr 2025 14:10		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD088126.D	18 Apr 2025 14:24		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD088127.D	18 Apr 2025 14:37		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD088128.D	18 Apr 2025 14:51		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD088129.D	18 Apr 2025 15:05		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD088130.D	18 Apr 2025 15:18		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD088131.D	18 Apr 2025 15:32		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD088132.D	18 Apr 2025 15:46		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD088133.D	18 Apr 2025 15:59		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PD088134.D	18 Apr 2025 16:13		AR\AJ	Ok,M
16	PTOXICC750	PTOXICC750	PD088135.D	18 Apr 2025 16:27		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD088136.D	18 Apr 2025 16:40		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD088137.D	18 Apr 2025 16:54		AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PD088138.D	18 Apr 2025 17:08		AR\AJ	Ok,M
20	PSTDICV050	ICVPD041825	PD088139.D	18 Apr 2025 17:21		AR\AJ	Ok
21	PCHLORICV500	ICVPD041825CHLOR	PD088140.D	18 Apr 2025 17:35		AR\AJ	Ok
22	PTOXICV500	ICVPD041825TOX	PD088141.D	18 Apr 2025 17:49		AR\AJ	Ok
23	I.BLK	I.BLK	PD088142.D	18 Apr 2025 18:02		AR\AJ	Ok
24	PEM	PEM	PD088143.D	18 Apr 2025 18:16		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD088144.D	18 Apr 2025 18:30	ccc high	AR\AJ	Not Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM		
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM		
SubDirectory	PD050125	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088363.D	01 May 2025 09:28		AR\AJ	Ok
2	I.BLK	I.BLK	PD088364.D	01 May 2025 09:42		AR\AJ	Ok
3	PEM	PEM	PD088365.D	01 May 2025 09:55		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088366.D	01 May 2025 11:21		AR\AJ	Ok
5	Q1910-01DL	MOO-25-0123-27DL	PD088367.D	01 May 2025 11:42		AR\AJ	Ok,M
6	I.BLK	I.BLK	PD088368.D	01 May 2025 11:56		AR\AJ	Ok
7	PSTDCCC050	PSTDCCC050	PD088369.D	01 May 2025 12:09		AR\AJ	Ok
8	PB167820BL	PB167820BL	PD088370.D	01 May 2025 13:39		AR\AJ	Ok
9	PB167820BS	PB167820BS	PD088371.D	01 May 2025 13:53		AR\AJ	Ok
10	PB167774TB	PB167774TB	PD088372.D	01 May 2025 14:06		AR\AJ	Ok
11	PB167805TB	PB167805TB	PD088373.D	01 May 2025 14:20		AR\AJ	Ok
12	Q1913-02	WC-12-A-202504	PD088374.D	01 May 2025 14:34		AR\AJ	Ok,M
13	Q1913-04	WC-13-A-202504	PD088375.D	01 May 2025 14:47		AR\AJ	Ok,M
14	Q1901-08	B-167-SB01	PD088376.D	01 May 2025 15:01		AR\AJ	Ok
15	Q1901-08MS	B-167-SB01MS	PD088377.D	01 May 2025 15:15		AR\AJ	Ok,M
16	Q1901-08MSD	B-167-SB01MSD	PD088378.D	01 May 2025 15:28		AR\AJ	Ok,M
17	Q1901-09	B-170-SB01	PD088379.D	01 May 2025 15:42		AR\AJ	Ok
18	Q1901-10	B-167-SB02	PD088380.D	01 May 2025 15:56		AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM		
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM		
SubDirectory	PD050125	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1901-11	B-170-SB02	PD088381.D	01 May 2025 16:10		AR\AJ	Ok
20	Q1907-02	CO-8R-WC	PD088382.D	01 May 2025 16:23		AR\AJ	Ok
21	I.BLK	I.BLK	PD088383.D	01 May 2025 16:37		AR\AJ	Ok
22	PSTDCCC050	PSTDCCC050	PD088384.D	01 May 2025 17:19		AR\AJ	Ok,M

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB167774

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/29/2025 **Time :** 17:20

End Prep Date : 04/30/2025 **Time :** 11:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Particle size reduction is not required. q1894-01,02 and 03 we receive limited volume so no fluid determation. Q1901-08 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 13:00	JP Prep Room	SLG RJ/GH
	Preparation Group	Analysis Group MTN,JG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-1
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-1
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-1
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB167774

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	100	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	100	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	100	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167774

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.02	96.5	8.4	3.0	#1	4.93
Q1901-09	B-170-SB01	5.01	96.5	9.0	4.0	#1	4.93
Q1901-10	B-167-SB02	5.02	96.5	7.0	3.5	#1	4.93
Q1901-11	B-170-SB02	5.03	96.5	8.2	3.5	#1	4.93
Q1904-02	VNJ-210	5.04	96.5	8.4	3.0	#1	4.93
Q1905-04	MH-G	5.03	96.5	5.6	1.5	#1	4.93
Q1905-08	MH-H	5.02	96.5	6.0	2.0	#1	4.93
Q1906-04	WC-4	5.03	96.5	7.6	2.5	#1	4.93
Q1906-08	WC-5	5.02	96.5	7.0	2.5	#1	4.93
Q1906-12	WC-6	5.01	96.5	6.6	2.0	#1	4.93
Q1906-16	WC-7	5.02	96.5	6.6	2.0	#1	4.93
Q1907-02	CO-8R-WC	5.02	96.5	8.4	3.0	#1	4.93
Q1912-04	MH-E	5.01	96.5	6.6	2.0	#1	4.93
Q1912-08	MH-F	5.02	96.5	6.4	2.0	#1	4.93
Q1913-01	WC-12-S-202504	5.02	96.5	8.2	3.5	#1	4.93
Q1913-03	WC-13-S-202504	5.01	96.5	8.0	3.0	#1	4.93
Q1915-01	WC-04282025	5.02	96.5	8.4	3.5	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q1907 **WorkList ID :** 189188 **Department :** TCLP Extraction **Date :** 04-29-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1913-03	WC-13-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1915-01	WC-04282025	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1901-08	B-167-SB01	Solid	TCLP Extraction	Cool 4 deg C	CAMP02	L41	04/28/2025	1311
Q1901-09	B-170-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-10	B-167-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-11	B-170-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-01	PAINTED-GROUND-PIPE--1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-02	PAINTED-GROUND-PIPE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1894-03	PAINTED-GROUND-PIPE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1904-02	VNJ-210	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1905-04	MH-G	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1905-08	MH-H	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-04	WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-08	WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-12	WC-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-16	WC-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-04	MH-E	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-08	MH-F	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311
Q1907-02	CO-8R-WC	Solid	TCLP Extraction	Cool 4 deg C	WALS01		04/28/2025	1311

Date/Time 04/29/25 17:00

Raw Sample Received by: [illegible] (WDC)

Raw Sample Relinquished by: JD (CSM)

Date/Time 04/29/25 19:30

Raw Sample Received by: JD (CSM)

Raw Sample Relinquished by: [illegible] (WDC)

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EXTRACTION LOGPAGE

PB167820

SOP ID:	M3510C,3580A-Extraction Pesticide-16				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/01/2025
Matrix :	Water			**Extraction Start Time :**	08:56
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	05/01/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:30
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24460
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2607
Hexane	N/A	E3928
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS723.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/1/25	RS (Extraction Lab)	Y. P. Post PCB
13:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167820

Analytical Method: M3510C,3580A-Extraction Pesticide-16 **Concentration Date:** 05/01/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167774TB	PB167774TB	TCLP Pesticide	100	6	RUPESH	Evelyn	10			SEP-1
PB167805TB	PB167805TB	TCLP Pesticide	100	6	RUPESH	Evelyn	10			2
PB167820BL	PBLK820	TCLP Pesticide	1000	6	RUPESH	Evelyn	10			3
PB167820BS	PLCS820	TCLP Pesticide	1000	6	RUPESH	Evelyn	10			4
Q1901-08	B-167-SB01	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		5
Q1901-08MS	B-167-SB01MS	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		6
Q1901-08MSD	B-167-SB01MSD	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		7
Q1901-09	B-170-SB01	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		8
Q1901-10	B-167-SB02	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		9
Q1901-11	B-170-SB02	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		10
Q1907-02	CO-8R-WC	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		11
Q1913-02	WC-12-A-202504	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		12
Q1913-04	WC-13-A-202504	TCLP Pesticide	100	6	RUPESH	Evelyn	10	A		13

5/1

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	P
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

04/30/25
23.0C

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167805

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Po
PB167805TB	LEB805	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A
Q1913-02	WC-12-A-202504	N/A	N/A	N/A	N/A	N/A	N/A	12.0	1.5	N/A
Q1913-04	WC-13-A-202504	N/A	N/A	N/A	N/A	N/A	N/A	12.0	1.5	N/A

04/30/25
13:00

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

LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Raw Data: **PP071622.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	82.6 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071622.D	1	04/29/25 08:35	04/29/25 18:56	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.5	ug/kg
11104-28-2	Aroclor-1221	4.90	U	4.90	20.5	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.5	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.5	ug/kg
12672-29-6	Aroclor-1248	7.20	U	7.20	20.5	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.5	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10	20.5	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.5	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.3		30 (32) - 150 (144)	117%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.4		30 (32) - 150 (175)	107%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071643.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	83 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071643.D	1	04/30/25 08:35	04/30/25 13:12	PB167794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.5	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.5	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.5	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.5	ug/kg
12672-29-6	Aroclor-1248	7.10	U	7.10	20.5	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.5	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	20.5	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.5	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.3		30 (32) - 150 (144)	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		30 (32) - 150 (175)	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071623.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	53.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071623.D	1	04/29/25 08:35	04/29/25 19:12	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7.40	U	7.40	31.9	ug/kg
11104-28-2	Aroclor-1221	7.60	U	7.60	31.9	ug/kg
11141-16-5	Aroclor-1232	7.00	U	7.00	31.9	ug/kg
53469-21-9	Aroclor-1242	7.50	U	7.50	31.9	ug/kg
12672-29-6	Aroclor-1248	11.1	U	11.1	31.9	ug/kg
11097-69-1	Aroclor-1254	6.00	U	6.00	31.9	ug/kg
37324-23-5	Aroclor-1262	9.40	U	9.40	31.9	ug/kg
11100-14-4	Aroclor-1268	6.80	U	6.80	31.9	ug/kg
11096-82-5	Aroclor-1260	6.10	U	6.10	31.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.5		30 (32) - 150 (175)	67%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110856.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	75.1 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110856.D	1	04/29/25 08:35	04/29/25 13:36	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.30	U	5.30	22.6	ug/kg
11104-28-2	Aroclor-1221	5.40	U	5.40	22.6	ug/kg
11141-16-5	Aroclor-1232	4.90	U	4.90	22.6	ug/kg
53469-21-9	Aroclor-1242	5.30	U	5.30	22.6	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	22.6	ug/kg
11097-69-1	Aroclor-1254	4.30	U	4.30	22.6	ug/kg
37324-23-5	Aroclor-1262	6.70	U	6.70	22.6	ug/kg
11100-14-4	Aroclor-1268	4.80	U	4.80	22.6	ug/kg
11096-82-5	Aroclor-1260	4.30	U	4.30	22.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.6		30 (32) - 150 (144)	123%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		30 (32) - 150 (175)	105%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110874.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	870 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110874.D	1	04/29/25 08:55	04/29/25 20:14	PB167782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.11	U	0.11	0.57	ug/L
11104-28-2	Aroclor-1221	0.15	U	0.15	0.57	ug/L
11141-16-5	Aroclor-1232	0.11	U	0.11	0.57	ug/L
53469-21-9	Aroclor-1242	0.14	U	0.14	0.57	ug/L
12672-29-6	Aroclor-1248	0.082	U	0.082	0.57	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.57	ug/L
37324-23-5	Aroclor-1262	0.16	U	0.16	0.57	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.57	ug/L
11096-82-5	Aroclor-1260	0.093	U	0.093	0.57	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.2		30 (16) - 150 (158)	121%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.2		30 (10) - 150 (173)	86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PO110348.D	PIBLK-PO110348.D	Tetrachloro-m-xylene	1	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.2	96		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.2	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.2	101		70 (60)	130 (140)
I.BLK-PO110850.D	PIBLK-PO110850.D	Tetrachloro-m-xylene	1	20	18.0	90		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	16.9	85		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	16.6	83		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	16.7	84		70 (60)	130 (140)
Q1901-05	B-170-SB02	Tetrachloro-m-xylene	1	20	24.6	123		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.9	104		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	22.3	111		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.0	105		30 (32)	150 (175)
I.BLK-PO110865.D	PIBLK-PO110865.D	Tetrachloro-m-xylene	1	20	18.4	92		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.5	88		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	16.9	84		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	16.9	85		70 (60)	130 (140)
Q1904-01MS	VNJ-210MS	Tetrachloro-m-xylene	1	20	23.3	117		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.1	96		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.1	95		30 (32)	150 (175)
Q1904-01MSD	VNJ-210MSD	Tetrachloro-m-xylene	1	20	22.9	114		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.0	95		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.7	93		30 (32)	150 (175)
Q1901-06	FB04262025	Tetrachloro-m-xylene	1	20	24.2	121		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	16.2	81		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	17.2	86		30 (10)	150 (173)
I.BLK-PO110880.D	PIBLK-PO110880.D	Tetrachloro-m-xylene	1	20	18.4	92		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	16.6	83		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.0	85		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	16.7	83		70 (60)	130 (140)
I.BLK-PP071388.D	PIBLK-PP071388.D	Tetrachloro-m-xylene	1	20	17.1	85		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.6	88		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.2	86		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.6	88		70 (60)	130 (140)
I.BLK-PP071603.D	PIBLK-PP071603.D	Tetrachloro-m-xylene	1	20	15.9	79		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.3	86		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.3	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.6	93		70 (60)	130 (140)
PB167776BL	PB167776BL	Tetrachloro-m-xylene	1	20	18.7	94		30 (32)	150 (144)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB167776BL	PB167776BL	Decachlorobiphenyl	1	20	19.5	97		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.9	100		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.1	105		30 (32)	150 (175)
PB167776BS	PB167776BS	Tetrachloro-m-xylene	1	20	19.5	97		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.9	105		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.7	103		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.3	106		30 (32)	150 (175)
I.BLK-PP071618.D	PIBLK-PP071618.D	Tetrachloro-m-xylene	1	20	16.0	80		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.0	90		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.3	86		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.3	96		70 (60)	130 (140)
Q1901-02	B-167-SB01	Tetrachloro-m-xylene	1	20	21.1	106		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.4	102		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	23.3	117		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.4	107		30 (32)	150 (175)
Q1901-04	B-167-SB02	Tetrachloro-m-xylene	1	20	17.7	89		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	12.3	62		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	13.5	67		30 (32)	150 (175)
PB167782BL	PB167782BL	Tetrachloro-m-xylene	1	20	18.4	92		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	20.1	100		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.5	103		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	20.3	102		30 (10)	150 (173)
PB167782BS	PB167782BS	Tetrachloro-m-xylene	1	20	18.7	93		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	19.8	99		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.5	92		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	20.6	103		30 (10)	150 (173)
PB167782BSD	PB167782BSD	Tetrachloro-m-xylene	1	20	18.9	95		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	19.9	100		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	21.3	107		30 (10)	150 (173)
I.BLK-PP071633.D	PIBLK-PP071633.D	Tetrachloro-m-xylene	1	20	16.8	84		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.0	90		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.2	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.2	96		70 (60)	130 (140)
I.BLK-PP071639.D	PIBLK-PP071639.D	Tetrachloro-m-xylene	1	20	16.2	81		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.4	87		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	16.4	82		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.6	88		70 (60)	130 (140)
PB167794BL	PB167794BL	Tetrachloro-m-xylene	1	20	19.2	96		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.5	102		30 (32)	150 (175)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB167794BL	PB167794BL	Tetrachloro-m-xylene	2	20	20.2	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.3	106		30 (32)	150 (175)
PB167794BS	PB167794BS	Tetrachloro-m-xylene	1	20	19.5	98		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.3	101		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.6	93		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.8	104		30 (32)	150 (175)
Q1901-03	B-170-SB01	Tetrachloro-m-xylene	1	20	17.6	88		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	15.6	78		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.3	102		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	17.6	88		30 (32)	150 (175)
Q1910-01MS	MOO-25-0123-27MS	Tetrachloro-m-xylene	1	20	18.4	92		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.9	85		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.1	91		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	17.3	86		30 (32)	150 (175)
Q1910-01MSD	MOO-25-0123-27MSD	Tetrachloro-m-xylene	1	20	17.9	90		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.1	96		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.5	93		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.5	98		30 (32)	150 (175)
I.BLK-PP071654.D	PIBLK-PP071654.D	Tetrachloro-m-xylene	1	20	15.9	80		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.1	85		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	16.7	83		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.4	92		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO110867.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**VNJ-210MS**											
Q1904-01MS	AR1016	183.8	0	201	ug/kg	109				40 (55)	140 (146)	
	AR1260	183.8	0	187	ug/kg	102				40 (31)	140 (146)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO110868.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**VNJ-210MSD**											
Q1904-01MSD	AR1016	183.7	0	199	ug/kg	108		1		40 (55)	140 (146)	30 (20)
	AR1260	183.7	0	183	ug/kg	100		2		40 (31)	140 (146)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP071648.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**MOO-25-0123-27MS**											
Q1910-01MS	AR1016	187.4	0	166	ug/kg	89				40 (55)	140 (146)	
	AR1260	187.4	0	206	ug/kg	110				40 (31)	140 (146)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP071649.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**MOO-25-0123-27MSD**											
Q1910-01MSD	AR1016	187.1	0	171	ug/kg	91		2		40 (55)	140 (146)	30 (20)
	AR1260	187.1	0	231	ug/kg	123		11		40 (31)	140 (146)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP071608.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167776BS	AR1016	166.5	156	ug/kg	94				40 (71)	140 (120)	
	AR1260	166.5	157	ug/kg	94				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP071625.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167782BS	AR1016	5	4.20	ug/L	84				40 (61)	140 (112)	
	AR1260	5	4.60	ug/L	92				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP071626.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167782BSD	AR1016	5	4.40	ug/L	88	5			40 (61)	140 (112)	20 (20)
	AR1260	5	4.20	ug/L	84	9			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP071642.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167794BS	AR1016	166.5	150	ug/kg	90				40 (71)	140 (120)	
	AR1260	166.5	153	ug/kg	92				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167776BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167776BL Lab File ID: PP071607.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 04/29/2025

Date Analyzed (1): 04/29/2025 Date Analyzed (2): 04/29/2025

Time Analyzed (1): 13:30 Time Analyzed (2): 13:30

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
B-170-SB02	Q1901-05	PO110856.D	04/29/2025	04/29/2025
VNJ-210MS	Q1904-01MS	PO110867.D	04/29/2025	04/29/2025
VNJ-210MSD	Q1904-01MSD	PO110868.D	04/29/2025	04/29/2025
PB167776BS	PB167776BS	PP071608.D	04/29/2025	04/29/2025
B-167-SB01	Q1901-02	PP071622.D	04/29/2025	04/29/2025
B-167-SB02	Q1901-04	PP071623.D	04/29/2025	04/29/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167782BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167782BL Lab File ID: PP071624.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 04/29/2025

Date Analyzed (1): 04/29/2025 Date Analyzed (2): 04/29/2025

Time Analyzed (1): 19:29 Time Analyzed (2): 19:29

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
FB04262025	Q1901-06	PO110874.D	04/29/2025	04/29/2025
PB167782BS	PB167782BS	PP071625.D	04/29/2025	04/29/2025
PB167782BSD	PB167782BSD	PP071626.D	04/29/2025	04/29/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167794BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167794BL Lab File ID: PP071641.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 04/30/2025

Date Analyzed (1): 04/30/2025 Date Analyzed (2): 04/30/2025

Time Analyzed (1): 12:39 Time Analyzed (2): 12:39

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167794BS	PB167794BS	PP071642.D	04/30/2025	04/30/2025
B-170-SB01	Q1901-03	PP071643.D	04/30/2025	04/30/2025
MOO-25-0123-27MS	Q1910-01MS	PP071648.D	04/30/2025	04/30/2025
MOO-25-0123-27MSD	Q1910-01MSD	PP071649.D	04/30/2025	04/30/2025

COMMENTS:

QC SAMPLE DATA

Raw Data: **PP071607.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167776BL	SDG No.:	Q1901
Lab Sample ID:	PB167776BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071607.D	1	04/29/25 08:35	04/29/25 13:30	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		30 (32) - 150 (175)	105%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071624.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167782BL	SDG No.:	Q1901
Lab Sample ID:	PB167782BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071624.D	1	04/29/25 08:55	04/29/25 19:29	PB167782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.5		30 (16) - 150 (158)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.3		30 (10) - 150 (173)	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071641.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167794BL	SDG No.:	Q1901
Lab Sample ID:	PB167794BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071641.D	1	04/30/25 08:35	04/30/25 12:39	PB167794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		30 (32) - 150 (144)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		30 (32) - 150 (175)	106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/10/25
Client Sample ID:	PIBLK-PO110348.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PO110348.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110348.D	1		04/10/25	PO041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		70 (60) - 130 (140)	96%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-PO110850.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PO110850.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110850.D	1		04/29/25	PO042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.6		70 (60) - 130 (140)	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.7		70 (60) - 130 (140)	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-PO110865.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PO110865.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110865.D	1		04/29/25	PO042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.9		70 (60) - 130 (140)	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		70 (60) - 130 (140)	85%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-PO110880.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PO110880.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110880.D	1		04/29/25	PO042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		70 (60) - 130 (140)	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.6		70 (60) - 130 (140)	83%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/22/25
Client Sample ID:	PIBLK-PP071388.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PP071388.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071388.D	1		04/22/25	PP042225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.1		70 (60) - 130 (140)	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		70 (60) - 130 (140)	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-PP071603.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PP071603.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071603.D	1		04/29/25	PP042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.9		70 (60) - 130 (140)	79%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		70 (60) - 130 (140)	86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-PP071618.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PP071618.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071618.D	1		04/29/25	PP042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.0		70 (60) - 130 (140)	80%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.0		70 (60) - 130 (140)	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-PP071633.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PP071633.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071633.D	1		04/29/25	PP042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.8		70 (60) - 130 (140)	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.0		70 (60) - 130 (140)	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/30/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/30/25
Client Sample ID:	PIBLK-PP071639.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PP071639.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071639.D	1		04/30/25	PP043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.2		70 (60) - 130 (140)	81%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		70 (60) - 130 (140)	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/30/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/30/25
Client Sample ID:	PIBLK-PP071654.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PP071654.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071654.D	1		04/30/25	pp043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.9		70 (60) - 130 (140)	80%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		70 (60) - 130 (140)	85%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071608.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167776BS	SDG No.:	Q1901
Lab Sample ID:	PB167776BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071608.D	1	04/29/25 08:35	04/29/25 13:46	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	156		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	157		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		30 (32) - 150 (144)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		30 (32) - 150 (175)	106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071625.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167782BS	SDG No.:	Q1901
Lab Sample ID:	PB167782BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071625.D	1	04/29/25 08:55	04/29/25 19:45	PB167782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.20		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.60		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.7		30 (16) - 150 (158)	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		30 (10) - 150 (173)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071642.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167794BS	SDG No.:	Q1901
Lab Sample ID:	PB167794BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071642.D	1	04/30/25 08:35	04/30/25 12:56	PB167794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	150		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	153		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		30 (32) - 150 (144)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		30 (32) - 150 (175)	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071626.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167782BSD	SDG No.:	Q1901
Lab Sample ID:	PB167782BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071626.D	1	04/29/25 08:55	04/29/25 20:01	PB167782

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.40		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.20		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		30 (16) - 150 (158)	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		30 (10) - 150 (173)	107%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110867.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/28/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	VNJ-210MS	SDG No.:	Q1901
Lab Sample ID:	Q1904-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110867.D	1	04/29/25 08:35	04/29/25 18:05	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	201		4.40	18.7	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.7	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.7	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.7	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.7	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.7	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.7	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.7	ug/kg
11096-82-5	Aroclor-1260	187		3.60	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.3		30 (32) - 150 (144)	117%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.1		30 (32) - 150 (175)	96%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071648.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	MOO-25-0123-27MS	SDG No.:	Q1901
Lab Sample ID:	Q1910-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071648.D	1	04/30/25 08:35	04/30/25 14:49	PB167794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	166		4.40	19.1	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.1	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.1	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.1	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.1	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.1	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	19.1	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.1	ug/kg
11096-82-5	Aroclor-1260	206		3.60	19.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.4		30 (32) - 150 (144)	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		30 (32) - 150 (175)	86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/28/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	VNJ-210MSD	SDG No.:	Q1901
Lab Sample ID:	Q1904-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110868.D	1	04/29/25 08:35	04/29/25 18:23	PB167776

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	199		4.40	18.7	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.7	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.7	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.7	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.7	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.7	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.7	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.7	ug/kg
11096-82-5	Aroclor-1260	183		3.60	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		30 (32) - 150 (144)	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		30 (32) - 150 (175)	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071649.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	MOO-25-0123-27MSD	SDG No.:	Q1901
Lab Sample ID:	Q1910-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.9 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071649.D	1	04/30/25 08:35	04/30/25 15:05	PB167794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	171		4.40	19.1	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.1	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.1	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.1	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	19.1	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.1	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	19.1	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.1	ug/kg
11096-82-5	Aroclor-1260	231	P	3.60	19.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		30 (32) - 150 (144)	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		30 (32) - 150 (175)	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_O **Calibration Date(s):** 04/10/2025 04/10/2025

Calibration Times: 09:36 17:52

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO110349.D RT 750 = PO110350.D

RT 500 = PO110351.D RT 250 = PO110352.D RT 050 = PO110353.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1016-2	(2)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1016-3	(3)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1016-4	(4)	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Aroclor-1016-5	(5)	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
Aroclor-1260-1	(1)	6.27	6.27	6.27	6.27	6.27	6.27	6.17	6.37
Aroclor-1260-2	(2)	6.46	6.46	6.46	6.46	6.46	6.46	6.36	6.56
Aroclor-1260-3	(3)	6.83	6.83	6.83	6.83	6.83	6.83	6.73	6.93
Aroclor-1260-4	(4)	7.09	7.09	7.09	7.09	7.09	7.09	6.99	7.19
Aroclor-1260-5	(5)	7.33	7.33	7.33	7.33	7.33	7.33	7.23	7.43
Decachlorobiphenyl		8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1242-1	(1)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1242-2	(2)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1242-3	(3)	4.86	4.86	4.86	4.86	4.85	4.86	4.76	4.96
Aroclor-1242-4	(4)	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Aroclor-1242-5	(5)	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
Decachlorobiphenyl		8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1248-1	(1)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1248-2	(2)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1248-3	(3)	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
Aroclor-1248-4	(4)	5.59	5.59	5.59	5.59	5.59	5.59	5.49	5.69
Aroclor-1248-5	(5)	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
Decachlorobiphenyl		8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1254-1	(1)	5.59	5.59	5.59	5.59	5.59	5.59	5.49	5.69
Aroclor-1254-2	(2)	5.74	5.74	5.74	5.74	5.74	5.74	5.64	5.84
Aroclor-1254-3	(3)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1254-4	(4)	6.37	6.37	6.37	6.37	6.37	6.37	6.27	6.47
Aroclor-1254-5	(5)	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Decachlorobiphenyl		8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1268-1	(1)	7.62	7.61	7.62	7.62	7.62	7.62	7.52	7.72
Aroclor-1268-2	(2)	7.68	7.68	7.68	7.68	7.68	7.68	7.58	7.78
Aroclor-1268-3	(3)	7.89	7.89	7.89	7.89	7.89	7.89	7.79	7.99
Aroclor-1268-4	(4)	8.18	8.17	8.18	8.18	8.18	8.18	8.08	8.28
Aroclor-1268-5	(5)	8.47	8.47	8.47	8.47	8.47	8.47	8.37	8.57

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Tetrachloro-m-xylene	3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_O **Calibration Date(s):** 04/10/2025 04/10/2025

Calibration Times: 09:36 17:52

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO110349.D RT 750 = PO110350.D

RT 500 = PO110351.D RT 250 = PO110352.D RT 050 = PO110353.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1016-2	(2)	4.78	4.79	4.78	4.78	4.79	4.78	4.68	4.88
Aroclor-1016-3	(3)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-4	(4)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1016-5	(5)	5.22	5.22	5.22	5.21	5.22	5.22	5.12	5.32
Aroclor-1260-1	(1)	6.25	6.25	6.25	6.25	6.25	6.25	6.15	6.35
Aroclor-1260-2	(2)	6.43	6.43	6.43	6.43	6.43	6.43	6.33	6.53
Aroclor-1260-3	(3)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Aroclor-1260-4	(4)	7.06	7.06	7.06	7.06	7.06	7.06	6.96	7.16
Aroclor-1260-5	(5)	7.30	7.30	7.30	7.30	7.30	7.30	7.20	7.40
Decachlorobiphenyl		8.69	8.69	8.68	8.68	8.68	8.68	8.58	8.78
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1242-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1242-2	(2)	4.79	4.79	4.78	4.79	4.78	4.78	4.68	4.88
Aroclor-1242-3	(3)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1242-4	(4)	5.04	5.05	5.04	5.05	5.04	5.04	4.94	5.14
Aroclor-1242-5	(5)	5.57	5.57	5.56	5.57	5.56	5.57	5.47	5.67
Decachlorobiphenyl		8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Tetrachloro-m-xylene		3.69	3.69	3.68	3.69	3.68	3.69	3.59	3.79
Aroclor-1248-1	(1)	4.77	4.77	4.77	4.77	4.76	4.77	4.67	4.87
Aroclor-1248-2	(2)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-3	(3)	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
Aroclor-1248-4	(4)	5.21	5.22	5.22	5.21	5.21	5.21	5.11	5.31
Aroclor-1248-5	(5)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Decachlorobiphenyl		8.68	8.69	8.69	8.68	8.68	8.68	8.58	8.78
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.68	3.69	3.59	3.79
Aroclor-1254-1	(1)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1254-2	(2)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Aroclor-1254-3	(3)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-4	(4)	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Aroclor-1254-5	(5)	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Decachlorobiphenyl		8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Tetrachloro-m-xylene		3.69	3.69	3.69	3.68	3.69	3.69	3.59	3.79
Aroclor-1268-1	(1)	7.58	7.58	7.58	7.58	7.58	7.58	7.48	7.68
Aroclor-1268-2	(2)	7.65	7.65	7.65	7.65	7.65	7.65	7.55	7.75
Aroclor-1268-3	(3)	7.85	7.85	7.85	7.85	7.85	7.85	7.75	7.95
Aroclor-1268-4	(4)	8.14	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Aroclor-1268-5	(5)	8.43	8.43	8.43	8.43	8.43	8.43	8.33	8.53

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Tetrachloro-m-xylene	3.68	3.68	3.69	3.69	3.68	3.68	3.58	3.78

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_O **Calibration Date(s):** 04/10/2025 04/10/2025

Calibration Times: 09:36 17:52

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO110349.D **CF 750 =** PO110350.D

CF 500 = PO110351.D **CF 250 =** PO110352.D **CF 050 =** PO110353.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	301539199	312147691	325366094	341425388	360239300	328143534	7
Aroclor-1016-2	(2)	424202495	441346851	452587054	472466840	484138100	454948268	5
Aroclor-1016-3	(3)	286857785	300177247	315792572	336640016	373170260	322527576	10
Aroclor-1016-4	(4)	227624644	238137328	247842320	261218376	270999820	249164498	7
Aroclor-1016-5	(5)	238190199	250655776	262830422	281583724	311798080	269011640	11
Aroclor-1260-1	(1)	429982139	447081743	462005040	490865312	532292280	472445303	9
Aroclor-1260-2	(2)	524274151	548276752	560001580	596374412	703195060	586424391	12
Aroclor-1260-3	(3)	446012749	466468717	482076654	511871688	557932460	492872454	9
Aroclor-1260-4	(4)	382143422	400404183	417623168	445374396	476569960	424423026	9
Aroclor-1260-5	(5)	1002895230	1031868237	1046125762	1065122080	1071346720	1043471606	3
Decachlorobiphenyl		7251274760	7526590267	7768647820	8211713920	8716546400	7894954633	7
Tetrachloro-m-xylene		8603197440	8796106920	8951138380	8737007280	8657843200	8749058644	2
Aroclor-1242-1	(1)	251425090	265265637	280796652	297523620	292655800	277533360	7
Aroclor-1242-2	(2)	357466275	381332853	387813836	403164036	399090640	385773528	5
Aroclor-1242-3	(3)	243771373	289655151	275873660	292357392	289351880	278201891	7
Aroclor-1242-4	(4)	192501706	205352244	214136342	225398444	219447980	211367343	6
Aroclor-1242-5	(5)	201519138	214789603	225760330	239210520	250688060	226393530	9
Decachlorobiphenyl		7236681930	7570895773	7844756000	8188613360	8340739400	7836337293	6
Tetrachloro-m-xylene		8271521710	8776052907	8899890520	8994445160	8028934800	8594169019	5
Aroclor-1248-1	(1)	197377890	205758444	217881170	227760364	215403640	212836302	5
Aroclor-1248-2	(2)	269669918	281050744	300223294	312748708	315932500	295925033	7
Aroclor-1248-3	(3)	336662132	352073889	372312126	402058472	386700500	369961424	7
Aroclor-1248-4	(4)	480139637	497256893	523877470	552564648	546315400	520030810	6
Aroclor-1248-5	(5)	340550967	353429060	372487386	395512156	385149340	369425782	6
Decachlorobiphenyl		7423367890	7666646707	8031765140	8382357480	8221484000	7945124243	5
Tetrachloro-m-xylene		8572177400	8675092440	8959183240	8875828960	7878695600	8592195528	5
Aroclor-1254-1	(1)	517202507	536393799	555537214	581626948	599185020	557989098	6
Aroclor-1254-2	(2)	450798901	468206104	477861830	506770124	524875880	485702568	6
Aroclor-1254-3	(3)	746169545	769125461	779743060	811121676	809948840	783221716	4
Aroclor-1254-4	(4)	460149954	473941677	490156778	505394424	508383480	487605263	4
Aroclor-1254-5	(5)	657635451	678198725	698380664	724566284	745718260	700899877	5
Decachlorobiphenyl		7612990370	7886723680	8142983840	8479059160	8719027400	8168156890	5
Tetrachloro-m-xylene		8665092200	8825966600	8709112240	8974669960	8357494600	8706467120	3
Aroclor-1268-1	(1)	1383597022	1397247867	1409112634	1454718672	1376171500	1404169539	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1284666762	1297280443	1294427176	1315942372	1206403380	1279744027	3
Aroclor-1268-3	(3)	1040477449	1046596769	1051327350	1081872512	994526740	1042960164	3
Aroclor-1268-4	(4)	443191011	422978037	441841820	472590652	440184600	444157224	4
Aroclor-1268-5	(5)	3289098269	3287076648	3286110800	3299829260	2937018240	3219826643	5
Decachlorobiphenyl		14008782040	14232407573	14386243640	14978905640	14264840400	14374235859	3
Tetrachloro-m-xylene		8842756020	8685831240	8461342580	8927106240	7893566400	8562120496	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_O **Calibration Date(s):** 04/10/2025 04/10/2025

Calibration Times: 09:36 17:52

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO110349.D **CF 750 =** PO110350.D

CF 500 = PO110351.D **CF 250 =** PO110352.D **CF 050 =** PO110353.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	159213491	166153001	173161426	184455932	194563640	175509498	8
Aroclor-1016-2	(2)	235577328	244073360	249915638	259769828	267988640	251464959	5
Aroclor-1016-3	(3)	123754519	129314112	134837594	142342816	148305560	135710920	7
Aroclor-1016-4	(4)	100154968	106815488	112688448	121621132	130559280	114367863	11
Aroclor-1016-5	(5)	131736277	138471012	145266388	155239544	174656140	149073872	11
Aroclor-1260-1	(1)	221282381	231306280	240804372	256804492	279620260	245963557	9
Aroclor-1260-2	(2)	260045501	271771868	281572488	298549944	346814040	291750768	12
Aroclor-1260-3	(3)	243412958	253822376	261595986	277903536	317685740	270884119	11
Aroclor-1260-4	(4)	177247956	186943988	195746612	210913364	232348220	200640028	11
Aroclor-1260-5	(5)	430279301	445092429	452357666	469475868	497083160	458857685	6
Decachlorobiphenyl		1704536950	1791384040	1872045360	2025627840	2231357400	1924990318	11
Tetrachloro-m-xylene		4868987290	4975470093	5049711440	5093085920	4961663200	4989783589	2
Aroclor-1242-1	(1)	135406625	142863792	148969750	157870364	162402140	149502534	7
Aroclor-1242-2	(2)	196039746	208415869	214437698	224916372	223006160	213363169	6
Aroclor-1242-3	(3)	104255216	111360831	115893042	122823476	123579060	115582325	7
Aroclor-1242-4	(4)	104208953	112717296	118822658	128761036	135986400	120099269	11
Aroclor-1242-5	(5)	127551049	136157379	142405808	154240196	165129880	145096862	10
Decachlorobiphenyl		1618576700	1765984867	1877839140	2017748840	2043806200	1864791149	10
Tetrachloro-m-xylene		4668026020	4940087107	5018557540	5112714200	4785540800	4904985133	4
Aroclor-1248-1	(1)	105821161	111030904	117101186	122057144	119649440	115131967	6
Aroclor-1248-2	(2)	147033899	153433108	164488546	172099504	177357920	162882595	8
Aroclor-1248-3	(3)	157542784	164259717	175853068	186850756	194774160	175856097	9
Aroclor-1248-4	(4)	185573916	192640824	204179344	219437840	216561660	203678717	7
Aroclor-1248-5	(5)	181941821	187320336	197908182	210306260	209502440	197395808	6
Decachlorobiphenyl		1708281780	1752376693	1900332500	2015603280	2024700800	1880259011	8
Tetrachloro-m-xylene		4827908270	4873975707	5038663740	4997540000	4437882400	4835194023	5
Aroclor-1254-1	(1)	275528987	285381728	296386294	310788612	339409960	301499116	8
Aroclor-1254-2	(2)	239912515	249193828	258146844	274680708	301492780	264685335	9
Aroclor-1254-3	(3)	379979735	392440955	403528434	417422392	423708940	403416091	4
Aroclor-1254-4	(4)	215870098	222432417	229245508	238627400	242389020	229712889	5
Aroclor-1254-5	(5)	307722172	319481015	330728230	346867608	356659680	332291741	6
Decachlorobiphenyl		1672742580	1794748347	1901326780	2085791440	2132484800	1917418789	10
Tetrachloro-m-xylene		4865625930	4959437227	4872791400	5058078960	4761547200	4903496143	2
Aroclor-1268-1	(1)	525182929	538928599	545888608	568124632	560585780	547742110	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	480641047	490576048	498020244	516699400	501511240	497489596	3
Aroclor-1268-3	(3)	351934435	362716216	370714832	389280160	383206160	371570361	4
Aroclor-1268-4	(4)	132381746	136088747	141172922	152568336	143480180	141138386	5
Aroclor-1268-5	(5)	751733306	775563612	792246668	813875020	802618900	787207501	3
Decachlorobiphenyl		3018392240	3167067147	3278510040	3500677320	3503309000	3293591149	6
Tetrachloro-m-xylene		4973805090	4889835600	4772598500	5033958160	4487276800	4831494830	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_O **Date(s) Analyzed:** 04/10/2025 04/10/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.90	3.80	4.00	118035000
		2	3.99	3.89	4.09	88343600
		3	4.06	3.96	4.16	263124000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.06	3.96	4.16	204824000
		2	4.56	4.46	4.66	106709000
		3	4.80	4.70	4.90	199781000
		4	4.98	4.88	5.08	102298000
		5	5.02	4.92	5.12	68902400
Aroclor-1262	500	1	6.83	6.73	6.93	701458000
		2	7.33	7.23	7.43	1207740000
		3	7.62	7.52	7.72	509104000
		4	7.68	7.58	7.78	896274000
		5	8.18	8.08	8.28	402994000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_O **Date(s) Analyzed:** 04/10/2025 04/10/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.90	3.80	4.00	66772400
		2	3.98	3.88	4.08	50096200
		3	4.06	3.96	4.16	149170000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.06	3.96	4.16	115024000
		2	4.78	4.68	4.88	110868000
		3	4.96	4.86	5.06	57203200
		4	5.04	4.94	5.14	53953400
		5	5.21	5.11	5.31	57135800
Aroclor-1262	500	1	6.80	6.70	6.90	329340000
		2	7.30	7.20	7.40	508458000
		3	7.58	7.48	7.68	193630000
		4	7.64	7.54	7.74	347054000
		5	8.14	8.04	8.24	124595000

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP071389.D RT 750 = PP071390.D

RT 500 = PP071391.D RT 250 = PP071392.D RT 050 = PP071393.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.66	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1016-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1016-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1016-4	(4)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1016-5	(5)	6.14	6.14	6.15	6.14	6.14	6.14	6.04	6.24
Aroclor-1260-1	(1)	7.26	7.26	7.27	7.26	7.26	7.26	7.16	7.36
Aroclor-1260-2	(2)	7.51	7.51	7.52	7.52	7.52	7.52	7.42	7.62
Aroclor-1260-3	(3)	7.87	7.87	7.88	7.87	7.88	7.87	7.77	7.97
Aroclor-1260-4	(4)	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Aroclor-1260-5	(5)	8.42	8.42	8.42	8.42	8.42	8.42	8.32	8.52
Decachlorobiphenyl		10.23	10.23	10.24	10.23	10.24	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.52	4.51	4.52	4.51	4.41	4.61
Aroclor-1242-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1242-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1242-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1242-4	(4)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1242-5	(5)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Decachlorobiphenyl		10.23	10.24	10.24	10.23	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene		4.51	4.52	4.51	4.51	4.52	4.51	4.41	4.61
Aroclor-1248-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1248-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1248-3	(3)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1248-4	(4)	6.54	6.54	6.54	6.54	6.54	6.54	6.44	6.64
Aroclor-1248-5	(5)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Decachlorobiphenyl		10.24	10.24	10.24	10.24	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene		4.52	4.52	4.51	4.51	4.51	4.51	4.41	4.61
Aroclor-1254-1	(1)	6.52	6.52	6.52	6.52	6.52	6.52	6.42	6.62
Aroclor-1254-2	(2)	6.74	6.74	6.74	6.73	6.74	6.74	6.64	6.84
Aroclor-1254-3	(3)	7.10	7.10	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1254-4	(4)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1254-5	(5)	7.80	7.80	7.80	7.80	7.80	7.80	7.70	7.90
Decachlorobiphenyl		10.24	10.24	10.24	10.23	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene		4.52	4.52	4.52	4.51	4.51	4.51	4.41	4.61
Aroclor-1268-1	(1)	8.73	8.73	8.73	8.74	8.73	8.73	8.63	8.83
Aroclor-1268-2	(2)	8.83	8.83	8.83	8.83	8.83	8.83	8.73	8.93
Aroclor-1268-3	(3)	9.06	9.06	9.06	9.06	9.06	9.06	8.96	9.16
Aroclor-1268-4	(4)	9.48	9.48	9.48	9.48	9.48	9.48	9.38	9.58
Aroclor-1268-5	(5)	9.89	9.89	9.89	9.90	9.89	9.90	9.80	10.00

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.24	10.23	10.24	10.24	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene	4.51	4.52	4.52	4.52	4.51	4.52	4.42	4.62

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP071389.D RT 750 = PP071390.D

RT 500 = PP071391.D RT 250 = PP071392.D RT 050 = PP071393.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1016-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-3	(3)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1016-4	(4)	5.13	5.13	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1016-5	(5)	5.35	5.35	5.35	5.35	5.35	5.35	5.25	5.45
Aroclor-1260-1	(1)	6.38	6.38	6.39	6.39	6.38	6.38	6.28	6.48
Aroclor-1260-2	(2)	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Aroclor-1260-3	(3)	6.73	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Aroclor-1260-4	(4)	7.20	7.20	7.20	7.20	7.20	7.20	7.10	7.30
Aroclor-1260-5	(5)	7.44	7.44	7.44	7.44	7.44	7.44	7.34	7.54
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1242-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1242-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-3	(3)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1242-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-5	(5)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1248-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1248-2	(2)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-3	(3)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-4	(4)	5.35	5.35	5.35	5.35	5.35	5.35	5.25	5.45
Aroclor-1248-5	(5)	5.74	5.74	5.74	5.74	5.74	5.74	5.64	5.84
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1254-1	(1)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1254-2	(2)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1254-3	(3)	6.25	6.26	6.25	6.26	6.26	6.26	6.16	6.36
Aroclor-1254-4	(4)	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Aroclor-1254-5	(5)	6.90	6.90	6.90	6.90	6.90	6.90	6.80	7.00
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1268-1	(1)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Aroclor-1268-2	(2)	7.79	7.79	7.79	7.79	7.79	7.79	7.69	7.89
Aroclor-1268-3	(3)	7.99	7.99	7.99	7.99	7.99	7.99	7.89	8.09
Aroclor-1268-4	(4)	8.29	8.29	8.29	8.29	8.29	8.29	8.19	8.39
Aroclor-1268-5	(5)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene	3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP071389.D **CF 750 =** PP071390.D

CF 500 = PP071391.D **CF 250 =** PP071392.D **CF 050 =** PP071393.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	64709894	67652695	70083532	71128656	61674340	67049823	6
Aroclor-1016-2	(2)	98977911	102364897	107369074	108813892	95615840	102628323	5
Aroclor-1016-3	(3)	59905708	62127143	64296308	65849928	56056440	61647105	6
Aroclor-1016-4	(4)	50563747	52419789	53619076	54941428	44946700	51298148	8
Aroclor-1016-5	(5)	47772963	49344036	50670668	50888564	42515680	48238382	7
Aroclor-1260-1	(1)	90879847	94857525	98814986	99659744	95910940	96024608	4
Aroclor-1260-2	(2)	137163459	142386411	147498372	149887700	138450980	143077384	4
Aroclor-1260-3	(3)	110350751	114445481	117702804	126515524	91505860	112104084	12
Aroclor-1260-4	(4)	105570732	110780085	111211068	131260612	105501660	112864831	9
Aroclor-1260-5	(5)	220536830	229070229	228919678	255108180	199231240	226573231	9
Decachlorobiphenyl		1409816860	1467002307	1522583160	1539948480	1300700600	1448010281	7
Tetrachloro-m-xylene		1947183160	2005072840	2066603680	2100352680	1793966200	1982635712	6
Aroclor-1242-1	(1)	53870259	55684409	58494980	58676784	47130380	54771362	9
Aroclor-1242-2	(2)	81881116	85641493	90236470	89744200	77399340	84980524	6
Aroclor-1242-3	(3)	49423643	51294363	53309060	53836868	47752740	51123335	5
Aroclor-1242-4	(4)	41638031	42855355	45034468	44656444	36858500	42208560	8
Aroclor-1242-5	(5)	44955701	46392219	48330700	47956460	43817460	46290508	4
Decachlorobiphenyl		1368547670	1421241013	1488838040	1503303480	1179092600	1392204561	9
Tetrachloro-m-xylene		1868945350	1926494133	2017272340	2030390160	1613146400	1891249677	9
Aroclor-1248-1	(1)	42447397	43370463	44490672	45736348	38649560	42938888	6
Aroclor-1248-2	(2)	57932834	60215229	62023042	63285912	58705480	60432499	4
Aroclor-1248-3	(3)	65030901	68053485	69372090	70318056	61147600	66784426	6
Aroclor-1248-4	(4)	80777360	84441085	86910244	89142916	81782860	84610893	4
Aroclor-1248-5	(5)	76029464	78502729	80776474	83552224	78380620	79448302	4
Decachlorobiphenyl		1379130770	1440268240	1485619680	1521197800	1358343200	1436911938	5
Tetrachloro-m-xylene		1879191440	1925518227	1989640420	2037603040	1811949400	1928780505	5
Aroclor-1254-1	(1)	78574372	81246615	85577334	88598188	75759400	81951182	6
Aroclor-1254-2	(2)	121624435	125816099	132146328	137115708	118678260	127076166	6
Aroclor-1254-3	(3)	123432630	127799839	132981654	137623252	117036460	127774767	6
Aroclor-1254-4	(4)	112512019	116259037	121737436	124392856	112665620	117513394	5
Aroclor-1254-5	(5)	106399089	105922557	113785120	116153044	96391680	107730298	7
Decachlorobiphenyl		1410101810	1469202520	1526389740	1549706840	1328725400	1456825262	6
Tetrachloro-m-xylene		1888241120	1936990333	2012368600	2071565920	1722515200	1926336235	7
Aroclor-1268-1	(1)	299594266	309097848	319744804	331826088	282063800	308465361	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	251109850	259047004	267960354	275856908	228123960	256419615	7
Aroclor-1268-3	(3)	211915080	218354113	225284280	231505696	216470880	220706010	4
Aroclor-1268-4	(4)	93231632	96431025	99007040	98059984	82736300	93893196	7
Aroclor-1268-5	(5)	590082071	603740247	621062448	631335032	536707900	596585540	6
Decachlorobiphenyl		2486623660	2556709627	2669414960	2694667240	2263272000	2534137497	7
Tetrachloro-m-xylene		1883977950	1931567613	1982008260	2006991440	1590966000	1879102253	9

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP071389.D **CF 750 =** PP071390.D

CF 500 = PP071391.D **CF 250 =** PP071392.D **CF 050 =** PP071393.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	48121828	49414308	53806128	56180596	60145020	53533576	9
Aroclor-1016-2	(2)	69736709	72096436	77213744	78520924	84250740	76363711	7
Aroclor-1016-3	(3)	38517048	40455577	43831736	45082616	43165080	42210411	6
Aroclor-1016-4	(4)	31206636	32814844	36123020	37095092	35190100	34485938	7
Aroclor-1016-5	(5)	39458687	41985771	45850608	46345748	48595640	44447291	8
Aroclor-1260-1	(1)	63219917	66123699	73727666	76350368	82074520	72299234	11
Aroclor-1260-2	(2)	77338708	77548395	89921718	91492956	101005300	87461415	12
Aroclor-1260-3	(3)	72062678	70944365	81698234	79344004	87888600	78387576	9
Aroclor-1260-4	(4)	57333188	56779915	65331750	68083052	68025140	63110609	9
Aroclor-1260-5	(5)	143809415	139161576	155842678	157512280	157560640	150777318	6
Decachlorobiphenyl		831147600	875337973	902319620	934998560	841460400	877052831	5
Tetrachloro-m-xylene		1380433570	1378340613	1415112020	1448341640	1420974200	1408640409	2
Aroclor-1242-1	(1)	42717527	44660211	47919806	49576672	46343800	46243603	6
Aroclor-1242-2	(2)	62346958	64901092	68295906	70279172	64290540	66022734	5
Aroclor-1242-3	(3)	34614031	35703872	38469574	40739776	32714120	36448275	9
Aroclor-1242-4	(4)	33518120	34659665	37548334	39683016	33143760	35710579	8
Aroclor-1242-5	(5)	41214500	42688541	44971456	47258656	41407120	43508055	6
Decachlorobiphenyl		815615080	851726400	897002660	917481280	766770800	849719244	7
Tetrachloro-m-xylene		1295159620	1325412680	1503876340	1432488040	1389045200	1389196376	6
Aroclor-1248-1	(1)	30996932	35945815	36538014	39256084	37796080	36106585	9
Aroclor-1248-2	(2)	43624561	47309389	48616518	53505512	51756020	48962400	8
Aroclor-1248-3	(3)	45791659	49899927	50774174	56002176	52959580	51085503	7
Aroclor-1248-4	(4)	53871444	58562581	58680784	64889280	67282380	60657294	9
Aroclor-1248-5	(5)	52150607	56290108	57608714	65271236	60133720	58290877	8
Decachlorobiphenyl		826375100	860756013	900400040	940375840	921771600	889935719	5
Tetrachloro-m-xylene		1324712230	1514156880	1548203640	1434858960	1416930600	1447772462	6
Aroclor-1254-1	(1)	81690839	87361264	89755404	97285536	100908960	91400401	8
Aroclor-1254-2	(2)	70045476	75469849	77317914	83154376	87573280	78712179	9
Aroclor-1254-3	(3)	109725744	114103376	120096818	124380164	124235440	118508308	5
Aroclor-1254-4	(4)	70169900	74068720	77810162	81877428	81901880	77165618	7
Aroclor-1254-5	(5)	92229111	96109599	104690794	107384400	106924600	101467701	7
Decachlorobiphenyl		846307500	875335867	916104900	955261880	868223800	892246789	5
Tetrachloro-m-xylene		1390553300	1501013893	1450901500	1518608160	1468503000	1465915971	3
Aroclor-1268-1	(1)	181860271	188460193	203483780	205414332	201904640	196224643	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	154801411	159518377	172755008	173272408	170561360	166181713	5
Aroclor-1268-3	(3)	128491160	133089205	143083692	144773184	135469120	136981272	5
Aroclor-1268-4	(4)	56964280	59695839	63521398	64177792	55793320	60030526	6
Aroclor-1268-5	(5)	367021219	377695863	385175068	387479012	342861840	372046600	5
Decachlorobiphenyl		1499051200	1546040093	1602790460	1652739760	1464953600	1553115023	5
Tetrachloro-m-xylene		1476470990	1445952813	1464214380	1457737600	1300882000	1429051557	5

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_P **Date(s) Analyzed:** 04/22/2025 04/22/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.72	4.62	4.82	24116800
		2	4.80	4.70	4.90	18016900
		3	4.88	4.78	4.98	56611200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.88	4.78	4.98	44912000
		2	5.40	5.30	5.50	23013000
		3	5.69	5.59	5.79	47217600
		4	5.85	5.75	5.95	23179400
		5	5.94	5.84	6.04	16145700
Aroclor-1262	500	1	8.10	8.00	8.20	144491000
		2	8.42	8.32	8.52	274186000
		3	8.74	8.64	8.84	182878000
		4	8.82	8.72	8.92	134211000
		5	9.48	9.38	9.58	88162000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_P **Date(s) Analyzed:** 04/22/2025 04/22/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.02	3.92	4.12	21995000
		2	4.11	4.01	4.21	16561700
		3	4.19	4.09	4.29	48477000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.19	4.09	4.29	38317800
		2	4.92	4.82	5.02	38187400
		3	5.09	4.99	5.19	21175200
		4	5.18	5.08	5.28	18540400
		5	5.35	5.25	5.45	19901900
Aroclor-1262	500	1	6.94	6.84	7.04	113612000
		2	7.20	7.10	7.30	92339400
		3	7.72	7.62	7.82	75694400
		4	7.79	7.69	7.89	124826000
		5	8.29	8.19	8.39	55493200

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/10/2025 04/10/2025

Continuing Calib Time: 09:24 **Initial Calibration Time(s):** 09:36 17:52

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.85	4.86	4.76	4.96	0.01
Aroclor-1016-4	(4)	4.97	4.98	4.88	5.08	0.01
Aroclor-1016-5	(5)	5.23	5.23	5.13	5.33	0.00
Aroclor-1260-1	(1)	6.27	6.27	6.17	6.37	0.00
Aroclor-1260-2	(2)	6.46	6.46	6.36	6.56	0.00
Aroclor-1260-3	(3)	6.82	6.83	6.73	6.93	0.01
Aroclor-1260-4	(4)	7.09	7.09	6.99	7.19	0.00
Aroclor-1260-5	(5)	7.33	7.33	7.23	7.43	0.00
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.73	8.73	8.63	8.83	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/10/2025 04/10/2025

Continuing Calib Time: 09:24 **Initial Calibration Time(s):** 09:36 17:52

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-4	(4)	5.00	5.00	4.90	5.10	0.00
Aroclor-1016-5	(5)	5.21	5.22	5.12	5.32	0.01
Aroclor-1260-1	(1)	6.24	6.25	6.15	6.35	0.01
Aroclor-1260-2	(2)	6.43	6.43	6.33	6.53	0.00
Aroclor-1260-3	(3)	6.58	6.59	6.49	6.69	0.01
Aroclor-1260-4	(4)	7.05	7.06	6.96	7.16	0.01
Aroclor-1260-5	(5)	7.29	7.30	7.20	7.40	0.01
Tetrachloro-m-xylene		3.68	3.69	3.59	3.79	0.01
Decachlorobiphenyl		8.68	8.68	8.58	8.78	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/10/2025 04/10/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110846.D **Time Analyzed:** 09:24

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.775	4.679	4.879	554.440	500.000	10.9
Aroclor-1016-2	4.795	4.698	4.898	558.040	500.000	11.6
Aroclor-1016-3	4.851	4.755	4.955	542.460	500.000	8.5
Aroclor-1016-4	4.971	4.875	5.075	553.630	500.000	10.7
Aroclor-1016-5	5.228	5.132	5.332	543.180	500.000	8.6
Aroclor-1260-1	6.268	6.172	6.372	535.720	500.000	7.1
Aroclor-1260-2	6.457	6.360	6.560	519.830	500.000	4.0
Aroclor-1260-3	6.824	6.729	6.929	522.530	500.000	4.5
Aroclor-1260-4	7.085	6.988	7.188	513.390	500.000	2.7
Aroclor-1260-5	7.326	7.230	7.430	515.480	500.000	3.1
Decachlorobiphenyl	8.727	8.632	8.832	47.400	50.000	-5.2
Tetrachloro-m-xylene	3.686	3.588	3.788	56.210	50.000	12.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/10/2025 04/10/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110846.D **Time Analyzed:** 09:24

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.762	4.666	4.866	520.260	500.000	4.1
Aroclor-1016-2	4.781	4.684	4.884	519.530	500.000	3.9
Aroclor-1016-3	4.956	4.860	5.060	502.490	500.000	0.5
Aroclor-1016-4	4.998	4.902	5.102	493.190	500.000	-1.4
Aroclor-1016-5	5.211	5.115	5.315	490.700	500.000	-1.9
Aroclor-1260-1	6.242	6.146	6.346	492.670	500.000	-1.5
Aroclor-1260-2	6.430	6.334	6.534	484.910	500.000	-3.0
Aroclor-1260-3	6.582	6.487	6.687	480.540	500.000	-3.9
Aroclor-1260-4	7.053	6.957	7.157	480.890	500.000	-3.8
Aroclor-1260-5	7.294	7.197	7.397	482.240	500.000	-3.6
Decachlorobiphenyl	8.679	8.584	8.784	46.500	50.000	-7.0
Tetrachloro-m-xylene	3.683	3.586	3.786	53.130	50.000	6.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/10/2025 04/10/2025

Continuing Calib Time: 15:58 **Initial Calibration Time(s):** 09:36 17:52

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.85	4.86	4.76	4.96	0.01
Aroclor-1016-4	(4)	4.97	4.98	4.88	5.08	0.01
Aroclor-1016-5	(5)	5.23	5.23	5.13	5.33	0.00
Aroclor-1260-1	(1)	6.27	6.27	6.17	6.37	0.00
Aroclor-1260-2	(2)	6.46	6.46	6.36	6.56	0.00
Aroclor-1260-3	(3)	6.83	6.83	6.73	6.93	0.01
Aroclor-1260-4	(4)	7.08	7.09	6.99	7.19	0.01
Aroclor-1260-5	(5)	7.33	7.33	7.23	7.43	0.00
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.73	8.73	8.63	8.83	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/10/2025 04/10/2025

Continuing Calib Time: 15:58 **Initial Calibration Time(s):** 09:36 17:52

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-4	(4)	5.00	5.00	4.90	5.10	0.00
Aroclor-1016-5	(5)	5.21	5.22	5.12	5.32	0.01
Aroclor-1260-1	(1)	6.24	6.25	6.15	6.35	0.01
Aroclor-1260-2	(2)	6.43	6.43	6.33	6.53	0.00
Aroclor-1260-3	(3)	6.58	6.59	6.49	6.69	0.01
Aroclor-1260-4	(4)	7.05	7.06	6.96	7.16	0.01
Aroclor-1260-5	(5)	7.29	7.30	7.20	7.40	0.01
Tetrachloro-m-xylene		3.68	3.69	3.59	3.79	0.01
Decachlorobiphenyl		8.68	8.68	8.58	8.78	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/10/2025 04/10/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110861.D **Time Analyzed:** 15:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.776	4.679	4.879	567.510	500.000	13.5
Aroclor-1016-2	4.795	4.698	4.898	567.550	500.000	13.5
Aroclor-1016-3	4.851	4.755	4.955	552.160	500.000	10.4
Aroclor-1016-4	4.972	4.875	5.075	566.160	500.000	13.2
Aroclor-1016-5	5.229	5.132	5.332	568.900	500.000	13.8
Aroclor-1260-1	6.268	6.172	6.372	552.510	500.000	10.5
Aroclor-1260-2	6.457	6.360	6.560	540.900	500.000	8.2
Aroclor-1260-3	6.825	6.729	6.929	541.450	500.000	8.3
Aroclor-1260-4	7.084	6.988	7.188	532.720	500.000	6.5
Aroclor-1260-5	7.327	7.230	7.430	535.700	500.000	7.1
Decachlorobiphenyl	8.728	8.632	8.832	49.210	50.000	-1.6
Tetrachloro-m-xylene	3.686	3.588	3.788	57.430	50.000	14.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/10/2025 04/10/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110861.D **Time Analyzed:** 15:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.763	4.666	4.866	533.100	500.000	6.6
Aroclor-1016-2	4.781	4.684	4.884	531.290	500.000	6.3
Aroclor-1016-3	4.956	4.860	5.060	513.330	500.000	2.7
Aroclor-1016-4	4.998	4.902	5.102	496.070	500.000	-0.8
Aroclor-1016-5	5.211	5.115	5.315	510.550	500.000	2.1
Aroclor-1260-1	6.242	6.146	6.346	502.200	500.000	0.4
Aroclor-1260-2	6.429	6.334	6.534	495.650	500.000	-0.9
Aroclor-1260-3	6.582	6.487	6.687	487.880	500.000	-2.4
Aroclor-1260-4	7.053	6.957	7.157	485.750	500.000	-2.9
Aroclor-1260-5	7.294	7.197	7.397	488.550	500.000	-2.3
Decachlorobiphenyl	8.679	8.584	8.784	46.590	50.000	-6.8
Tetrachloro-m-xylene	3.683	3.586	3.786	54.630	50.000	9.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/10/2025 04/10/2025

Continuing Calib Time: 22:00 **Initial Calibration Time(s):** 09:36 17:52

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.85	4.86	4.76	4.96	0.01
Aroclor-1016-4	(4)	4.97	4.98	4.88	5.08	0.01
Aroclor-1016-5	(5)	5.23	5.23	5.13	5.33	0.00
Aroclor-1260-1	(1)	6.27	6.27	6.17	6.37	0.00
Aroclor-1260-2	(2)	6.46	6.46	6.36	6.56	0.00
Aroclor-1260-3	(3)	6.83	6.83	6.73	6.93	0.01
Aroclor-1260-4	(4)	7.09	7.09	6.99	7.19	0.00
Aroclor-1260-5	(5)	7.33	7.33	7.23	7.43	0.00
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.73	8.73	8.63	8.83	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/10/2025 04/10/2025

Continuing Calib Time: 22:00 **Initial Calibration Time(s):** 09:36 17:52

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-4	(4)	5.00	5.00	4.90	5.10	0.00
Aroclor-1016-5	(5)	5.21	5.22	5.12	5.32	0.01
Aroclor-1260-1	(1)	6.24	6.25	6.15	6.35	0.01
Aroclor-1260-2	(2)	6.43	6.43	6.33	6.53	0.00
Aroclor-1260-3	(3)	6.58	6.59	6.49	6.69	0.01
Aroclor-1260-4	(4)	7.05	7.06	6.96	7.16	0.01
Aroclor-1260-5	(5)	7.30	7.30	7.20	7.40	0.00
Tetrachloro-m-xylene		3.68	3.69	3.59	3.79	0.01
Decachlorobiphenyl		8.68	8.68	8.58	8.78	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/10/2025 04/10/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110876.D **Time Analyzed:** 22:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.776	4.679	4.879	557.860	500.000	11.6
Aroclor-1016-2	4.795	4.698	4.898	559.810	500.000	12.0
Aroclor-1016-3	4.851	4.755	4.955	538.720	500.000	7.7
Aroclor-1016-4	4.971	4.875	5.075	545.640	500.000	9.1
Aroclor-1016-5	5.229	5.132	5.332	551.180	500.000	10.2
Aroclor-1260-1	6.269	6.172	6.372	518.480	500.000	3.7
Aroclor-1260-2	6.457	6.360	6.560	510.870	500.000	2.2
Aroclor-1260-3	6.825	6.729	6.929	503.660	500.000	0.7
Aroclor-1260-4	7.085	6.988	7.188	490.870	500.000	-1.8
Aroclor-1260-5	7.327	7.230	7.430	489.900	500.000	-2.0
Decachlorobiphenyl	8.728	8.632	8.832	45.530	50.000	-8.9
Tetrachloro-m-xylene	3.686	3.588	3.788	57.090	50.000	14.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/10/2025 04/10/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110876.D **Time Analyzed:** 22:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.762	4.666	4.866	524.970	500.000	5.0
Aroclor-1016-2	4.781	4.684	4.884	531.970	500.000	6.4
Aroclor-1016-3	4.957	4.860	5.060	500.250	500.000	0.1
Aroclor-1016-4	4.998	4.902	5.102	481.510	500.000	-3.7
Aroclor-1016-5	5.211	5.115	5.315	505.850	500.000	1.2
Aroclor-1260-1	6.243	6.146	6.346	482.790	500.000	-3.4
Aroclor-1260-2	6.431	6.334	6.534	475.660	500.000	-4.9
Aroclor-1260-3	6.583	6.487	6.687	468.070	500.000	-6.4
Aroclor-1260-4	7.054	6.957	7.157	461.140	500.000	-7.8
Aroclor-1260-5	7.295	7.197	7.397	461.730	500.000	-7.7
Decachlorobiphenyl	8.680	8.584	8.784	44.710	50.000	-10.6
Tetrachloro-m-xylene	3.683	3.586	3.786	54.470	50.000	8.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 10:33 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.01
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.84	5.85	5.75	5.95	0.01
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 10:33 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071599.D **Time Analyzed:** 10:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.663	5.571	5.771	514.370	500.000	2.9
Aroclor-1016-2	5.685	5.593	5.793	504.710	500.000	0.9
Aroclor-1016-3	5.747	5.654	5.854	510.290	500.000	2.1
Aroclor-1016-4	5.844	5.752	5.952	520.150	500.000	4.0
Aroclor-1016-5	6.137	6.045	6.245	506.180	500.000	1.2
Aroclor-1260-1	7.256	7.165	7.365	529.010	500.000	5.8
Aroclor-1260-2	7.509	7.418	7.618	515.870	500.000	3.2
Aroclor-1260-3	7.868	7.777	7.977	531.680	500.000	6.3
Aroclor-1260-4	8.092	8.002	8.202	513.780	500.000	2.8
Aroclor-1260-5	8.412	8.322	8.522	529.980	500.000	6.0
Decachlorobiphenyl	10.225	10.137	10.337	54.140	50.000	8.3
Tetrachloro-m-xylene	4.510	4.417	4.617	50.740	50.000	1.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071599.D **Time Analyzed:** 10:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.892	4.798	4.998	525.310	500.000	5.1
Aroclor-1016-2	4.911	4.816	5.016	530.190	500.000	6.0
Aroclor-1016-3	5.088	4.993	5.193	543.770	500.000	8.8
Aroclor-1016-4	5.130	5.036	5.236	528.260	500.000	5.7
Aroclor-1016-5	5.344	5.250	5.450	571.750	500.000	14.4
Aroclor-1260-1	6.378	6.285	6.485	556.170	500.000	11.2
Aroclor-1260-2	6.566	6.473	6.673	550.380	500.000	10.1
Aroclor-1260-3	6.720	6.627	6.827	543.580	500.000	8.7
Aroclor-1260-4	7.190	7.098	7.298	548.770	500.000	9.8
Aroclor-1260-5	7.432	7.339	7.539	538.670	500.000	7.7
Decachlorobiphenyl	8.840	8.749	8.949	53.370	50.000	6.7
Tetrachloro-m-xylene	3.808	3.712	3.912	56.790	50.000	13.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 16:29 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.10	8.10	8.00	8.20	0.00
Aroclor-1260-5	(5)	8.42	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 16:29 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.35	5.35	5.25	5.45	0.00
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.44	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL06 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071614.D **Time Analyzed:** 16:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.665	5.571	5.771	519.380	500.000	3.9
Aroclor-1016-2	5.688	5.593	5.793	509.990	500.000	2.0
Aroclor-1016-3	5.750	5.654	5.854	509.200	500.000	1.8
Aroclor-1016-4	5.847	5.752	5.952	513.170	500.000	2.6
Aroclor-1016-5	6.140	6.045	6.245	520.600	500.000	4.1
Aroclor-1260-1	7.259	7.165	7.365	536.190	500.000	7.2
Aroclor-1260-2	7.512	7.418	7.618	518.580	500.000	3.7
Aroclor-1260-3	7.870	7.777	7.977	532.700	500.000	6.5
Aroclor-1260-4	8.095	8.002	8.202	515.410	500.000	3.1
Aroclor-1260-5	8.415	8.322	8.522	534.510	500.000	6.9
Decachlorobiphenyl	10.230	10.137	10.337	54.370	50.000	8.7
Tetrachloro-m-xylene	4.512	4.417	4.617	51.110	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL06 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071614.D **Time Analyzed:** 16:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.895	4.798	4.998	517.640	500.000	3.5
Aroclor-1016-2	4.914	4.816	5.016	516.230	500.000	3.2
Aroclor-1016-3	5.090	4.993	5.193	534.980	500.000	7.0
Aroclor-1016-4	5.132	5.036	5.236	540.310	500.000	8.1
Aroclor-1016-5	5.347	5.250	5.450	579.870	500.000	16.0
Aroclor-1260-1	6.381	6.285	6.485	542.610	500.000	8.5
Aroclor-1260-2	6.569	6.473	6.673	540.120	500.000	8.0
Aroclor-1260-3	6.722	6.627	6.827	523.900	500.000	4.8
Aroclor-1260-4	7.193	7.098	7.298	538.880	500.000	7.8
Aroclor-1260-5	7.435	7.339	7.539	527.470	500.000	5.5
Decachlorobiphenyl	8.844	8.749	8.949	54.370	50.000	8.7
Tetrachloro-m-xylene	3.810	3.712	3.912	50.630	50.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 21:55 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/29/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 21:55 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.35	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL07 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071629.D **Time Analyzed:** 21:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.665	5.571	5.771	532.730	500.000	6.5
Aroclor-1016-2	5.687	5.593	5.793	523.890	500.000	4.8
Aroclor-1016-3	5.749	5.654	5.854	524.180	500.000	4.8
Aroclor-1016-4	5.846	5.752	5.952	526.580	500.000	5.3
Aroclor-1016-5	6.139	6.045	6.245	533.550	500.000	6.7
Aroclor-1260-1	7.257	7.165	7.365	548.960	500.000	9.8
Aroclor-1260-2	7.511	7.418	7.618	534.240	500.000	6.8
Aroclor-1260-3	7.870	7.777	7.977	546.610	500.000	9.3
Aroclor-1260-4	8.094	8.002	8.202	533.340	500.000	6.7
Aroclor-1260-5	8.413	8.322	8.522	548.400	500.000	9.7
Decachlorobiphenyl	10.228	10.137	10.337	55.780	50.000	11.6
Tetrachloro-m-xylene	4.511	4.417	4.617	52.610	50.000	5.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL07 **Date Analyzed:** 04/29/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071629.D **Time Analyzed:** 21:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.893	4.798	4.998	544.770	500.000	9.0
Aroclor-1016-2	4.912	4.816	5.016	551.650	500.000	10.3
Aroclor-1016-3	5.089	4.993	5.193	561.570	500.000	12.3
Aroclor-1016-4	5.130	5.036	5.236	543.490	500.000	8.7
Aroclor-1016-5	5.345	5.250	5.450	582.730	500.000	16.5
Aroclor-1260-1	6.379	6.285	6.485	545.780	500.000	9.2
Aroclor-1260-2	6.568	6.473	6.673	539.920	500.000	8.0
Aroclor-1260-3	6.721	6.627	6.827	531.780	500.000	6.4
Aroclor-1260-4	7.192	7.098	7.298	525.410	500.000	5.1
Aroclor-1260-5	7.434	7.339	7.539	525.950	500.000	5.2
Decachlorobiphenyl	8.841	8.749	8.949	54.580	50.000	9.2
Tetrachloro-m-xylene	3.809	3.712	3.912	55.200	50.000	10.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/30/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 09:07 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.01
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.01
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/30/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 09:07 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL08 **Date Analyzed:** 04/30/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071635.D **Time Analyzed:** 09:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.663	5.571	5.771	524.250	500.000	4.9
Aroclor-1016-2	5.685	5.593	5.793	518.980	500.000	3.8
Aroclor-1016-3	5.747	5.654	5.854	519.680	500.000	3.9
Aroclor-1016-4	5.845	5.752	5.952	520.190	500.000	4.0
Aroclor-1016-5	6.137	6.045	6.245	521.930	500.000	4.4
Aroclor-1260-1	7.257	7.165	7.365	512.460	500.000	2.5
Aroclor-1260-2	7.510	7.418	7.618	515.560	500.000	3.1
Aroclor-1260-3	7.869	7.777	7.977	540.890	500.000	8.2
Aroclor-1260-4	8.093	8.002	8.202	525.430	500.000	5.1
Aroclor-1260-5	8.413	8.322	8.522	539.350	500.000	7.9
Decachlorobiphenyl	10.227	10.137	10.337	55.640	50.000	11.3
Tetrachloro-m-xylene	4.510	4.417	4.617	52.180	50.000	4.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL08 **Date Analyzed:** 04/30/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071635.D **Time Analyzed:** 09:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.893	4.798	4.998	504.250	500.000	0.9
Aroclor-1016-2	4.911	4.816	5.016	513.220	500.000	2.6
Aroclor-1016-3	5.088	4.993	5.193	524.120	500.000	4.8
Aroclor-1016-4	5.130	5.036	5.236	529.500	500.000	5.9
Aroclor-1016-5	5.344	5.250	5.450	521.420	500.000	4.3
Aroclor-1260-1	6.378	6.285	6.485	509.590	500.000	1.9
Aroclor-1260-2	6.567	6.473	6.673	513.540	500.000	2.7
Aroclor-1260-3	6.720	6.627	6.827	524.100	500.000	4.8
Aroclor-1260-4	7.191	7.098	7.298	525.010	500.000	5.0
Aroclor-1260-5	7.433	7.339	7.539	529.420	500.000	5.9
Decachlorobiphenyl	8.840	8.749	8.949	54.150	50.000	8.3
Tetrachloro-m-xylene	3.808	3.712	3.912	51.900	50.000	3.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/30/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 16:11 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.68	5.69	5.59	5.79	0.01
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.84	5.85	5.75	5.95	0.01
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 04/30/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 16:11 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL09 **Date Analyzed:** 04/30/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071650.D **Time Analyzed:** 16:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.662	5.571	5.771	520.080	500.000	4.0
Aroclor-1016-2	5.683	5.593	5.793	514.850	500.000	3.0
Aroclor-1016-3	5.746	5.654	5.854	510.100	500.000	2.0
Aroclor-1016-4	5.843	5.752	5.952	517.690	500.000	3.5
Aroclor-1016-5	6.136	6.045	6.245	518.100	500.000	3.6
Aroclor-1260-1	7.255	7.165	7.365	514.390	500.000	2.9
Aroclor-1260-2	7.508	7.418	7.618	505.470	500.000	1.1
Aroclor-1260-3	7.867	7.777	7.977	530.650	500.000	6.1
Aroclor-1260-4	8.092	8.002	8.202	517.190	500.000	3.4
Aroclor-1260-5	8.411	8.322	8.522	531.830	500.000	6.4
Decachlorobiphenyl	10.225	10.137	10.337	54.080	50.000	8.2
Tetrachloro-m-xylene	4.509	4.417	4.617	51.770	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL09 **Date Analyzed:** 04/30/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071650.D **Time Analyzed:** 16:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.893	4.798	4.998	547.990	500.000	9.6
Aroclor-1016-2	4.911	4.816	5.016	546.060	500.000	9.2
Aroclor-1016-3	5.088	4.993	5.193	558.800	500.000	11.8
Aroclor-1016-4	5.130	5.036	5.236	557.840	500.000	11.6
Aroclor-1016-5	5.344	5.250	5.450	553.040	500.000	10.6
Aroclor-1260-1	6.379	6.285	6.485	543.610	500.000	8.7
Aroclor-1260-2	6.567	6.473	6.673	540.470	500.000	8.1
Aroclor-1260-3	6.720	6.627	6.827	543.100	500.000	8.6
Aroclor-1260-4	7.191	7.098	7.298	539.760	500.000	8.0
Aroclor-1260-5	7.433	7.339	7.539	541.090	500.000	8.2
Decachlorobiphenyl	8.840	8.749	8.949	54.550	50.000	9.1
Tetrachloro-m-xylene	3.808	3.712	3.912	55.400	50.000	10.8

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/10/2025 04/10/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/10/2025	09:17	PO110348.D	8.73	3.69
AR1660ICC1000	AR1660ICC1000	04/10/2025	09:36	PO110349.D	8.73	3.69
AR1660ICC750	AR1660ICC750	04/10/2025	09:54	PO110350.D	8.73	3.69
AR1660ICC500	AR1660ICC500	04/10/2025	10:13	PO110351.D	8.73	3.69
AR1660ICC250	AR1660ICC250	04/10/2025	10:31	PO110352.D	8.73	3.69
AR1660ICC050	AR1660ICC050	04/10/2025	10:49	PO110353.D	8.73	3.69
AR1221ICC500	AR1221ICC500	04/10/2025	11:08	PO110354.D	8.73	3.69
AR1232ICC500	AR1232ICC500	04/10/2025	11:26	PO110355.D	8.73	3.69
AR1242ICC1000	AR1242ICC1000	04/10/2025	11:44	PO110356.D	8.73	3.69
AR1242ICC750	AR1242ICC750	04/10/2025	12:03	PO110357.D	8.73	3.69
AR1242ICC500	AR1242ICC500	04/10/2025	12:21	PO110358.D	8.73	3.69
AR1242ICC250	AR1242ICC250	04/10/2025	12:39	PO110359.D	8.73	3.69
AR1242ICC050	AR1242ICC050	04/10/2025	12:58	PO110360.D	8.73	3.69
AR1248ICC1000	AR1248ICC1000	04/10/2025	13:16	PO110361.D	8.73	3.69
AR1248ICC750	AR1248ICC750	04/10/2025	13:35	PO110362.D	8.73	3.69
AR1248ICC500	AR1248ICC500	04/10/2025	13:53	PO110363.D	8.73	3.69
AR1248ICC250	AR1248ICC250	04/10/2025	14:11	PO110364.D	8.73	3.69
AR1248ICC050	AR1248ICC050	04/10/2025	14:30	PO110365.D	8.73	3.69
AR1254ICC1000	AR1254ICC1000	04/10/2025	14:48	PO110366.D	8.73	3.69
AR1254ICC750	AR1254ICC750	04/10/2025	15:06	PO110367.D	8.73	3.69
AR1254ICC500	AR1254ICC500	04/10/2025	15:25	PO110368.D	8.73	3.69
AR1254ICC250	AR1254ICC250	04/10/2025	15:43	PO110369.D	8.73	3.69
AR1254ICC050	AR1254ICC050	04/10/2025	16:02	PO110370.D	8.73	3.69
AR1262ICC500	AR1262ICC500	04/10/2025	16:20	PO110371.D	8.73	3.69
AR1268ICC1000	AR1268ICC1000	04/10/2025	16:38	PO110372.D	8.73	3.69
AR1268ICC750	AR1268ICC750	04/10/2025	16:57	PO110373.D	8.73	3.69
AR1268ICC500	AR1268ICC500	04/10/2025	17:15	PO110374.D	8.73	3.69
AR1268ICC250	AR1268ICC250	04/10/2025	17:33	PO110375.D	8.73	3.69
AR1268ICC050	AR1268ICC050	04/10/2025	17:52	PO110376.D	8.73	3.69
AR1660CCC500	AR1660CCC500	04/29/2025	09:24	PO110846.D	8.73	3.69
I.BLK	I.BLK	04/29/2025	10:40	PO110850.D	8.73	3.69
B-170-SB02	Q1901-05	04/29/2025	13:36	PO110856.D	8.73	3.69
AR1660CCC500	AR1660CCC500	04/29/2025	15:58	PO110861.D	8.73	3.69
I.BLK	I.BLK	04/29/2025	17:29	PO110865.D	8.73	3.69
VNJ-210MS	Q1904-01MS	04/29/2025	18:05	PO110867.D	8.73	3.68
VNJ-210MSD	Q1904-01MSD	04/29/2025	18:23	PO110868.D	8.73	3.69
FB04262025	Q1901-06	04/29/2025	20:14	PO110874.D	8.73	3.69
AR1660CCC500	AR1660CCC500	04/29/2025	22:00	PO110876.D	8.73	3.69
I.BLK	I.BLK	04/29/2025	23:31	PO110880.D	8.73	3.69
I.BLK	I.BLK	04/22/2025	10:13	PP071388.D	10.23	4.51
AR1660ICC1000	AR1660ICC1000	04/22/2025	10:29	PP071389.D	10.23	4.51
AR1660ICC750	AR1660ICC750	04/22/2025	10:45	PP071390.D	10.23	4.51

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Analytical Sequence

AR1660ICC500	AR1660ICC500	04/22/2025	11:02	PP071391.D	10.24	4.52
AR1660ICC250	AR1660ICC250	04/22/2025	11:18	PP071392.D	10.23	4.51
AR1660ICC050	AR1660ICC050	04/22/2025	11:34	PP071393.D	10.24	4.52
AR1221ICC500	AR1221ICC500	04/22/2025	11:51	PP071394.D	10.23	4.51
AR1232ICC500	AR1232ICC500	04/22/2025	12:07	PP071395.D	10.23	4.52
AR1242ICC1000	AR1242ICC1000	04/22/2025	12:23	PP071396.D	10.23	4.51
AR1242ICC750	AR1242ICC750	04/22/2025	12:39	PP071397.D	10.24	4.52
AR1242ICC500	AR1242ICC500	04/22/2025	12:56	PP071398.D	10.24	4.51
AR1242ICC250	AR1242ICC250	04/22/2025	13:12	PP071399.D	10.23	4.51
AR1242ICC050	AR1242ICC050	04/22/2025	13:28	PP071400.D	10.24	4.52
AR1248ICC1000	AR1248ICC1000	04/22/2025	13:45	PP071401.D	10.24	4.52
AR1248ICC750	AR1248ICC750	04/22/2025	14:01	PP071402.D	10.24	4.52
AR1248ICC500	AR1248ICC500	04/22/2025	14:17	PP071403.D	10.24	4.51
AR1248ICC250	AR1248ICC250	04/22/2025	14:33	PP071404.D	10.24	4.51
AR1248ICC050	AR1248ICC050	04/22/2025	14:50	PP071405.D	10.24	4.51
AR1254ICC1000	AR1254ICC1000	04/22/2025	15:06	PP071406.D	10.24	4.52
AR1254ICC750	AR1254ICC750	04/22/2025	15:22	PP071407.D	10.24	4.52
AR1254ICC500	AR1254ICC500	04/22/2025	15:38	PP071408.D	10.24	4.52
AR1254ICC250	AR1254ICC250	04/22/2025	15:55	PP071409.D	10.23	4.51
AR1254ICC050	AR1254ICC050	04/22/2025	16:11	PP071410.D	10.24	4.51
AR1262ICC500	AR1262ICC500	04/22/2025	16:27	PP071411.D	10.24	4.52
AR1268ICC1000	AR1268ICC1000	04/22/2025	16:44	PP071412.D	10.24	4.51
AR1268ICC750	AR1268ICC750	04/22/2025	17:00	PP071413.D	10.23	4.52
AR1268ICC500	AR1268ICC500	04/22/2025	17:16	PP071414.D	10.24	4.52
AR1268ICC250	AR1268ICC250	04/22/2025	17:33	PP071415.D	10.24	4.52
AR1268ICC050	AR1268ICC050	04/22/2025	17:49	PP071416.D	10.24	4.51
AR1660CCC500	AR1660CCC500	04/29/2025	10:33	PP071599.D	10.23	4.51
I.BLK	I.BLK	04/29/2025	11:40	PP071603.D	10.23	4.51
PB167776BL	PB167776BL	04/29/2025	13:30	PP071607.D	10.23	4.51
PB167776BS	PB167776BS	04/29/2025	13:46	PP071608.D	10.23	4.51
AR1660CCC500	AR1660CCC500	04/29/2025	16:29	PP071614.D	10.23	4.51
I.BLK	I.BLK	04/29/2025	17:51	PP071618.D	10.23	4.51
B-167-SB01	Q1901-02	04/29/2025	18:56	PP071622.D	10.23	4.51
B-167-SB02	Q1901-04	04/29/2025	19:12	PP071623.D	10.23	4.52
PB167782BL	PB167782BL	04/29/2025	19:29	PP071624.D	10.23	4.51
PB167782BS	PB167782BS	04/29/2025	19:45	PP071625.D	10.23	4.51
PB167782BSD	PB167782BSD	04/29/2025	20:01	PP071626.D	10.24	4.52
AR1660CCC500	AR1660CCC500	04/29/2025	21:55	PP071629.D	10.23	4.51
I.BLK	I.BLK	04/29/2025	23:17	PP071633.D	10.23	4.51
AR1660CCC500	AR1660CCC500	04/30/2025	09:07	PP071635.D	10.23	4.51
I.BLK	I.BLK	04/30/2025	10:17	PP071639.D	10.22	4.51
PB167794BL	PB167794BL	04/30/2025	12:39	PP071641.D	10.23	4.51
PB167794BS	PB167794BS	04/30/2025	12:56	PP071642.D	10.23	4.51
B-170-SB01	Q1901-03	04/30/2025	13:12	PP071643.D	10.23	4.51
MOO-25-0123-27MS	Q1910-01MS	04/30/2025	14:49	PP071648.D	10.23	4.51
MOO-25-0123-27MSD	Q1910-01MSD	04/30/2025	15:05	PP071649.D	10.23	4.51
AR1660CCC500	AR1660CCC500	04/30/2025	16:11	PP071650.D	10.23	4.51
I.BLK	I.BLK	04/30/2025	17:16	PP071654.D	10.23	4.51

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/10/2025 04/10/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/10/2025	09:17	PO110348.D	8.68	3.68
AR1660ICC1000	AR1660ICC1000	04/10/2025	09:36	PO110349.D	8.69	3.69
AR1660ICC750	AR1660ICC750	04/10/2025	09:54	PO110350.D	8.69	3.69
AR1660ICC500	AR1660ICC500	04/10/2025	10:13	PO110351.D	8.68	3.69
AR1660ICC250	AR1660ICC250	04/10/2025	10:31	PO110352.D	8.68	3.69
AR1660ICC050	AR1660ICC050	04/10/2025	10:49	PO110353.D	8.68	3.69
AR1221ICC500	AR1221ICC500	04/10/2025	11:08	PO110354.D	8.68	3.69
AR1232ICC500	AR1232ICC500	04/10/2025	11:26	PO110355.D	8.68	3.69
AR1242ICC1000	AR1242ICC1000	04/10/2025	11:44	PO110356.D	8.68	3.69
AR1242ICC750	AR1242ICC750	04/10/2025	12:03	PO110357.D	8.68	3.69
AR1242ICC500	AR1242ICC500	04/10/2025	12:21	PO110358.D	8.68	3.68
AR1242ICC250	AR1242ICC250	04/10/2025	12:39	PO110359.D	8.68	3.69
AR1242ICC050	AR1242ICC050	04/10/2025	12:58	PO110360.D	8.68	3.68
AR1248ICC1000	AR1248ICC1000	04/10/2025	13:16	PO110361.D	8.68	3.69
AR1248ICC750	AR1248ICC750	04/10/2025	13:35	PO110362.D	8.69	3.69
AR1248ICC500	AR1248ICC500	04/10/2025	13:53	PO110363.D	8.69	3.69
AR1248ICC250	AR1248ICC250	04/10/2025	14:11	PO110364.D	8.68	3.69
AR1248ICC050	AR1248ICC050	04/10/2025	14:30	PO110365.D	8.68	3.68
AR1254ICC1000	AR1254ICC1000	04/10/2025	14:48	PO110366.D	8.68	3.69
AR1254ICC750	AR1254ICC750	04/10/2025	15:06	PO110367.D	8.68	3.69
AR1254ICC500	AR1254ICC500	04/10/2025	15:25	PO110368.D	8.68	3.69
AR1254ICC250	AR1254ICC250	04/10/2025	15:43	PO110369.D	8.68	3.68
AR1254ICC050	AR1254ICC050	04/10/2025	16:02	PO110370.D	8.68	3.69
AR1262ICC500	AR1262ICC500	04/10/2025	16:20	PO110371.D	8.68	3.69
AR1268ICC1000	AR1268ICC1000	04/10/2025	16:38	PO110372.D	8.68	3.68
AR1268ICC750	AR1268ICC750	04/10/2025	16:57	PO110373.D	8.68	3.68
AR1268ICC500	AR1268ICC500	04/10/2025	17:15	PO110374.D	8.68	3.69
AR1268ICC250	AR1268ICC250	04/10/2025	17:33	PO110375.D	8.68	3.69
AR1268ICC050	AR1268ICC050	04/10/2025	17:52	PO110376.D	8.68	3.68
AR1660CCC500	AR1660CCC500	04/29/2025	09:24	PO110846.D	8.68	3.68
I.BLK	I.BLK	04/29/2025	10:40	PO110850.D	8.68	3.68
B-170-SB02	Q1901-05	04/29/2025	13:36	PO110856.D	8.68	3.68
AR1660CCC500	AR1660CCC500	04/29/2025	15:58	PO110861.D	8.68	3.68
I.BLK	I.BLK	04/29/2025	17:29	PO110865.D	8.68	3.68
VNJ-210MS	Q1904-01MS	04/29/2025	18:05	PO110867.D	8.68	3.68
VNJ-210MSD	Q1904-01MSD	04/29/2025	18:23	PO110868.D	8.68	3.68
FB04262025	Q1901-06	04/29/2025	20:14	PO110874.D	8.68	3.68
AR1660CCC500	AR1660CCC500	04/29/2025	22:00	PO110876.D	8.68	3.68
I.BLK	I.BLK	04/29/2025	23:31	PO110880.D	8.68	3.68
I.BLK	I.BLK	04/22/2025	10:13	PP071388.D	8.85	3.81
AR1660ICC1000	AR1660ICC1000	04/22/2025	10:29	PP071389.D	8.85	3.81
AR1660ICC750	AR1660ICC750	04/22/2025	10:45	PP071390.D	8.85	3.81

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Analytical Sequence

AR1660ICC500	AR1660ICC500	04/22/2025	11:02	PP071391.D	8.85	3.81
AR1660ICC250	AR1660ICC250	04/22/2025	11:18	PP071392.D	8.85	3.81
AR1660ICC050	AR1660ICC050	04/22/2025	11:34	PP071393.D	8.85	3.81
AR1221ICC500	AR1221ICC500	04/22/2025	11:51	PP071394.D	8.85	3.81
AR1232ICC500	AR1232ICC500	04/22/2025	12:07	PP071395.D	8.85	3.81
AR1242ICC1000	AR1242ICC1000	04/22/2025	12:23	PP071396.D	8.85	3.81
AR1242ICC750	AR1242ICC750	04/22/2025	12:39	PP071397.D	8.85	3.81
AR1242ICC500	AR1242ICC500	04/22/2025	12:56	PP071398.D	8.85	3.81
AR1242ICC250	AR1242ICC250	04/22/2025	13:12	PP071399.D	8.85	3.81
AR1242ICC050	AR1242ICC050	04/22/2025	13:28	PP071400.D	8.85	3.81
AR1248ICC1000	AR1248ICC1000	04/22/2025	13:45	PP071401.D	8.85	3.81
AR1248ICC750	AR1248ICC750	04/22/2025	14:01	PP071402.D	8.85	3.81
AR1248ICC500	AR1248ICC500	04/22/2025	14:17	PP071403.D	8.85	3.81
AR1248ICC250	AR1248ICC250	04/22/2025	14:33	PP071404.D	8.85	3.81
AR1248ICC050	AR1248ICC050	04/22/2025	14:50	PP071405.D	8.85	3.81
AR1254ICC1000	AR1254ICC1000	04/22/2025	15:06	PP071406.D	8.85	3.81
AR1254ICC750	AR1254ICC750	04/22/2025	15:22	PP071407.D	8.85	3.81
AR1254ICC500	AR1254ICC500	04/22/2025	15:38	PP071408.D	8.85	3.81
AR1254ICC250	AR1254ICC250	04/22/2025	15:55	PP071409.D	8.85	3.81
AR1254ICC050	AR1254ICC050	04/22/2025	16:11	PP071410.D	8.85	3.81
AR1262ICC500	AR1262ICC500	04/22/2025	16:27	PP071411.D	8.85	3.81
AR1268ICC1000	AR1268ICC1000	04/22/2025	16:44	PP071412.D	8.85	3.81
AR1268ICC750	AR1268ICC750	04/22/2025	17:00	PP071413.D	8.85	3.81
AR1268ICC500	AR1268ICC500	04/22/2025	17:16	PP071414.D	8.85	3.81
AR1268ICC250	AR1268ICC250	04/22/2025	17:33	PP071415.D	8.85	3.81
AR1268ICC050	AR1268ICC050	04/22/2025	17:49	PP071416.D	8.85	3.81
AR1660CCC500	AR1660CCC500	04/29/2025	10:33	PP071599.D	8.84	3.81
I.BLK	I.BLK	04/29/2025	11:40	PP071603.D	8.84	3.81
PB167776BL	PB167776BL	04/29/2025	13:30	PP071607.D	8.84	3.81
PB167776BS	PB167776BS	04/29/2025	13:46	PP071608.D	8.84	3.81
AR1660CCC500	AR1660CCC500	04/29/2025	16:29	PP071614.D	8.84	3.81
I.BLK	I.BLK	04/29/2025	17:51	PP071618.D	8.84	3.81
B-167-SB01	Q1901-02	04/29/2025	18:56	PP071622.D	8.84	3.81
B-167-SB02	Q1901-04	04/29/2025	19:12	PP071623.D	8.84	3.81
PB167782BL	PB167782BL	04/29/2025	19:29	PP071624.D	8.84	3.81
PB167782BS	PB167782BS	04/29/2025	19:45	PP071625.D	8.84	3.81
PB167782BSD	PB167782BSD	04/29/2025	20:01	PP071626.D	8.84	3.81
AR1660CCC500	AR1660CCC500	04/29/2025	21:55	PP071629.D	8.84	3.81
I.BLK	I.BLK	04/29/2025	23:17	PP071633.D	8.84	3.81
AR1660CCC500	AR1660CCC500	04/30/2025	09:07	PP071635.D	8.84	3.81
I.BLK	I.BLK	04/30/2025	10:17	PP071639.D	8.84	3.81
PB167794BL	PB167794BL	04/30/2025	12:39	PP071641.D	8.84	3.81
PB167794BS	PB167794BS	04/30/2025	12:56	PP071642.D	8.84	3.81
B-170-SB01	Q1901-03	04/30/2025	13:12	PP071643.D	8.84	3.81
MOO-25-0123-27MS	Q1910-01MS	04/30/2025	14:49	PP071648.D	8.84	3.81
MOO-25-0123-27MSD	Q1910-01MSD	04/30/2025	15:05	PP071649.D	8.84	3.81
AR1660CCC500	AR1660CCC500	04/30/2025	16:11	PP071650.D	8.84	3.81
I.BLK	I.BLK	04/30/2025	17:16	PP071654.D	8.84	3.81

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: VNJ-210MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: Q1904-01MS Date(s) Analyzed: 04/29/2025 04/29/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO110867.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.774	4.724	4.824	205		
	2	4.793	4.743	4.843	206		
	3	4.85	4.8	4.9	201		
COLUMN 1	4	4.97	4.92	5.02	204		
	5	5.227	5.177	5.277	187	201	
	1	4.762	4.712	4.812	201		
	2	4.781	4.731	4.831	195		
	3	4.956	4.906	5.006	185		
	4	4.998	4.948	5.048	179		
COLUMN 2	5	5.21	5.16	5.26	169	186	7.75
Aroclor-1260	1	6.267	6.217	6.317	216		
	2	6.456	6.406	6.506	195		
	3	6.823	6.773	6.873	166		
COLUMN 1	4	7.083	7.033	7.133	182		
	5	7.326	7.276	7.376	173	187	
	1	6.242	6.192	6.292	201		
	2	6.429	6.379	6.479	176		
	3	6.582	6.532	6.632	181		
	4	7.053	7.003	7.103	165		
COLUMN 2	5	7.295	7.245	7.345	161	177	5.49

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

VNJ-210MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: Q1904-01MSD Date(s) Analyzed: 04/29/2025 04/29/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO110868.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.776	4.726	4.826	206		
	2	4.795	4.745	4.845	203		
	3	4.851	4.801	4.901	202		
COLUMN 1	4	4.971	4.921	5.021	202		
	5	5.229	5.179	5.279	184	199	
	1	4.762	4.712	4.812	198		
	2	4.781	4.731	4.831	194		
	3	4.957	4.907	5.007	183		
	4	4.999	4.949	5.049	174		
COLUMN 2	5	5.211	5.161	5.261	169	184	7.83
Aroclor-1260	1	6.268	6.218	6.318	214		
	2	6.458	6.408	6.508	192		
	3	6.825	6.775	6.875	163		
COLUMN 1	4	7.085	7.035	7.135	177		
	5	7.327	7.277	7.377	169	183	
	1	6.242	6.192	6.292	196		
	2	6.43	6.38	6.48	172		
	3	6.583	6.533	6.633	180		
	4	7.053	7.003	7.103	162		
COLUMN 2	5	7.294	7.244	7.344	157	174	5.04

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB167776BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167776BS Date(s) Analyzed: 04/29/2025 04/29/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071608.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.667	5.617	5.717	143		
	2	5.689	5.639	5.739	147		
	3	5.752	5.702	5.802	143		
COLUMN 1	4	5.849	5.799	5.899	147		
	5	6.141	6.091	6.191	141	144	
	1	4.894	4.844	4.944	154		
	2	4.912	4.862	4.962	158		
	3	5.09	5.04	5.14	158		
	4	5.131	5.081	5.181	156		
COLUMN 2	5	5.345	5.295	5.395	154	156	8
Aroclor-1260	1	7.26	7.21	7.31	150		
	2	7.513	7.463	7.563	151		
	3	7.872	7.822	7.922	133		
COLUMN 1	4	8.097	8.047	8.147	140		
	5	8.416	8.366	8.466	140	143	
	1	6.38	6.33	6.43	165		
	2	6.569	6.519	6.619	165		
	3	6.721	6.671	6.771	166		
	4	7.192	7.142	7.242	146		
COLUMN 2	5	7.434	7.384	7.484	142	157	9.33

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB167782BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167782BS Date(s) Analyzed: 04/29/2025 04/29/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071625.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.666	5.616	5.716	4.22		
	2	5.688	5.638	5.738	4.26		
	3	5.75	5.7	5.8	4.19		
COLUMN 1	4	5.847	5.797	5.897	4.22		
	5	6.141	6.091	6.191	4.09	4.20	
	1	4.895	4.845	4.945	4.10		
	2	4.913	4.863	4.963	4.18		
	3	5.09	5.04	5.14	4.22		
	4	5.132	5.082	5.182	4.20		
COLUMN 2	5	5.346	5.296	5.396	4.27	4.20	0
Aroclor-1260	1	7.259	7.209	7.309	4.33		
	2	7.512	7.462	7.562	4.39		
	3	7.872	7.822	7.922	3.88		
COLUMN 1	4	8.096	8.046	8.146	4.07		
	5	8.416	8.366	8.466	4.01	4.10	
	1	6.38	6.33	6.43	4.77		
	2	6.569	6.519	6.619	4.78		
	3	6.721	6.671	6.771	4.83		
	4	7.193	7.143	7.243	4.30		
COLUMN 2	5	7.434	7.384	7.484	4.23	4.60	11.49

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB167782BSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167782BSD Date(s) Analyzed: 04/29/2025 04/29/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071626.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.668	5.618	5.718	4.33		
	2	5.69	5.64	5.74	4.33		
	3	5.752	5.702	5.802	4.29		
COLUMN 1	4	5.849	5.799	5.899	4.32		
	5	6.142	6.092	6.192	4.15	4.30	
	1	4.896	4.846	4.946	4.41		
	2	4.914	4.864	4.964	4.40		
	3	5.091	5.041	5.141	4.47		
	4	5.133	5.083	5.183	4.41		
COLUMN 2	5	5.347	5.297	5.397	4.30	4.40	2.3
Aroclor-1260	1	7.262	7.212	7.312	4.40		
	2	7.516	7.466	7.566	4.45		
	3	7.874	7.824	7.924	3.95		
COLUMN 1	4	8.098	8.048	8.148	4.18		
	5	8.419	8.369	8.469	4.10	4.20	
	1	6.381	6.331	6.431	4.38		
	2	6.57	6.52	6.62	4.35		
	3	6.723	6.673	6.773	4.43		
	4	7.194	7.144	7.244	3.97		
COLUMN 2	5	7.436	7.386	7.486	3.93	4.20	0

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB167794BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167794BS Date(s) Analyzed: 04/30/2025 04/30/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071642.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.665	5.615	5.715	149		
	2	5.687	5.637	5.737	149		
	3	5.749	5.699	5.799	149		
COLUMN 1	4	5.846	5.796	5.896	150		
	5	6.139	6.089	6.189	143	148	
	1	4.892	4.842	4.942	147		
	2	4.911	4.861	4.961	149		
	3	5.088	5.038	5.138	153		
	4	5.129	5.079	5.179	152		
COLUMN 2	5	5.344	5.294	5.394	150	150	1.34
Aroclor-1260	1	7.258	7.208	7.308	151		
	2	7.512	7.462	7.562	154		
	3	7.87	7.82	7.92	134		
COLUMN 1	4	8.095	8.045	8.145	140		
	5	8.415	8.365	8.465	141	144	
	1	6.378	6.328	6.428	161		
	2	6.567	6.517	6.617	160		
	3	6.719	6.669	6.769	160		
	4	7.191	7.141	7.241	143		
COLUMN 2	5	7.432	7.382	7.482	140	153	6.06

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

MOO-25-0123-27MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: Q1910-01MS Date(s) Analyzed: 04/30/2025 04/30/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071648.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.665	5.615	5.715	151		
	2	5.688	5.638	5.738	152		
	3	5.749	5.699	5.799	146		
COLUMN 1	4	5.844	5.794	5.894	243		
	5	6.139	6.089	6.189	136	166	
	1	4.892	4.842	4.942	157		
	2	4.911	4.861	4.961	159		
	3	5.087	5.037	5.137	132		
	4	5.129	5.079	5.179	138		
COLUMN 2	5	5.343	5.293	5.393	164	150	10.13
Aroclor-1260	1	7.258	7.208	7.308	181		
	2	7.512	7.462	7.562	394		
	3	7.87	7.82	7.92	149		
COLUMN 1	4	8.094	8.044	8.144	155		
	5	8.414	8.364	8.464	148	206	
	1	6.378	6.328	6.428	173		
	2	6.566	6.516	6.616	178		
	3	6.719	6.669	6.769	191		
	4	7.19	7.14	7.24	176		
COLUMN 2	5	7.432	7.382	7.482	155	175	16.27

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

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

MOO-25-0123-27MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: Q1910-01MSD Date(s) Analyzed: 04/30/2025 04/30/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071649.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.663	5.613	5.713	145		
	2	5.685	5.635	5.735	145		
	3	5.747	5.697	5.797	139		
COLUMN 1	4	5.84	5.79	5.89	269		
	5	6.135	6.085	6.185	156	171	
	1	4.894	4.844	4.944	143		
	2	4.912	4.862	4.962	149		
	3	5.089	5.039	5.139	118		
	4	5.131	5.081	5.181	130		
COLUMN 2	5	5.345	5.295	5.395	147	137	22.08
Aroclor-1260	1	7.256	7.206	7.306	201		
	2	7.51	7.46	7.56	490		
	3	7.868	7.818	7.918	155		
COLUMN 1	4	8.091	8.041	8.141	154		
	5	8.413	8.363	8.463	153	231	
	1	6.379	6.329	6.429	171		
	2	6.568	6.518	6.618	179		
	3	6.721	6.671	6.771	191		
	4	7.192	7.142	7.242	188		
COLUMN 2	5	7.434	7.384	7.484	159	178	25.92

SAMPLE RAW DATA

Sample Results: **PP071622.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 18:56
Operator : YP\AJ
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.510	3.810	41899630	32874432	21.133m	23.338
2)	SA Decachlor...	10.228	8.843	29611632	18791478	20.450	21.426
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

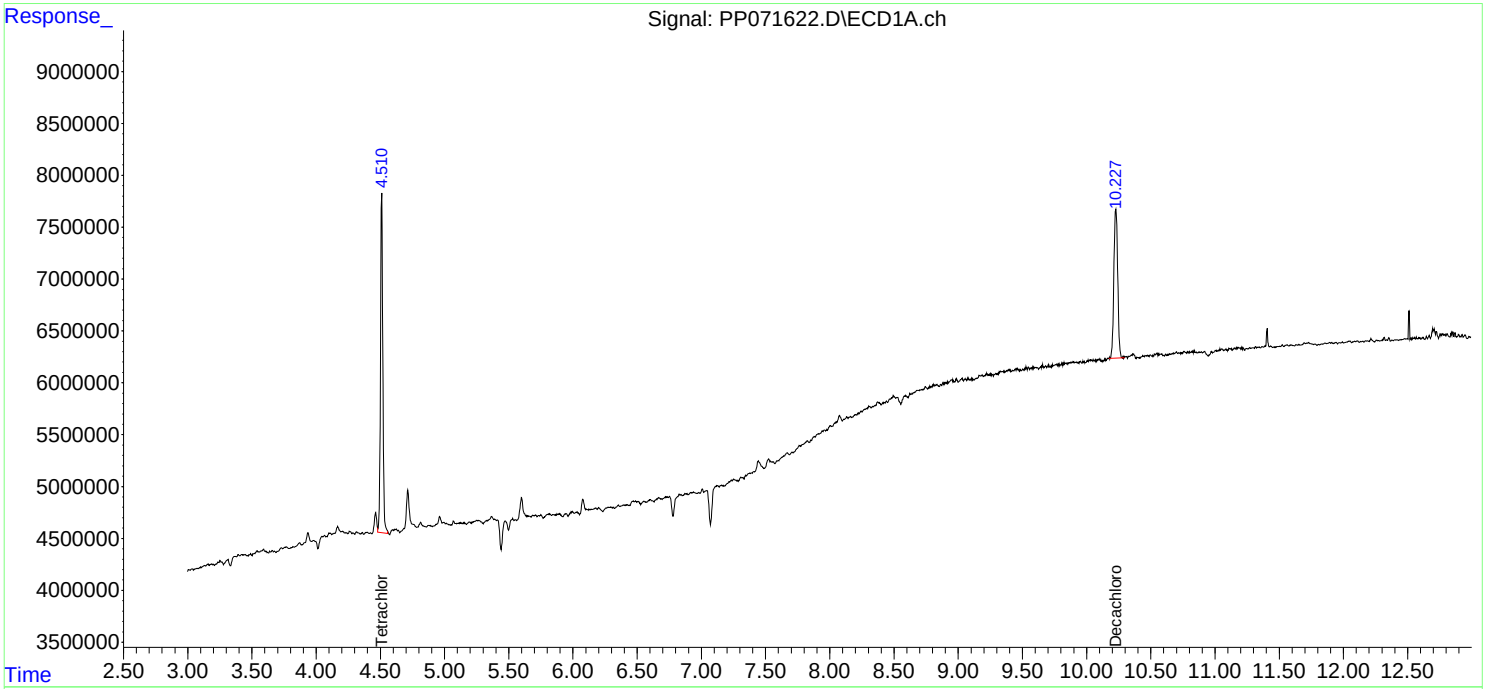
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 18:56
Operator : YP\AJ
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

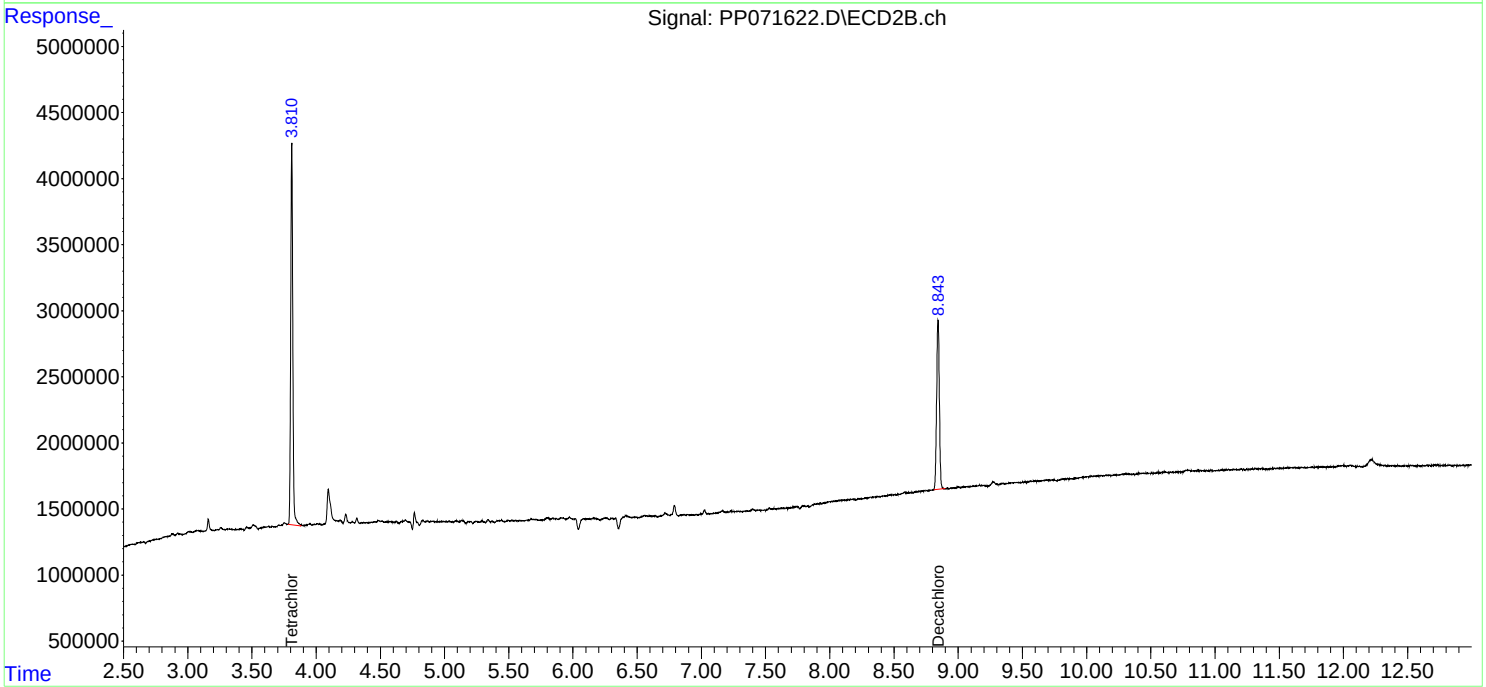
Instrument :
ECD_P
ClientSampleId :
B-167-SB01

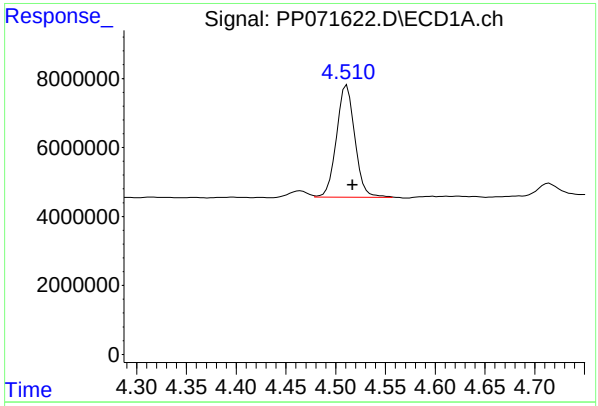
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







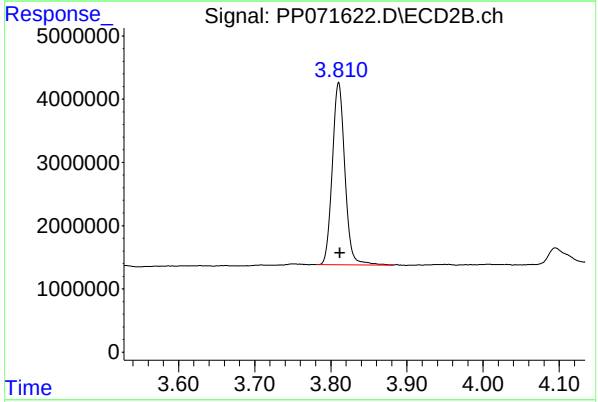
#1 Tetrachloro-m-xylene

R.T.: 4.510 min
Delta R.T.: -0.007 min
Response: 41899630
Conc: 21.13 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-167-SB01

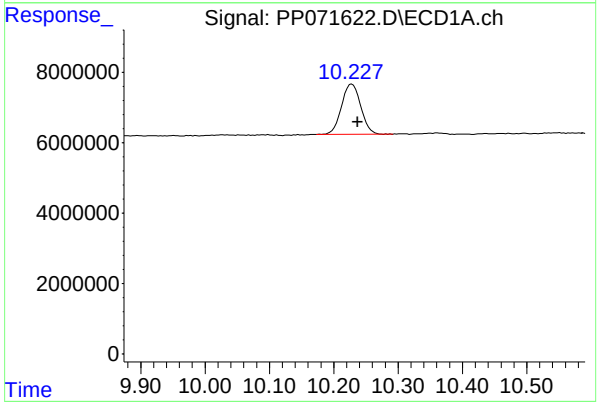
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025



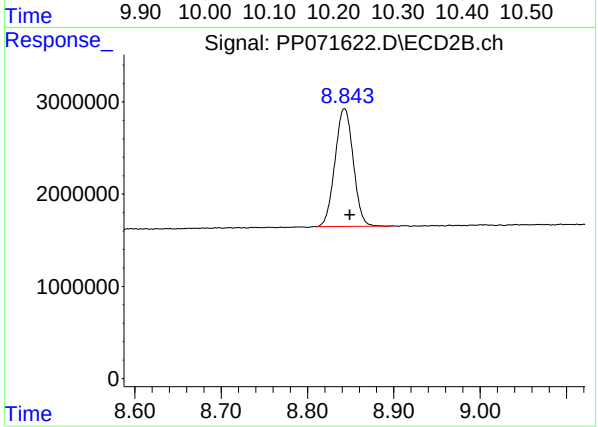
#1 Tetrachloro-m-xylene

R.T.: 3.810 min
Delta R.T.: -0.002 min
Response: 32874432
Conc: 23.34 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.228 min
Delta R.T.: -0.009 min
Response: 29611632
Conc: 20.45 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.843 min
Delta R.T.: -0.006 min
Response: 18791478
Conc: 21.43 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071643.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 13:12
Operator : YP\AJ
Sample : Q1901-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 13:39:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.511	3.808	34910594	28602757	17.608m	20.305
2)	SA Decachlor...	10.229	8.840	22584558	15464618	15.597	17.632
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071643.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 13:12
Operator : YP\AJ
Sample : Q1901-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

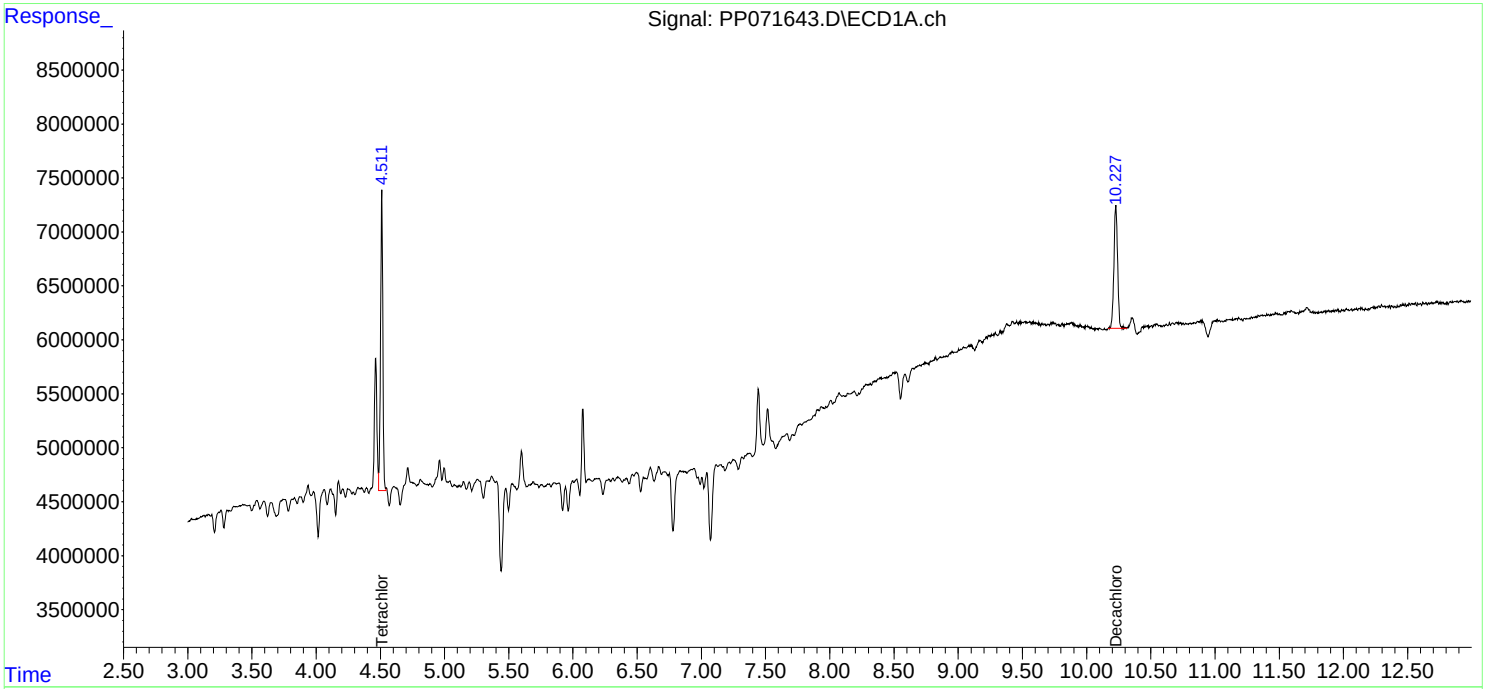
Instrument :
ECD_P
ClientSampleId :
B-170-SB01

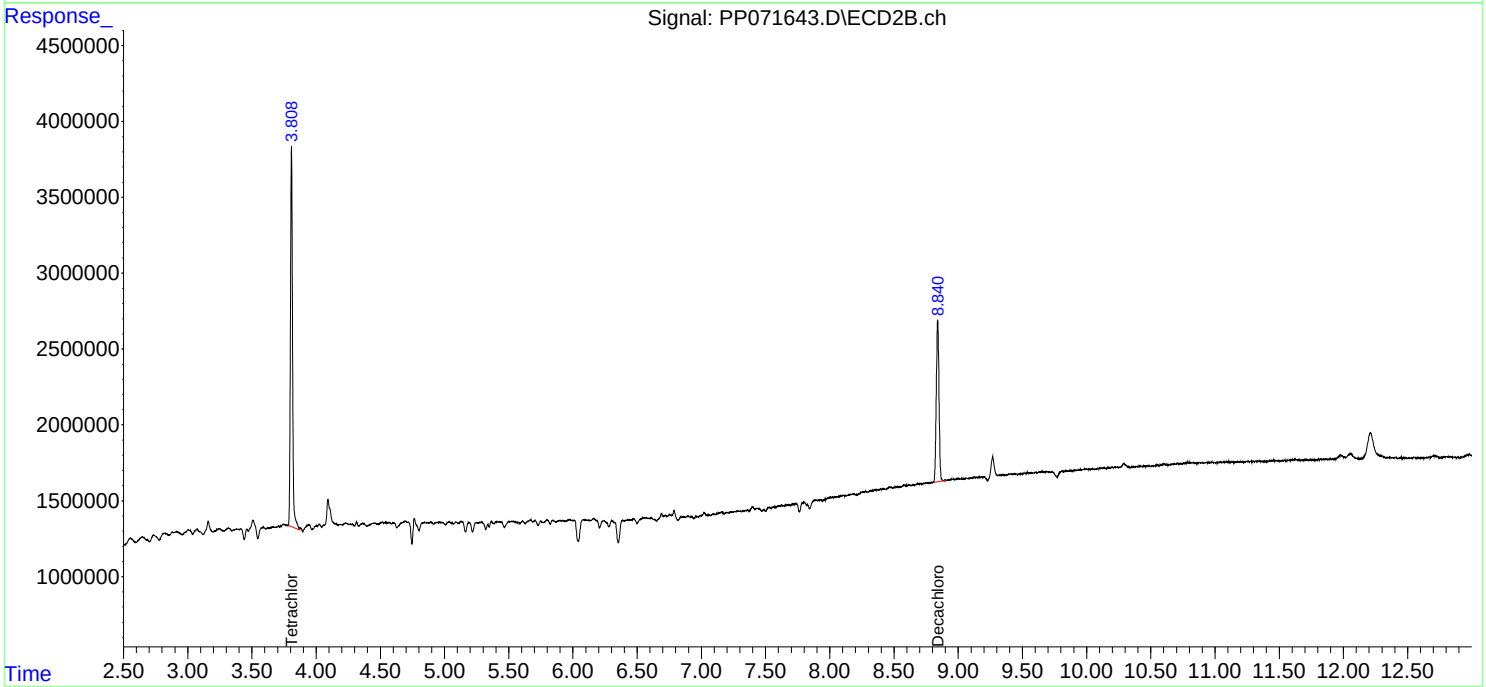
Manual Integrations APPROVED

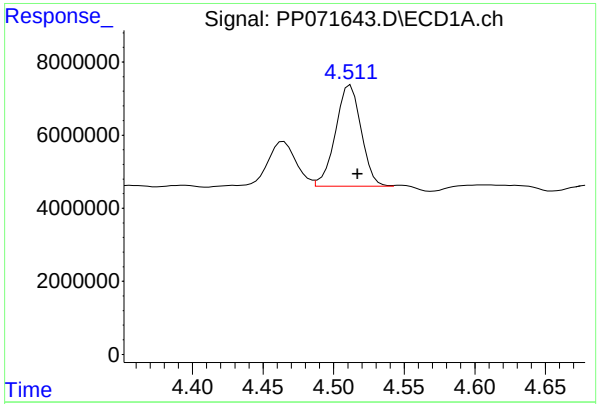
Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 13:39:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







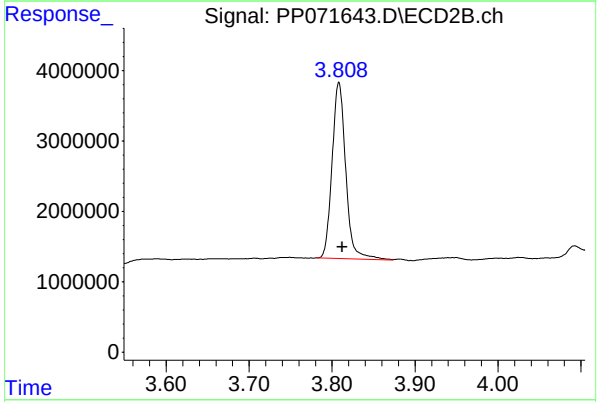
#1 Tetrachloro-m-xylene

R.T.: 4.511 min
Delta R.T.: -0.006 min
Response: 34910594
Conc: 17.61 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-170-SB01

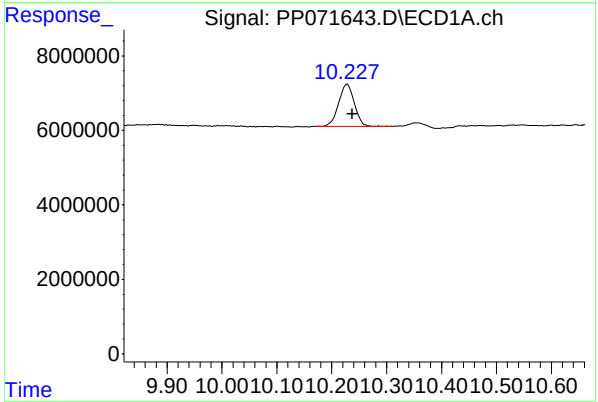
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025



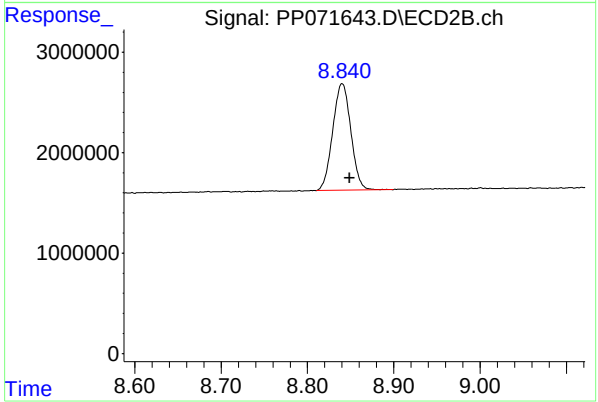
#1 Tetrachloro-m-xylene

R.T.: 3.808 min
Delta R.T.: -0.004 min
Response: 28602757
Conc: 20.31 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.229 min
Delta R.T.: -0.009 min
Response: 22584558
Conc: 15.60 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.840 min
Delta R.T.: -0.009 min
Response: 15464618
Conc: 17.63 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 19:12
Operator : YP\AJ
Sample : Q1901-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.515	3.811	35135762	28243413	17.722	20.050
2)	SA Decachlor...	10.233	8.844	17830115	11812856	12.314	13.469
	Target Compounds						

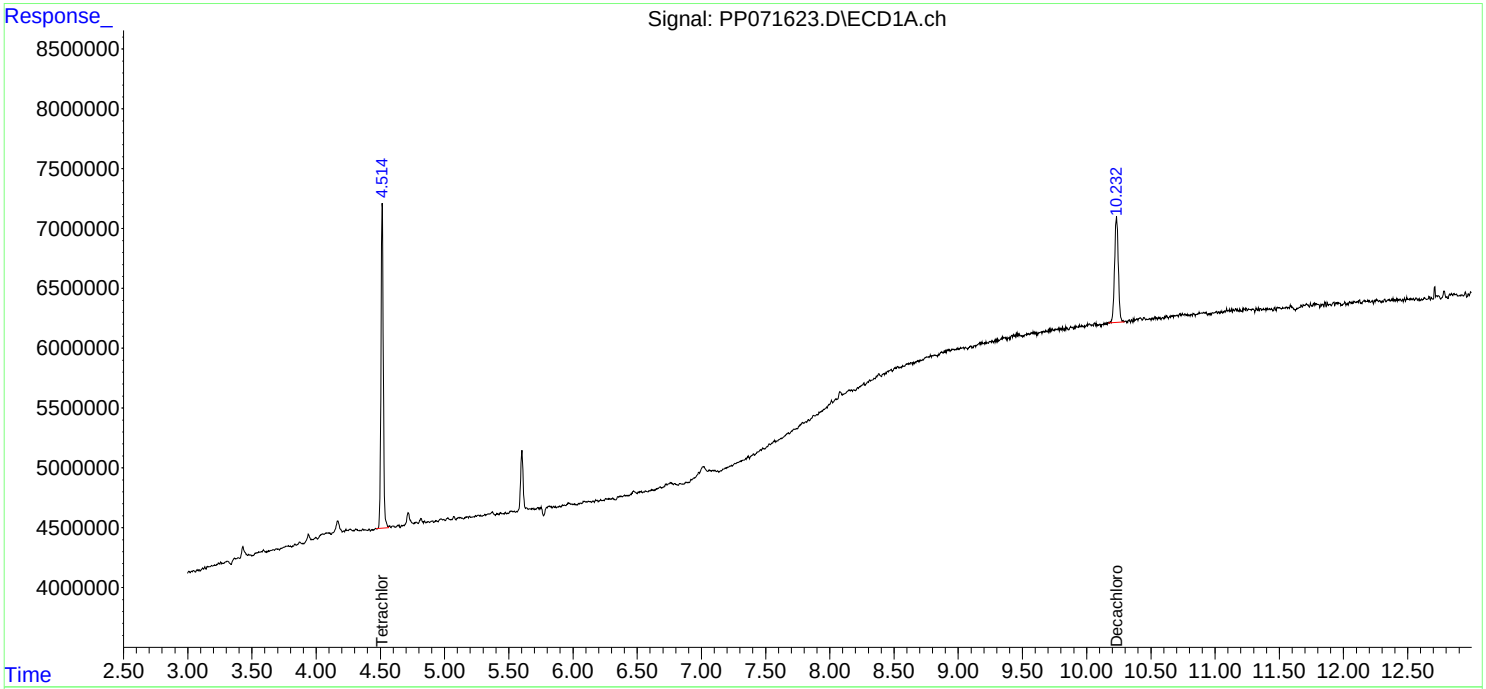
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

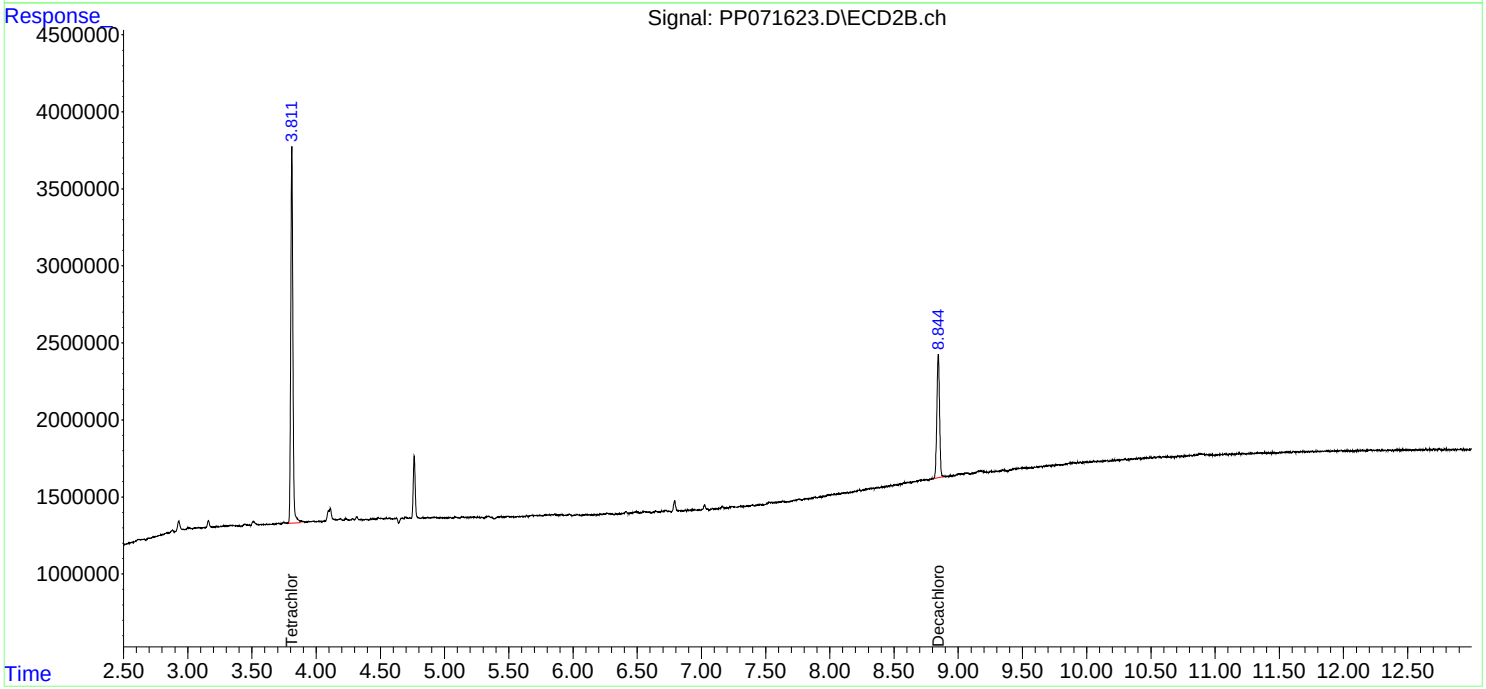
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 19:12
Operator : YP\AJ
Sample : Q1901-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

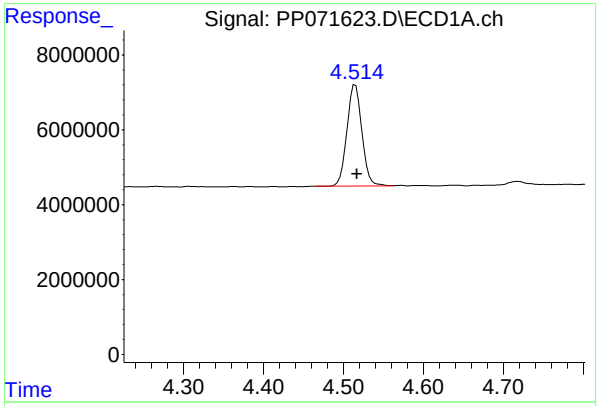
Instrument :
ECD_P
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



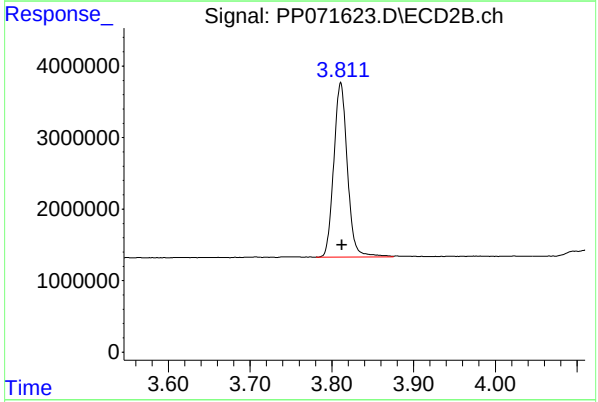




#1 Tetrachloro-m-xylene

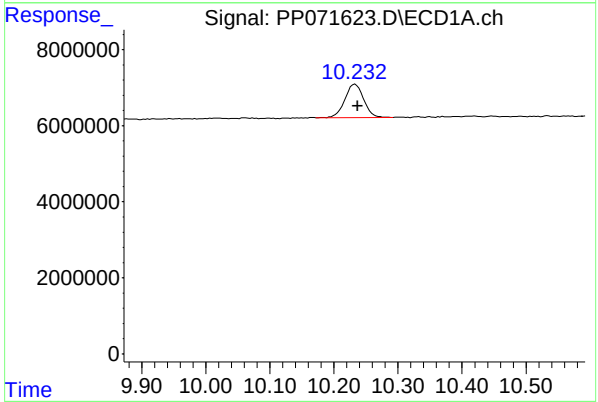
R.T.: 4.515 min
Delta R.T.: -0.002 min
Response: 35135762
Conc: 17.72 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-167-SB02



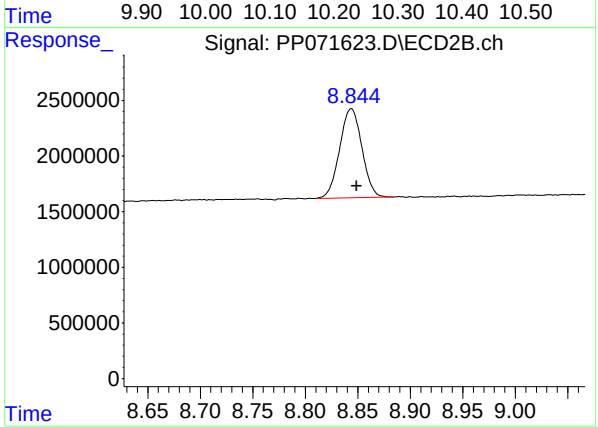
#1 Tetrachloro-m-xylene

R.T.: 3.811 min
Delta R.T.: -0.001 min
Response: 28243413
Conc: 20.05 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.233 min
Delta R.T.: -0.004 min
Response: 17830115
Conc: 12.31 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.844 min
Delta R.T.: -0.005 min
Response: 11812856
Conc: 13.47 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110856.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:36
Operator : YP/AJ
Sample : Q1901-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.685	3.682	215.1E6	111.2E6	24.590	22.280
2)	SA Decachlor...	8.726	8.678	165.0E6	40407910	20.895	20.991
	Target Compounds						

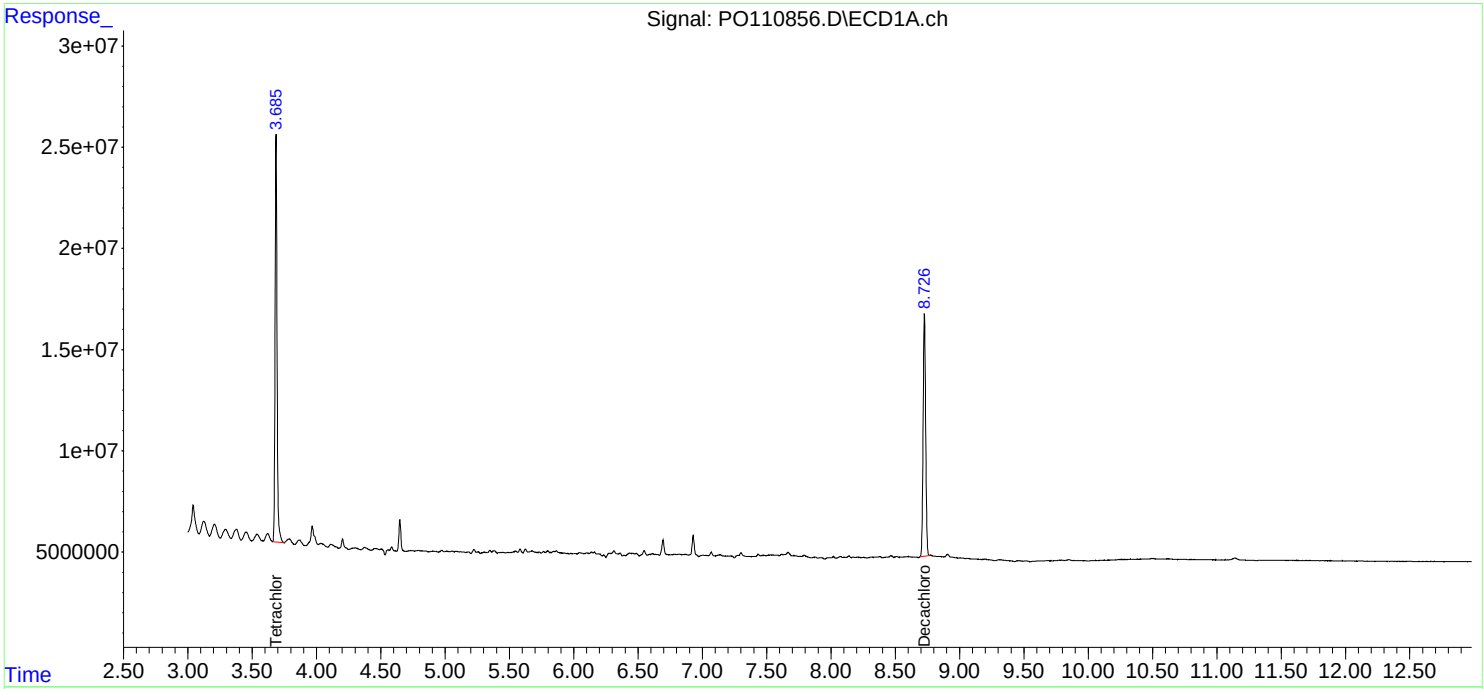
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

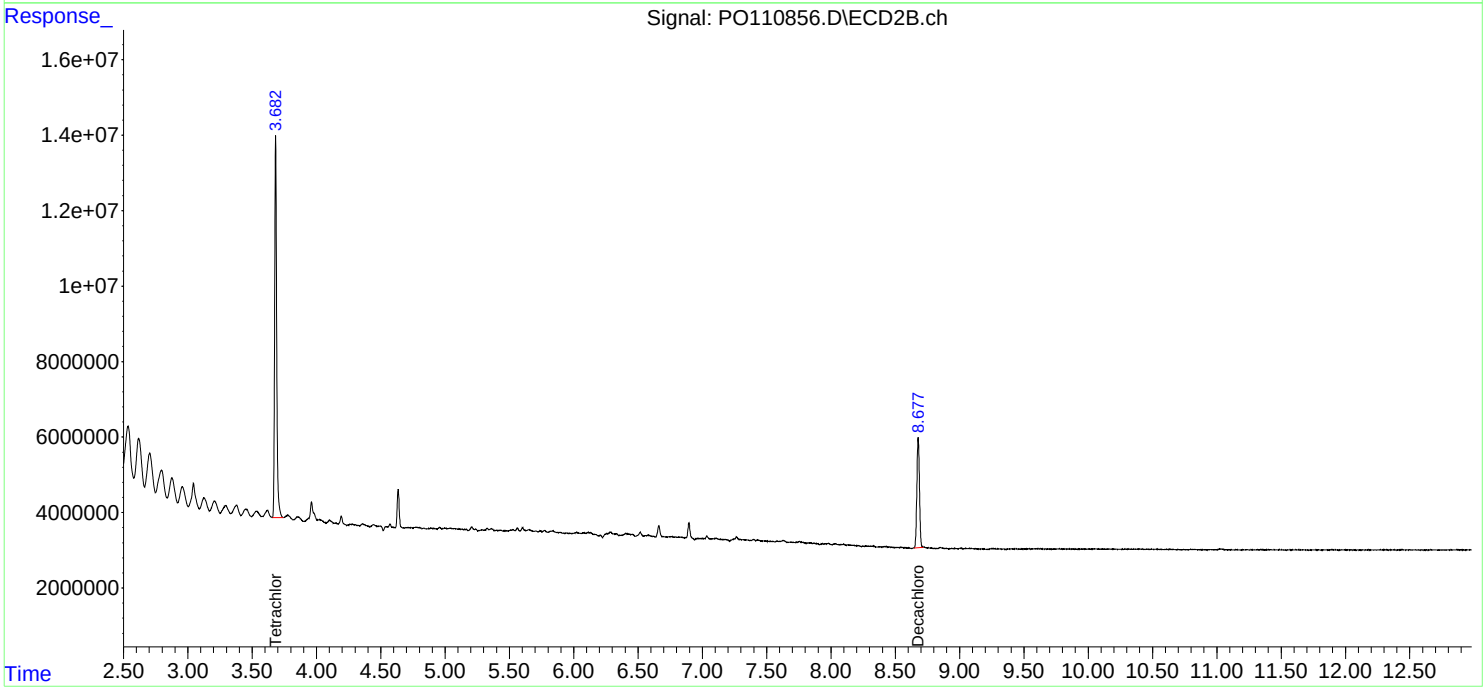
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110856.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:36
Operator : YP/AJ
Sample : Q1901-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

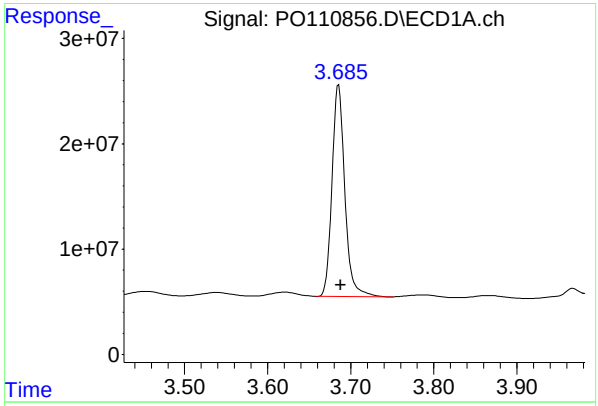
Instrument :
ECD_O
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



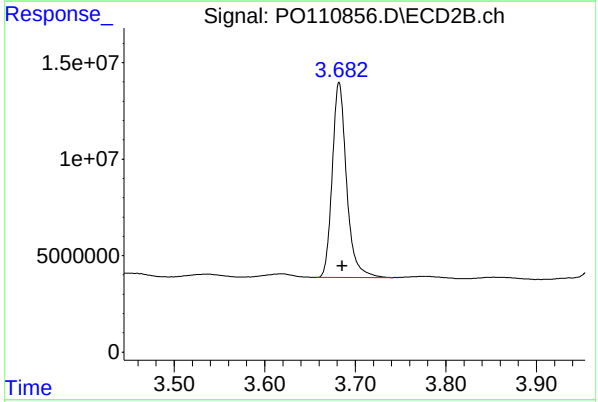




#1 Tetrachloro-m-xylene

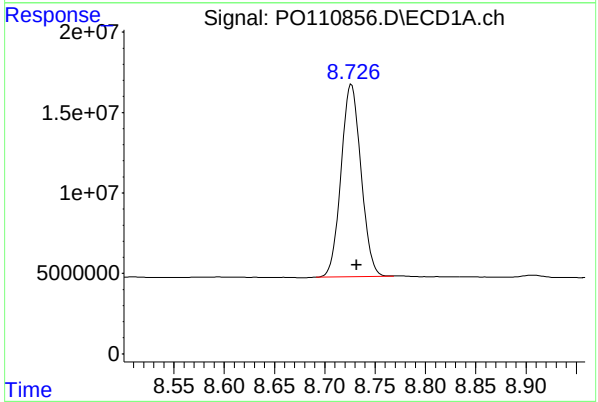
R.T.: 3.685 min
Delta R.T.: -0.003 min
Response: 215137538
Conc: 24.59 ng/ml

Instrument :
ECD_O
ClientSampleId :
B-170-SB02



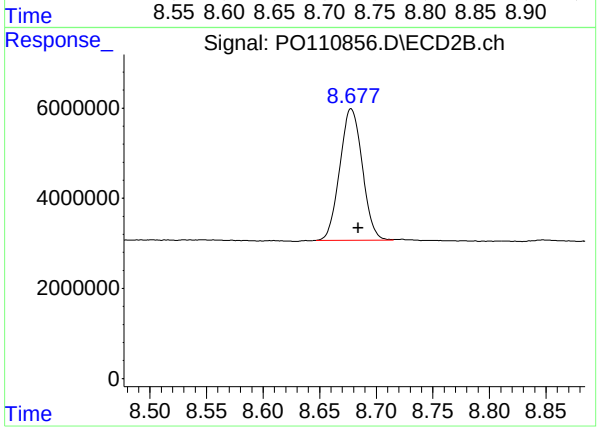
#1 Tetrachloro-m-xylene

R.T.: 3.682 min
Delta R.T.: -0.004 min
Response: 111172147
Conc: 22.28 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.726 min
Delta R.T.: -0.005 min
Response: 164968971
Conc: 20.90 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.678 min
Delta R.T.: -0.006 min
Response: 40407910
Conc: 20.99 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110874.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 20:14
Operator : YP/AJ
Sample : Q1901-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
FB04262025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:29:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.687	3.684	212.0E6	106.2E6	24.235	21.287
2)	SA Decachlor...	8.728	8.680	128.2E6	33132538	16.242	17.212
	Target Compounds						

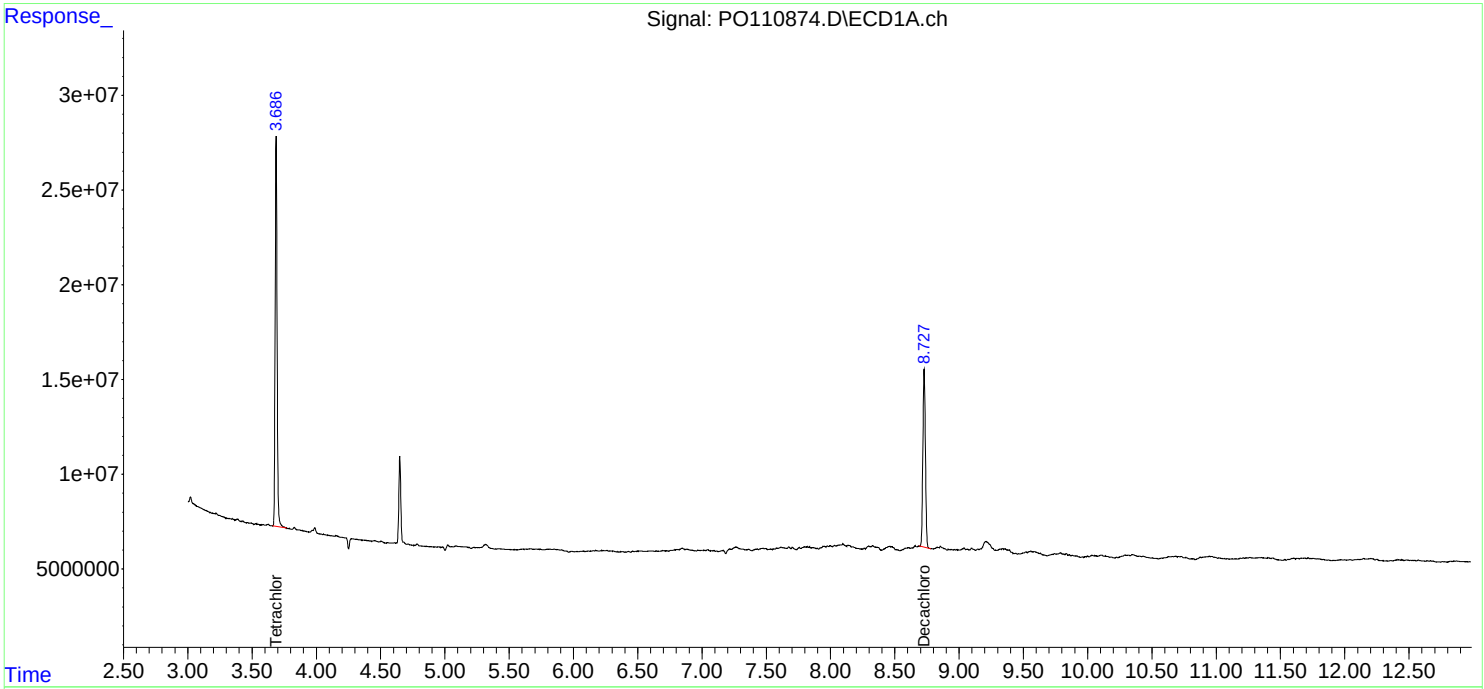
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

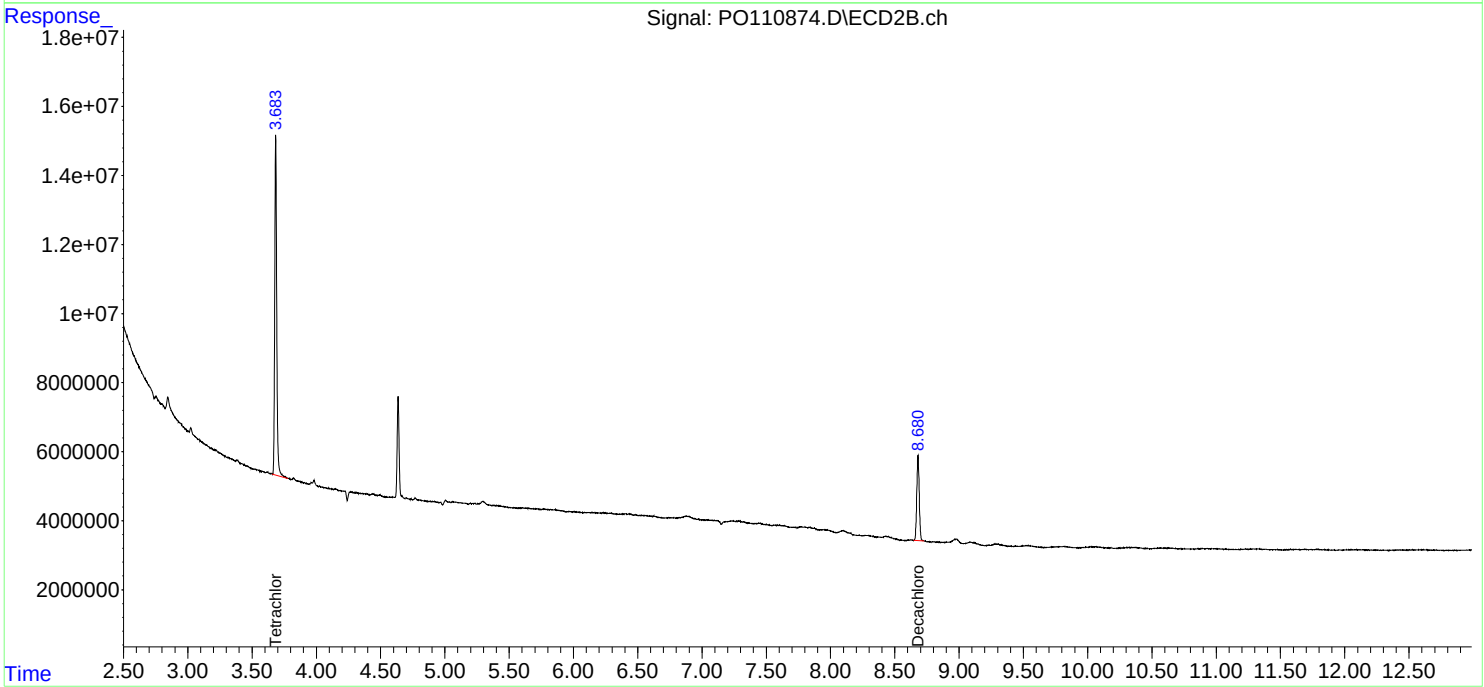
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110874.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 20:14
Operator : YP/AJ
Sample : Q1901-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

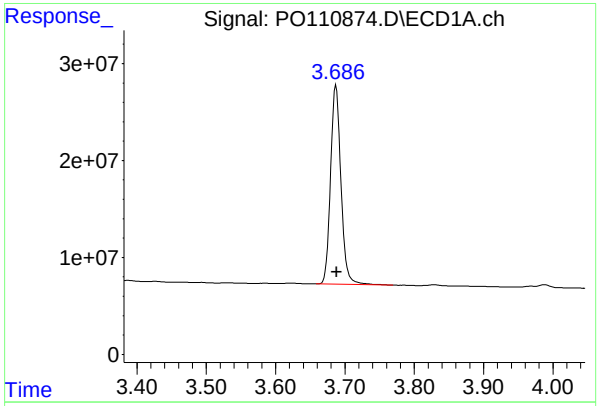
Instrument :
ECD_O
ClientSampleId :
FB04262025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:29:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



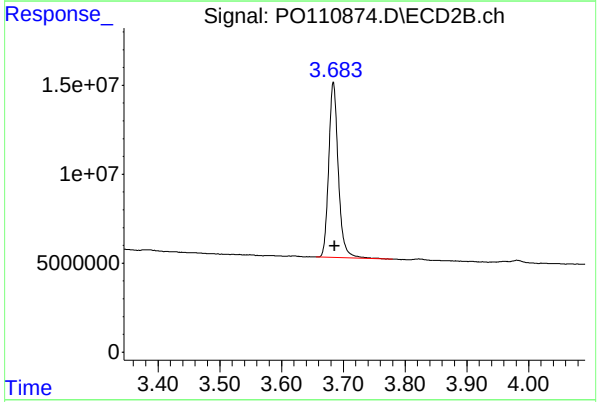




#1 Tetrachloro-m-xylene

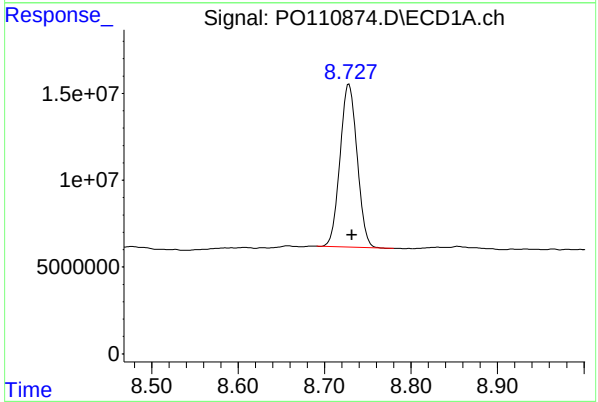
R.T.: 3.687 min
Delta R.T.: -0.001 min
Response: 212031100
Conc: 24.23 ng/ml

Instrument :
ECD_O
ClientSampleId :
FB04262025



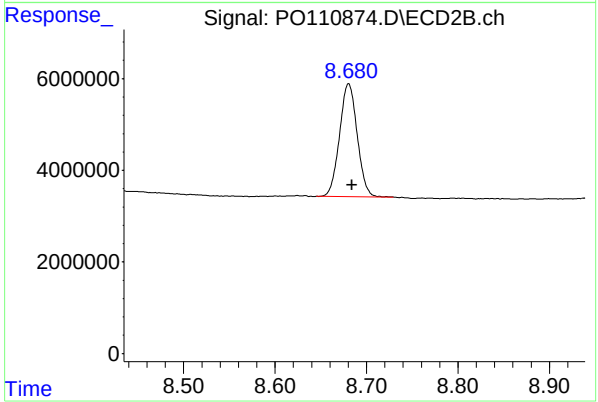
#1 Tetrachloro-m-xylene

R.T.: 3.684 min
Delta R.T.: -0.002 min
Response: 106215092
Conc: 21.29 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.728 min
Delta R.T.: -0.004 min
Response: 128232854
Conc: 16.24 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.680 min
Delta R.T.: -0.004 min
Response: 33132538
Conc: 17.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110856.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:36
Operator : YP/AJ
Sample : Q1904-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.685	3.682	215.1E6	111.2E6	24.590	22.280
2)	SA Decachlor...	8.726	8.678	165.0E6	40407910	20.895	20.991
	Target Compounds						

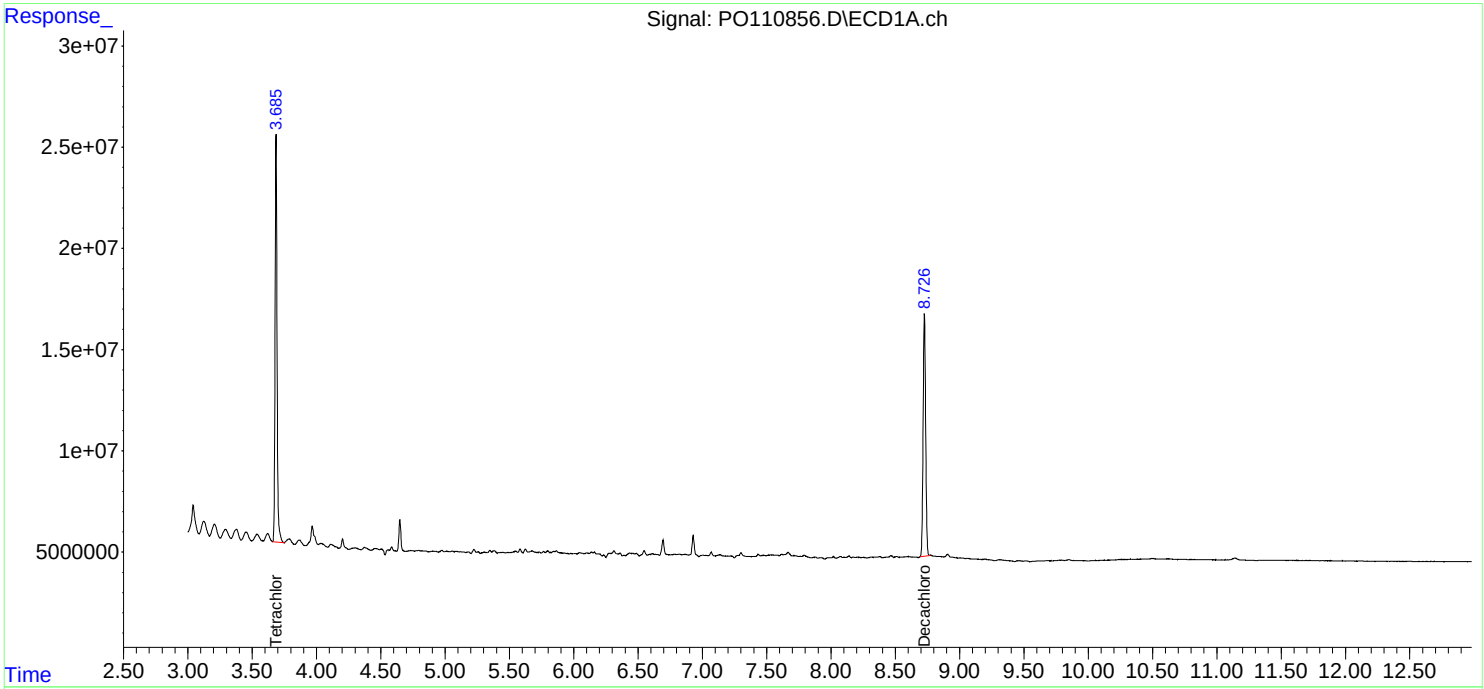
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

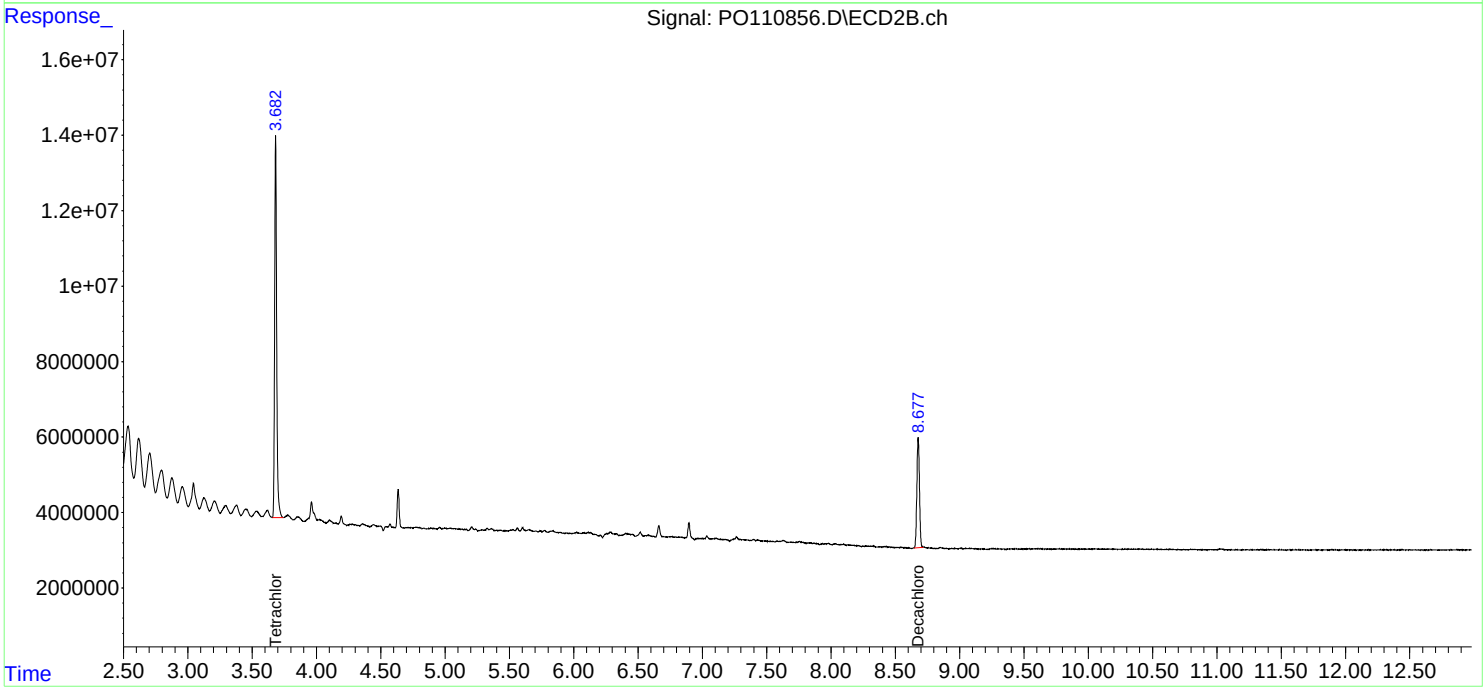
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110856.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:36
Operator : YP/AJ
Sample : Q1904-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

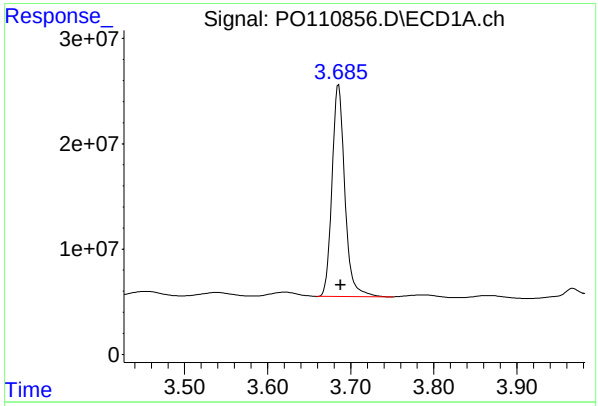
Instrument :
ECD_O
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



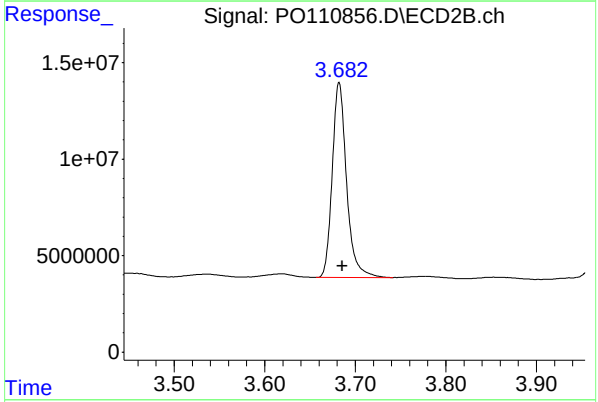




#1 Tetrachloro-m-xylene

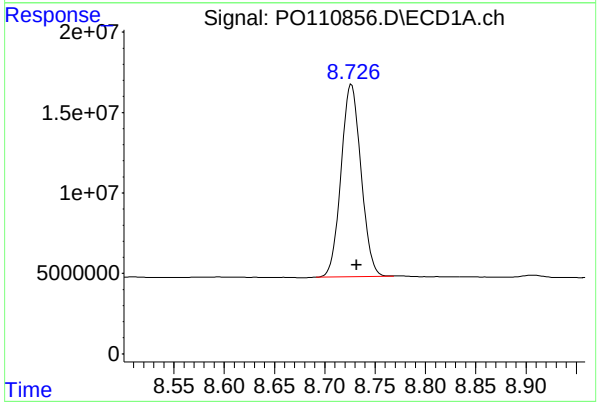
R.T.: 3.685 min
Delta R.T.: -0.003 min
Response: 215137538
Conc: 24.59 ng/ml

Instrument :
ECD_O
ClientSampleId :
B-170-SB02



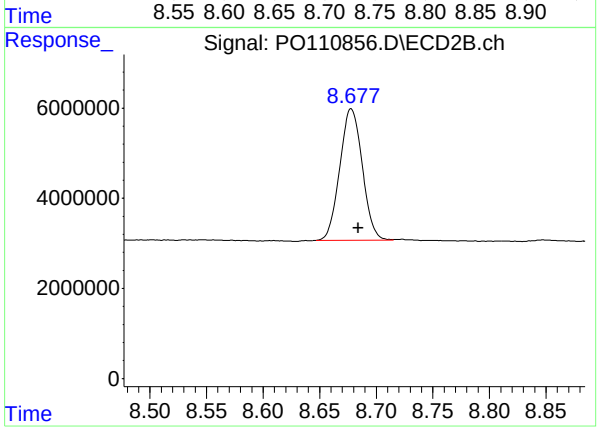
#1 Tetrachloro-m-xylene

R.T.: 3.682 min
Delta R.T.: -0.004 min
Response: 111172147
Conc: 22.28 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.726 min
Delta R.T.: -0.005 min
Response: 164968971
Conc: 20.90 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.678 min
Delta R.T.: -0.006 min
Response: 40407910
Conc: 20.99 ng/ml

Quantitation Report (QT Reviewed)

Sample Results: **PP071607.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:30
Operator : YP\AJ
Sample : PB167776BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167776BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.512	3.810	37143611	28071621	18.734	19.928
2)	SA Decachlor...	10.229	8.841	28176247	18467203	19.459	21.056
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

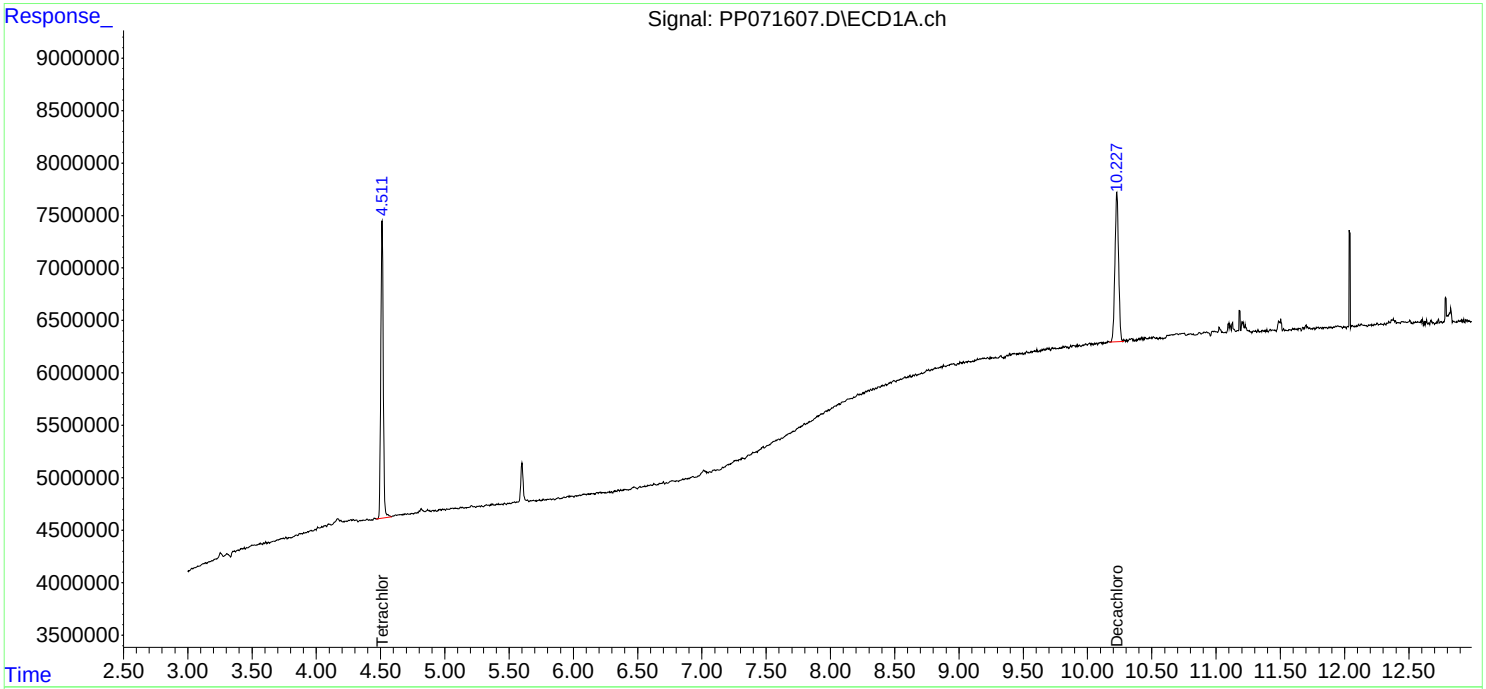
Sample Results: **PP071607.D**

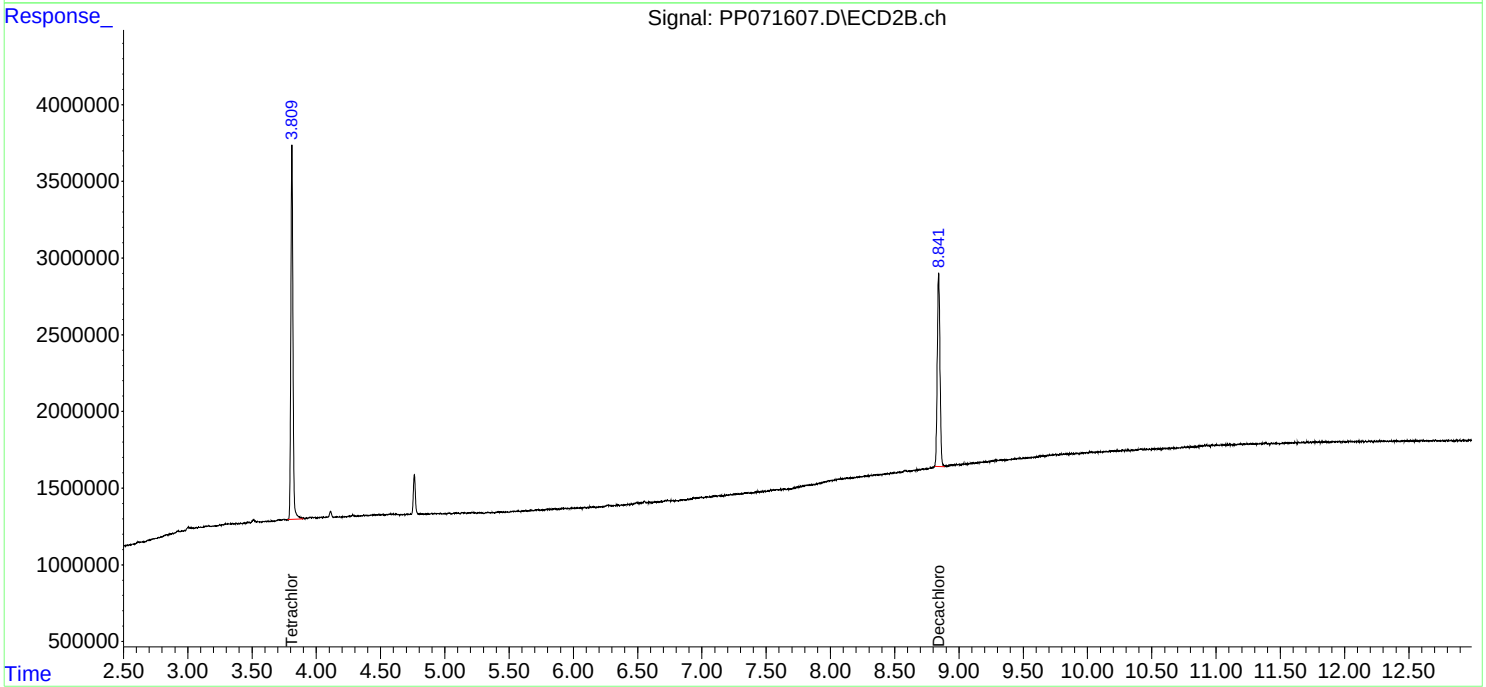
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:30
Operator : YP\AJ
Sample : PB167776BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

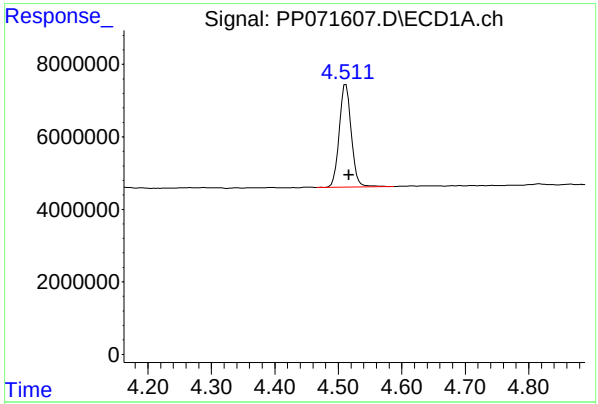
Instrument :
ECD_P
ClientSampleId :
PB167776BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



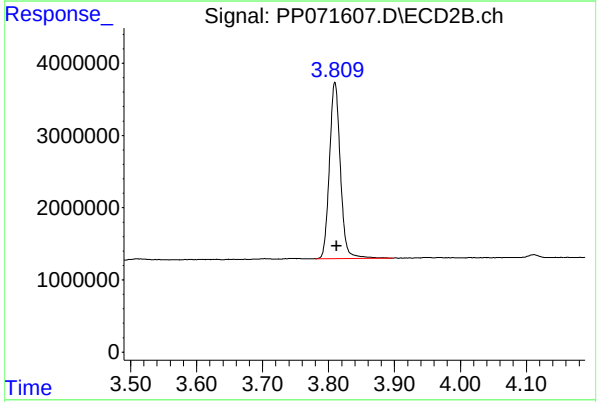




#1 Tetrachloro-m-xylene

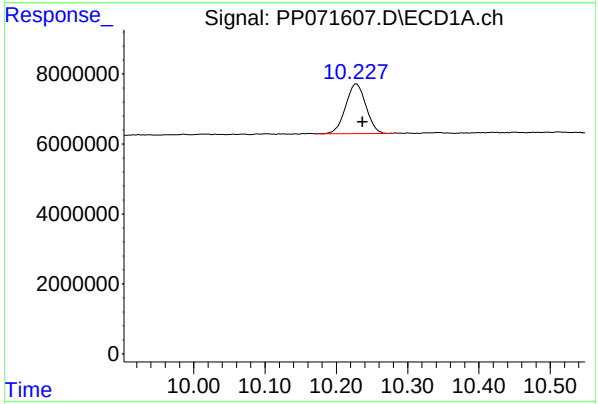
R.T.: 4.512 min
Delta R.T.: -0.005 min
Response: 37143611
Conc: 18.73 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB167776BL



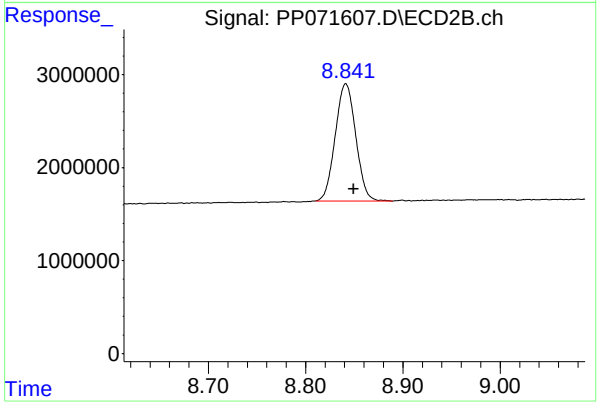
#1 Tetrachloro-m-xylene

R.T.: 3.810 min
Delta R.T.: -0.003 min
Response: 28071621
Conc: 19.93 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.229 min
Delta R.T.: -0.009 min
Response: 28176247
Conc: 19.46 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.841 min
Delta R.T.: -0.008 min
Response: 18467203
Conc: 21.06 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 19:29
Operator : YP\AJ
Sample : PB167782BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167782BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.511	3.811	36558038	28901984	18.439	20.518
2)	SA Decachlor...	10.229	8.843	29056700	17806775	20.067	20.303
	Target Compounds						

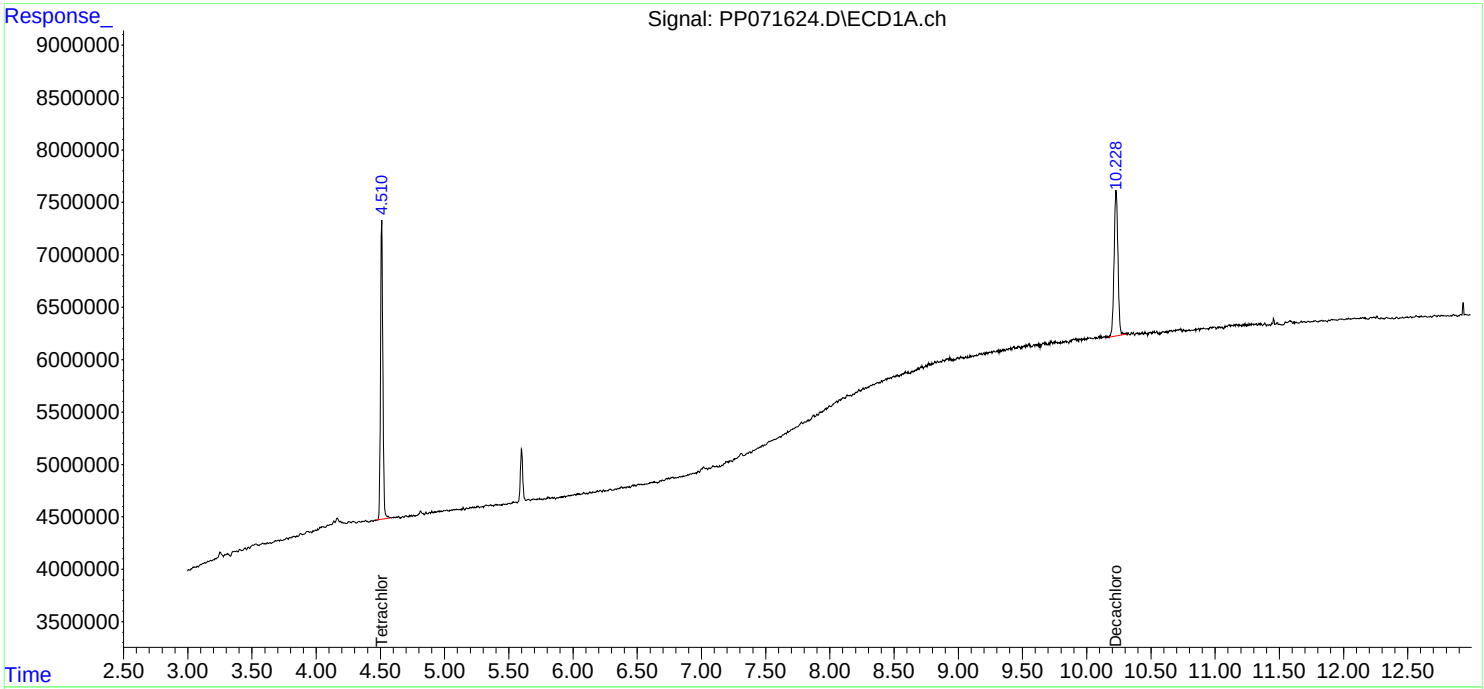
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

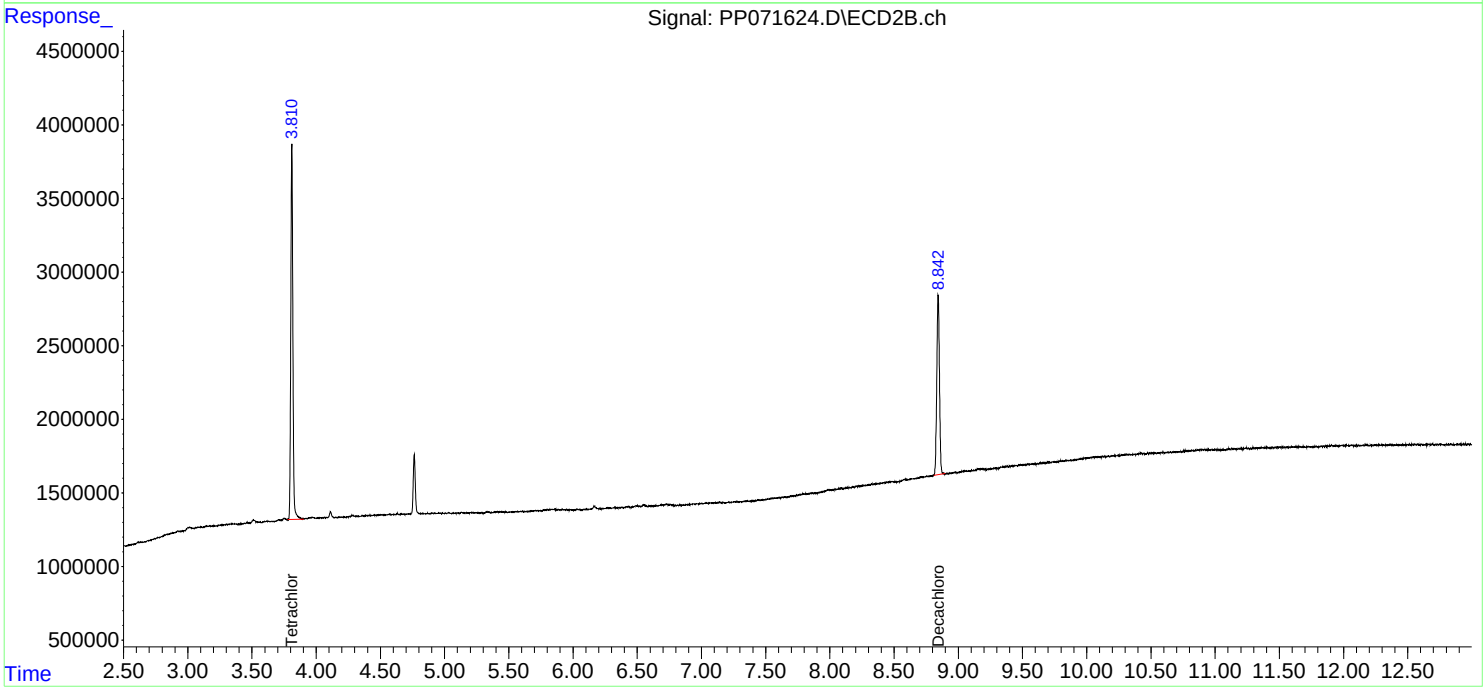
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 19:29
Operator : YP\AJ
Sample : PB167782BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

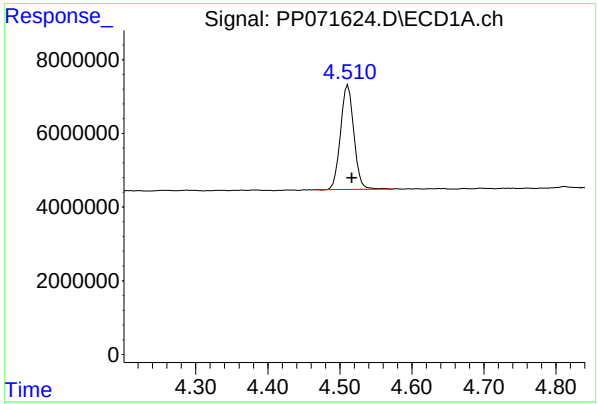
Instrument :
ECD_P
ClientSampleId :
PB167782BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



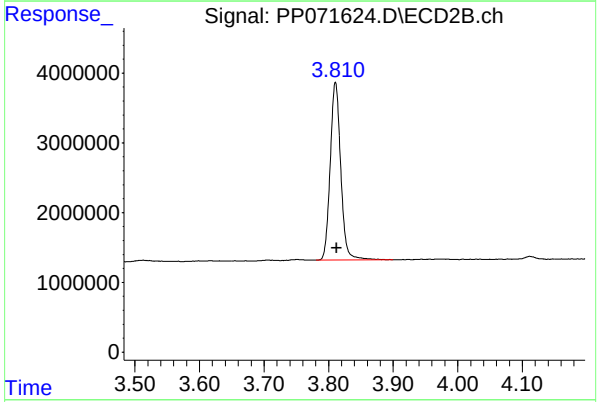




#1 Tetrachloro-m-xylene

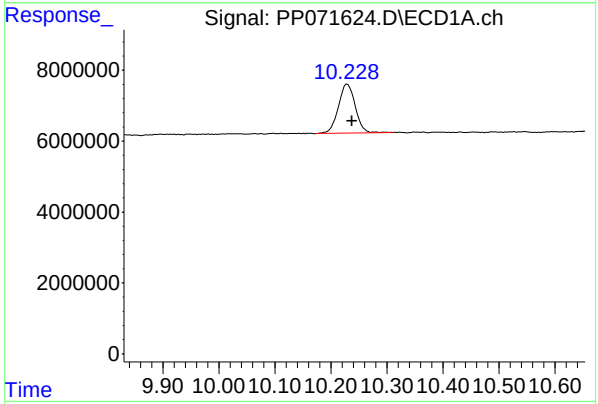
R.T.: 4.511 min
Delta R.T.: -0.006 min
Response: 36558038
Conc: 18.44 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB167782BL



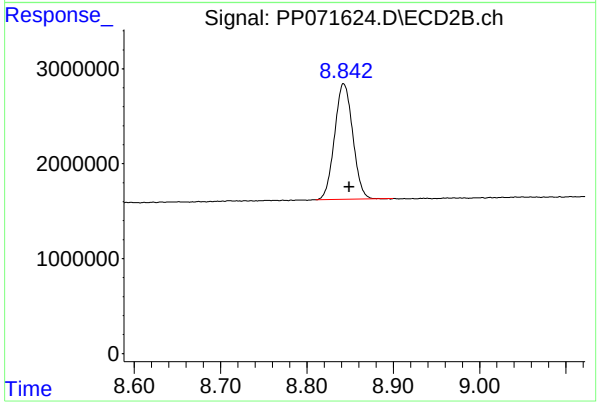
#1 Tetrachloro-m-xylene

R.T.: 3.811 min
Delta R.T.: -0.002 min
Response: 28901984
Conc: 20.52 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.229 min
Delta R.T.: -0.008 min
Response: 29056700
Conc: 20.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.843 min
Delta R.T.: -0.007 min
Response: 17806775
Conc: 20.30 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071641.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 12:39
Operator : YP\AJ
Sample : PB167794BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167794BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 13:25:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.511	3.808	38144922	28404318	19.240	20.164
2)	SA Decachlor...	10.230	8.839	29667979	18653267	20.489	21.268
	Target Compounds						

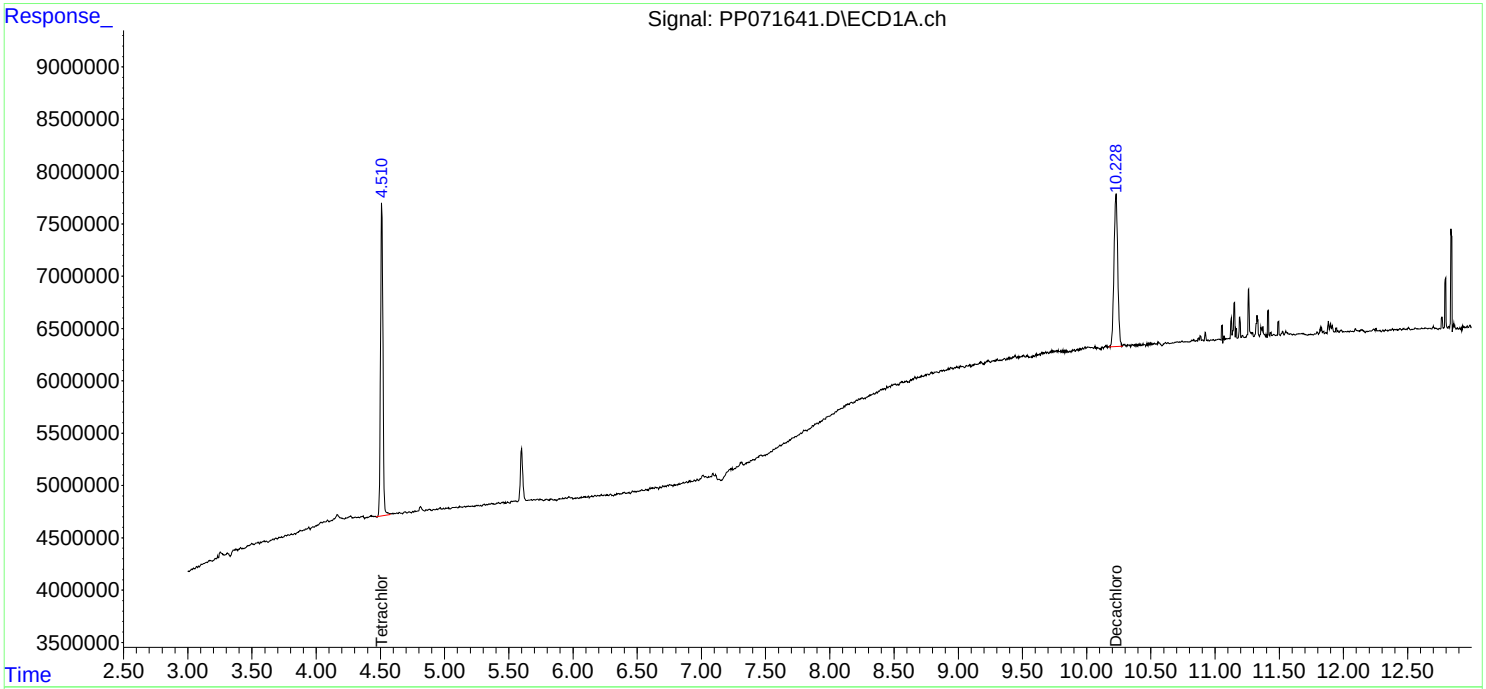
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

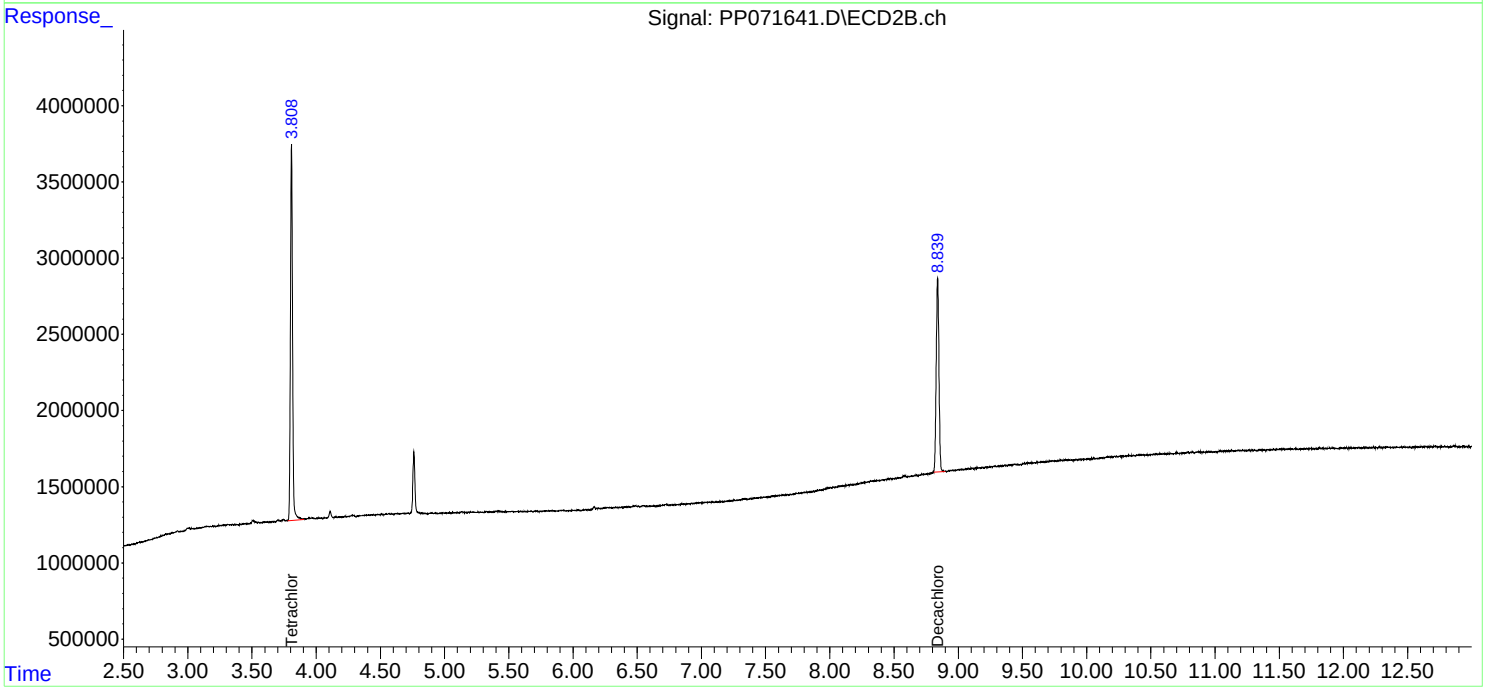
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071641.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 12:39
Operator : YP\AJ
Sample : PB167794BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

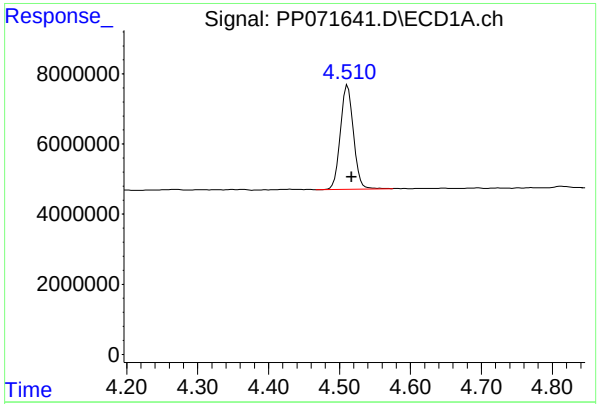
Instrument :
ECD_P
ClientSampleId :
PB167794BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 13:25:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



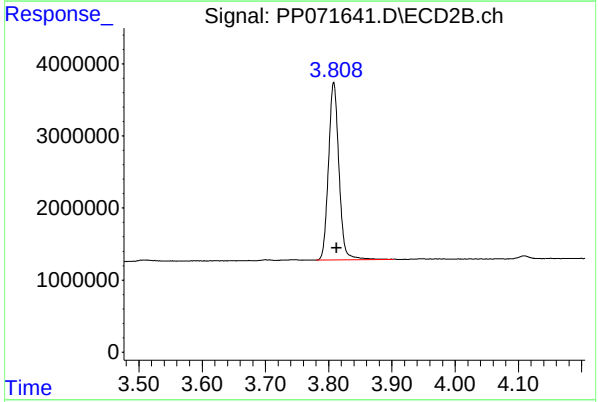




#1 Tetrachloro-m-xylene

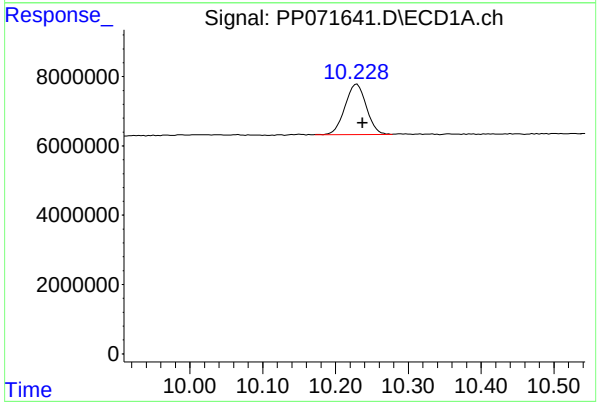
R.T.: 4.511 min
Delta R.T.: -0.006 mi
Response: 38144922
Conc: 19.24 ng/m

Instrument :
ECD_P
ClientSampleId :
PB167794BL



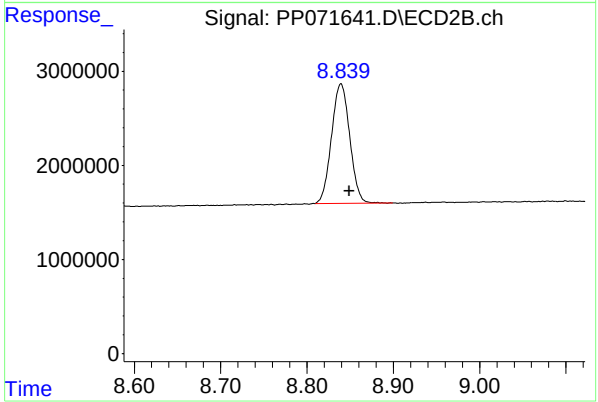
#1 Tetrachloro-m-xylene

R.T.: 3.808 min
Delta R.T.: -0.004 min
Response: 28404318
Conc: 20.16 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.230 min
Delta R.T.: -0.008 min
Response: 29667979
Conc: 20.49 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.839 min
Delta R.T.: -0.010 min
Response: 18653267
Conc: 21.27 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071608.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:46
Operator : YP\AJ
Sample : PB167776BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167776BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	4.514	3.810	38630891	29149931	19.485	20.694
2) SA	Decachlor...	10.232	8.842	30328269	18681272	20.945	21.300
	Target Compounds						
3) L1	AR-1016-1	5.667	4.894	28845238	24773400	430.206	462.764
4) L1	AR-1016-2	5.689	4.912	45302522	36142238	441.423	473.291
5) L1	AR-1016-3	5.752	5.090	26549957	20012383	430.676	474.110
6) L1	AR-1016-4	5.849	5.131	22599382	16141723	440.550	468.067
7) L1	AR-1016-5	6.141	5.345	20419433	20511525	423.303	461.480
31) L7	AR-1260-1	7.260	6.380	43208600	35825558	449.974	495.518
32) L7	AR-1260-2	7.513	6.569	65090459	43301678	454.932	495.095
33) L7	AR-1260-3	7.872	6.721	44718458	39170399	398.901	499.702 #
34) L7	AR-1260-4	8.097	7.192	47301593	27738940	419.099	439.529
35) L7	AR-1260-5	8.416	7.434	95335211	64379860	420.770	426.986

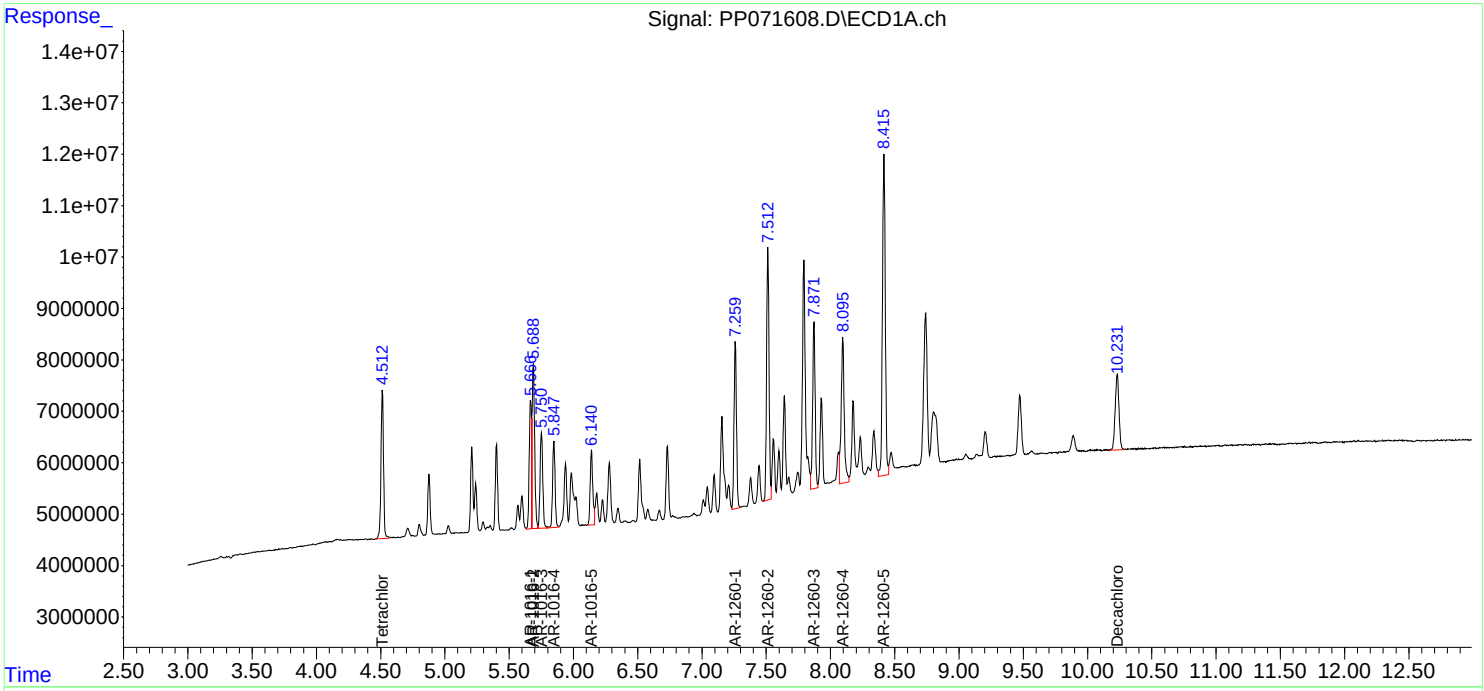
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

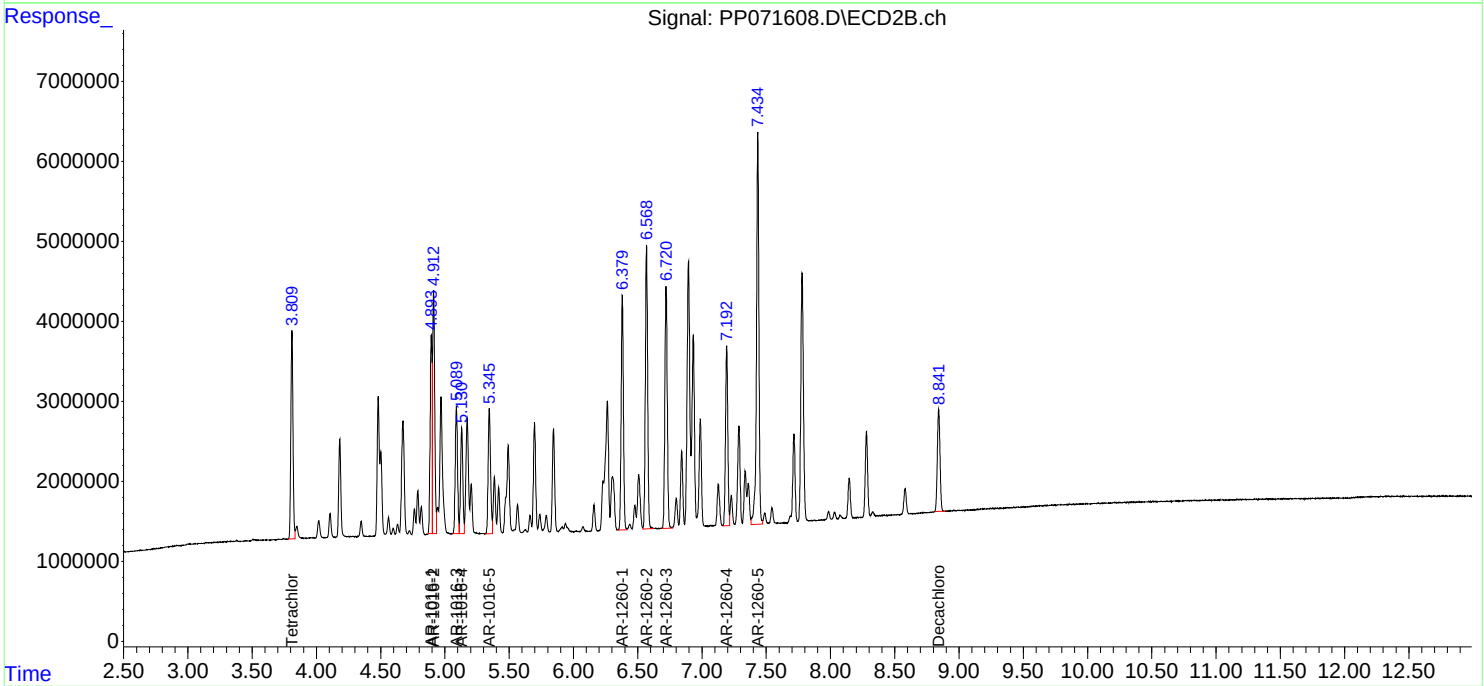
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071608.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 13:46
Operator : YP\AJ
Sample : PB167776BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167776BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 19:45
Operator : YP\AJ
Sample : PB167782BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167782BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:29:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.513	3.810	37063553	26041740	18.694	18.487
2)	SA Decachlor...	10.231	8.843	28679030	18026429	19.806	20.553
	Target Compounds						
3)	L1 AR-1016-1	5.666	4.895	28275588	21964075	421.710	410.286
4)	L1 AR-1016-2	5.688	4.913	43704635	31892392	425.854	417.638
5)	L1 AR-1016-3	5.750	5.090	25826586	17806090	418.942	421.841
6)	L1 AR-1016-4	5.847	5.132	21668046	14475285	422.394	419.745
7)	L1 AR-1016-5	6.141	5.346	19753788	18996838	409.504	427.402
31)	L7 AR-1260-1	7.259	6.380	41560776	34472705	432.814	476.806
32)	L7 AR-1260-2	7.512	6.569	62820376	41818431	439.066	478.136
33)	L7 AR-1260-3	7.872	6.721	43485353	37872032	387.902	483.138
34)	L7 AR-1260-4	8.096	7.193	45888123	27163785	406.576	430.415
35)	L7 AR-1260-5	8.416	7.434	90779182	63782407	400.662	423.024

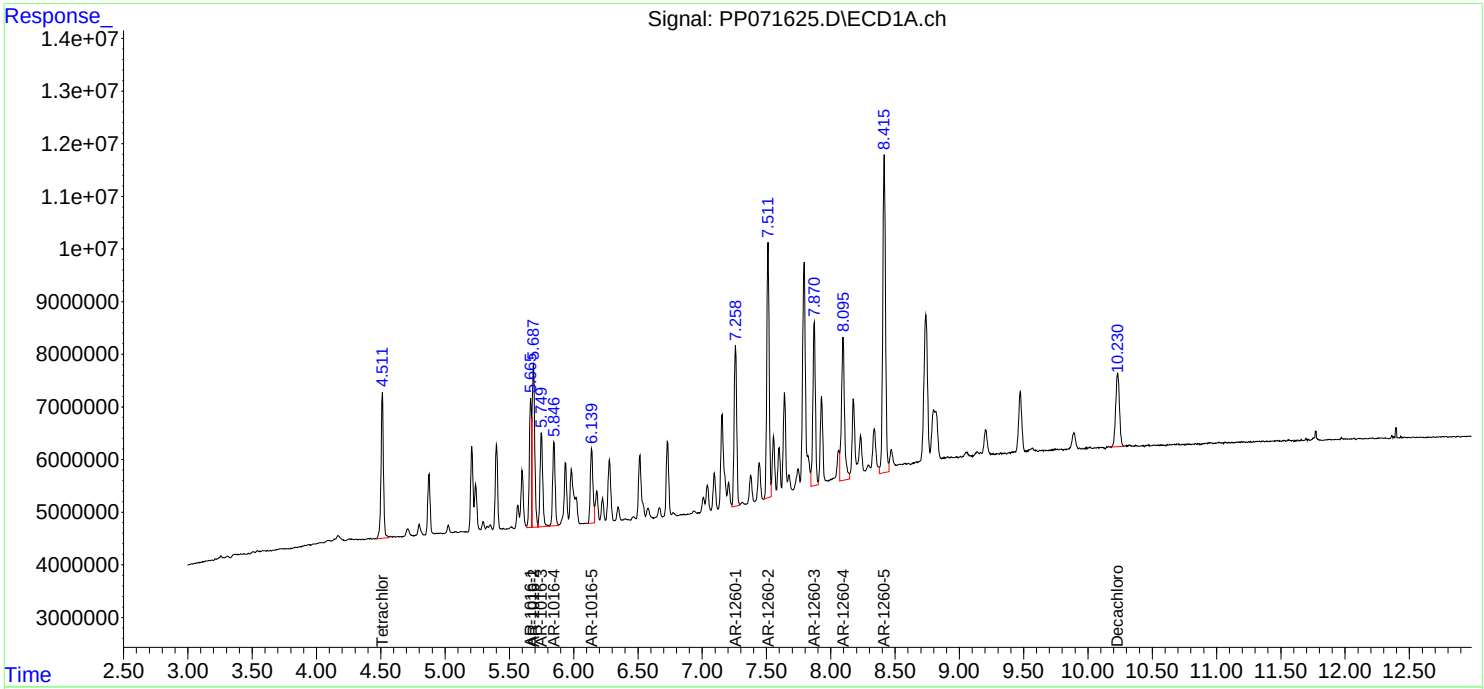
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

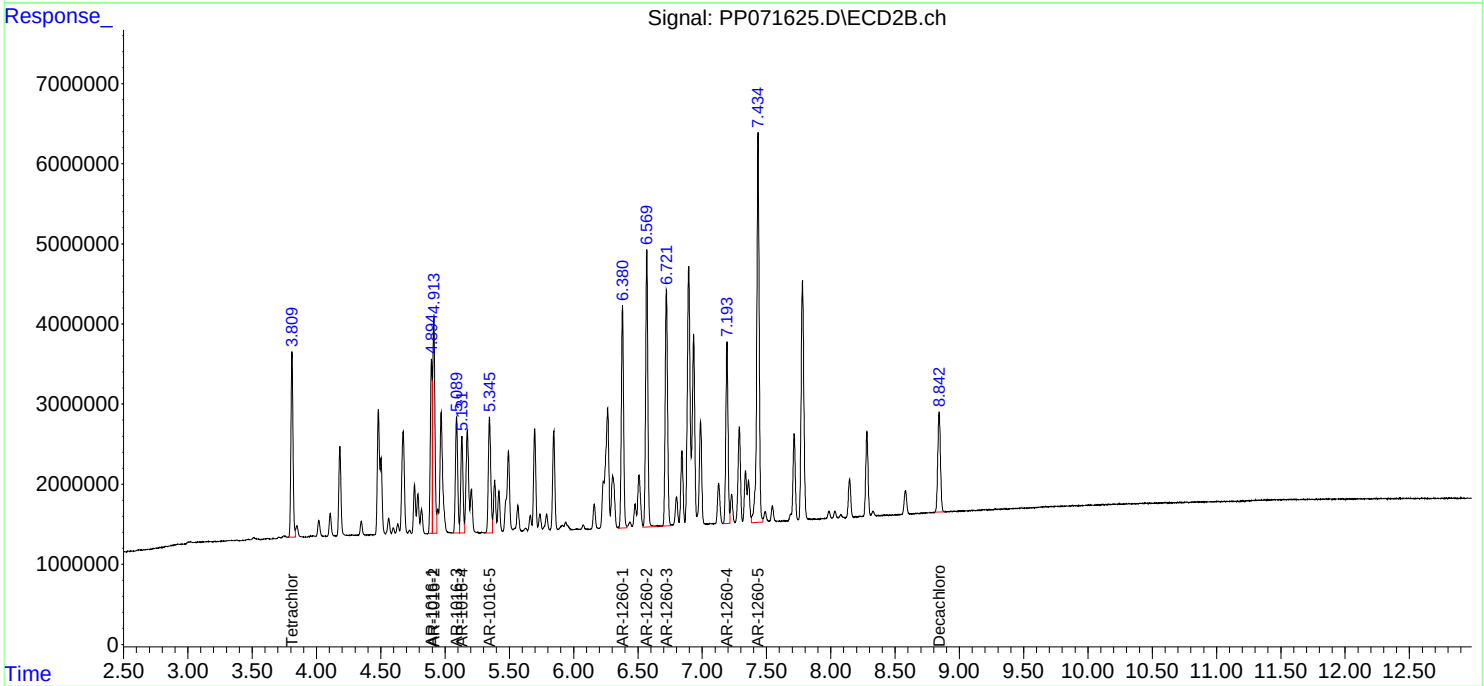
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 19:45
Operator : YP\AJ
Sample : PB167782BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167782BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:29:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071642.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 12:56
Operator : YP\AJ
Sample : PB167794BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167794BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 13:26:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.511	3.808	38663693	26159841	19.501	18.571
2)	SA Decachlor...	10.227	8.839	29354819	18280958	20.273	20.844
	Target Compounds						
3)	L1 AR-1016-1	5.665	4.892	29936757	23625423	446.485	441.320
4)	L1 AR-1016-2	5.687	4.911	45947975	34255318	447.712	448.581
5)	L1 AR-1016-3	5.749	5.088	27663631	19370688	448.742	458.908
6)	L1 AR-1016-4	5.846	5.129	23104123	15788064	450.389	457.812
7)	L1 AR-1016-5	6.139	5.344	20717335	19976979	429.478	449.453
31)	L7 AR-1260-1	7.258	6.378	43684070	34991537	454.926	483.982
32)	L7 AR-1260-2	7.512	6.567	66188315	42018508	462.605	480.423
33)	L7 AR-1260-3	7.870	6.719	45117225	37706189	402.458	481.023
34)	L7 AR-1260-4	8.095	7.191	47594086	27091127	421.691	429.264
35)	L7 AR-1260-5	8.415	7.432	96264702	63552671	424.872	421.500

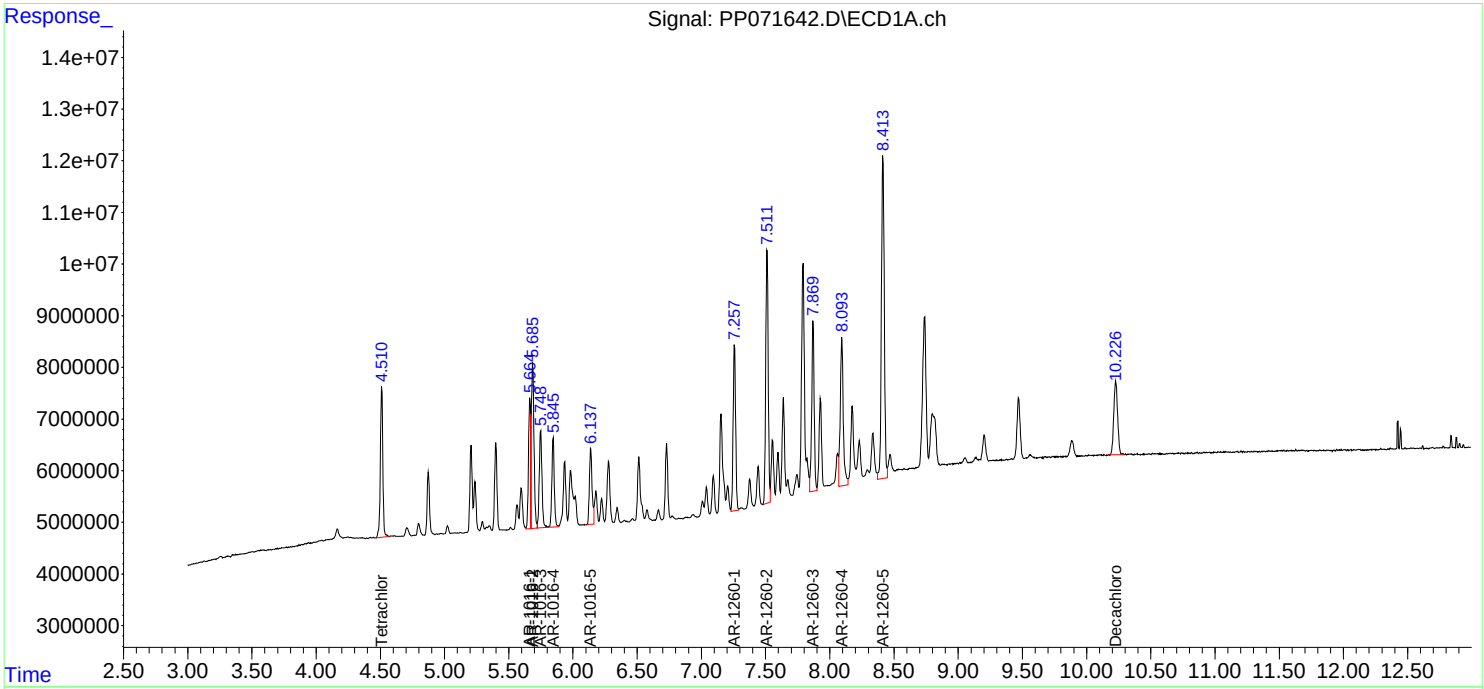
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

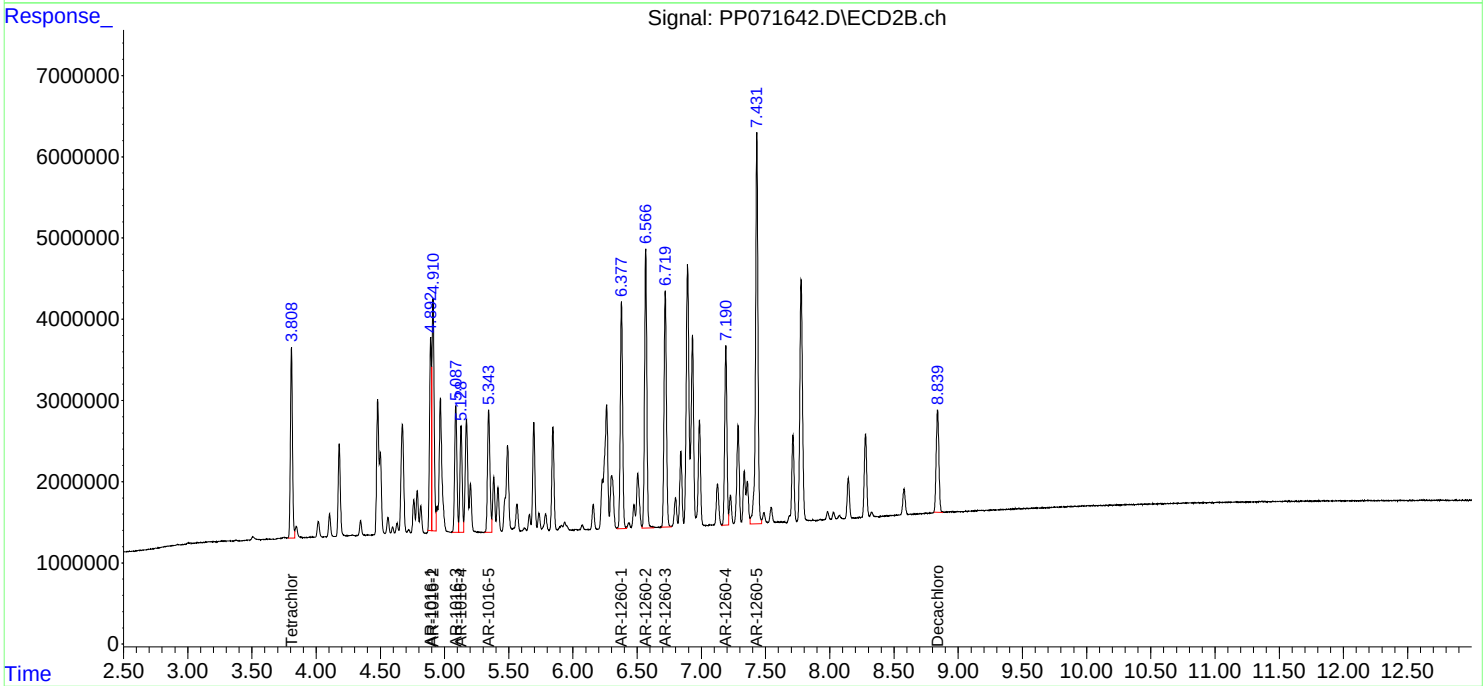
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071642.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 12:56
Operator : YP\AJ
Sample : PB167794BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167794BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 13:26:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071626.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 20:01
Operator : YP\AJ
Sample : PB167782BSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167782BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:29:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.515	3.811	37524647	26867812	18.927	19.074
2)	SA Decachlor...	10.235	8.844	28849159	18705141	19.923	21.327
	Target Compounds						
3)	L1 AR-1016-1	5.668	4.896	29045249	23618975	433.189	441.199
4)	L1 AR-1016-2	5.690	4.914	44449444	33598519	433.111	439.980
5)	L1 AR-1016-3	5.752	5.091	26431042	18849032	428.748	446.549
6)	L1 AR-1016-4	5.849	5.133	22177707	15223932	432.330	441.453
7)	L1 AR-1016-5	6.142	5.347	20022248	19122655	415.069	430.232
31)	L7 AR-1260-1	7.262	6.381	42243953	31692122	439.928	438.347
32)	L7 AR-1260-2	7.516	6.570	63706653	38050343	445.260	435.053
33)	L7 AR-1260-3	7.874	6.723	44243288	34687292	394.663	442.510
34)	L7 AR-1260-4	8.098	7.194	47141172	25052863	417.678	396.968
35)	L7 AR-1260-5	8.419	7.436	92926896	59198527	410.141	392.622

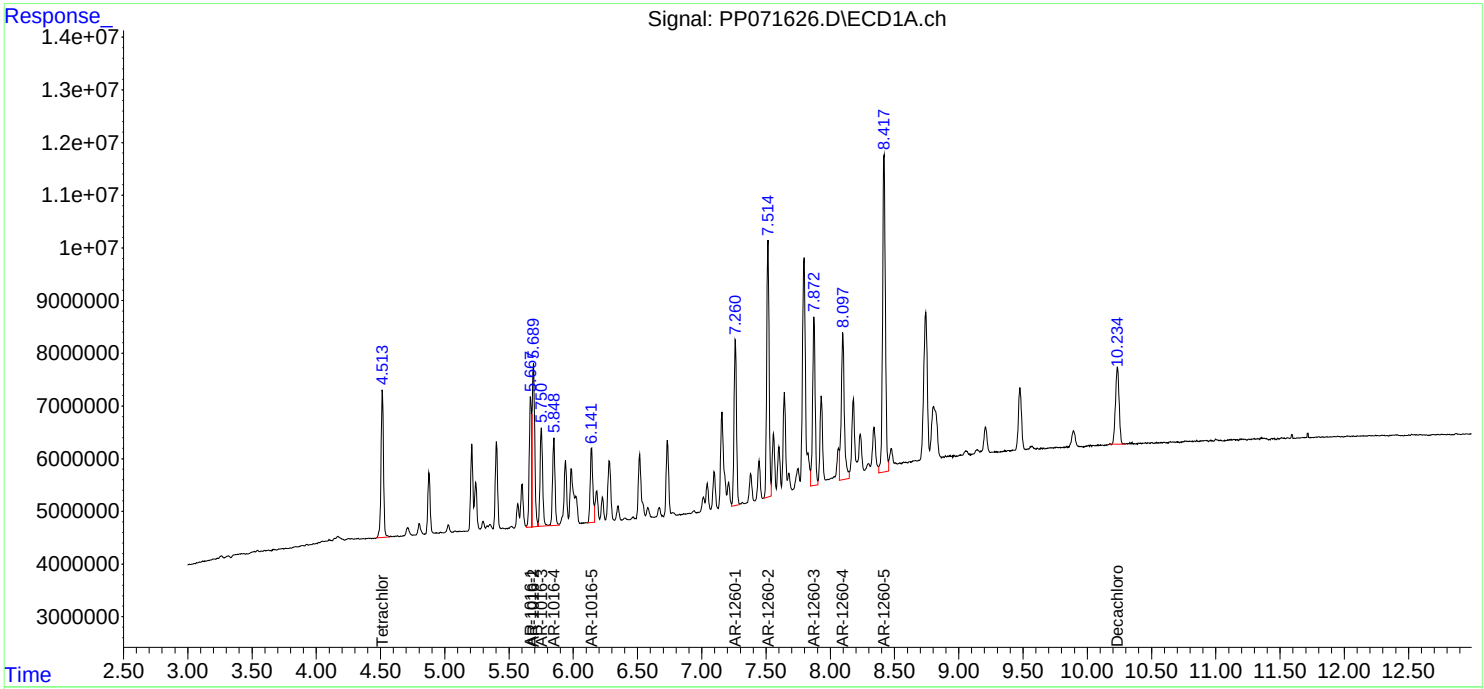
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

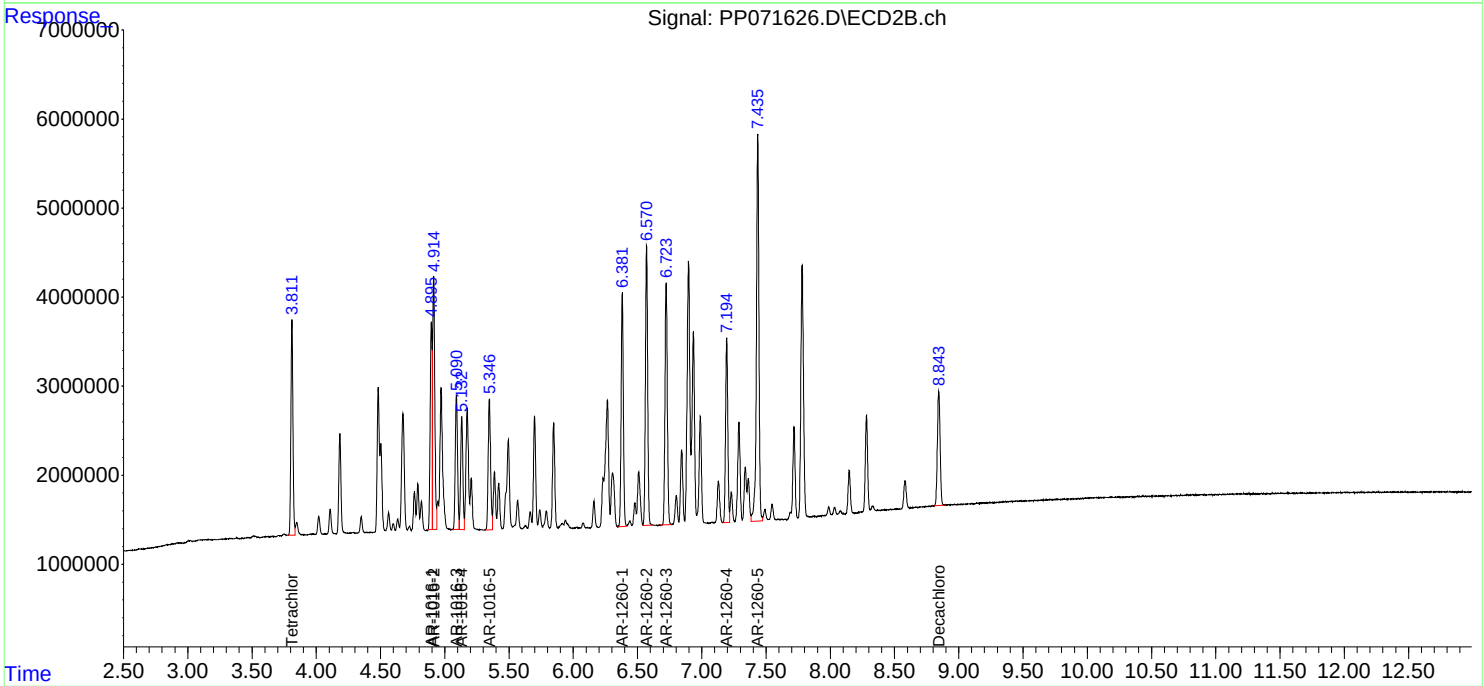
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP042925\
Data File : PP071626.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 20:01
Operator : YP\AJ
Sample : PB167782BSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167782BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:29:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110867.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 18:05
Operator : YP/AJ
Sample : Q1904-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
VNJ-210MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:27:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.684	3.683	204.2E6	106.3E6	23.341	21.299
2)	SA Decachlor...	8.727	8.679	151.0E6	36669320	19.125	19.049
	Target Compounds						
3)	L1 AR-1016-1	4.774	4.762	183.5E6	96163946	559.100	547.913
4)	L1 AR-1016-2	4.793	4.781	255.0E6	133.4E6	560.529	530.644
5)	L1 AR-1016-3	4.850	4.956	176.2E6	68308260	546.419	503.337
6)	L1 AR-1016-4	4.970	4.998	138.0E6	55741649	554.014	487.389
7)	L1 AR-1016-5	5.227	5.210	136.6E6	68733019	507.848	461.067
31)	L7 AR-1260-1	6.267	6.242	278.3E6	134.2E6	588.981	545.668
32)	L7 AR-1260-2	6.456	6.429	310.5E6	139.5E6	529.510	478.151
33)	L7 AR-1260-3	6.823	6.582	222.9E6	133.7E6	452.229	493.665
34)	L7 AR-1260-4	7.083	7.053	210.0E6	90238636	494.672	449.754
35)	L7 AR-1260-5	7.326	7.295	492.3E6	201.4E6	471.761	438.978

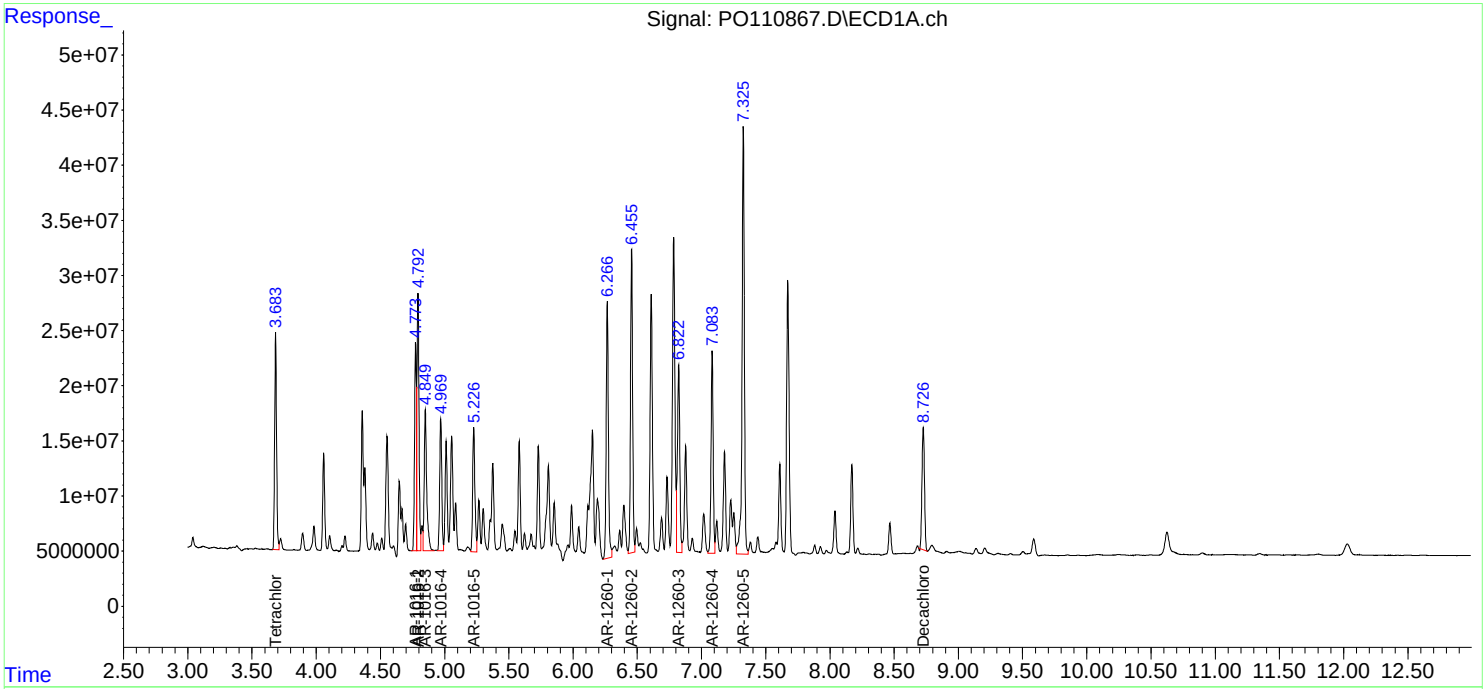
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

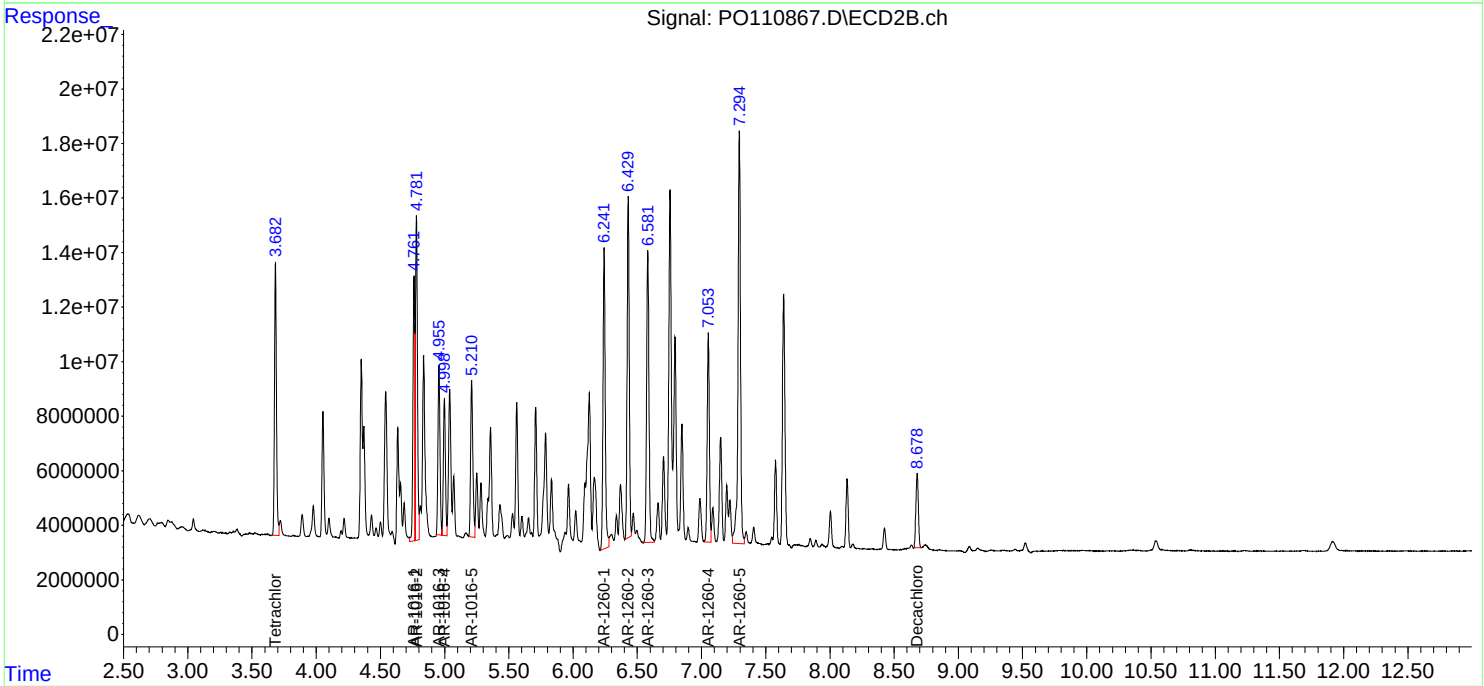
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110867.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 18:05
Operator : YP/AJ
Sample : Q1904-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
VNJ-210MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:27:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071648.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 14:49
Operator : YP\AJ
Sample : Q1910-01MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
MOO-25-0123-27MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 01 00:59:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	4.512	3.808	36426585	25506924	18.373	18.107	
2)	SA Decachlor...	10.228	8.840	24520790	15144736	16.934	17.268	
	Target Compounds							
3)	L1 AR-1016-1	5.665	4.892	27024527	22371423	403.051	417.895	
4)	L1 AR-1016-2	5.688	4.911	41543893	32463411	404.799	425.116	
5)	L1 AR-1016-3	5.749	5.087	24099500	14876873	390.927	352.446	
6)	L1 AR-1016-4	5.844	5.129	33278057	12716398	648.718	368.742	#
7)	L1 AR-1016-5	6.139	5.343	17476216	19512093	362.289	438.994m	
31)	L7 AR-1260-1	7.258	6.378	46344634	33336510	482.633	461.091	
32)	L7 AR-1260-2	7.512	6.566	150.5E6	41657794	1051.768	476.299	#
33)	L7 AR-1260-3	7.870	6.719	44564238	39965819	397.526	509.849	#
34)	L7 AR-1260-4	8.094	7.190	46762029	29596698	414.319m	468.965	
35)	L7 AR-1260-5	8.414	7.432	89706136	62309363	395.926	413.254	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071648.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 14:49
Operator : YP\AJ
Sample : Q1910-01MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

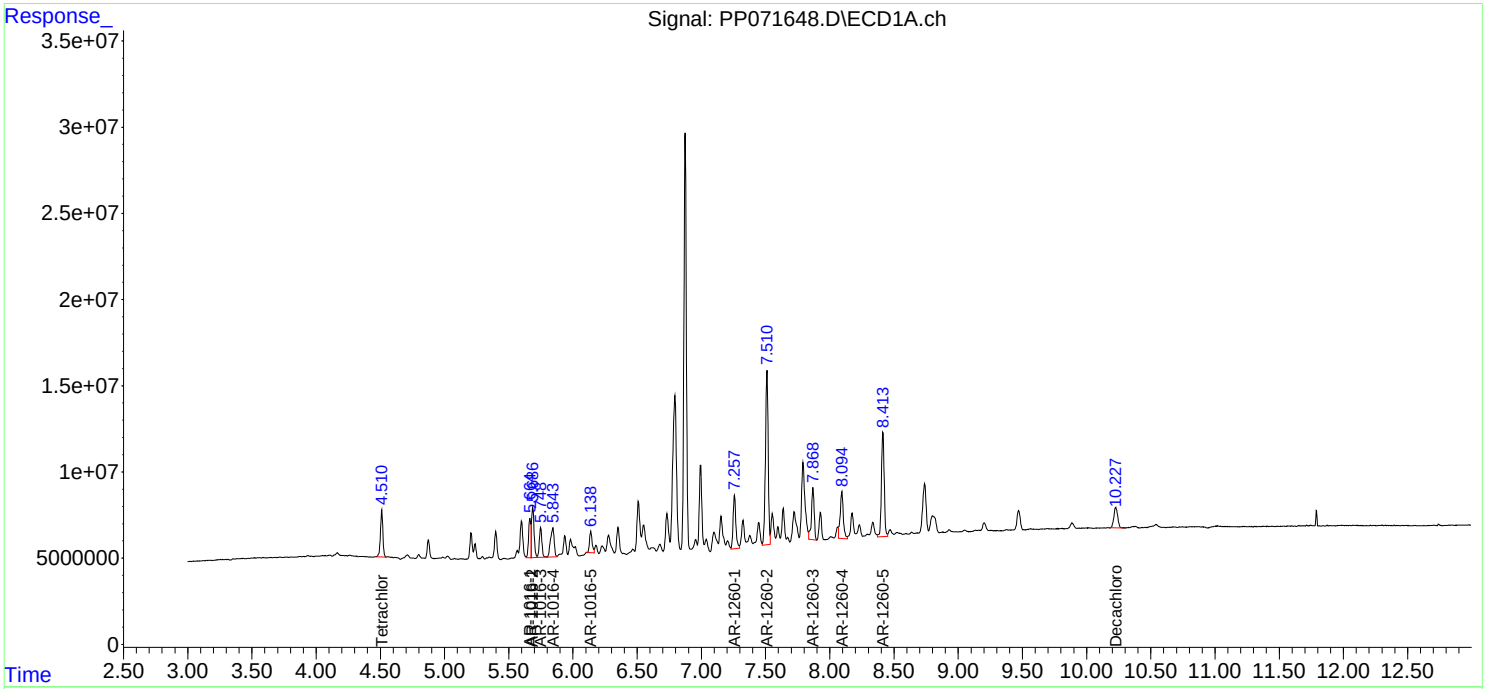
Instrument :
ECD_P
ClientSampleId :
MOO-25-0123-27MS

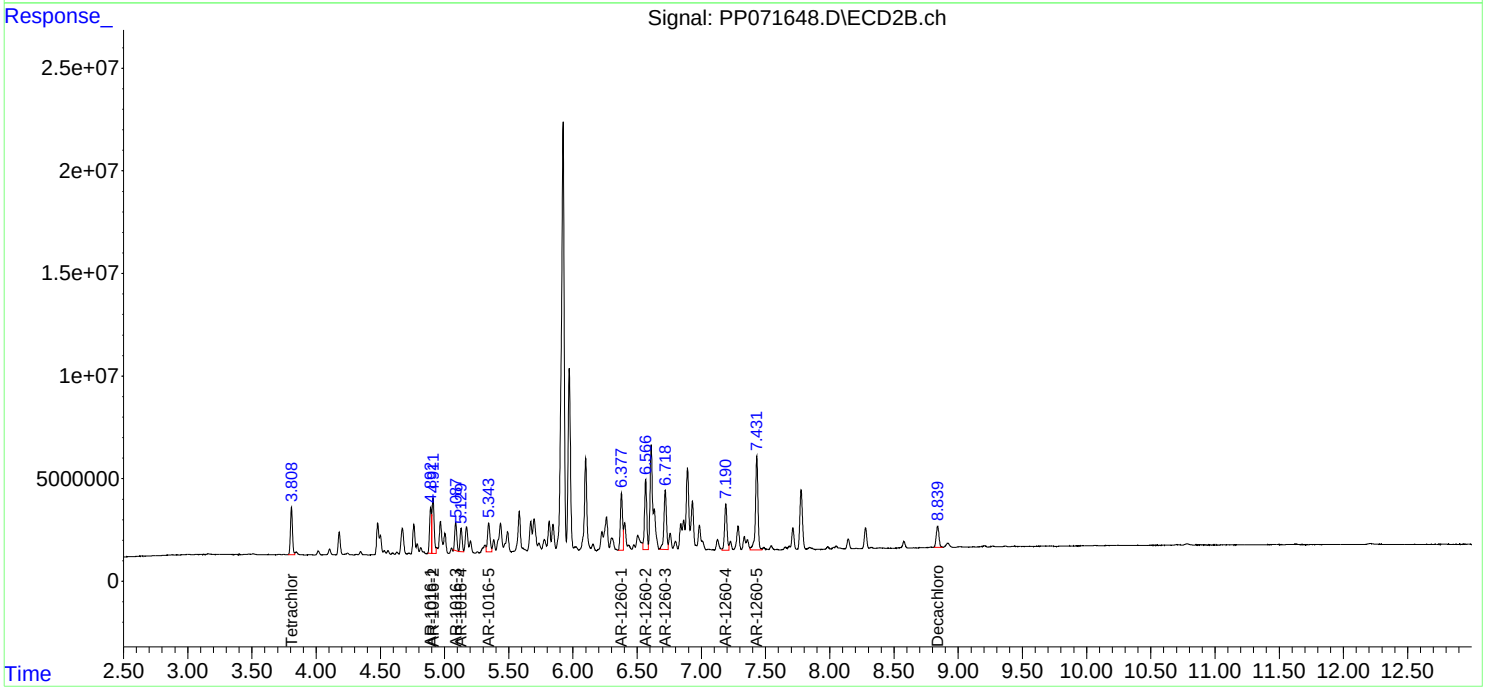
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 01 00:59:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110868.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 18:23
Operator : YP/AJ
Sample : Q1904-01MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
VNJ-210MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.686	3.683	200.2E6	104.0E6	22.886	20.840
2)	SA Decachlor...	8.728	8.680	150.3E6	35959064	19.037	18.680
	Target Compounds						
3)	L1 AR-1016-1	4.776	4.762	184.1E6	94620800	561.108	539.121
4)	L1 AR-1016-2	4.795	4.781	251.8E6	132.8E6	553.451	528.016
5)	L1 AR-1016-3	4.851	4.957	177.3E6	67698746	549.769	498.845
6)	L1 AR-1016-4	4.971	4.999	136.9E6	54289739	549.623	474.694
7)	L1 AR-1016-5	5.229	5.211	134.7E6	68692744	500.886	460.797
31)	L7 AR-1260-1	6.268	6.242	275.5E6	131.4E6	583.148	534.408
32)	L7 AR-1260-2	6.458	6.430	306.8E6	136.7E6	523.155	468.637
33)	L7 AR-1260-3	6.825	6.583	219.3E6	132.6E6	444.894	489.564
34)	L7 AR-1260-4	7.085	7.053	204.6E6	88744084	482.075	442.305
35)	L7 AR-1260-5	7.327	7.294	478.9E6	196.7E6	458.944	428.636

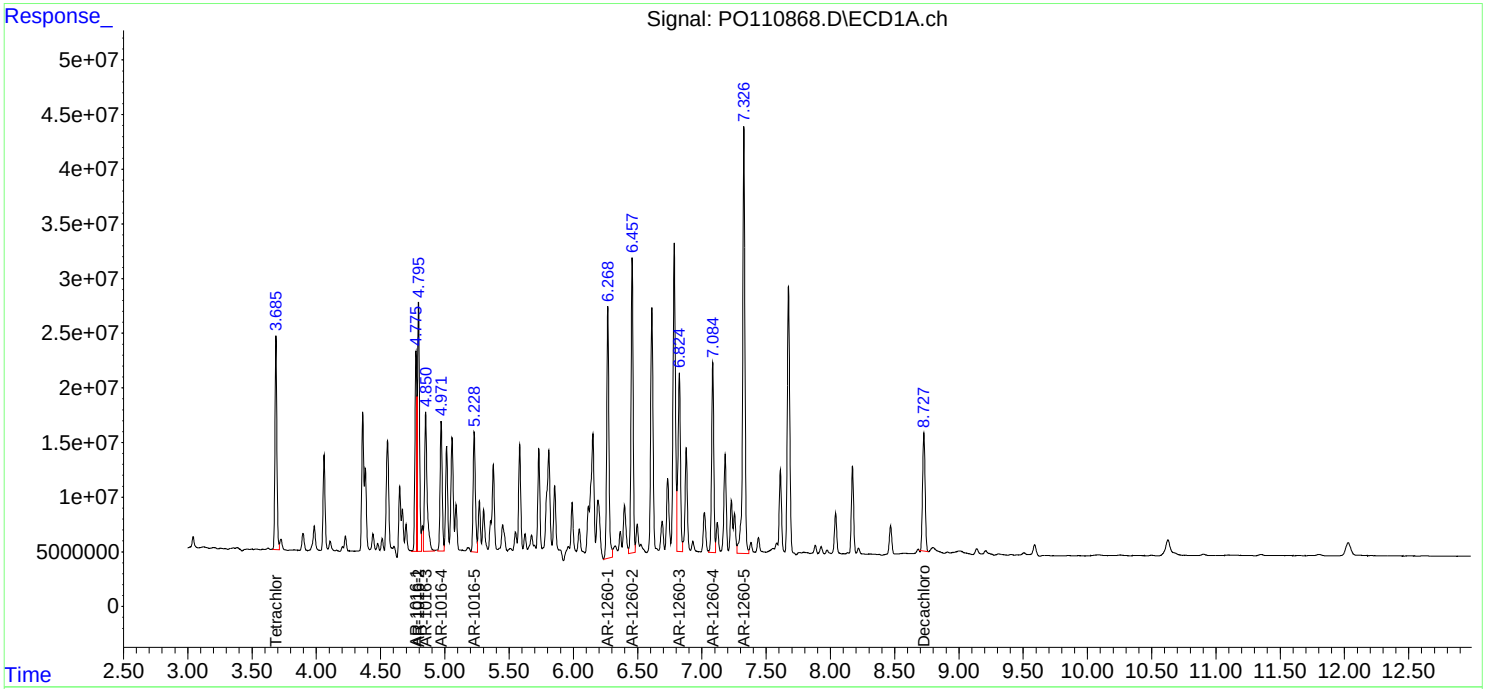
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

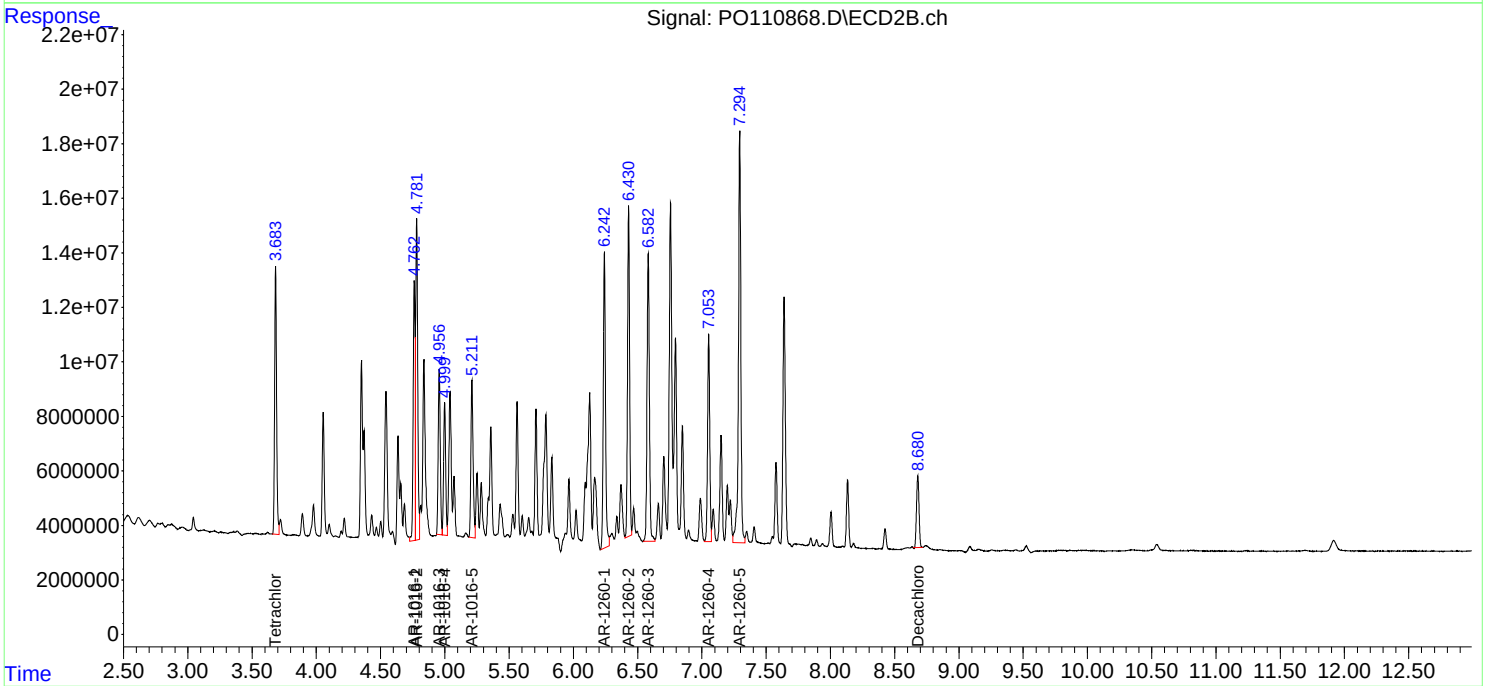
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO042925\
Data File : PO110868.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2025 18:23
Operator : YP/AJ
Sample : Q1904-01MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
VNJ-210MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 30 02:28:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO041025.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Apr 11 02:12:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071649.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 15:05
Operator : YP\AJ
Sample : Q1910-01MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
MOO-25-0123-27MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 01 00:59:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.509	3.810	35544758	26085299	17.928	18.518
2)	SA Decachlor...	10.227	8.841	27687373	17101117	19.121	19.498
	Target Compounds						
3)	L1 AR-1016-1	5.663	4.894	26053011	20512189	388.562	383.165
4)	L1 AR-1016-2	5.685	4.912	39688236	30323173	386.718	397.089
5)	L1 AR-1016-3	5.747	5.089	22907569	13291190	371.592	314.879
6)	L1 AR-1016-4	5.840	5.131	36872477	11964995	718.788	346.953 #
7)	L1 AR-1016-5	6.135	5.345	20050318	17505669	415.651m	393.852m
31)	L7 AR-1260-1	7.256	6.379	51501788	33007103	536.339	456.535
32)	L7 AR-1260-2	7.510	6.568	187.4E6	41947994	1309.506	479.617 #
33)	L7 AR-1260-3	7.868	6.721	46399695	40039468	413.898	510.788
34)	L7 AR-1260-4	8.091	7.192	46463282	31726150	411.672m	502.707
35)	L7 AR-1260-5	8.413	7.434	92551019	63951614	408.482	424.146

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

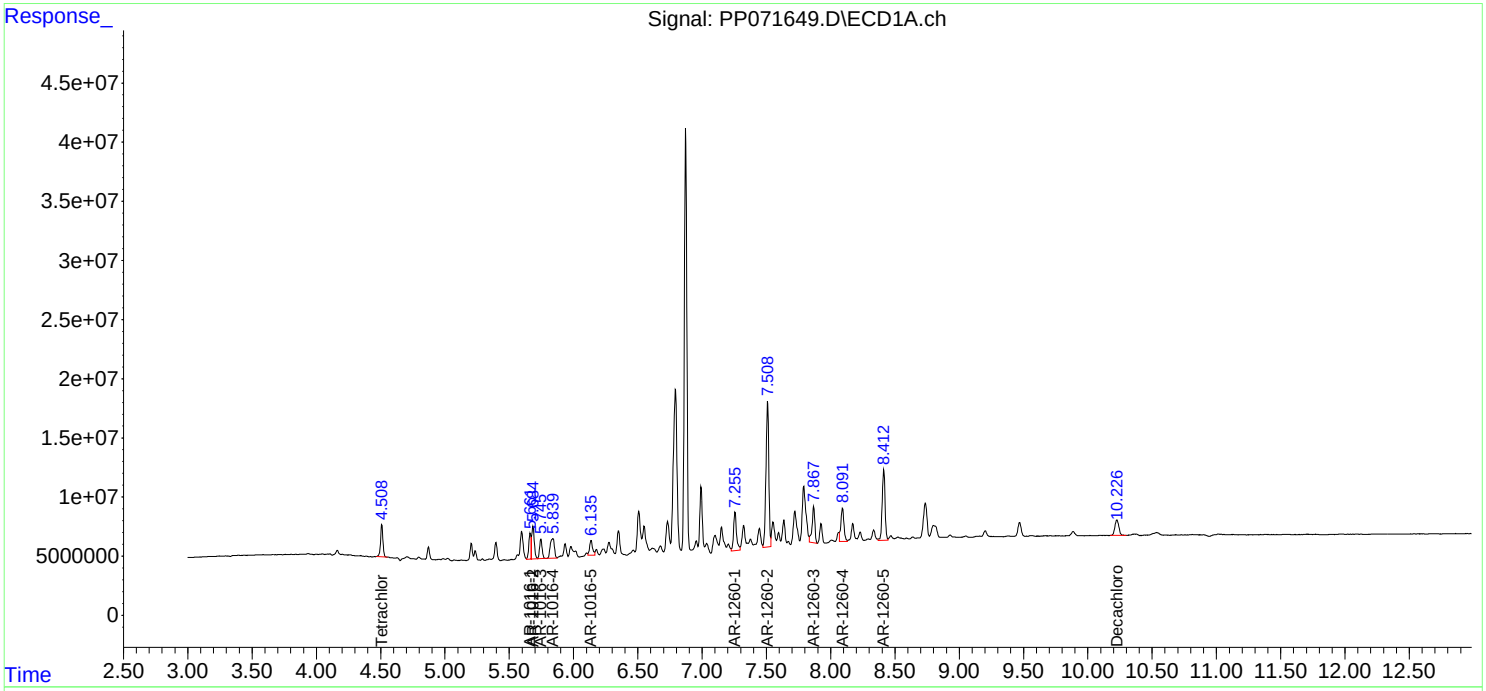
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP043025\
Data File : PP071649.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2025 15:05
Operator : YP\AJ
Sample : Q1910-01MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

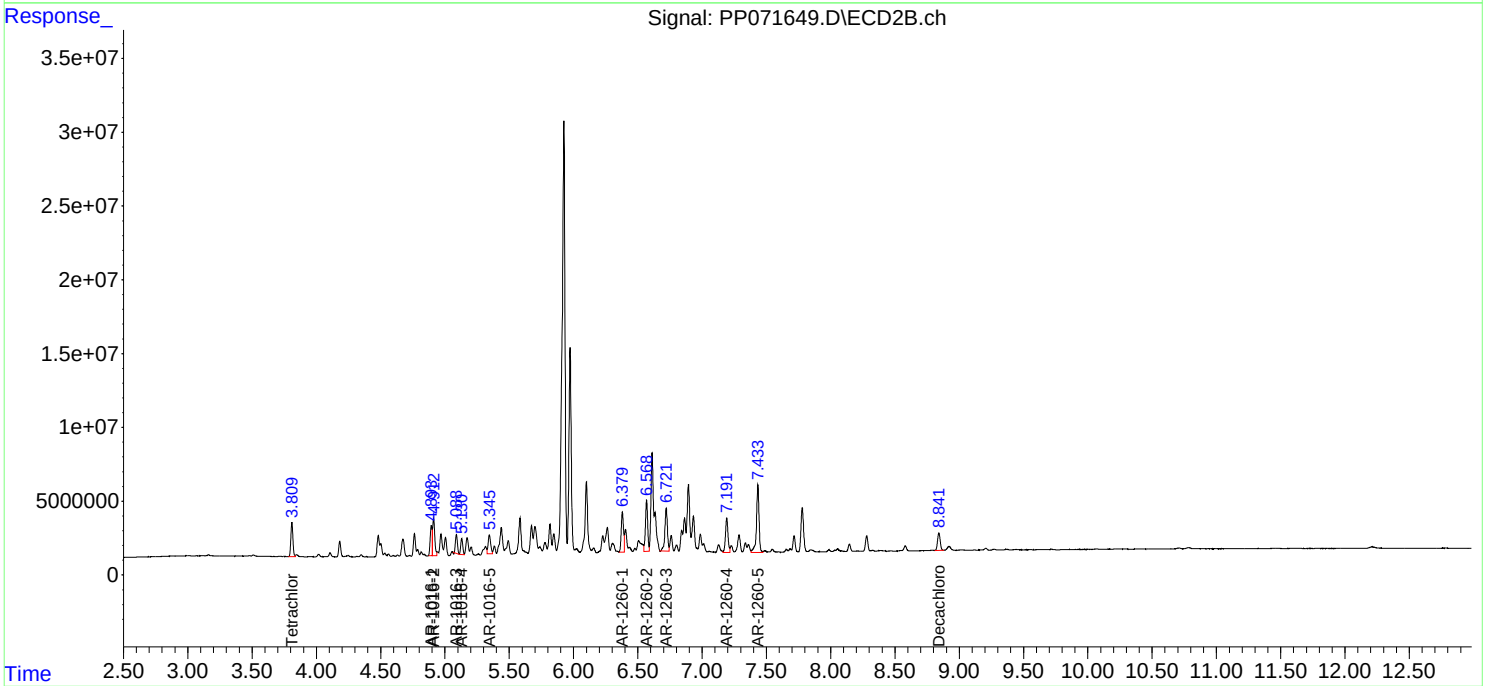
Instrument :
ECD_P
ClientSampleId :
MOO-25-0123-27MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/01/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 01 00:59:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP042225.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Apr 23 05:02:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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

Manual Integration Report

Sequence:	PO041025	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	PO042925	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	PP042225	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PP071393.D	AR-1260-3	yogesh	4/23/2025 7:32:38 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1660ICC050	PP071393.D	AR-1260-4	yogesh	4/23/2025 7:32:38 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1660ICC050	PP071393.D	AR-1260-5	yogesh	4/23/2025 7:32:38 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1254ICC750	PP071407.D	AR-1254-5	yogesh	4/23/2025 7:32:40 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1254ICC050	PP071410.D	Tetrachloro-m-xylene	yogesh	4/23/2025 7:32:41 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC1000	PP071412.D	AR-1268-1 #2	yogesh	4/23/2025 7:32:43 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC750	PP071413.D	AR-1268-1 #2	yogesh	4/23/2025 7:32:44 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC500	PP071414.D	AR-1268-1 #2	yogesh	4/23/2025 7:32:46 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC250	PP071415.D	AR-1268-1 #2	yogesh	4/23/2025 7:32:48 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC050	PP071416.D	AR-1268-1	yogesh	4/23/2025 7:32:50 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC050	PP071416.D	AR-1268-1 #2	yogesh	4/23/2025 7:32:50 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICC050	PP071416.D	AR-1268-2	yogesh	4/23/2025 7:32:50 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software
AR1268ICV500	PP071421.D	AR-1268-1 #2	yogesh	4/23/2025 7:32:52 AM	mohammad	4/24/2025 6:33:42	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP042225	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	PP042925	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-02	PP071622.D	Tetrachloro-m-xylene	yogesh	4/30/2025 8:57:14 AM	mohammad	5/2/2025 2:52:54	Peak Integrated by Software
AR1254CCC500	PP071632.D	AR-1254-5	yogesh	4/30/2025 8:57:17 AM	mohammad	5/2/2025 2:53:02	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP043025	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PP071638.D	AR-1254-5	yogesh	5/1/2025 7:49:14 AM	mohammad	5/2/2025 3:16:35	Peak Integrated by Software
Q1901-03	PP071643.D	Tetrachloro-m-xylene	yogesh	5/1/2025 8:35:33 AM	mohammad	5/2/2025 3:16:05	Peak Integrated by Software
Q1910-01MS	PP071648.D	AR-1016-5 #2	yogesh	5/1/2025 7:49:25 AM	mohammad	5/2/2025 3:15:49	Peak Integrated by Software
Q1910-01MS	PP071648.D	AR-1260-4	yogesh	5/1/2025 7:49:25 AM	mohammad	5/2/2025 3:15:49	Peak Integrated by Software
Q1910-01MSD	PP071649.D	AR-1016-5	yogesh	5/1/2025 7:49:27 AM	mohammad	5/2/2025 3:15:46	Peak Integrated by Software
Q1910-01MSD	PP071649.D	AR-1016-5 #2	yogesh	5/1/2025 7:49:27 AM	mohammad	5/2/2025 3:15:46	Peak Integrated by Software
Q1910-01MSD	PP071649.D	AR-1260-4	yogesh	5/1/2025 7:49:27 AM	mohammad	5/2/2025 3:15:46	Peak Integrated by Software
AR1254CCC500	PP071653.D	AR-1254-5	yogesh	5/1/2025 7:49:29 AM	mohammad	5/2/2025 3:15:43	Peak Integrated by Software
AR1254CCC500	PP071653.D	Decachlorobiphenyl #2	yogesh	5/1/2025 7:49:29 AM	mohammad	5/2/2025 3:15:43	Peak Integrated by Software
AR1254CCC500	PP071668.D	AR-1254-5	yogesh	5/1/2025 8:35:35 AM	mohammad	5/2/2025 3:17:31	Peak Integrated by Software
AR1254CCC500	PP071668.D	Decachlorobiphenyl #2	yogesh	5/1/2025 8:35:35 AM	mohammad	5/2/2025 3:17:31	Peak Integrated by Software
I.BLK	PP071669.D	Decachlorobiphenyl #2	yogesh	5/1/2025 8:35:37 AM	mohammad	5/2/2025 3:17:33	Peak Integrated by Software
AR1242CCC500	PP071676.D	Decachlorobiphenyl #2	yogesh	5/1/2025 7:49:57 AM	mohammad	5/2/2025 3:17:42	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP043025	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PP071678.D	Decachlorobiphenyl #2	yogesh	5/1/2025 7:50:02 AM	mohammad	5/2/2025 3:17:45	Peak Integrated by Software
I.BLK	PP071679.D	Decachlorobiphenyl #2	yogesh	5/1/2025 7:50:03 AM	mohammad	5/2/2025 3:17:48	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO041025

Review By	yogesh	Review On	4/10/2025 11:27:35 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:29 AM		
SubDirectory	PO041025	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO110347.D	10 Apr 2025 08:59	YP/AJ	Ok
2	I.BLK	PO110348.D	10 Apr 2025 09:17	YP/AJ	Ok
3	AR1660ICC1000	PO110349.D	10 Apr 2025 09:36	YP/AJ	Ok
4	AR1660ICC750	PO110350.D	10 Apr 2025 09:54	YP/AJ	Ok
5	AR1660ICC500	PO110351.D	10 Apr 2025 10:13	YP/AJ	Ok
6	AR1660ICC250	PO110352.D	10 Apr 2025 10:31	YP/AJ	Ok
7	AR1660ICC050	PO110353.D	10 Apr 2025 10:49	YP/AJ	Ok
8	AR1221ICC500	PO110354.D	10 Apr 2025 11:08	YP/AJ	Ok
9	AR1232ICC500	PO110355.D	10 Apr 2025 11:26	YP/AJ	Ok
10	AR1242ICC1000	PO110356.D	10 Apr 2025 11:44	YP/AJ	Ok
11	AR1242ICC750	PO110357.D	10 Apr 2025 12:03	YP/AJ	Ok
12	AR1242ICC500	PO110358.D	10 Apr 2025 12:21	YP/AJ	Ok
13	AR1242ICC250	PO110359.D	10 Apr 2025 12:39	YP/AJ	Ok
14	AR1242ICC050	PO110360.D	10 Apr 2025 12:58	YP/AJ	Ok
15	AR1248ICC1000	PO110361.D	10 Apr 2025 13:16	YP/AJ	Ok
16	AR1248ICC750	PO110362.D	10 Apr 2025 13:35	YP/AJ	Ok
17	AR1248ICC500	PO110363.D	10 Apr 2025 13:53	YP/AJ	Ok
18	AR1248ICC250	PO110364.D	10 Apr 2025 14:11	YP/AJ	Ok
19	AR1248ICC050	PO110365.D	10 Apr 2025 14:30	YP/AJ	Ok
20	AR1254ICC1000	PO110366.D	10 Apr 2025 14:48	YP/AJ	Ok
21	AR1254ICC750	PO110367.D	10 Apr 2025 15:06	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO041025

Review By	yogesh	Review On	4/10/2025 11:27:35 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:29 AM		
SubDirectory	PO041025	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PO110368.D	10 Apr 2025 15:25	YP/AJ	Ok
23	AR1254ICC250	PO110369.D	10 Apr 2025 15:43	YP/AJ	Ok
24	AR1254ICC050	PO110370.D	10 Apr 2025 16:02	YP/AJ	Ok
25	AR1262ICC500	PO110371.D	10 Apr 2025 16:20	YP/AJ	Ok
26	AR1268ICC1000	PO110372.D	10 Apr 2025 16:38	YP/AJ	Ok
27	AR1268ICC750	PO110373.D	10 Apr 2025 16:57	YP/AJ	Ok
28	AR1268ICC500	PO110374.D	10 Apr 2025 17:15	YP/AJ	Ok
29	AR1268ICC250	PO110375.D	10 Apr 2025 17:33	YP/AJ	Ok
30	AR1268ICC050	PO110376.D	10 Apr 2025 17:52	YP/AJ	Ok
31	PO041025ICV500	PO110377.D	10 Apr 2025 18:09	YP/AJ	Ok
32	AR1242ICV500	PO110378.D	10 Apr 2025 18:46	YP/AJ	Ok
33	AR1248ICV500	PO110379.D	10 Apr 2025 19:22	YP/AJ	Ok
34	AR1254ICV500	PO110380.D	10 Apr 2025 19:58	YP/AJ	Ok
35	AR1268ICV500	PO110381.D	10 Apr 2025 20:35	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO042925

Review By	yogesh	Review On	4/29/2025 11:07:42 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:51:07 AM		
SubDirectory	PO042925	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO110845.D	29 Apr 2025 09:06	YP/AJ	Ok
2	AR1660CCC500	PO110846.D	29 Apr 2025 09:24	YP/AJ	Ok
3	AR1242CCC500	PO110847.D	29 Apr 2025 09:45	YP/AJ	Ok
4	AR1248CCC500	PO110848.D	29 Apr 2025 10:03	YP/AJ	Ok
5	AR1254CCC500	PO110849.D	29 Apr 2025 10:21	YP/AJ	Ok
6	I.BLK	PO110850.D	29 Apr 2025 10:40	YP/AJ	Ok
7	PB167765BL	PO110851.D	29 Apr 2025 10:58	YP/AJ	Not Ok
8	Q1889-01	PO110852.D	29 Apr 2025 11:16	YP/AJ	Ok
9	Q1889-01MS	PO110853.D	29 Apr 2025 11:35	YP/AJ	Ok
10	Q1889-01MSD	PO110854.D	29 Apr 2025 11:53	YP/AJ	Ok
11	Q1860-34DL	PO110855.D	29 Apr 2025 12:11	YP/AJ	Ok,M
12	Q1901-05	PO110856.D	29 Apr 2025 13:36	YP/AJ	Ok
13	Q1902-02	PO110857.D	29 Apr 2025 13:54	YP/AJ	Ok,M
14	Q1903-01	PO110858.D	29 Apr 2025 14:12	YP/AJ	Ok
15	Q1903-02	PO110859.D	29 Apr 2025 14:31	YP/AJ	Ok
16	Q1903-03	PO110860.D	29 Apr 2025 14:49	YP/AJ	Ok
17	AR1660CCC500	PO110861.D	29 Apr 2025 15:58	YP/AJ	Ok
18	AR1242CCC500	PO110862.D	29 Apr 2025 16:35	YP/AJ	Ok
19	AR1248CCC500	PO110863.D	29 Apr 2025 16:53	YP/AJ	Ok
20	AR1254CCC500	PO110864.D	29 Apr 2025 17:11	YP/AJ	Ok
21	I.BLK	PO110865.D	29 Apr 2025 17:29	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO042925

Review By	yogesh	Review On	4/29/2025 11:07:42 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:51:07 AM		
SubDirectory	PO042925	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1904-01	PO110866.D	29 Apr 2025 17:48	YP/AJ	Ok
23	Q1904-01MS	PO110867.D	29 Apr 2025 18:05	YP/AJ	Ok
24	Q1904-01MSD	PO110868.D	29 Apr 2025 18:23	YP/AJ	Ok
25	Q1906-01	PO110869.D	29 Apr 2025 18:42	YP/AJ	Ok
26	Q1906-05	PO110870.D	29 Apr 2025 19:00	YP/AJ	Ok
27	Q1906-09	PO110871.D	29 Apr 2025 19:19	YP/AJ	Ok,M
28	Q1906-13	PO110872.D	29 Apr 2025 19:37	YP/AJ	Ok
29	Q1897-01	PO110873.D	29 Apr 2025 19:55	YP/AJ	Ok,M
30	Q1901-06	PO110874.D	29 Apr 2025 20:14	YP/AJ	Ok
31	Q1897-02	PO110875.D	29 Apr 2025 20:32	YP/AJ	Ok,M
32	AR1660CCC500	PO110876.D	29 Apr 2025 22:00	YP/AJ	Ok
33	AR1242CCC500	PO110877.D	29 Apr 2025 22:36	YP/AJ	Ok
34	AR1248CCC500	PO110878.D	29 Apr 2025 22:55	YP/AJ	Ok
35	AR1254CCC500	PO110879.D	29 Apr 2025 23:13	YP/AJ	Ok
36	I.BLK	PO110880.D	29 Apr 2025 23:31	YP/AJ	Ok
37	PB167790BL	PO110881.D	29 Apr 2025 23:50	YP/AJ	Ok
38	PB167790BS	PO110882.D	30 Apr 2025 00:08	YP/AJ	Ok
39	Q1909-01	PO110883.D	30 Apr 2025 00:26	YP/AJ	Ok,M
40	Q1909-02	PO110884.D	30 Apr 2025 00:45	YP/AJ	Ok,M
41	AR1660CCC500	PO110885.D	30 Apr 2025 02:11	YP/AJ	Ok
42	AR1242CCC500	PO110886.D	30 Apr 2025 02:48	YP/AJ	Ok
43	AR1248CCC500	PO110887.D	30 Apr 2025 03:06	YP/AJ	Ok
44	AR1254CCC500	PO110888.D	30 Apr 2025 03:25	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO042925

Review By	yogesh	Review On	4/29/2025 11:07:42 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:51:07 AM		
SubDirectory	PO042925	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	I.BLK	PO110889.D	30 Apr 2025 03:43	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042225

Review By	yogesh	Review On	4/22/2025 1:34:56 PM		
Supervise By	mohammad	Supervise On	4/24/2025 6:33:42 AM		
SubDirectory	PP042225	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP071387.D	22 Apr 2025 09:56	YP\AJ	Ok
2	I.BLK	PP071388.D	22 Apr 2025 10:13	YP\AJ	Ok
3	AR1660ICC1000	PP071389.D	22 Apr 2025 10:29	YP\AJ	Ok
4	AR1660ICC750	PP071390.D	22 Apr 2025 10:45	YP\AJ	Ok
5	AR1660ICC500	PP071391.D	22 Apr 2025 11:02	YP\AJ	Ok
6	AR1660ICC250	PP071392.D	22 Apr 2025 11:18	YP\AJ	Ok
7	AR1660ICC050	PP071393.D	22 Apr 2025 11:34	YP\AJ	Ok,M
8	AR1221ICC500	PP071394.D	22 Apr 2025 11:51	YP\AJ	Ok
9	AR1232ICC500	PP071395.D	22 Apr 2025 12:07	YP\AJ	Ok
10	AR1242ICC1000	PP071396.D	22 Apr 2025 12:23	YP\AJ	Ok
11	AR1242ICC750	PP071397.D	22 Apr 2025 12:39	YP\AJ	Ok
12	AR1242ICC500	PP071398.D	22 Apr 2025 12:56	YP\AJ	Ok
13	AR1242ICC250	PP071399.D	22 Apr 2025 13:12	YP\AJ	Ok
14	AR1242ICC050	PP071400.D	22 Apr 2025 13:28	YP\AJ	Ok
15	AR1248ICC1000	PP071401.D	22 Apr 2025 13:45	YP\AJ	Ok
16	AR1248ICC750	PP071402.D	22 Apr 2025 14:01	YP\AJ	Ok
17	AR1248ICC500	PP071403.D	22 Apr 2025 14:17	YP\AJ	Ok
18	AR1248ICC250	PP071404.D	22 Apr 2025 14:33	YP\AJ	Ok
19	AR1248ICC050	PP071405.D	22 Apr 2025 14:50	YP\AJ	Ok
20	AR1254ICC1000	PP071406.D	22 Apr 2025 15:06	YP\AJ	Ok
21	AR1254ICC750	PP071407.D	22 Apr 2025 15:22	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042225

Review By	yogesh	Review On	4/22/2025 1:34:56 PM		
Supervise By	mohammad	Supervise On	4/24/2025 6:33:42 AM		
SubDirectory	PP042225	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP071408.D	22 Apr 2025 15:38	YP\AJ	Ok
23	AR1254ICC250	PP071409.D	22 Apr 2025 15:55	YP\AJ	Ok
24	AR1254ICC050	PP071410.D	22 Apr 2025 16:11	YP\AJ	Ok,M
25	AR1262ICC500	PP071411.D	22 Apr 2025 16:27	YP\AJ	Ok
26	AR1268ICC1000	PP071412.D	22 Apr 2025 16:44	YP\AJ	Ok,M
27	AR1268ICC750	PP071413.D	22 Apr 2025 17:00	YP\AJ	Ok,M
28	AR1268ICC500	PP071414.D	22 Apr 2025 17:16	YP\AJ	Ok,M
29	AR1268ICC250	PP071415.D	22 Apr 2025 17:33	YP\AJ	Ok,M
30	AR1268ICC050	PP071416.D	22 Apr 2025 17:49	YP\AJ	Ok,M
31	PP042225ICV500	PP071417.D	22 Apr 2025 18:05	YP\AJ	Ok
32	AR1242ICV500	PP071418.D	22 Apr 2025 18:38	YP\AJ	Ok
33	AR1248ICV500	PP071419.D	22 Apr 2025 19:27	YP\AJ	Ok
34	AR1254ICV500	PP071420.D	22 Apr 2025 19:43	YP\AJ	Ok
35	AR1268ICV500	PP071421.D	22 Apr 2025 20:16	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042925

Review By	yogesh	Review On	4/29/2025 11:08:35 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:54:00 AM		
SubDirectory	PP042925	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP071598.D	29 Apr 2025 10:16	YP\AJ	Ok
2	AR1660CCC500	PP071599.D	29 Apr 2025 10:33	YP\AJ	Ok
3	AR1242CCC500	PP071600.D	29 Apr 2025 10:51	YP\AJ	Ok
4	AR1248CCC500	PP071601.D	29 Apr 2025 11:07	YP\AJ	Ok
5	AR1254CCC500	PP071602.D	29 Apr 2025 11:24	YP\AJ	Ok
6	I.BLK	PP071603.D	29 Apr 2025 11:40	YP\AJ	Ok
7	Q1860-35DL	PP071604.D	29 Apr 2025 11:56	YP\AJ	Ok,M
8	Q1884-01DL	PP071605.D	29 Apr 2025 12:12	YP\AJ	Ok,M
9	Q1884-02DL	PP071606.D	29 Apr 2025 12:29	YP\AJ	Ok,M
10	PB167776BL	PP071607.D	29 Apr 2025 13:30	YP\AJ	Ok
11	PB167776BS	PP071608.D	29 Apr 2025 13:46	YP\AJ	Ok
12	Q1883-01	PP071609.D	29 Apr 2025 14:02	YP\AJ	Ok,M
13	Q1883-03	PP071610.D	29 Apr 2025 14:19	YP\AJ	Ok
14	Q1883-05	PP071611.D	29 Apr 2025 14:35	YP\AJ	Ok
15	Q1883-07	PP071612.D	29 Apr 2025 14:51	YP\AJ	Ok
16	Q1883-09	PP071613.D	29 Apr 2025 15:08	YP\AJ	Ok
17	AR1660CCC500	PP071614.D	29 Apr 2025 16:29	YP\AJ	Ok
18	AR1242CCC500	PP071615.D	29 Apr 2025 17:02	YP\AJ	Ok
19	AR1248CCC500	PP071616.D	29 Apr 2025 17:18	YP\AJ	Ok
20	AR1254CCC500	PP071617.D	29 Apr 2025 17:34	YP\AJ	Ok
21	I.BLK	PP071618.D	29 Apr 2025 17:51	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042925

Review By	yogesh	Review On	4/29/2025 11:08:35 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:54:00 AM		
SubDirectory	PP042925	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1883-11	PP071619.D	29 Apr 2025 18:07	YP\AJ	Ok
23	Q1883-13	PP071620.D	29 Apr 2025 18:23	YP\AJ	Ok
24	Q1883-15	PP071621.D	29 Apr 2025 18:40	YP\AJ	Ok
25	Q1901-02	PP071622.D	29 Apr 2025 18:56	YP\AJ	Ok,M
26	Q1901-04	PP071623.D	29 Apr 2025 19:12	YP\AJ	Ok
27	PB167782BL	PP071624.D	29 Apr 2025 19:29	YP\AJ	Ok
28	PB167782BS	PP071625.D	29 Apr 2025 19:45	YP\AJ	Ok
29	PB167782BSD	PP071626.D	29 Apr 2025 20:01	YP\AJ	Ok
30	Q1890-01	PP071627.D	29 Apr 2025 20:18	YP\AJ	Ok
31	Q1896-03	PP071628.D	29 Apr 2025 20:34	YP\AJ	Ok,M
32	AR1660CCC500	PP071629.D	29 Apr 2025 21:55	YP\AJ	Ok
33	AR1242CCC500	PP071630.D	29 Apr 2025 22:28	YP\AJ	Ok
34	AR1248CCC500	PP071631.D	29 Apr 2025 22:44	YP\AJ	Ok
35	AR1254CCC500	PP071632.D	29 Apr 2025 23:01	YP\AJ	Ok,M
36	I.BLK	PP071633.D	29 Apr 2025 23:17	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP043025

Review By	yogesh	Review On	4/30/2025 11:33:57 AM		
Supervise By	mohammad	Supervise On	5/2/2025 3:18:29 AM		
SubDirectory	PP043025	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP071634.D	30 Apr 2025 08:51	YP\AJ	Ok
2	AR1660CCC500	PP071635.D	30 Apr 2025 09:07	YP\AJ	Ok
3	AR1242CCC500	PP071636.D	30 Apr 2025 09:28	YP\AJ	Ok
4	AR1248CCC500	PP071637.D	30 Apr 2025 09:45	YP\AJ	Ok
5	AR1254CCC500	PP071638.D	30 Apr 2025 10:01	YP\AJ	Ok,M
6	I.BLK	PP071639.D	30 Apr 2025 10:17	YP\AJ	Ok
7	Q1867-01DL	PP071640.D	30 Apr 2025 11:09	YP\AJ	Ok,M
8	PB167794BL	PP071641.D	30 Apr 2025 12:39	YP\AJ	Ok
9	PB167794BS	PP071642.D	30 Apr 2025 12:56	YP\AJ	Ok
10	Q1901-03	PP071643.D	30 Apr 2025 13:12	YP\AJ	Ok,M
11	Q1905-01	PP071644.D	30 Apr 2025 13:28	YP\AJ	Ok,M
12	Q1860-09	PP071645.D	30 Apr 2025 13:44	YP\AJ	Dilution
13	Q1860-09DL	PP071646.D	30 Apr 2025 14:01	YP\AJ	Ok,M
14	Q1910-01	PP071647.D	30 Apr 2025 14:33	YP\AJ	Ok,M
15	Q1910-01MS	PP071648.D	30 Apr 2025 14:49	YP\AJ	Ok,M
16	Q1910-01MSD	PP071649.D	30 Apr 2025 15:05	YP\AJ	Ok,M
17	AR1660CCC500	PP071650.D	30 Apr 2025 16:11	YP\AJ	Ok
18	AR1242CCC500	PP071651.D	30 Apr 2025 16:27	YP\AJ	Ok
19	AR1248CCC500	PP071652.D	30 Apr 2025 16:43	YP\AJ	Ok
20	AR1254CCC500	PP071653.D	30 Apr 2025 17:00	YP\AJ	Ok,M
21	I.BLK	PP071654.D	30 Apr 2025 17:16	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP043025

Review By	yogesh	Review On	4/30/2025 11:33:57 AM		
Supervise By	mohammad	Supervise On	5/2/2025 3:18:29 AM		
SubDirectory	PP043025	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1911-01	PP071655.D	30 Apr 2025 17:33	YP\AJ	Ok,M
23	Q1912-01	PP071656.D	30 Apr 2025 17:49	YP\AJ	Ok,M
24	Q1912-05	PP071657.D	30 Apr 2025 18:06	YP\AJ	Ok,M
25	Q1905-05	PP071658.D	30 Apr 2025 18:22	YP\AJ	Ok,M
26	Q1907-01	PP071659.D	30 Apr 2025 18:38	YP\AJ	Ok,M
27	Q1921-01	PP071660.D	30 Apr 2025 18:55	YP\AJ	Ok,M
28	Q1921-02	PP071661.D	30 Apr 2025 19:11	YP\AJ	Ok,M
29	Q1921-03	PP071662.D	30 Apr 2025 19:27	YP\AJ	Ok,M
30	Q1921-04	PP071663.D	30 Apr 2025 19:44	YP\AJ	Ok,M
31	Q1921-05	PP071664.D	30 Apr 2025 20:00	YP\AJ	Ok,M
32	AR1660CCC500	PP071665.D	30 Apr 2025 21:38	YP\AJ	Ok
33	AR1242CCC500	PP071666.D	30 Apr 2025 22:11	YP\AJ	Ok
34	AR1248CCC500	PP071667.D	30 Apr 2025 22:27	YP\AJ	Ok
35	AR1254CCC500	PP071668.D	30 Apr 2025 22:44	YP\AJ	Ok,M
36	I.BLK	PP071669.D	30 Apr 2025 23:00	YP\AJ	Ok,M
37	PB167809BL	PP071670.D	30 Apr 2025 23:16	YP\AJ	Ok
38	PB167809BS	PP071671.D	30 Apr 2025 23:33	YP\AJ	Ok
39	Q1921-06	PP071672.D	30 Apr 2025 23:49	YP\AJ	Ok
40	Q1921-07	PP071673.D	01 May 2025 00:05	YP\AJ	Ok,M
41	Q1921-08	PP071674.D	01 May 2025 00:22	YP\AJ	Ok,M
42	AR1660CCC500	PP071675.D	01 May 2025 02:00	YP\AJ	Ok
43	AR1242CCC500	PP071676.D	01 May 2025 02:49	YP\AJ	Ok,M
44	AR1248CCC500	PP071677.D	01 May 2025 03:05	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP043025

Review By	yogesh	Review On	4/30/2025 11:33:57 AM		
Supervise By	mohammad	Supervise On	5/2/2025 3:18:29 AM		
SubDirectory	PP043025	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	AR1254CCC500	PP071678.D	01 May 2025 03:21	YP\AJ	Ok,M
46	I.BLK	PP071679.D	01 May 2025 03:38	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO041025

Review By	yogesh	Review On	4/10/2025 11:27:35 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:29 AM		
SubDirectory	PO041025	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO110347.D	10 Apr 2025 08:59		YP/AJ	Ok
2	I.BLK	I.BLK	PO110348.D	10 Apr 2025 09:17		YP/AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PO110349.D	10 Apr 2025 09:36		YP/AJ	Ok
4	AR1660ICC750	AR1660ICC750	PO110350.D	10 Apr 2025 09:54		YP/AJ	Ok
5	AR1660ICC500	AR1660ICC500	PO110351.D	10 Apr 2025 10:13		YP/AJ	Ok
6	AR1660ICC250	AR1660ICC250	PO110352.D	10 Apr 2025 10:31		YP/AJ	Ok
7	AR1660ICC050	AR1660ICC050	PO110353.D	10 Apr 2025 10:49		YP/AJ	Ok
8	AR1221ICC500	AR1221ICC500	PO110354.D	10 Apr 2025 11:08		YP/AJ	Ok
9	AR1232ICC500	AR1232ICC500	PO110355.D	10 Apr 2025 11:26		YP/AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PO110356.D	10 Apr 2025 11:44		YP/AJ	Ok
11	AR1242ICC750	AR1242ICC750	PO110357.D	10 Apr 2025 12:03		YP/AJ	Ok
12	AR1242ICC500	AR1242ICC500	PO110358.D	10 Apr 2025 12:21		YP/AJ	Ok
13	AR1242ICC250	AR1242ICC250	PO110359.D	10 Apr 2025 12:39		YP/AJ	Ok
14	AR1242ICC050	AR1242ICC050	PO110360.D	10 Apr 2025 12:58		YP/AJ	Ok
15	AR1248ICC1000	AR1248ICC1000	PO110361.D	10 Apr 2025 13:16		YP/AJ	Ok
16	AR1248ICC750	AR1248ICC750	PO110362.D	10 Apr 2025 13:35		YP/AJ	Ok
17	AR1248ICC500	AR1248ICC500	PO110363.D	10 Apr 2025 13:53		YP/AJ	Ok
18	AR1248ICC250	AR1248ICC250	PO110364.D	10 Apr 2025 14:11		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO041025

Review By	yogesh	Review On	4/10/2025 11:27:35 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:29 AM		
SubDirectory	PO041025	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PO110365.D	10 Apr 2025 14:30		YP/AJ	Ok
20	AR1254ICC1000	AR1254ICC1000	PO110366.D	10 Apr 2025 14:48		YP/AJ	Ok
21	AR1254ICC750	AR1254ICC750	PO110367.D	10 Apr 2025 15:06		YP/AJ	Ok
22	AR1254ICC500	AR1254ICC500	PO110368.D	10 Apr 2025 15:25		YP/AJ	Ok
23	AR1254ICC250	AR1254ICC250	PO110369.D	10 Apr 2025 15:43		YP/AJ	Ok
24	AR1254ICC050	AR1254ICC050	PO110370.D	10 Apr 2025 16:02		YP/AJ	Ok
25	AR1262ICC500	AR1262ICC500	PO110371.D	10 Apr 2025 16:20		YP/AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PO110372.D	10 Apr 2025 16:38		YP/AJ	Ok
27	AR1268ICC750	AR1268ICC750	PO110373.D	10 Apr 2025 16:57		YP/AJ	Ok
28	AR1268ICC500	AR1268ICC500	PO110374.D	10 Apr 2025 17:15		YP/AJ	Ok
29	AR1268ICC250	AR1268ICC250	PO110375.D	10 Apr 2025 17:33		YP/AJ	Ok
30	AR1268ICC050	AR1268ICC050	PO110376.D	10 Apr 2025 17:52		YP/AJ	Ok
31	PO041025ICV500	ICVPO041025	PO110377.D	10 Apr 2025 18:09		YP/AJ	Ok
32	AR1242ICV500	ICVPO041025AR1242	PO110378.D	10 Apr 2025 18:46		YP/AJ	Ok
33	AR1248ICV500	ICVPO041025AR1248	PO110379.D	10 Apr 2025 19:22		YP/AJ	Ok
34	AR1254ICV500	ICVPO041025AR1254	PO110380.D	10 Apr 2025 19:58		YP/AJ	Ok
35	AR1268ICV500	ICVPO041025AR1268	PO110381.D	10 Apr 2025 20:35		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO042925

Review By	yogesh	Review On	4/29/2025 11:07:42 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:51:07 AM		
SubDirectory	PO042925	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO110845.D	29 Apr 2025 09:06		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO110846.D	29 Apr 2025 09:24		YP/AJ	Ok
3	AR1242CCC500	AR1242CCC500	PO110847.D	29 Apr 2025 09:45		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO110848.D	29 Apr 2025 10:03		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO110849.D	29 Apr 2025 10:21		YP/AJ	Ok
6	I.BLK	I.BLK	PO110850.D	29 Apr 2025 10:40		YP/AJ	Ok
7	PB167765BL	PB167765BL	PO110851.D	29 Apr 2025 10:58		YP/AJ	Not Ok
8	Q1889-01	COMP-1	PO110852.D	29 Apr 2025 11:16		YP/AJ	Ok
9	Q1889-01MS	COMP-1MS	PO110853.D	29 Apr 2025 11:35		YP/AJ	Ok
10	Q1889-01MSD	COMP-1MSD	PO110854.D	29 Apr 2025 11:53		YP/AJ	Ok
11	Q1860-34DL	P001-SS028-01DL	PO110855.D	29 Apr 2025 12:11	AR1248 + AR1254 + AR1260 Hit, DCB High in both column	YP/AJ	Ok,M
12	Q1901-05	B-170-SB02	PO110856.D	29 Apr 2025 13:36		YP/AJ	Ok
13	Q1902-02	343	PO110857.D	29 Apr 2025 13:54		YP/AJ	Ok,M
14	Q1903-01	COMP-4	PO110858.D	29 Apr 2025 14:12		YP/AJ	Ok
15	Q1903-02	COMP-5	PO110859.D	29 Apr 2025 14:31		YP/AJ	Ok
16	Q1903-03	COMP-6	PO110860.D	29 Apr 2025 14:49		YP/AJ	Ok
17	AR1660CCC500	AR1660CCC500	PO110861.D	29 Apr 2025 15:58		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO042925

Review By	yogesh	Review On	4/29/2025 11:07:42 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:51:07 AM		
SubDirectory	PO042925	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	AR1242CCC500	AR1242CCC500	PO110862.D	29 Apr 2025 16:35		YP/AJ	Ok
19	AR1248CCC500	AR1248CCC500	PO110863.D	29 Apr 2025 16:53		YP/AJ	Ok
20	AR1254CCC500	AR1254CCC500	PO110864.D	29 Apr 2025 17:11		YP/AJ	Ok
21	I.BLK	I.BLK	PO110865.D	29 Apr 2025 17:29		YP/AJ	Ok
22	Q1904-01	VNJ-210	PO110866.D	29 Apr 2025 17:48		YP/AJ	Ok
23	Q1904-01MS	VNJ-210MS	PO110867.D	29 Apr 2025 18:05		YP/AJ	Ok
24	Q1904-01MSD	VNJ-210MSD	PO110868.D	29 Apr 2025 18:23		YP/AJ	Ok
25	Q1906-01	WC-4	PO110869.D	29 Apr 2025 18:42		YP/AJ	Ok
26	Q1906-05	WC-5	PO110870.D	29 Apr 2025 19:00		YP/AJ	Ok
27	Q1906-09	WC-6	PO110871.D	29 Apr 2025 19:19		YP/AJ	Ok,M
28	Q1906-13	WC-7	PO110872.D	29 Apr 2025 19:37		YP/AJ	Ok
29	Q1897-01	40125	PO110873.D	29 Apr 2025 19:55	AR1242 Hit	YP/AJ	Ok,M
30	Q1901-06	FB04262025	PO110874.D	29 Apr 2025 20:14		YP/AJ	Ok
31	Q1897-02	41425	PO110875.D	29 Apr 2025 20:32		YP/AJ	Ok,M
32	AR1660CCC500	AR1660CCC500	PO110876.D	29 Apr 2025 22:00		YP/AJ	Ok
33	AR1242CCC500	AR1242CCC500	PO110877.D	29 Apr 2025 22:36		YP/AJ	Ok
34	AR1248CCC500	AR1248CCC500	PO110878.D	29 Apr 2025 22:55		YP/AJ	Ok
35	AR1254CCC500	AR1254CCC500	PO110879.D	29 Apr 2025 23:13		YP/AJ	Ok
36	I.BLK	I.BLK	PO110880.D	29 Apr 2025 23:31		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO042925

Review By	yogesh	Review On	4/29/2025 11:07:42 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:51:07 AM		
SubDirectory	PO042925	HP Acquire Method		HP Processing Method	PO041025

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	PB167790BL	PB167790BL	PO110881.D	29 Apr 2025 23:50		YP/AJ	Ok
38	PB167790BS	PB167790BS	PO110882.D	30 Apr 2025 00:08		YP/AJ	Ok
39	Q1909-01	KMH358F-1-1	PO110883.D	30 Apr 2025 00:26	AR1254 Hit	YP/AJ	Ok,M
40	Q1909-02	KMH358F-1-2	PO110884.D	30 Apr 2025 00:45	AR1254 Hit	YP/AJ	Ok,M
41	AR1660CCC500	AR1660CCC500	PO110885.D	30 Apr 2025 02:11		YP/AJ	Ok
42	AR1242CCC500	AR1242CCC500	PO110886.D	30 Apr 2025 02:48		YP/AJ	Ok
43	AR1248CCC500	AR1248CCC500	PO110887.D	30 Apr 2025 03:06		YP/AJ	Ok
44	AR1254CCC500	AR1254CCC500	PO110888.D	30 Apr 2025 03:25		YP/AJ	Ok
45	I.BLK	I.BLK	PO110889.D	30 Apr 2025 03:43		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042225

Review By	yogesh	Review On	4/22/2025 1:34:56 PM		
Supervise By	mohammad	Supervise On	4/24/2025 6:33:42 AM		
SubDirectory	PP042225	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP071387.D	22 Apr 2025 09:56		YP\AJ	Ok
2	I.BLK	I.BLK	PP071388.D	22 Apr 2025 10:13		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP071389.D	22 Apr 2025 10:29		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP071390.D	22 Apr 2025 10:45		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP071391.D	22 Apr 2025 11:02		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP071392.D	22 Apr 2025 11:18		YP\AJ	Ok
7	AR1660ICC050	AR1660ICC050	PP071393.D	22 Apr 2025 11:34		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP071394.D	22 Apr 2025 11:51		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP071395.D	22 Apr 2025 12:07		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP071396.D	22 Apr 2025 12:23		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP071397.D	22 Apr 2025 12:39		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP071398.D	22 Apr 2025 12:56		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP071399.D	22 Apr 2025 13:12		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP071400.D	22 Apr 2025 13:28		YP\AJ	Ok
15	AR1248ICC1000	AR1248ICC1000	PP071401.D	22 Apr 2025 13:45		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP071402.D	22 Apr 2025 14:01		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP071403.D	22 Apr 2025 14:17		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP071404.D	22 Apr 2025 14:33		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042225

Review By	yogesh	Review On	4/22/2025 1:34:56 PM		
Supervise By	mohammad	Supervise On	4/24/2025 6:33:42 AM		
SubDirectory	PP042225	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP071405.D	22 Apr 2025 14:50		YP\AJ	Ok
20	AR1254ICC1000	AR1254ICC1000	PP071406.D	22 Apr 2025 15:06		YP\AJ	Ok
21	AR1254ICC750	AR1254ICC750	PP071407.D	22 Apr 2025 15:22		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP071408.D	22 Apr 2025 15:38		YP\AJ	Ok
23	AR1254ICC250	AR1254ICC250	PP071409.D	22 Apr 2025 15:55		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP071410.D	22 Apr 2025 16:11		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP071411.D	22 Apr 2025 16:27		YP\AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP071412.D	22 Apr 2025 16:44		YP\AJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP071413.D	22 Apr 2025 17:00		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP071414.D	22 Apr 2025 17:16		YP\AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP071415.D	22 Apr 2025 17:33		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP071416.D	22 Apr 2025 17:49		YP\AJ	Ok,M
31	PP042225ICV500	ICVPP042225	PP071417.D	22 Apr 2025 18:05		YP\AJ	Ok
32	AR1242ICV500	ICVPP042225AR1242	PP071418.D	22 Apr 2025 18:38		YP\AJ	Ok
33	AR1248ICV500	ICVPP042225AR1248	PP071419.D	22 Apr 2025 19:27		YP\AJ	Ok
34	AR1254ICV500	ICVPP042225AR1254	PP071420.D	22 Apr 2025 19:43		YP\AJ	Ok
35	AR1268ICV500	ICVPP042225AR1268	PP071421.D	22 Apr 2025 20:16		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042925

Review By	yogesh	Review On	4/29/2025 11:08:35 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:54:00 AM		
SubDirectory	PP042925	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP071598.D	29 Apr 2025 10:16		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP071599.D	29 Apr 2025 10:33		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP071600.D	29 Apr 2025 10:51		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP071601.D	29 Apr 2025 11:07		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP071602.D	29 Apr 2025 11:24		YP\AJ	Ok
6	I.BLK	I.BLK	PP071603.D	29 Apr 2025 11:40		YP\AJ	Ok
7	Q1860-35DL	P001-SS029-01DL	PP071604.D	29 Apr 2025 11:56	AR1248+AR1254+AR1260 Hit	YP\AJ	Ok,M
8	Q1884-01DL	P001-SS037-01DL	PP071605.D	29 Apr 2025 12:12	AR1248 + AR1254 + AR1260 Hit, DCB High in both col, TCMX High in 2nd col	YP\AJ	Ok,M
9	Q1884-02DL	P001-SS038-01DL	PP071606.D	29 Apr 2025 12:29	AR1254 + AR1260 Hit, DCB High in both col	YP\AJ	Ok,M
10	PB167776BL	PB167776BL	PP071607.D	29 Apr 2025 13:30		YP\AJ	Ok
11	PB167776BS	PB167776BS	PP071608.D	29 Apr 2025 13:46		YP\AJ	Ok
12	Q1883-01	OU4-PCS-TC-27-04232	PP071609.D	29 Apr 2025 14:02		YP\AJ	Ok,M
13	Q1883-03	OU4-PCS-TC-28-04232	PP071610.D	29 Apr 2025 14:19		YP\AJ	Ok
14	Q1883-05	OU4-PCS-TC-29-04232	PP071611.D	29 Apr 2025 14:35		YP\AJ	Ok
15	Q1883-07	OU4-PCS-TC-30-04232	PP071612.D	29 Apr 2025 14:51		YP\AJ	Ok
16	Q1883-09	OU4-PCS-TC-31-04232	PP071613.D	29 Apr 2025 15:08		YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP071614.D	29 Apr 2025 16:29		YP\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PP042925

Review By	yogesh	Review On	4/29/2025 11:08:35 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:54:00 AM		
SubDirectory	PP042925	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	AR1242CCC500	AR1242CCC500	PP071615.D	29 Apr 2025 17:02		YP\AJ	Ok
19	AR1248CCC500	AR1248CCC500	PP071616.D	29 Apr 2025 17:18		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP071617.D	29 Apr 2025 17:34		YP\AJ	Ok
21	I.BLK	I.BLK	PP071618.D	29 Apr 2025 17:51		YP\AJ	Ok
22	Q1883-11	OU4-PCS-TC-32-04232	PP071619.D	29 Apr 2025 18:07		YP\AJ	Ok
23	Q1883-13	OU4-VSL-18-042325	PP071620.D	29 Apr 2025 18:23		YP\AJ	Ok
24	Q1883-15	OU4-VSL-19-042325	PP071621.D	29 Apr 2025 18:40		YP\AJ	Ok
25	Q1901-02	B-167-SB01	PP071622.D	29 Apr 2025 18:56		YP\AJ	Ok,M
26	Q1901-04	B-167-SB02	PP071623.D	29 Apr 2025 19:12		YP\AJ	Ok
27	PB167782BL	PB167782BL	PP071624.D	29 Apr 2025 19:29		YP\AJ	Ok
28	PB167782BS	PB167782BS	PP071625.D	29 Apr 2025 19:45		YP\AJ	Ok
29	PB167782BSD	PB167782BSD	PP071626.D	29 Apr 2025 20:01		YP\AJ	Ok
30	Q1890-01	TW-WTS-07	PP071627.D	29 Apr 2025 20:18		YP\AJ	Ok
31	Q1896-03	295-BERGEN-FRAC	PP071628.D	29 Apr 2025 20:34		YP\AJ	Ok,M
32	AR1660CCC500	AR1660CCC500	PP071629.D	29 Apr 2025 21:55		YP\AJ	Ok
33	AR1242CCC500	AR1242CCC500	PP071630.D	29 Apr 2025 22:28		YP\AJ	Ok
34	AR1248CCC500	AR1248CCC500	PP071631.D	29 Apr 2025 22:44		YP\AJ	Ok
35	AR1254CCC500	AR1254CCC500	PP071632.D	29 Apr 2025 23:01		YP\AJ	Ok,M
36	I.BLK	I.BLK	PP071633.D	29 Apr 2025 23:17		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP042925

Review By	yogesh	Review On	4/29/2025 11:08:35 AM		
Supervise By	mohammad	Supervise On	5/2/2025 2:54:00 AM		
SubDirectory	PP042925	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP043025

Review By	yogesh	Review On	4/30/2025 11:33:57 AM		
Supervise By	mohammad	Supervise On	5/2/2025 3:18:29 AM		
SubDirectory	PP043025	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP071634.D	30 Apr 2025 08:51		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP071635.D	30 Apr 2025 09:07		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP071636.D	30 Apr 2025 09:28		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP071637.D	30 Apr 2025 09:45		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP071638.D	30 Apr 2025 10:01		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP071639.D	30 Apr 2025 10:17		YP\AJ	Ok
7	Q1867-01DL	RBR200059DL	PP071640.D	30 Apr 2025 11:09	AR1248 + AR1254 Hit	YP\AJ	Ok,M
8	PB167794BL	PB167794BL	PP071641.D	30 Apr 2025 12:39		YP\AJ	Ok
9	PB167794BS	PB167794BS	PP071642.D	30 Apr 2025 12:56		YP\AJ	Ok
10	Q1901-03	B-170-SB01	PP071643.D	30 Apr 2025 13:12		YP\AJ	Ok,M
11	Q1905-01	MH-G	PP071644.D	30 Apr 2025 13:28		YP\AJ	Ok,M
12	Q1860-09	P001-SS006-01	PP071645.D	30 Apr 2025 13:44	AR1260 Hit, Need 5X Dilution	YP\AJ	Dilution
13	Q1860-09DL	P001-SS006-01DL	PP071646.D	30 Apr 2025 14:01	AR1260 Hit	YP\AJ	Ok,M
14	Q1910-01	MOO-25-0123-27	PP071647.D	30 Apr 2025 14:33		YP\AJ	Ok,M
15	Q1910-01MS	MOO-25-0123-27MS	PP071648.D	30 Apr 2025 14:49		YP\AJ	Ok,M
16	Q1910-01MSD	MOO-25-0123-27MSD	PP071649.D	30 Apr 2025 15:05		YP\AJ	Ok,M
17	AR1660CCC500	AR1660CCC500	PP071650.D	30 Apr 2025 16:11		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP071651.D	30 Apr 2025 16:27		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP043025

Review By	yogesh	Review On	4/30/2025 11:33:57 AM		
Supervise By	mohammad	Supervise On	5/2/2025 3:18:29 AM		
SubDirectory	PP043025	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP071652.D	30 Apr 2025 16:43		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP071653.D	30 Apr 2025 17:00		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP071654.D	30 Apr 2025 17:16		YP\AJ	Ok
22	Q1911-01	EO-03-04292025	PP071655.D	30 Apr 2025 17:33		YP\AJ	Ok,M
23	Q1912-01	MH-E	PP071656.D	30 Apr 2025 17:49		YP\AJ	Ok,M
24	Q1912-05	MH-F	PP071657.D	30 Apr 2025 18:06		YP\AJ	Ok,M
25	Q1905-05	MH-H	PP071658.D	30 Apr 2025 18:22		YP\AJ	Ok,M
26	Q1907-01	CO-8R-WC	PP071659.D	30 Apr 2025 18:38	AR1254 & AR1260 hits	YP\AJ	Ok,M
27	Q1921-01	BC226751-1-1	PP071660.D	30 Apr 2025 18:55		YP\AJ	Ok,M
28	Q1921-02	BC226751-1-2	PP071661.D	30 Apr 2025 19:11		YP\AJ	Ok,M
29	Q1921-03	BC274768-1-1	PP071662.D	30 Apr 2025 19:27		YP\AJ	Ok,M
30	Q1921-04	BC274768-1-2	PP071663.D	30 Apr 2025 19:44		YP\AJ	Ok,M
31	Q1921-05	BC271327-1-1	PP071664.D	30 Apr 2025 20:00		YP\AJ	Ok,M
32	AR1660CCC500	AR1660CCC500	PP071665.D	30 Apr 2025 21:38		YP\AJ	Ok
33	AR1242CCC500	AR1242CCC500	PP071666.D	30 Apr 2025 22:11		YP\AJ	Ok
34	AR1248CCC500	AR1248CCC500	PP071667.D	30 Apr 2025 22:27		YP\AJ	Ok
35	AR1254CCC500	AR1254CCC500	PP071668.D	30 Apr 2025 22:44		YP\AJ	Ok,M
36	I.BLK	I.BLK	PP071669.D	30 Apr 2025 23:00		YP\AJ	Ok,M
37	PB167809BL	PB167809BL	PP071670.D	30 Apr 2025 23:16		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP043025

Review By	yogesh	Review On	4/30/2025 11:33:57 AM		
Supervise By	mohammad	Supervise On	5/2/2025 3:18:29 AM		
SubDirectory	PP043025	HP Acquire Method		HP Processing Method	PP042225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB167809BS	PB167809BS	PP071671.D	30 Apr 2025 23:33		YP\AJ	Ok
39	Q1921-06	BC271327-1-2	PP071672.D	30 Apr 2025 23:49		YP\AJ	Ok
40	Q1921-07	BC248150-1-1	PP071673.D	01 May 2025 00:05	DCB high in 1st column	YP\AJ	Ok,M
41	Q1921-08	BC248150-1-2	PP071674.D	01 May 2025 00:22	DCB high in 2nd column	YP\AJ	Ok,M
42	AR1660CCC500	AR1660CCC500	PP071675.D	01 May 2025 02:00		YP\AJ	Ok
43	AR1242CCC500	AR1242CCC500	PP071676.D	01 May 2025 02:49		YP\AJ	Ok,M
44	AR1248CCC500	AR1248CCC500	PP071677.D	01 May 2025 03:05		YP\AJ	Ok
45	AR1254CCC500	AR1254CCC500	PP071678.D	01 May 2025 03:21		YP\AJ	Ok,M
46	I.BLK	I.BLK	PP071679.D	01 May 2025 03:38		YP\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167776

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	04/29/2025
Matrix :	Solid			**Extraction Start Time :**	08:35
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/29/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:35
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24461
Surrogate	1.0ML	200 PPB	PP24460
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2601
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Hexane	N/A	E3928
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS723.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/29/25	RS (Ext. lab)	R. Pe 8/PCB Lab
11:40	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167776

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/29/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167776BL	ABLK776	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB167776BS	ALCS776	PCB	30.03	N/A	ritesh	Evelyn	10			2
Q1883-01	OU4-PCS-TC-27-042325	PCB	30.05	N/A	ritesh	Evelyn	10	E		3
Q1883-03	OU4-PCS-TC-28-042325	PCB	30.06	N/A	ritesh	Evelyn	10	E		4
Q1883-05	OU4-PCS-TC-29-042325	PCB	30.02	N/A	ritesh	Evelyn	10	E		5
Q1883-07	OU4-PCS-TC-30-042325	PCB	30.05	N/A	ritesh	Evelyn	10	E		6
Q1883-09	OU4-PCS-TC-31-042325	PCB	30.08	N/A	ritesh	Evelyn	10	E		U1-1
Q1883-11	OU4-PCS-TC-32-042325	PCB	30.03	N/A	ritesh	Evelyn	10	E		2
Q1883-13	OU4-~~PCS~~-18-042325 VSL	PCB	30.06	N/A	ritesh	Evelyn	10	E		3
Q1883-15	OU4-~~PCS~~-19-042325 VSL	PCB	30.01	N/A	ritesh	Evelyn	10	E		4
Q1901-02	B-167-SB01	PCB	30.07	N/A	ritesh	Evelyn	10	F		5
Q1901-04	B-167-SB02	PCB	30.03	N/A	ritesh	Evelyn	10	E		6
Q1901-05	B-170-SB02	PCB	30.04	N/A	ritesh	Evelyn	10	E		U2-1
Q1902-02	343	PCB	30.05	N/A	ritesh	Evelyn	10	D		2
Q1903-01	COMP-4	PCB Group1	30.02	N/A	ritesh	Evelyn	10	E		3
Q1903-02	COMP-5	PCB Group1	30.06	N/A	ritesh	Evelyn	10	E		4
Q1903-03	COMP-6	PCB Group1	30.08	N/A	ritesh	Evelyn	10	E		5
Q1904-01	VNJ-210	PCB	30.06	N/A	ritesh	Evelyn	10	H		6
Q1904-01MS	VNJ-210MS	PCB	30.03	N/A	ritesh	Evelyn	10	H		U3-1
Q1904-01MSD	VNJ-210MSD	PCB	30.05	N/A	ritesh	Evelyn	10	H		2
Q1906-01	WC-4	PCB	30.04	N/A	ritesh	Evelyn	10	D		3
Q1906-05	WC-5	PCB	30.01	N/A	ritesh	Evelyn	10	D		4
Q1906-09	WC-6	PCB	30.09	N/A	ritesh	Evelyn	10	D		5
Q1906-13	WC-7	PCB	30.02	N/A	ritesh	Evelyn	10	D		6

RS 4/29

* **Extracts relinguished on the same date as received.**

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1883p **WorkList ID :** 189197 **Department :** Extraction **Date :** 04-29-2025 08:25:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1883-01	OU4-PCS-TC-27-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-03	OU4-PCS-TC-28-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-05	OU4-PCS-TC-29-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-07	OU4-PCS-TC-30-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-09	OU4-PCS-TC-31-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-11	OU4-PCS-TC-32-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-13	OU4-PCS-18-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1883-15	OU4-PCS-19-042325	Solid	PCB	Cool 4 deg C	NOBI03	L41	04/23/2025	8082A
Q1901-02	B-167-SB01	Solid	PCB	Cool 4 deg C	PORT06	L51	04/26/2025	8082A
Q1901-04	B-167-SB02	Solid	PCB	Cool 4 deg C	PORT06	L51	04/26/2025	8082A
Q1901-05	B-170-SB02	Solid	PCB	Cool 4 deg C	PORT06	L51	04/26/2025	8082A
Q1902-02	343	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/28/2025	8082A
Q1903-01	COMP-4	Solid	PCB Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8082A
Q1903-02	COMP-5	Solid	PCB Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8082A
Q1903-03	COMP-6	Solid	PCB Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8082A
Q1904-01	VNJ-210	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/28/2025	8082A
Q1906-01	WC-4	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/28/2025	8082A
Q1906-05	WC-5	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/28/2025	8082A
Q1906-09	WC-6	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/28/2025	8082A
Q1906-13	WC-7	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/28/2025	8082A

Date/Time 04/29/25 8:27
Raw Sample Received by: RJ (EXT-lab)
Raw Sample Relinquished by:

Date/Time 04/29/25 9:00
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EXT-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167782

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	04/29/2025
Matrix :	Water			**Extraction Start Time :**	08:55
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	04/29/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	13:35
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24461
Surrogate	1.0ML	200 PPB	PP24460
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2607
Hexane	N/A	E3928
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS723, Q1897-02 Used Limited volume as sample is oily. Q1890-01 pH Adjusted with 1:1 H2SO4.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/29/25	RS (Ext-Lab)	Y.P. PGH PA
13:40	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167782

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 04/29/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167782BL	ABLK782	PCB	1000	6	RUPESH	ritesh	10			SEP-1
PB167782BS	ALCS782	PCB	1000	6	RUPESH	ritesh	10			2
PB167782BSD	ALCSD782	PCB	1000	6	RUPESH	ritesh	10			3
Q1890-01	TW-WTS-07	PCB	960	12	RUPESH	ritesh	10	G		4
Q1896-03	295-BERGEN-FRAC	PCB	990	6	RUPESH	ritesh	10	E		5
Q1897-01	40125	PCB	980	6	RUPESH	ritesh	10	C		6
Q1897-02	41425	PCB	100	6	RUPESH	ritesh	10	C	Oily	7
Q1901-06	FB04262025	PCB	870	6	RUPESH	ritesh	10	H		8

RS 4/29

* **Extracts relinguished on the same date as received.**

167782
8:55

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1897 **WorkList ID :** 189202 **Department :** Extraction **Date :** 04-29-2025 08:38:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1890-01	TW-WTS-07	Water	PCB	Cool 4 deg C	ENTA05	L41	04/24/2025	8082A
Q1896-03	295-BERGEN-FRAC	Water	PCB	Cool 4 deg C	PSEG03	L31	04/25/2025	8082A
Q1897-01	40125	Water	PCB	Cool 4 deg C	PSEG03	L41	04/25/2025	8082A
Q1897-02	41425	Water	PCB	Cool 4 deg C	PSEG03	L41	04/25/2025	8082A
Q1901-06	FB04262025	Water	PCB	Cool 4 deg C	PORT06	L51	04/26/2025	8082A

Date/Time 4/29/25 8:50
Raw Sample Received by: RJ (EXT-lab)
Raw Sample Relinquished by:

Date/Time 4/29/25 9:25
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EXT-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167794

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	04/30/2025
Matrix :	Solid			**Extraction Start Time :**	08:35
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/30/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:35
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24461
Surrogate	1.0ML	200 PPB	PP24460
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2601
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Hexane	N/A	E3928
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS723.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/30/25	RS (EXT-Lab)	R. Pest-PCB Lab
11:40	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167794

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 04/30/2025

Sample ID	Client Sample ID	Test	g// mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167794BL	ABLK794	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB167794BS	ALCS794	PCB	30.03	N/A	ritesh	Evelyn	10			2
Q1901-03	B-170-SB01	PCB	30.04	N/A	ritesh	Evelyn	10	E		3
Q1905-01	MH-G	PCB	30.09	N/A	ritesh	Evelyn	10	D		4
Q1905-05	MH-H	PCB	30.04	N/A	ritesh	Evelyn	10	D		5
Q1907-01	CO-8R-WC	PCB	30.03	N/A	ritesh	Evelyn	10	D		6
Q1910-01	MOO-25-0123-27	PCB	30.08	N/A	ritesh	Evelyn	10	E		U1-1
Q1910-01MS	MOO-25-0123-27MS	PCB	30.02	N/A	ritesh	Evelyn	10	E		2
Q1910-01MSD	MOO-25-0123-27MSD	PCB	30.06	N/A	ritesh	Evelyn	10	E		3
Q1911-01	EO-03-04292025	PCB	30.05	N/A	ritesh	Evelyn	10	E		4
Q1912-01	MH-E	PCB	30.01	N/A	ritesh	Evelyn	10	E		5
Q1912-05	MH-F	PCB	30.03	N/A	ritesh	Evelyn	10	D		6

RS
4/30

* **Extracts relinguished on the same date as received.**

167794 8:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1905 **WorkList ID :** 189219 **Department :** Extraction **Date :** 04-30-2025 08:29:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1901-03	B-170-SB01	Solid	PCB	Cool 4 deg C	PORT06	L51	04/26/2025	8082A
Q1905-01	MH-G	Solid	PCB	Cool 4 deg C	PSEG03	L51	04/28/2025	8082A
Q1905-05	MH-H	Solid	PCB	Cool 4 deg C	PSEG03	L51	04/28/2025	8082A
Q1907-01	CO-8R-WC	Solid	PCB	Cool 4 deg C	WALS01	L51	04/28/2025	8082A
Q1910-01	MOO-25-0123-27	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/29/2025	8082A
Q1911-01	EO-03-04292025	Solid	PCB	Cool 4 deg C	PSEG05	L41	04/29/2025	8082A
Q1912-01	MH-E	Solid	PCB	Cool 4 deg C	PSEG03	L51	04/29/2025	8082A
Q1912-05	MH-F	Solid	PCB	Cool 4 deg C	PSEG03	L51	04/29/2025	8082A

Date/Time 04/30/25 8:30
Raw Sample Received by: RJ (EFI-Lab)
Raw Sample Relinquished by: SM

Date/Time 04/30/25 8:50
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EFI-Lab)

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

LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/30/25	04/30/25	
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-06	**FB04262025**	**WATER**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	

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

LAB CHRONICLE

TCLP Pesticide	8081B	05/01/25	05/01/25

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

Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Raw Data: **PS030060.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/05/25
Client Sample ID:	PB167774TB	SDG No.:	Q1901
Lab Sample ID:	PB167774TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030060.D	1	05/05/25 08:50	05/06/25 14:40	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	591		70 (39) - 130 (175)	118%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030062.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030062.D	1	05/05/25 08:50	05/06/25 15:28	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	666	*	70 (39) - 130 (175)	133%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030065.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030065.D	1	05/05/25 08:50	05/06/25 16:40	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	685	*	70 (39) - 130 (175)	137%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030066.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030066.D	1	05/05/25 08:50	05/06/25 17:04	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	711	*	70 (39) - 130 (175)	142%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030067.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030067.D	1	05/05/25 08:50	05/06/25 17:28	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	846	*	70 (39) - 130 (175)	169%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS029918.D	PIBLK-PS029918.D	2,4-DCAA	1	500	433	87		70 (39)	130 (175)
		2,4-DCAA	2	500	433	87		70 (39)	130 (175)
I.BLK-PS030051.D	PIBLK-PS030051.D	2,4-DCAA	1	500	541	108		70 (39)	130 (175)
		2,4-DCAA	2	500	561	112		70 (39)	130 (175)
PB167871BL	PB167871BL	2,4-DCAA	1	500	620	124		70 (39)	130 (175)
		2,4-DCAA	2	500	616	123		70 (39)	130 (175)
PB167871BS	PB167871BS	2,4-DCAA	1	500	555	111		70 (39)	130 (175)
		2,4-DCAA	2	500	562	112		70 (39)	130 (175)
I.BLK-PS030058.D	PIBLK-PS030058.D	2,4-DCAA	1	500	533	107		70 (39)	130 (175)
		2,4-DCAA	2	500	558	112		70 (39)	130 (175)
PB167774TB	PB167774TB	2,4-DCAA	1	500	582	116		70 (39)	130 (175)
		2,4-DCAA	2	500	591	118		70 (39)	130 (175)
Q1901-08	B-167-SB01	2,4-DCAA	1	500	666	133	*	70 (39)	130 (175)
		2,4-DCAA	2	500	577	115		70 (39)	130 (175)
Q1901-08MS	B-167-SB01MS	2,4-DCAA	1	500	690	138	*	70 (39)	130 (175)
		2,4-DCAA	2	500	577	115		70 (39)	130 (175)
Q1901-08MSD	B-167-SB01MSD	2,4-DCAA	1	500	691	138	*	70 (39)	130 (175)
		2,4-DCAA	2	500	590	118		70 (39)	130 (175)
Q1901-09	B-170-SB01	2,4-DCAA	1	500	685	137	*	70 (39)	130 (175)
		2,4-DCAA	2	500	561	112		70 (39)	130 (175)
Q1901-10	B-167-SB02	2,4-DCAA	1	500	711	142	*	70 (39)	130 (175)
		2,4-DCAA	2	500	566	113		70 (39)	130 (175)
Q1901-11	B-170-SB02	2,4-DCAA	1	500	846	169	*	70 (39)	130 (175)
		2,4-DCAA	2	500	611	122		70 (39)	130 (175)
I.BLK-PS030069.D	PIBLK-PS030069.D	2,4-DCAA	1	500	537	107		70 (39)	130 (175)
		2,4-DCAA	2	500	563	113		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS030063.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**B-167-SB01MS**											
Q1901-08MS	2,4-D	50	0	64.2	ug/L	128				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	63.4	ug/L	127				70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS030064.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-167-SB01MSD**											
Q1901-08MSD	2,4-D	50	0	67.0	ug/L	134	*	5		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	66.1	ug/L	132	*	4		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS030057.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167871BS	2,4-D	5	5.30	ug/L	106				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167871BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167871BL Lab File ID: PS030056.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/05/2025

Date Analyzed (1): 05/06/2025 Date Analyzed (2): 05/06/2025

Time Analyzed (1): 13:03 Time Analyzed (2): 13:03

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167871BS	PB167871BS	PS030057.D	05/06/2025	05/06/2025
PB167774TB	PB167774TB	PS030060.D	05/06/2025	05/06/2025
B-167-SB01	Q1901-08	PS030062.D	05/06/2025	05/06/2025
B-167-SB01MS	Q1901-08MS	PS030063.D	05/06/2025	05/06/2025
B-167-SB01MSD	Q1901-08MSD	PS030064.D	05/06/2025	05/06/2025
B-170-SB01	Q1901-09	PS030065.D	05/06/2025	05/06/2025
B-167-SB02	Q1901-10	PS030066.D	05/06/2025	05/06/2025
B-170-SB02	Q1901-11	PS030067.D	05/06/2025	05/06/2025

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167871BL	SDG No.:	Q1901
Lab Sample ID:	PB167871BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030056.D	1	05/05/25 08:50	05/06/25 13:03	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	620		70 (39) - 130 (175)	124%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/23/25
Client Sample ID:	PIBLK-PS029918.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PS029918.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029918.D	1		04/23/25	PS042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	433		70 (39) - 130 (175)	87%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/06/25
Client Sample ID:	PIBLK-PS030051.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PS030051.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030051.D	1		05/06/25	PS050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	561		70 (39) - 130 (175)	112%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/06/25
Client Sample ID:	PIBLK-PS030058.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PS030058.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030058.D	1		05/06/25	ps050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	558		70 (39) - 130 (175)	112%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/06/25
Client Sample ID:	PIBLK-PS030069.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PS030069.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030069.D	1		05/06/25	ps050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	563		70 (39) - 130 (175)	113%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030057.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167871BS	SDG No.:	Q1901
Lab Sample ID:	PB167871BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030057.D	1	05/05/25 08:50	05/06/25 13:27	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.30		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	562		70 (39) - 130 (175)	112%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030063.D	1	05/05/25 08:50	05/06/25 15:52	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	64.2		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	63.4		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	690	*	70 (39) - 130 (175)	138%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030064.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030064.D	1	05/05/25 08:50	05/06/25 16:16	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	67.0		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	66.1		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	691	*	70 (39) - 130 (175)	138%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_S **Calibration Date(s):** 04/23/2025 04/23/2025

Calibration Times: 11:01 12:37

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029919.D RT 500 = PS029920.D

RT 750 = PS029921.D RT 1000 = PS029922.D RT 1500 = PS029923.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
2,4-D	8.02	8.02	8.02	8.02	8.02	8.02	7.92	8.12
2,4-DCAA	6.94	6.94	6.94	6.94	6.94	6.94	6.84	7.04

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_S **Calibration Date(s):** 04/23/2025 04/23/2025

Calibration Times: 11:01 12:37

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029919.D RT 500 = PS029920.D

RT 750 = PS029921.D RT 1000 = PS029922.D RT 1500 = PS029923.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.54	9.54	9.54	9.54	9.54	9.54	9.44	9.64
2,4-D	8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
2,4-DCAA	7.47	7.47	7.47	7.47	7.47	7.47	7.37	7.57

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_S **Calibration Date(s):** 04/23/2025 04/23/2025

Calibration Times: 11:01 12:37

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029919.D **CF 500 =** PS029920.D

CF 750 = PS029921.D **CF 1000 =** PS029922.D **CF 1500 =** PS029923.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	16213200000	13862200000	13431300000	12910500000	12897000000	13862800000	10
2,4-D	3379530000	2797950000	2695740000	2590800000	2600340000	2812870000	12
2,4-DCAA	3038250000	2463560000	2343090000	2233670000	2226830000	2461080000	14

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Instrument ID: ECD_S

Calibration Date(s): 04/23/2025 04/23/2025

Calibration Times: 11:01 12:37

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029919.D **CF 500 =** PS029920.D

CF 750 = PS029921.D **CF 1000 =** PS029922.D **CF 1500 =** PS029923.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	8841790000	8081200000	8077540000	7871670000	8036560000	8181750000	5
2,4-D	1299090000	1113240000	1091000000	1054800000	1077400000	1127110000	9
2,4-DCAA	807639000	692361000	682858000	661991000	677736000	704517000	8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/06/2025 **Initial Calibration Date(s):** 04/23/2025 04/23/2025

Continuing Calib Time: 09:50 **Initial Calibration Time(s):** 11:01 12:37

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.94	6.84	7.04	0.00
2,4-D	8.02	8.02	7.92	8.12	0.00
2,4,5-TP(Silvex)	8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/06/2025 **Initial Calibration Date(s):** 04/23/2025 04/23/2025

Continuing Calib Time: 09:50 **Initial Calibration Time(s):** 11:01 12:37

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.46	7.47	7.37	7.57	0.01
2,4-D	8.65	8.66	8.56	8.76	0.01
2,4,5-TP(Silvex)	9.53	9.54	9.44	9.64	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/23/2025 04/23/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030052.D **Time Analyzed:** 09:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.857	8.762	8.962	695.180	712.500	-2.4
2,4-D	8.015	7.919	8.119	682.930	705.000	-3.1
2,4-DCAA	6.938	6.842	7.042	709.030	750.000	-5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/23/2025 04/23/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030052.D **Time Analyzed:** 09:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.531	9.442	9.642	717.130	712.500	0.6
2,4-D	8.651	8.561	8.761	682.800	705.000	-3.1
2,4-DCAA	7.459	7.367	7.567	734.700	750.000	-2.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/06/2025 **Initial Calibration Date(s):** 04/23/2025 04/23/2025

Continuing Calib Time: 14:15 **Initial Calibration Time(s):** 11:01 12:37

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.94	6.84	7.04	0.00
2,4-D	8.02	8.02	7.92	8.12	0.00
2,4,5-TP(Silvex)	8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/06/2025 **Initial Calibration Date(s):** 04/23/2025 04/23/2025

Continuing Calib Time: 14:15 **Initial Calibration Time(s):** 11:01 12:37

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.46	7.47	7.37	7.57	0.01
2,4-D	8.65	8.66	8.56	8.76	0.01
2,4,5-TP(Silvex)	9.53	9.54	9.44	9.64	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/23/2025 04/23/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030059.D **Time Analyzed:** 14:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.856	8.762	8.962	744.780	712.500	4.5
2,4-D	8.015	7.919	8.119	719.560	705.000	2.1
2,4-DCAA	6.938	6.842	7.042	763.780	750.000	1.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/23/2025 04/23/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030059.D **Time Analyzed:** 14:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.532	9.442	9.642	772.440	712.500	8.4
2,4-D	8.652	8.561	8.761	732.170	705.000	3.9
2,4-DCAA	7.461	7.367	7.567	793.080	750.000	5.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/06/2025 **Initial Calibration Date(s):** 04/23/2025 04/23/2025

Continuing Calib Time: 18:40 **Initial Calibration Time(s):** 11:01 12:37

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.94	6.84	7.04	0.00
2,4-D	8.01	8.02	7.92	8.12	0.01
2,4,5-TP(Silvex)	8.86	8.86	8.76	8.96	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Continuing Calib Date: 05/06/2025 **Initial Calibration Date(s):** 04/23/2025 04/23/2025

Continuing Calib Time: 18:40 **Initial Calibration Time(s):** 11:01 12:37

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.46	7.47	7.37	7.57	0.01
2,4-D	8.65	8.66	8.56	8.76	0.01
2,4,5-TP(Silvex)	9.53	9.54	9.44	9.64	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/23/2025 04/23/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030070.D **Time Analyzed:** 18:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.855	8.762	8.962	756.820	712.500	6.2
2,4-D	8.014	7.919	8.119	729.360	705.000	3.5
2,4-DCAA	6.937	6.842	7.042	776.060	750.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/23/2025 04/23/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030070.D **Time Analyzed:** 18:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.531	9.442	9.642	791.940	712.500	11.1
2,4-D	8.653	8.561	8.761	755.570	705.000	7.2
2,4-DCAA	7.460	7.367	7.567	810.860	750.000	8.1

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/23/2025 04/23/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	04/23/2025	10:37	PS029918.D	6.94	0.00
HSTDICC200	HSTDICC200	04/23/2025	11:01	PS029919.D	6.94	0.00
HSTDICC500	HSTDICC500	04/23/2025	11:25	PS029920.D	6.94	0.00
HSTDICC750	HSTDICC750	04/23/2025	11:49	PS029921.D	6.94	0.00
HSTDICC1000	HSTDICC1000	04/23/2025	12:13	PS029922.D	6.94	0.00
HSTDICC1500	HSTDICC1500	04/23/2025	12:37	PS029923.D	6.94	0.00
I.BLK	I.BLK	05/06/2025	08:58	PS030051.D	6.94	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	09:50	PS030052.D	6.94	0.00
PB167871BL	PB167871BL	05/06/2025	13:03	PS030056.D	6.94	0.00
PB167871BS	PB167871BS	05/06/2025	13:27	PS030057.D	6.94	0.00
I.BLK	I.BLK	05/06/2025	13:51	PS030058.D	6.94	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	14:15	PS030059.D	6.94	0.00
PB167774TB	PB167774TB	05/06/2025	14:40	PS030060.D	6.94	0.00
B-167-SB01	Q1901-08	05/06/2025	15:28	PS030062.D	6.94	0.00
B-167-SB01MS	Q1901-08MS	05/06/2025	15:52	PS030063.D	6.94	0.00
B-167-SB01MSD	Q1901-08MSD	05/06/2025	16:16	PS030064.D	6.94	0.00
B-170-SB01	Q1901-09	05/06/2025	16:40	PS030065.D	6.94	0.00
B-167-SB02	Q1901-10	05/06/2025	17:04	PS030066.D	6.94	0.00
B-170-SB02	Q1901-11	05/06/2025	17:28	PS030067.D	6.94	0.00
I.BLK	I.BLK	05/06/2025	18:16	PS030069.D	6.94	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	18:40	PS030070.D	6.94	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/23/2025 04/23/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	04/23/2025	10:37	PS029918.D	7.47	0.00
HSTDICC200	HSTDICC200	04/23/2025	11:01	PS029919.D	7.47	0.00
HSTDICC500	HSTDICC500	04/23/2025	11:25	PS029920.D	7.47	0.00
HSTDICC750	HSTDICC750	04/23/2025	11:49	PS029921.D	7.47	0.00
HSTDICC1000	HSTDICC1000	04/23/2025	12:13	PS029922.D	7.47	0.00
HSTDICC1500	HSTDICC1500	04/23/2025	12:37	PS029923.D	7.47	0.00
I.BLK	I.BLK	05/06/2025	08:58	PS030051.D	7.46	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	09:50	PS030052.D	7.46	0.00
PB167871BL	PB167871BL	05/06/2025	13:03	PS030056.D	7.46	0.00
PB167871BS	PB167871BS	05/06/2025	13:27	PS030057.D	7.46	0.00
I.BLK	I.BLK	05/06/2025	13:51	PS030058.D	7.46	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	14:15	PS030059.D	7.46	0.00
PB167774TB	PB167774TB	05/06/2025	14:40	PS030060.D	7.46	0.00
B-167-SB01	Q1901-08	05/06/2025	15:28	PS030062.D	7.46	0.00
B-167-SB01MS	Q1901-08MS	05/06/2025	15:52	PS030063.D	7.46	0.00
B-167-SB01MSD	Q1901-08MSD	05/06/2025	16:16	PS030064.D	7.46	0.00
B-170-SB01	Q1901-09	05/06/2025	16:40	PS030065.D	7.46	0.00
B-167-SB02	Q1901-10	05/06/2025	17:04	PS030066.D	7.46	0.00
B-170-SB02	Q1901-11	05/06/2025	17:28	PS030067.D	7.46	0.00
I.BLK	I.BLK	05/06/2025	18:16	PS030069.D	7.46	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	18:40	PS030070.D	7.46	0.00

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Lab Sample ID: Q1901-08MS **Date(s) Analyzed:** 05/06/2025 05/06/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.01	7.96	8.06	64.2	0.8
	2	8.65	8.60	8.70	63.7	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	60.9	4
	2	9.53	9.48	9.58	63.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Lab Sample ID: Q1901-08MSD **Date(s) Analyzed:** 05/06/2025 05/06/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.01	7.96	8.06	67.0	1.1
	2	8.65	8.60	8.70	66.3	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	63.4	4.2
	2	9.53	9.48	9.58	66.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167871BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901

Lab Sample ID: PB167871BS **Date(s) Analyzed:** 05/06/2025 05/06/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	5.30	1.9
	2	9.53	9.48	9.58	5.40	
2,4-D	1	8.01	7.96	8.06	5.20	1.9
	2	8.65	8.60	8.70	5.30	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 14:40
Operator : AR\AJ
Sample : PB167774TB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167774TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:55:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.938	7.461	1432.4E6	416.4E6	582.030	591.113
	Target Compounds						

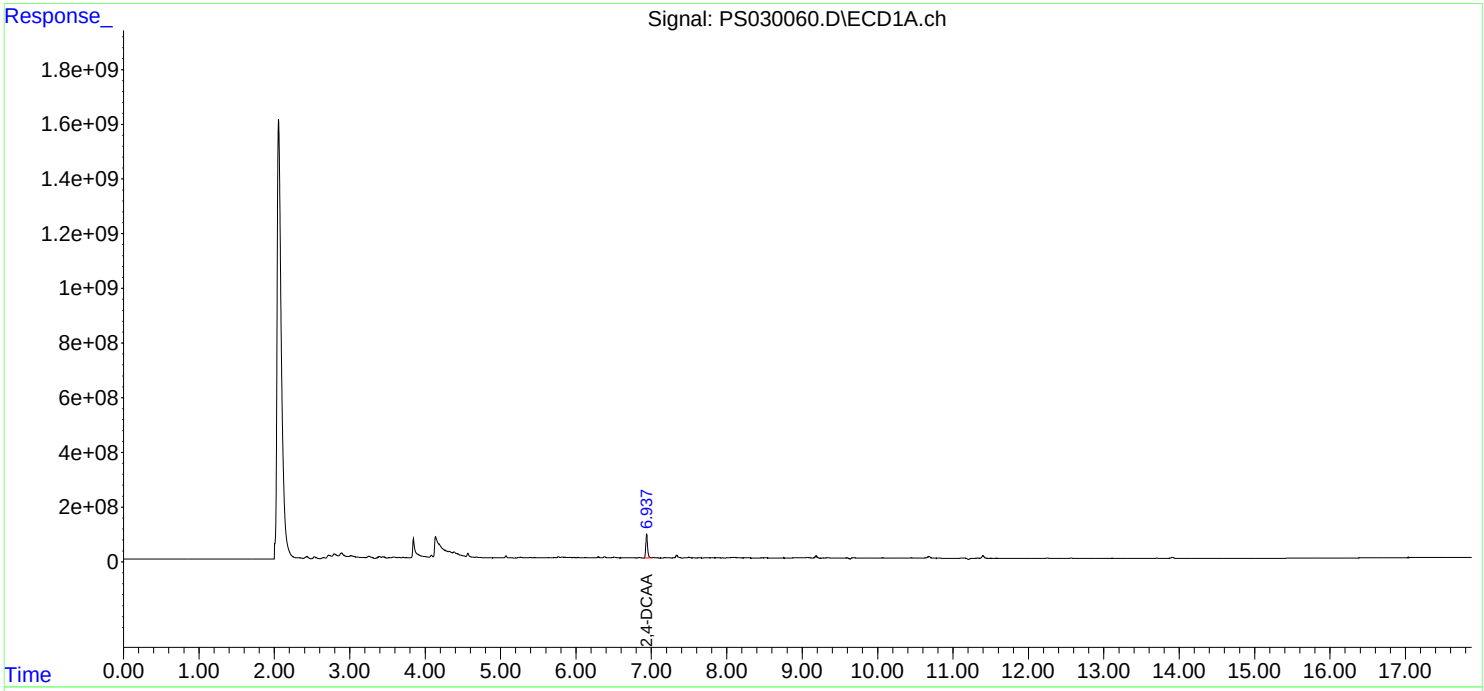
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

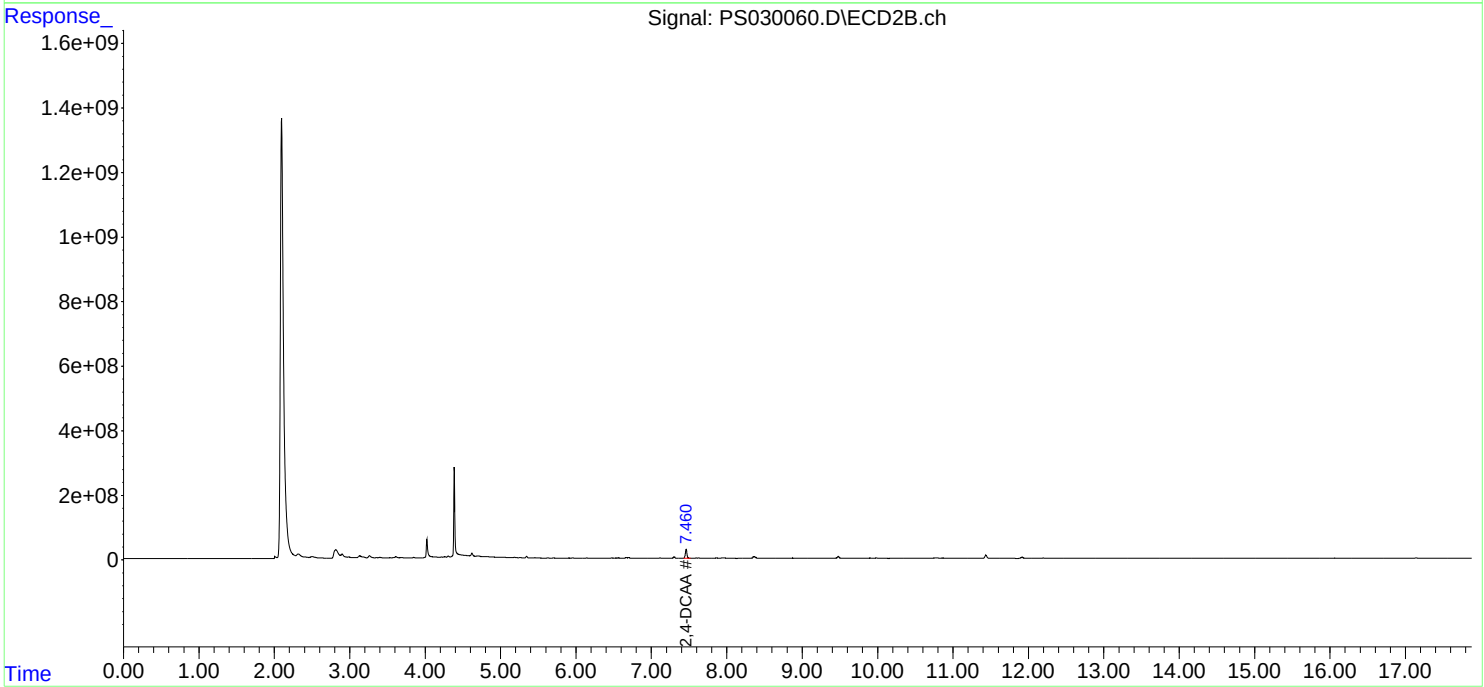
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 14:40
Operator : AR\AJ
Sample : PB167774TB
Misc :
ALS Vial : 9 Sample Multiplier: 1

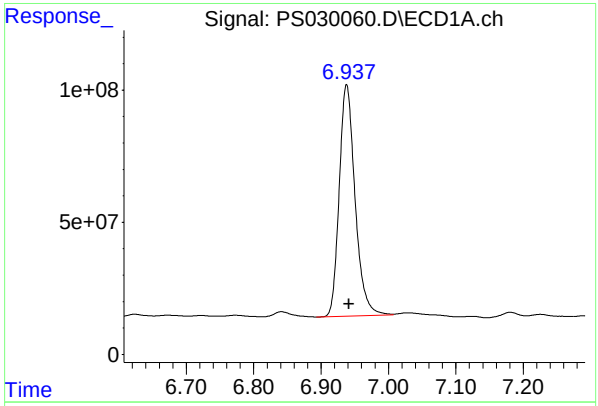
Instrument :
ECD_S
ClientSampleId :
PB167774TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:55:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



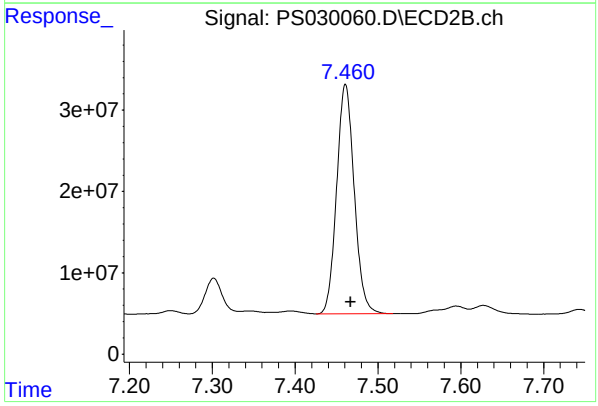




#4 2,4-DCAA

R.T.: 6.938 min
Delta R.T.: -0.003 min
Response: 1432422261
Conc: 582.03 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167774TB



#4 2,4-DCAA

R.T.: 7.461 min
Delta R.T.: -0.006 min
Response: 416449029
Conc: 591.11 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:28
Operator : AR\AJ
Sample : Q1901-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-167-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:57:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.939	7.461	1638.1E6	406.3E6	665.615	576.761
	Target Compounds						

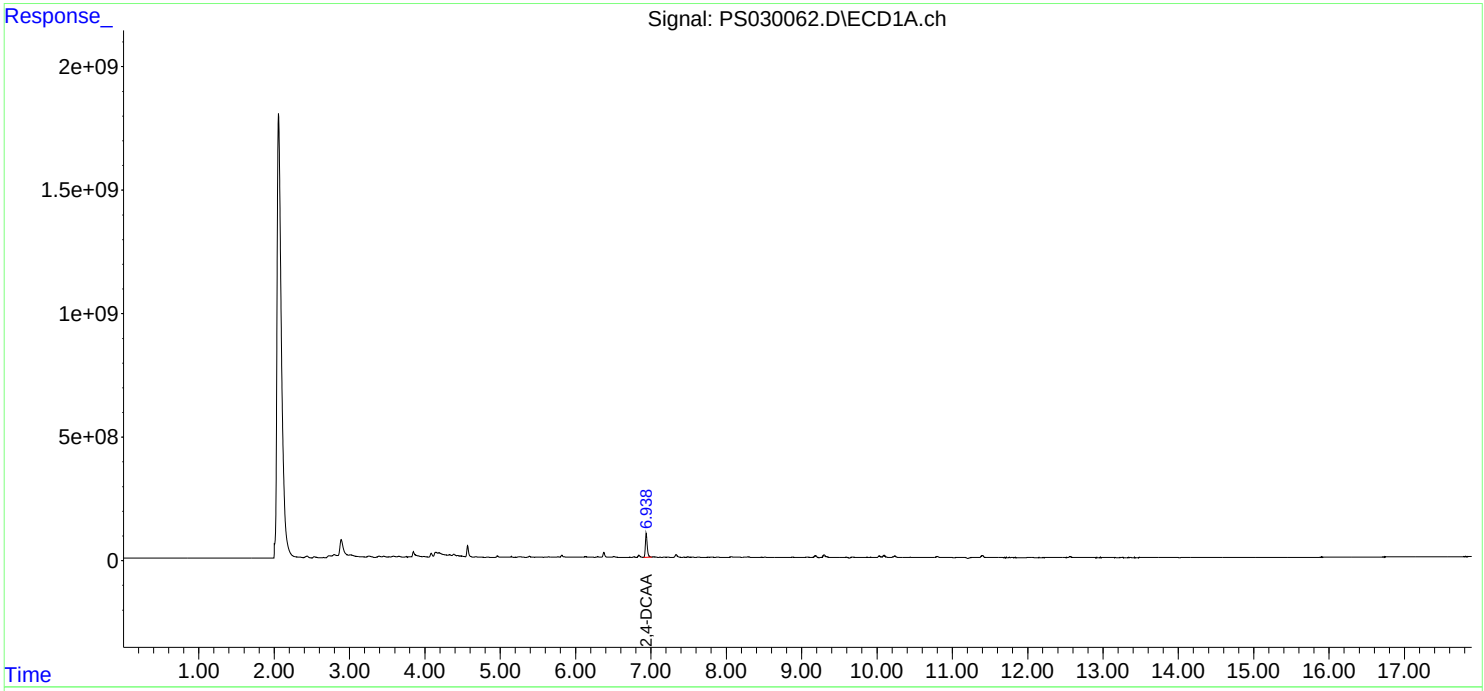
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

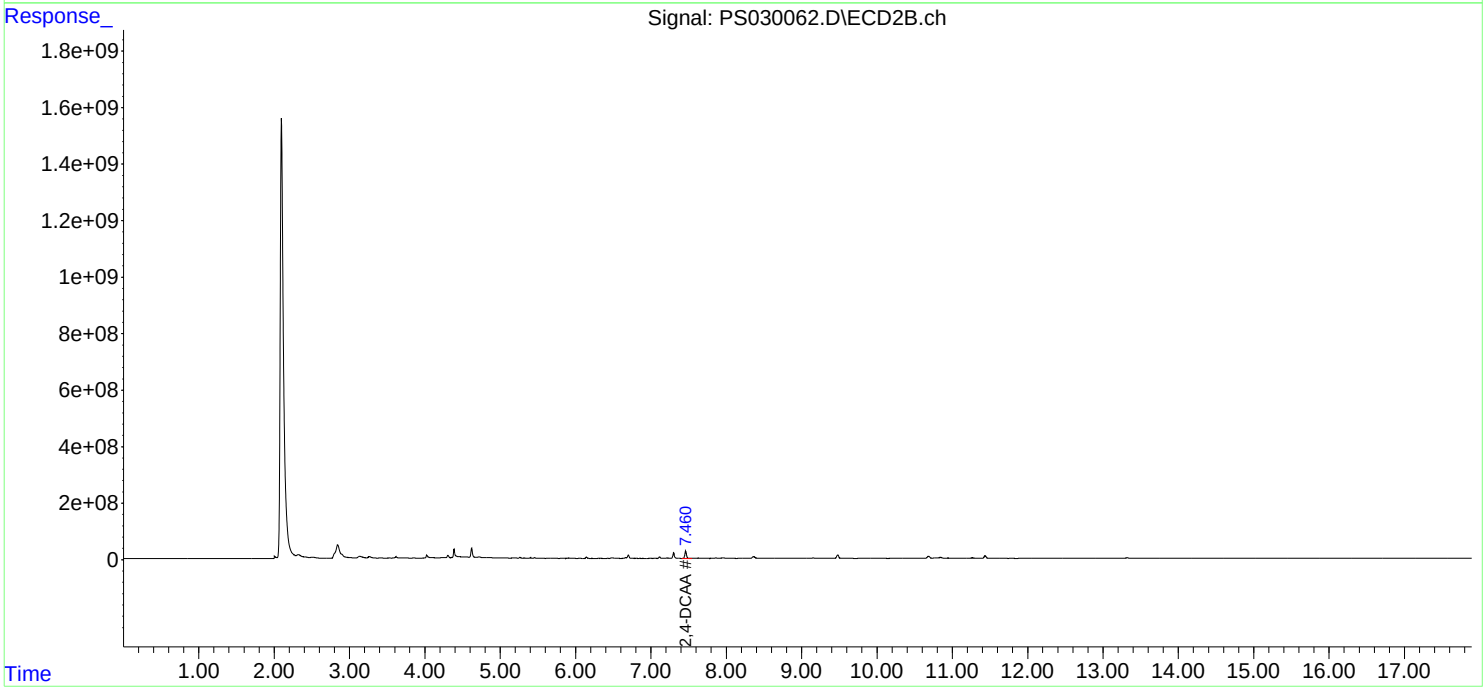
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:28
Operator : AR\AJ
Sample : Q1901-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

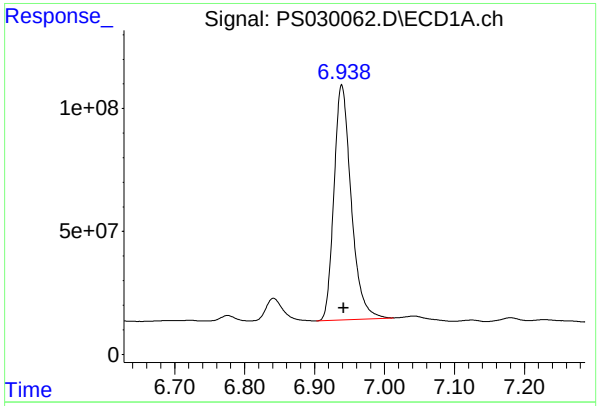
Instrument :
ECD_S
ClientSampleId :
B-167-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:57:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



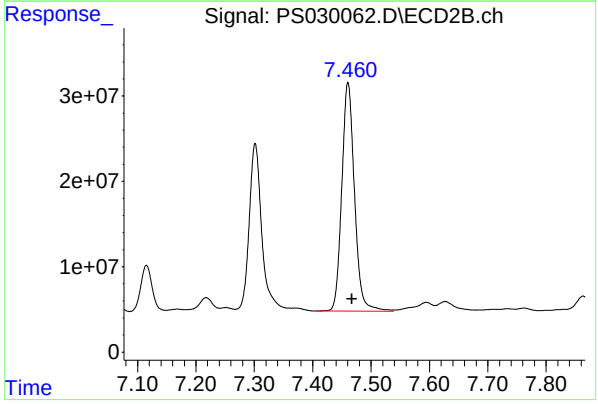




#4 2,4-DCAA

R.T.: 6.939 min
Delta R.T.: -0.002 min
Response: 1638130787
Conc: 665.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-167-SB01



#4 2,4-DCAA

R.T.: 7.461 min
Delta R.T.: -0.007 min
Response: 406337939
Conc: 576.76 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030065.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 16:40
Operator : AR\AJ
Sample : Q1901-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-170-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:58:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.940	7.461	1684.9E6	395.3E6	684.601	561.095
	Target Compounds						

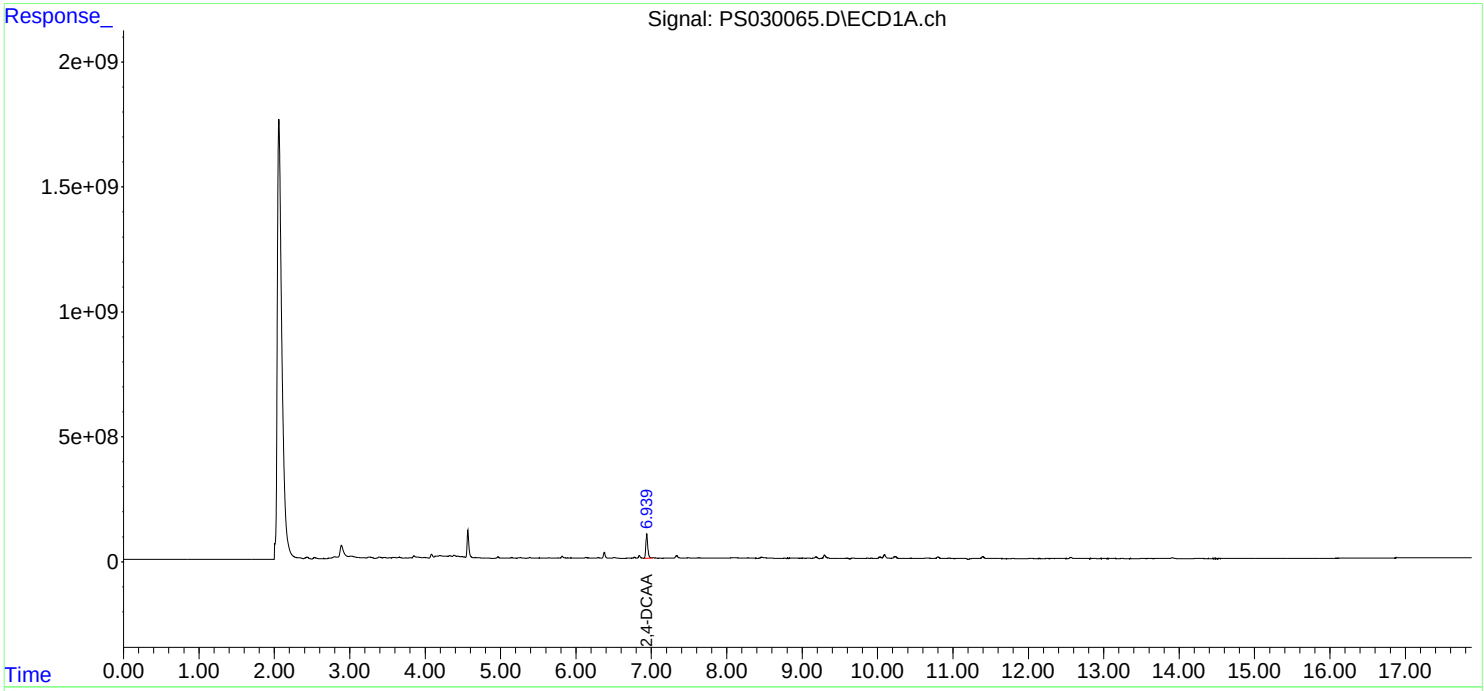
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

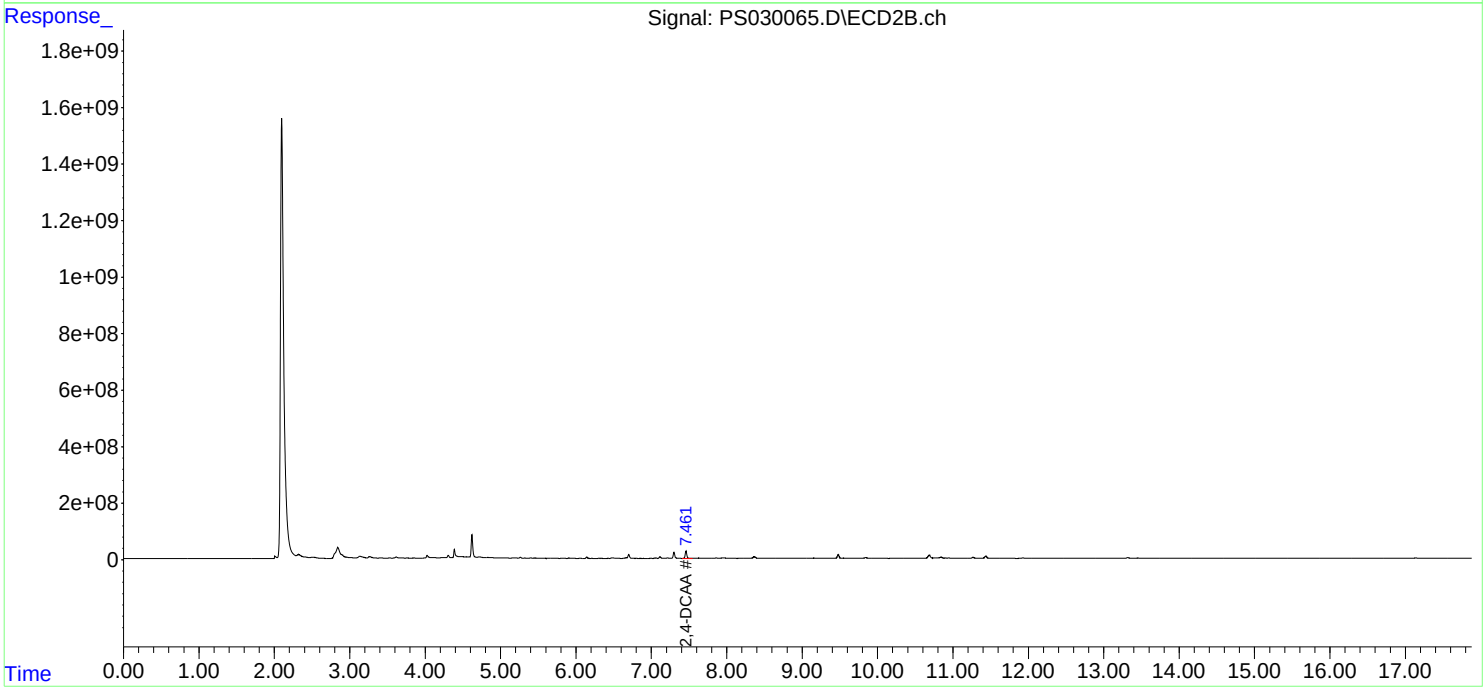
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030065.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 16:40
Operator : AR\AJ
Sample : Q1901-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

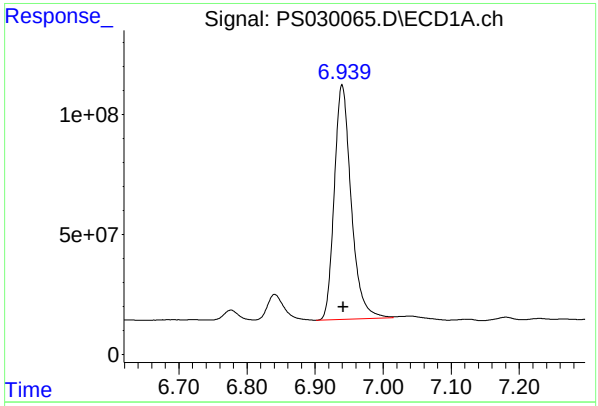
Instrument :
ECD_S
ClientSampleId :
B-170-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:58:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



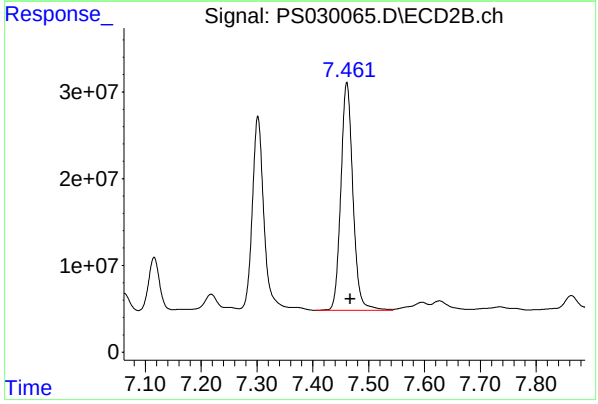




#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.002 min
Response: 1684858070
Conc: 684.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-170-SB01



#4 2,4-DCAA

R.T.: 7.461 min
Delta R.T.: -0.006 min
Response: 395300887
Conc: 561.09 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030066.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 17:04
Operator : AR\AJ
Sample : Q1901-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 04:49:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.940	7.461	1749.6E6	399.0E6	710.926	566.296
	Target Compounds						

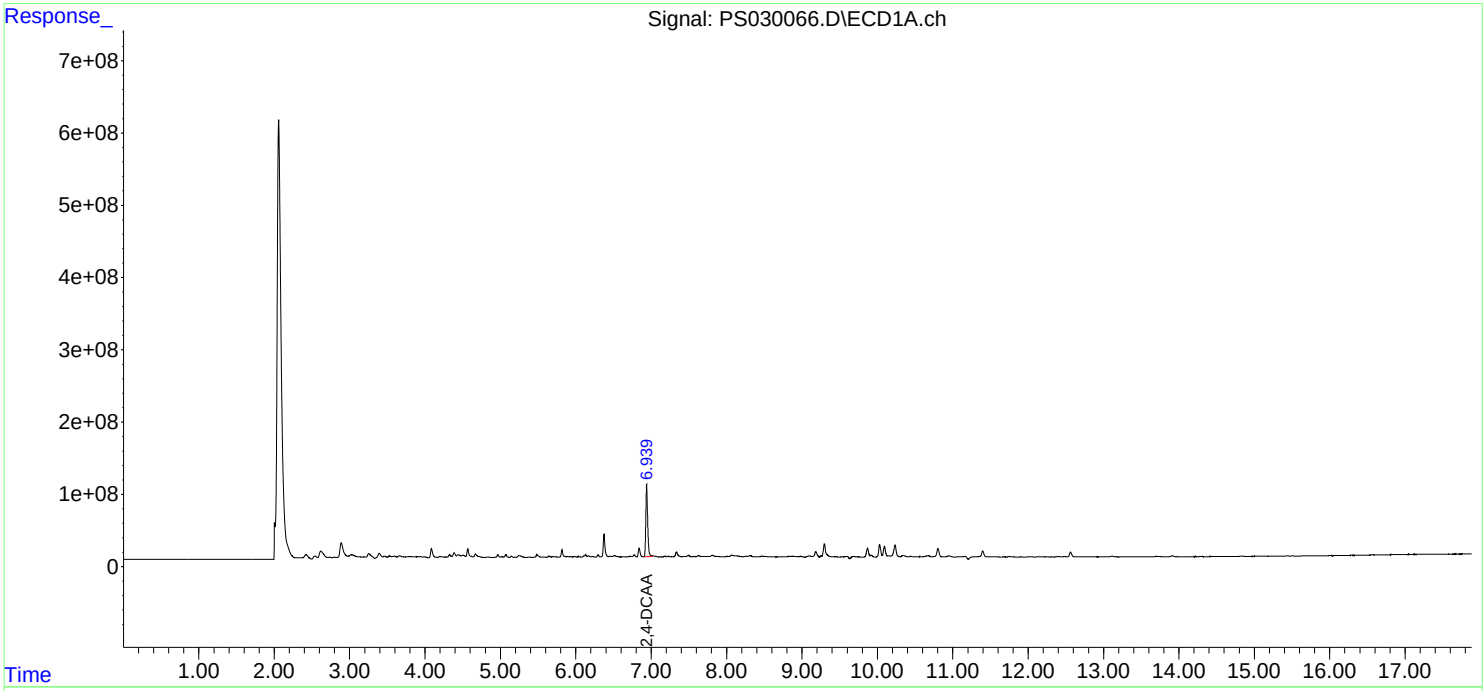
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

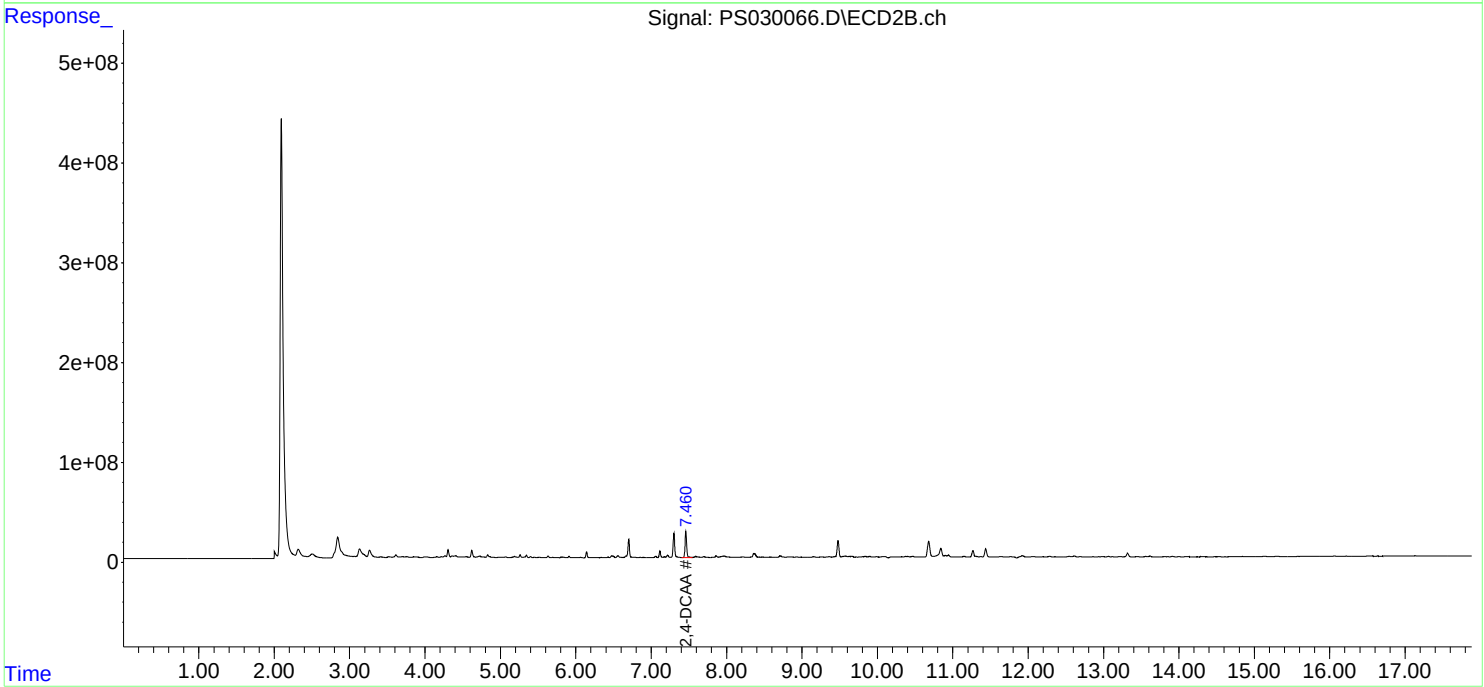
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030066.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 17:04
Operator : AR\AJ
Sample : Q1901-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

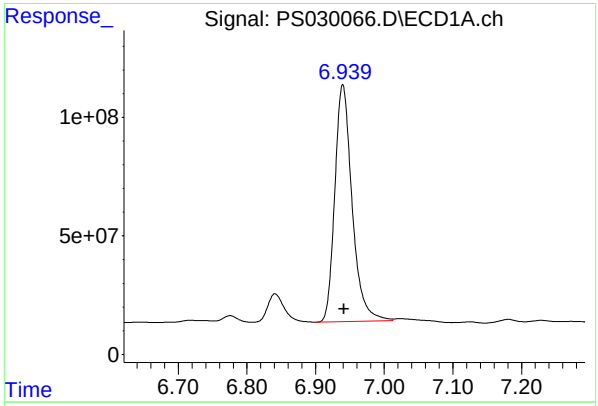
Instrument :
ECD_S
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 04:49:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



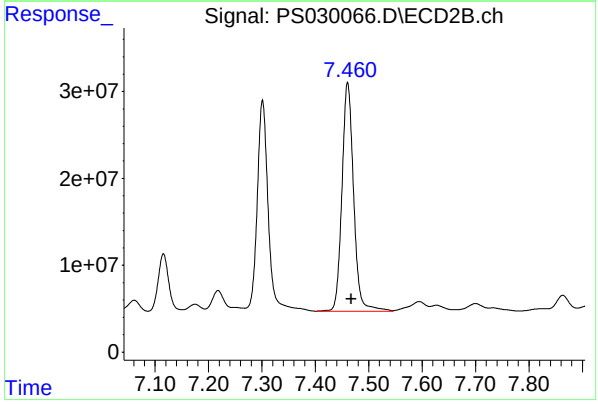




#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.002 min
Response: 1749646003
Conc: 710.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-167-SB02



#4 2,4-DCAA

R.T.: 7.461 min
Delta R.T.: -0.007 min
Response: 398964905
Conc: 566.30 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030067.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 17:28
Operator : AR\AJ
Sample : Q1901-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 04:50:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.940	7.460	2081.3E6	430.7E6	845.696	611.335 #
	Target Compounds						

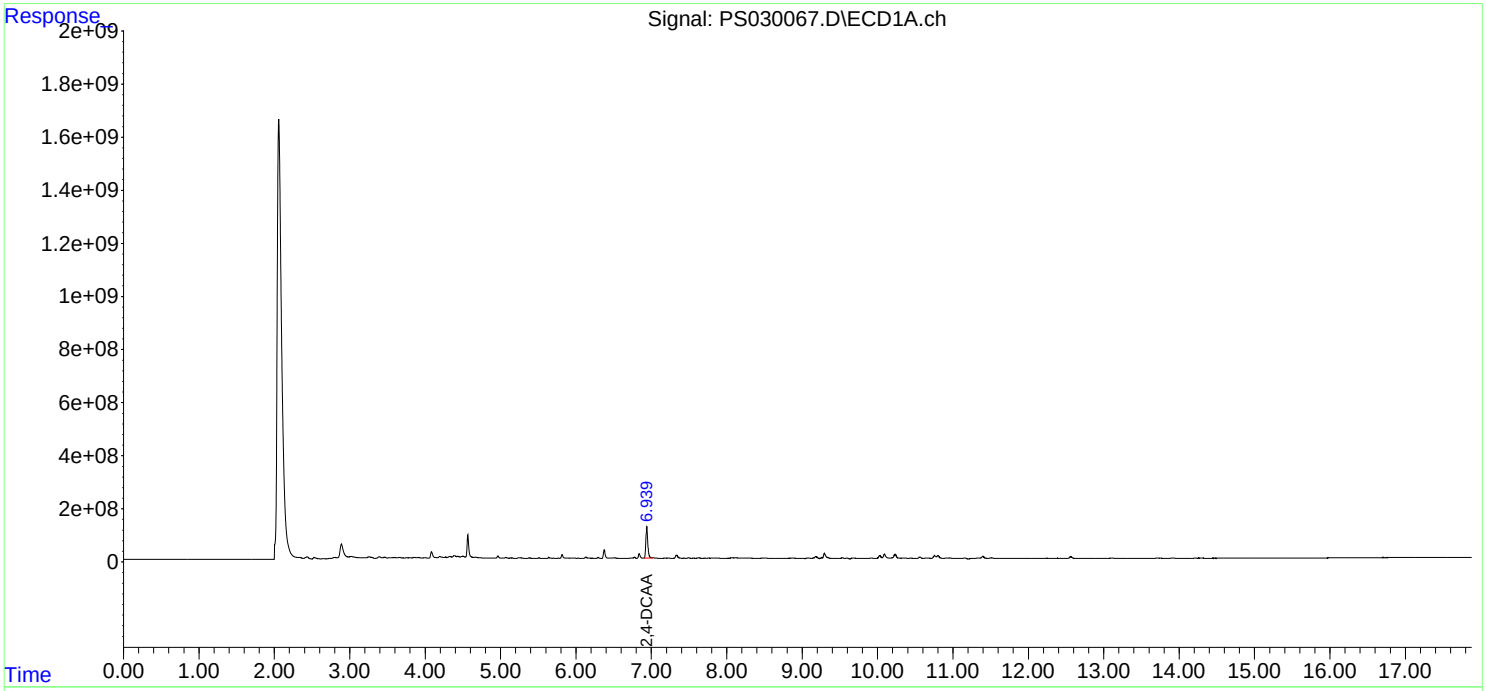
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

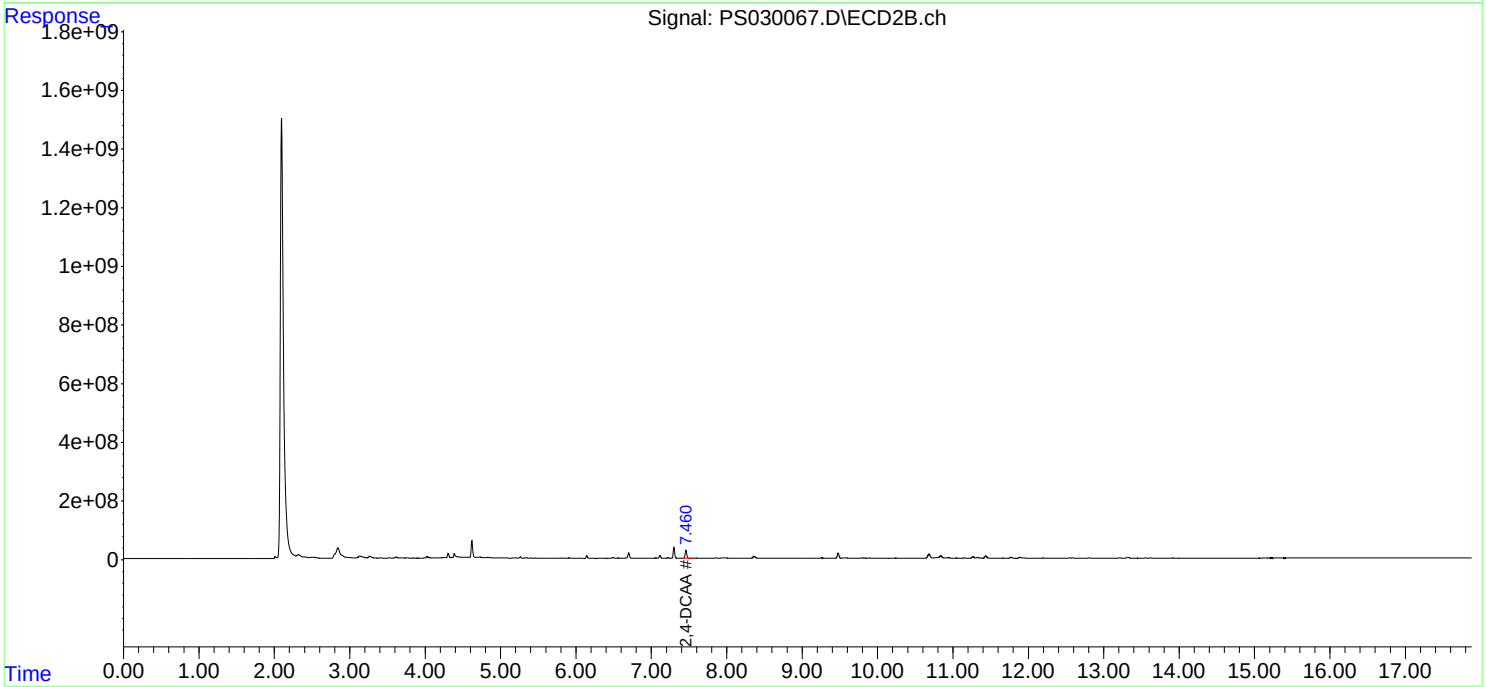
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030067.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 17:28
Operator : AR\AJ
Sample : Q1901-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

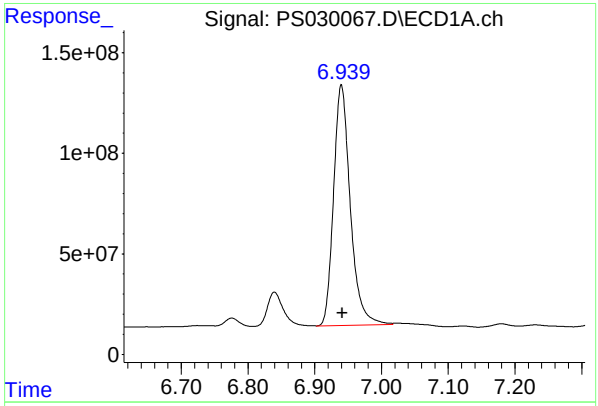
Instrument :
ECD_S
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 04:50:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



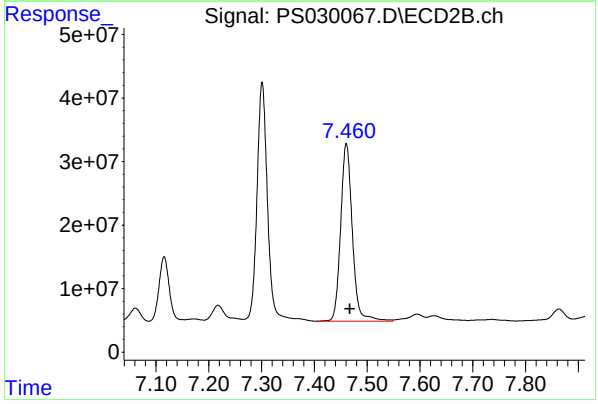




#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.001 min
Response: 2081323612
Conc: 845.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-170-SB02



#4 2,4-DCAA

R.T.: 7.460 min
Delta R.T.: -0.007 min
Response: 430696150
Conc: 611.34 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:03
Operator : AR\AJ
Sample : PB167871BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167871BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:25:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.937	7.458	1525.9E6	433.6E6	619.998	615.503
	Target Compounds						

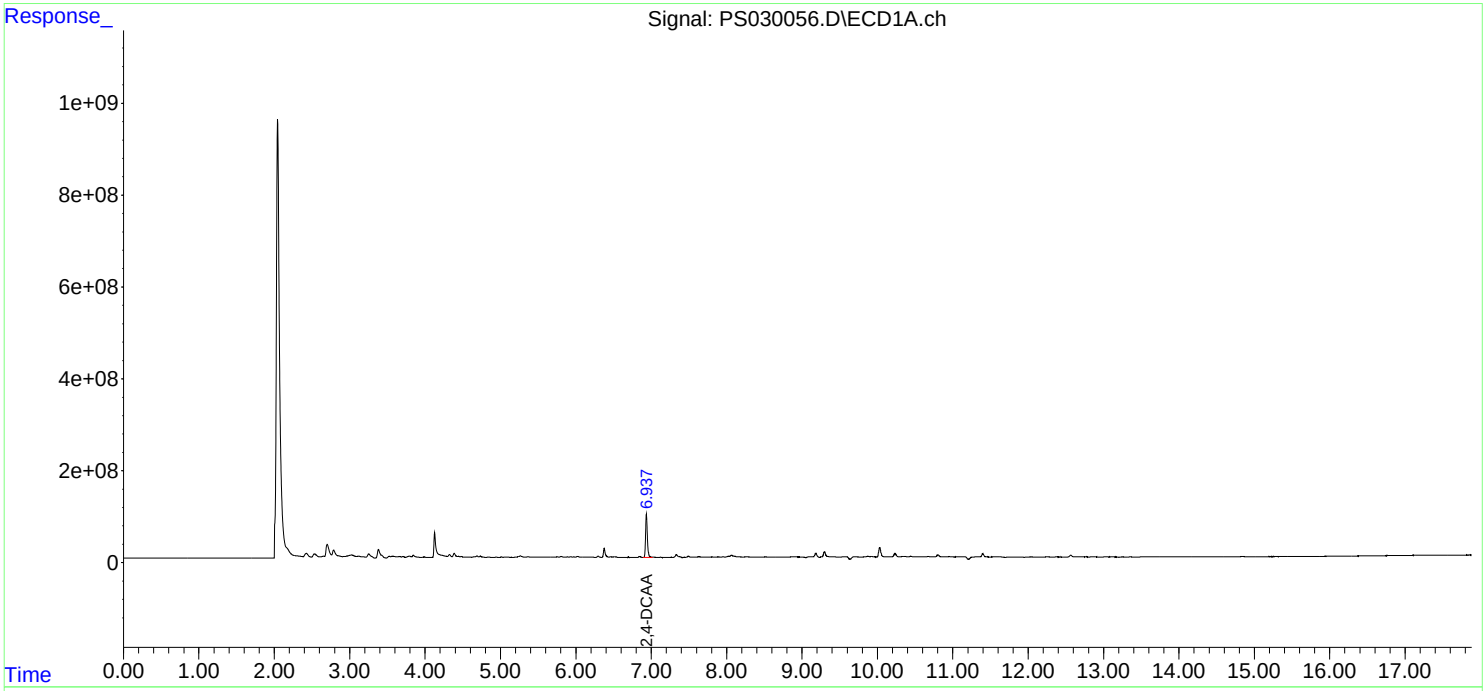
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

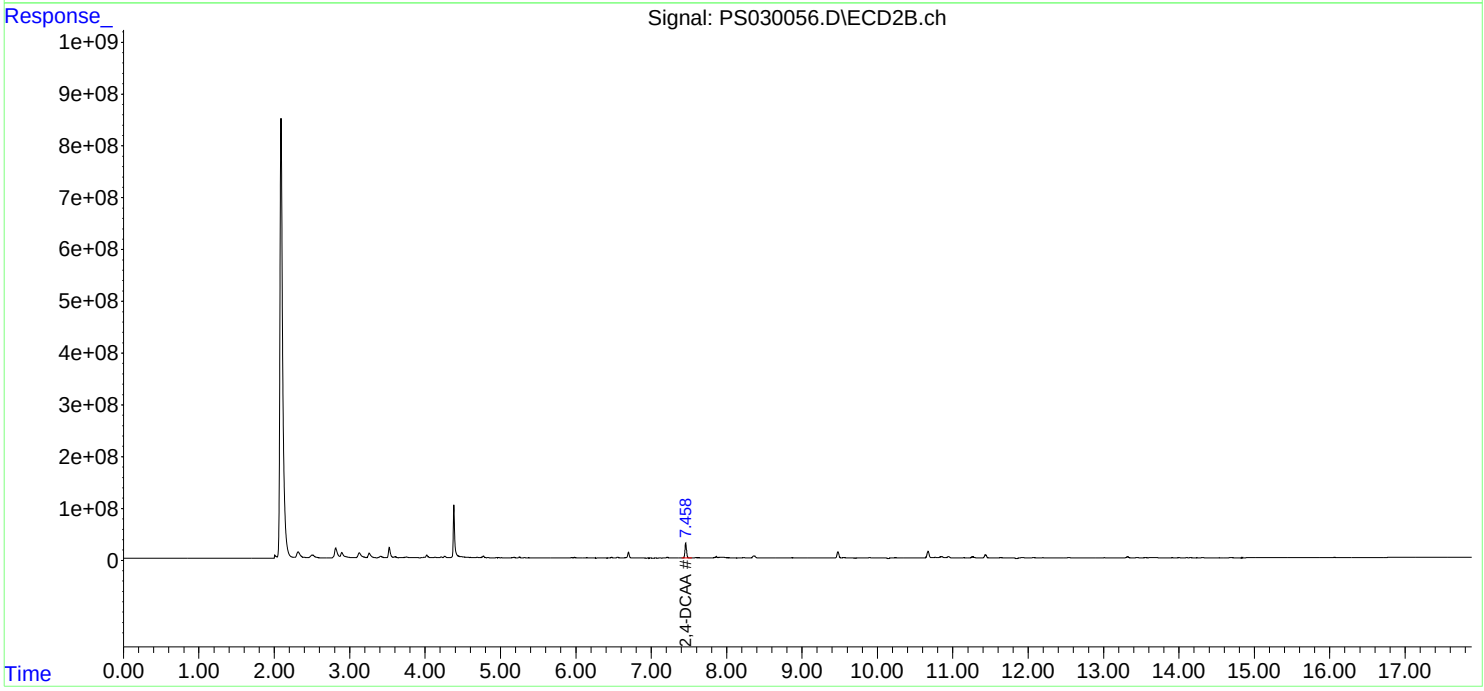
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:03
Operator : AR\AJ
Sample : PB167871BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

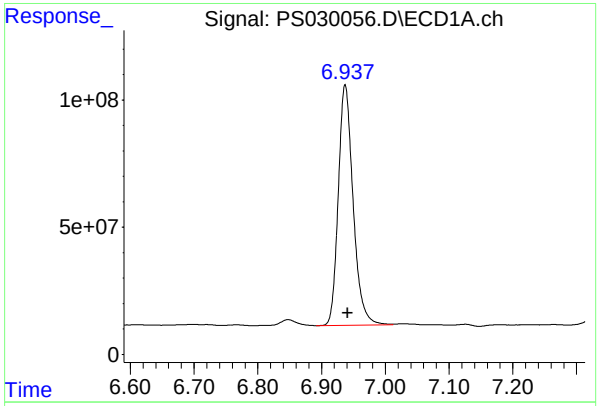
Instrument :
ECD_S
ClientSampleId :
PB167871BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:25:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



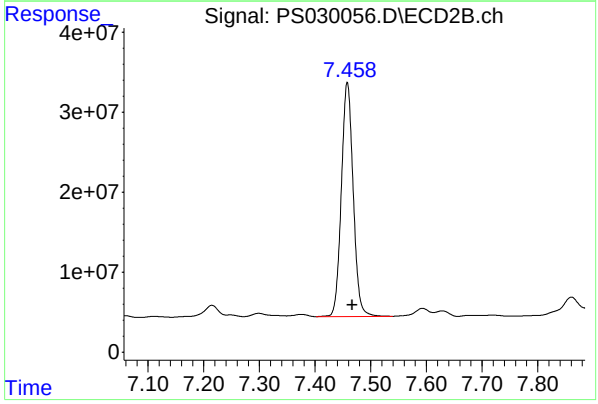




#4 2,4-DCAA

R.T.: 6.937 min
Delta R.T.: -0.004 min
Response: 1525863866
Conc: 620.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167871BL



#4 2,4-DCAA

R.T.: 7.458 min
Delta R.T.: -0.009 min
Response: 433632279
Conc: 615.50 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:27
Operator : AR\AJ
Sample : PB167871BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167871BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/07/2025
Supervised By :mohammad ahmed 05/08/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:26:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.937	7.460	1365.3E6	396.0E6	554.772m	562.022
	Target Compounds						
1) T	Dalapon	2.447	2.522	1794.8E6	778.0E6	438.254m	448.126m
2) T	3,5-DICHL...	6.142	6.458	1831.8E6	504.8E6	512.557	516.419
3) T	4-Nitroph...	6.728	6.995	892.6E6	382.0E6	500.554	498.761
5) T	DICAMBA	7.114	7.646	5139.5E6	2090.3E6	518.987	529.175m
6) T	MCPP	7.291	7.753	307.6E6	86545276	47.737	49.484
7) T	MCPA	7.434	7.982	436.7E6	114.3E6	49.452	48.333m
8) T	DICHLORPROP	7.794	8.339	1297.9E6	518.7E6	512.187	516.688m
9) T	2,4-D	8.014	8.652	1454.4E6	593.7E6	517.062	526.714
10) T	Pentachlo...	8.292	9.153	18780.8E6	11268.2E6	538.362	553.862
11) T	2,4,5-TP ...	8.855	9.531	7355.0E6	4446.4E6	530.552	543.458
12) T	2,4,5-T	9.138	9.936	7513.8E6	4133.4E6	534.671	532.473
13) T	2,4-DB	9.696	10.494	1196.7E6	426.0E6	523.627	529.238
14) T	DINOSEB	10.857	10.867	5060.9E6	2987.0E6	497.465m	512.259
15) T	Picloram	10.677	11.902	8962.8E6	5947.0E6	488.955	484.138m
16) T	DCPA	11.159	11.901	9243.7E6	5946.0E6	543.078	527.514m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

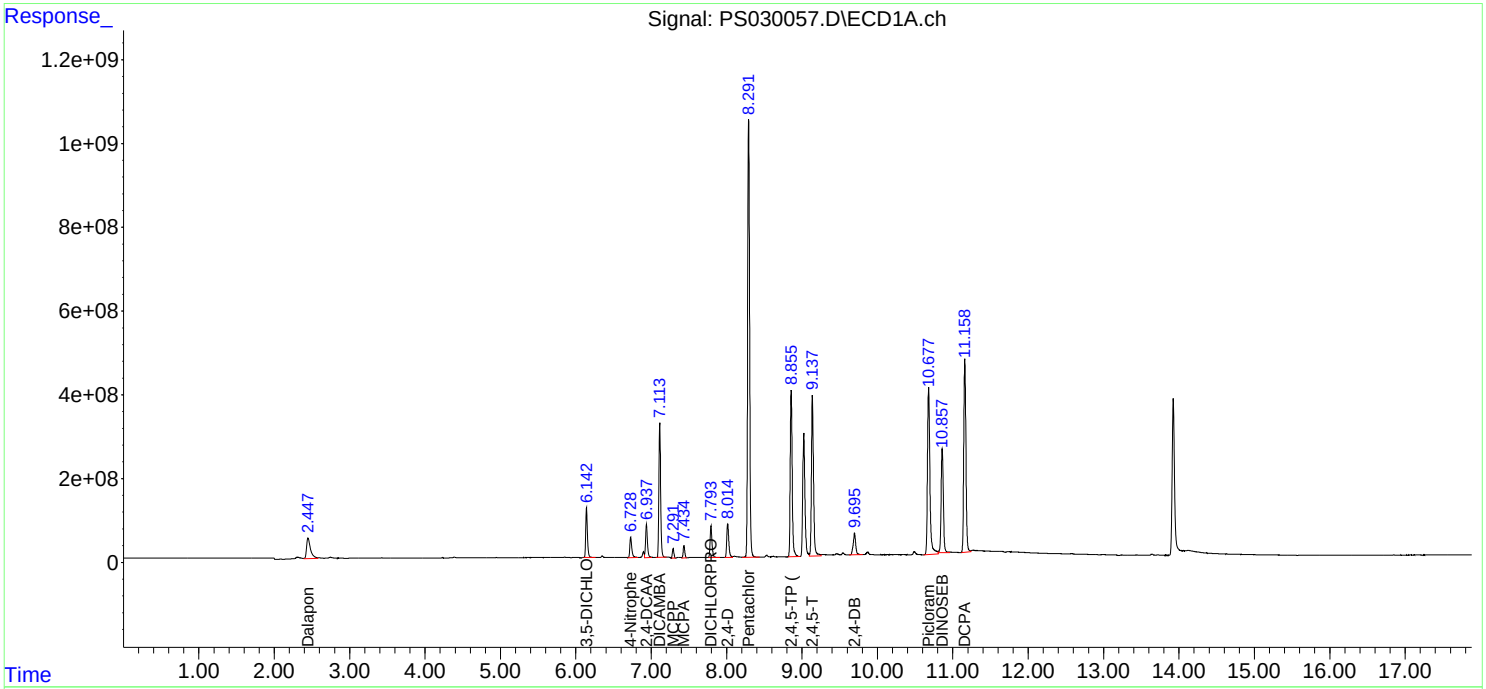
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:27
Operator : AR\AJ
Sample : PB167871BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

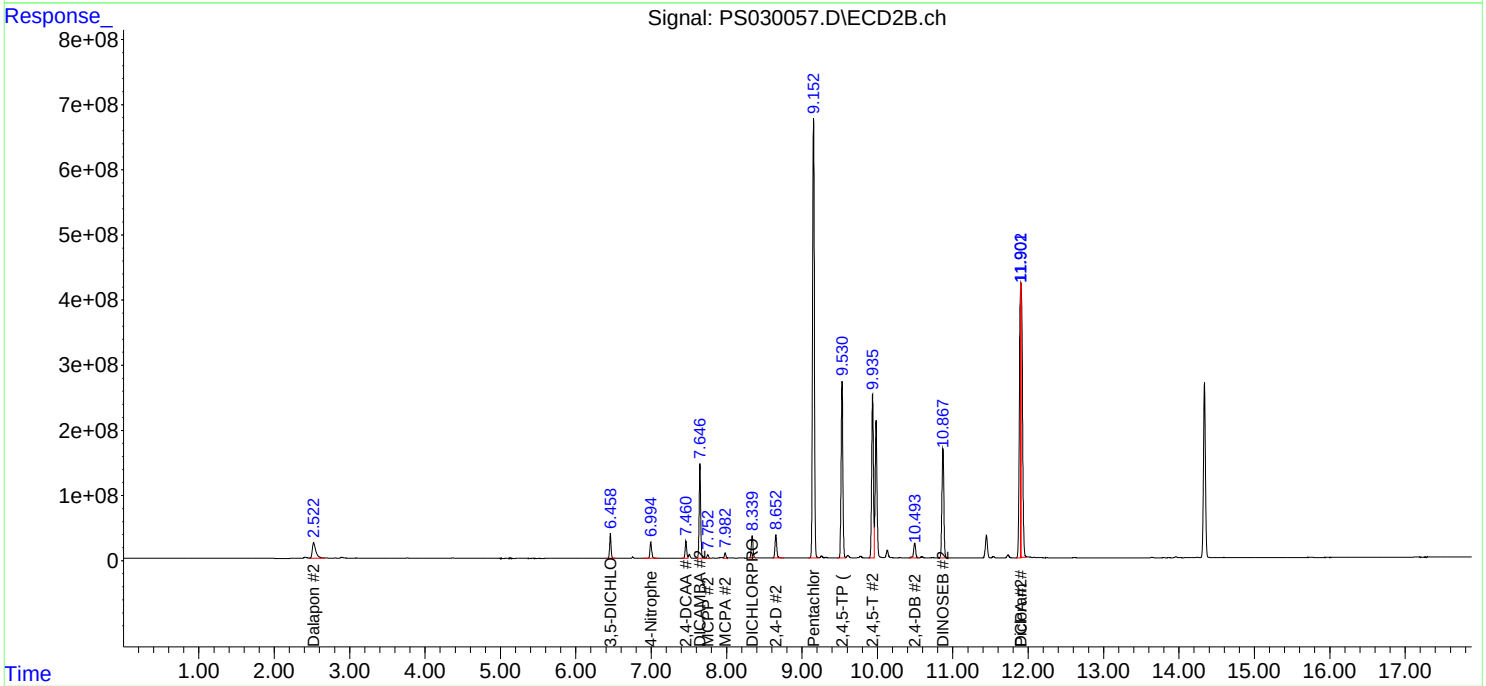
Instrument :
ECD_S
ClientSampleId :
PB167871BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/07/2025
Supervised By :mohammad ahmed 05/08/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:26:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030063.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:52
Operator : AR\AJ
Sample : Q1901-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/07/2025
Supervised By :mohammad ahmed 05/08/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	6.939	7.461	1698.5E6	406.7E6	690.157	577.297
		Target Compounds						
1)	T	Dalapon	2.447	2.522	1736.4E6	907.4E6	423.991	522.654m
2)	T	3,5-DICHL...	6.142	6.458	2061.3E6	575.5E6	576.787	588.668m
3)	T	4-Nitroph...	6.732	6.997	10707654	5381930	6.004m	7.027m
5)	T	DICAMBA	7.114	7.647	5005.3E6	2264.0E6	505.442	573.163
6)	T	MCPP	7.291	7.754	349.3E6	87539688	54.207m	50.053
7)	T	MCPA	7.434	7.983	421.8E6	120.0E6	47.760	50.732m
8)	T	DICHLORPROP	7.794	8.340	1393.0E6	689.4E6	549.681	686.682m
9)	T	2,4-D	8.014	8.652	1805.3E6	717.7E6	641.806	636.803
10)	T	Pentachlo...	8.292	9.154	19049.9E6	11319.7E6	546.078	556.393
11)	T	2,4,5-TP ...	8.856	9.532	8440.1E6	5185.4E6	608.829	633.780
12)	T	2,4,5-T	9.138	9.937	8280.5E6	4625.1E6	589.233	595.822
13)	T	2,4-DB	9.697	10.494	1079.4E6	444.1E6	472.316m	551.736m
14)	T	DINOSEB	10.859	10.868	4194.5E6	2340.1E6	412.296	401.321
15)	T	Picloram	10.678	11.905	8756.5E6	5806.2E6	477.698	472.678m
16)	T	DCPA	11.160	11.900	9683.9E6	6317.2E6	568.937	560.450m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PS030063.D**

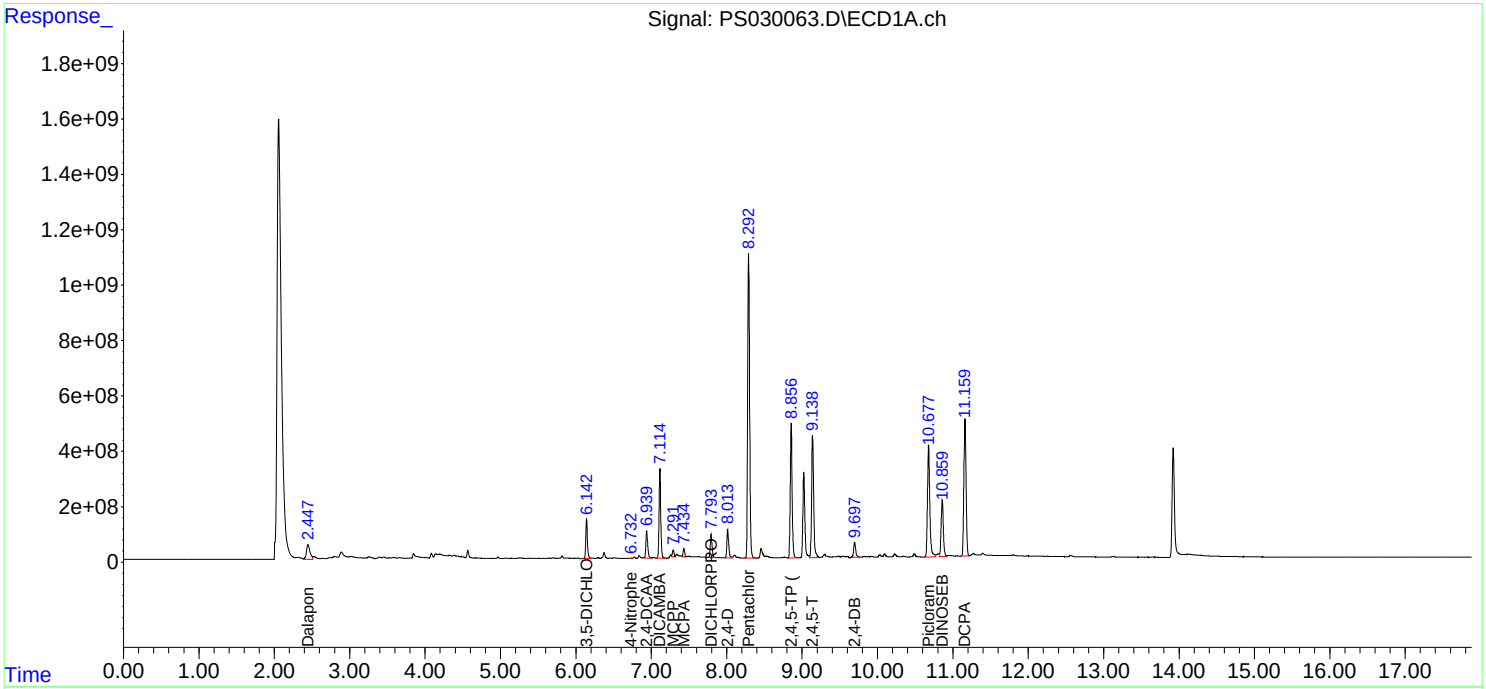
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030063.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:52
Operator : AR\AJ
Sample : Q1901-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

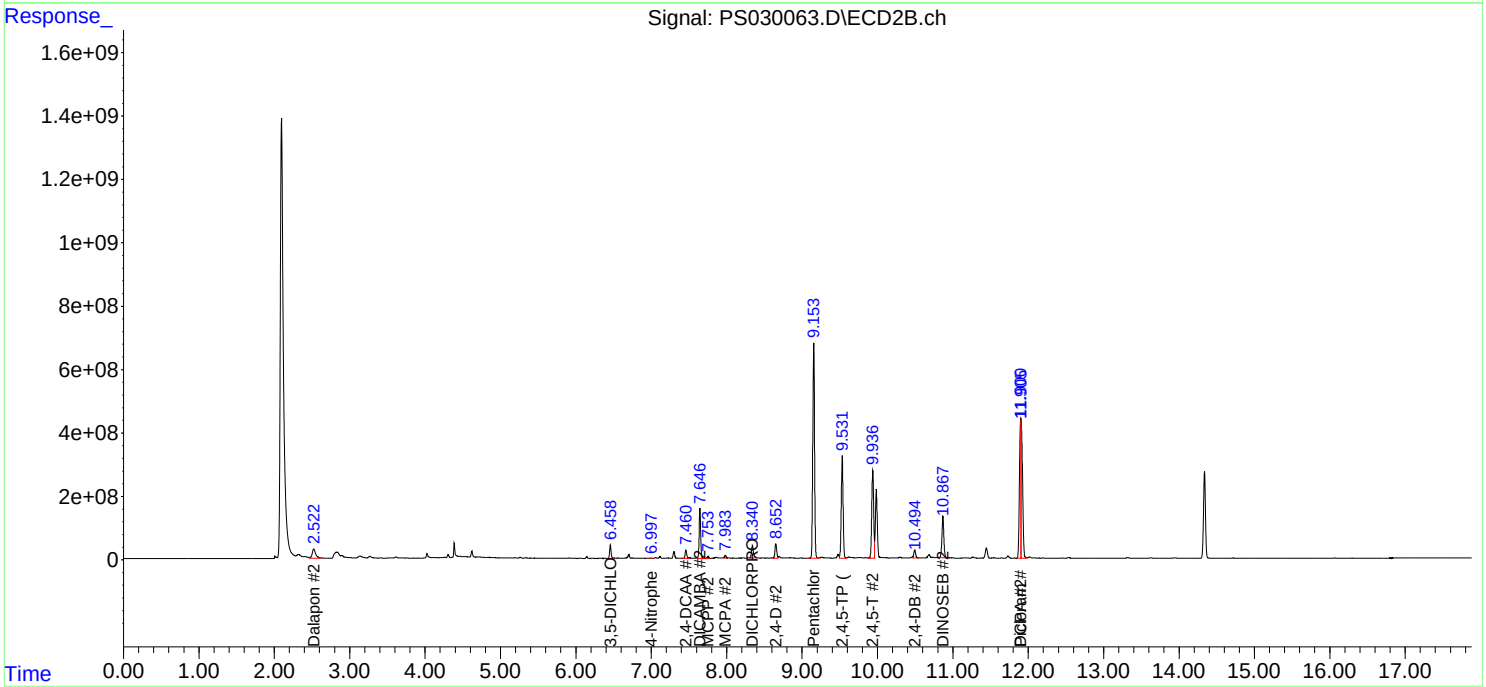
Instrument :
ECD_S
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/07/2025
Supervised By :mohammad ahmed 05/08/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030064.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 16:16
Operator : AR\AJ
Sample : Q1901-08MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/07/2025
Supervised By :mohammad ahmed 05/08/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:58:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	6.939	7.461	1701.1E6	415.3E6	691.201m	589.526
		Target Compounds						
1)	T	Dalapon	2.447	2.522	1791.3E6	856.4E6	437.402	493.283m
2)	T	3,5-DICHL...	6.142	6.459	2133.4E6	600.1E6	596.970	613.850
3)	T	4-Nitroph...	6.730	6.997	14909010	5649598	8.360	7.376m
5)	T	DICAMBA	7.114	7.646	5186.9E6	2361.5E6	523.780	597.831
6)	T	MCPP	7.291	7.754	457.7E6	91698459	71.033m	52.431 #
7)	T	MCPA	7.434	7.982	442.4E6	134.4E6	50.096	56.792m
8)	T	DICHLORPROP	7.793	8.339	1444.9E6	713.9E6	570.193	711.074m
9)	T	2,4-D	8.013	8.652	1885.5E6	747.1E6	670.295	662.832
10)	T	Pentachlo...	8.292	9.153	19451.4E6	11594.1E6	557.587	569.879
11)	T	2,4,5-TP ...	8.855	9.532	8785.7E6	5409.3E6	633.761	661.141
12)	T	2,4,5-T	9.137	9.936	8613.3E6	4842.1E6	612.909	623.777
13)	T	2,4-DB	9.695	10.493	1154.6E6	468.7E6	505.224m	582.352m
14)	T	DINOSEB	10.858	10.868	4206.7E6	2346.0E6	413.503	402.332
15)	T	Picloram	10.677	11.903	9094.6E6	6520.5E6	496.141	530.831m
16)	T	DCPA	11.159	11.901	10091.7E6	5920.2E6	592.897	525.233m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

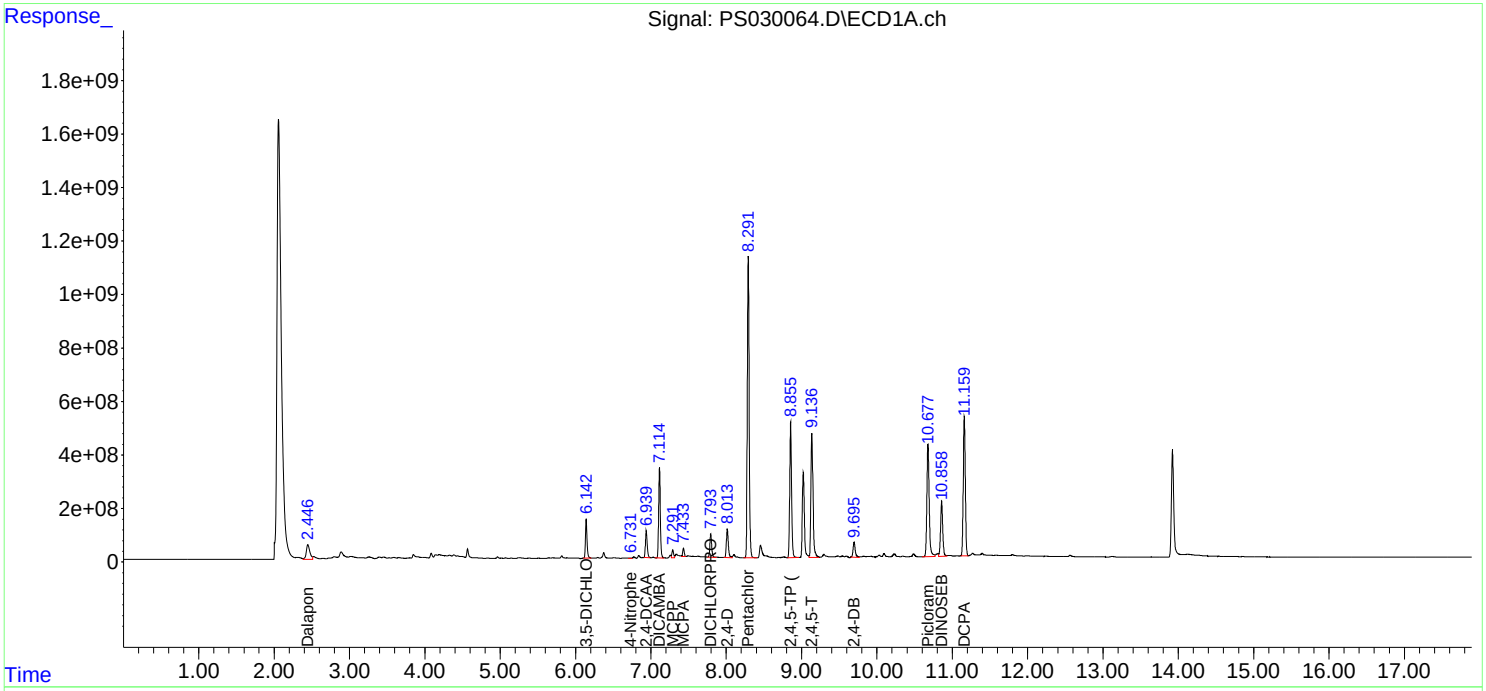
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030064.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 16:16
Operator : AR\AJ
Sample : Q1901-08MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

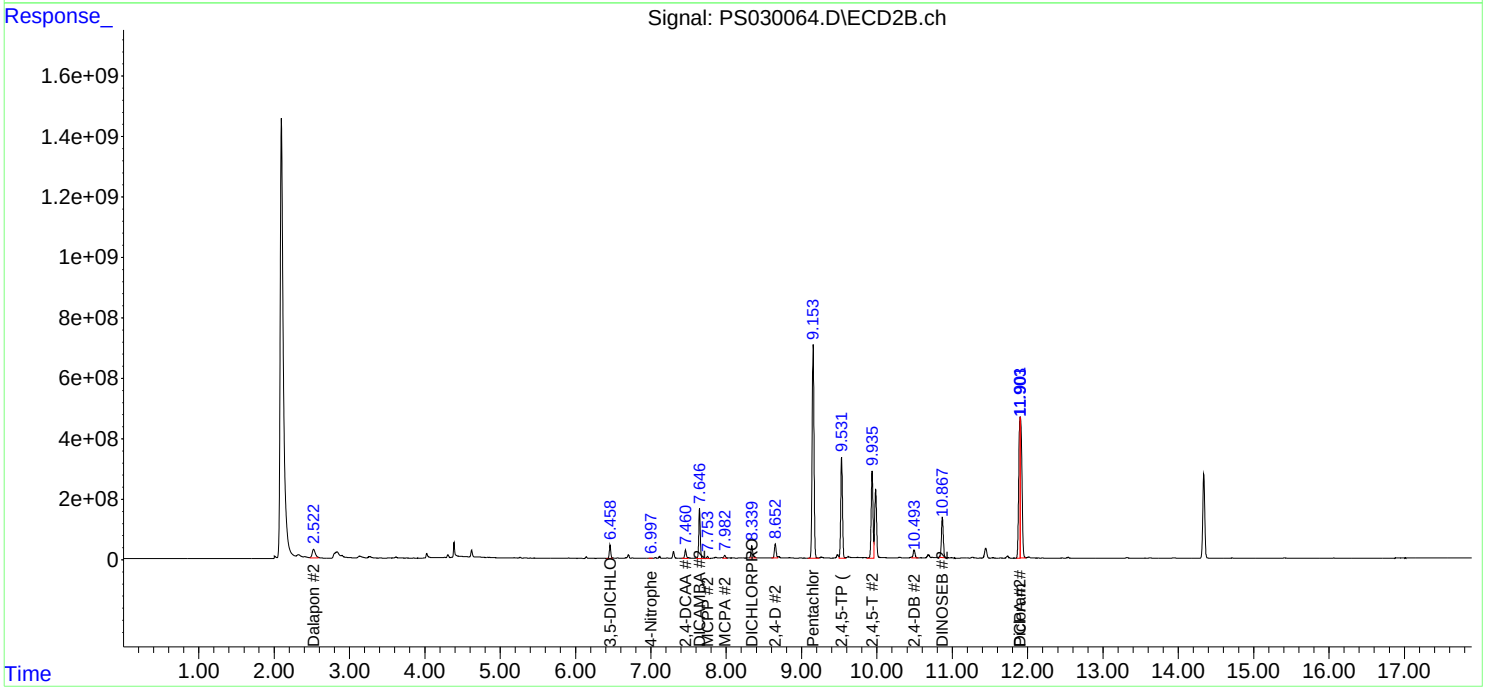
Instrument :
ECD_S
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/07/2025
Supervised By :mohammad ahmed 05/08/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:58:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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

Manual Integration Report

Sequence:	PS042325	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS029919.D	Dalapon	Abdul	4/24/2025 8:49:48 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC200	PS029919.D	DCPA #2	Abdul	4/24/2025 8:49:48 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC200	PS029919.D	Picloram #2	Abdul	4/24/2025 8:49:48 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC500	PS029920.D	DCPA #2	Abdul	4/24/2025 8:49:52 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC500	PS029920.D	Picloram #2	Abdul	4/24/2025 8:49:52 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC750	PS029921.D	DCPA #2	Abdul	4/24/2025 8:49:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC750	PS029921.D	Picloram #2	Abdul	4/24/2025 8:49:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1000	PS029922.D	DCPA #2	Abdul	4/24/2025 8:49:59 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1000	PS029922.D	Picloram #2	Abdul	4/24/2025 8:49:59 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1500	PS029923.D	DCPA #2	Abdul	4/24/2025 8:50:02 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1500	PS029923.D	Picloram #2	Abdul	4/24/2025 8:50:02 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICV750	PS029924.D	DCPA #2	Abdul	4/24/2025 8:50:06 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICV750	PS029924.D	Picloram #2	Abdul	4/24/2025 8:50:06 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS042325	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029926.D	DCPA #2	Abdul	4/24/2025 8:50:10 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029926.D	Picloram #2	Abdul	4/24/2025 8:50:10 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029935.D	DCPA #2	Abdul	4/24/2025 8:50:13 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029935.D	Picloram #2	Abdul	4/24/2025 8:50:13 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029943.D	DCPA #2	Abdul	4/24/2025 8:50:32 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029943.D	Picloram #2	Abdul	4/24/2025 8:50:32 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	DCPA #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	DICAMBA #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	MCPP #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	Picloram #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030052.D	DCPA #2	yogesh	5/7/2025 9:51:43 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030052.D	Picloram #2	yogesh	5/7/2025 9:51:43 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	2,4-DCAA	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	Dalapon	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	Dalapon #2	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	DCPA #2	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	DICAMBA #2	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	DINOSEB	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	MCPA #2	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
PB167871BS	PS030057.D	Picloram #2	yogesh	5/7/2025 9:51:46 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	2,4,5-T	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	2,4-D #2	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030059.D	Dalapon	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	Dalapon #2	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	DCPA #2	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	DICAMBA #2	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	DINOSEB	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	MCPP	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030059.D	Picloram #2	yogesh	5/7/2025 9:51:48 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	2,4-DB	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	2,4-DB #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	3,5-DICHLOROBENZOIC ACID #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	4-Nitrophenol	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	4-Nitrophenol #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-08MS	PS030063.D	Dalapon #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	DCPA #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	MCPA #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	MCPP	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MS	PS030063.D	Picloram #2	yogesh	5/7/2025 9:51:50 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	2,4-DB	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	2,4-DB #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	2,4-DCAA	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	4-Nitrophenol #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	Dalapon #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	DCPA #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-08MSD	PS030064.D	MCPA #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	MCPP	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
Q1901-08MSD	PS030064.D	Picloram #2	yogesh	5/7/2025 9:51:53 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030070.D	DCPA #2	yogesh	5/7/2025 9:51:54 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software
HSTDCCC750	PS030070.D	Picloram #2	yogesh	5/7/2025 9:51:54 AM	mohammad	5/8/2025 2:15:02	Peak Integrated by Software

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM		
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM		
SubDirectory	PS042325	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029917.D	23 Apr 2025 10:13	AR\AJ	Ok
2	I.BLK	PS029918.D	23 Apr 2025 10:37	AR\AJ	Ok
3	HSTDICC200	PS029919.D	23 Apr 2025 11:01	AR\AJ	Ok,M
4	HSTDICC500	PS029920.D	23 Apr 2025 11:25	AR\AJ	Ok,M
5	HSTDICC750	PS029921.D	23 Apr 2025 11:49	AR\AJ	Ok,M
6	HSTDICC1000	PS029922.D	23 Apr 2025 12:13	AR\AJ	Ok,M
7	HSTDICC1500	PS029923.D	23 Apr 2025 12:37	AR\AJ	Ok,M
8	HSTDICV750	PS029924.D	23 Apr 2025 13:01	AR\AJ	Ok,M
9	I.BLK	PS029925.D	23 Apr 2025 13:25	AR\AJ	Ok
10	HSTDCCC750	PS029926.D	23 Apr 2025 13:50	AR\AJ	Ok,M
11	Q1842-06	PS029927.D	23 Apr 2025 14:14	AR\AJ	Ok
12	Q1842-12	PS029928.D	23 Apr 2025 14:38	AR\AJ	Ok
13	Q1842-18	PS029929.D	23 Apr 2025 15:02	AR\AJ	Ok
14	Q1842-24	PS029930.D	23 Apr 2025 15:26	AR\AJ	Ok
15	Q1842-30	PS029931.D	23 Apr 2025 15:50	AR\AJ	Ok
16	Q1842-36	PS029932.D	23 Apr 2025 16:14	AR\AJ	Ok
17	Q1842-42	PS029933.D	23 Apr 2025 16:38	AR\AJ	Ok
18	I.BLK	PS029934.D	23 Apr 2025 17:02	AR\AJ	Ok
19	HSTDCCC750	PS029935.D	23 Apr 2025 17:26	AR\AJ	Ok,M
20	Q1842-06MS	PS029936.D	23 Apr 2025 18:14	AR\AJ	Ok,M
21	Q1842-06MSD	PS029937.D	23 Apr 2025 18:38	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM		
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM		
SubDirectory	PS042325	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB167675BS	PS029938.D	23 Apr 2025 19:02	AR\AJ	Ok,M
23	PB167701BL	PS029939.D	23 Apr 2025 19:27	AR\AJ	Ok
24	PB167701BS	PS029940.D	23 Apr 2025 19:51	AR\AJ	Ok,M
25	PB167660TB	PS029941.D	23 Apr 2025 20:15	AR\AJ	Ok
26	I.BLK	PS029942.D	23 Apr 2025 20:39	AR\AJ	Ok
27	HSTDCCC750	PS029943.D	23 Apr 2025 21:03	AR\AJ	Ok,M
28	PB167710BL	PS029944.D	23 Apr 2025 21:51	AR\AJ	Ok
29	PB167710BS	PS029945.D	23 Apr 2025 22:15	AR\AJ	Ok,M
30	Q1850-01	PS029946.D	23 Apr 2025 22:39	AR\AJ	Ok
31	Q1852-01	PS029947.D	23 Apr 2025 23:03	AR\AJ	Ok
32	Q1852-03	PS029948.D	23 Apr 2025 23:27	AR\AJ	Ok
33	Q1852-05	PS029949.D	23 Apr 2025 23:51	AR\AJ	Ok,M
34	Q1852-07	PS029950.D	24 Apr 2025 00:15	AR\AJ	Ok,M
35	Q1852-07MS	PS029951.D	24 Apr 2025 00:39	AR\AJ	Ok,M
36	Q1852-07MSD	PS029952.D	24 Apr 2025 01:03	AR\AJ	Ok,M
37	I.BLK	PS029953.D	24 Apr 2025 01:27	AR\AJ	Ok
38	HSTDCCC750	PS029954.D	24 Apr 2025 04:15	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS050625

Review By	Abdul	Review On	5/6/2025 3:18:05 PM		
Supervise By	mohammad	Supervise On	5/8/2025 2:15:02 AM		
SubDirectory	PS050625	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030050.D	06 May 2025 08:34	AR\AJ	Ok
2	I.BLK	PS030051.D	06 May 2025 08:58	AR\AJ	Ok
3	HSTDCCC750	PS030052.D	06 May 2025 09:50	AR\AJ	Ok,M
4	Q1929-03	PS030053.D	06 May 2025 11:27	AR\AJ	Ok,M
5	Q1929-07	PS030054.D	06 May 2025 12:09	AR\AJ	Ok
6	Q1929-11	PS030055.D	06 May 2025 12:33	AR\AJ	Ok
7	PB167871BL	PS030056.D	06 May 2025 13:03	AR\AJ	Ok
8	PB167871BS	PS030057.D	06 May 2025 13:27	AR\AJ	Ok,M
9	I.BLK	PS030058.D	06 May 2025 13:51	AR\AJ	Ok
10	HSTDCCC750	PS030059.D	06 May 2025 14:15	AR\AJ	Ok,M
11	PB167774TB	PS030060.D	06 May 2025 14:40	AR\AJ	Ok
12	PB167815TB	PS030061.D	06 May 2025 15:04	AR\AJ	Ok
13	Q1901-08	PS030062.D	06 May 2025 15:28	AR\AJ	Ok
14	Q1901-08MS	PS030063.D	06 May 2025 15:52	AR\AJ	Ok,M
15	Q1901-08MSD	PS030064.D	06 May 2025 16:16	AR\AJ	Ok,M
16	Q1901-09	PS030065.D	06 May 2025 16:40	AR\AJ	Ok
17	Q1901-10	PS030066.D	06 May 2025 17:04	AR\AJ	Ok
18	Q1901-11	PS030067.D	06 May 2025 17:28	AR\AJ	Ok
19	Q1907-02	PS030068.D	06 May 2025 17:52	AR\AJ	Ok
20	I.BLK	PS030069.D	06 May 2025 18:16	AR\AJ	Ok
21	HSTDCCC750	PS030070.D	06 May 2025 18:40	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM		
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM		
SubDirectory	PS042325	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029917.D	23 Apr 2025 10:13		AR\AJ	Ok
2	I.BLK	I.BLK	PS029918.D	23 Apr 2025 10:37		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029919.D	23 Apr 2025 11:01		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS029920.D	23 Apr 2025 11:25		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS029921.D	23 Apr 2025 11:49		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS029922.D	23 Apr 2025 12:13		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS029923.D	23 Apr 2025 12:37		AR\AJ	Ok,M
8	HSTDICV750	ICVPS042325	PS029924.D	23 Apr 2025 13:01		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS029925.D	23 Apr 2025 13:25		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029926.D	23 Apr 2025 13:50		AR\AJ	Ok,M
11	Q1842-06	PL-714-COMP-08	PS029927.D	23 Apr 2025 14:14		AR\AJ	Ok
12	Q1842-12	PL-714-COMP-09	PS029928.D	23 Apr 2025 14:38		AR\AJ	Ok
13	Q1842-18	PL-714-COMP-10	PS029929.D	23 Apr 2025 15:02		AR\AJ	Ok
14	Q1842-24	PL-714-COMP-11	PS029930.D	23 Apr 2025 15:26		AR\AJ	Ok
15	Q1842-30	PL-714-COMP-12	PS029931.D	23 Apr 2025 15:50		AR\AJ	Ok
16	Q1842-36	PL-714-COMP-13	PS029932.D	23 Apr 2025 16:14		AR\AJ	Ok
17	Q1842-42	PL-714-COMP-14	PS029933.D	23 Apr 2025 16:38		AR\AJ	Ok
18	I.BLK	I.BLK	PS029934.D	23 Apr 2025 17:02		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM		
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM		
SubDirectory	PS042325	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	HSTDCCC750	HSTDCCC750	PS029935.D	23 Apr 2025 17:26		AR\AJ	Ok,M
20	Q1842-06MS	PL-714-COMP-08MS	PS029936.D	23 Apr 2025 18:14		AR\AJ	Ok,M
21	Q1842-06MSD	PL-714-COMP-08MSD	PS029937.D	23 Apr 2025 18:38	RPD Fail	AR\AJ	Ok,M
22	PB167675BS	PB167675BS	PS029938.D	23 Apr 2025 19:02		AR\AJ	Ok,M
23	PB167701BL	PB167701BL	PS029939.D	23 Apr 2025 19:27		AR\AJ	Ok
24	PB167701BS	PB167701BS	PS029940.D	23 Apr 2025 19:51		AR\AJ	Ok,M
25	PB167660TB	PB167660TB	PS029941.D	23 Apr 2025 20:15		AR\AJ	Ok
26	I.BLK	I.BLK	PS029942.D	23 Apr 2025 20:39		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS029943.D	23 Apr 2025 21:03		AR\AJ	Ok,M
28	PB167710BL	PB167710BL	PS029944.D	23 Apr 2025 21:51		AR\AJ	Ok
29	PB167710BS	PB167710BS	PS029945.D	23 Apr 2025 22:15		AR\AJ	Ok,M
30	Q1850-01	CONCRETE-PILE-N-C-	PS029946.D	23 Apr 2025 22:39		AR\AJ	Ok
31	Q1852-01	ETGI-354	PS029947.D	23 Apr 2025 23:03		AR\AJ	Ok
32	Q1852-03	72-11977	PS029948.D	23 Apr 2025 23:27		AR\AJ	Ok
33	Q1852-05	ETGI-278	PS029949.D	23 Apr 2025 23:51		AR\AJ	Ok,M
34	Q1852-07	72-12013	PS029950.D	24 Apr 2025 00:15		AR\AJ	Ok,M
35	Q1852-07MS	72-12013MS	PS029951.D	24 Apr 2025 00:39	Some compound recovery fail	AR\AJ	Ok,M
36	Q1852-07MSD	72-12013MSD	PS029952.D	24 Apr 2025 01:03	Some compound recovery fail, RPD fail.	AR\AJ	Ok,M
37	I.BLK	I.BLK	PS029953.D	24 Apr 2025 01:27		AR\AJ	Ok

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM		
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM		
SubDirectory	PS042325	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	HSTDCCC750	HSTDCCC750	PS029954.D	24 Apr 2025 04:15	All comp fail in 2nd column Except comp#1,6,15,16	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS050625

Review By	Abdul	Review On	5/6/2025 3:18:05 PM		
Supervise By	mohammad	Supervise On	5/8/2025 2:15:02 AM		
SubDirectory	PS050625	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030050.D	06 May 2025 08:34		AR\AJ	Ok
2	I.BLK	I.BLK	PS030051.D	06 May 2025 08:58		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030052.D	06 May 2025 09:50		AR\AJ	Ok,M
4	Q1929-03	WC-A4-02-C	PS030053.D	06 May 2025 11:27		AR\AJ	Ok,M
5	Q1929-07	WC-A1-03-C	PS030054.D	06 May 2025 12:09		AR\AJ	Ok
6	Q1929-11	WC-A1-04-C	PS030055.D	06 May 2025 12:33		AR\AJ	Ok
7	PB167871BL	PB167871BL	PS030056.D	06 May 2025 13:03		AR\AJ	Ok
8	PB167871BS	PB167871BS	PS030057.D	06 May 2025 13:27		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030058.D	06 May 2025 13:51		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030059.D	06 May 2025 14:15		AR\AJ	Ok,M
11	PB167774TB	PB167774TB	PS030060.D	06 May 2025 14:40		AR\AJ	Ok
12	PB167815TB	PB167815TB	PS030061.D	06 May 2025 15:04		AR\AJ	Ok
13	Q1901-08	B-167-SB01	PS030062.D	06 May 2025 15:28		AR\AJ	Ok
14	Q1901-08MS	B-167-SB01MS	PS030063.D	06 May 2025 15:52	Comp#5,8 recovery fail	AR\AJ	Ok,M
15	Q1901-08MSD	B-167-SB01MSD	PS030064.D	06 May 2025 16:16	Comp#5,6,8 recovery fail , RPD Fail	AR\AJ	Ok,M
16	Q1901-09	B-170-SB01	PS030065.D	06 May 2025 16:40		AR\AJ	Ok
17	Q1901-10	B-167-SB02	PS030066.D	06 May 2025 17:04		AR\AJ	Ok

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS050625

Review By	Abdul	Review On	5/6/2025 3:18:05 PM		
Supervise By	mohammad	Supervise On	5/8/2025 2:15:02 AM		
SubDirectory	PS050625	HP Acquire Method		HP Processing Method	ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1901-11	B-170-SB02	PS030067.D	06 May 2025 17:28		AR\AJ	Ok
19	Q1907-02	CO-8R-WC	PS030068.D	06 May 2025 17:52		AR\AJ	Ok
20	I.BLK	I.BLK	PS030069.D	06 May 2025 18:16		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS030070.D	06 May 2025 18:40		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/29/2025 **Time :** 17:20

End Prep Date : 04/30/2025 **Time :** 11:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Particle size reduction is not required. q1894-01,02 and 03 we receive limited volume so no fluid determation. Q1901-08 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 13:00	JP Prep Room	SLG RJ/GH
	Preparation Group	Analysis Group MTN,JG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-1
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-1
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-1
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

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TCLP Solid Determination

PB167774

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	100	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	100	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	100	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167774

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.02	96.5	8.4	3.0	#1	4.93
Q1901-09	B-170-SB01	5.01	96.5	9.0	4.0	#1	4.93
Q1901-10	B-167-SB02	5.02	96.5	7.0	3.5	#1	4.93
Q1901-11	B-170-SB02	5.03	96.5	8.2	3.5	#1	4.93
Q1904-02	VNJ-210	5.04	96.5	8.4	3.0	#1	4.93
Q1905-04	MH-G	5.03	96.5	5.6	1.5	#1	4.93
Q1905-08	MH-H	5.02	96.5	6.0	2.0	#1	4.93
Q1906-04	WC-4	5.03	96.5	7.6	2.5	#1	4.93
Q1906-08	WC-5	5.02	96.5	7.0	2.5	#1	4.93
Q1906-12	WC-6	5.01	96.5	6.6	2.0	#1	4.93
Q1906-16	WC-7	5.02	96.5	6.6	2.0	#1	4.93
Q1907-02	CO-8R-WC	5.02	96.5	8.4	3.0	#1	4.93
Q1912-04	MH-E	5.01	96.5	6.6	2.0	#1	4.93
Q1912-08	MH-F	5.02	96.5	6.4	2.0	#1	4.93
Q1913-01	WC-12-S-202504	5.02	96.5	8.2	3.5	#1	4.93
Q1913-03	WC-13-S-202504	5.01	96.5	8.0	3.0	#1	4.93
Q1915-01	WC-04282025	5.02	96.5	8.4	3.5	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q1907 **WorkList ID :** 189188 **Department :** TCLP Extraction **Date :** 04-29-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1913-03	WC-13-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1915-01	WC-04282025	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1901-08	B-167-SB01	Solid	TCLP Extraction	Cool 4 deg C	CAMP02	L41	04/28/2025	1311
Q1901-09	B-170-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-10	B-167-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-11	B-170-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-01	PAINTED-GROUND-PIPE--1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-02	PAINTED-GROUND-PIPE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1894-03	PAINTED-GROUND-PIPE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1904-02	VNJ-210	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1905-04	MH-G	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1905-08	MH-H	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-04	WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-08	WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-12	WC-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-16	WC-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-04	MH-E	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-08	MH-F	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311
Q1907-02	CO-8R-WC	Solid	TCLP Extraction	Cool 4 deg C	WALS01		04/28/2025	1311

Date/Time 04/29/25 17:00
Raw Sample Received by: ~~SG~~ WOC
Raw Sample Relinquished by: JD CSM

Date/Time 04/29/25 19:30
Raw Sample Received by: JD CSM
Raw Sample Relinquished by: ~~SG~~ WOC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167871

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,7

Extraction Start Date : 05/05/2025

Extraction Start Time : 08:50

Extraction End Date : 05/05/2025

Extraction End Time : 15:55

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24484
Surrogate	1.0ML	5000 PPB	PP24424
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3881
Acidified Na2SO4	N/A	EP2576
12N H2SO4	N/A	EP2605
NAOH 6N	N/A	EP2606
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14622
Diazomethane	N/A	EP2608
Hexane	N/A	E3933
NACL	N/A	M4459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS723.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/5/25	RS (EH-Lab)	[signature] 1808 / 18CB Lab
16:00	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167871

Analytical Method: M8151A-Herbicide-22

Concentration Date: 05/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167774TB	PB167774TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-1
PB167815TB	PB167815TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			2
PB167871BL	HBLK871	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
PB167871BS	HLCS871	TCLP Herbicide	1000	6	RUPESH	ritesh	10			4
Q1901-08	B-167-SB01	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q1901-08MS	B-167-SB01MS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q1901-08MSD	B-167-SB01MSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
Q1901-09	B-170-SB01	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8
Q1901-10	B-167-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		9
Q1901-11	B-170-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		10
Q1907-02	CO-8R-WC	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		11
Q1929-03	WC-A4-02-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
Q1929-07	WC-A1-03-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
Q1929-11	WC-A1-04-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14

RS
5/5

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB16777

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

04/30/25
23:00

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TCLP EXTRACTION LOGPAGE

PB167815

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Po
PB167815TB	LEB815	19	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1865-08	SOM-25-00051	01	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1916-04	WC-12	02	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1917-04	MH-JJ	03	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1922-04	MH-R	04	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q1922-08	MH-S	05	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q1925-01	AUD-25-0068	06	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1925-02	AUD-25-0069	07	100.01	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1925-03	AUD-25-0070	08	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1928-04	MH-Q	09	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1929-03	WC-AA-02-C	10	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q1929-07	WC-AA-03-C	11	100.03	2000	N/A	N/A	N/A	11.5	1.5	T-2
Q1929-11	WC-AA-04-C	12	100.02	2000	N/A	N/A	N/A	12.0	1.0	T-2
Q1932-02	COMP-4	13	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1932-04	COMP-5	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q1932-06	COMP-6	15	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1932-08	COMP-7	16	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q1935-04	MH-NN	17	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1935-08	MH-MM	18	100.01	2000	N/A	N/A	N/A	3.0	1.0	T-2

05/02/25

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	82.6 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015766.D	1	04/29/25 10:49	04/29/25 14:51	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	3220	J	465	3430	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	10.3		37 - 130	52%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	83 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015767.D	1	04/29/25 10:49	04/29/25 15:20	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	51300		461	3410	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.2		37 - 130	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	53.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015768.D	1	04/29/25 10:49	04/29/25 15:49	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	9080		721	5320	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.4		37 - 130	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	75.1 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015769.D	1	04/29/25 10:49	04/29/25 16:19	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	3830		511	3770	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.0		37 - 130	60%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
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D = Dilution
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() = Laboratory InHouse Limit

QC SUMMARY

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SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Portal Partners Tri-Venture

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015763.D	93				0
PIBLK-FG015771.D	90				0
PIBLK-FG015780.D	90				0
PB167783BL	77				0
PB167783BS	86				0
AU-6-042425MS	71				0
AU-6-042425MSD	70				0
B-167-SB01	52				0
B-170-SB01	81				0
B-167-SB02	97				0
B-170-SB02	60				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Client SampleID : AU-6-042425MS **Datafile:** FG015776.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12085	149000	135000	-116%	*	68-131

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Client SampleID : AU-6-042425MSD **Datafile:** FG015777.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12093	149000	136000	-108%	*	68-131

MS/MSD % Recovery RPD : 7

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SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Matrix Spike - EPA Sample No : PB167783BS **Datafile:** FG015774.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	8212	72	68-131

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167783BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: FG015773.D Lab Sample ID: PB167783BL

Instrument ID: FG Date Extracted: 04/29/2025

Matrix: (soil/water) Soil Date Analyzed: 04/29/25

Level: (low/med) low Time Analyzed: 19:15

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
B-167-SB01	Q1901-02	FG015766.D	04/29/25
B-170-SB01	Q1901-03	FG015767.D	04/29/25
B-167-SB02	Q1901-04	FG015768.D	04/29/25
B-170-SB02	Q1901-05	FG015769.D	04/29/25
PB167783BS	PB167783BS	FG015774.D	04/29/25
AU-6-042425MS	Q1877-01MS	FG015776.D	04/29/25
AU-6-042425MSD	Q1877-01MSD	FG015777.D	04/29/25

COMMENTS:

QC SAMPLE DATA

Raw Data: **FG015773.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167783BL	SDG No.:	Q1901
Lab Sample ID:	PB167783BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015773.D	1	04/29/25 10:49	04/29/25 19:15	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	15.3		37 - 130	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-FG015763.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-FG015763.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015763.D	1		04/29/25	FG042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.5		29 - 130	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-FG015771.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-FG015771.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015771.D	1		04/29/25	FG042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.0		29 - 130	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-FG015780.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-FG015780.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015780.D	1		04/29/25	FG042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.1		29 - 130	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167783BS	SDG No.:	Q1901
Lab Sample ID:	PB167783BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015774.D	1	04/29/25 10:49	04/29/25 19:44	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8210		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.1		37 - 130	86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/24/25
Client Sample ID:	AU-6-042425MS	SDG No.:	Q1901
Lab Sample ID:	Q1877-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	93.5 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015776.D	1	04/29/25 10:49	04/29/25 20:43	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	135000	E	409	3020	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.3		37 - 130	71%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/24/25
Client Sample ID:	AU-6-042425MSD	SDG No.:	Q1901
Lab Sample ID:	Q1877-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	93.5 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015777.D	1	04/29/25 10:49	04/29/25 21:13	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	136000	E	410	3020	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.0		37 - 130	70%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Calibration Sequence : FG042425		Test : TPH GC	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1700	193935875	114080	FG015756.D
850	102468017	120551	FG015757.D
340	41273634	121393	FG015758.D
170	22173981	130435	FG015759.D
85	10166512	119606	FG015760.D
AVG RF : 121213	**% RSD : 4.863**		**AVG RT : 15.0012**

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

DataFile: FG015764.D Analyst Name: YP\AJ Analyst Date: 04-29-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	104759568	123247	121213	1.678

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

DataFile: FG015772.D Analyst Name: YP\AJ Analyst Date: 04-29-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	103719858	122023	121213	0.668

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

DataFile: FG015781.D Analyst Name: YP\AJ Analyst Date: 04-29-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	104113155	122486	121213	1.05

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.0012**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	29 Apr 2025 12:24	FG015763.D	15.000	
50 PPM TRPH STD	50 PPM TRPH STD	29 Apr 2025 12:53	FG015764.D	15.002	
B-167-SB01	Q1901-02	29 Apr 2025 14:51	FG015766.D	14.999	
B-170-SB01	Q1901-03	29 Apr 2025 15:20	FG015767.D	14.950	
B-167-SB02	Q1901-04	29 Apr 2025 15:49	FG015768.D	15.000	
B-170-SB02	Q1901-05	29 Apr 2025 16:19	FG015769.D	14.999	
PIBLK02	I.BLK02	29 Apr 2025 17:17	FG015771.D	15.002	
50 PPM TRPH STD	50 PPM TRPH STD	29 Apr 2025 18:16	FG015772.D	15.004	
PB167783BL	PB167783BL	29 Apr 2025 19:15	FG015773.D	15.002	
PB167783BS	PB167783BS	29 Apr 2025 19:44	FG015774.D	15.001	
AU-6-042425MS	Q1877-01MS	29 Apr 2025 20:43	FG015776.D	14.952	
AU-6-042425MSD	Q1877-01MSD	29 Apr 2025 21:13	FG015777.D	14.958	
PIBLK03	I.BLK03	29 Apr 2025 22:41	FG015780.D	15.007	
50 PPM TRPH STD	50 PPM TRPH STD	29 Apr 2025 23:40	FG015781.D	15.009	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.9012	15.1012

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015766.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 14:51
Operator : YP\AJ
Sample : Q1901-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:18:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.999	1215176	10.321 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

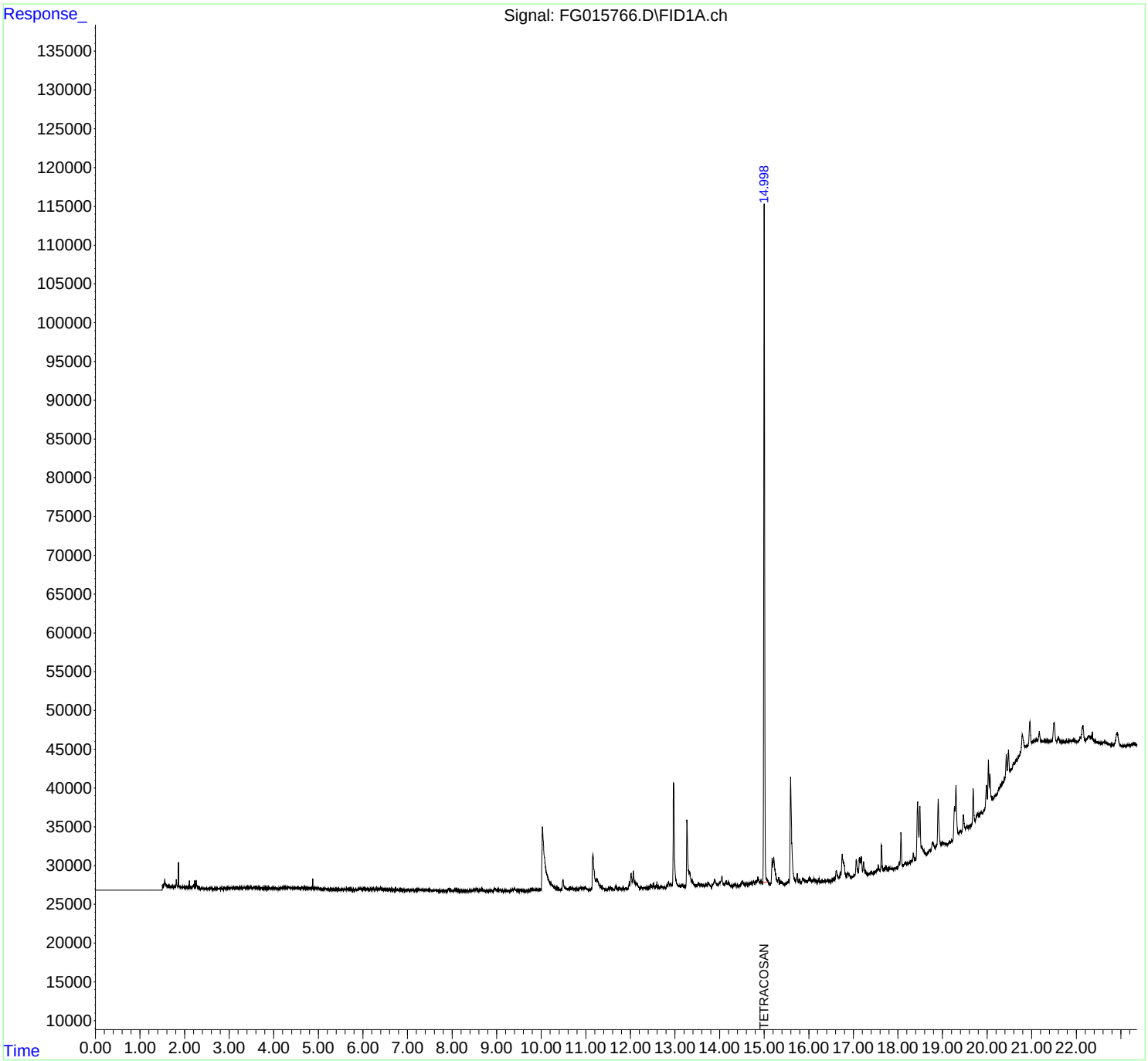
Sample Results: **FG015766.D**

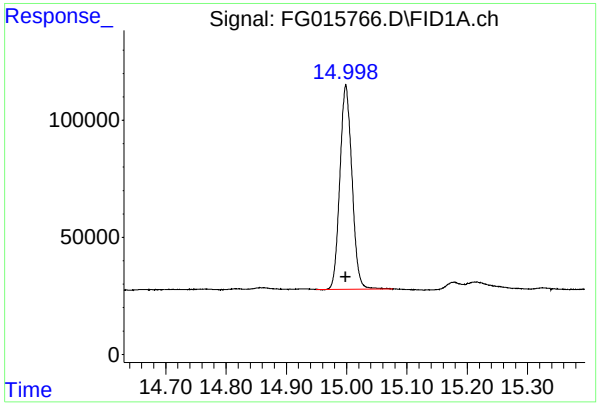
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015766.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 14:51
Operator : YP\AJ
Sample : Q1901-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:18:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.999 min
Delta R.T.: 0.000 mi
Response: 1215176
Conc: 10.32 ug/m

Instrument :
FID_G
ClientSampleId :
B-167-SB01

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015766.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 14:51
Sample : Q1901-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.915	1.900	1.931	BV	96	821	0.07%	0.008%
2	1.934	1.931	1.943	PV	147	459	0.04%	0.004%
3	1.951	1.943	1.968	VV	116	942	0.08%	0.009%
4	1.986	1.968	2.002	VV	175	2036	0.16%	0.019%
5	2.010	2.002	2.029	VV	107	1151	0.09%	0.011%
6	2.033	2.029	2.037	PV	82	249	0.02%	0.002%
7	2.054	2.037	2.086	VV	250	2463	0.20%	0.023%
8	2.092	2.086	2.104	VV	135	587	0.05%	0.005%
9	2.107	2.104	2.125	VV	858	1467	0.12%	0.013%
10	2.134	2.125	2.138	VV	92	596	0.05%	0.005%
11	2.144	2.138	2.151	VV	124	633	0.05%	0.006%
12	2.154	2.151	2.170	PV	77	867	0.07%	0.008%
13	2.193	2.170	2.222	VV	403	8343	0.67%	0.077%
14	2.224	2.222	2.238	VV	945	2048	0.16%	0.019%
15	2.240	2.238	2.247	VV	518	1175	0.09%	0.011%
16	2.260	2.247	2.295	VV	1137	14391	1.15%	0.132%
17	2.305	2.295	2.328	VV	296	3657	0.29%	0.034%
18	2.331	2.328	2.387	VV	159	2384	0.19%	0.022%
19	2.392	2.387	2.403	VV	103	609	0.05%	0.006%
20	2.406	2.403	2.423	PV	116	921	0.07%	0.008%
21	2.430	2.423	2.437	VV	105	616	0.05%	0.006%
22	2.440	2.437	2.453	VV	140	858	0.07%	0.008%
23	2.457	2.453	2.462	PV	114	472	0.04%	0.004%
24	2.470	2.462	2.473	VV	127	692	0.06%	0.006%
25	2.483	2.473	2.495	VV	169	1461	0.12%	0.013%
26	2.501	2.495	2.505	VV	186	514	0.04%	0.005%
27	2.526	2.505	2.536	VV	157	2040	0.16%	0.019%
28	2.542	2.536	2.554	VV	165	1060	0.08%	0.010%
29	2.560	2.554	2.574	PV	193	1265	0.10%	0.012%
30	2.579	2.574	2.592	VV	116	959	0.08%	0.009%
31	2.598	2.592	2.605	VV	117	721	0.06%	0.007%
32	2.609	2.605	2.615	VV	132	542	0.04%	0.005%
33	2.619	2.615	2.624	VV	145	512	0.04%	0.005%
34	2.629	2.624	2.637	VV	127	727	0.06%	0.007%
35	2.643	2.637	2.652	VV	138	855	0.07%	0.008%
36	2.669	2.652	2.683	VV	137	1651	0.13%	0.015%

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37	2.723	2.683	2.747	VV	194	4297	0.34%	0.040%
38	2.749	2.747	2.760	VV	158	835	0.07%	0.008%
39	2.766	2.760	2.772	VV	183	912	0.07%	0.008%
40	2.776	2.772	2.790	VV	158	1487	0.12%	0.014%
41	2.795	2.790	2.807	VV	167	1315	0.11%	0.012%
42	2.813	2.807	2.834	VV	170	2206	0.18%	0.020%
43	2.836	2.834	2.844	VV	189	769	0.06%	0.007%
44	2.850	2.844	2.872	VV	169	2082	0.17%	0.019%
45	2.882	2.872	2.889	VV	293	1439	0.11%	0.013%
46	2.892	2.889	2.897	VV	194	729	0.06%	0.007%
47	2.905	2.897	2.912	VV	172	1172	0.09%	0.011%
48	2.922	2.912	2.928	VV	190	1380	0.11%	0.013%
49	2.933	2.928	2.963	VV	184	2649	0.21%	0.024%
50	2.978	2.963	2.982	VV	240	1836	0.15%	0.017%
51	2.988	2.982	2.993	VV	212	1145	0.09%	0.011%
52	3.000	2.993	3.010	VV	223	1539	0.12%	0.014%
53	3.014	3.010	3.024	VV	226	1350	0.11%	0.012%
54	3.042	3.024	3.057	VV	260	4032	0.32%	0.037%
55	3.063	3.057	3.082	VV	265	3130	0.25%	0.029%
56	3.106	3.082	3.126	VV	280	5680	0.45%	0.052%
57	3.132	3.126	3.157	VV	279	4052	0.32%	0.037%
58	3.172	3.157	3.181	VV	273	3411	0.27%	0.031%
59	3.189	3.181	3.222	VV	339	6213	0.50%	0.057%
60	3.226	3.222	3.229	VV	275	1011	0.08%	0.009%
61	3.232	3.229	3.242	VV	269	1930	0.15%	0.018%
62	3.245	3.242	3.265	VV	269	3132	0.25%	0.029%
63	3.276	3.265	3.282	VV	296	2509	0.20%	0.023%
64	3.289	3.282	3.316	VV	271	4775	0.38%	0.044%
65	3.326	3.316	3.342	VV	273	3728	0.30%	0.034%
66	3.348	3.342	3.353	VV	299	1729	0.14%	0.016%
67	3.359	3.353	3.367	VV	309	2151	0.17%	0.020%
68	3.372	3.367	3.477	VV	291	16689	1.33%	0.153%
69	3.491	3.477	3.536	VV	309	9140	0.73%	0.084%
70	3.547	3.536	3.632	VV	329	15584	1.25%	0.143%
71	3.646	3.632	3.658	VV	305	4132	0.33%	0.038%
72	3.665	3.658	3.708	VV	295	7800	0.62%	0.072%
73	3.715	3.708	3.748	VV	310	5927	0.47%	0.054%
74	3.754	3.748	3.771	VV	255	3199	0.26%	0.029%
75	3.811	3.771	3.845	VV	268	9841	0.79%	0.090%
76	3.852	3.845	3.859	VV	248	2037	0.16%	0.019%
77	3.867	3.859	3.959	VV	305	12573	1.00%	0.116%
78	3.985	3.959	4.023	VV	241	7970	0.64%	0.073%
79	4.039	4.023	4.066	VV	231	5289	0.42%	0.049%
80	4.077	4.066	4.102	VV	266	4432	0.35%	0.041%
81	4.109	4.102	4.121	VV	190	2083	0.17%	0.019%
82	4.131	4.121	4.139	VV	189	2045	0.16%	0.019%
83	4.194	4.139	4.204	VV	334	10630	0.85%	0.098%
84	4.240	4.204	4.279	VV	398	14423	1.15%	0.133%
85	4.333	4.279	4.434	VV	382	28027	2.24%	0.258%
86	4.461	4.434	4.491	VV	365	9229	0.74%	0.085%
87	4.515	4.491	4.529	VV	376	6574	0.53%	0.060%
88	4.541	4.529	4.599	VV	350	11408	0.91%	0.105%
89	4.630	4.599	4.665	VV	475	12006	0.96%	0.110%

rteres

90	4.683	4.665	4.771	VV	346	17456	1.39%	0.160%
91	4.790	4.771	4.841	VV	316	10230	0.82%	0.094%
92	4.848	4.841	4.871	VV	263	4523	0.36%	0.042%
93	4.875	4.871	4.889	VV	806	3677	0.29%	0.034%
94	4.922	4.889	4.942	VV	297	8063	0.64%	0.074%
95	4.964	4.942	4.985	VV	283	6463	0.52%	0.059%
96	4.995	4.985	5.025	VV	268	5590	0.45%	0.051%
97	5.040	5.025	5.056	VV	232	3925	0.31%	0.036%
98	5.070	5.056	5.115	VV	224	6390	0.51%	0.059%
99	5.171	5.115	5.205	VV	251	10010	0.80%	0.092%
100	5.227	5.205	5.278	VV	209	6701	0.54%	0.062%
101	5.286	5.278	5.301	VV	171	1983	0.16%	0.018%
102	5.315	5.301	5.375	VV	162	5194	0.41%	0.048%
103	5.382	5.375	5.440	VV	168	4162	0.33%	0.038%
104	5.487	5.440	5.541	VV	191	7589	0.61%	0.070%
105	5.557	5.541	5.701	VV	193	13315	1.06%	0.122%
106	5.714	5.701	5.755	VV	178	3869	0.31%	0.036%
107	5.760	5.755	5.788	VV	171	2310	0.18%	0.021%
108	5.821	5.788	5.868	VV	163	5777	0.46%	0.053%
109	5.961	5.868	6.018	VV	274	17683	1.41%	0.163%
110	6.094	6.018	6.150	VV	232	14408	1.15%	0.132%
111	6.175	6.150	6.201	VV	209	5271	0.42%	0.048%
112	6.221	6.201	6.274	VV	232	8448	0.67%	0.078%
113	6.397	6.274	6.543	VV	397	32990	2.64%	0.303%
114	6.575	6.543	6.648	VV	165	9410	0.75%	0.087%
115	6.687	6.648	6.863	VV	185	17946	1.43%	0.165%
116	6.874	6.863	6.944	VV	143	4578	0.37%	0.042%
117	6.998	6.944	7.068	VV	189	9951	0.79%	0.091%
118	7.097	7.068	7.124	VV	155	3874	0.31%	0.036%
119	7.167	7.124	7.201	VV	180	5549	0.44%	0.051%
120	7.262	7.201	7.361	VV	213	14590	1.17%	0.134%
121	7.374	7.361	7.567	VV	179	15637	1.25%	0.144%
122	7.584	7.567	7.615	VV	146	3282	0.26%	0.030%
123	7.624	7.615	7.701	VV	118	5249	0.42%	0.048%
124	7.724	7.701	7.764	VV	85	2327	0.19%	0.021%
125	7.773	7.764	7.789	VV	70	776	0.06%	0.007%
126	7.851	7.789	7.882	VV	96	2959	0.24%	0.027%
127	7.920	7.882	7.985	VV	330	8996	0.72%	0.083%
128	8.059	7.985	8.078	VV	218	7419	0.59%	0.068%
129	8.092	8.078	8.172	VV	320	7938	0.63%	0.073%
130	8.205	8.172	8.246	VV	103	2808	0.22%	0.026%
131	8.316	8.246	8.358	PV	120	4844	0.39%	0.045%
132	8.416	8.358	8.444	VV	140	3716	0.30%	0.034%
133	8.560	8.444	8.618	VV	353	18214	1.46%	0.167%
134	8.666	8.618	8.724	VV	336	12039	0.96%	0.111%
135	8.754	8.724	8.833	VV	139	5703	0.46%	0.052%
136	8.879	8.833	8.928	VV	194	5545	0.44%	0.051%
137	8.955	8.928	9.015	VV	377	12124	0.97%	0.111%
138	9.030	9.015	9.049	VV	194	3949	0.32%	0.036%
139	9.065	9.049	9.106	VV	217	5517	0.44%	0.051%
140	9.131	9.106	9.157	VV	112	2677	0.21%	0.025%
141	9.185	9.157	9.241	VV	171	4950	0.40%	0.046%

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142	9.397	9.241	9.496	VV	346	23985	1.92%	0.220%
143	9.535	9.496	9.631	VV	260	9479	0.76%	0.087%
144	9.649	9.631	9.665	PV	83	1339	0.11%	0.012%
145	9.683	9.665	9.738	VV	90	2654	0.21%	0.024%
146	9.772	9.738	9.866	VV	286	16795	1.34%	0.154%
147	9.899	9.866	9.935	VV	316	9766	0.78%	0.090%
148	9.963	9.935	9.983	VV	420	6965	0.56%	0.064%
149	10.031	9.983	10.447	VV	8057	465980	37.23%	4.284%
150	10.487	10.447	10.588	VV	1403	43370	3.46%	0.399%
151	10.646	10.588	10.678	VV	295	13820	1.10%	0.127%
152	10.693	10.678	10.725	VV	380	7617	0.61%	0.070%
153	10.750	10.725	10.831	VV	255	12730	1.02%	0.117%
154	10.884	10.831	10.931	VV	385	17640	1.41%	0.162%
155	10.980	10.931	11.088	VV	389	23063	1.84%	0.212%
156	11.159	11.088	11.224	VV	4593	139484	11.14%	1.282%
157	11.249	11.224	11.491	VV	1510	84565	6.76%	0.777%
158	11.580	11.491	11.641	VV	295	14348	1.15%	0.132%
159	11.666	11.641	11.719	PV	468	11957	0.96%	0.110%
160	11.743	11.719	11.821	VV	321	8587	0.69%	0.079%
161	11.898	11.821	11.940	VV	237	7338	0.59%	0.067%
162	12.013	11.940	12.042	VV	2003	58646	4.69%	0.539%
163	12.065	12.042	12.125	VV	2323	60777	4.86%	0.559%
164	12.142	12.125	12.214	VV	817	24618	1.97%	0.226%
165	12.251	12.214	12.281	VV	273	6442	0.51%	0.059%
166	12.347	12.281	12.372	VV	284	9210	0.74%	0.085%
167	12.407	12.372	12.427	VV	202	5022	0.40%	0.046%
168	12.456	12.427	12.491	VV	590	11642	0.93%	0.107%
169	12.509	12.491	12.555	VV	775	14618	1.17%	0.134%
170	12.603	12.555	12.662	VV	478	18452	1.47%	0.170%
171	12.696	12.662	12.738	VV	290	9737	0.78%	0.090%
172	12.755	12.738	12.791	VV	198	4533	0.36%	0.042%
173	12.852	12.791	12.875	VV	789	21812	1.74%	0.201%
174	12.894	12.875	12.935	VV	572	16055	1.28%	0.148%
175	12.969	12.935	13.123	VV	13565	275231	21.99%	2.530%
176	13.160	13.123	13.233	VV	488	17595	1.41%	0.162%
177	13.268	13.233	13.367	VV	8484	219442	17.53%	2.017%
178	13.384	13.367	13.451	VV	858	29907	2.39%	0.275%
179	13.471	13.451	13.490	VV	349	7240	0.58%	0.067%
180	13.519	13.490	13.554	VV	513	14319	1.14%	0.132%
181	13.576	13.554	13.658	VV	463	19154	1.53%	0.176%
182	13.693	13.658	13.717	VV	432	9902	0.79%	0.091%
183	13.749	13.717	13.825	VV	630	20391	1.63%	0.187%
184	13.888	13.825	13.965	VV	958	40212	3.21%	0.370%
185	14.050	13.965	14.111	VV	1404	52317	4.18%	0.481%
186	14.147	14.111	14.181	VV	715	19956	1.59%	0.183%
187	14.201	14.181	14.284	VV	559	15709	1.26%	0.144%
188	14.354	14.284	14.438	PV	260	11370	0.91%	0.105%
189	14.462	14.438	14.478	VV	242	3999	0.32%	0.037%
190	14.509	14.478	14.559	VV	600	18542	1.48%	0.170%
191	14.610	14.559	14.639	VV	264	10598	0.85%	0.097%
192	14.665	14.639	14.684	VV	364	7081	0.57%	0.065%
193	14.714	14.684	14.735	VV	381	10227	0.82%	0.094%
194	14.764	14.735	14.790	VV	527	13558	1.08%	0.125%

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195	14.860	14.790	14.908	VV	1070	42508	3.40%	0.391%
196	14.928	14.908	14.961	VV	528	13902	1.11%	0.128%
197	14.999	14.961	15.128	VV	87023	1251738	100.00%	11.507%
198	15.179	15.128	15.194	VV	3350	56728	4.53%	0.521%
199	15.214	15.194	15.305	VV	3425	116688	9.32%	1.073%
200	15.325	15.305	15.377	VV	935	22144	1.77%	0.204%
201	15.401	15.377	15.455	VV	358	8524	0.68%	0.078%
202	15.539	15.455	15.558	PV	356	11973	0.96%	0.110%
203	15.593	15.558	15.708	VV	13507	339250	27.10%	3.119%
204	15.742	15.708	15.771	VV	1310	27049	2.16%	0.249%
205	15.790	15.771	15.831	VV	512	9398	0.75%	0.086%
206	15.862	15.831	15.967	VV	661	28618	2.29%	0.263%
207	16.019	15.967	16.088	VV	582	25670	2.05%	0.236%
208	16.119	16.088	16.181	VV	487	16537	1.32%	0.152%
209	16.229	16.181	16.265	VV	522	10258	0.82%	0.094%
210	16.365	16.265	16.393	PV	193	8336	0.67%	0.077%
211	16.456	16.393	16.488	PV	155	6176	0.49%	0.057%
212	16.618	16.488	16.684	PV	1292	48295	3.86%	0.444%
213	16.750	16.684	16.851	VV	3301	135288	10.81%	1.244%
214	16.876	16.851	16.965	VV	694	24558	1.96%	0.226%
215	17.068	16.965	17.107	VV	2247	57265	4.57%	0.526%
216	17.142	17.107	17.160	VV	2340	50753	4.05%	0.467%
217	17.178	17.160	17.206	VV	2445	46112	3.68%	0.424%
218	17.229	17.206	17.345	VV	1745	46281	3.70%	0.425%
219	17.408	17.345	17.458	VV	253	10507	0.84%	0.097%
220	17.560	17.458	17.597	PV	689	29960	2.39%	0.275%
221	17.631	17.597	17.698	VV	3479	60738	4.85%	0.558%
222	17.729	17.698	17.771	VV	624	14735	1.18%	0.135%
223	17.816	17.771	17.890	VV	261	12518	1.00%	0.115%
224	17.955	17.890	17.985	PV	143	5236	0.42%	0.048%
225	18.068	17.985	18.118	PV	4358	76347	6.10%	0.702%
226	18.162	18.118	18.195	VV	415	8524	0.68%	0.078%
227	18.296	18.195	18.313	VV	257	6620	0.53%	0.061%
228	18.346	18.313	18.376	PV	1019	17769	1.42%	0.163%
229	18.441	18.376	18.470	VV	7358	162004	12.94%	1.489%
230	18.492	18.470	18.647	VV	6673	171920	13.73%	1.580%
231	18.705	18.647	18.727	VV	406	11615	0.93%	0.107%
232	18.777	18.727	18.834	VV	1146	43778	3.50%	0.402%
233	18.903	18.834	18.978	VV	6361	148378	11.85%	1.364%
234	19.011	18.978	19.098	VV	495	19982	1.60%	0.184%
235	19.163	19.098	19.181	PV	211	3468	0.28%	0.032%
236	19.301	19.181	19.355	PV	6900	207673	16.59%	1.909%
237	19.403	19.355	19.431	VV	486	18758	1.50%	0.172%
238	19.469	19.431	19.521	VV	2253	52051	4.16%	0.478%
239	19.548	19.521	19.575	VV	533	11601	0.93%	0.107%
240	19.596	19.575	19.615	VV	349	5892	0.47%	0.054%
241	19.689	19.615	19.725	VV	4721	83660	6.68%	0.769%
242	19.793	19.725	19.816	VV	994	41034	3.28%	0.377%
243	19.868	19.816	19.898	VV	856	37066	2.96%	0.341%
244	19.986	19.898	20.005	VV	3830	108942	8.70%	1.001%
245	20.030	20.005	20.048	VV	6893	117245	9.37%	1.078%
246	20.064	20.048	20.128	VV	4986	131222	10.48%	1.206%

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247	20.431	20.128	20.452	VV	5861	485897	38.82%	4.467%
248	20.479	20.452	20.518	VV	6175	180606	14.43%	1.660%
249	20.591	20.518	20.615	VV	4158	214311	17.12%	1.970%
250	20.792	20.615	20.851	VV	6908	701057	56.01%	6.445%
251	20.892	20.851	20.918	VV	5092	201176	16.07%	1.849%
252	20.959	20.918	21.003	VV	7872	311056	24.85%	2.860%
253	21.085	21.003	21.138	VV	4996	397654	31.77%	3.656%
254	21.170	21.138	21.227	VV	5645	254623	20.34%	2.341%
255	21.310	21.227	21.385	VV	3903	363955	29.08%	3.346%
256	21.406	21.385	21.438	VV	3401	108172	8.64%	0.994%
257	21.504	21.438	21.560	VV	5409	280083	22.38%	2.575%
258	21.599	21.560	21.763	VV	3113	286834	22.91%	2.637%
259	21.783	21.763	21.815	VV	1769	52468	4.19%	0.482%
260	21.916	21.815	21.941	VV	1317	105791	8.45%	0.973%
261	21.953	21.941	22.041	VV	1173	51643	4.13%	0.475%
262	22.146	22.041	22.201	VBA	2217	114534	9.15%	1.053%

Sum of corrected areas: 10877953

FG042425.M Wed Apr 30 02:08:31 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015767.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:20
Operator : YP\AJ
Sample : Q1901-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.000	1910629	16.228 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

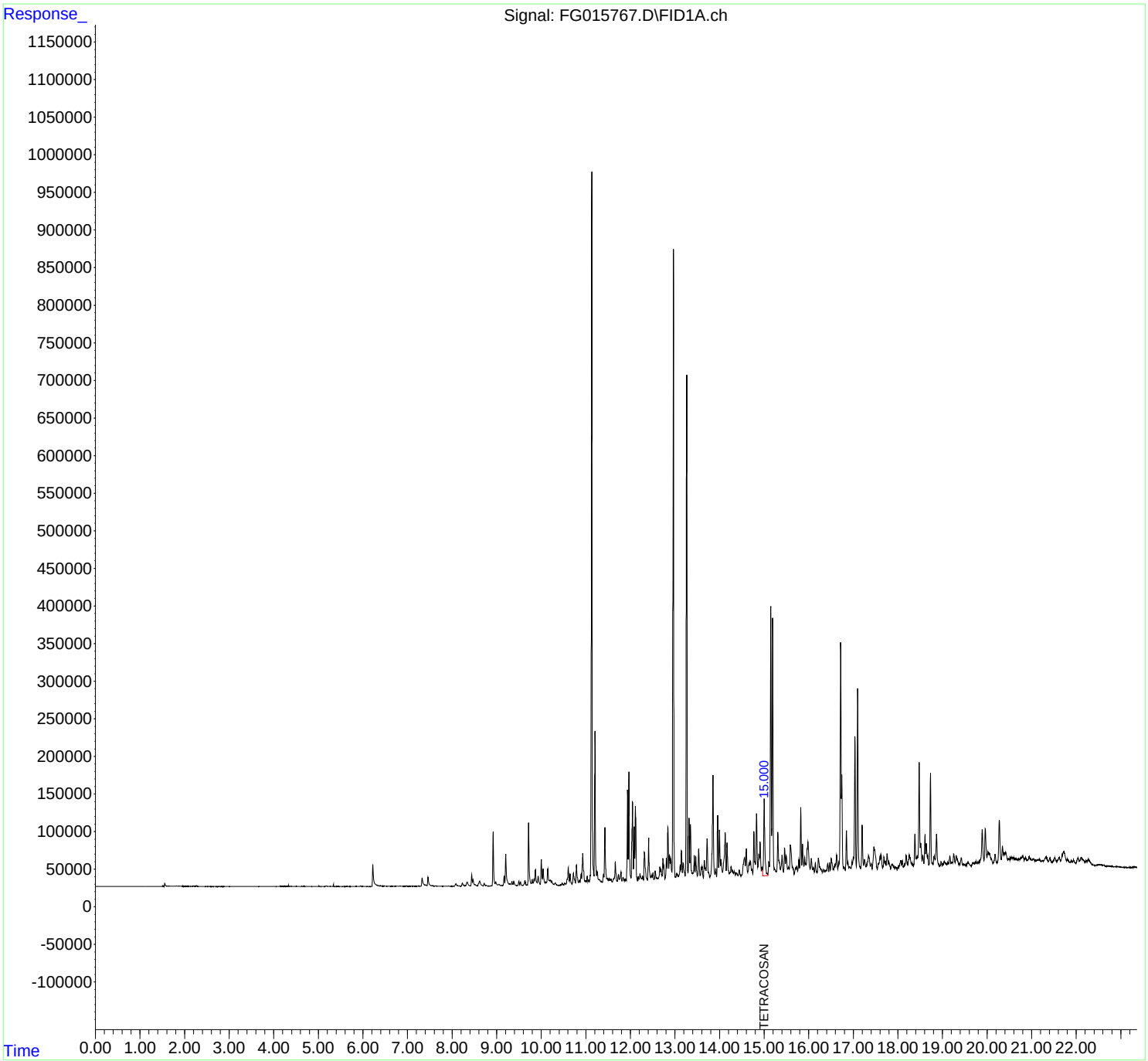
Sample Results: **FG015767.D**

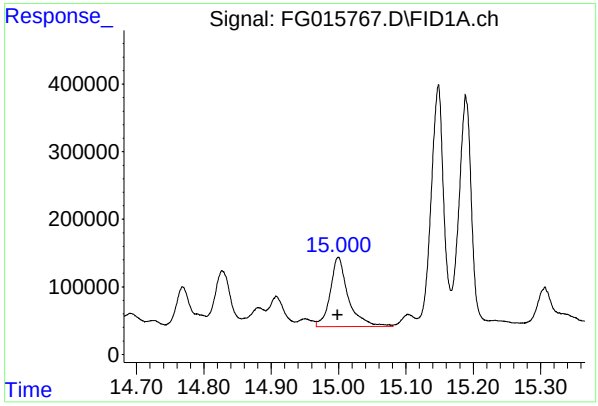
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015767.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:20
Operator : YP\AJ
Sample : Q1901-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.000 min
Delta R.T.: 0.001 mi
Response: 1910629
Conc: 16.23 ug/m

Instrument :
FID_G
ClientSampleId :
B-170-SB01

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015767.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:20
Sample : Q1901-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.913	1.900	1.942	BV	53	233	0.00%	0.000%
2	1.946	1.942	1.957	VV	118	599	0.01%	0.000%
3	1.964	1.957	1.973	PV	548	1230	0.01%	0.001%
4	1.979	1.973	1.998	VV	196	1540	0.01%	0.001%
5	2.002	1.998	2.009	VV	115	583	0.01%	0.000%
6	2.014	2.009	2.019	VV	93	397	0.00%	0.000%
7	2.046	2.019	2.051	VV	173	1619	0.01%	0.001%
8	2.057	2.051	2.087	VV	247	2389	0.02%	0.002%
9	2.091	2.087	2.095	VV	153	360	0.00%	0.000%
10	2.098	2.095	2.113	VV	111	616	0.01%	0.000%
11	2.115	2.113	2.121	VV	76	191	0.00%	0.000%
12	2.124	2.121	2.133	VV	67	375	0.00%	0.000%
13	2.136	2.133	2.152	VV	117	703	0.01%	0.000%
14	2.158	2.152	2.170	VV	49	667	0.01%	0.000%
15	2.196	2.170	2.227	VV	487	8967	0.08%	0.006%
16	2.232	2.227	2.244	VV	224	1776	0.02%	0.001%
17	2.261	2.244	2.294	VV	1163	16711	0.15%	0.011%
18	2.298	2.294	2.323	VV	276	2985	0.03%	0.002%
19	2.327	2.323	2.343	VV	94	970	0.01%	0.001%
20	2.385	2.343	2.392	PV	146	1973	0.02%	0.001%
21	2.394	2.392	2.412	VV	126	908	0.01%	0.001%
22	2.419	2.412	2.435	VV	110	850	0.01%	0.001%
23	2.441	2.435	2.451	VV	93	689	0.01%	0.000%
24	2.456	2.451	2.465	VV	155	644	0.01%	0.000%
25	2.470	2.465	2.478	PV	124	516	0.00%	0.000%
26	2.485	2.478	2.497	VV	157	899	0.01%	0.001%
27	2.504	2.497	2.514	VV	112	902	0.01%	0.001%
28	2.523	2.514	2.536	VV	200	1510	0.01%	0.001%
29	2.547	2.536	2.580	VV	165	2651	0.02%	0.002%
30	2.585	2.580	2.594	VV	108	699	0.01%	0.000%
31	2.598	2.594	2.623	VV	97	1025	0.01%	0.001%
32	2.641	2.623	2.652	VV	153	1337	0.01%	0.001%
33	2.660	2.652	2.670	VV	180	1130	0.01%	0.001%
34	2.676	2.670	2.680	VV	145	640	0.01%	0.000%
35	2.684	2.680	2.699	VV	165	1173	0.01%	0.001%
36	2.715	2.699	2.722	VV	138	1210	0.01%	0.001%

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37	2.727	2.722	2.736	VV	121	612	0.01%	0.000%
38	2.740	2.736	2.751	VV	117	624	0.01%	0.000%
39	2.756	2.751	2.766	VV	72	679	0.01%	0.000%
40	2.769	2.766	2.784	VV	128	925	0.01%	0.001%
41	2.793	2.784	2.807	VV	124	1174	0.01%	0.001%
42	2.814	2.807	2.822	VV	167	1098	0.01%	0.001%
43	2.828	2.822	2.841	VV	116	902	0.01%	0.001%
44	2.845	2.841	2.850	VV	100	335	0.00%	0.000%
45	2.857	2.850	2.872	VV	117	936	0.01%	0.001%
46	2.875	2.872	2.883	VV	130	534	0.00%	0.000%
47	2.891	2.883	2.902	VV	167	1068	0.01%	0.001%
48	2.905	2.902	2.914	VV	111	715	0.01%	0.000%
49	2.917	2.914	2.925	VV	176	686	0.01%	0.000%
50	2.933	2.925	2.982	VV	221	4594	0.04%	0.003%
51	2.985	2.982	3.006	VV	172	1658	0.01%	0.001%
52	3.009	3.006	3.015	VV	94	515	0.00%	0.000%
53	3.050	3.015	3.062	VV	203	4298	0.04%	0.003%
54	3.071	3.062	3.082	VV	182	1740	0.02%	0.001%
55	3.108	3.082	3.118	VV	220	3283	0.03%	0.002%
56	3.127	3.118	3.140	VV	175	1774	0.02%	0.001%
57	3.145	3.140	3.154	VV	197	1081	0.01%	0.001%
58	3.163	3.154	3.177	VV	198	2171	0.02%	0.001%
59	3.182	3.177	3.188	VV	210	1070	0.01%	0.001%
60	3.196	3.188	3.215	VV	209	2667	0.02%	0.002%
61	3.221	3.215	3.228	VV	204	1446	0.01%	0.001%
62	3.246	3.228	3.277	VV	276	5879	0.05%	0.004%
63	3.282	3.277	3.296	VV	216	2134	0.02%	0.001%
64	3.305	3.296	3.334	VV	226	3880	0.03%	0.002%
65	3.340	3.334	3.345	VV	208	1139	0.01%	0.001%
66	3.352	3.345	3.364	VV	236	2190	0.02%	0.001%
67	3.367	3.364	3.376	VV	258	1479	0.01%	0.001%
68	3.385	3.376	3.406	VV	225	2868	0.03%	0.002%
69	3.410	3.406	3.421	VV	178	1419	0.01%	0.001%
70	3.435	3.421	3.446	VV	207	2567	0.02%	0.002%
71	3.465	3.446	3.469	VV	220	2418	0.02%	0.002%
72	3.477	3.469	3.508	VV	208	4037	0.04%	0.003%
73	3.514	3.508	3.518	VV	198	831	0.01%	0.001%
74	3.533	3.518	3.537	VV	228	1948	0.02%	0.001%
75	3.549	3.537	3.556	VV	229	2195	0.02%	0.001%
76	3.567	3.556	3.571	VV	219	1659	0.01%	0.001%
77	3.595	3.571	3.622	VV	261	5996	0.05%	0.004%
78	3.633	3.622	3.642	VV	201	1945	0.02%	0.001%
79	3.647	3.642	3.677	VV	189	2913	0.03%	0.002%
80	3.683	3.677	3.689	VV	215	1122	0.01%	0.001%
81	3.699	3.689	3.704	VV	204	1606	0.01%	0.001%
82	3.712	3.704	3.722	VV	188	1569	0.01%	0.001%
83	3.725	3.722	3.730	VV	188	701	0.01%	0.000%
84	3.741	3.730	3.760	VV	205	2833	0.02%	0.002%
85	3.764	3.760	3.803	VV	202	3933	0.03%	0.003%
86	3.807	3.803	3.822	VV	178	1512	0.01%	0.001%
87	3.846	3.822	3.851	VV	225	2947	0.03%	0.002%
88	3.857	3.851	3.901	VV	231	5458	0.05%	0.003%
89	3.913	3.901	3.919	VV	165	1478	0.01%	0.001%

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90	3.924	3.919	3.929	VV	171	839	0.01%	0.001%
91	3.937	3.929	3.955	VV	177	2632	0.02%	0.002%
92	3.959	3.955	3.997	VV	199	3854	0.03%	0.002%
93	4.002	3.997	4.007	VV	136	718	0.01%	0.000%
94	4.009	4.007	4.014	VV	165	516	0.00%	0.000%
95	4.019	4.014	4.023	VV	154	649	0.01%	0.000%
96	4.025	4.023	4.029	VV	126	413	0.00%	0.000%
97	4.041	4.029	4.057	VV	181	2259	0.02%	0.001%
98	4.082	4.057	4.102	VV	223	3730	0.03%	0.002%
99	4.104	4.102	4.110	VV	181	666	0.01%	0.000%
100	4.116	4.110	4.120	VV	136	794	0.01%	0.001%
101	4.174	4.120	4.195	VV	374	13209	0.12%	0.008%
102	4.210	4.195	4.217	VV	376	4252	0.04%	0.003%
103	4.243	4.217	4.312	VV	415	20061	0.18%	0.013%
104	4.316	4.312	4.323	VV	399	2156	0.02%	0.001%
105	4.332	4.323	4.360	VV	985	7965	0.07%	0.005%
106	4.373	4.360	4.415	VV	338	8851	0.08%	0.006%
107	4.456	4.415	4.488	VV	304	10804	0.09%	0.007%
108	4.506	4.488	4.540	VV	352	9152	0.08%	0.006%
109	4.549	4.540	4.568	VV	313	4646	0.04%	0.003%
110	4.580	4.568	4.604	VV	289	5158	0.05%	0.003%
111	4.627	4.604	4.645	VV	294	5765	0.05%	0.004%
112	4.670	4.645	4.739	VV	606	19945	0.17%	0.013%
113	4.763	4.739	4.774	VV	267	4848	0.04%	0.003%
114	4.793	4.774	4.813	VV	274	4766	0.04%	0.003%
115	4.818	4.813	4.825	VV	226	1311	0.01%	0.001%
116	4.832	4.825	4.845	VV	250	2112	0.02%	0.001%
117	4.849	4.845	4.886	VV	247	4799	0.04%	0.003%
118	4.900	4.886	4.914	VV	241	3253	0.03%	0.002%
119	4.921	4.914	4.931	VV	249	2417	0.02%	0.002%
120	4.943	4.931	4.960	VV	217	3607	0.03%	0.002%
121	5.014	4.960	5.057	VV	553	14068	0.12%	0.009%
122	5.070	5.057	5.124	VV	231	6646	0.06%	0.004%
123	5.131	5.124	5.145	VV	188	1631	0.01%	0.001%
124	5.174	5.145	5.241	VV	949	24604	0.22%	0.016%
125	5.267	5.241	5.290	VV	387	8298	0.07%	0.005%
126	5.302	5.290	5.317	VV	266	3419	0.03%	0.002%
127	5.339	5.317	5.361	VV	2142	7013	0.06%	0.004%
128	5.375	5.361	5.421	VV	230	5227	0.05%	0.003%
129	5.430	5.421	5.460	VV	131	2699	0.02%	0.002%
130	5.488	5.460	5.556	VV	309	10831	0.10%	0.007%
131	5.567	5.556	5.589	VV	187	2497	0.02%	0.002%
132	5.607	5.589	5.625	VV	160	2565	0.02%	0.002%
133	5.654	5.625	5.712	VV	406	10131	0.09%	0.006%
134	5.767	5.712	5.782	PV	283	7551	0.07%	0.005%
135	5.809	5.782	5.822	VV	376	7054	0.06%	0.004%
136	5.846	5.822	5.885	VV	464	12811	0.11%	0.008%
137	5.944	5.885	5.989	VV	851	23813	0.21%	0.015%
138	5.998	5.989	6.029	VV	318	6340	0.06%	0.004%
139	6.038	6.029	6.095	VV	302	6479	0.06%	0.004%
140	6.126	6.095	6.147	VV	179	3296	0.03%	0.002%
141	6.187	6.147	6.197	VV	198	3750	0.03%	0.002%

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142	6.224	6.197	6.387	VV	28953	584469	5.13%	0.372%
143	6.400	6.387	6.440	VV	1004	24995	0.22%	0.016%
144	6.449	6.440	6.537	VV	646	27197	0.24%	0.017%
145	6.571	6.537	6.664	VV	539	25762	0.23%	0.016%
146	6.687	6.664	6.717	VV	464	10522	0.09%	0.007%
147	6.774	6.717	6.794	VV	399	15564	0.14%	0.010%
148	6.805	6.794	6.820	VV	469	6898	0.06%	0.004%
149	6.840	6.820	6.931	VV	574	23168	0.20%	0.015%
150	6.941	6.931	6.950	VV	241	2638	0.02%	0.002%
151	6.972	6.950	6.997	VV	516	8570	0.08%	0.005%
152	7.008	6.997	7.038	VV	281	5351	0.05%	0.003%
153	7.049	7.038	7.060	VV	192	2211	0.02%	0.001%
154	7.091	7.060	7.127	VV	432	9488	0.08%	0.006%
155	7.139	7.127	7.163	VV	335	4954	0.04%	0.003%
156	7.182	7.163	7.191	VV	174	2291	0.02%	0.001%
157	7.258	7.191	7.286	VV	527	17844	0.16%	0.011%
158	7.330	7.286	7.437	VV	11267	284293	2.49%	0.181%
159	7.462	7.437	7.567	VV	12554	255047	2.24%	0.162%
160	7.572	7.567	7.620	VV	668	15698	0.14%	0.010%
161	7.637	7.620	7.685	VV	737	16280	0.14%	0.010%
162	7.692	7.685	7.701	VV	272	2147	0.02%	0.001%
163	7.716	7.701	7.784	VV	311	8774	0.08%	0.006%
164	7.812	7.784	7.845	VV	247	5467	0.05%	0.003%
165	7.863	7.845	7.889	VV	233	4516	0.04%	0.003%
166	7.917	7.889	7.944	VV	518	8700	0.08%	0.006%
167	7.957	7.944	7.965	VV	132	1407	0.01%	0.001%
168	7.973	7.965	7.987	VV	107	992	0.01%	0.001%
169	8.012	7.987	8.037	PV	129	2669	0.02%	0.002%
170	8.083	8.037	8.159	VV	3356	89798	0.79%	0.057%
171	8.167	8.159	8.204	VV	489	10796	0.09%	0.007%
172	8.232	8.204	8.307	VV	4326	102419	0.90%	0.065%
173	8.342	8.307	8.412	VV	5611	154121	1.35%	0.098%
174	8.443	8.412	8.460	VV	15073	193950	1.70%	0.123%
175	8.473	8.460	8.507	VV	8836	149462	1.31%	0.095%
176	8.518	8.507	8.565	VV	2325	46932	0.41%	0.030%
177	8.618	8.565	8.699	VV	6795	224054	1.97%	0.143%
178	8.722	8.699	8.754	VV	4060	65408	0.57%	0.042%
179	8.768	8.754	8.838	VV	1453	29229	0.26%	0.019%
180	8.877	8.838	8.892	PV	587	10475	0.09%	0.007%
181	8.923	8.892	8.965	VV	72835	909043	7.97%	0.578%
182	8.981	8.965	9.026	VV	5834	125849	1.10%	0.080%
183	9.055	9.026	9.106	VV	2644	75589	0.66%	0.048%
184	9.118	9.106	9.135	VV	1057	14760	0.13%	0.009%
185	9.170	9.135	9.185	VV	13208	170352	1.49%	0.108%
186	9.206	9.185	9.283	VV	42480	734516	6.44%	0.467%
187	9.299	9.283	9.324	VV	3399	64716	0.57%	0.041%
188	9.344	9.324	9.367	VV	5827	89555	0.79%	0.057%
189	9.385	9.367	9.470	VV	6302	126334	1.11%	0.080%
190	9.499	9.470	9.518	VV	6403	80321	0.70%	0.051%
191	9.535	9.518	9.572	VV	5409	80706	0.71%	0.051%
192	9.589	9.572	9.597	VV	839	10210	0.09%	0.006%
193	9.635	9.597	9.663	VV	7015	121330	1.06%	0.077%
194	9.678	9.663	9.692	VV	1434	19859	0.17%	0.013%

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195	9.718	9.692	9.777	VV	83805	1182305	10.37%	0.752%
196	9.798	9.777	9.817	VV	8185	124584	1.09%	0.079%
197	9.841	9.817	9.851	VV	9313	124773	1.09%	0.079%
198	9.870	9.851	9.910	VV	21473	378478	3.32%	0.241%
199	9.932	9.910	9.978	VV	12542	252509	2.21%	0.161%
200	10.003	9.978	10.028	VV	34216	483162	4.24%	0.307%
201	10.045	10.028	10.084	VV	22574	377443	3.31%	0.240%
202	10.097	10.084	10.115	VV	5119	79809	0.70%	0.051%
203	10.149	10.115	10.177	VV	22230	411938	3.61%	0.262%
204	10.186	10.177	10.195	VV	6843	70101	0.61%	0.045%
205	10.206	10.195	10.224	VV	7424	109656	0.96%	0.070%
206	10.237	10.224	10.277	VV	5670	110507	0.97%	0.070%
207	10.317	10.277	10.389	VV	3728	94646	0.83%	0.060%
208	10.423	10.389	10.447	PV	467	10526	0.09%	0.007%
209	10.470	10.447	10.504	VV	3139	44644	0.39%	0.028%
210	10.524	10.504	10.556	VV	2757	51846	0.45%	0.033%
211	10.609	10.556	10.632	VV	23007	449903	3.95%	0.286%
212	10.649	10.632	10.687	VV	14681	228398	2.00%	0.145%
213	10.724	10.687	10.768	VV	15775	331115	2.90%	0.211%
214	10.791	10.768	10.837	VV	26319	468829	4.11%	0.298%
215	10.859	10.837	10.873	VV	5950	90751	0.80%	0.058%
216	10.895	10.873	10.907	VV	13932	178518	1.57%	0.114%
217	10.932	10.907	10.989	VV	41477	879857	7.72%	0.560%
218	11.001	10.989	11.014	VV	4944	65379	0.57%	0.042%
219	11.032	11.014	11.048	VV	10790	135385	1.19%	0.086%
220	11.062	11.048	11.081	VV	5515	86796	0.76%	0.055%
221	11.135	11.081	11.182	VV	946890	11400932	100.00%	7.252%
222	11.206	11.182	11.240	VV	203083	2595463	22.77%	1.651%
223	11.255	11.240	11.287	VV	16471	311437	2.73%	0.198%
224	11.299	11.287	11.340	VV	5684	140531	1.23%	0.089%
225	11.347	11.340	11.367	VV	3050	39163	0.34%	0.025%
226	11.398	11.367	11.408	VV	12530	167594	1.47%	0.107%
227	11.429	11.408	11.470	VV	74464	1104103	9.68%	0.702%
228	11.478	11.470	11.512	VV	6832	135026	1.18%	0.086%
229	11.527	11.512	11.547	VV	6844	107023	0.94%	0.068%
230	11.563	11.547	11.590	VV	5285	99372	0.87%	0.063%
231	11.663	11.590	11.702	VV	28062	615368	5.40%	0.391%
232	11.731	11.702	11.752	VV	10731	183204	1.61%	0.117%
233	11.787	11.752	11.814	VV	14360	273278	2.40%	0.174%
234	11.836	11.814	11.853	VV	7109	113086	0.99%	0.072%
235	11.865	11.853	11.880	VV	4552	56128	0.49%	0.036%
236	11.895	11.880	11.909	VV	4670	57478	0.50%	0.037%
237	11.935	11.909	11.950	VV	122787	1380672	12.11%	0.878%
238	11.966	11.950	12.012	VV	146935	1876669	16.46%	1.194%
239	12.047	12.012	12.067	VV	106823	1718882	15.08%	1.093%
240	12.085	12.067	12.098	VV	74286	884258	7.76%	0.562%
241	12.115	12.098	12.159	VV	100124	1409638	12.36%	0.897%
242	12.176	12.159	12.192	VV	7054	90120	0.79%	0.057%
243	12.214	12.192	12.255	VV	10891	248306	2.18%	0.158%
244	12.273	12.255	12.292	VV	8039	120626	1.06%	0.077%
245	12.315	12.292	12.384	VV	38929	793324	6.96%	0.505%
246	12.408	12.384	12.457	VV	58325	868393	7.62%	0.552%

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247	12.475	12.457	12.492	VV	7877	138567	1.22%	0.088%
248	12.507	12.492	12.527	VV	11182	142637	1.25%	0.091%
249	12.556	12.527	12.582	VV	13649	228366	2.00%	0.145%
250	12.610	12.582	12.627	VV	4079	102580	0.90%	0.065%
251	12.661	12.627	12.675	VV	18924	307055	2.69%	0.195%
252	12.684	12.675	12.710	VV	15810	233461	2.05%	0.149%
253	12.730	12.710	12.772	VV	29464	573700	5.03%	0.365%
254	12.806	12.772	12.820	VV	30025	424417	3.72%	0.270%
255	12.840	12.820	12.860	VV	71026	985341	8.64%	0.627%
256	12.876	12.860	12.894	VV	33466	544001	4.77%	0.346%
257	12.905	12.894	12.930	VV	29372	473256	4.15%	0.301%
258	12.964	12.930	13.014	VV	827232	10283905	90.20%	6.541%
259	13.034	13.014	13.044	VV	9508	124748	1.09%	0.079%
260	13.054	13.044	13.078	VV	8397	137823	1.21%	0.088%
261	13.117	13.078	13.129	VV	20310	348732	3.06%	0.222%
262	13.144	13.129	13.163	VV	38788	510767	4.48%	0.325%
263	13.185	13.163	13.229	VV	22135	557539	4.89%	0.355%
264	13.262	13.229	13.292	VV	671705	8163212	71.60%	5.193%
265	13.313	13.292	13.330	VV	81141	987718	8.66%	0.628%
266	13.346	13.330	13.379	VV	73342	1048176	9.19%	0.667%
267	13.388	13.379	13.399	VV	8988	101558	0.89%	0.065%
268	13.432	13.399	13.449	VV	31965	493932	4.33%	0.314%
269	13.467	13.449	13.500	VV	29942	517671	4.54%	0.329%
270	13.530	13.500	13.569	VV	40556	669217	5.87%	0.426%
271	13.589	13.569	13.600	VV	15872	221922	1.95%	0.141%
272	13.609	13.600	13.633	VV	17049	200813	1.76%	0.128%
273	13.657	13.633	13.674	VV	25108	357777	3.14%	0.228%
274	13.682	13.674	13.695	VV	14803	175616	1.54%	0.112%
275	13.719	13.695	13.778	VV	53844	990301	8.69%	0.630%
276	13.850	13.778	13.895	VV	137538	2430770	21.32%	1.546%
277	13.914	13.895	13.931	VV	13340	183818	1.61%	0.117%
278	13.957	13.931	13.979	VV	84605	1125579	9.87%	0.716%
279	13.996	13.979	14.019	VV	63940	876860	7.69%	0.558%
280	14.033	14.019	14.065	VV	25167	454162	3.98%	0.289%
281	14.125	14.065	14.148	VV	60888	1376612	12.07%	0.876%
282	14.167	14.148	14.217	VV	47205	842120	7.39%	0.536%
283	14.259	14.217	14.282	VV	14637	366808	3.22%	0.233%
284	14.288	14.282	14.312	VV	9573	149629	1.31%	0.095%
285	14.328	14.312	14.348	VV	8856	153068	1.34%	0.097%
286	14.361	14.348	14.372	VV	6413	85318	0.75%	0.054%
287	14.384	14.372	14.417	VV	6024	122891	1.08%	0.078%
288	14.440	14.417	14.477	VV	10443	215440	1.89%	0.137%
289	14.557	14.477	14.577	VV	26103	832973	7.31%	0.530%
290	14.599	14.577	14.629	VV	37862	650469	5.71%	0.414%
291	14.664	14.629	14.679	VV	19332	404362	3.55%	0.257%
292	14.691	14.679	14.715	VV	21138	353484	3.10%	0.225%
293	14.725	14.715	14.744	VV	10623	140901	1.24%	0.090%
294	14.769	14.744	14.804	VV	60437	1026722	9.01%	0.653%
295	14.828	14.804	14.857	VV	84117	1399415	12.27%	0.890%
296	14.882	14.857	14.891	VV	28852	452377	3.97%	0.288%
297	14.908	14.891	14.936	VV	46422	727823	6.38%	0.463%
298	14.950	14.936	14.967	VV	12772	192013	1.68%	0.122%
299	15.000	14.967	15.080	VV	103928	1985948	17.42%	1.263%

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300	15.104	15.080	15.116	VV	18836	254576	2.23%	0.162%
301	15.148	15.116	15.167	VV	356140	4653853	40.82%	2.960%
302	15.189	15.167	15.224	VV	342208	4432902	38.88%	2.820%
303	15.232	15.224	15.272	VV	9890	221806	1.95%	0.141%
304	15.306	15.272	15.365	VV	57854	1269737	11.14%	0.808%
305	15.400	15.365	15.432	VV	27229	581226	5.10%	0.370%
306	15.458	15.432	15.477	VV	36463	576054	5.05%	0.366%
307	15.493	15.477	15.530	VV	26733	562310	4.93%	0.358%
308	15.545	15.530	15.562	VV	11261	191843	1.68%	0.122%
309	15.589	15.562	15.672	VV	40409	1188549	10.43%	0.756%
310	15.733	15.672	15.752	VV	11628	375055	3.29%	0.239%
311	15.776	15.752	15.793	VV	20642	322677	2.83%	0.205%
312	15.820	15.793	15.842	VV	89528	1219120	10.69%	0.775%
313	15.859	15.842	15.890	VV	40688	689893	6.05%	0.439%
314	15.908	15.890	15.942	VV	23272	509056	4.47%	0.324%
315	15.981	15.942	16.034	VV	43390	1340498	11.76%	0.853%
316	16.057	16.034	16.087	VV	20733	416622	3.65%	0.265%
317	16.105	16.087	16.127	VV	9290	160440	1.41%	0.102%
318	16.147	16.127	16.189	VV	14898	264353	2.32%	0.168%
319	16.216	16.189	16.303	VV	21638	655088	5.75%	0.417%
320	16.324	16.303	16.343	VV	6217	102531	0.90%	0.065%
321	16.360	16.343	16.375	VV	5412	80571	0.71%	0.051%
322	16.383	16.375	16.398	VV	4724	60296	0.53%	0.038%
323	16.423	16.398	16.447	VV	13352	242236	2.12%	0.154%
324	16.464	16.447	16.484	VV	14997	205828	1.81%	0.131%
325	16.505	16.484	16.557	VV	20350	499027	4.38%	0.317%
326	16.625	16.557	16.650	VV	24754	699691	6.14%	0.445%
327	16.670	16.650	16.682	VV	14762	219528	1.93%	0.140%
328	16.716	16.682	16.732	VV	303378	4319621	37.89%	2.748%
329	16.740	16.732	16.777	VV	130706	1551231	13.61%	0.987%
330	16.789	16.777	16.812	VV	8032	142106	1.25%	0.090%
331	16.844	16.812	16.869	VV	56066	842151	7.39%	0.536%
332	16.878	16.869	16.899	VV	14614	198006	1.74%	0.126%
333	16.917	16.899	16.932	VV	7906	147492	1.29%	0.094%
334	16.969	16.932	16.978	VV	14266	251692	2.21%	0.160%
335	17.036	16.978	17.067	VV	181129	2934923	25.74%	1.867%
336	17.097	17.067	17.163	VV	244226	3507190	30.76%	2.231%
337	17.197	17.163	17.230	VV	63106	1056200	9.26%	0.672%
338	17.251	17.230	17.286	VV	16920	400280	3.51%	0.255%
339	17.341	17.286	17.382	VV	22223	808808	7.09%	0.514%
340	17.399	17.382	17.421	VV	11224	197165	1.73%	0.125%
341	17.460	17.421	17.539	VV	33447	1259722	11.05%	0.801%
342	17.561	17.539	17.569	VV	10781	147398	1.29%	0.094%
343	17.598	17.569	17.610	VV	20917	384598	3.37%	0.245%
344	17.625	17.610	17.659	VV	21829	405666	3.56%	0.258%
345	17.687	17.659	17.704	VV	18888	327668	2.87%	0.208%
346	17.717	17.704	17.734	VV	13997	199246	1.75%	0.127%
347	17.757	17.734	17.785	VV	22357	473271	4.15%	0.301%
348	17.795	17.785	17.841	VV	12268	269278	2.36%	0.171%
349	17.875	17.841	17.902	VV	9053	263801	2.31%	0.168%
350	17.915	17.902	17.929	VV	5827	78098	0.69%	0.050%
351	17.945	17.929	17.984	VV	5268	137000	1.20%	0.087%

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352	18.063	17.984	18.081	VV	13869	448582	3.93%	0.285%
353	18.097	18.081	18.127	VV	13415	246953	2.17%	0.157%
354	18.184	18.127	18.214	VV	20247	563802	4.95%	0.359%
355	18.257	18.214	18.309	VV	20554	773545	6.78%	0.492%
356	18.319	18.309	18.344	VV	8503	154301	1.35%	0.098%
357	18.381	18.344	18.415	VV	48252	921448	8.08%	0.586%
358	18.433	18.415	18.449	VV	19277	341818	3.00%	0.217%
359	18.477	18.449	18.500	VV	143305	2178490	19.11%	1.386%
360	18.513	18.500	18.541	VV	35553	635718	5.58%	0.404%
361	18.558	18.541	18.582	VV	19054	354432	3.11%	0.225%
362	18.607	18.582	18.624	VV	46785	695136	6.10%	0.442%
363	18.638	18.624	18.659	VV	34342	543920	4.77%	0.346%
364	18.670	18.659	18.698	VV	18958	305707	2.68%	0.194%
365	18.730	18.698	18.787	VV	127291	1977397	17.34%	1.258%
366	18.813	18.787	18.837	VV	17124	383276	3.36%	0.244%
367	18.866	18.837	18.938	VV	46615	1045878	9.17%	0.665%
368	18.969	18.938	18.990	VV	9588	213267	1.87%	0.136%
369	19.001	18.990	19.010	VV	6642	71995	0.63%	0.046%
370	19.043	19.010	19.066	VV	10562	266502	2.34%	0.170%
371	19.078	19.066	19.100	VV	7466	136823	1.20%	0.087%
372	19.121	19.100	19.136	VV	7935	149062	1.31%	0.095%
373	19.166	19.136	19.194	VV	16514	362870	3.18%	0.231%
374	19.216	19.194	19.225	VV	7763	145107	1.27%	0.092%
375	19.252	19.225	19.285	VV	19158	455333	3.99%	0.290%
376	19.308	19.285	19.365	VV	16589	528693	4.64%	0.336%
377	19.373	19.365	19.392	VV	6343	84723	0.74%	0.054%
378	19.423	19.392	19.465	VV	13490	356561	3.13%	0.227%
379	19.478	19.465	19.510	VV	4835	120736	1.06%	0.077%
380	19.528	19.510	19.542	VV	4325	75295	0.66%	0.048%
381	19.568	19.542	19.646	VV	7141	292891	2.57%	0.186%
382	19.687	19.646	19.715	VV	6391	214483	1.88%	0.136%
383	19.749	19.715	19.779	VV	8514	251798	2.21%	0.160%
384	19.789	19.779	19.805	VV	6954	102325	0.90%	0.065%
385	19.818	19.805	19.832	VV	8268	117798	1.03%	0.075%
386	19.891	19.832	19.930	VV	49790	1220845	10.71%	0.777%
387	19.960	19.930	19.996	VV	51018	1099136	9.64%	0.699%
388	20.027	19.996	20.040	VV	20295	465428	4.08%	0.296%
389	20.048	20.040	20.132	VV	17616	644594	5.65%	0.410%
390	20.180	20.132	20.219	VV	16089	460878	4.04%	0.293%
391	20.274	20.219	20.318	VV	60898	1433151	12.57%	0.912%
392	20.345	20.318	20.366	VV	26970	533924	4.68%	0.340%
393	20.383	20.366	20.400	VV	18029	340777	2.99%	0.217%
394	20.415	20.400	20.465	VV	18828	556779	4.88%	0.354%
395	20.495	20.465	20.505	VV	9774	215755	1.89%	0.137%
396	20.553	20.505	20.580	VV	11275	470802	4.13%	0.299%
397	20.592	20.580	20.614	VV	10546	198309	1.74%	0.126%
398	20.629	20.614	20.683	VV	9662	364282	3.20%	0.232%
399	20.701	20.683	20.719	VV	8974	177278	1.55%	0.113%
400	20.803	20.719	20.831	VV	12191	657302	5.77%	0.418%
401	20.844	20.831	20.851	VV	8754	100947	0.89%	0.064%
402	20.866	20.851	20.911	VV	9539	284303	2.49%	0.181%
403	20.944	20.911	21.017	VV	10888	527752	4.63%	0.336%
404	21.044	21.017	21.075	VV	8636	254278	2.23%	0.162%

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405	21.104	21.075	21.112	VV	6291	130200	1.14%	0.083%
406	21.169	21.112	21.217	VV	7138	376390	3.30%	0.239%
407	21.250	21.217	21.277	VV	5358	175970	1.54%	0.112%
408	21.320	21.277	21.375	VV	10258	434743	3.81%	0.277%
409	21.411	21.375	21.462	VV	8706	263328	2.31%	0.167%
410	21.523	21.462	21.574	VV	8202	343656	3.01%	0.219%
411	21.618	21.574	21.651	VV	8658	275977	2.42%	0.176%
412	21.719	21.651	21.776	VV	16230	788760	6.92%	0.502%
413	21.800	21.776	21.864	VV	6123	193282	1.70%	0.123%
414	21.888	21.864	21.914	VV	3271	70040	0.61%	0.045%
415	21.938	21.914	21.988	VV	4433	100742	0.88%	0.064%
416	22.037	21.988	22.074	PV	6466	180382	1.58%	0.115%
417	22.116	22.074	22.200	VBA	6996	276752	2.43%	0.176%

Sum of corrected areas: 157211157

FG042425.M Wed Apr 30 02:09:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015768.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:49
Operator : YP\AJ
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.000	2281901	19.381 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

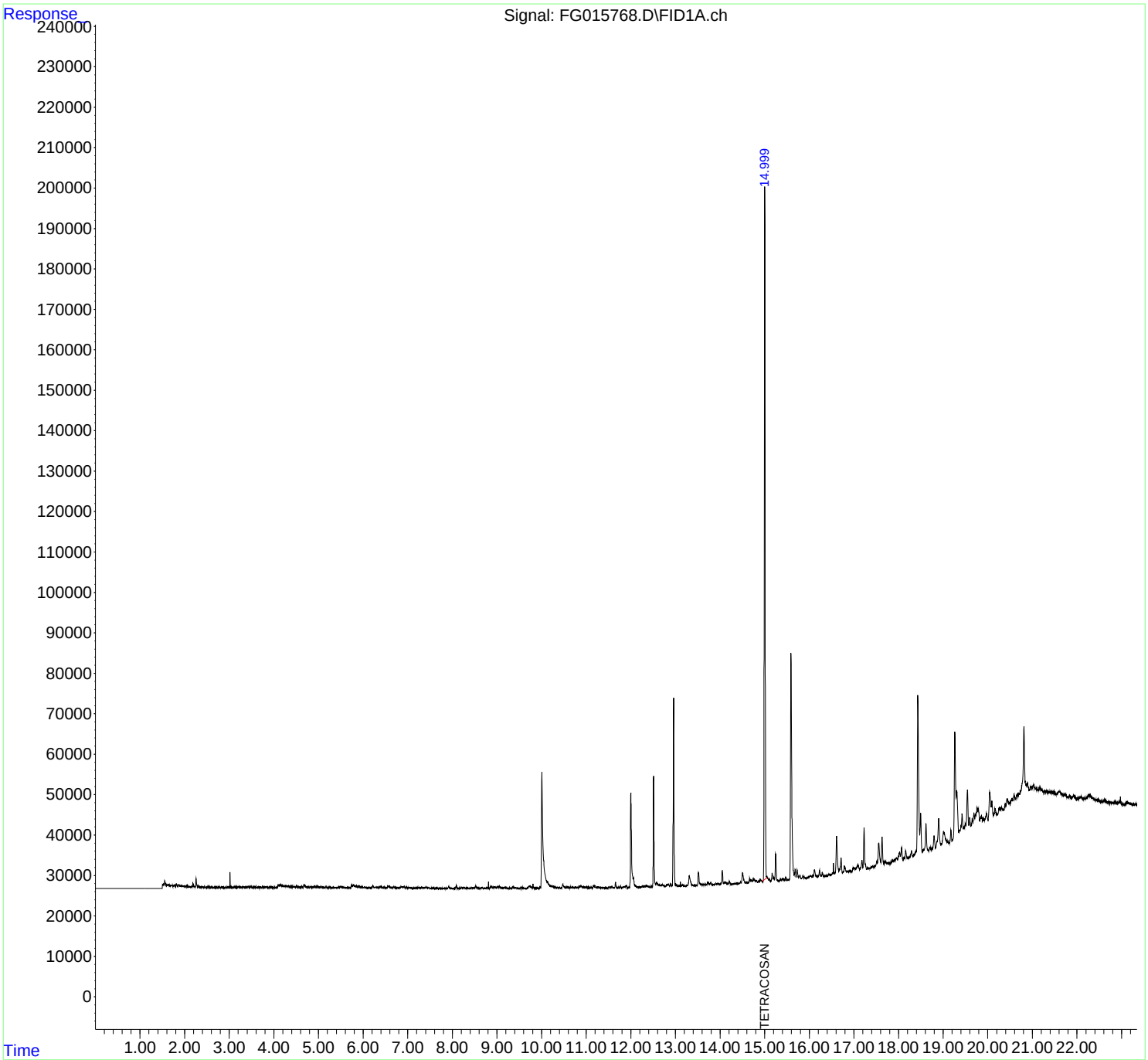
Sample Results: **FG015768.D**

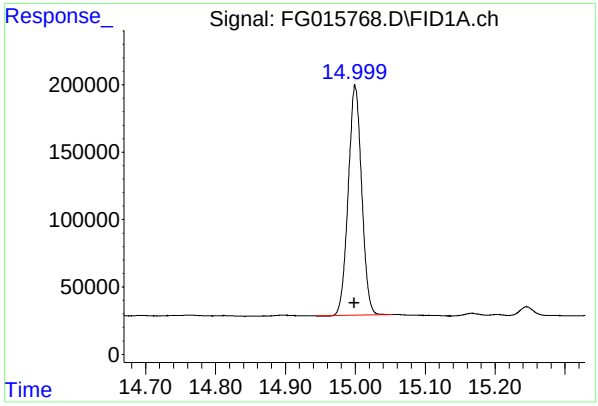
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015768.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:49
Operator : YP\AJ
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.000 min
Delta R.T.: 0.001 mi
Response: 2281901
Conc: 19.38 ug/m

Instrument :
FID_G
ClientSampleId :
B-167-SB02

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015768.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:49
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.934	1.912	2.013	BV	347	2780	0.12%	0.014%
2	2.018	2.013	2.040	VV	106	1258	0.05%	0.006%
3	2.052	2.040	2.091	PV	290	4129	0.18%	0.021%
4	2.099	2.091	2.104	VV	95	396	0.02%	0.002%
5	2.113	2.104	2.128	PV	103	773	0.03%	0.004%
6	2.138	2.128	2.142	VV	106	493	0.02%	0.002%
7	2.147	2.142	2.151	VV	55	323	0.01%	0.002%
8	2.156	2.151	2.164	VV	136	551	0.02%	0.003%
9	2.186	2.164	2.240	VV	888	15195	0.65%	0.076%
10	2.256	2.240	2.290	VV	2127	25684	1.09%	0.129%
11	2.301	2.290	2.322	VV	358	3825	0.16%	0.019%
12	2.330	2.322	2.351	VV	115	1338	0.06%	0.007%
13	2.358	2.351	2.365	VV	137	668	0.03%	0.003%
14	2.370	2.365	2.385	VV	144	1095	0.05%	0.006%
15	2.389	2.385	2.401	VV	135	799	0.03%	0.004%
16	2.406	2.401	2.411	VV	125	587	0.02%	0.003%
17	2.415	2.411	2.432	VV	135	1149	0.05%	0.006%
18	2.438	2.432	2.462	VV	128	1357	0.06%	0.007%
19	2.467	2.462	2.486	VV	91	717	0.03%	0.004%
20	2.499	2.486	2.507	PV	142	1080	0.05%	0.005%
21	2.529	2.507	2.540	VV	220	2267	0.10%	0.011%
22	2.546	2.540	2.565	VV	142	1145	0.05%	0.006%
23	2.573	2.565	2.592	VV	111	910	0.04%	0.005%
24	2.598	2.592	2.604	VV	367	732	0.03%	0.004%
25	2.610	2.604	2.619	VV	152	688	0.03%	0.003%
26	2.629	2.619	2.643	VV	145	1017	0.04%	0.005%
27	2.650	2.643	2.655	VV	120	388	0.02%	0.002%
28	2.667	2.655	2.680	VV	129	1085	0.05%	0.005%
29	2.726	2.680	2.734	VV	167	2794	0.12%	0.014%
30	2.744	2.734	2.757	VV	145	1453	0.06%	0.007%
31	2.766	2.757	2.789	VV	149	2306	0.10%	0.012%
32	2.795	2.789	2.799	VV	119	613	0.03%	0.003%
33	2.805	2.799	2.824	PV	143	1292	0.05%	0.006%
34	2.830	2.824	2.846	VV	156	1185	0.05%	0.006%
35	2.857	2.846	2.886	VV	146	1887	0.08%	0.009%
36	2.892	2.886	2.900	VV	121	668	0.03%	0.003%

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37	2.904	2.900	2.913	VV	146	632	0.03%	0.003%
38	2.922	2.913	2.928	VV	160	995	0.04%	0.005%
39	2.933	2.928	2.943	VV	172	966	0.04%	0.005%
40	2.966	2.943	2.979	VV	201	2804	0.12%	0.014%
41	2.983	2.979	3.003	VV	161	1581	0.07%	0.008%
42	3.016	3.003	3.023	VV	2923	4372	0.19%	0.022%
43	3.040	3.023	3.068	VV	225	4074	0.17%	0.020%
44	3.074	3.068	3.084	VV	206	1314	0.06%	0.007%
45	3.091	3.084	3.124	VV	171	3053	0.13%	0.015%
46	3.127	3.124	3.134	VV	189	700	0.03%	0.004%
47	3.137	3.134	3.141	VV	181	602	0.03%	0.003%
48	3.146	3.141	3.154	VV	173	905	0.04%	0.005%
49	3.172	3.154	3.185	VV	236	2816	0.12%	0.014%
50	3.189	3.185	3.196	VV	173	1028	0.04%	0.005%
51	3.207	3.196	3.218	VV	193	2030	0.09%	0.010%
52	3.221	3.218	3.243	VV	197	2393	0.10%	0.012%
53	3.246	3.243	3.269	VV	201	2377	0.10%	0.012%
54	3.272	3.269	3.281	VV	208	1185	0.05%	0.006%
55	3.286	3.281	3.300	VV	185	1670	0.07%	0.008%
56	3.305	3.300	3.317	VV	196	1513	0.06%	0.008%
57	3.321	3.317	3.339	VV	187	1819	0.08%	0.009%
58	3.353	3.339	3.362	VV	216	2319	0.10%	0.012%
59	3.377	3.362	3.383	VV	191	1896	0.08%	0.010%
60	3.390	3.383	3.397	VV	186	1308	0.06%	0.007%
61	3.402	3.397	3.408	VV	219	1137	0.05%	0.006%
62	3.415	3.408	3.438	VV	268	3742	0.16%	0.019%
63	3.455	3.438	3.476	VV	302	4908	0.21%	0.025%
64	3.481	3.476	3.501	VV	237	2991	0.13%	0.015%
65	3.503	3.501	3.519	VV	215	1918	0.08%	0.010%
66	3.522	3.519	3.526	VV	216	823	0.03%	0.004%
67	3.531	3.526	3.541	VV	212	1529	0.06%	0.008%
68	3.552	3.541	3.570	VV	224	3146	0.13%	0.016%
69	3.589	3.570	3.606	VV	234	3562	0.15%	0.018%
70	3.624	3.606	3.665	VV	242	5914	0.25%	0.030%
71	3.669	3.665	3.673	VV	220	782	0.03%	0.004%
72	3.677	3.673	3.688	VV	189	1355	0.06%	0.007%
73	3.693	3.688	3.711	VV	210	2469	0.10%	0.012%
74	3.729	3.711	3.735	VV	224	2354	0.10%	0.012%
75	3.743	3.735	3.767	VV	210	2908	0.12%	0.015%
76	3.780	3.767	3.793	VV	219	2346	0.10%	0.012%
77	3.826	3.793	3.849	VV	298	7019	0.30%	0.035%
78	3.855	3.849	3.866	VV	187	1638	0.07%	0.008%
79	3.871	3.866	3.893	VV	202	2427	0.10%	0.012%
80	3.897	3.893	3.901	VV	129	547	0.02%	0.003%
81	3.915	3.901	3.923	VV	202	1906	0.08%	0.010%
82	3.927	3.923	3.936	VV	191	1093	0.05%	0.005%
83	3.939	3.936	3.962	VV	191	2168	0.09%	0.011%
84	3.964	3.962	3.969	VV	184	504	0.02%	0.003%
85	3.975	3.969	3.998	VV	185	2179	0.09%	0.011%
86	4.004	3.998	4.009	VV	134	922	0.04%	0.005%
87	4.013	4.009	4.031	VV	193	1875	0.08%	0.009%
88	4.047	4.031	4.062	VV	172	2563	0.11%	0.013%
89	4.111	4.062	4.123	VV	747	17139	0.73%	0.086%

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90	4.134	4.123	4.162	VV	711	15517	0.66%	0.078%
91	4.169	4.162	4.173	VV	654	4092	0.17%	0.021%
92	4.178	4.173	4.213	VV	677	13396	0.57%	0.067%
93	4.223	4.213	4.228	VV	534	4605	0.20%	0.023%
94	4.234	4.228	4.249	VV	554	6218	0.26%	0.031%
95	4.254	4.249	4.264	VV	520	4456	0.19%	0.022%
96	4.271	4.264	4.316	VV	474	13562	0.58%	0.068%
97	4.325	4.316	4.366	VV	539	12672	0.54%	0.064%
98	4.372	4.366	4.394	VV	439	5184	0.22%	0.026%
99	4.399	4.394	4.419	VV	333	4300	0.18%	0.022%
100	4.434	4.419	4.444	VV	348	4304	0.18%	0.022%
101	4.447	4.444	4.482	VV	293	5661	0.24%	0.028%
102	4.506	4.482	4.542	VV	544	12503	0.53%	0.063%
103	4.546	4.542	4.550	VV	292	1114	0.05%	0.006%
104	4.553	4.550	4.567	VV	284	2534	0.11%	0.013%
105	4.579	4.567	4.605	VV	259	5357	0.23%	0.027%
106	4.628	4.605	4.633	VV	402	5239	0.22%	0.026%
107	4.635	4.633	4.652	VV	351	3357	0.14%	0.017%
108	4.679	4.652	4.731	VV	957	22377	0.95%	0.113%
109	4.739	4.731	4.748	VV	287	2579	0.11%	0.013%
110	4.751	4.748	4.754	VV	266	915	0.04%	0.005%
111	4.757	4.754	4.786	VV	280	4447	0.19%	0.022%
112	4.790	4.786	4.796	VV	208	1163	0.05%	0.006%
113	4.808	4.796	4.812	VV	277	2144	0.09%	0.011%
114	4.838	4.812	4.844	VV	306	4723	0.20%	0.024%
115	4.846	4.844	4.857	VV	294	1994	0.08%	0.010%
116	4.880	4.857	4.886	VV	391	5759	0.24%	0.029%
117	4.904	4.886	4.928	VV	427	8650	0.37%	0.044%
118	4.931	4.928	4.935	VV	368	1374	0.06%	0.007%
119	4.938	4.935	5.012	VV	316	13274	0.56%	0.067%
120	5.019	5.012	5.062	VV	249	6639	0.28%	0.033%
121	5.077	5.062	5.085	VV	283	3506	0.15%	0.018%
122	5.092	5.085	5.148	VV	312	7448	0.32%	0.037%
123	5.173	5.148	5.185	VV	345	5445	0.23%	0.027%
124	5.189	5.185	5.197	VV	241	1461	0.06%	0.007%
125	5.203	5.197	5.241	VV	229	4456	0.19%	0.022%
126	5.249	5.241	5.274	VV	206	3085	0.13%	0.016%
127	5.278	5.274	5.283	VV	183	705	0.03%	0.004%
128	5.288	5.283	5.304	VV	177	1635	0.07%	0.008%
129	5.307	5.304	5.314	VV	162	751	0.03%	0.004%
130	5.340	5.314	5.357	VV	216	4251	0.18%	0.021%
131	5.374	5.357	5.385	VV	206	2604	0.11%	0.013%
132	5.395	5.385	5.401	VV	188	1363	0.06%	0.007%
133	5.408	5.401	5.413	VV	175	1086	0.05%	0.005%
134	5.418	5.413	5.424	VV	212	1067	0.05%	0.005%
135	5.486	5.424	5.515	VV	470	15853	0.67%	0.080%
136	5.519	5.515	5.526	VV	342	1829	0.08%	0.009%
137	5.529	5.526	5.543	VV	275	2373	0.10%	0.012%
138	5.550	5.543	5.619	VV	242	8078	0.34%	0.041%
139	5.631	5.619	5.634	VV	159	1102	0.05%	0.006%
140	5.652	5.634	5.667	VV	265	3614	0.15%	0.018%
141	5.677	5.667	5.683	VV	206	1715	0.07%	0.009%

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142	5.686	5.683	5.701	VV	176	1478	0.06%	0.007%
143	5.705	5.701	5.713	VV	202	1004	0.04%	0.005%
144	5.754	5.713	5.831	VV	727	40076	1.70%	0.202%
145	5.833	5.831	5.841	VV	560	3064	0.13%	0.015%
146	5.851	5.841	5.871	VV	562	8870	0.38%	0.045%
147	5.872	5.871	5.903	VV	511	8172	0.35%	0.041%
148	5.913	5.903	5.944	VV	490	9739	0.41%	0.049%
149	5.950	5.944	5.961	VV	359	3239	0.14%	0.016%
150	5.964	5.961	5.969	VV	370	1610	0.07%	0.008%
151	5.974	5.969	5.989	VV	356	3493	0.15%	0.018%
152	5.992	5.989	6.009	VV	316	3161	0.13%	0.016%
153	6.023	6.009	6.075	VV	335	9635	0.41%	0.048%
154	6.079	6.075	6.083	VV	210	781	0.03%	0.004%
155	6.086	6.083	6.092	VV	188	1002	0.04%	0.005%
156	6.096	6.092	6.107	VV	202	1610	0.07%	0.008%
157	6.112	6.107	6.157	VV	252	5040	0.21%	0.025%
158	6.176	6.157	6.193	VV	173	3161	0.13%	0.016%
159	6.219	6.193	6.244	VV	805	12177	0.52%	0.061%
160	6.249	6.244	6.255	VV	314	1959	0.08%	0.010%
161	6.262	6.255	6.270	VV	305	2621	0.11%	0.013%
162	6.283	6.270	6.308	VV	319	6196	0.26%	0.031%
163	6.329	6.308	6.346	VV	344	6042	0.26%	0.030%
164	6.350	6.346	6.359	VV	317	2082	0.09%	0.010%
165	6.366	6.359	6.377	VV	321	3077	0.13%	0.015%
166	6.398	6.377	6.430	VV	651	12097	0.51%	0.061%
167	6.456	6.430	6.476	VV	301	6332	0.27%	0.032%
168	6.480	6.476	6.488	VV	243	1705	0.07%	0.009%
169	6.492	6.488	6.497	VV	248	1295	0.06%	0.007%
170	6.499	6.497	6.511	VV	240	1413	0.06%	0.007%
171	6.520	6.511	6.531	VV	193	1964	0.08%	0.010%
172	6.563	6.531	6.604	VV	539	16590	0.70%	0.083%
173	6.606	6.604	6.627	VV	359	3877	0.16%	0.019%
174	6.639	6.627	6.673	VV	316	7429	0.32%	0.037%
175	6.683	6.673	6.709	VV	363	6554	0.28%	0.033%
176	6.713	6.709	6.732	VV	255	2837	0.12%	0.014%
177	6.741	6.732	6.749	VV	206	1667	0.07%	0.008%
178	6.759	6.749	6.768	VV	197	1826	0.08%	0.009%
179	6.774	6.768	6.781	VV	190	1169	0.05%	0.006%
180	6.785	6.781	6.804	VV	175	2087	0.09%	0.010%
181	6.866	6.804	6.877	VV	380	12247	0.52%	0.062%
182	6.882	6.877	6.893	VV	378	3353	0.14%	0.017%
183	6.898	6.893	6.912	VV	396	4039	0.17%	0.020%
184	6.918	6.912	6.939	VV	391	5563	0.24%	0.028%
185	6.944	6.939	6.951	VV	335	2131	0.09%	0.011%
186	6.964	6.951	7.006	VV	338	9012	0.38%	0.045%
187	7.011	7.006	7.024	VV	220	2020	0.09%	0.010%
188	7.030	7.024	7.104	VV	219	6767	0.29%	0.034%
189	7.111	7.104	7.137	VV	153	2023	0.09%	0.010%
190	7.144	7.137	7.152	VV	136	797	0.03%	0.004%
191	7.156	7.152	7.163	VV	147	752	0.03%	0.004%
192	7.184	7.163	7.221	VV	184	4896	0.21%	0.025%
193	7.224	7.221	7.237	VV	248	1732	0.07%	0.009%
194	7.243	7.237	7.254	VV	237	1945	0.08%	0.010%

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195	7.258	7.254	7.276	VV	271	2890	0.12%	0.015%
196	7.283	7.276	7.292	VV	268	2274	0.10%	0.011%
197	7.296	7.292	7.348	VV	222	6782	0.29%	0.034%
198	7.402	7.348	7.452	VV	400	14611	0.62%	0.073%
199	7.470	7.452	7.511	VV	211	4914	0.21%	0.025%
200	7.532	7.511	7.544	VV	205	2593	0.11%	0.013%
201	7.552	7.544	7.562	VV	177	1365	0.06%	0.007%
202	7.574	7.562	7.609	VV	178	2995	0.13%	0.015%
203	7.638	7.609	7.700	VV	267	5743	0.24%	0.029%
204	7.726	7.700	7.747	VV	107	1946	0.08%	0.010%
205	7.759	7.747	7.777	VV	95	1369	0.06%	0.007%
206	7.782	7.777	7.791	VV	140	591	0.03%	0.003%
207	7.806	7.791	7.852	VV	103	2654	0.11%	0.013%
208	7.869	7.852	7.888	VV	82	1212	0.05%	0.006%
209	7.918	7.888	7.988	VV	676	12302	0.52%	0.062%
210	8.003	7.988	8.031	VV	163	1751	0.07%	0.009%
211	8.090	8.031	8.115	PV	722	14026	0.60%	0.071%
212	8.125	8.115	8.161	VV	146	3344	0.14%	0.017%
213	8.172	8.161	8.194	VV	193	2958	0.13%	0.015%
214	8.214	8.194	8.238	VV	254	5225	0.22%	0.026%
215	8.246	8.238	8.257	VV	213	2250	0.10%	0.011%
216	8.267	8.257	8.327	VV	266	8088	0.34%	0.041%
217	8.340	8.327	8.381	VV	258	5631	0.24%	0.028%
218	8.399	8.381	8.411	VV	164	2298	0.10%	0.012%
219	8.436	8.411	8.469	VV	234	6153	0.26%	0.031%
220	8.522	8.469	8.584	VV	744	20348	0.86%	0.102%
221	8.654	8.584	8.697	VV	294	10403	0.44%	0.052%
222	8.707	8.697	8.731	VV	152	1990	0.08%	0.010%
223	8.770	8.731	8.800	VV	223	6328	0.27%	0.032%
224	8.809	8.800	8.909	VV	1272	19811	0.84%	0.100%
225	8.913	8.909	8.922	VV	350	2275	0.10%	0.011%
226	8.953	8.922	8.992	VV	430	13547	0.58%	0.068%
227	9.018	8.992	9.045	VV	520	12730	0.54%	0.064%
228	9.060	9.045	9.106	VV	474	10753	0.46%	0.054%
229	9.115	9.106	9.126	VV	201	2045	0.09%	0.010%
230	9.176	9.126	9.232	VV	275	10989	0.47%	0.055%
231	9.284	9.232	9.334	VV	215	6729	0.29%	0.034%
232	9.352	9.334	9.374	VV	520	7148	0.30%	0.036%
233	9.395	9.374	9.472	VV	369	10328	0.44%	0.052%
234	9.485	9.472	9.506	VV	103	1462	0.06%	0.007%
235	9.545	9.506	9.618	VV	343	8277	0.35%	0.042%
236	9.628	9.618	9.654	PV	80	1112	0.05%	0.006%
237	9.720	9.654	9.799	VV	643	28218	1.20%	0.142%
238	9.807	9.799	9.841	VV	596	4728	0.20%	0.024%
239	9.861	9.841	9.901	VV	200	4267	0.18%	0.021%
240	9.915	9.901	9.938	VV	125	1545	0.07%	0.008%
241	9.962	9.938	9.982	PV	377	5265	0.22%	0.026%
242	10.008	9.982	10.120	VV	28580	676101	28.72%	3.400%
243	10.130	10.120	10.307	VV	1754	85086	3.61%	0.428%
244	10.314	10.307	10.403	VV	292	11596	0.49%	0.058%
245	10.410	10.403	10.435	VV	141	2453	0.10%	0.012%
246	10.477	10.435	10.546	VV	1121	28138	1.20%	0.142%

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247	10.585	10.546	10.607	VV	307	10211	0.43%	0.051%
248	10.613	10.607	10.630	VV	277	3197	0.14%	0.016%
249	10.652	10.630	10.677	VV	319	6445	0.27%	0.032%
250	10.692	10.677	10.724	VV	449	7242	0.31%	0.036%
251	10.755	10.724	10.794	VV	306	9858	0.42%	0.050%
252	10.801	10.794	10.819	VV	262	2741	0.12%	0.014%
253	10.843	10.819	10.861	VV	515	9096	0.39%	0.046%
254	10.879	10.861	10.919	VV	628	16406	0.70%	0.083%
255	10.944	10.919	10.966	VV	342	8679	0.37%	0.044%
256	10.974	10.966	11.037	VV	337	10879	0.46%	0.055%
257	11.049	11.037	11.087	VV	318	6172	0.26%	0.031%
258	11.111	11.087	11.138	VV	307	6099	0.26%	0.031%
259	11.170	11.138	11.232	VV	746	20801	0.88%	0.105%
260	11.256	11.232	11.289	VV	394	8263	0.35%	0.042%
261	11.315	11.289	11.372	VV	220	7644	0.32%	0.038%
262	11.395	11.372	11.427	VV	212	4654	0.20%	0.023%
263	11.454	11.427	11.487	PV	109	2961	0.13%	0.015%
264	11.511	11.487	11.535	VV	412	6427	0.27%	0.032%
265	11.557	11.535	11.566	VV	396	5414	0.23%	0.027%
266	11.579	11.566	11.609	VV	484	6901	0.29%	0.035%
267	11.659	11.609	11.714	VV	1498	22657	0.96%	0.114%
268	11.738	11.714	11.756	PV	234	3129	0.13%	0.016%
269	11.773	11.756	11.802	VV	478	5365	0.23%	0.027%
270	11.825	11.802	11.841	PV	325	4386	0.19%	0.022%
271	11.861	11.841	11.872	VV	393	6061	0.26%	0.030%
272	11.896	11.872	11.949	VV	650	13807	0.59%	0.069%
273	12.001	11.949	12.054	VV	23374	376611	16.00%	1.894%
274	12.060	12.054	12.201	VV	2500	48964	2.08%	0.246%
275	12.254	12.201	12.290	VV	421	14049	0.60%	0.071%
276	12.311	12.290	12.329	VV	425	7416	0.32%	0.037%
277	12.344	12.329	12.366	VV	524	8925	0.38%	0.045%
278	12.375	12.366	12.437	VV	467	9044	0.38%	0.045%
279	12.459	12.437	12.478	PV	377	5569	0.24%	0.028%
280	12.511	12.478	12.557	VV	27546	316904	13.46%	1.594%
281	12.575	12.557	12.592	VV	1318	20712	0.88%	0.104%
282	12.604	12.592	12.627	VV	901	14586	0.62%	0.073%
283	12.642	12.627	12.680	VV	621	16241	0.69%	0.082%
284	12.708	12.680	12.766	VV	580	20747	0.88%	0.104%
285	12.815	12.766	12.829	VV	637	15693	0.67%	0.079%
286	12.841	12.829	12.869	VV	711	11640	0.49%	0.059%
287	12.895	12.869	12.929	VV	730	15145	0.64%	0.076%
288	12.959	12.929	13.067	VV	46735	588193	24.99%	2.958%
289	13.078	13.067	13.086	VV	190	1621	0.07%	0.008%
290	13.112	13.086	13.129	VV	756	5001	0.21%	0.025%
291	13.152	13.129	13.192	VV	387	8288	0.35%	0.042%
292	13.206	13.192	13.233	VV	158	2871	0.12%	0.014%
293	13.309	13.233	13.435	VV	2575	78695	3.34%	0.396%
294	13.443	13.435	13.450	VV	145	1092	0.05%	0.005%
295	13.461	13.450	13.486	VV	192	2239	0.10%	0.011%
296	13.516	13.486	13.614	PV	3295	65364	2.78%	0.329%
297	13.634	13.614	13.671	VV	358	7761	0.33%	0.039%
298	13.687	13.671	13.701	VV	235	3364	0.14%	0.017%
299	13.721	13.701	13.764	VV	815	19035	0.81%	0.096%

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300	13.790	13.764	13.834	VV	746	15077	0.64%	0.076%
301	13.911	13.834	13.949	VV	384	15434	0.66%	0.078%
302	13.960	13.949	13.987	VV	227	4290	0.18%	0.022%
303	14.050	13.987	14.081	VV	3505	54478	2.31%	0.274%
304	14.096	14.081	14.109	VV	618	8343	0.35%	0.042%
305	14.121	14.109	14.169	VV	685	13985	0.59%	0.070%
306	14.207	14.169	14.231	VV	912	13437	0.57%	0.068%
307	14.244	14.231	14.256	VV	93	1155	0.05%	0.006%
308	14.268	14.256	14.279	VV	66	625	0.03%	0.003%
309	14.317	14.279	14.364	PV	186	5448	0.23%	0.027%
310	14.382	14.364	14.404	VV	85	1211	0.05%	0.006%
311	14.459	14.404	14.472	PV	446	7450	0.32%	0.037%
312	14.503	14.472	14.574	VV	2707	63075	2.68%	0.317%
313	14.602	14.574	14.634	VV	261	5668	0.24%	0.029%
314	14.660	14.634	14.678	VV	1218	16044	0.68%	0.081%
315	14.693	14.678	14.716	VV	818	13246	0.56%	0.067%
316	14.764	14.716	14.796	VV	918	30788	1.31%	0.155%
317	14.813	14.796	14.842	VV	595	9237	0.39%	0.046%
318	14.897	14.842	14.959	VV	842	24942	1.06%	0.125%
319	15.000	14.959	15.139	VV	171209	2354084	100.00%	11.838%
320	15.166	15.139	15.191	VV	1982	31609	1.34%	0.159%
321	15.203	15.191	15.221	VV	1124	13848	0.59%	0.070%
322	15.245	15.221	15.314	VV	6850	99345	4.22%	0.500%
323	15.357	15.314	15.379	PV	585	8395	0.36%	0.042%
324	15.397	15.379	15.446	VV	533	12232	0.52%	0.062%
325	15.472	15.446	15.501	VV	839	11180	0.47%	0.056%
326	15.537	15.501	15.552	VV	137	2720	0.12%	0.014%
327	15.588	15.552	15.661	VV	55724	1055441	44.83%	5.308%
328	15.681	15.661	15.704	VV	2543	41864	1.78%	0.211%
329	15.725	15.704	15.762	VV	2314	43769	1.86%	0.220%
330	15.790	15.762	15.817	VV	969	18299	0.78%	0.092%
331	15.856	15.817	15.887	VV	825	16738	0.71%	0.084%
332	15.894	15.887	15.926	VV	301	3973	0.17%	0.020%
333	16.027	15.926	16.059	VV	580	21719	0.92%	0.109%
334	16.079	16.059	16.091	VV	378	6562	0.28%	0.033%
335	16.116	16.091	16.171	VV	1854	41751	1.77%	0.210%
336	16.193	16.171	16.204	VV	315	5092	0.22%	0.026%
337	16.228	16.204	16.272	VV	1652	29189	1.24%	0.147%
338	16.291	16.272	16.336	VV	1119	17240	0.73%	0.087%
339	16.363	16.336	16.385	VV	161	3174	0.13%	0.016%
340	16.437	16.385	16.476	PV	320	10706	0.45%	0.054%
341	16.525	16.476	16.536	VV	538	11384	0.48%	0.057%
342	16.541	16.536	16.549	VV	2310	5937	0.25%	0.030%
343	16.610	16.549	16.662	VV	9549	197849	8.40%	0.995%
344	16.711	16.662	16.740	VV	3815	78692	3.34%	0.396%
345	16.792	16.740	16.835	VV	1736	39492	1.68%	0.199%
346	16.855	16.835	16.886	VV	444	8765	0.37%	0.044%
347	16.907	16.886	16.931	VV	547	8704	0.37%	0.044%
348	16.998	16.931	17.024	VV	939	31284	1.33%	0.157%
349	17.030	17.024	17.046	VV	695	8311	0.35%	0.042%
350	17.093	17.046	17.128	VV	1320	43808	1.86%	0.220%
351	17.179	17.128	17.199	VV	2383	47606	2.02%	0.239%

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352	17.226	17.199	17.288	VV	10338	164758	7.00%	0.829%
353	17.307	17.288	17.330	PV	304	4328	0.18%	0.022%
354	17.419	17.330	17.440	VV	405	12399	0.53%	0.062%
355	17.512	17.440	17.529	VV	1466	32220	1.37%	0.162%
356	17.556	17.529	17.601	VV	5763	130479	5.54%	0.656%
357	17.630	17.601	17.672	VV	7060	119945	5.10%	0.603%
358	17.690	17.672	17.701	VV	916	11762	0.50%	0.059%
359	17.713	17.701	17.732	VV	772	11465	0.49%	0.058%
360	17.739	17.732	17.802	VV	409	9982	0.42%	0.050%
361	17.810	17.802	17.821	VV	163	1257	0.05%	0.006%
362	17.867	17.821	17.882	PV	637	13610	0.58%	0.068%
363	17.911	17.882	17.923	VV	615	12935	0.55%	0.065%
364	17.958	17.923	17.981	VV	1004	26312	1.12%	0.132%
365	18.024	17.981	18.042	VV	2336	55877	2.37%	0.281%
366	18.068	18.042	18.099	VV	3348	56115	2.38%	0.282%
367	18.160	18.099	18.226	VV	2209	51662	2.19%	0.260%
368	18.291	18.226	18.326	PV	1673	39644	1.68%	0.199%
369	18.389	18.326	18.397	VV	1372	31572	1.34%	0.159%
370	18.431	18.397	18.476	VV	38969	774548	32.90%	3.895%
371	18.495	18.476	18.534	VV	10123	175381	7.45%	0.882%
372	18.555	18.534	18.564	VV	1002	14200	0.60%	0.071%
373	18.615	18.564	18.671	VV	7061	142064	6.03%	0.714%
374	18.698	18.671	18.734	VV	1097	24712	1.05%	0.124%
375	18.795	18.734	18.831	VV	3596	78274	3.33%	0.394%
376	18.899	18.831	18.952	VV	7412	199558	8.48%	1.004%
377	19.016	18.952	19.084	VV	3645	165862	7.05%	0.834%
378	19.106	19.084	19.126	VV	1174	21126	0.90%	0.106%
379	19.134	19.126	19.142	VV	639	5633	0.24%	0.028%
380	19.173	19.142	19.197	VV	3628	60935	2.59%	0.306%
381	19.261	19.197	19.289	VV	27353	563970	23.96%	2.836%
382	19.304	19.289	19.354	VV	12657	306248	13.01%	1.540%
383	19.424	19.354	19.449	VV	6645	214676	9.12%	1.080%
384	19.469	19.449	19.481	VV	3334	59548	2.53%	0.299%
385	19.496	19.481	19.510	VV	3967	63025	2.68%	0.317%
386	19.543	19.510	19.576	VV	12006	278477	11.83%	1.400%
387	19.595	19.576	19.617	VV	4933	94062	4.00%	0.473%
388	19.650	19.617	19.672	VV	4261	121538	5.16%	0.611%
389	19.689	19.672	19.709	VV	5842	110097	4.68%	0.554%
390	19.724	19.709	19.734	VV	5337	76270	3.24%	0.384%
391	19.766	19.734	19.779	VV	6738	163355	6.94%	0.821%
392	19.789	19.779	19.820	VV	6487	129842	5.52%	0.653%
393	19.850	19.820	19.882	VV	4545	147439	6.26%	0.741%
394	19.902	19.882	19.924	VV	3635	85694	3.64%	0.431%
395	19.971	19.924	20.007	VV	4789	189686	8.06%	0.954%
396	20.044	20.007	20.074	VV	9725	276680	11.75%	1.391%
397	20.091	20.074	20.126	VV	7305	172731	7.34%	0.869%
398	20.165	20.126	20.224	VV	5156	239211	10.16%	1.203%
399	20.262	20.224	20.284	VV	5090	160851	6.83%	0.809%
400	20.306	20.284	20.349	VV	5022	177234	7.53%	0.891%
401	20.434	20.349	20.502	VV	6672	492527	20.92%	2.477%
402	20.538	20.502	20.567	VV	6357	226378	9.62%	1.138%
403	20.587	20.567	20.612	VV	7031	171651	7.29%	0.863%
404	20.621	20.612	20.627	VV	6123	54876	2.33%	0.276%

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405	20.657	20.627	20.672	VV	7022	173556	7.37%	0.873%
406	20.707	20.672	20.717	VV	6994	181324	7.70%	0.912%
407	20.810	20.717	20.866	VV	23111	987257	41.94%	4.965%
408	20.889	20.866	20.929	VV	8928	305730	12.99%	1.537%
409	20.972	20.929	20.991	VV	7744	268457	11.40%	1.350%
410	21.025	20.991	21.071	VV	7759	348701	14.81%	1.754%
411	21.080	21.071	21.127	VV	6822	217898	9.26%	1.096%
412	21.168	21.127	21.239	VV	6804	409752	17.41%	2.061%
413	21.249	21.239	21.262	VV	5293	73514	3.12%	0.370%
414	21.286	21.262	21.301	VV	5330	119232	5.06%	0.600%
415	21.307	21.301	21.352	VV	5328	152663	6.49%	0.768%
416	21.363	21.352	21.373	VV	4845	59950	2.55%	0.301%
417	21.384	21.373	21.451	VV	4898	214394	9.11%	1.078%
418	21.471	21.451	21.536	VV	4379	205625	8.73%	1.034%
419	21.611	21.536	21.712	VV	4022	368990	15.67%	1.856%
420	21.725	21.712	21.802	VV	2904	131389	5.58%	0.661%
421	21.836	21.802	21.877	VV	2099	82824	3.52%	0.417%
422	21.923	21.877	21.984	VV	1847	90369	3.84%	0.454%
423	21.992	21.984	22.002	VV	980	9262	0.39%	0.047%
424	22.035	22.002	22.042	VV	829	17828	0.76%	0.090%
425	22.079	22.042	22.162	VV	922	41981	1.78%	0.211%
426	22.170	22.162	22.192	VV	307	2350	0.10%	0.012%

Sum of corrected areas: 19885113

FG042425.M Wed Apr 30 02:09:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015769.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 16:19
Operator : YP\AJ
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
9) S	TETRACOSANE-d50 (SURR...	14.999	1416637	12.032	ug/ml
Target Compounds					

(f)=RT Delta > 1/2 Window (m)=manual int.

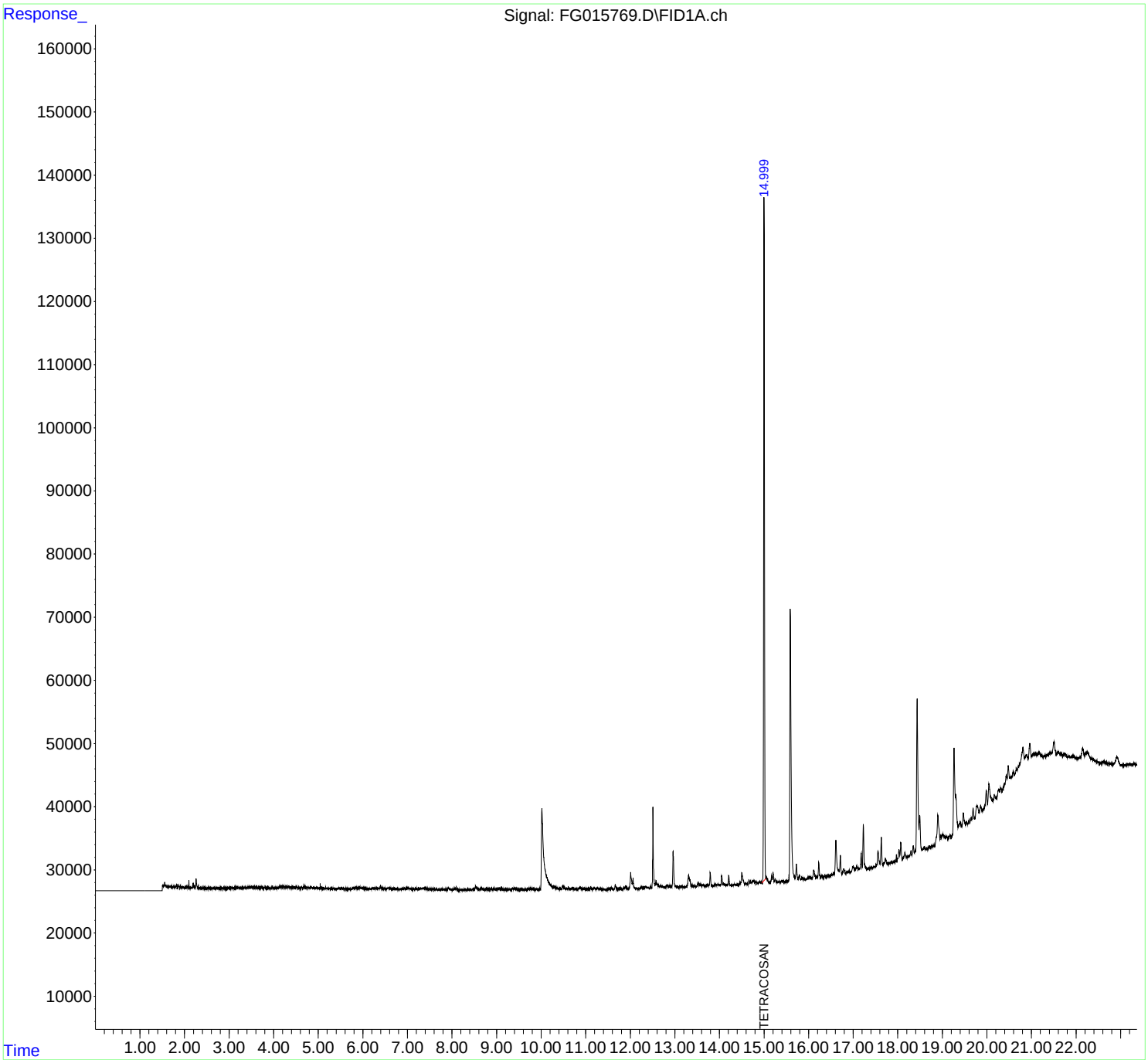
Sample Results: **FG015769.D**

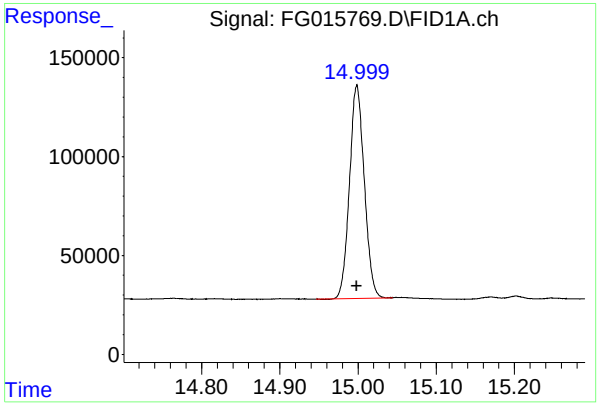
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015769.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 16:19
Operator : YP\AJ
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.999 min
Delta R.T.: 0.000 mi
Response: 1416637
Conc: 12.03 ug/m

Instrument :
FID_G
ClientSampleId :
B-170-SB02

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015769.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 16:19
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.914	1.900	1.925	BV	87	723	0.05%	0.006%
2	1.947	1.925	1.952	PV	144	1125	0.08%	0.009%
3	1.958	1.952	1.984	PV	171	1774	0.12%	0.015%
4	1.987	1.984	2.013	VV	127	1392	0.10%	0.012%
5	2.020	2.013	2.025	VV	93	335	0.02%	0.003%
6	2.046	2.025	2.077	VV	172	3412	0.24%	0.029%
7	2.085	2.077	2.094	VV	123	860	0.06%	0.007%
8	2.095	2.094	2.120	VV	1107	2081	0.14%	0.018%
9	2.125	2.120	2.137	VV	181	939	0.07%	0.008%
10	2.142	2.137	2.152	VV	174	643	0.04%	0.005%
11	2.156	2.152	2.161	VV	70	224	0.02%	0.002%
12	2.189	2.161	2.224	PV	732	11265	0.78%	0.095%
13	2.226	2.224	2.243	VV	424	1963	0.14%	0.017%
14	2.259	2.243	2.287	VV	1457	18126	1.26%	0.153%
15	2.300	2.287	2.321	VV	325	4186	0.29%	0.035%
16	2.326	2.321	2.338	VV	138	865	0.06%	0.007%
17	2.343	2.338	2.350	VV	108	455	0.03%	0.004%
18	2.357	2.350	2.384	VV	113	1620	0.11%	0.014%
19	2.389	2.384	2.397	VV	98	453	0.03%	0.004%
20	2.412	2.397	2.421	PV	115	1086	0.08%	0.009%
21	2.434	2.421	2.444	VV	177	1335	0.09%	0.011%
22	2.452	2.444	2.466	VV	173	1218	0.08%	0.010%
23	2.468	2.466	2.473	VV	140	287	0.02%	0.002%
24	2.488	2.473	2.494	VV	156	1025	0.07%	0.009%
25	2.497	2.494	2.504	VV	145	611	0.04%	0.005%
26	2.512	2.504	2.517	VV	152	750	0.05%	0.006%
27	2.525	2.517	2.565	VV	181	2912	0.20%	0.025%
28	2.582	2.565	2.593	PV	152	1333	0.09%	0.011%
29	2.602	2.593	2.608	VV	145	881	0.06%	0.007%
30	2.611	2.608	2.634	VV	130	1533	0.11%	0.013%
31	2.643	2.634	2.657	VV	148	1256	0.09%	0.011%
32	2.661	2.657	2.692	VV	166	1772	0.12%	0.015%
33	2.715	2.692	2.720	VV	162	1311	0.09%	0.011%
34	2.730	2.720	2.748	VV	153	1425	0.10%	0.012%
35	2.753	2.748	2.761	VV	148	733	0.05%	0.006%
36	2.767	2.761	2.784	VV	131	1380	0.10%	0.012%

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37	2.787	2.784	2.796	VV	151	631	0.04%	0.005%
38	2.799	2.796	2.812	VV	185	847	0.06%	0.007%
39	2.820	2.812	2.827	VV	135	954	0.07%	0.008%
40	2.833	2.827	2.839	VV	139	717	0.05%	0.006%
41	2.853	2.839	2.862	VV	135	1225	0.08%	0.010%
42	2.879	2.862	2.884	VV	153	1032	0.07%	0.009%
43	2.891	2.884	2.905	VV	129	1000	0.07%	0.008%
44	2.919	2.905	2.942	VV	163	2058	0.14%	0.017%
45	2.946	2.942	2.959	VV	92	792	0.05%	0.007%
46	2.967	2.959	2.973	VV	149	957	0.07%	0.008%
47	2.975	2.973	2.988	VV	156	938	0.07%	0.008%
48	2.993	2.988	3.013	VV	155	1225	0.08%	0.010%
49	3.017	3.013	3.020	VV	116	435	0.03%	0.004%
50	3.033	3.020	3.044	VV	234	2028	0.14%	0.017%
51	3.047	3.044	3.051	VV	160	579	0.04%	0.005%
52	3.059	3.051	3.080	VV	179	2599	0.18%	0.022%
53	3.085	3.080	3.091	VV	167	946	0.07%	0.008%
54	3.099	3.091	3.114	VV	177	1933	0.13%	0.016%
55	3.117	3.114	3.124	VV	163	797	0.06%	0.007%
56	3.126	3.124	3.131	VV	227	639	0.04%	0.005%
57	3.140	3.131	3.147	VV	235	1453	0.10%	0.012%
58	3.154	3.147	3.170	VV	136	1909	0.13%	0.016%
59	3.188	3.170	3.206	VV	197	3515	0.24%	0.030%
60	3.207	3.206	3.212	VV	185	538	0.04%	0.005%
61	3.218	3.212	3.230	VV	174	1456	0.10%	0.012%
62	3.234	3.230	3.244	VV	170	1178	0.08%	0.010%
63	3.252	3.244	3.280	VV	213	3264	0.23%	0.027%
64	3.288	3.280	3.313	VV	168	2594	0.18%	0.022%
65	3.314	3.313	3.321	VV	199	649	0.05%	0.005%
66	3.330	3.321	3.340	VV	266	1831	0.13%	0.015%
67	3.351	3.340	3.357	VV	243	1663	0.12%	0.014%
68	3.362	3.357	3.371	VV	156	1110	0.08%	0.009%
69	3.377	3.371	3.391	VV	168	1649	0.11%	0.014%
70	3.399	3.391	3.413	VV	194	1781	0.12%	0.015%
71	3.424	3.413	3.435	VV	192	1940	0.13%	0.016%
72	3.447	3.435	3.453	VV	171	1511	0.10%	0.013%
73	3.469	3.453	3.475	VV	232	2267	0.16%	0.019%
74	3.482	3.475	3.495	VV	220	1925	0.13%	0.016%
75	3.504	3.495	3.517	VV	249	2164	0.15%	0.018%
76	3.523	3.517	3.528	VV	183	939	0.07%	0.008%
77	3.551	3.528	3.583	VV	241	6157	0.43%	0.052%
78	3.588	3.583	3.596	VV	253	1296	0.09%	0.011%
79	3.602	3.596	3.614	VV	208	1839	0.13%	0.015%
80	3.618	3.614	3.623	VV	201	807	0.06%	0.007%
81	3.627	3.623	3.667	VV	234	4170	0.29%	0.035%
82	3.668	3.667	3.683	VV	206	1407	0.10%	0.012%
83	3.687	3.683	3.705	VV	166	1577	0.11%	0.013%
84	3.715	3.705	3.741	VV	187	2498	0.17%	0.021%
85	3.765	3.741	3.776	VV	162	2105	0.15%	0.018%
86	3.780	3.776	3.787	PV	67	336	0.02%	0.003%
87	3.791	3.787	3.798	VV	112	737	0.05%	0.006%
88	3.808	3.798	3.831	VV	133	1743	0.12%	0.015%
89	3.835	3.831	3.842	VV	75	260	0.02%	0.002%

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90	3.869	3.842	3.877	PV	395	1282	0.09%	0.011%
91	3.881	3.877	3.906	VB	135	1028	0.07%	0.009%
92	3.923	3.910	3.927	BV	90	595	0.04%	0.005%
93	3.932	3.927	3.940	PV	95	463	0.03%	0.004%
94	3.964	3.940	3.979	VV	425	2464	0.17%	0.021%
95	3.981	3.979	4.004	VV	137	1445	0.10%	0.012%
96	4.008	4.004	4.020	VV	122	915	0.06%	0.008%
97	4.024	4.020	4.034	VV	176	992	0.07%	0.008%
98	4.042	4.034	4.053	VV	178	1044	0.07%	0.009%
99	4.056	4.053	4.071	VV	148	1056	0.07%	0.009%
100	4.073	4.071	4.089	VV	110	767	0.05%	0.006%
101	4.121	4.089	4.140	VV	322	5872	0.41%	0.049%
102	4.152	4.140	4.164	VV	379	4380	0.30%	0.037%
103	4.178	4.164	4.213	VV	369	8666	0.60%	0.073%
104	4.222	4.213	4.226	VV	369	2153	0.15%	0.018%
105	4.237	4.226	4.245	VV	348	3141	0.22%	0.026%
106	4.257	4.245	4.267	VV	354	3809	0.26%	0.032%
107	4.274	4.267	4.308	VV	324	6501	0.45%	0.055%
108	4.338	4.308	4.374	VV	361	10108	0.70%	0.085%
109	4.377	4.374	4.383	VV	214	1141	0.08%	0.010%
110	4.392	4.383	4.405	VV	315	2907	0.20%	0.024%
111	4.409	4.405	4.443	VV	270	4384	0.30%	0.037%
112	4.446	4.443	4.462	VV	278	2406	0.17%	0.020%
113	4.465	4.462	4.493	VV	202	3489	0.24%	0.029%
114	4.506	4.493	4.510	VV	353	2872	0.20%	0.024%
115	4.514	4.510	4.530	VV	338	3004	0.21%	0.025%
116	4.533	4.530	4.542	VV	224	1424	0.10%	0.012%
117	4.549	4.542	4.566	VV	230	2804	0.19%	0.024%
118	4.574	4.566	4.593	VV	260	2652	0.18%	0.022%
119	4.597	4.593	4.604	VV	169	928	0.06%	0.008%
120	4.608	4.604	4.612	VV	176	647	0.04%	0.005%
121	4.625	4.612	4.656	VV	260	5062	0.35%	0.043%
122	4.679	4.656	4.710	VV	451	9351	0.65%	0.079%
123	4.713	4.710	4.719	VV	233	1060	0.07%	0.009%
124	4.724	4.719	4.731	VV	241	1522	0.11%	0.013%
125	4.741	4.731	4.759	VV	226	3282	0.23%	0.028%
126	4.768	4.759	4.792	VV	301	4286	0.30%	0.036%
127	4.798	4.792	4.805	VV	202	1371	0.09%	0.012%
128	4.813	4.805	4.828	VV	210	2609	0.18%	0.022%
129	4.840	4.828	4.847	VV	237	2356	0.16%	0.020%
130	4.851	4.847	4.872	VV	226	2866	0.20%	0.024%
131	4.874	4.872	4.893	VV	202	2008	0.14%	0.017%
132	4.907	4.893	4.912	VV	233	1867	0.13%	0.016%
133	4.917	4.912	4.934	VV	203	2379	0.16%	0.020%
134	4.939	4.934	4.961	VV	221	3073	0.21%	0.026%
135	4.965	4.961	4.972	VV	183	1201	0.08%	0.010%
136	4.974	4.972	4.993	VV	206	2100	0.15%	0.018%
137	4.996	4.993	5.006	VV	163	1342	0.09%	0.011%
138	5.010	5.006	5.031	VV	183	2524	0.17%	0.021%
139	5.042	5.031	5.053	VV	739	2731	0.19%	0.023%
140	5.059	5.053	5.065	VV	214	966	0.07%	0.008%
141	5.071	5.065	5.075	VV	170	660	0.05%	0.006%

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142	5.085	5.075	5.102	VV	182	2118	0.15%	0.018%
143	5.110	5.102	5.118	VV	195	1369	0.09%	0.012%
144	5.129	5.118	5.151	VV	157	2333	0.16%	0.020%
145	5.167	5.151	5.185	VV	250	3320	0.23%	0.028%
146	5.188	5.185	5.197	VV	188	890	0.06%	0.007%
147	5.200	5.197	5.212	VV	165	957	0.07%	0.008%
148	5.219	5.212	5.234	VV	178	1507	0.10%	0.013%
149	5.241	5.234	5.262	VV	133	1451	0.10%	0.012%
150	5.266	5.262	5.282	VV	96	853	0.06%	0.007%
151	5.295	5.282	5.319	VV	135	1598	0.11%	0.013%
152	5.322	5.319	5.349	VV	161	1350	0.09%	0.011%
153	5.353	5.349	5.375	VV	128	1127	0.08%	0.009%
154	5.406	5.375	5.419	VV	143	2156	0.15%	0.018%
155	5.423	5.419	5.445	VV	112	1340	0.09%	0.011%
156	5.451	5.445	5.467	VV	167	1326	0.09%	0.011%
157	5.478	5.467	5.491	VV	181	2048	0.14%	0.017%
158	5.495	5.491	5.504	VV	166	1264	0.09%	0.011%
159	5.510	5.504	5.529	VV	208	2099	0.15%	0.018%
160	5.531	5.529	5.548	VV	162	1465	0.10%	0.012%
161	5.552	5.548	5.565	VV	182	1242	0.09%	0.010%
162	5.581	5.565	5.597	VV	160	2066	0.14%	0.017%
163	5.605	5.597	5.634	VV	114	1569	0.11%	0.013%
164	5.645	5.634	5.654	VV	89	870	0.06%	0.007%
165	5.658	5.654	5.662	VV	142	402	0.03%	0.003%
166	5.670	5.662	5.690	VV	133	1485	0.10%	0.013%
167	5.694	5.690	5.698	VV	80	353	0.02%	0.003%
168	5.703	5.698	5.709	VV	117	530	0.04%	0.004%
169	5.713	5.709	5.721	VV	96	338	0.02%	0.003%
170	5.727	5.721	5.733	VV	103	328	0.02%	0.003%
171	5.740	5.733	5.745	PV	80	415	0.03%	0.003%
172	5.751	5.745	5.762	VV	105	777	0.05%	0.007%
173	5.768	5.762	5.772	VV	147	736	0.05%	0.006%
174	5.782	5.772	5.787	VV	392	1541	0.11%	0.013%
175	5.793	5.787	5.802	VV	251	1698	0.12%	0.014%
176	5.819	5.802	5.830	VV	246	3660	0.25%	0.031%
177	5.840	5.830	5.844	VV	302	2032	0.14%	0.017%
178	5.849	5.844	5.856	VV	290	1773	0.12%	0.015%
179	5.864	5.856	5.874	VV	232	2328	0.16%	0.020%
180	5.925	5.874	5.945	VV	340	10763	0.75%	0.091%
181	5.952	5.945	5.991	VV	262	5495	0.38%	0.046%
182	6.003	5.991	6.029	VV	232	4315	0.30%	0.036%
183	6.032	6.029	6.079	VV	162	3827	0.27%	0.032%
184	6.085	6.079	6.106	VV	166	2074	0.14%	0.017%
185	6.114	6.106	6.126	VV	175	1683	0.12%	0.014%
186	6.132	6.126	6.178	VV	138	3090	0.21%	0.026%
187	6.186	6.178	6.206	VV	180	1860	0.13%	0.016%
188	6.221	6.206	6.239	VV	290	4157	0.29%	0.035%
189	6.251	6.239	6.260	VV	192	2130	0.15%	0.018%
190	6.267	6.260	6.302	VV	266	4894	0.34%	0.041%
191	6.334	6.302	6.351	VV	228	5537	0.38%	0.047%
192	6.398	6.351	6.444	VV	689	16478	1.14%	0.139%
193	6.451	6.444	6.483	VV	254	4348	0.30%	0.037%
194	6.489	6.483	6.534	VV	184	4367	0.30%	0.037%

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195	6.570	6.534	6.624	VV	299	10441	0.72%	0.088%
196	6.629	6.624	6.674	VV	231	5179	0.36%	0.044%
197	6.688	6.674	6.733	VV	268	5887	0.41%	0.050%
198	6.757	6.733	6.865	VV	189	9465	0.66%	0.080%
199	6.876	6.865	6.889	VV	178	1921	0.13%	0.016%
200	6.914	6.889	6.922	VV	279	3573	0.25%	0.030%
201	6.934	6.922	6.953	VV	247	3310	0.23%	0.028%
202	6.972	6.953	7.009	VV	296	7516	0.52%	0.063%
203	7.018	7.009	7.064	VV	272	6371	0.44%	0.054%
204	7.071	7.064	7.124	VV	153	4283	0.30%	0.036%
205	7.143	7.124	7.194	VV	146	4985	0.35%	0.042%
206	7.201	7.194	7.242	VV	218	4521	0.31%	0.038%
207	7.272	7.242	7.281	VV	219	4379	0.30%	0.037%
208	7.306	7.281	7.368	VV	243	10751	0.75%	0.090%
209	7.405	7.368	7.452	VV	299	10517	0.73%	0.089%
210	7.466	7.452	7.501	VV	144	3900	0.27%	0.033%
211	7.508	7.501	7.531	VV	115	1901	0.13%	0.016%
212	7.537	7.531	7.561	VV	130	1671	0.12%	0.014%
213	7.582	7.561	7.606	VV	194	3009	0.21%	0.025%
214	7.613	7.606	7.624	VV	70	831	0.06%	0.007%
215	7.642	7.624	7.699	VV	186	4453	0.31%	0.037%
216	7.706	7.699	7.716	VV	79	605	0.04%	0.005%
217	7.723	7.716	7.735	VV	114	717	0.05%	0.006%
218	7.763	7.735	7.774	VV	126	1563	0.11%	0.013%
219	7.790	7.774	7.821	VV	130	2353	0.16%	0.020%
220	7.827	7.821	7.851	VV	80	991	0.07%	0.008%
221	7.860	7.851	7.881	VV	72	1241	0.09%	0.010%
222	7.919	7.881	7.936	VV	406	6274	0.43%	0.053%
223	7.949	7.936	7.972	VV	217	3355	0.23%	0.028%
224	7.980	7.972	8.004	VV	148	1589	0.11%	0.013%
225	8.009	8.004	8.022	VV	96	742	0.05%	0.006%
226	8.062	8.022	8.081	VV	304	5868	0.41%	0.049%
227	8.091	8.081	8.151	VV	411	6447	0.45%	0.054%
228	8.164	8.151	8.187	PV	123	1258	0.09%	0.011%
229	8.216	8.187	8.232	VV	106	1804	0.13%	0.015%
230	8.242	8.232	8.253	VV	97	921	0.06%	0.008%
231	8.282	8.253	8.299	VV	128	2596	0.18%	0.022%
232	8.309	8.299	8.318	VV	121	936	0.06%	0.008%
233	8.341	8.318	8.375	VV	153	3199	0.22%	0.027%
234	8.387	8.375	8.397	VV	91	951	0.07%	0.008%
235	8.413	8.397	8.447	VV	150	2884	0.20%	0.024%
236	8.489	8.447	8.504	VV	205	4583	0.32%	0.039%
237	8.528	8.504	8.609	VV	513	17279	1.20%	0.145%
238	8.658	8.609	8.708	VV	375	11970	0.83%	0.101%
239	8.714	8.708	8.737	VV	132	1953	0.14%	0.016%
240	8.759	8.737	8.774	VV	152	3028	0.21%	0.025%
241	8.788	8.774	8.811	VV	155	2820	0.20%	0.024%
242	8.817	8.811	8.834	VV	138	1332	0.09%	0.011%
243	8.879	8.834	8.917	VV	389	8150	0.56%	0.069%
244	8.951	8.917	9.002	VV	221	7255	0.50%	0.061%
245	9.025	9.002	9.044	VV	209	4744	0.33%	0.040%
246	9.061	9.044	9.097	VV	319	6476	0.45%	0.055%

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247	9.106	9.097	9.151	VV	441	3316	0.23%	0.028%
248	9.178	9.151	9.207	VV	156	3331	0.23%	0.028%
249	9.216	9.207	9.236	VV	126	1755	0.12%	0.015%
250	9.255	9.236	9.263	VV	158	1994	0.14%	0.017%
251	9.271	9.263	9.307	VV	142	2653	0.18%	0.022%
252	9.315	9.307	9.337	VV	99	1287	0.09%	0.011%
253	9.354	9.337	9.379	VV	338	5756	0.40%	0.048%
254	9.396	9.379	9.418	VV	346	5602	0.39%	0.047%
255	9.437	9.418	9.479	VV	194	4669	0.32%	0.039%
256	9.486	9.479	9.511	VV	119	1318	0.09%	0.011%
257	9.542	9.511	9.571	VV	198	4623	0.32%	0.039%
258	9.581	9.571	9.604	VV	119	1387	0.10%	0.012%
259	9.620	9.604	9.640	VV	67	846	0.06%	0.007%
260	9.658	9.640	9.672	VV	127	1128	0.08%	0.009%
261	9.683	9.672	9.707	VV	163	1861	0.13%	0.016%
262	9.736	9.707	9.756	VV	290	6091	0.42%	0.051%
263	9.770	9.756	9.798	VV	268	4870	0.34%	0.041%
264	9.806	9.798	9.835	VV	175	3093	0.21%	0.026%
265	9.863	9.835	9.870	VV	177	2365	0.16%	0.020%
266	9.889	9.870	9.937	VV	191	4488	0.31%	0.038%
267	9.965	9.937	9.982	PV	350	3983	0.28%	0.034%
268	10.019	9.982	10.436	VV	12809	559539	38.78%	4.710%
269	10.482	10.436	10.585	VV	649	27055	1.88%	0.228%
270	10.598	10.585	10.639	VV	236	6478	0.45%	0.055%
271	10.652	10.639	10.679	VV	215	4380	0.30%	0.037%
272	10.697	10.679	10.755	VV	317	7766	0.54%	0.065%
273	10.769	10.755	10.779	VV	155	1891	0.13%	0.016%
274	10.791	10.779	10.827	VV	175	3551	0.25%	0.030%
275	10.852	10.827	10.862	VV	319	4827	0.33%	0.041%
276	10.884	10.862	10.924	VV	355	9369	0.65%	0.079%
277	10.946	10.924	10.967	VV	257	4622	0.32%	0.039%
278	10.993	10.967	11.022	VV	217	5076	0.35%	0.043%
279	11.029	11.022	11.039	VV	143	1098	0.08%	0.009%
280	11.065	11.039	11.084	VV	128	2590	0.18%	0.022%
281	11.111	11.084	11.138	VV	235	5678	0.39%	0.048%
282	11.150	11.138	11.158	VV	141	1520	0.11%	0.013%
283	11.191	11.158	11.235	VV	375	11204	0.78%	0.094%
284	11.254	11.235	11.305	VV	340	8725	0.60%	0.073%
285	11.314	11.305	11.381	VV	156	5555	0.38%	0.047%
286	11.391	11.381	11.402	VV	115	1282	0.09%	0.011%
287	11.409	11.402	11.441	VV	111	1218	0.08%	0.010%
288	11.520	11.441	11.546	PV	157	4667	0.32%	0.039%
289	11.579	11.546	11.618	VV	237	6303	0.44%	0.053%
290	11.662	11.618	11.712	VV	772	14555	1.01%	0.123%
291	11.740	11.712	11.758	VV	288	3980	0.28%	0.033%
292	11.777	11.758	11.802	VV	223	3426	0.24%	0.029%
293	11.809	11.802	11.834	VV	54	669	0.05%	0.006%
294	11.867	11.834	11.882	PV	320	6199	0.43%	0.052%
295	11.897	11.882	11.951	VV	626	11554	0.80%	0.097%
296	12.008	11.951	12.044	VV	2628	56894	3.94%	0.479%
297	12.062	12.044	12.209	VV	1784	33755	2.34%	0.284%
298	12.251	12.209	12.277	VV	262	6887	0.48%	0.058%
299	12.304	12.277	12.318	VV	230	4185	0.29%	0.035%

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300	12.344	12.318	12.370	VV	399	8037	0.56%	0.068%
301	12.380	12.370	12.391	VV	225	2332	0.16%	0.020%
302	12.403	12.391	12.435	VV	227	3409	0.24%	0.029%
303	12.456	12.435	12.476	PV	440	5055	0.35%	0.043%
304	12.509	12.476	12.554	VV	12918	152462	10.57%	1.283%
305	12.575	12.554	12.592	VV	1270	18815	1.30%	0.158%
306	12.603	12.592	12.631	VV	775	12784	0.89%	0.108%
307	12.633	12.631	12.687	VV	492	11335	0.79%	0.095%
308	12.699	12.687	12.781	VV	386	12459	0.86%	0.105%
309	12.818	12.781	12.874	VV	510	14456	1.00%	0.122%
310	12.892	12.874	12.917	VV	368	6511	0.45%	0.055%
311	12.960	12.917	13.082	VV	5740	97804	6.78%	0.823%
312	13.148	13.082	13.194	VV	228	8623	0.60%	0.073%
313	13.205	13.194	13.240	PV	134	2053	0.14%	0.017%
314	13.306	13.240	13.384	VV	1899	61058	4.23%	0.514%
315	13.397	13.384	13.446	VV	249	7211	0.50%	0.061%
316	13.453	13.446	13.485	VV	174	2831	0.20%	0.024%
317	13.517	13.485	13.547	VV	635	13276	0.92%	0.112%
318	13.566	13.547	13.612	VV	369	10102	0.70%	0.085%
319	13.635	13.612	13.682	VV	266	8033	0.56%	0.068%
320	13.689	13.682	13.701	VV	144	1345	0.09%	0.011%
321	13.727	13.701	13.759	VV	280	6772	0.47%	0.057%
322	13.792	13.759	13.851	VV	2104	32293	2.24%	0.272%
323	13.915	13.851	13.939	VV	381	10533	0.73%	0.089%
324	13.963	13.939	13.997	VV	393	8233	0.57%	0.069%
325	14.050	13.997	14.077	VV	1593	26221	1.82%	0.221%
326	14.094	14.077	14.137	VV	417	8594	0.60%	0.072%
327	14.144	14.137	14.182	VV	185	3505	0.24%	0.030%
328	14.207	14.182	14.266	VV	1616	23423	1.62%	0.197%
329	14.338	14.266	14.349	PV	192	4627	0.32%	0.039%
330	14.364	14.349	14.377	VV	144	1845	0.13%	0.016%
331	14.388	14.377	14.413	VV	121	1527	0.11%	0.013%
332	14.458	14.413	14.471	VV	350	5551	0.38%	0.047%
333	14.501	14.471	14.578	VV	1891	49275	3.42%	0.415%
334	14.601	14.578	14.635	VV	154	3701	0.26%	0.031%
335	14.661	14.635	14.681	VV	754	10478	0.73%	0.088%
336	14.700	14.681	14.722	VV	421	7988	0.55%	0.067%
337	14.764	14.722	14.797	VV	662	17832	1.24%	0.150%
338	14.817	14.797	14.844	VV	394	7615	0.53%	0.064%
339	14.869	14.844	14.879	VV	191	2891	0.20%	0.024%
340	14.901	14.879	14.957	VV	391	10496	0.73%	0.088%
341	14.999	14.957	15.044	VV	108459	1442783	100.00%	12.144%
342	15.054	15.044	15.136	VV	955	22983	1.59%	0.193%
343	15.170	15.136	15.184	VV	1136	16343	1.13%	0.138%
344	15.202	15.184	15.234	VV	1627	23033	1.60%	0.194%
345	15.249	15.234	15.314	VV	581	10767	0.75%	0.091%
346	15.324	15.314	15.369	VV	136	2665	0.18%	0.022%
347	15.399	15.369	15.444	VV	307	5738	0.40%	0.048%
348	15.454	15.444	15.470	VV	130	1152	0.08%	0.010%
349	15.489	15.470	15.498	VV	134	1170	0.08%	0.010%
350	15.534	15.498	15.548	PV	185	3385	0.23%	0.028%
351	15.587	15.548	15.701	VV	43056	861979	59.74%	7.255%

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352	15.724	15.701	15.764	VV	2683	45080	3.12%	0.379%
353	15.791	15.764	15.827	VV	892	17001	1.18%	0.143%
354	15.856	15.827	15.927	VV	412	12384	0.86%	0.104%
355	16.016	15.927	16.061	VV	391	15138	1.05%	0.127%
356	16.114	16.061	16.174	VV	1377	35104	2.43%	0.295%
357	16.189	16.174	16.198	VV	194	2601	0.18%	0.022%
358	16.227	16.198	16.271	VV	2421	37282	2.58%	0.314%
359	16.291	16.271	16.316	VV	265	4158	0.29%	0.035%
360	16.366	16.316	16.394	PV	295	4882	0.34%	0.041%
361	16.437	16.394	16.450	VV	194	4170	0.29%	0.035%
362	16.461	16.450	16.485	VV	146	1706	0.12%	0.014%
363	16.610	16.485	16.687	VV	5556	142301	9.86%	1.198%
364	16.711	16.687	16.741	VV	2991	42508	2.95%	0.358%
365	16.791	16.741	16.831	VV	731	17019	1.18%	0.143%
366	16.863	16.831	16.884	VV	257	4953	0.34%	0.042%
367	16.909	16.884	16.949	VV	505	7571	0.52%	0.064%
368	16.994	16.949	17.042	PV	904	28843	2.00%	0.243%
369	17.074	17.042	17.119	VV	752	23535	1.63%	0.198%
370	17.179	17.119	17.200	VV	2747	48236	3.34%	0.406%
371	17.227	17.200	17.326	VV	7082	120550	8.36%	1.015%
372	17.334	17.326	17.353	VV	143	1249	0.09%	0.011%
373	17.418	17.353	17.439	PV	146	4011	0.28%	0.034%
374	17.474	17.439	17.490	PV	174	3468	0.24%	0.029%
375	17.513	17.490	17.524	VV	310	4635	0.32%	0.039%
376	17.554	17.524	17.601	VV	2422	55499	3.85%	0.467%
377	17.630	17.601	17.664	VV	4485	64562	4.47%	0.543%
378	17.727	17.664	17.797	VV	886	23632	1.64%	0.199%
379	17.856	17.797	17.879	PV	147	2832	0.20%	0.024%
380	17.901	17.879	17.925	VV	109	1803	0.12%	0.015%
381	18.025	17.925	18.046	PV	1690	36637	2.54%	0.308%
382	18.068	18.046	18.097	VV	2782	41714	2.89%	0.351%
383	18.158	18.097	18.224	VV	987	23788	1.65%	0.200%
384	18.295	18.224	18.317	PV	813	15928	1.10%	0.134%
385	18.345	18.317	18.372	VV	1457	24948	1.73%	0.210%
386	18.387	18.372	18.399	VV	673	7930	0.55%	0.067%
387	18.433	18.399	18.475	VV	24461	492805	34.16%	4.148%
388	18.493	18.475	18.564	VV	5860	110426	7.65%	0.929%
389	18.593	18.564	18.620	VV	603	11797	0.82%	0.099%
390	18.635	18.620	18.656	VV	140	1987	0.14%	0.017%
391	18.706	18.656	18.734	PV	388	4063	0.28%	0.034%
392	18.757	18.734	18.772	VV	120	2179	0.15%	0.018%
393	18.898	18.772	18.949	VV	4543	136557	9.46%	1.149%
394	18.966	18.949	18.977	VV	1065	14865	1.03%	0.125%
395	19.009	18.977	19.080	VV	1192	50361	3.49%	0.424%
396	19.092	19.080	19.124	VV	585	10183	0.71%	0.086%
397	19.171	19.124	19.204	VV	385	9913	0.69%	0.083%
398	19.261	19.204	19.294	PV	13934	299507	20.76%	2.521%
399	19.302	19.294	19.351	VV	6361	123611	8.57%	1.040%
400	19.400	19.351	19.421	VV	1628	54726	3.79%	0.461%
401	19.470	19.421	19.521	VV	2770	85220	5.91%	0.717%
402	19.541	19.521	19.571	VV	997	24420	1.69%	0.206%
403	19.596	19.571	19.614	VV	999	19227	1.33%	0.162%
404	19.643	19.614	19.661	VV	1242	25635	1.78%	0.216%

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405	19.689	19.661	19.729	VV	2598	57730	4.00%	0.486%
406	19.781	19.729	19.824	VV	2592	106388	7.37%	0.895%
407	19.858	19.824	19.902	VV	2123	77531	5.37%	0.653%
408	19.985	19.902	20.012	VV	4096	144609	10.02%	1.217%
409	20.046	20.012	20.131	VV	4828	210323	14.58%	1.770%
410	20.165	20.131	20.205	VV	2681	95090	6.59%	0.800%
411	20.264	20.205	20.284	VV	3162	116804	8.10%	0.983%
412	20.305	20.284	20.342	VV	3146	98033	6.79%	0.825%
413	20.433	20.342	20.451	VV	4618	221844	15.38%	1.867%
414	20.478	20.451	20.507	VV	5907	160812	11.15%	1.354%
415	20.537	20.507	20.550	VV	3942	99743	6.91%	0.840%
416	20.589	20.550	20.624	VV	4596	179217	12.42%	1.508%
417	20.660	20.624	20.679	VV	4574	141374	9.80%	1.190%
418	20.811	20.679	20.844	VV	7359	556548	38.57%	4.684%
419	20.891	20.844	20.924	VV	5838	269375	18.67%	2.267%
420	20.961	20.924	21.000	VV	7246	279398	19.37%	2.352%
421	21.047	21.000	21.056	VV	5456	175866	12.19%	1.480%
422	21.078	21.056	21.095	VV	5270	119813	8.30%	1.008%
423	21.106	21.095	21.134	VV	5070	115445	8.00%	0.972%
424	21.171	21.134	21.262	VV	5132	349031	24.19%	2.938%
425	21.291	21.262	21.299	VV	3994	87965	6.10%	0.740%
426	21.309	21.299	21.319	VV	3906	45995	3.19%	0.387%
427	21.329	21.319	21.337	VV	3783	41524	2.88%	0.350%
428	21.428	21.337	21.444	VV	3866	242781	16.83%	2.043%
429	21.506	21.444	21.564	VV	5175	291625	20.21%	2.455%
430	21.605	21.564	21.653	VV	3271	160568	11.13%	1.351%
431	21.663	21.653	21.686	VV	2574	47864	3.32%	0.403%
432	21.688	21.686	21.697	VV	2372	16125	1.12%	0.136%
433	21.741	21.697	21.829	VV	2408	155260	10.76%	1.307%
434	21.840	21.829	21.898	VV	1566	54791	3.80%	0.461%
435	21.911	21.898	21.922	VV	1281	16622	1.15%	0.140%
436	21.933	21.922	22.027	VV	1176	48396	3.35%	0.407%
437	22.042	22.027	22.054	VV	301	4274	0.30%	0.036%
438	22.147	22.054	22.192	VV	1445	48302	3.35%	0.407%
			Sum of corrected areas:			11880830		

FG042425.M Wed Apr 30 02:10:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015773.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:15
Operator : YP\AJ
Sample : PB167783BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167783BL

Integration File: autoint1.e
Quant Time: Apr 30 01:20:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.002	1807045	15.348 ug/ml
Target Compounds			

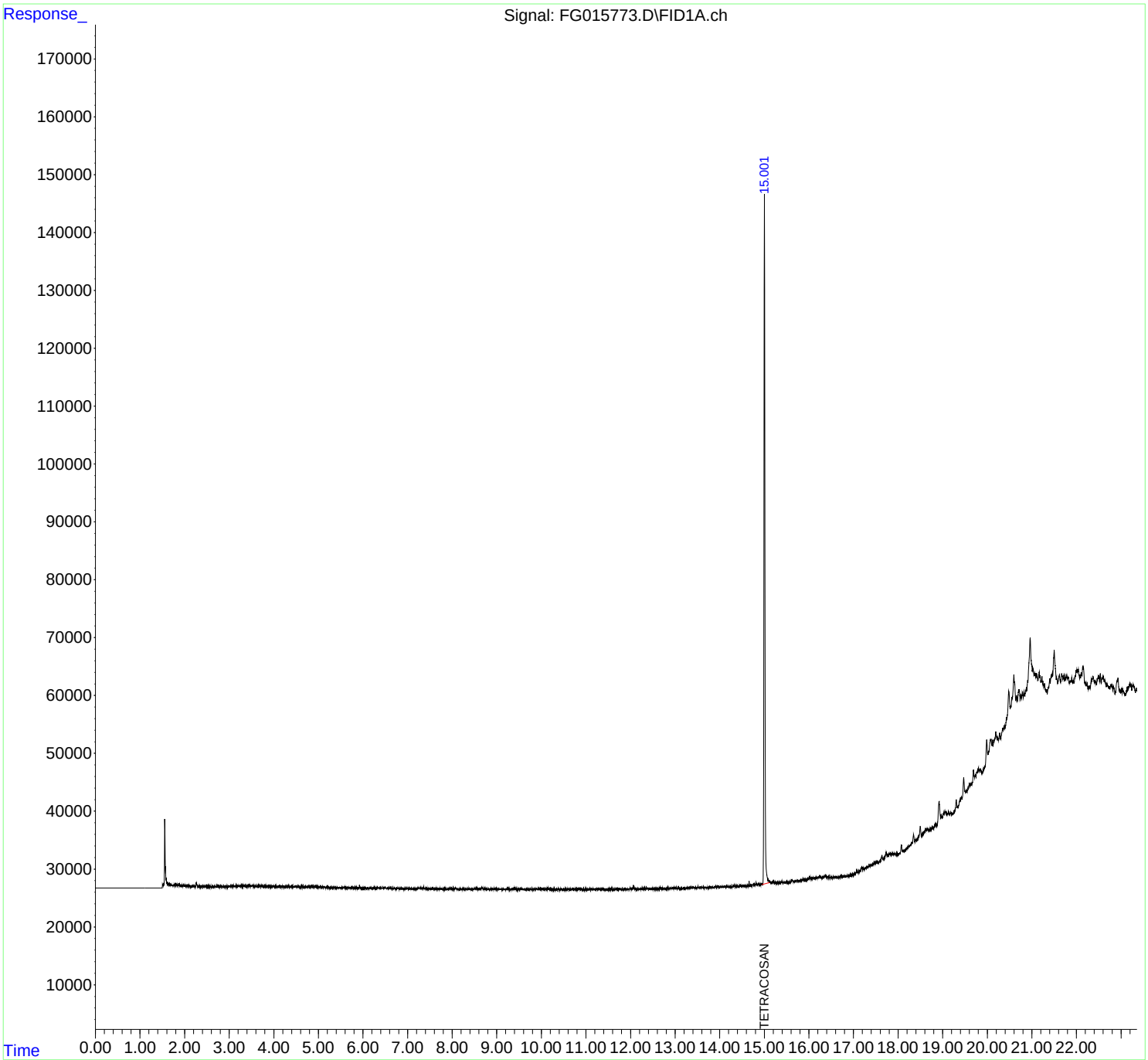
(f)=RT Delta > 1/2 Window (m)=manual int.

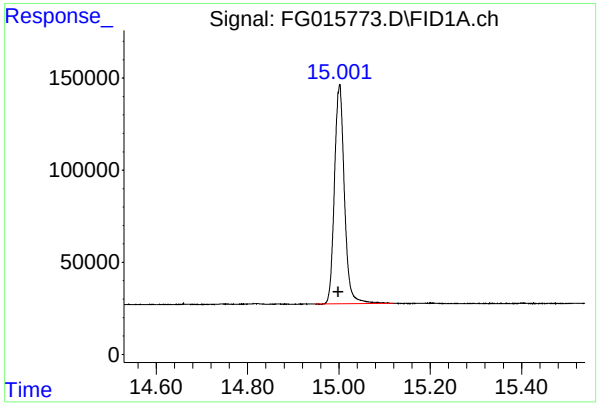
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015773.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:15
Operator : YP\AJ
Sample : PB167783BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167783BL

Integration File: autoint1.e
Quant Time: Apr 30 01:20:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.002 min
Delta R.T.: 0.003 mi
Response: 1807045
Conc: 15.35 ug/m

Instrument :
FID_G
ClientSampleId :
PB167783BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015773.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:15
Sample : PB167783BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.002	14.950	15.118	BB	119217	1807045	100.00%	100.000%
			Sum of corrected areas:			1807045		

FG042425.M Wed Apr 30 02:05:27 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015774.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:44
Operator : YP\AJ
Sample : PB167783BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167783BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
Quant Time: Apr 30 01:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.001	2013184	17.099	ug/ml
	Target Compounds				
1)	N-OCTANE	1.977	1394866	12.377	ug/ml
2)	N-DECANE	4.502	1772371	15.919	ug/ml
3)	N-DODECANE	6.684	1965183	17.148	ug/ml
4)	N-TETRADECANE	8.520	2061508	17.013	ug/ml
5)	N-HEXADECANE	10.134	2190067	17.445	ug/ml
6)	N-OCTADECANE	11.582	2317222	17.682	ug/ml
7)	N-EICOSANE	12.896	2297470	16.946	ug/ml
8)	N-DOCOSANE	14.098	2285842	17.235	ug/ml
10)	N-TETRACOSANE	15.204	2292947	17.255	ug/ml
11)	N-HEXACOSANE	16.229	2256090	17.012	ug/ml
12)	N-OCTACOSANE	17.181	2223261	16.864	ug/ml
13)	N-TRIACONTANE	18.071	2143837	16.080	ug/ml
14)	N-DOTRIACONTANE	18.905	1815943	13.775	ug/mlm
15)	N-TETRATRIACONTANE	19.690	1121884	9.277	ug/ml
16)	N-HEXATRIACONTANE	20.430	681475	6.356	ug/ml
17)	N-OCTATRIACONTANE	21.171	568438	5.901	ug/ml
18)	N-TETRACONTANE	22.091	531910	5.973	ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015774.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:44
Operator : YP\AJ
Sample : PB167783BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

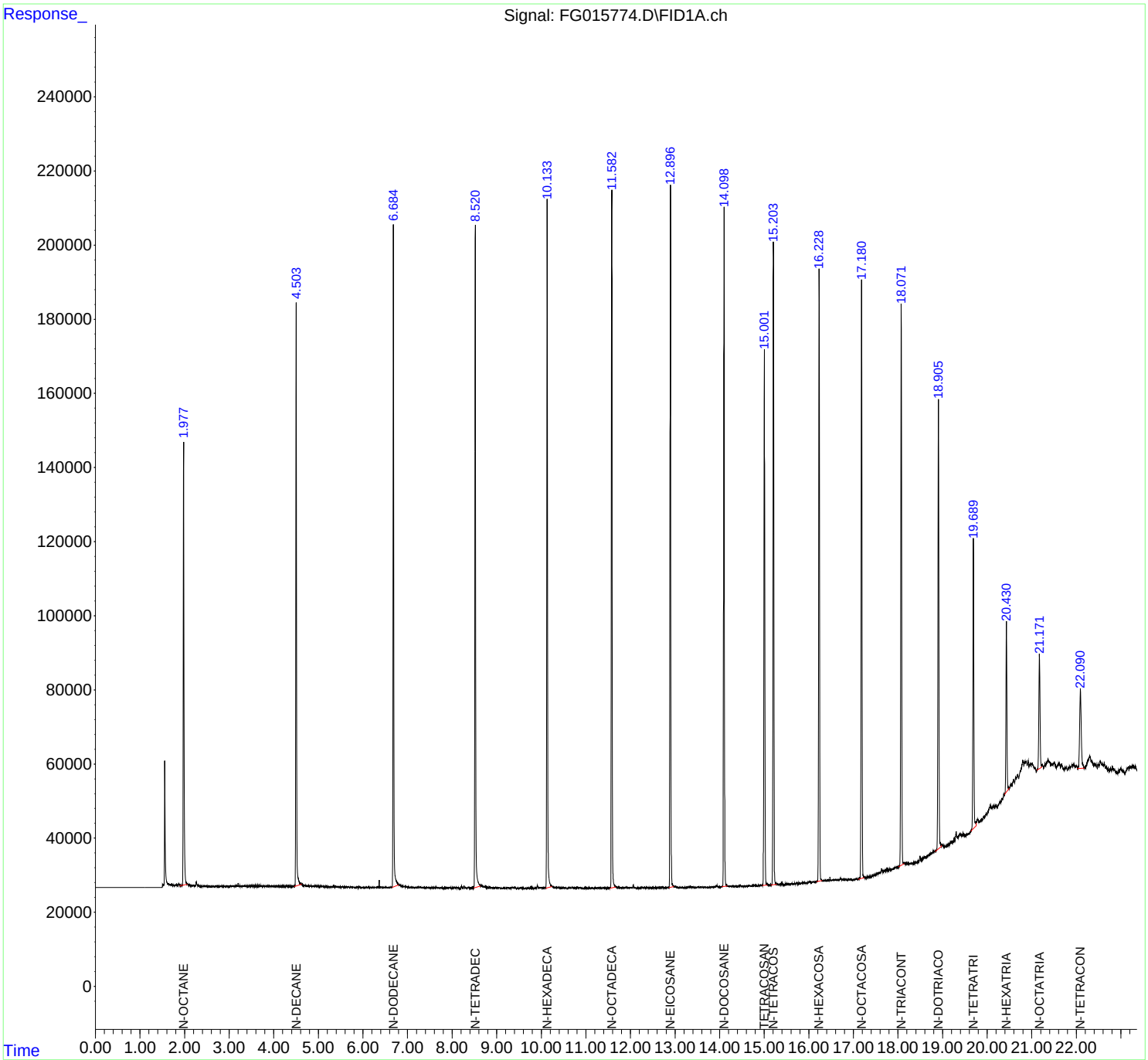
Integration File: autoint1.e
Quant Time: Apr 30 01:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
PB167783BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025



Instrument :
FID_G
ClientSampleId :
PB167783BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04292
Data File : FG015774.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:44
Sample : PB167783BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.977	1.898	2.063	BB	119159	1394866	60.20%	4.372%
2	4.502	4.463	4.618	BB	157404	1772371	76.49%	5.555%
3	6.684	6.653	6.803	BB	178896	1965183	84.81%	6.159%
4	8.520	8.484	8.640	BB	178798	2061508	88.96%	6.461%
5	10.134	10.101	10.238	BB	185394	2190067	94.51%	6.864%
6	11.582	11.545	11.674	BB	187704	2317222	100.00%	7.263%
7	12.896	12.857	12.974	BB	189296	2297470	99.15%	7.201%
8	14.098	14.048	14.166	BB	182656	2285842	98.65%	7.164%
9	15.001	14.953	15.071	BV	144320	2013184	86.88%	6.310%
10	15.204	15.154	15.279	BB	172894	2292947	98.95%	7.187%
11	16.229	16.178	16.295	BB	162940	2256090	97.36%	7.071%
12	17.181	17.107	17.247	BB	159435	2223261	95.95%	6.968%
13	18.071	18.008	18.141	BB	150395	2143837	92.52%	6.719%
14	18.905	18.518	18.973	PB	120664	1788636	77.19%	5.606%
15	19.690	19.640	19.755	BV	78275	1121884	48.42%	3.516%
16	20.430	20.390	20.490	BB	45831	681475	29.41%	2.136%
17	21.171	21.120	21.220	BV	30733	568438	24.53%	1.782%
18	22.091	22.024	22.180	PV	21443	531910	22.95%	1.667%
			Sum of corrected areas:			31906190		

FG042425.M Wed Apr 30 02:06:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015776.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 20:43
Operator : YP\AJ
Sample : Q1877-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
AU-6-042425MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
Quant Time: Apr 30 01:22:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	15.005	1681540	14.282	ug/ml
	Target Compounds				
1)	N-OCTANE	1.976	1358905	12.058	ug/ml
2)	N-DECANE	4.504	2159422	19.396	ug/ml
3)	N-DODECANE	6.688	5192621	45.310	ug/ml
4)	N-TETRADECANE	8.527	7021700	57.948	ug/mlm
5)	N-HEXADECANE	10.141	8216759	65.450	ug/mlm
6)	N-OCTADECANE	11.591	7270832	55.480	ug/mlm
7)	N-EICOSANE	12.904	5660794	41.754	ug/mlm
8)	N-DOCOSANE	14.104	3904649	29.440	ug/mlm
10)	N-TETRACOSANE	15.211	2969454	22.346	ug/ml
11)	N-HEXACOSANE	16.234	2563021	19.326	ug/ml
12)	N-OCTACOSANE	17.187	2479545	18.808	ug/ml
13)	N-TRIACONTANE	18.077	2516947	18.879	ug/ml
14)	N-DOTRIACONTANE	18.913	2244921	17.029	ug/ml
15)	N-TETRATRIACONTANE	19.699	1461208	12.082	ug/ml
16)	N-HEXATRIACONTANE	20.441	1107009	10.325	ug/ml
17)	N-OCTATRIACONTANE	21.191	828703	8.603	ug/ml
18)	N-TETRACONTANE	22.110	1017729	11.429	ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FG015776.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015776.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 20:43
Operator : YP\AJ
Sample : Q1877-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

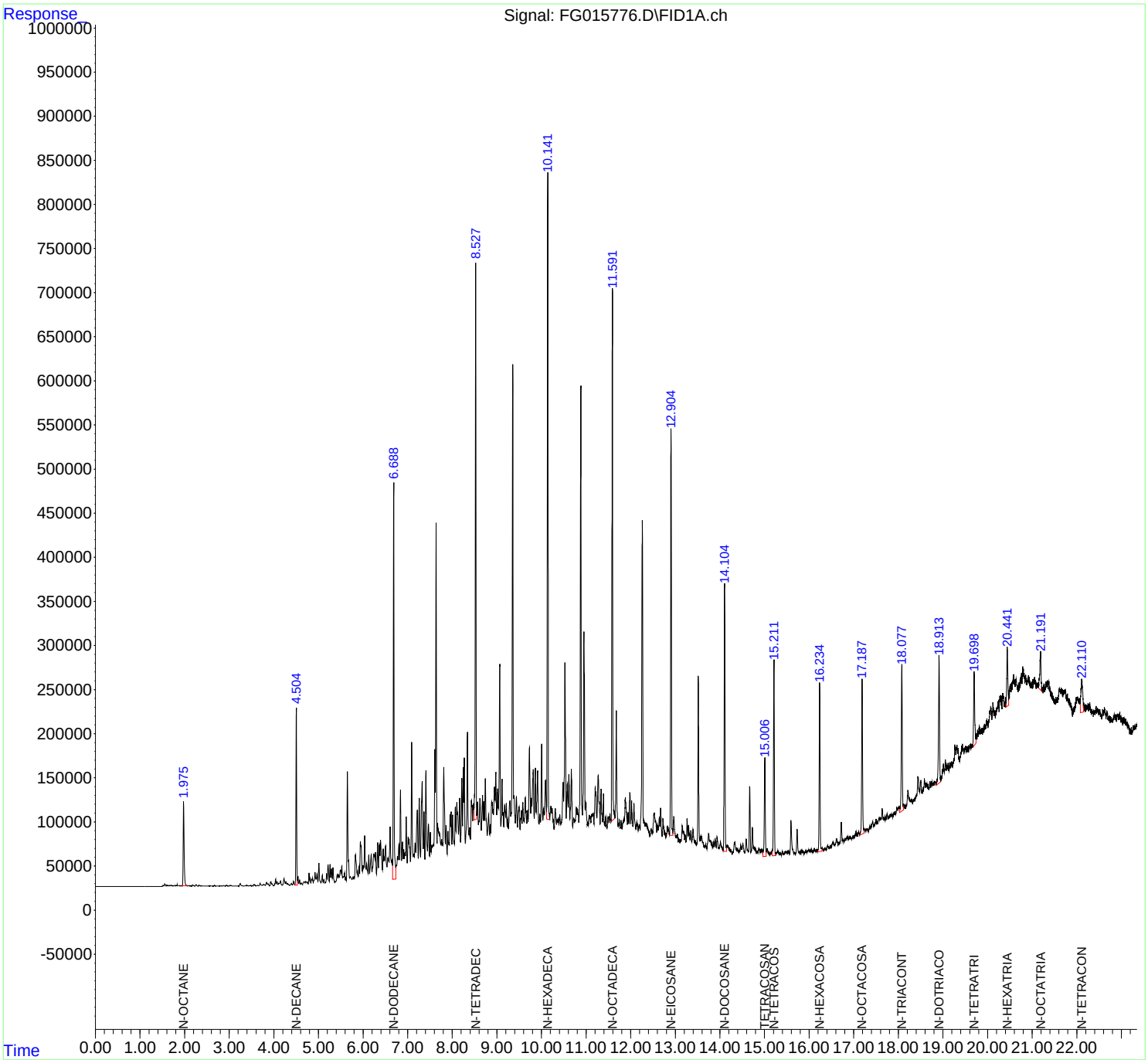
Integration File: autoint1.e
Quant Time: Apr 30 01:22:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
AU-6-042425MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025



Instrument :
FID_G
ClientSampleId :
AU-6-042425MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04292
Data File : FG015776.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 20:43
Sample : Q1877-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.920	1.900	1.941	BV	230	3565	0.03%	0.001%
2	1.976	1.941	2.098	VV	95528	1383472	12.93%	0.300%
3	2.099	2.098	2.108	VV	243	1037	0.01%	0.000%
4	2.111	2.108	2.133	VV	199	1678	0.02%	0.000%
5	2.137	2.133	2.150	VV	157	1209	0.01%	0.000%
6	2.154	2.150	2.167	VV	181	1310	0.01%	0.000%
7	2.180	2.167	2.240	VV	1301	19794	0.18%	0.004%
8	2.258	2.240	2.296	VV	1796	23269	0.22%	0.005%
9	2.326	2.296	2.377	VV	752	16340	0.15%	0.004%
10	2.382	2.377	2.405	VV	235	2477	0.02%	0.001%
11	2.422	2.405	2.431	VV	161	1581	0.01%	0.000%
12	2.434	2.431	2.456	VV	106	622	0.01%	0.000%
13	2.461	2.456	2.493	VV	100	963	0.01%	0.000%
14	2.504	2.493	2.514	VV	103	589	0.01%	0.000%
15	2.554	2.514	2.597	PV	402	9176	0.09%	0.002%
16	2.600	2.597	2.617	VV	165	1440	0.01%	0.000%
17	2.622	2.617	2.642	VV	59	741	0.01%	0.000%
18	2.674	2.642	2.724	PV	734	15884	0.15%	0.003%
19	2.745	2.724	2.758	VV	261	2782	0.03%	0.001%
20	2.792	2.758	2.811	VV	432	7984	0.07%	0.002%
21	2.821	2.811	2.834	VV	155	1113	0.01%	0.000%
22	2.876	2.834	2.901	VV	647	11928	0.11%	0.003%
23	2.938	2.901	2.981	VV	1020	19970	0.19%	0.004%
24	3.021	2.981	3.041	VV	1016	19560	0.18%	0.004%
25	3.045	3.041	3.071	VV	496	5917	0.06%	0.001%
26	3.079	3.071	3.090	VV	204	1564	0.01%	0.000%
27	3.094	3.090	3.098	VV	174	716	0.01%	0.000%
28	3.112	3.098	3.132	VV	261	3187	0.03%	0.001%
29	3.135	3.132	3.140	VV	128	394	0.00%	0.000%
30	3.164	3.140	3.177	VV	187	3125	0.03%	0.001%
31	3.199	3.177	3.214	VV	361	4952	0.05%	0.001%
32	3.244	3.214	3.283	VV	2710	51615	0.48%	0.011%
33	3.286	3.283	3.323	VV	410	5738	0.05%	0.001%
34	3.327	3.323	3.331	VV	73	234	0.00%	0.000%
35	3.363	3.331	3.368	PV	439	5264	0.05%	0.001%
36	3.383	3.368	3.400	VV	786	10946	0.10%	0.002%

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					rteres			
37	3.415	3.400	3.439	VV	594	8086	0.08%	0.002%
38	3.452	3.439	3.472	VV	422	5808		
39	3.488	3.472	3.507	VV	463	6161		
40	3.526	3.507	3.537	VV	506	5300		
41	3.557	3.537	3.600	VV	2000	31558		
42	3.615	3.600	3.625	VV	609	6237		
43	3.637	3.625	3.657	VV	719	9630	0.09%	0.002%
44	3.661	3.657	3.671	VV	293	2210	0.02%	0.000%
45	3.692	3.671	3.732	VV	2826	50827	0.48%	0.011%
46	3.775	3.732	3.808	VV	1866	48981	0.46%	0.011%
47	3.834	3.808	3.850	VV	4048	57731	0.54%	0.013%
48	3.858	3.850	3.867	VV	2261	21434	0.20%	0.005%
49	3.877	3.867	3.910	VV	2377	30311	0.28%	0.007%
50	3.933	3.910	3.956	VV	4899	76246	0.71%	0.017%
51	3.962	3.956	3.995	VV	2299	28110	0.26%	0.006%
52	4.040	3.995	4.058	PV	7508	106873	1.00%	0.023%
53	4.074	4.058	4.093	VV	4852	67251	0.63%	0.015%
54	4.114	4.093	4.128	VV	2593	47127	0.44%	0.010%
55	4.151	4.128	4.172	VV	5640	87966	0.82%	0.019%
56	4.182	4.172	4.197	VV	1022	12981	0.12%	0.003%
57	4.227	4.197	4.256	VV	8133	153406	1.43%	0.033%
58	4.273	4.256	4.301	VV	4624	82659	0.77%	0.018%
59	4.312	4.301	4.330	VV	2253	30604	0.29%	0.007%
60	4.337	4.330	4.359	VV	1279	12729	0.12%	0.003%
61	4.394	4.359	4.423	PV	2591	45102	0.42%	0.010%
62	4.442	4.423	4.468	VV	4482	62092	0.58%	0.013%
63	4.504	4.468	4.530	VV	201378	2160102	20.19%	0.469%
64	4.542	4.530	4.561	VV	9545	112971	1.06%	0.025%
65	4.579	4.561	4.600	VV	5502	71150	0.66%	0.015%
66	4.614	4.600	4.643	VV	1947	29775	0.28%	0.006%
67	4.679	4.643	4.699	VV	3576	78286	0.73%	0.017%
68	4.715	4.699	4.745	VV	3749	74428	0.70%	0.016%
69	4.757	4.745	4.771	VV	2754	28733	0.27%	0.006%
70	4.790	4.771	4.803	VV	13140	136735	1.28%	0.030%
71	4.811	4.803	4.828	VV	6730	67154	0.63%	0.015%
72	4.847	4.828	4.857	VV	5827	75328	0.70%	0.016%
73	4.868	4.857	4.884	VV	6789	75673	0.71%	0.016%
74	4.924	4.884	4.952	VV	13380	260056	2.43%	0.056%
75	4.968	4.952	4.989	VV	11360	161895	1.51%	0.035%
76	5.011	4.989	5.056	VV	23433	344973	3.22%	0.075%
77	5.087	5.056	5.106	VV	9519	126676	1.18%	0.027%
78	5.121	5.106	5.146	VV	4409	55339	0.52%	0.012%
79	5.185	5.146	5.198	VV	11154	131107	1.23%	0.028%
80	5.216	5.198	5.243	VV	21142	330529	3.09%	0.072%
81	5.261	5.243	5.277	VV	21336	243380	2.27%	0.053%
82	5.294	5.277	5.312	VV	16083	220304	2.06%	0.048%
83	5.328	5.312	5.365	VV	17369	227640	2.13%	0.049%
84	5.379	5.365	5.385	VV	1571	11522	0.11%	0.003%
85	5.425	5.385	5.438	VV	9661	168076	1.57%	0.036%
86	5.452	5.438	5.470	VV	8884	134663	1.26%	0.029%
87	5.493	5.470	5.512	VV	14242	280049	2.62%	0.061%
88	5.524	5.512	5.541	VV	18461	217881	2.04%	0.047%
89	5.549	5.541	5.561	VV	6366	71463	0.67%	0.016%

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rteres

90	5.587	5.561	5.603	VV	10783	172668	1.61%	0.037%
91	5.614	5.603	5.626	VV	5434	53940		
92	5.650	5.626	5.700	VV	125217	1831376	17	
93	5.718	5.700	5.753	VV	5485	143081	1	
94	5.777	5.753	5.789	VV	5366	84654		
95	5.801	5.789	5.809	VV	5523	54268		
96	5.830	5.809	5.866	VV	30458	653918	6.11%	0.142%
97	5.874	5.866	5.892	VV	12255	143608	1.34%	0.031%
98	5.913	5.892	5.924	VV	17459	210969	1.97%	0.046%
99	5.941	5.924	5.951	VV	45154	516450	4.83%	0.112%
100	5.956	5.951	5.987	VV	40109	581319	5.43%	0.126%
101	5.997	5.987	6.007	VV	17960	183948	1.72%	0.040%
102	6.037	6.007	6.069	VV	51541	915104	8.55%	0.199%
103	6.082	6.069	6.112	VV	19602	361701	3.38%	0.078%
104	6.129	6.112	6.147	VV	29203	377134	3.52%	0.082%
105	6.182	6.147	6.202	VV	29371	612489	5.72%	0.133%
106	6.244	6.202	6.271	VV	30009	915489	8.56%	0.199%
107	6.282	6.271	6.301	VV	31977	394129	3.68%	0.086%
108	6.328	6.301	6.346	VV	42461	633985	5.93%	0.138%
109	6.367	6.346	6.380	VV	40183	633144	5.92%	0.137%
110	6.394	6.380	6.436	VV	45231	975313	9.12%	0.212%
111	6.452	6.436	6.466	VV	35438	446324	4.17%	0.097%
112	6.476	6.466	6.485	VV	24975	262196	2.45%	0.057%
113	6.506	6.485	6.539	VV	38351	847783	7.92%	0.184%
114	6.558	6.539	6.582	VV	24623	540806	5.05%	0.117%
115	6.608	6.582	6.641	VV	59850	1162134	10.86%	0.252%
116	6.652	6.641	6.663	VV	21400	259255	2.42%	0.056%
117	6.688	6.663	6.734	VV	450099	5192899	48.53%	1.127%
118	6.748	6.734	6.753	VV	15458	166400	1.56%	0.036%
119	6.773	6.753	6.787	VV	25841	425586	3.98%	0.092%
120	6.804	6.787	6.820	VV	39030	620493	5.80%	0.135%
121	6.840	6.820	6.864	VV	100950	1414699	13.22%	0.307%
122	6.885	6.864	6.902	VV	41633	731389	6.84%	0.159%
123	6.914	6.902	6.926	VV	32917	399688	3.74%	0.087%
124	6.942	6.926	6.952	VV	29546	429455	4.01%	0.093%
125	6.969	6.952	6.991	VV	70080	954199	8.92%	0.207%
126	7.013	6.991	7.023	VV	46846	647737	6.05%	0.141%
127	7.032	7.023	7.063	VV	44528	847394	7.92%	0.184%
128	7.091	7.063	7.123	VV	153252	2292808	21.43%	0.498%
129	7.136	7.123	7.149	VV	27073	387273	3.62%	0.084%
130	7.168	7.149	7.184	VV	39853	677221	6.33%	0.147%
131	7.218	7.184	7.238	VV	77154	1670023	15.61%	0.362%
132	7.261	7.238	7.291	VV	90258	1551098	14.50%	0.337%
133	7.326	7.291	7.352	VV	108824	2449884	22.90%	0.532%
134	7.368	7.352	7.387	VV	74452	982082	9.18%	0.213%
135	7.410	7.387	7.446	VV	120552	2077553	19.42%	0.451%
136	7.469	7.446	7.492	VV	60255	1182862	11.05%	0.257%
137	7.510	7.492	7.526	VV	50758	775720	7.25%	0.168%
138	7.539	7.526	7.549	VV	35951	451030	4.22%	0.098%
139	7.563	7.549	7.570	VV	35276	428203	4.00%	0.093%
140	7.579	7.570	7.586	VV	37084	359245	3.36%	0.078%
141	7.612	7.586	7.622	VV	144171	1840901	17.20%	0.400%

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142	7.639	7.622	7.660	VV	400742	4594433	42.94%	0.997%
143	7.672	7.660	7.683	VV	60511	748722		
144	7.689	7.683	7.700	VV	53181	513181		
145	7.705	7.700	7.717	VV	50808	496992		
146	7.723	7.717	7.747	VV	47577	739103		
147	7.761	7.747	7.777	VV	41495	691938		
148	7.781	7.777	7.788	VV	36274	231194	2.16%	0.050%
149	7.811	7.788	7.846	VV	123451	2603382	24.33%	0.565%
150	7.863	7.846	7.887	VV	57230	1044958	9.77%	0.227%
151	7.905	7.887	7.919	VV	50131	750202	7.01%	0.163%
152	7.926	7.919	7.936	VV	37148	377556	3.53%	0.082%
153	7.952	7.936	7.963	VV	69496	888027	8.30%	0.193%
154	7.976	7.963	7.993	VV	72190	1067861	9.98%	0.232%
155	8.008	7.993	8.049	VV	68750	1571034	14.68%	0.341%
156	8.069	8.049	8.085	VV	77765	1258362	11.76%	0.273%
157	8.103	8.085	8.116	VV	82678	1258785	11.76%	0.273%
158	8.123	8.116	8.141	VV	71658	942279	8.81%	0.204%
159	8.167	8.141	8.187	VV	87341	1652245	15.44%	0.359%
160	8.215	8.187	8.231	VV	109558	1884991	17.62%	0.409%
161	8.248	8.231	8.259	VV	121861	1551541	14.50%	0.337%
162	8.271	8.259	8.297	VV	132544	1819889	17.01%	0.395%
163	8.342	8.297	8.375	VV	161561	3485465	32.57%	0.756%
164	8.391	8.375	8.410	VV	52993	1015180	9.49%	0.220%
165	8.429	8.410	8.457	VV	83936	1940709	18.14%	0.421%
166	8.473	8.457	8.484	VV	79264	1173912	10.97%	0.255%
167	8.527	8.484	8.549	VV	692371	9448492	88.31%	2.051%
168	8.569	8.549	8.587	VV	81673	1620652	15.15%	0.352%
169	8.622	8.587	8.652	VV	84987	2567050	23.99%	0.557%
170	8.680	8.652	8.696	VV	88983	1868732	17.47%	0.406%
171	8.709	8.696	8.725	VV	81408	1221153	11.41%	0.265%
172	8.743	8.725	8.787	VV	107692	2589692	24.20%	0.562%
173	8.816	8.787	8.839	VV	66770	1714208	16.02%	0.372%
174	8.852	8.839	8.864	VV	55610	756400	7.07%	0.164%
175	8.884	8.864	8.890	VV	79593	1029223	9.62%	0.223%
176	8.897	8.890	8.910	VV	80560	920810	8.61%	0.200%
177	8.917	8.910	8.926	VV	72651	676956	6.33%	0.147%
178	8.948	8.926	8.962	VV	97357	1817439	16.99%	0.394%
179	8.978	8.962	8.997	VV	113847	1977936	18.49%	0.429%
180	9.019	8.997	9.032	VV	95248	1686205	15.76%	0.366%
181	9.066	9.032	9.090	VV	236102	4273396	39.94%	0.927%
182	9.118	9.090	9.135	VV	105976	2017463	18.86%	0.438%
183	9.142	9.135	9.156	VV	67861	784318	7.33%	0.170%
184	9.173	9.156	9.199	VV	75427	1735316	16.22%	0.377%
185	9.214	9.199	9.231	VV	78080	1291823	12.07%	0.280%
186	9.247	9.231	9.262	VV	60188	1013949	9.48%	0.220%
187	9.293	9.262	9.312	VV	80721	2085491	19.49%	0.453%
188	9.356	9.312	9.378	VV	573744	8162675	76.29%	1.772%
189	9.382	9.378	9.417	VV	86372	1668336	15.59%	0.362%
190	9.440	9.417	9.463	VV	85289	1910375	17.85%	0.415%
191	9.499	9.463	9.520	VV	72265	2135517	19.96%	0.463%
192	9.552	9.520	9.566	VV	68741	1639683	15.32%	0.356%
193	9.583	9.566	9.606	VV	77738	1562512	14.60%	0.339%
194	9.637	9.606	9.671	VV	83202	2584329	24.15%	0.561%

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195	9.686	9.671	9.700	VV	68466	1055465	9.86%	0.229%
196	9.730	9.700	9.763	VV	139496	3474697	32	
197	9.775	9.763	9.786	VV	80854	1043748	9	
198	9.817	9.786	9.839	VV	113467	2897560	27	
199	9.863	9.839	9.882	VV	116080	2163082	20	
200	9.915	9.882	9.947	VV	112605	3053637	28	
201	9.962	9.947	9.979	VV	63011	1113054	10.40%	0.242%
202	10.004	9.979	10.033	VV	142927	2803589	26.20%	0.608%
203	10.047	10.033	10.068	VV	70080	1356254	12.68%	0.294%
204	10.092	10.068	10.115	VV	101647	2357926	22.04%	0.512%
205	10.142	10.115	10.188	VV	788072	10699817	100.00%	2.322%
206	10.216	10.188	10.231	VV	71730	1717679	16.05%	0.373%
207	10.240	10.231	10.283	VV	68880	1812840	16.94%	0.393%
208	10.312	10.283	10.338	VV	69080	1900544	17.76%	0.412%
209	10.347	10.338	10.361	VV	55248	729354	6.82%	0.158%
210	10.375	10.361	10.394	VV	56746	1094014	10.22%	0.237%
211	10.410	10.394	10.433	VV	61258	1292142	12.08%	0.280%
212	10.485	10.433	10.500	VV	97841	2837832	26.52%	0.616%
213	10.528	10.500	10.556	VV	233225	4503893	42.09%	0.977%
214	10.580	10.556	10.599	VV	95910	2025631	18.93%	0.440%
215	10.617	10.599	10.637	VV	106779	1875032	17.52%	0.407%
216	10.673	10.637	10.701	VV	112007	2830710	26.46%	0.614%
217	10.719	10.701	10.734	VV	56597	1059253	9.90%	0.230%
218	10.744	10.734	10.753	VV	54122	614506	5.74%	0.133%
219	10.780	10.753	10.799	VV	68604	1673954	15.64%	0.363%
220	10.809	10.799	10.839	VV	66109	1448586	13.54%	0.314%
221	10.883	10.839	10.919	VV	546517	8555144	79.96%	1.857%
222	10.954	10.919	10.980	VV	265580	5085776	47.53%	1.104%
223	10.997	10.980	11.030	VV	74120	1882281	17.59%	0.409%
224	11.042	11.030	11.050	VV	49122	587058	5.49%	0.127%
225	11.071	11.050	11.083	VV	57707	1051656	9.83%	0.228%
226	11.091	11.083	11.109	VV	58004	870965	8.14%	0.189%
227	11.126	11.109	11.131	VV	59906	735295	6.87%	0.160%
228	11.138	11.131	11.144	VV	59928	471252	4.40%	0.102%
229	11.160	11.144	11.178	VV	60206	1147541	10.72%	0.249%
230	11.205	11.178	11.240	VV	90208	2739670	25.60%	0.595%
231	11.273	11.240	11.314	VV	102431	3359441	31.40%	0.729%
232	11.336	11.314	11.371	VV	87677	2182014	20.39%	0.474%
233	11.388	11.371	11.425	VV	81741	1919761	17.94%	0.417%
234	11.440	11.425	11.468	VV	56295	1292535	12.08%	0.281%
235	11.495	11.468	11.513	VV	54896	1367217	12.78%	0.297%
236	11.536	11.513	11.556	VV	58512	1404849	13.13%	0.305%
237	11.591	11.556	11.647	VV	652637	10100188	94.40%	2.192%
238	11.678	11.647	11.715	VV	175300	3805841	35.57%	0.826%
239	11.741	11.715	11.765	VV	51895	1392288	13.01%	0.302%
240	11.782	11.765	11.803	VV	50934	1082202	10.11%	0.235%
241	11.832	11.803	11.836	VV	50179	907290	8.48%	0.197%
242	11.881	11.836	11.925	VV	76369	3156474	29.50%	0.685%
243	11.944	11.925	11.959	VV	59133	1076204	10.06%	0.234%
244	11.981	11.959	12.003	VV	81312	1690461	15.80%	0.367%
245	12.020	12.003	12.048	VV	72227	1519392	14.20%	0.330%
246	12.073	12.048	12.117	VV	69124	2089604	19.53%	0.453%

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247	12.139	12.117	12.173	VV	48150	1446864	13.52%	0.314%
248	12.194	12.173	12.210	VV	44219	933365	8	
249	12.261	12.210	12.290	VV	388752	6460155	60	
250	12.299	12.290	12.315	VV	49063	699944	6	
251	12.332	12.315	12.353	VV	46424	1022050	9	
252	12.362	12.353	12.378	VV	44667	634756	5	
253	12.383	12.378	12.433	VV	40843	1196829	11.19%	0.260%
254	12.458	12.433	12.474	VV	39203	866998	8.10%	0.188%
255	12.488	12.474	12.497	VV	36721	484520	4.53%	0.105%
256	12.530	12.497	12.557	VV	57089	1809646	16.91%	0.393%
257	12.562	12.557	12.583	VV	48038	675016	6.31%	0.146%
258	12.599	12.583	12.616	VV	42686	771411	7.21%	0.167%
259	12.641	12.616	12.655	VV	52314	1045622	9.77%	0.227%
260	12.671	12.655	12.706	VV	62267	1368381	12.79%	0.297%
261	12.723	12.706	12.793	VV	49736	1921294	17.96%	0.417%
262	12.822	12.793	12.869	VV	41112	1607223	15.02%	0.349%
263	12.904	12.869	12.945	VV	491901	7040829	65.80%	1.528%
264	12.966	12.945	13.006	VV	50880	1400451	13.09%	0.304%
265	13.020	13.006	13.030	VV	29021	411655	3.85%	0.089%
266	13.048	13.030	13.069	VV	31056	654269	6.11%	0.142%
267	13.077	13.069	13.083	VV	25045	205554	1.92%	0.045%
268	13.087	13.083	13.103	VV	24917	275018	2.57%	0.060%
269	13.118	13.103	13.131	VV	24699	398388	3.72%	0.086%
270	13.153	13.131	13.170	VV	40317	790452	7.39%	0.172%
271	13.175	13.170	13.209	VV	34377	733165	6.85%	0.159%
272	13.222	13.209	13.242	VV	29697	513468	4.80%	0.111%
273	13.263	13.242	13.283	VV	48246	860233	8.04%	0.187%
274	13.295	13.283	13.310	VV	40329	586396	5.48%	0.127%
275	13.314	13.310	13.331	VV	30781	355045	3.32%	0.077%
276	13.346	13.331	13.375	VV	34328	721792	6.75%	0.157%
277	13.396	13.375	13.428	VV	35929	893814	8.35%	0.194%
278	13.445	13.428	13.467	VV	23396	490827	4.59%	0.107%
279	13.515	13.467	13.546	VV	207342	3169460	29.62%	0.688%
280	13.555	13.546	13.568	VV	25435	322802	3.02%	0.070%
281	13.586	13.568	13.642	VV	26468	955172	8.93%	0.207%
282	13.647	13.642	13.650	VV	15663	69159	0.65%	0.015%
283	13.654	13.650	13.662	VV	16796	118333	1.11%	0.026%
284	13.682	13.662	13.704	VV	18564	384713	3.60%	0.083%
285	13.747	13.704	13.766	VV	29728	810400	7.57%	0.176%
286	13.770	13.766	13.779	VV	21588	170674	1.60%	0.037%
287	13.791	13.779	13.810	VV	21720	366835	3.43%	0.080%
288	13.823	13.810	13.843	VV	20130	332521	3.11%	0.072%
289	13.860	13.843	13.876	VV	20311	335805	3.14%	0.073%
290	13.894	13.876	13.922	VV	23042	484844	4.53%	0.105%
291	13.941	13.922	13.973	VV	24310	545452	5.10%	0.118%
292	14.011	13.973	14.042	VV	19769	625885	5.85%	0.136%
293	14.045	14.042	14.073	VV	13965	224650	2.10%	0.049%
294	14.104	14.073	14.148	VV	310864	4288376	40.08%	0.931%
295	14.159	14.148	14.171	VV	15201	189346	1.77%	0.041%
296	14.179	14.171	14.201	VV	14155	228164	2.13%	0.050%
297	14.219	14.201	14.238	VV	12059	222083	2.08%	0.048%
298	14.245	14.238	14.271	VV	9085	148909	1.39%	0.032%
299	14.330	14.271	14.359	VV	18069	598234	5.59%	0.130%

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300	14.370	14.359	14.383	VV	11219	145245	1.36%	0.032%
301	14.397	14.383	14.420	VV	10876	196453	1	
302	14.437	14.420	14.448	VV	8710	126622	1	
303	14.465	14.448	14.483	VV	14518	242478	2	
304	14.515	14.483	14.552	VV	15901	447409	4	
305	14.589	14.552	14.639	VV	20944	572370	5	
306	14.667	14.639	14.701	VV	79934	1179176	11.02%	0.256%
307	14.727	14.701	14.757	VV	33317	581541	5.44%	0.126%
308	14.760	14.757	14.776	VV	11128	114648	1.07%	0.025%
309	14.789	14.776	14.823	VV	9795	218803	2.04%	0.047%
310	14.845	14.823	14.852	VV	5721	85771	0.80%	0.019%
311	14.872	14.852	14.905	VV	9253	230166	2.15%	0.050%
312	14.923	14.905	14.938	VV	7448	130298	1.22%	0.028%
313	14.952	14.938	14.968	VV	7333	112966	1.06%	0.025%
314	15.005	14.968	15.037	VV	110847	1680625	15.71%	0.365%
315	15.057	15.037	15.087	VV	8584	173970	1.63%	0.038%
316	15.094	15.087	15.118	VV	4429	57931	0.54%	0.013%
317	15.132	15.118	15.142	VV	3607	40610	0.38%	0.009%
318	15.173	15.142	15.177	VV	6249	96044	0.90%	0.021%
319	15.211	15.177	15.245	VV	222395	2970275	27.76%	0.645%
320	15.251	15.245	15.262	VV	2945	29594	0.28%	0.006%
321	15.302	15.262	15.328	VV	5514	142319	1.33%	0.031%
322	15.343	15.328	15.368	VV	2889	48459	0.45%	0.011%
323	15.373	15.368	15.381	VV	1215	6312	0.06%	0.001%
324	15.403	15.381	15.429	PV	3877	63355	0.59%	0.014%
325	15.485	15.429	15.502	VV	3858	112858	1.05%	0.024%
326	15.517	15.502	15.532	VV	3708	56878	0.53%	0.012%
327	15.545	15.532	15.565	VV	4497	54477	0.51%	0.012%
328	15.592	15.565	15.664	VV	38399	710566	6.64%	0.154%
329	15.669	15.664	15.684	VV	2344	18819	0.18%	0.004%
330	15.729	15.684	15.763	VV	28076	441969	4.13%	0.096%
331	15.769	15.763	15.780	VV	2877	25757	0.24%	0.006%
332	15.783	15.780	15.811	VV	2588	36865	0.34%	0.008%
333	15.830	15.811	15.849	VV	3561	62234	0.58%	0.014%
334	15.863	15.849	15.889	VV	3750	53381	0.50%	0.012%
335	15.914	15.889	15.929	PV	2328	38030	0.36%	0.008%
336	15.955	15.929	15.960	VV	2250	35897	0.34%	0.008%
337	15.990	15.960	16.013	VV	4054	85427	0.80%	0.019%
338	16.018	16.013	16.023	VV	2086	10126	0.09%	0.002%
339	16.029	16.023	16.032	VV	2796	11938	0.11%	0.003%
340	16.058	16.032	16.079	VV	3272	58323	0.55%	0.013%
341	16.086	16.079	16.090	VV	1231	6322	0.06%	0.001%
342	16.120	16.090	16.150	VV	3615	80303	0.75%	0.017%
343	16.165	16.150	16.180	VV	2517	35109	0.33%	0.008%
344	16.185	16.180	16.189	VV	1867	8472	0.08%	0.002%
345	16.195	16.189	16.201	VV	2161	12793	0.12%	0.003%
346	16.234	16.201	16.288	VV	190362	2550227	23.83%	0.553%
347	16.297	16.288	16.317	VV	3548	36859	0.34%	0.008%
348	16.336	16.317	16.341	VV	2063	20663	0.19%	0.004%
349	16.348	16.341	16.352	VV	2265	12382	0.12%	0.003%
350	16.367	16.352	16.385	VV	1895	27674	0.26%	0.006%
351	16.416	16.385	16.448	PV	4906	111960	1.05%	0.024%

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352	16.452	16.448	16.460	VV	1348	8421	0.08%	0.002%
353	16.478	16.460	16.492	VV	2929	38184	[illegible]	
354	16.534	16.492	16.563	VV	6357	167874	[illegible]	
355	16.567	16.563	16.575	VV	2603	16414	[illegible]	
356	16.615	16.575	16.651	VV	8608	189600	[illegible]	
357	16.669	16.651	16.675	VV	2319	22371	[illegible]	
358	16.720	16.675	16.746	VV	24880	393291	3.68%	0.085%
359	16.760	16.746	16.784	VV	3648	55779	0.52%	0.012%
360	16.801	16.784	16.815	VV	3357	43924	0.41%	0.010%
361	16.820	16.815	16.826	VV	3674	18044	0.17%	0.004%
362	16.854	16.826	16.861	VV	4472	77132	0.72%	0.017%
363	16.866	16.861	16.874	VV	3942	22416	0.21%	0.005%
364	16.880	16.874	16.886	VV	2619	18621	0.17%	0.004%
365	16.893	16.886	16.899	VV	2867	18637	0.17%	0.004%
366	16.928	16.899	16.944	VV	3782	77137	0.72%	0.017%
367	16.947	16.944	16.957	VV	1738	8626	0.08%	0.002%
368	16.997	16.957	17.006	PV	2755	43285	0.40%	0.009%
369	17.046	17.006	17.089	VV	6684	146812	1.37%	0.032%
370	17.111	17.089	17.131	VV	4705	71495	0.67%	0.016%
371	17.187	17.131	17.230	VV	174804	2487640	23.25%	0.540%
372	17.242	17.230	17.274	VV	4111	84092	0.79%	0.018%
373	17.282	17.274	17.290	VV	3421	26920	0.25%	0.006%
374	17.297	17.290	17.302	VV	2220	13206	0.12%	0.003%
375	17.310	17.302	17.324	VV	2871	20157	0.19%	0.004%
376	17.360	17.324	17.382	PV	4210	82866	0.77%	0.018%
377	17.392	17.382	17.396	VV	3964	28550	0.27%	0.006%
378	17.423	17.396	17.457	VV	8684	183312	1.71%	0.040%
379	17.502	17.457	17.530	VV	9006	224775	2.10%	0.049%
380	17.534	17.530	17.540	VV	3355	20243	0.19%	0.004%
381	17.568	17.540	17.588	VV	8613	199339	1.86%	0.043%
382	17.596	17.588	17.614	VV	7854	106680	1.00%	0.023%
383	17.639	17.614	17.659	VV	17306	286811	2.68%	0.062%
384	17.667	17.659	17.690	VV	6582	96093	0.90%	0.021%
385	17.704	17.690	17.723	VV	7205	95297	0.89%	0.021%
386	17.753	17.723	17.770	VV	8018	167050	1.56%	0.036%
387	17.787	17.770	17.793	VV	4621	52968	0.50%	0.011%
388	17.820	17.793	17.835	VV	6145	120392	1.13%	0.026%
389	17.844	17.835	17.874	VV	5159	99429	0.93%	0.022%
390	17.905	17.874	17.917	VV	7001	115049	1.08%	0.025%
391	17.935	17.917	17.943	VV	6583	72438	0.68%	0.016%
392	17.966	17.943	17.987	VV	10379	195577	1.83%	0.042%
393	18.021	17.987	18.031	VV	10218	223426	2.09%	0.048%
394	18.077	18.031	18.120	VV	168858	2693208	25.17%	0.584%
395	18.123	18.120	18.135	VV	9375	66940	0.63%	0.015%
396	18.149	18.135	18.167	VV	8361	128740	1.20%	0.028%
397	18.213	18.167	18.238	VV	22976	574765	5.37%	0.125%
398	18.247	18.238	18.274	VV	13914	252822	2.36%	0.055%
399	18.295	18.274	18.319	VV	10812	253616	2.37%	0.055%
400	18.334	18.319	18.339	VV	9736	92884	0.87%	0.020%
401	18.343	18.339	18.350	VV	10156	60290	0.56%	0.013%
402	18.361	18.350	18.376	VV	10205	135577	1.27%	0.029%
403	18.408	18.376	18.414	VV	14497	264128	2.47%	0.057%
404	18.438	18.414	18.443	VV	32351	399500	3.73%	0.087%

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405	18.446	18.443	18.477	VV	32048	453012	4.23%	0.098%
406	18.498	18.477	18.524	VV	27234	572352	5	
407	18.530	18.524	18.545	VV	14631	167325	1	
408	18.556	18.545	18.563	VV	18151	169365	1	
409	18.584	18.563	18.605	VV	27238	522852	4	
410	18.622	18.605	18.637	VV	21115	353887	3	
411	18.645	18.637	18.655	VV	19380	194854	1.82%	0.042%
412	18.667	18.655	18.677	VV	18193	203546	1.90%	0.044%
413	18.683	18.677	18.689	VV	14370	92693	0.87%	0.020%
414	18.711	18.689	18.720	VV	20441	308620	2.88%	0.067%
415	18.752	18.720	18.768	VV	19585	487052	4.55%	0.106%
416	18.782	18.768	18.788	VV	16816	186103	1.74%	0.040%
417	18.795	18.788	18.805	VV	17175	159472	1.49%	0.035%
418	18.814	18.805	18.822	VV	17557	173809	1.62%	0.038%
419	18.828	18.822	18.840	VV	17369	174705	1.63%	0.038%
420	18.848	18.840	18.854	VV	16267	127525	1.19%	0.028%
421	18.913	18.854	18.949	VV	158527	3027217	28.29%	0.657%
422	18.957	18.949	18.964	VV	20872	155348	1.45%	0.034%
423	18.989	18.964	18.995	VV	27542	401536	3.75%	0.087%
424	19.011	18.995	19.034	VV	33043	638004	5.96%	0.138%
425	19.054	19.034	19.077	VV	36804	777920	7.27%	0.169%
426	19.086	19.077	19.103	VV	29289	425924	3.98%	0.092%
427	19.113	19.103	19.124	VV	31053	328782	3.07%	0.071%
428	19.132	19.124	19.140	VV	24811	236471	2.21%	0.051%
429	19.153	19.140	19.167	VV	30342	432053	4.04%	0.094%
430	19.177	19.167	19.190	VV	29323	382951	3.58%	0.083%
431	19.196	19.190	19.203	VV	30758	205984	1.93%	0.045%
432	19.215	19.203	19.222	VV	28828	309187	2.89%	0.067%
433	19.239	19.222	19.245	VV	30791	405896	3.79%	0.088%
434	19.264	19.245	19.274	VV	47685	667697	6.24%	0.145%
435	19.276	19.274	19.288	VV	44894	347779	3.25%	0.075%
436	19.302	19.288	19.309	VV	43806	523772	4.90%	0.114%
437	19.315	19.309	19.332	VV	46614	590078	5.51%	0.128%
438	19.340	19.332	19.367	VV	41525	709102	6.63%	0.154%
439	19.416	19.367	19.427	VV	42374	1208609	11.30%	0.262%
440	19.438	19.427	19.453	VV	43812	625278	5.84%	0.136%
441	19.460	19.453	19.469	VV	39120	369043	3.45%	0.080%
442	19.479	19.469	19.487	VV	37614	383380	3.58%	0.083%
443	19.494	19.487	19.500	VV	39076	304530	2.85%	0.066%
444	19.504	19.500	19.508	VV	40200	185261	1.73%	0.040%
445	19.515	19.508	19.524	VV	40074	339215	3.17%	0.074%
446	19.543	19.524	19.549	VV	38941	536319	5.01%	0.116%
447	19.555	19.549	19.560	VV	36878	244177	2.28%	0.053%
448	19.568	19.560	19.575	VV	39671	322312	3.01%	0.070%
449	19.583	19.575	19.589	VV	36543	273823	2.56%	0.059%
450	19.605	19.589	19.614	VV	39165	559067	5.23%	0.121%
451	19.624	19.614	19.641	VV	39781	616408	5.76%	0.134%
452	19.655	19.641	19.665	VV	38730	510947	4.78%	0.111%
453	19.699	19.665	19.742	VV	119620	3147646	29.42%	0.683%
454	19.749	19.742	19.756	VV	46861	368253	3.44%	0.080%
455	19.775	19.756	19.790	VV	52251	943728	8.82%	0.205%
456	19.817	19.790	19.825	VV	54555	1056327	9.87%	0.229%

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457	19.830	19.825	19.849	VV	53210	683401	6.39%	0.148%
458	19.855	19.849	19.870	VV	51023	614942	5	
459	19.876	19.870	19.888	VV	51568	506519	4	
460	19.894	19.888	19.899	VV	47819	305428	2	
461	19.904	19.899	19.911	VV	50538	355370	3	
462	19.932	19.911	19.937	VV	53927	779970	7	
463	19.942	19.937	19.947	VV	52185	294334	2.75%	0.064%
464	19.954	19.947	19.964	VV	51684	510074	4.77%	0.111%
465	19.971	19.964	19.975	VV	56879	369713	3.46%	0.080%
466	19.985	19.975	19.992	VV	57711	561145	5.24%	0.122%
467	20.002	19.992	20.012	VV	54718	616410	5.76%	0.134%
468	20.048	20.012	20.060	VV	66931	1659017	15.51%	0.360%
469	20.071	20.060	20.086	VV	70327	1056094	9.87%	0.229%
470	20.091	20.086	20.096	VV	65445	388384	3.63%	0.084%
471	20.121	20.096	20.127	VV	74095	1188723	11.11%	0.258%
472	20.131	20.127	20.141	VV	68014	514760	4.81%	0.112%
473	20.146	20.141	20.174	VV	63263	1201870	11.23%	0.261%
474	20.180	20.174	20.182	VV	60649	295991	2.77%	0.064%
475	20.187	20.182	20.193	VV	62829	410019	3.83%	0.089%
476	20.199	20.193	20.203	VV	65999	377750	3.53%	0.082%
477	20.234	20.203	20.238	VV	72320	1377203	12.87%	0.299%
478	20.245	20.238	20.260	VV	73551	899846	8.41%	0.195%
479	20.276	20.260	20.285	VV	76915	1080712	10.10%	0.235%
480	20.290	20.285	20.302	VV	77285	746756	6.98%	0.162%
481	20.315	20.302	20.322	VV	76810	811881	7.59%	0.176%
482	20.337	20.322	20.354	VV	78600	1429143	13.36%	0.310%
483	20.359	20.354	20.370	VV	75103	697179	6.52%	0.151%
484	20.399	20.370	20.405	VV	71535	1375154	12.85%	0.298%
485	20.411	20.405	20.415	VV	69533	374194	3.50%	0.081%
486	20.441	20.415	20.472	VV	128206	3221359	30.11%	0.699%
487	20.486	20.472	20.491	VV	77830	845779	7.90%	0.184%
488	20.511	20.491	20.520	VV	84395	1412541	13.20%	0.307%
489	20.525	20.520	20.531	VV	85234	504846	4.72%	0.110%
490	20.544	20.531	20.550	VV	84882	958384	8.96%	0.208%
491	20.582	20.550	20.597	VV	93831	2456795	22.96%	0.533%
492	20.600	20.597	20.606	VV	84753	433992	4.06%	0.094%
493	20.611	20.606	20.625	VV	87112	985363	9.21%	0.214%
494	20.641	20.625	20.691	VV	87829	3128252	29.24%	0.679%
495	20.704	20.691	20.722	VV	81305	1454323	13.59%	0.316%
496	20.743	20.722	20.750	VV	86895	1365526	12.76%	0.296%
497	20.759	20.750	20.773	VV	89716	1166042	10.90%	0.253%
498	20.787	20.773	20.792	VV	97223	1001734	9.36%	0.217%
499	20.804	20.792	20.815	VV	93501	1255812	11.74%	0.273%
500	20.820	20.815	20.835	VV	89319	1029548	9.62%	0.223%
501	20.856	20.835	20.875	VV	86383	1900180	17.76%	0.412%
502	20.880	20.875	20.889	VV	79384	652397	6.10%	0.142%
503	20.901	20.889	20.912	VV	80990	1105186	10.33%	0.240%
504	20.916	20.912	20.948	VV	82634	1663400	15.55%	0.361%
505	20.959	20.948	20.981	VV	75794	1440297	13.46%	0.313%
506	20.985	20.981	21.013	VV	74573	1366588	12.77%	0.297%
507	21.018	21.013	21.022	VV	76694	426128	3.98%	0.092%
508	21.044	21.022	21.052	VV	76644	1335859	12.48%	0.290%
509	21.059	21.052	21.094	VV	78578	1772579	16.57%	0.385%

Instrument :
FID_G
ClientSampleId :
AU-6-042425MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

rteres

510	21.117	21.094	21.127	VV	69929	1368049	12.79%	0.297%
511	21.132	21.127	21.137	VV	70794	413957	3	
512	21.191	21.137	21.220	VV	103887	3891590	36	
513	21.225	21.220	21.244	VV	62365	853434	7	
514	21.267	21.244	21.274	VV	65242	1114626	10	
515	21.279	21.274	21.289	VV	61592	513291	4	
516	21.299	21.289	21.303	VV	64957	538713	5.03%	0.117%
517	21.345	21.303	21.355	VV	67236	1986275	18.56%	0.431%
518	21.364	21.355	21.368	VV	63380	469190	4.39%	0.102%
519	21.375	21.368	21.389	VV	66097	767811	7.18%	0.167%
520	21.393	21.389	21.410	VV	60321	712937	6.66%	0.155%
521	21.415	21.410	21.420	VV	52117	304107	2.84%	0.066%
522	21.428	21.420	21.440	VV	53529	568904	5.32%	0.123%
523	21.448	21.440	21.466	VV	50666	724594	6.77%	0.157%
524	21.472	21.466	21.497	VV	46696	782410	7.31%	0.170%
525	21.502	21.497	21.521	VV	42347	579177	5.41%	0.126%
526	21.532	21.521	21.560	VV	43823	942353	8.81%	0.205%
527	21.564	21.560	21.569	VV	43083	213707	2.00%	0.046%
528	21.609	21.569	21.631	VV	51229	1688862	15.78%	0.367%
529	21.641	21.631	21.655	VV	49622	688631	6.44%	0.149%
530	21.659	21.655	21.670	VV	50511	434356	4.06%	0.094%
531	21.676	21.670	21.688	VV	49114	503968	4.71%	0.109%
532	21.699	21.688	21.706	VV	47137	461974	4.32%	0.100%
533	21.735	21.706	21.782	VV	47329	1928093	18.02%	0.418%
534	21.791	21.782	21.824	VV	40761	826755	7.73%	0.179%
535	21.832	21.824	21.852	VV	34843	524904	4.91%	0.114%
536	21.862	21.852	21.924	VV	28933	922914	8.63%	0.200%
537	21.982	21.924	21.990	VV	32117	888832	8.31%	0.193%
538	22.020	21.990	22.079	VV	31107	1438690	13.45%	0.312%
539	22.110	22.079	22.150	VV	49901	1521404	14.22%	0.330%
540	22.158	22.150	22.177	VV	21373	276888	2.59%	0.060%
541	22.183	22.177	22.194	VV	17245	150247	1.40%	0.033%
542	22.202	22.194	22.219	VV	17378	220340	2.06%	0.048%
543	22.229	22.219	22.245	VV	14720	232950	2.18%	0.051%
544	22.253	22.245	22.267	VV	17779	189284	1.77%	0.041%
545	22.275	22.267	22.289	VV	16133	171820	1.61%	0.037%
546	22.295	22.289	22.327	VV	18422	240076	2.24%	0.052%
547	22.339	22.327	22.368	VV	8337	141422	1.32%	0.031%
548	22.381	22.368	22.400	PBA	5313	138301	1.29%	0.030%

Sum of corrected areas: 460775526

FG042425.M Wed Apr 30 02:14:30 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015777.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 21:13
Operator : YP\AJ
Sample : Q1877-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 01:22:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.007	1648314	14.000	ug/ml
	Target Compounds				
1)	N-OCTANE	1.979	1334217	11.839	ug/ml
2)	N-DECANE	4.505	2136060	19.186	ug/ml
3)	N-DODECANE	6.689	4621905	40.330	ug/mlm
4)	N-TETRADECANE	8.527	6931972	57.207	ug/mlm
5)	N-HEXADECANE	10.144	8110272	64.602	ug/mlm
6)	N-OCTADECANE	11.591	7149030	54.551	ug/mlm
7)	N-EICOSANE	12.904	5862039	43.238	ug/mlm
8)	N-DOCOSANE	14.105	4290830	32.352	ug/ml
10)	N-TETRACOSANE	15.212	2921542	21.985	ug/ml
11)	N-HEXACOSANE	16.236	2545978	19.197	ug/ml
12)	N-OCTACOSANE	17.190	2451607	18.596	ug/ml
13)	N-TRIACONTANE	18.080	2483817	18.631	ug/ml
14)	N-DOTRIACONTANE	18.917	2166001	16.431	ug/ml
15)	N-TETRATRIACONTANE	19.703	1450069	11.990	ug/ml
16)	N-HEXATRIACONTANE	20.449	1150845	10.734	ug/ml
17)	N-OCTATRIACONTANE	21.188	877741	9.112	ug/ml
18)	N-TETRACONTANE	22.119	1012069	11.366	ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015777.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 21:13
Operator : YP\AJ
Sample : Q1877-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

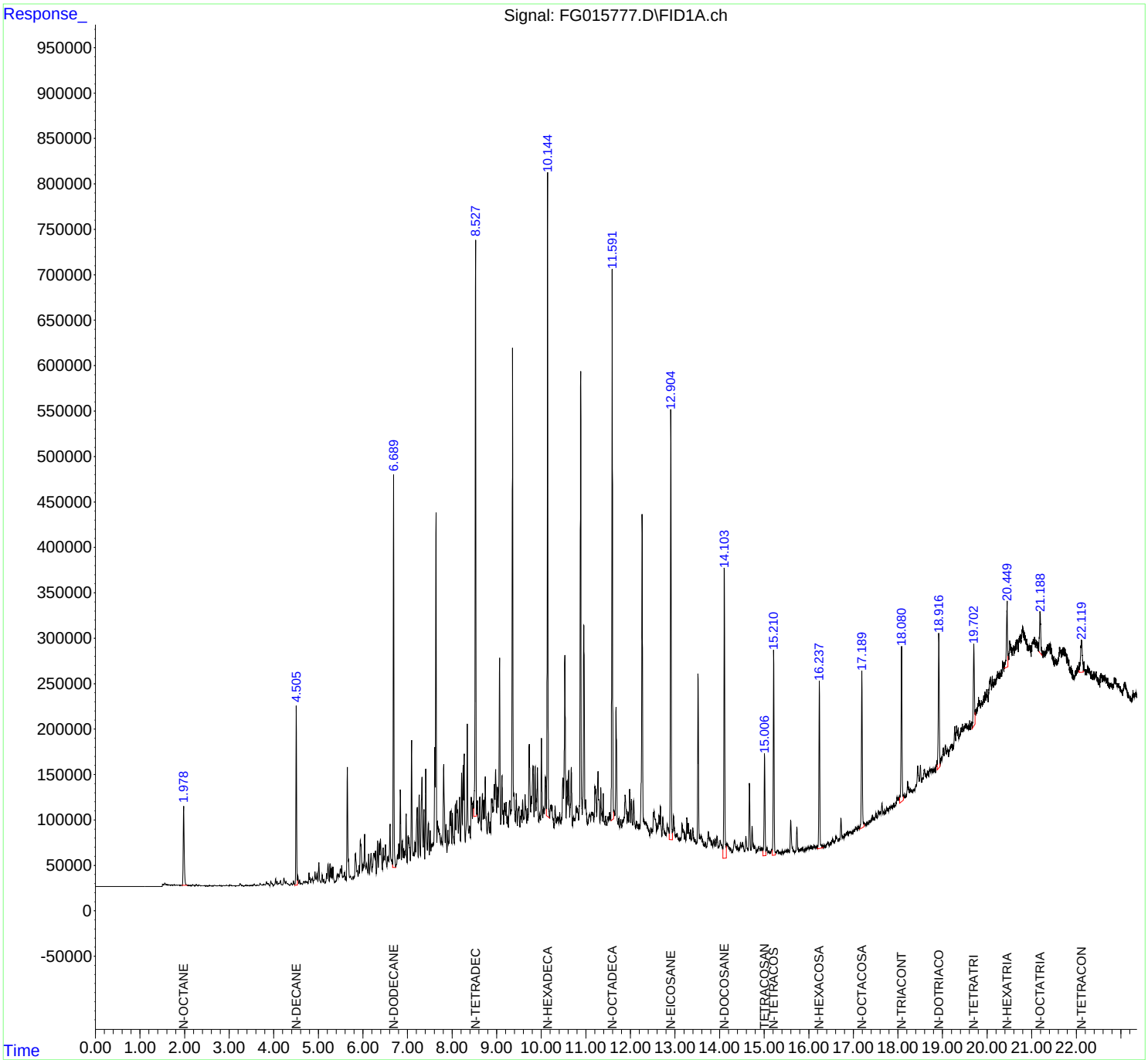
Integration File: autoint1.e
Quant Time: Apr 30 01:22:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025



Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04292
Data File : FG015777.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 21:13
Sample : Q1877-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.925	1.900	1.944	BV	227	2603	0.02%	0.001%
2	1.979	1.944	2.112	PV	87289	1355848	12.77%	0.291%
3	2.116	2.112	2.133	VV	114	450	0.00%	0.000%
4	2.142	2.133	2.148	PV	90	552	0.01%	0.000%
5	2.152	2.148	2.157	VV	132	510	0.00%	0.000%
6	2.161	2.157	2.167	VV	148	464	0.00%	0.000%
7	2.181	2.167	2.230	VV	1272	18263	0.17%	0.004%
8	2.260	2.230	2.298	VV	1656	22382	0.21%	0.005%
9	2.326	2.298	2.381	VV	948	18592	0.18%	0.004%
10	2.391	2.381	2.438	VV	219	3808	0.04%	0.001%
11	2.445	2.438	2.457	VV	392	1089	0.01%	0.000%
12	2.465	2.457	2.482	VV	133	801	0.01%	0.000%
13	2.497	2.482	2.518	PV	127	1378	0.01%	0.000%
14	2.522	2.518	2.533	VV	124	782	0.01%	0.000%
15	2.557	2.533	2.619	VV	434	10555	0.10%	0.002%
16	2.623	2.619	2.645	VV	84	751	0.01%	0.000%
17	2.669	2.645	2.726	PV	737	15456	0.15%	0.003%
18	2.743	2.726	2.750	VV	213	2113	0.02%	0.000%
19	2.756	2.750	2.760	VV	174	799	0.01%	0.000%
20	2.784	2.760	2.821	VV	388	7872	0.07%	0.002%
21	2.824	2.821	2.838	VV	104	739	0.01%	0.000%
22	2.877	2.838	2.908	VV	579	12375	0.12%	0.003%
23	2.915	2.908	2.921	VV	273	1868	0.02%	0.000%
24	2.940	2.921	2.973	VV	982	15971	0.15%	0.003%
25	2.977	2.973	2.985	VV	247	1623	0.02%	0.000%
26	3.021	2.985	3.044	VV	935	19234	0.18%	0.004%
27	3.050	3.044	3.081	VV	452	5457	0.05%	0.001%
28	3.086	3.081	3.092	VV	128	646	0.01%	0.000%
29	3.111	3.092	3.141	VV	171	3301	0.03%	0.001%
30	3.165	3.141	3.181	VV	186	2777	0.03%	0.001%
31	3.203	3.181	3.214	VV	278	3638	0.03%	0.001%
32	3.245	3.214	3.285	VV	2631	49655	0.47%	0.011%
33	3.293	3.285	3.326	VV	396	4898	0.05%	0.001%
34	3.334	3.326	3.340	PV	93	407	0.00%	0.000%
35	3.363	3.340	3.373	VV	446	5202	0.05%	0.001%
36	3.386	3.373	3.407	VV	824	10257	0.10%	0.002%

Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

					rteres			
37	3.417	3.407	3.438	VV	577	6435	0.06%	0.001%
38	3.457	3.438	3.473	VV	417	5633		
39	3.487	3.473	3.508	VV	484	6451		
40	3.528	3.508	3.540	VV	447	5555		
41	3.559	3.540	3.601	VV	1914	31392		
42	3.619	3.601	3.624	VV	590	5420		
43	3.639	3.624	3.656	VV	736	10530	0.10%	0.002%
44	3.661	3.656	3.673	VV	376	3136	0.03%	0.001%
45	3.694	3.673	3.729	VV	2758	49042	0.46%	0.011%
46	3.736	3.729	3.749	VV	862	9585	0.09%	0.002%
47	3.777	3.749	3.808	VV	1824	41659	0.39%	0.009%
48	3.835	3.808	3.853	VV	4125	61134	0.58%	0.013%
49	3.859	3.853	3.870	VV	2224	21849	0.21%	0.005%
50	3.879	3.870	3.910	VV	2200	28157	0.27%	0.006%
51	3.935	3.910	3.958	VV	4969	74495	0.70%	0.016%
52	3.964	3.958	3.996	VV	2234	28104	0.26%	0.006%
53	4.042	3.996	4.059	VV	7413	104385	0.98%	0.022%
54	4.076	4.059	4.095	VV	4981	68241	0.64%	0.015%
55	4.113	4.095	4.132	VV	2543	49130	0.46%	0.011%
56	4.152	4.132	4.175	VV	5579	87154	0.82%	0.019%
57	4.183	4.175	4.198	VV	1001	11648	0.11%	0.002%
58	4.229	4.198	4.258	VV	8266	153332	1.44%	0.033%
59	4.275	4.258	4.303	VV	4570	81850	0.77%	0.018%
60	4.313	4.303	4.332	VV	2193	30700	0.29%	0.007%
61	4.339	4.332	4.360	VV	1269	12495	0.12%	0.003%
62	4.396	4.360	4.422	PV	2638	43192	0.41%	0.009%
63	4.444	4.422	4.470	VV	4548	63880	0.60%	0.014%
64	4.505	4.470	4.531	VV	197201	2135892	20.12%	0.458%
65	4.543	4.531	4.563	VV	9687	114543	1.08%	0.025%
66	4.581	4.563	4.601	VV	5410	69157	0.65%	0.015%
67	4.616	4.601	4.644	VV	1979	30458	0.29%	0.007%
68	4.681	4.644	4.703	VV	3497	80728	0.76%	0.017%
69	4.717	4.703	4.748	VV	3750	74426	0.70%	0.016%
70	4.759	4.748	4.773	VV	2734	29050	0.27%	0.006%
71	4.791	4.773	4.804	VV	12787	136619	1.29%	0.029%
72	4.812	4.804	4.831	VV	6869	69866	0.66%	0.015%
73	4.849	4.831	4.859	VV	5877	74402	0.70%	0.016%
74	4.869	4.859	4.885	VV	6826	76890	0.72%	0.016%
75	4.926	4.885	4.953	VV	13384	261546	2.46%	0.056%
76	4.970	4.953	4.990	VV	11505	162867	1.53%	0.035%
77	5.012	4.990	5.057	VV	23227	348009	3.28%	0.075%
78	5.089	5.057	5.107	VV	9670	129968	1.22%	0.028%
79	5.123	5.107	5.148	VV	4421	57781	0.54%	0.012%
80	5.187	5.148	5.199	VV	11119	133019	1.25%	0.029%
81	5.218	5.199	5.244	VV	20677	331784	3.13%	0.071%
82	5.263	5.244	5.279	VV	21413	242459	2.28%	0.052%
83	5.295	5.279	5.313	VV	16523	222233	2.09%	0.048%
84	5.329	5.313	5.366	VV	17590	229087	2.16%	0.049%
85	5.381	5.366	5.386	VV	1564	11537	0.11%	0.002%
86	5.426	5.386	5.440	VV	9579	169633	1.60%	0.036%
87	5.454	5.440	5.471	VV	9262	135621	1.28%	0.029%
88	5.494	5.471	5.513	VV	14643	276978	2.61%	0.059%
89	5.526	5.513	5.543	VV	18613	223010	2.10%	0.048%

Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

90	5.552	5.543	5.561	VV	6230	61275	0.58%	0.013%
91	5.589	5.561	5.604	VV	10860	177993	1	
92	5.616	5.604	5.627	VV	5516	54276	0	
93	5.651	5.627	5.702	VV	126436	1823202	17	
94	5.717	5.702	5.755	VV	5597	142494	1	
95	5.778	5.755	5.791	VV	5332	85496	0	
96	5.803	5.791	5.810	VV	5617	51712	0.49%	0.011%
97	5.832	5.810	5.867	VV	30903	653712	6.16%	0.140%
98	5.875	5.867	5.893	VV	12123	144238	1.36%	0.031%
99	5.914	5.893	5.925	VV	17250	209960	1.98%	0.045%
100	5.942	5.925	5.953	VV	45409	546624	5.15%	0.117%
101	5.958	5.953	5.987	VV	39818	540119	5.09%	0.116%
102	5.998	5.987	6.008	VV	18234	186866	1.76%	0.040%
103	6.017	6.008	6.021	VV	16975	125533	1.18%	0.027%
104	6.039	6.021	6.068	VV	51466	774238	7.29%	0.166%
105	6.084	6.068	6.113	VV	19250	376239	3.54%	0.081%
106	6.131	6.113	6.148	VV	29277	376388	3.55%	0.081%
107	6.183	6.148	6.203	VV	29935	611046	5.76%	0.131%
108	6.246	6.203	6.256	VV	29651	666484	6.28%	0.143%
109	6.259	6.256	6.272	VV	27493	244793	2.31%	0.052%
110	6.283	6.272	6.302	VV	32259	397917	3.75%	0.085%
111	6.329	6.302	6.347	VV	43021	635265	5.98%	0.136%
112	6.368	6.347	6.382	VV	40217	634361	5.98%	0.136%
113	6.395	6.382	6.438	VV	45147	976823	9.20%	0.209%
114	6.454	6.438	6.467	VV	34992	437718	4.12%	0.094%
115	6.477	6.467	6.486	VV	24505	264024	2.49%	0.057%
116	6.507	6.486	6.539	VV	38578	831076	7.83%	0.178%
117	6.558	6.539	6.583	VV	25151	553178	5.21%	0.119%
118	6.609	6.583	6.643	VV	60759	1173008	11.05%	0.251%
119	6.652	6.643	6.664	VV	21294	243682	2.30%	0.052%
120	6.689	6.664	6.735	VV	445030	5165435	48.65%	1.107%
121	6.750	6.735	6.756	VV	15788	182137	1.72%	0.039%
122	6.775	6.756	6.788	VV	26306	413346	3.89%	0.089%
123	6.805	6.788	6.821	VV	38758	621512	5.85%	0.133%
124	6.841	6.821	6.865	VV	97700	1409506	13.28%	0.302%
125	6.886	6.865	6.903	VV	41623	738608	6.96%	0.158%
126	6.914	6.903	6.927	VV	33001	388289	3.66%	0.083%
127	6.942	6.927	6.953	VV	30188	423762	3.99%	0.091%
128	6.970	6.953	6.992	VV	70628	967132	9.11%	0.207%
129	7.014	6.992	7.024	VV	46855	653419	6.15%	0.140%
130	7.033	7.024	7.065	VV	44859	836874	7.88%	0.179%
131	7.093	7.065	7.127	VV	151375	2317666	21.83%	0.497%
132	7.136	7.127	7.151	VV	26840	367886	3.47%	0.079%
133	7.169	7.151	7.183	VV	38805	635947	5.99%	0.136%
134	7.218	7.183	7.240	VV	77502	1700468	16.02%	0.364%
135	7.262	7.240	7.291	VV	90689	1524352	14.36%	0.327%
136	7.326	7.291	7.353	VV	110257	2451050	23.09%	0.525%
137	7.369	7.353	7.388	VV	74338	986450	9.29%	0.211%
138	7.411	7.388	7.447	VV	118994	2070825	19.51%	0.444%
139	7.469	7.447	7.492	VV	58928	1165835	10.98%	0.250%
140	7.511	7.492	7.527	VV	50518	790969	7.45%	0.169%
141	7.540	7.527	7.550	VV	35487	435817	4.11%	0.093%

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rteres

142	7.563	7.550	7.567	VV	34950	359128	3.38%	0.077%
143	7.578	7.567	7.586	VV	36678	403471	3	
144	7.614	7.586	7.623	VV	142314	1867819	17	
145	7.640	7.623	7.661	VV	399329	4576798	43	
146	7.674	7.661	7.684	VV	61089	728345	6	
147	7.690	7.684	7.700	VV	53457	494947	4	
148	7.707	7.700	7.718	VV	51295	540931	5.10%	0.116%
149	7.725	7.718	7.746	VV	47277	701853	6.61%	0.150%
150	7.761	7.746	7.786	VV	42435	899891	8.48%	0.193%
151	7.812	7.786	7.847	VV	122773	2642470	24.89%	0.566%
152	7.865	7.847	7.887	VV	56805	1032282	9.72%	0.221%
153	7.906	7.887	7.921	VV	49649	778746	7.34%	0.167%
154	7.930	7.921	7.936	VV	36855	323336	3.05%	0.069%
155	7.954	7.936	7.964	VV	70131	932827	8.79%	0.200%
156	7.977	7.964	7.994	VV	71140	1037055	9.77%	0.222%
157	8.010	7.994	8.051	VV	68593	1580556	14.89%	0.339%
158	8.072	8.051	8.087	VV	77246	1255122	11.82%	0.269%
159	8.105	8.087	8.117	VV	82312	1263745	11.90%	0.271%
160	8.123	8.117	8.141	VV	71714	891920	8.40%	0.191%
161	8.168	8.141	8.188	VV	85285	1696356	15.98%	0.363%
162	8.216	8.188	8.233	VV	111399	1881827	17.73%	0.403%
163	8.250	8.233	8.260	VV	120511	1524922	14.36%	0.327%
164	8.272	8.260	8.295	VV	132640	1765552	16.63%	0.378%
165	8.342	8.295	8.377	VV	165046	3549921	33.44%	0.761%
166	8.393	8.377	8.411	VV	53463	988427	9.31%	0.212%
167	8.431	8.411	8.441	VV	84532	1192366	11.23%	0.255%
168	8.445	8.441	8.458	VV	78695	717957	6.76%	0.154%
169	8.473	8.458	8.485	VV	80478	1166492	10.99%	0.250%
170	8.528	8.485	8.550	VV	689875	9426158	88.79%	2.020%
171	8.569	8.550	8.589	VV	80223	1648253	15.53%	0.353%
172	8.600	8.589	8.605	VV	60266	562821	5.30%	0.121%
173	8.624	8.605	8.654	VV	84411	2001006	18.85%	0.429%
174	8.681	8.654	8.698	VV	87764	1831483	17.25%	0.392%
175	8.710	8.698	8.725	VV	80726	1155644	10.89%	0.248%
176	8.745	8.725	8.787	VV	106151	2610041	24.58%	0.559%
177	8.816	8.787	8.840	VV	66213	1731097	16.31%	0.371%
178	8.853	8.840	8.865	VV	56037	747610	7.04%	0.160%
179	8.885	8.865	8.891	VV	81712	1040742	9.80%	0.223%
180	8.899	8.891	8.912	VV	80665	950680	8.95%	0.204%
181	8.920	8.912	8.928	VV	71657	669425	6.31%	0.143%
182	8.949	8.928	8.963	VV	96946	1784690	16.81%	0.382%
183	8.978	8.963	9.000	VV	113513	2009243	18.93%	0.431%
184	9.020	9.000	9.034	VV	93965	1661903	15.65%	0.356%
185	9.067	9.034	9.092	VV	236057	4243512	39.97%	0.909%
186	9.119	9.092	9.135	VV	106154	1954855	18.41%	0.419%
187	9.142	9.135	9.157	VV	67167	808637	7.62%	0.173%
188	9.175	9.157	9.199	VV	74718	1686844	15.89%	0.361%
189	9.214	9.199	9.235	VV	77019	1416341	13.34%	0.303%
190	9.246	9.235	9.263	VV	60765	918405	8.65%	0.197%
191	9.297	9.263	9.314	VV	78019	2074789	19.54%	0.445%
192	9.358	9.314	9.379	VV	574765	8114120	76.43%	1.739%
193	9.385	9.379	9.420	VV	84526	1751896	16.50%	0.375%
194	9.441	9.420	9.465	VV	85500	1817660	17.12%	0.389%

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195	9.500	9.465	9.524	VV	71105	2193165	20.66%	0.470%
196	9.555	9.524	9.568	VV	67204	1574866	14	
197	9.585	9.568	9.608	VV	78370	1580679	14	
198	9.639	9.608	9.674	VV	83830	2593626	24	
199	9.688	9.674	9.701	VV	68665	1012518	9	
200	9.732	9.701	9.763	VV	138987	3398481	32	
201	9.776	9.763	9.787	VV	81651	1083175	10.20%	0.232%
202	9.817	9.787	9.840	VV	112792	2855949	26.90%	0.612%
203	9.864	9.840	9.883	VV	113246	2187945	20.61%	0.469%
204	9.916	9.883	9.946	VV	113013	2976899	28.04%	0.638%
205	9.964	9.946	9.985	VV	62213	1347037	12.69%	0.289%
206	10.006	9.985	10.034	VV	144594	2605122	24.54%	0.558%
207	10.049	10.034	10.069	VV	67268	1343125	12.65%	0.288%
208	10.093	10.069	10.116	VV	101644	2341930	22.06%	0.502%
209	10.143	10.116	10.188	VV	767484	10616589	100.00%	2.275%
210	10.213	10.188	10.232	VV	70395	1724511	16.24%	0.370%
211	10.242	10.232	10.286	VV	70057	1844993	17.38%	0.395%
212	10.312	10.286	10.341	VV	69112	1898023	17.88%	0.407%
213	10.353	10.341	10.360	VV	55308	606999	5.72%	0.130%
214	10.372	10.360	10.397	VV	56893	1180760	11.12%	0.253%
215	10.413	10.397	10.435	VV	61804	1298673	12.23%	0.278%
216	10.487	10.435	10.501	VV	99804	2757076	25.97%	0.591%
217	10.530	10.501	10.557	VV	234265	4482797	42.22%	0.961%
218	10.579	10.557	10.600	VV	95752	1986244	18.71%	0.426%
219	10.618	10.600	10.639	VV	106640	1910705	18.00%	0.409%
220	10.674	10.639	10.702	VV	110522	2778041	26.17%	0.595%
221	10.724	10.702	10.738	VV	55946	1133483	10.68%	0.243%
222	10.746	10.738	10.754	VV	53735	501749	4.73%	0.108%
223	10.784	10.754	10.802	VV	66751	1748030	16.47%	0.375%
224	10.811	10.802	10.839	VV	65215	1317156	12.41%	0.282%
225	10.885	10.839	10.922	VV	547336	8603791	81.04%	1.843%
226	10.955	10.922	10.982	VV	265616	5006884	47.16%	1.073%
227	10.998	10.982	11.048	VV	73340	2319849	21.85%	0.497%
228	11.078	11.048	11.087	VV	56649	1262825	11.89%	0.271%
229	11.093	11.087	11.109	VV	57630	699809	6.59%	0.150%
230	11.134	11.109	11.178	VV	59616	2345734	22.09%	0.503%
231	11.206	11.178	11.242	VV	87273	2771442	26.10%	0.594%
232	11.274	11.242	11.317	VV	103036	3349074	31.55%	0.718%
233	11.337	11.317	11.372	VV	85882	2133362	20.09%	0.457%
234	11.390	11.372	11.425	VV	79532	1832583	17.26%	0.393%
235	11.444	11.425	11.471	VV	54373	1369807	12.90%	0.294%
236	11.496	11.471	11.514	VV	53521	1292063	12.17%	0.277%
237	11.537	11.514	11.558	VV	58562	1435633	13.52%	0.308%
238	11.591	11.558	11.624	VV	655975	9111345	85.82%	1.952%
239	11.631	11.624	11.649	VV	60072	868121	8.18%	0.186%
240	11.679	11.649	11.722	VV	172532	3916116	36.89%	0.839%
241	11.745	11.722	11.763	VV	51556	1153098	10.86%	0.247%
242	11.783	11.763	11.805	VV	49978	1159469	10.92%	0.248%
243	11.881	11.805	11.925	VV	75915	3970843	37.40%	0.851%
244	11.944	11.925	11.962	VV	57890	1133032	10.67%	0.243%
245	11.983	11.962	12.006	VV	81998	1672481	15.75%	0.358%
246	12.023	12.006	12.049	VV	71455	1445443	13.61%	0.310%

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247	12.072	12.049	12.115	VV	69100	2017856	19.01%	0.432%
248	12.140	12.115	12.178	VV	46259	1591037	14	
249	12.198	12.178	12.214	VV	43242	880612	8	
250	12.262	12.214	12.288	VV	383178	6243545	58	
251	12.293	12.288	12.321	VV	48522	919457	8	
252	12.329	12.321	12.335	VV	45465	378036	3	
253	12.343	12.335	12.358	VV	45457	596649	5.62%	0.128%
254	12.364	12.358	12.382	VV	43185	608768	5.73%	0.130%
255	12.386	12.382	12.433	VV	40721	1084301	10.21%	0.232%
256	12.460	12.433	12.481	VV	38411	1015639	9.57%	0.218%
257	12.490	12.481	12.498	VV	35914	340239	3.20%	0.073%
258	12.516	12.498	12.524	VV	55009	736669	6.94%	0.158%
259	12.531	12.524	12.585	VV	56594	1736723	16.36%	0.372%
260	12.597	12.585	12.612	VV	42418	651145	6.13%	0.140%
261	12.640	12.612	12.656	VV	51378	1164552	10.97%	0.250%
262	12.673	12.656	12.707	VV	61683	1332466	12.55%	0.286%
263	12.726	12.707	12.796	VV	49309	1917668	18.06%	0.411%
264	12.825	12.796	12.868	VV	41314	1523354	14.35%	0.326%
265	12.904	12.868	12.945	VV	494952	6966793	65.62%	1.493%
266	12.966	12.945	13.010	VV	50492	1460673	13.76%	0.313%
267	13.020	13.010	13.036	VV	29105	438464	4.13%	0.094%
268	13.046	13.036	13.105	VV	31190	1057799	9.96%	0.227%
269	13.120	13.105	13.132	VV	25525	388118	3.66%	0.083%
270	13.156	13.132	13.185	VV	41354	1063191	10.01%	0.228%
271	13.191	13.185	13.211	VV	32897	461967	4.35%	0.099%
272	13.222	13.211	13.243	VV	30544	494047	4.65%	0.106%
273	13.265	13.243	13.281	VV	47579	813333	7.66%	0.174%
274	13.297	13.281	13.335	VV	40761	1032521	9.73%	0.221%
275	13.350	13.335	13.366	VV	33874	526657	4.96%	0.113%
276	13.398	13.366	13.431	VV	35296	1043739	9.83%	0.224%
277	13.436	13.431	13.439	VV	21066	104572	0.98%	0.022%
278	13.450	13.439	13.480	VV	22829	498432	4.69%	0.107%
279	13.516	13.480	13.545	VV	203969	2981402	28.08%	0.639%
280	13.554	13.545	13.572	VV	26645	396877	3.74%	0.085%
281	13.587	13.572	13.650	VV	26451	995006	9.37%	0.213%
282	13.655	13.650	13.663	VV	16272	119579	1.13%	0.026%
283	13.683	13.663	13.707	VV	18297	407795	3.84%	0.087%
284	13.750	13.707	13.770	VV	30106	841628	7.93%	0.180%
285	13.793	13.770	13.811	VV	22909	505657	4.76%	0.108%
286	13.824	13.811	13.843	VV	19379	329696	3.11%	0.071%
287	13.862	13.843	13.878	VV	21172	370387	3.49%	0.079%
288	13.897	13.878	13.919	VV	22094	445008	4.19%	0.095%
289	13.943	13.919	13.978	VV	24381	632614	5.96%	0.136%
290	13.984	13.978	13.990	VV	13434	101008	0.95%	0.022%
291	14.013	13.990	14.034	VV	20025	444130	4.18%	0.095%
292	14.040	14.034	14.073	VV	15175	303259	2.86%	0.065%
293	14.105	14.073	14.152	VV	320915	4286782	40.38%	0.919%
294	14.161	14.152	14.209	VV	16323	468126	4.41%	0.100%
295	14.220	14.209	14.240	VV	11907	195222	1.84%	0.042%
296	14.246	14.240	14.270	VV	9904	155015	1.46%	0.033%
297	14.289	14.270	14.294	VV	7962	94392	0.89%	0.020%
298	14.336	14.294	14.362	VV	18309	559010	5.27%	0.120%
299	14.372	14.362	14.382	VV	11763	130066	1.23%	0.028%

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300	14.402	14.382	14.424	VV	11908	239697	2.26%	0.051%
301	14.435	14.424	14.447	VV	9549	122095	1	
302	14.466	14.447	14.483	VV	16490	262847	2	
303	14.515	14.483	14.560	VV	16024	522295	4	
304	14.589	14.560	14.641	VV	22802	583310	5	
305	14.669	14.641	14.700	VV	80961	1188027	11	
306	14.728	14.700	14.755	VV	33199	590838	5.57%	0.127%
307	14.759	14.755	14.782	VV	12716	171714	1.62%	0.037%
308	14.793	14.782	14.825	VV	10394	205370	1.93%	0.044%
309	14.846	14.825	14.855	VV	6988	108217	1.02%	0.023%
310	14.878	14.855	14.905	VV	10206	236282	2.23%	0.051%
311	14.924	14.905	14.935	VV	8633	134405	1.27%	0.029%
312	14.942	14.935	14.947	VV	7738	48763	0.46%	0.010%
313	14.958	14.947	14.973	VV	7568	107915	1.02%	0.023%
314	15.007	14.973	15.039	VV	111532	1648309	15.53%	0.353%
315	15.065	15.039	15.084	VV	8633	173483	1.63%	0.037%
316	15.093	15.084	15.122	VV	4580	79510	0.75%	0.017%
317	15.139	15.122	15.147	VV	4360	47736	0.45%	0.010%
318	15.173	15.147	15.180	VV	6622	103853	0.98%	0.022%
319	15.212	15.180	15.252	VV	224230	2921539	27.52%	0.626%
320	15.259	15.252	15.266	VV	3490	26975	0.25%	0.006%
321	15.272	15.266	15.279	VV	3346	22477	0.21%	0.005%
322	15.306	15.279	15.334	VV	5030	123158	1.16%	0.026%
323	15.346	15.334	15.354	VV	2429	25107	0.24%	0.005%
324	15.357	15.354	15.382	VV	2249	27380	0.26%	0.006%
325	15.406	15.382	15.427	PV	4659	61839	0.58%	0.013%
326	15.456	15.427	15.461	VV	2928	42478	0.40%	0.009%
327	15.466	15.461	15.472	VV	2968	16639	0.16%	0.004%
328	15.490	15.472	15.507	VV	4243	70390	0.66%	0.015%
329	15.522	15.507	15.532	VV	3791	43709	0.41%	0.009%
330	15.550	15.532	15.567	VV	4228	60627	0.57%	0.013%
331	15.594	15.567	15.662	VV	36137	695687	6.55%	0.149%
332	15.665	15.662	15.681	VV	2274	17693	0.17%	0.004%
333	15.732	15.681	15.778	VV	28448	460585	4.34%	0.099%
334	15.786	15.778	15.800	VV	2446	28776	0.27%	0.006%
335	15.804	15.800	15.815	VV	2049	15522	0.15%	0.003%
336	15.831	15.815	15.846	VV	3924	56800	0.54%	0.012%
337	15.865	15.846	15.898	VV	3726	64214	0.60%	0.014%
338	15.920	15.898	15.937	PV	2383	40486	0.38%	0.009%
339	15.950	15.937	15.965	VV	3252	40827	0.38%	0.009%
340	15.996	15.965	16.020	VV	4125	98270	0.93%	0.021%
341	16.033	16.020	16.038	VV	3284	28047	0.26%	0.006%
342	16.055	16.038	16.087	VV	4428	82921	0.78%	0.018%
343	16.122	16.087	16.145	VV	4118	91943	0.87%	0.020%
344	16.151	16.145	16.162	VV	2493	22907	0.22%	0.005%
345	16.170	16.162	16.185	VV	2819	32108	0.30%	0.007%
346	16.191	16.185	16.197	VV	2417	14419	0.14%	0.003%
347	16.236	16.197	16.320	VV	184672	2545978	23.98%	0.546%
348	16.337	16.320	16.351	VV	1935	23897	0.23%	0.005%
349	16.358	16.351	16.366	VV	2093	13753	0.13%	0.003%
350	16.369	16.366	16.387	VV	1588	13685	0.13%	0.003%
351	16.428	16.387	16.467	PV	4354	118658	1.12%	0.025%

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352	16.490	16.467	16.501	VV	1739	23793	0.22%	0.005%
353	16.536	16.501	16.572	VV	5701	134730	[illegible]	
354	16.615	16.572	16.657	VV	6757	181468	[illegible]	
355	16.679	16.657	16.694	PV	3258	40013	[illegible]	
356	16.721	16.694	16.747	VV	23780	351138	[illegible]	
357	16.753	16.747	16.760	VV	2999	21889	[illegible]	
358	16.764	16.760	16.785	VV	2970	26667	0.25%	0.006%
359	16.815	16.785	16.824	VV	3650	61562	0.58%	0.013%
360	16.851	16.824	16.898	VV	4959	138555	1.31%	0.030%
361	16.905	16.898	16.912	VV	3191	19847	0.19%	0.004%
362	16.920	16.912	16.967	VV	3935	76211	0.72%	0.016%
363	16.992	16.967	17.001	PV	2023	24781	0.23%	0.005%
364	17.019	17.001	17.025	VV	3332	28432	0.27%	0.006%
365	17.048	17.025	17.087	VV	5558	105496	0.99%	0.023%
366	17.112	17.087	17.133	VV	3677	62604	0.59%	0.013%
367	17.190	17.133	17.240	PV	170296	2451607	23.09%	0.525%
368	17.243	17.240	17.274	VV	3933	48774	0.46%	0.010%
369	17.279	17.274	17.284	VV	2260	8617	0.08%	0.002%
370	17.288	17.284	17.291	VV	1090	3074	0.03%	0.001%
371	17.320	17.291	17.326	VV	1975	31831	0.30%	0.007%
372	17.333	17.326	17.340	VV	814	5067	0.05%	0.001%
373	17.360	17.340	17.378	PV	2789	34123	0.32%	0.007%
374	17.388	17.378	17.394	VV	2484	16295	0.15%	0.003%
375	17.427	17.394	17.450	VV	7512	116009	1.09%	0.025%
376	17.473	17.450	17.482	VV	2152	33191	0.31%	0.007%
377	17.505	17.482	17.533	VV	7166	113517	1.07%	0.024%
378	17.559	17.533	17.588	VV	6510	134099	1.26%	0.029%
379	17.601	17.588	17.617	VV	6324	76029	0.72%	0.016%
380	17.641	17.617	17.668	VV	14031	225753	2.13%	0.048%
381	17.676	17.668	17.681	VV	3279	23114	0.22%	0.005%
382	17.684	17.681	17.699	VV	3150	21278	0.20%	0.005%
383	17.719	17.699	17.728	VV	3900	40001	0.38%	0.009%
384	17.752	17.728	17.765	PV	5211	72697	0.68%	0.016%
385	17.770	17.765	17.787	VV	4491	30159	0.28%	0.006%
386	17.811	17.787	17.817	VV	4966	54617	0.51%	0.012%
387	17.820	17.817	17.830	VV	4308	27219	0.26%	0.006%
388	17.846	17.830	17.869	VV	4347	73752	0.69%	0.016%
389	17.880	17.869	17.885	VV	3277	21311	0.20%	0.005%
390	17.908	17.885	17.927	VV	5995	76278	0.72%	0.016%
391	17.931	17.927	17.935	VV	2568	8682	0.08%	0.002%
392	17.979	17.935	17.986	VV	10080	157044	1.48%	0.034%
393	17.990	17.986	17.999	VV	8710	57081	0.54%	0.012%
394	18.010	17.999	18.017	VV	8822	79763	0.75%	0.017%
395	18.035	18.017	18.040	VV	8678	106866	1.01%	0.023%
396	18.080	18.040	18.123	VV	172492	2584458	24.34%	0.554%
397	18.128	18.123	18.135	VV	7278	46667	0.44%	0.010%
398	18.139	18.135	18.165	VV	7449	92926	0.88%	0.020%
399	18.176	18.165	18.191	VV	7394	85180	0.80%	0.018%
400	18.218	18.191	18.237	VV	20278	353555	3.33%	0.076%
401	18.243	18.237	18.263	VV	12765	145272	1.37%	0.031%
402	18.273	18.263	18.289	VV	9775	127283	1.20%	0.027%
403	18.305	18.289	18.316	VV	7625	110495	1.04%	0.024%
404	18.320	18.316	18.335	VV	6470	60639	0.57%	0.013%

Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

					rteres			
405	18.349	18.335	18.364	VV	6867	100157	0.94%	0.021%
406	18.365	18.364	18.375	VV	6238	35578		
407	18.444	18.375	18.477	VV	28897	891749		
408	18.504	18.477	18.529	VV	28718	564689		
409	18.533	18.529	18.540	VV	12190	78344		
410	18.591	18.540	18.614	VV	21728	702699		
411	18.621	18.614	18.639	VV	14999	204533	1.93%	0.044%
412	18.662	18.639	18.694	VV	17803	466674	4.40%	0.100%
413	18.713	18.694	18.735	VV	18579	386622	3.64%	0.083%
414	18.753	18.735	18.757	VV	16705	203210	1.91%	0.044%
415	18.767	18.757	18.777	VV	16307	175690	1.65%	0.038%
416	18.786	18.777	18.804	VV	15686	228301	2.15%	0.049%
417	18.809	18.804	18.818	VV	14659	107015	1.01%	0.023%
418	18.837	18.818	18.843	VV	15406	213819	2.01%	0.046%
419	18.875	18.843	18.883	VV	22106	427480	4.03%	0.092%
420	18.917	18.883	18.944	VV	160221	2629839	24.77%	0.563%
421	18.949	18.944	18.954	VV	18955	98151	0.92%	0.021%
422	18.984	18.954	18.992	VV	22309	466001	4.39%	0.100%
423	19.019	18.992	19.032	VV	31732	646368	6.09%	0.138%
424	19.065	19.032	19.087	VV	33730	895933	8.44%	0.192%
425	19.093	19.087	19.099	VV	25504	181729	1.71%	0.039%
426	19.109	19.099	19.135	VV	27784	543699	5.12%	0.116%
427	19.167	19.135	19.172	VV	28113	524359	4.94%	0.112%
428	19.202	19.172	19.207	VV	29281	577017	5.44%	0.124%
429	19.211	19.207	19.221	VV	28197	230458	2.17%	0.049%
430	19.234	19.221	19.247	VV	27408	376604	3.55%	0.081%
431	19.273	19.247	19.295	VV	47127	1035422	9.75%	0.222%
432	19.316	19.295	19.338	VV	46648	1014884	9.56%	0.217%
433	19.352	19.338	19.365	VV	42707	618477	5.83%	0.133%
434	19.384	19.365	19.390	VV	35306	473812	4.46%	0.102%
435	19.418	19.390	19.427	VV	40674	845706	7.97%	0.181%
436	19.445	19.427	19.459	VV	44475	755232	7.11%	0.162%
437	19.475	19.459	19.485	VV	40582	611578	5.76%	0.131%
438	19.490	19.485	19.502	VV	41033	400030	3.77%	0.086%
439	19.510	19.502	19.515	VV	43318	327482	3.08%	0.070%
440	19.522	19.515	19.537	VV	41634	514768	4.85%	0.110%
441	19.545	19.537	19.551	VV	41675	319838	3.01%	0.069%
442	19.554	19.551	19.561	VV	38379	222140	2.09%	0.048%
443	19.566	19.561	19.572	VV	38525	245369	2.31%	0.053%
444	19.580	19.572	19.590	VV	38786	406960	3.83%	0.087%
445	19.608	19.590	19.624	VV	42894	735529	6.93%	0.158%
446	19.629	19.624	19.632	VV	36932	184647	1.74%	0.040%
447	19.653	19.632	19.665	VV	39291	734478	6.92%	0.157%
448	19.703	19.665	19.727	VV	124614	2703402	25.46%	0.579%
449	19.733	19.727	19.744	VV	51140	484803	4.57%	0.104%
450	19.747	19.744	19.753	VV	49337	258817	2.44%	0.055%
451	19.760	19.753	19.772	VV	51134	551182	5.19%	0.118%
452	19.808	19.772	19.829	VV	62906	1842307	17.35%	0.395%
453	19.832	19.829	19.841	VV	58107	412375	3.88%	0.088%
454	19.848	19.841	19.853	VV	54465	369210	3.48%	0.079%
455	19.877	19.853	19.894	VV	55330	1290352	12.15%	0.276%
456	19.901	19.894	19.907	VV	53879	423611	3.99%	0.091%

Instrument :
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AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

rteres

457	19.909	19.907	19.912	VV	53076	161076	1.52%	0.035%
458	19.923	19.912	19.929	VV	61084	560877	5	
459	19.934	19.929	19.943	VV	58332	479092	4	
460	19.954	19.943	19.970	VV	63071	922686	8	
461	20.000	19.970	20.023	VV	64968	1885314	17	
462	20.067	20.023	20.072	VV	72872	1906565	17	
463	20.080	20.072	20.097	VV	76274	1065326	10.03%	0.228%
464	20.116	20.097	20.121	VV	75526	974946	9.18%	0.209%
465	20.124	20.121	20.135	VV	72354	591200	5.57%	0.127%
466	20.163	20.135	20.178	VV	70564	1714054	16.15%	0.367%
467	20.184	20.178	20.194	VV	69660	634877	5.98%	0.136%
468	20.217	20.194	20.225	VV	73340	1320042	12.43%	0.283%
469	20.236	20.225	20.248	VV	77407	988019	9.31%	0.212%
470	20.275	20.248	20.290	VV	74668	1809269	17.04%	0.388%
471	20.295	20.290	20.300	VV	73334	428995	4.04%	0.092%
472	20.318	20.300	20.331	VV	76290	1353851	12.75%	0.290%
473	20.346	20.331	20.376	VV	85705	2129804	20.06%	0.456%
474	20.384	20.376	20.389	VV	80055	616060	5.80%	0.132%
475	20.449	20.389	20.468	VV	146208	4714797	44.41%	1.010%
476	20.471	20.468	20.478	VV	90010	522536	4.92%	0.112%
477	20.509	20.478	20.524	VV	101881	2537618	23.90%	0.544%
478	20.527	20.524	20.534	VV	97957	573263	5.40%	0.123%
479	20.545	20.534	20.567	VV	94658	1793122	16.89%	0.384%
480	20.588	20.567	20.601	VV	94656	1868433	17.60%	0.400%
481	20.640	20.601	20.646	VV	96524	2416039	22.76%	0.518%
482	20.671	20.646	20.684	VV	98332	2144923	20.20%	0.460%
483	20.691	20.684	20.701	VV	96626	928547	8.75%	0.199%
484	20.714	20.701	20.719	VV	98710	1037021	9.77%	0.222%
485	20.728	20.719	20.735	VV	100512	954980	9.00%	0.205%
486	20.748	20.735	20.762	VV	101636	1556050	14.66%	0.333%
487	20.797	20.762	20.817	VV	108050	3370903	31.75%	0.722%
488	20.826	20.817	20.835	VV	103273	1057417	9.96%	0.227%
489	20.841	20.835	20.880	VV	100487	2537929	23.91%	0.544%
490	20.886	20.880	20.897	VV	92737	882961	8.32%	0.189%
491	20.907	20.897	20.914	VV	86118	845636	7.97%	0.181%
492	20.923	20.914	20.933	VV	82857	926648	8.73%	0.199%
493	20.942	20.933	20.968	VV	83431	1683896	15.86%	0.361%
494	20.975	20.968	20.987	VV	82825	845576	7.96%	0.181%
495	20.998	20.987	21.003	VV	81269	778250	7.33%	0.167%
496	21.017	21.003	21.027	VV	85662	1181075	11.12%	0.253%
497	21.032	21.027	21.052	VV	86929	1244427	11.72%	0.267%
498	21.060	21.052	21.065	VV	88880	701696	6.61%	0.150%
499	21.070	21.065	21.082	VV	88504	857469	8.08%	0.184%
500	21.106	21.082	21.118	VV	84751	1721434	16.21%	0.369%
501	21.125	21.118	21.142	VV	82366	1098055	10.34%	0.235%
502	21.148	21.142	21.160	VV	79889	845310	7.96%	0.181%
503	21.188	21.160	21.240	VV	111670	4064010	38.28%	0.871%
504	21.249	21.240	21.258	VV	68260	701399	6.61%	0.150%
505	21.265	21.258	21.291	VV	65826	1272708	11.99%	0.273%
506	21.312	21.291	21.317	VV	65799	982054	9.25%	0.210%
507	21.356	21.317	21.364	VV	71264	1855929	17.48%	0.398%
508	21.368	21.364	21.381	VV	70193	682847	6.43%	0.146%
509	21.394	21.381	21.414	VV	71462	1315537	12.39%	0.282%

Instrument :
FID_G
ClientSampleId :
AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

rteres

510	21.425	21.414	21.463	VV	69192	1801424	16.97%	0.386%
511	21.468	21.463	21.490	VV	56081	864093	8	
512	21.499	21.490	21.508	VV	53969	513996	4	
513	21.513	21.508	21.527	VV	49501	541535	5	
514	21.535	21.527	21.567	VV	49494	1122242	10	
515	21.577	21.567	21.589	VV	46030	573779	5	
516	21.631	21.589	21.638	VV	60054	1562975	14.72%	0.335%
517	21.645	21.638	21.654	VV	55857	523686	4.93%	0.112%
518	21.658	21.654	21.663	VV	55521	274409	2.58%	0.059%
519	21.673	21.663	21.682	VV	54877	606466	5.71%	0.130%
520	21.699	21.682	21.705	VV	56848	721585	6.80%	0.155%
521	21.718	21.705	21.725	VV	56485	653403	6.15%	0.140%
522	21.735	21.725	21.748	VV	55708	694147	6.54%	0.149%
523	21.752	21.748	21.759	VV	54038	356285	3.36%	0.076%
524	21.768	21.759	21.779	VV	48924	543200	5.12%	0.116%
525	21.784	21.779	21.799	VV	43788	496479	4.68%	0.106%
526	21.809	21.799	21.822	VV	42241	545459	5.14%	0.117%
527	21.827	21.822	21.833	VV	39232	231885	2.18%	0.050%
528	21.838	21.833	21.873	VV	38688	716426	6.75%	0.154%
529	21.884	21.873	21.891	VV	31115	286814	2.70%	0.061%
530	21.897	21.891	21.910	VV	28323	267661	2.52%	0.057%
531	21.920	21.910	21.930	VV	25954	257257	2.42%	0.055%
532	21.936	21.930	21.948	VV	19949	176389	1.66%	0.038%
533	21.952	21.948	21.957	VV	18181	90344	0.85%	0.019%
534	21.987	21.957	21.999	VV	23577	481300	4.53%	0.103%
535	22.008	21.999	22.019	VV	24409	252632	2.38%	0.054%
536	22.027	22.019	22.037	VV	26899	252650	2.38%	0.054%
537	22.060	22.037	22.066	VV	29577	390722	3.68%	0.084%
538	22.120	22.066	22.159	VV	52103	1977763	18.63%	0.424%
539	22.174	22.159	22.204	VV	26447	500445	4.71%	0.107%
540	22.210	22.204	22.220	VV	17116	141393	1.33%	0.030%
541	22.225	22.220	22.244	VV	15105	195353	1.84%	0.042%
542	22.256	22.244	22.266	VV	19165	203868	1.92%	0.044%
543	22.270	22.266	22.292	VV	16548	219729	2.07%	0.047%
544	22.299	22.292	22.327	VV	14171	223272	2.10%	0.048%
545	22.339	22.327	22.367	VV	11834	132846	1.25%	0.028%
546	22.371	22.367	22.378	VV	6008	22986	0.22%	0.005%
547	22.389	22.378	22.400	PBA	8585	165893	1.56%	0.036%
			Sum of corrected areas:			466710168		

FG042425.M Wed Apr 30 02:15:07 2025

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
PB167783BS		FG015774.D	FG042925	N-DOTRIACONTANE	mohammad	5/2/2025 3:02:56 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-DOCOSANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-EICOSANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-HEXADECANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-OCTADECANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-TETRADECANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-DODECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-EICOSANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-HEXADECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-OCTADECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-TETRACONTANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-TETRADECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1907-01		FG015778.D	FG042925	TETRACOSANE-d50 (SURROGA	mohammad	5/2/2025 3:03:05 AM	Peak Integrated by Software incorrectly
Q1877-01		FG015779.D	FG042925	TETRACOSANE-d50 (SURROGA	mohammad	5/2/2025 3:03:09 AM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG042425

Review By	yogesh	Review On	4/24/2025 12:59:08 PM		
Supervise By	mohammad	Supervise On	4/26/2025 2:19:49 AM		
SubDirectory	FG042425	HP Acquire Method		HP Processing Method	FG042425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015754.D	24 Apr 2025 09:50	YP\AJ	Ok
2	I.BLK	FG015755.D	24 Apr 2025 10:19	YP\AJ	Ok
3	100 TRPH STD	FG015756.D	24 Apr 2025 10:48	YP\AJ	Ok
4	50 TRPH STD	FG015757.D	24 Apr 2025 11:17	YP\AJ	Ok
5	20 TRPH STD	FG015758.D	24 Apr 2025 11:46	YP\AJ	Ok
6	10 TRPH STD	FG015759.D	24 Apr 2025 12:16	YP\AJ	Ok
7	5 TRPH STD	FG015760.D	24 Apr 2025 12:45	YP\AJ	Ok
8	FG042225ICV	FG015761.D	24 Apr 2025 13:14	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG042925

Review By	yogesh	Review On	4/29/2025 2:41:54 PM		
Supervise By	mohammad	Supervise On	5/2/2025 3:03:36 AM		
SubDirectory	FG042925	HP Acquire Method		HP Processing Method	FG042425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015762.D	29 Apr 2025 11:55	YP\AJ	Ok
2	I.BLK	FG015763.D	29 Apr 2025 12:24	YP\AJ	Ok
3	50 PPM TRPH STD	FG015764.D	29 Apr 2025 12:53	YP\AJ	Ok
4	RT MARKER	FG015765.D	29 Apr 2025 13:52	YP\AJ	Ok
5	Q1901-02	FG015766.D	29 Apr 2025 14:51	YP\AJ	Ok
6	Q1901-03	FG015767.D	29 Apr 2025 15:20	YP\AJ	Ok
7	Q1901-04	FG015768.D	29 Apr 2025 15:49	YP\AJ	Ok
8	Q1901-05	FG015769.D	29 Apr 2025 16:19	YP\AJ	Ok
9	Q1907-01	FG015770.D	29 Apr 2025 16:48	YP\AJ	Dilution
10	I.BLK	FG015771.D	29 Apr 2025 17:17	YP\AJ	Ok
11	50 PPM TRPH STD	FG015772.D	29 Apr 2025 18:16	YP\AJ	Ok
12	PB167783BL	FG015773.D	29 Apr 2025 19:15	YP\AJ	Ok
13	PB167783BS	FG015774.D	29 Apr 2025 19:44	YP\AJ	Ok,M
14	Q1877-01	FG015775.D	29 Apr 2025 20:14	YP\AJ	Dilution
15	Q1877-01MS	FG015776.D	29 Apr 2025 20:43	YP\AJ	Ok,M
16	Q1877-01MSD	FG015777.D	29 Apr 2025 21:13	YP\AJ	Ok,M
17	Q1907-01	FG015778.D	29 Apr 2025 21:42	YP\AJ	Ok,M
18	Q1877-01	FG015779.D	29 Apr 2025 22:11	YP\AJ	Ok,M
19	I.BLK	FG015780.D	29 Apr 2025 22:41	YP\AJ	Ok
20	50 PPM TRPH STD	FG015781.D	29 Apr 2025 23:40	YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG042425

Review By	yogesh	Review On	4/24/2025 12:59:08 PM		
Supervise By	mohammad	Supervise On	4/26/2025 2:19:49 AM		
SubDirectory	FG042425	HP Acquire Method		HP Processing Method	FG042425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015754.D	24 Apr 2025 09:50		YP\AJ	Ok
2	I.BLK		FG015755.D	24 Apr 2025 10:19		YP\AJ	Ok
3	100 TRPH STD		FG015756.D	24 Apr 2025 10:48		YP\AJ	Ok
4	50 TRPH STD		FG015757.D	24 Apr 2025 11:17		YP\AJ	Ok
5	20 TRPH STD		FG015758.D	24 Apr 2025 11:46		YP\AJ	Ok
6	10 TRPH STD		FG015759.D	24 Apr 2025 12:16		YP\AJ	Ok
7	5 TRPH STD		FG015760.D	24 Apr 2025 12:45		YP\AJ	Ok
8	FG042225ICV		FG015761.D	24 Apr 2025 13:14		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG042925

Review By	yogesh	Review On	4/29/2025 2:41:54 PM		
Supervise By	mohammad	Supervise On	5/2/2025 3:03:36 AM		
SubDirectory	FG042925	HP Acquire Method		HP Processing Method	FG042425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015762.D	29 Apr 2025 11:55		YP\AJ	Ok
2	I.BLK		FG015763.D	29 Apr 2025 12:24		YP\AJ	Ok
3	50 PPM TRPH STD		FG015764.D	29 Apr 2025 12:53		YP\AJ	Ok
4	RT MARKER		FG015765.D	29 Apr 2025 13:52		YP\AJ	Ok
5	Q1901-02		FG015766.D	29 Apr 2025 14:51		YP\AJ	Ok
6	Q1901-03		FG015767.D	29 Apr 2025 15:20		YP\AJ	Ok
7	Q1901-04		FG015768.D	29 Apr 2025 15:49		YP\AJ	Ok
8	Q1901-05		FG015769.D	29 Apr 2025 16:19		YP\AJ	Ok
9	Q1907-01		FG015770.D	29 Apr 2025 16:48	need 10x dilution	YP\AJ	Dilution
10	I.BLK		FG015771.D	29 Apr 2025 17:17		YP\AJ	Ok
11	50 PPM TRPH STD		FG015772.D	29 Apr 2025 18:16		YP\AJ	Ok
12	PB167783BL		FG015773.D	29 Apr 2025 19:15		YP\AJ	Ok
13	PB167783BS		FG015774.D	29 Apr 2025 19:44		YP\AJ	Ok,M
14	Q1877-01		FG015775.D	29 Apr 2025 20:14	need 10x dilution	YP\AJ	Dilution
15	Q1877-01MS		FG015776.D	29 Apr 2025 20:43		YP\AJ	Ok,M
16	Q1877-01MSD		FG015777.D	29 Apr 2025 21:13		YP\AJ	Ok,M
17	Q1907-01		FG015778.D	29 Apr 2025 21:42		YP\AJ	Ok,M
18	Q1877-01		FG015779.D	29 Apr 2025 22:11		YP\AJ	Ok,M

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG042925

Review By	yogesh	Review On	4/29/2025 2:41:54 PM		
Supervise By	mohammad	Supervise On	5/2/2025 3:03:36 AM		
SubDirectory	FG042925	HP Acquire Method		HP Processing Method	FG042425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK		FG015780.D	29 Apr 2025 22:41		YP\AJ	Ok
20	50 PPM TRPH STD		FG015781.D	29 Apr 2025 23:40		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167783

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/29/2025
Matrix :	Solid			**Extraction Start Time :**	10:49
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/29/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:50
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24180
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Methylene Chloride	N/A	E3926
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/29/25	RS (Ext lab)	T-P-PEGHPCB
13:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167783

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 04/29/2025

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167783BL	PB167783BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U2-1
PB167783BS	PB167783BS	TPH GC	30.03	N/A	ritesh	Evelyn	1			2
Q1877-01	AU-6-042425	TPH GC	30.04	N/A	ritesh	Evelyn	1	D		3
Q1877-01MS	AU-6-042425MS	TPH GC	30.09	N/A	ritesh	Evelyn	1	D		4
Q1877-01MSD	AU-6-042425MSD	TPH GC	30.07	N/A	ritesh	Evelyn	1	D		5
Q1901-02	B-167-SB01	TPH GC	30.02	N/A	ritesh	Evelyn	1	F		6
Q1901-03	B-170-SB01	TPH GC	30.08	N/A	ritesh	Evelyn	1	E		U3-1
Q1901-04	B-167-SB02	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		2
Q1901-05	B-170-SB02	TPH GC	30.04	N/A	ritesh	Evelyn	1	E		3
Q1907-01	CO-8R-WC	TPH GC	30.06	N/A	ritesh	Evelyn	1	D		4

RS
4/29

* **Extracts relinquished on the same date as received.**

167783
10:49

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1877T **WorkList ID :** 189204 **Department :** Extraction **Date :** 04-29-2025 10:42:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1877-01	AU-6-042425	Solid	TPH GC	Cool 4 deg C	PSEG05	L41	04/24/2025	8015D
Q1901-02	B-167-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1901-03	B-170-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1901-04	B-167-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1901-05	B-170-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1907-01	CO-8R-WC	Solid	TPH GC	Cool 4 deg C	WALS01	L51	04/28/2025	8015D

Date/Time 4/29/25 10:45
Raw Sample Received by: RJ (Ext-gb)
Raw Sample Relinquished by:

Date/Time 4/29/25 11:05
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ext-gb)

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			TPH GC	8015D		04/29/25	04/29/25	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 18:31	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.17	U	1	0.17	1.21	mg/kg	FC068800.D
Aliphatic C12-C16	Aliphatic C12-C16	0.17	J	1	0.13	0.81	mg/kg	FC068800.D
Aliphatic C16-C21	Aliphatic C16-C21	0.16	U	1	0.16	1.21	mg/kg	FC068800.D
Aliphatic C21-C28	Aliphatic C21-C28	0.64	U	1	0.64	1.61	mg/kg	FC068800.D
Aliphatic C28-C40	Aliphatic C28-C40	1.42	U	1	1.42	2.41	mg/kg	FC068800.D
Aromatic C10-C12	Aromatic C10-C12	0.37	J	1	0.14	0.81	mg/kg	FD049326.D
Aromatic C12-C16	Aromatic C12-C16	0.63	J	1	0.28	1.21	mg/kg	FD049326.D
Aromatic C16-C21	Aromatic C16-C21	5.47		1	0.48	2.01	mg/kg	FD049326.D
Aromatic C21-C36	Aromatic C21-C36	3.76		1	1.44	3.22	mg/kg	FD049326.D
Total AliphaticEPH	Total AliphaticEPH	2.52	U		2.52	7.25	mg/kg	
Total AromaticEPH	Total AromaticEPH	10.2			2.35	7.25	mg/kg	
Total EPH	Total EPH	10.4	J		4.87	14.5	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068800.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.17	U	0.17	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.17	J	0.13	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.16	U	0.16	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.64	U	0.64	1.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.42	U	1.42	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		59.2		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-02	Acq On:	08 May 2025 18:31
Client Sample ID:	B-167-SB01	Operator:	YP/AJ
Data file:	FC068800.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	120888	1.219	300	ug/ml
Aliphatic C12-C16	6.643	10.042	195175	2.145	200	ug/ml
Aliphatic C16-C21	10.043	13.408	0	0	300	ug/ml
Aliphatic C21-C28	13.409	17.072	0	0	400	ug/ml
Aliphatic C28-C40	17.073	22.071	0	0	600	ug/ml
Aliphatic EPH	3.342	22.071	316063	3.365		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	4752739	59.24		ug/ml
Aliphatic C9-C28	3.342	17.072	316063	3.364	1200	ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049326.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.37	J	0.14	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.63	J	0.28	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.47		0.48	2.01	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.76		1.44	3.22	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.9		40 - 140	100%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.0		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	57.2		40 - 140	114%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-02	Acq On:	08 May 2025 17:53
Client Sample ID:	B-167-SB01	Operator:	YP/AJ
Data file:	FD049326.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	587495	4.571	200	ug/ml
Aromatic C12-C16	6.177	8.805	1056316	7.783	300	ug/ml
Aromatic C16-C21	8.806	13.095	8915470	67.995	500	ug/ml
Aromatic C21-C36	13.0956	18.515	5479238	46.69	800	ug/ml
Aromatic EPH	4.431	18.515	16038519	127.038		ug/ml
2-Bromonaphthalene (SURR)	7.741	7.741	5920352	49.93		ug/ml
2-Flurobiphenyl (SURR)	8.606	8.606	3946659	49.98		ug/ml
ortho-Terphenyl (SURR)	11.653	11.653	7896457	57.21		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 19:09	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.17	U	1	0.17	1.20	mg/kg	FC068801.D
Aliphatic C12-C16	Aliphatic C12-C16	0.13	U	1	0.13	0.80	mg/kg	FC068801.D
Aliphatic C16-C21	Aliphatic C16-C21	0.16	U	1	0.16	1.20	mg/kg	FC068801.D
Aliphatic C21-C28	Aliphatic C21-C28	0.64	U	1	0.64	1.60	mg/kg	FC068801.D
Aliphatic C28-C40	Aliphatic C28-C40	1.42	U	1	1.42	2.41	mg/kg	FC068801.D
Aromatic C10-C12	Aromatic C10-C12	0.61	J	1	0.14	0.80	mg/kg	FD049327.D
Aromatic C12-C16	Aromatic C12-C16	1.45		1	0.28	1.20	mg/kg	FD049327.D
Aromatic C16-C21	Aromatic C16-C21	20.1		1	0.48	2.00	mg/kg	FD049327.D
Aromatic C21-C36	Aromatic C21-C36	19.0		1	1.43	3.21	mg/kg	FD049327.D
Total AliphaticEPH	Total AliphaticEPH	2.51	U		2.51	7.21	mg/kg	
Total AromaticEPH	Total AromaticEPH	41.2			2.33	7.21	mg/kg	
Total EPH	Total EPH	41.2			4.84	14.4	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC068801.D

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068801.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.17	U	0.17	1.20	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.13	U	0.13	0.80	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.16	U	0.16	1.20	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.64	U	0.64	1.60	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.42	U	1.42	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		39.2		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-03	Acq On:	08 May 2025 19:09
Client Sample ID:	B-170-SB01	Operator:	YP/AJ
Data file:	FC068801.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	76596	0.773	300	ug/ml
Aliphatic C12-C16	6.643	10.042	44047	0.484	200	ug/ml
Aliphatic C16-C21	10.043	13.408	85783	1	300	ug/ml
Aliphatic C21-C28	13.409	17.072	201349	2.423	400	ug/ml
Aliphatic C28-C40	17.073	22.071	0	0	600	ug/ml
Aliphatic EPH	3.342	22.071	407775	4.68		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.143	13.143	3145610	39.21		ug/ml
Aliphatic C9-C28	3.342	17.072	407775	4.68	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049327.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.61	J	0.14	0.80	mg/kg
Aromatic C12-C16	Aromatic C12-C16	1.45		0.28	1.20	mg/kg
Aromatic C16-C21	Aromatic C16-C21	20.1		0.48	2.00	mg/kg
Aromatic C21-C36	Aromatic C21-C36	19.0		1.43	3.21	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.5		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.6		40 - 140	127%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.4		40 - 140	85%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-03	Acq On:	08 May 2025 18:31
Client Sample ID:	B-170-SB01	Operator:	YP/AJ
Data file:	FD049327.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	976606	7.598	200	ug/ml
Aromatic C12-C16	6.177	8.805	2452944	18.073	300	ug/ml
Aromatic C16-C21	8.806	13.095	32947919	251.28	500	ug/ml
Aromatic C21-C36	13.0956	18.515	27860467	237.406	800	ug/ml
Aromatic EPH	4.431	18.515	64237936	514.356		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7294212	61.52		ug/ml
2-Flurobiphenyl (SURR)	8.608	8.608	5025132	63.63		ug/ml
ortho-Terphenyl (SURR)	11.652	11.652	5845951	42.36		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 19:47	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.26	U	1	0.26	1.88	mg/kg	FC068802.D
Aliphatic C12-C16	Aliphatic C12-C16	2.11		1	0.21	1.25	mg/kg	FC068802.D
Aliphatic C16-C21	Aliphatic C16-C21	0.24	U	1	0.24	1.88	mg/kg	FC068802.D
Aliphatic C21-C28	Aliphatic C21-C28	1.00	U	1	1.00	2.50	mg/kg	FC068802.D
Aliphatic C28-C40	Aliphatic C28-C40	2.22	U	1	2.22	3.76	mg/kg	FC068802.D
Aromatic C10-C12	Aromatic C10-C12	0.51	J	1	0.23	1.25	mg/kg	FD049328.D
Aromatic C12-C16	Aromatic C12-C16	0.65	J	1	0.43	1.88	mg/kg	FD049328.D
Aromatic C16-C21	Aromatic C16-C21	3.65		1	0.75	3.13	mg/kg	FD049328.D
Aromatic C21-C36	Aromatic C21-C36	3.46	J	1	2.24	5.01	mg/kg	FD049328.D
Total AliphaticEPH	Total AliphaticEPH	3.93	U		3.93	11.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.27	J		3.65	11.3	mg/kg	
Total EPH	Total EPH	10.4	J		7.58	22.5	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC068802.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068802.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.26	U	0.26	1.88	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		2.11		0.21	1.25	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.24	U	0.24	1.88	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.00	U	1.00	2.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.22	U	2.22	3.76	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		62.7		40 - 140	125%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-04	Acq On:	08 May 2025 19:47
Client Sample ID:	B-167-SB02	Operator:	YP/AJ
Data file:	FC068802.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	41529	0.419	300	ug/ml
Aliphatic C12-C16	6.643	10.042	1532288	16.841	200	ug/ml
Aliphatic C16-C21	10.043	13.408	0	0	300	ug/ml
Aliphatic C21-C28	13.409	17.072	53201	0.64	400	ug/ml
Aliphatic C28-C40	17.073	22.071	113958	1.347	600	ug/ml
Aliphatic EPH	3.342	22.071	1740976	19.247		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	5032167	62.72		ug/ml
Aliphatic C9-C28	3.342	17.072	1627018	17.9	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049328.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.51	J	0.23	1.25	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.65	J	0.43	1.88	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.65		0.75	3.13	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.46	J	2.24	5.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.7		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	36.9		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.7		40 - 140	81%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-04	Acq On:	08 May 2025 19:09
Client Sample ID:	B-167-SB02	Operator:	YP/AJ
Data file:	FD049328.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	522195	4.063	200	ug/ml
Aromatic C12-C16	6.177	8.805	708194	5.218	300	ug/ml
Aromatic C16-C21	8.806	13.095	3817305	29.113	500	ug/ml
Aromatic C21-C36	13.0956	18.515	3237785	27.59	800	ug/ml
Aromatic EPH	4.431	18.515	8285479	65.983		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	6364997	53.68		ug/ml
2-Flurobiphenyl (SURR)	8.605	8.605	2914629	36.91		ug/ml
ortho-Terphenyl (SURR)	11.651	11.651	5613078	40.67		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 22:19	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.19	U	1	0.19	1.33	mg/kg	FC068806.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	J	1	0.15	0.89	mg/kg	FC068806.D
Aliphatic C16-C21	Aliphatic C16-C21	0.17	U	1	0.17	1.33	mg/kg	FC068806.D
Aliphatic C21-C28	Aliphatic C21-C28	0.71	U	1	0.71	1.77	mg/kg	FC068806.D
Aliphatic C28-C40	Aliphatic C28-C40	1.57	U	1	1.57	2.66	mg/kg	FC068806.D
Aromatic C10-C12	Aromatic C10-C12	0.31	J	1	0.16	0.89	mg/kg	FD049332.D
Aromatic C12-C16	Aromatic C12-C16	0.42	J	1	0.31	1.33	mg/kg	FD049332.D
Aromatic C16-C21	Aromatic C16-C21	2.40		1	0.53	2.22	mg/kg	FD049332.D
Aromatic C21-C36	Aromatic C21-C36	1.80	J	1	1.58	3.55	mg/kg	FD049332.D
Total AliphaticEPH	Total AliphaticEPH	2.78	U		2.78	7.98	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.93	J		2.58	7.99	mg/kg	
Total EPH	Total EPH	5.36	U		5.36	16.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068806.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.19	U	0.19	1.33	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	J	0.15	0.89	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.17	U	0.17	1.33	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.71	U	0.71	1.77	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.57	U	1.57	2.66	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.7		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-05	Acq On:	08 May 2025 22:19
Client Sample ID:	B-170-SB02	Operator:	YP/AJ
Data file:	FC068806.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	0	0	300	ug/ml
Aliphatic C12-C16	6.643	10.042	257978	2.835	200	ug/ml
Aliphatic C16-C21	10.043	13.408	0	0	300	ug/ml
Aliphatic C21-C28	13.409	17.072	0	0	400	ug/ml
Aliphatic C28-C40	17.073	22.071	0	0	600	ug/ml
Aliphatic EPH	3.342	22.071	257978	2.835		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.142	13.142	2465882	30.74		ug/ml
Aliphatic C9-C28	3.342	17.072	257978	2.835	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049332.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	J	0.16	0.89	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.42	J	0.31	1.33	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.40		0.53	2.22	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.80	J	1.58	3.55	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.9		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.0		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.1		40 - 140	58%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-05	Acq On:	08 May 2025 21:41
Client Sample ID:	B-170-SB02	Operator:	YP/AJ
Data file:	FD049332.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	446581	3.474	200	ug/ml
Aromatic C12-C16	6.177	8.805	643402	4.74	300	ug/ml
Aromatic C16-C21	8.806	13.095	3552725	27.095	500	ug/ml
Aromatic C21-C36	13.0956	18.515	2378123	20.265	800	ug/ml
Aromatic EPH	4.431	18.515	7020831	55.575		ug/ml
2-Bromonaphthalene (SURR)	7.741	7.741	6746093	56.9		ug/ml
2-Flurobiphenyl (SURR)	8.607	8.607	4263173	53.98		ug/ml
ortho-Terphenyl (SURR)	11.650	11.650	4011652	29.07		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
05/01/25 09:40	05/02/25 14:40	PB167840

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.81	U	1	8.81	31.9	ug/l	FC068746.D
Aliphatic C12-C16	Aliphatic C12-C16	14.4	U	1	14.4	21.3	ug/l	FC068746.D
Aliphatic C16-C21	Aliphatic C16-C21	8.87	U	1	8.87	31.9	ug/l	FC068746.D
Aliphatic C21-C28	Aliphatic C21-C28	13.3	U	1	13.3	42.6	ug/l	FC068746.D
Aliphatic C28-C40	Aliphatic C28-C40	25.3	U	1	25.3	63.8	ug/l	FC068746.D
Aromatic C10-C12	Aromatic C10-C12	3.18	J	1	2.20	21.3	ug/l	FD049313.D
Aromatic C12-C16	Aromatic C12-C16	4.53	U	1	4.53	31.9	ug/l	FD049313.D
Aromatic C16-C21	Aromatic C16-C21	49.7	J	1	8.80	53.2	ug/l	FD049313.D
Aromatic C21-C36	Aromatic C21-C36	25.3	U	1	25.3	85.1	ug/l	FD049313.D
Total AliphaticEPH	Total AliphaticEPH	70.7	U		70.7	192	ug/l	
Total AromaticEPH	Total AromaticEPH	52.9	J		40.8	192	ug/l	
Total EPH	Total EPH	112	U		112	383	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC068746.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068746.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.81	U	8.81	31.9	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	14.4	U	14.4	21.3	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.87	U	8.87	31.9	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	13.3	U	13.3	42.6	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	25.3	U	25.3	63.8	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.9		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-06	Acq On:	02 May 2025 14:40
Client Sample ID:	FB04262025	Operator:	YP/AJ
Data file:	FC068746.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	95984	0.912	300	ug/ml
Aliphatic C12-C16	6.646	10.046	38904	0.38	200	ug/ml
Aliphatic C16-C21	10.047	13.415	43108	0.436	300	ug/ml
Aliphatic C21-C28	13.416	17.079	0	0	400	ug/ml
Aliphatic C28-C40	17.080	22.085	0	0	600	ug/ml
Aliphatic EPH	3.343	22.085	177996	1.728		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.149	13.149	3985386	42.9		ug/ml
Aliphatic C9-C28	3.343	17.079	177996	1.728	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049313.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.18	J	2.20	21.3	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.53	U	4.53	31.9	ug/l
Aromatic C16-C21	Aromatic C16-C21	49.7	J	8.80	53.2	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.3	U	25.3	85.1	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	65.7		40 - 140	131%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	67.3		40 - 140	135%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	62.1		40 - 140	124%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-06	Acq On:	02 May 2025 14:40
Client Sample ID:	FB04262025	Operator:	YP/AJ
Data file:	FD049313.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	191868	1.493	200	ug/ml
Aromatic C12-C16	6.177	8.805	0	0	300	ug/ml
Aromatic C16-C21	8.806	13.095	3063364	23.363	500	ug/ml
Aromatic C21-C36	13.096	18.516	240602	2.05	800	ug/ml
Aromatic EPH	4.431	18.516	3495834	26.906		ug/ml
ortho-Terphenyl (SURR)	11.654	11.654	8573546	62.12		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7791580	65.71		ug/ml
2-Flurobiphenyl (SURR)	8.608	8.608	5316724	67.32		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Run Number: FC050225AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB167840BL	78			0
PB167840BS	80			0
PB167840BSD	77			0
FB04262025	86			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Run Number: FC050825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB167903BL	90			0
PB167903BS	87			0
PB167903BSD	90			0
B-167-SB01	118			0
B-170-SB01	78			0
B-167-SB02	125			0
B-167-SB02MS	69			0
B-167-SB02MSD	74			0
B-170-SB02	61			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Run Number: FD050225AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB167840BL	106	102	108	0
PB167840BS	125	131	111	0
PB167840BSD	130	136	115	0
FB04262025	131	135	124	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Run Number: FD050825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB167903BL	122	115	102	0
PB167903BS	123	127	105	0
PB167903BSD	129	132	109	0
B-167-SB01	100	100	114	0
B-170-SB01	123	127	85	0
B-167-SB02	107	74	81	0
B-167-SB02MS	120	115	77	0
B-167-SB02MSD	120	115	77	0
B-170-SB02	114	108	58	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : Q1901-04MS **Datafile:** FC068804.D

Client ID : B-167-SB02MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	18.7	0	9.53	51		(40-140)
Aliphatic C12-C16	12.5	2.11	9.38	58		(40-140)
Aliphatic C16-C21	18.7	0	14.8	79		(40-140)
Aliphatic C21-C28	25.0	0	19.3	77		(40-140)
Aliphatic C28-C40	37.5	0	26.3	70		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : Q1901-04MSD **Datafile:** FC068805.D

Client ID : B-167-SB02MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	18.8	0	9.57	51		0.2 |	(40-140)	50
Aliphatic C12-C16	12.5	2.11	9.36	58		0.34 |	(40-140)	50
Aliphatic C16-C21	18.8	0	14.6	78		1.4 |	(40-140)	50
Aliphatic C21-C28	25.0	0	19.2	77		0.52 |	(40-140)	50
Aliphatic C28-C40	37.5	0	26.4	70		0.28 |	(40-140)	50

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : Q1901-04MS **Datafile:** FD049330.D

Client ID : B-167-SB02MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	12.5	0.51	9.38	71		(40-140)
Aromatic C12-C16	18.7	0.65	16.8	86		(40-140)
Aromatic C16-C21	31.2	3.65	35.0	100		(40-140)
Aromatic C21-C36	50.0	3.46	51.3	96		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : Q1901-04MSD **Datafile:** FD049331.D

Client ID : B-167-SB02MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	12.5	0.51	9.49	72		1.12 |	(40-140)	50
Aromatic C12-C16	18.8	0.65	16.9	87		0.46 |	(40-140)	50
Aromatic C16-C21	31.3	3.65	35.0	100		0 |	(40-140)	50
Aromatic C21-C36	50.0	3.46	53.4	100		4.29 |	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167840BS **Datafile:** FC068744.D

Client ID : PB167840BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	185	62		(40-140)
Aliphatic C12-C16	200	178	89		(40-140)
Aliphatic C16-C21	300	318	106		(40-140)
Aliphatic C21-C28	400	426	106		(40-140)
Aliphatic C28-C40	600	637	106		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167840BSD **Datafile:** FC068745.D

Client ID : PB167840BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	182	61		1.7|	(40-140)	25
Aliphatic C12-C16	200	172	86		3.4|	(40-140)	25
Aliphatic C16-C21	300	307	102		3.5|	(40-140)	25
Aliphatic C21-C28	400	417	104		1.7|	(40-140)	25
Aliphatic C28-C40	600	637	106		0.15|	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167903BS **Datafile:** FC068793.D

Client ID : PB167903BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.17	62		(40-140)
Aliphatic C12-C16	6.7	6.23	94		(40-140)
Aliphatic C16-C21	10	11.4	114		(40-140)
Aliphatic C21-C28	13.3	15.5	116		(40-140)
Aliphatic C28-C40	20.0	21.7	108		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167903BSD **Datafile:** FC068794.D

Client ID : PB167903BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.44	64		4.2|	(40-140)	25
Aliphatic C12-C16	6.7	6.51	98		4.4|	(40-140)	25
Aliphatic C16-C21	10	11.9	119		4.4|	(40-140)	25
Aliphatic C21-C28	13.3	15.9	119		2.8|	(40-140)	25
Aliphatic C28-C40	20.0	22.3	111		3.3|	(40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167840BS **Datafile:** FD049311.D

Client ID : PB167840BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	157	78		(40-140)
Aromatic C12-C16	300	279	93		(40-140)
Aromatic C16-C21	500	597	119		(40-140)
Aromatic C21-C36	800	986	123		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167840BSD **Datafile:** FD049312.D

Client ID : PB167840BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	163	82		3.8|	(40-140)	25
Aromatic C12-C16	300	289	96		3.5|	(40-140)	25
Aromatic C16-C21	500	624	124		4.8|	(40-140)	25
Aromatic C21-C36	800	1040	129		5.1|	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167903BS **Datafile:** FD049320.D

Client ID : PB167903BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	5.23	78		(40-140)
Aromatic C12-C16	10	9.09	91		(40-140)
Aromatic C16-C21	16.7	18.9	113		(40-140)
Aromatic C21-C36	26.6	31.4	117		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901

Sample No : PB167903BSD **Datafile:** FD049321.D

Client ID : PB167903BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.47	82		4.5|	(40-140)	25
Aromatic C12-C16	10	9.48	95		4.2|	(40-140)	25
Aromatic C16-C21	16.7	19.6	117		4.1|	(40-140)	25
Aromatic C21-C36	26.6	32.8	123		5.1|	(40-140)	25

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167840BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Instrument ID: FID_C Lab Sample ID: PB167840BL

Matrix: (soil/water) Water Date Extracted: 5/1/2025 9:40:00 AM

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167840BS	PB167840BS
PB167840BSD	PB167840BSD
FB04262025	Q1901-06

COMMENTS:

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167903BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Instrument ID: FID_C Lab Sample ID: PB167903BL

Matrix: (soil/water) Solid Date Extracted: 5/7/2025 1:37:00 PM

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167903BS	PB167903BS
PB167903BSD	PB167903BSD
B-167-SB01	Q1901-02
B-170-SB01	Q1901-03
B-167-SB02	Q1901-04
B-167-SB02MS	Q1901-04MS
B-167-SB02MSD	Q1901-04MSD
B-170-SB02	Q1901-05

COMMENTS:

QC SAMPLE DATA

Raw Data: **FC068743.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167840BL	SDG No.:	Q1901
Lab Sample ID:	PB167840BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
05/01/25 09:40	05/02/25 11:36	PB167840

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	1	8.28	30.0	ug/l	FC068743.D
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	1	13.5	20.0	ug/l	FC068743.D
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	1	8.34	30.0	ug/l	FC068743.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FC068743.D
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	1	23.8	60.0	ug/l	FC068743.D
Aromatic C10-C12	Aromatic C10-C12	2.07	U	1	2.07	20.0	ug/l	FD049310.D
Aromatic C12-C16	Aromatic C12-C16	4.26	U	1	4.26	30.0	ug/l	FD049310.D
Aromatic C16-C21	Aromatic C16-C21	8.27	U	1	8.27	50.0	ug/l	FD049310.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FD049310.D
Total AliphaticEPH	Total AliphaticEPH	66.4	U		66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	38.4	U		38.4	180	ug/l	
Total EPH	Total EPH	105	U		105	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167840BL		SDG No.:	Q1901	
Lab Sample ID:	PB167840BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068743.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.1		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167840BL	Acq On:	02 May 2025 11:36
Client Sample ID:	PB167840BL	Operator:	YP/AJ
Data file:	FC068743.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	0	0	300	ug/ml
Aliphatic C12-C16	6.646	10.046	0	0	200	ug/ml
Aliphatic C16-C21	10.047	13.415	0	0	300	ug/ml
Aliphatic C21-C28	13.416	17.079	0	0	400	ug/ml
Aliphatic C28-C40	17.080	22.085	0	0	600	ug/ml
Aliphatic EPH	3.343	22.085	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.150	13.150	3635026	39.13		ug/ml
Aliphatic C9-C28	3.343	17.079	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167840BL		SDG No.:	Q1901	
Lab Sample ID:	PB167840BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049310.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.0		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	51.0		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	54.0		40 - 140	108%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167840BL	Acq On:	02 May 2025 11:36
Client Sample ID:	PB167840BL	Operator:	YP/AJ
Data file:	FD049310.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	0	0	200	ug/ml
Aromatic C12-C16	6.177	8.805	0	0	300	ug/ml
Aromatic C16-C21	8.806	13.095	0	0	500	ug/ml
Aromatic C21-C36	13.096	18.516	0	0	800	ug/ml
Aromatic EPH	4.431	18.516	0	0		ug/ml
ortho-Terphenyl (SURR)	11.653	11.653	7454174	54.01		ug/ml
2-Bromonaphthalene (SURR)	7.740	7.740	6287428	53.03		ug/ml
2-Flurobiphenyl (SURR)	8.606	8.606	4025356	50.97		ug/ml

Raw Data: **FC068792.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BL	SDG No.:	Q1901
Lab Sample ID:	PB167903BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 12:24	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC068792.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC068792.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC068792.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC068792.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC068792.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049319.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049319.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049319.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.67	mg/kg	FD049319.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.01	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BL	SDG No.:	Q1901
Lab Sample ID:	PB167903BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068792.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.18	U	1.18	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		45.1		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167903BL	Acq On:	08 May 2025 12:24
Client Sample ID:	PB167903BL	Operator:	YP/AJ
Data file:	FC068792.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	0	0	300	ug/ml
Aliphatic C12-C16	6.643	10.042	0	0	200	ug/ml
Aliphatic C16-C21	10.043	13.408	0	0	300	ug/ml
Aliphatic C21-C28	13.409	17.072	0	0	400	ug/ml
Aliphatic C28-C40	17.073	22.071	0	0	600	ug/ml
Aliphatic EPH	3.342	22.071	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.143	13.143	3618503	45.1		ug/ml
Aliphatic C9-C28	3.342	17.072	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BL	SDG No.:	Q1901
Lab Sample ID:	PB167903BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049319.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.1		40 - 140	122%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.7		40 - 140	115%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.9		40 - 140	102%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167903BL	Acq On:	08 May 2025 12:24
Client Sample ID:	PB167903BL	Operator:	YP/AJ
Data file:	FD049319.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	0	0	200	ug/ml
Aromatic C12-C16	6.177	8.805	0	0	300	ug/ml
Aromatic C16-C21	8.806	13.095	0	0	500	ug/ml
Aromatic C21-C36	13.0956	18.515	0	0	800	ug/ml
Aromatic EPH	4.431	18.515	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7241114	61.07		ug/ml
2-Flurobiphenyl (SURR)	8.607	8.607	4558275	57.72		ug/ml
ortho-Terphenyl (SURR)	11.653	11.653	7029721	50.93		ug/ml

Raw Data: **FC068744.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167840BS	SDG No.:	Q1901
Lab Sample ID:	PB167840BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
05/01/25 09:40	05/02/25 13:26	PB167840

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	185		1	8.28	30.0	ug/l	FC068744.D
Aliphatic C12-C16	Aliphatic C12-C16	178		1	13.5	20.0	ug/l	FC068744.D
Aliphatic C16-C21	Aliphatic C16-C21	318		1	8.34	30.0	ug/l	FC068744.D
Aliphatic C21-C28	Aliphatic C21-C28	426		1	12.5	40.0	ug/l	FC068744.D
Aliphatic C28-C40	Aliphatic C28-C40	637		1	23.8	60.0	ug/l	FC068744.D
Aromatic C10-C12	Aromatic C10-C12	157		1	2.07	20.0	ug/l	FD049311.D
Aromatic C12-C16	Aromatic C12-C16	279		1	4.26	30.0	ug/l	FD049311.D
Aromatic C16-C21	Aromatic C16-C21	597		1	8.27	50.0	ug/l	FD049311.D
Aromatic C21-C36	Aromatic C21-C36	986		1	23.8	80.0	ug/l	FD049311.D
Total AliphaticEPH	Total AliphaticEPH	1740			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2020			38.4	180	ug/l	
Total EPH	Total EPH	3760			105	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068744.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167840BS		SDG No.:	Q1901	
Lab Sample ID:	PB167840BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068744.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	185		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	178		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	318		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	426		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	637		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.2		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167840BS	Acq On:	02 May 2025 13:26
Client Sample ID:	PB167840BS	Operator:	YP/AJ
Data file:	FC068744.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	9784944	92.94	300	ug/ml
Aliphatic C12-C16	6.646	10.046	9110213	89.034	200	ug/ml
Aliphatic C16-C21	10.047	13.415	15713961	159.022	300	ug/ml
Aliphatic C21-C28	13.416	17.079	20064618	213.033	400	ug/ml
Aliphatic C28-C40	17.080	22.085	28634448	318.575	600	ug/ml
Aliphatic EPH	3.343	22.085	83308184	872.605		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.150	13.150	3738287	40.24		ug/ml
Aliphatic C9-C28	3.343	17.079	54673736	554.029	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167840BS		SDG No.:	Q1901	
Lab Sample ID:	PB167840BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049311.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	157		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	279		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	597		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	986		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	62.6		40 - 140	125%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	65.5		40 - 140	131%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	55.3		40 - 140	111%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167840BS	Acq On:	02 May 2025 13:26
Client Sample ID:	PB167840BS	Operator:	YP/AJ
Data file:	FD049311.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	10130616	78.818	200	ug/ml
Aromatic C12-C16	6.177	8.805	18981153	139.848	300	ug/ml
Aromatic C16-C21	8.806	13.095	39179447	298.805	500	ug/ml
Aromatic C21-C36	13.096	18.516	57855977	493.004	800	ug/ml
Aromatic EPH	4.431	18.516	126147193	1010		ug/ml
ortho-Terphenyl (SURR)	11.654	11.654	7629284	55.28		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7423816	62.61		ug/ml
2-Flurobiphenyl (SURR)	8.608	8.608	5176330	65.55		ug/ml

Raw Data: **FC068793.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BS	SDG No.:	Q1901
Lab Sample ID:	PB167903BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 13:01	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.17		1	0.14	1.00	mg/kg	FC068793.D
Aliphatic C12-C16	Aliphatic C12-C16	6.23		1	0.11	0.67	mg/kg	FC068793.D
Aliphatic C16-C21	Aliphatic C16-C21	11.4		1	0.13	1.00	mg/kg	FC068793.D
Aliphatic C21-C28	Aliphatic C21-C28	15.5		1	0.53	1.33	mg/kg	FC068793.D
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1	1.18	2.00	mg/kg	FC068793.D
Aromatic C10-C12	Aromatic C10-C12	5.23		1	0.12	0.67	mg/kg	FD049320.D
Aromatic C12-C16	Aromatic C12-C16	9.09		1	0.23	1.00	mg/kg	FD049320.D
Aromatic C16-C21	Aromatic C16-C21	18.9		1	0.40	1.67	mg/kg	FD049320.D
Aromatic C21-C36	Aromatic C21-C36	31.4		1	1.19	2.66	mg/kg	FD049320.D
Total AliphaticEPH	Total AliphaticEPH	61.0			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	64.6			1.94	6.00	mg/kg	
Total EPH	Total EPH	126			4.03	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068793.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BS	SDG No.:	Q1901
Lab Sample ID:	PB167903BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068793.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.17		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.23		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.4		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	15.5		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.7		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167903BS	Acq On:	08 May 2025 13:01
Client Sample ID:	PB167903BS	Operator:	YP/AJ
Data file:	FC068793.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	9191306	92.717	300	ug/ml
Aliphatic C12-C16	6.643	10.042	8516253	93.601	200	ug/ml
Aliphatic C16-C21	10.043	13.408	14737629	171.846	300	ug/ml
Aliphatic C21-C28	13.409	17.072	19322244	232.543	400	ug/ml
Aliphatic C28-C40	17.073	22.071	27595131	326.096	600	ug/ml
Aliphatic EPH	3.342	22.071	79362563	916.803		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	3505588	43.7		ug/ml
Aliphatic C9-C28	3.342	17.072	51767432	590.707	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BS	SDG No.:	Q1901
Lab Sample ID:	PB167903BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049320.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.23		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.09		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.9		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	31.4		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.6		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.4		40 - 140	127%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.6		40 - 140	105%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167903BS	Acq On:	08 May 2025 13:01
Client Sample ID:	PB167903BS	Operator:	YP/AJ
Data file:	FD049320.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	10090127	78.503	200	ug/ml
Aromatic C12-C16	6.177	8.805	18517319	136.43	300	ug/ml
Aromatic C16-C21	8.806	13.095	37124113	283.13	500	ug/ml
Aromatic C21-C36	13.0956	18.515	55376857	471.879	800	ug/ml
Aromatic EPH	4.431	18.515	121108416	969.943		ug/ml
ortho-Terphenyl (SURR)	11.652	11.652	7262675	52.62		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7300671	61.57		ug/ml
2-Flurobiphenyl (SURR)	8.608	8.608	5006396	63.39		ug/ml

Raw Data: **FC068745.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167840BSD	SDG No.:	Q1901
Lab Sample ID:	PB167840BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
05/01/25 09:40	05/02/25 14:03	PB167840

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	182		1	8.28	30.0	ug/l	FC068745.D
Aliphatic C12-C16	Aliphatic C12-C16	172		1	13.5	20.0	ug/l	FC068745.D
Aliphatic C16-C21	Aliphatic C16-C21	307		1	8.34	30.0	ug/l	FC068745.D
Aliphatic C21-C28	Aliphatic C21-C28	417		1	12.5	40.0	ug/l	FC068745.D
Aliphatic C28-C40	Aliphatic C28-C40	637		1	23.8	60.0	ug/l	FC068745.D
Aromatic C10-C12	Aromatic C10-C12	163		1	2.07	20.0	ug/l	FD049312.D
Aromatic C12-C16	Aromatic C12-C16	289		1	4.26	30.0	ug/l	FD049312.D
Aromatic C16-C21	Aromatic C16-C21	624		1	8.27	50.0	ug/l	FD049312.D
Aromatic C21-C36	Aromatic C21-C36	1040		1	23.8	80.0	ug/l	FD049312.D
Total AliphaticEPH	Total AliphaticEPH	1720			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2110			38.4	180	ug/l	
Total EPH	Total EPH	3830			105	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068745.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167840BSD		SDG No.:	Q1901	
Lab Sample ID:	PB167840BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068745.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	182		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	172		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	307		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	417		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	637		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167840BSD	Acq On:	02 May 2025 14:03
Client Sample ID:	PB167840BSD	Operator:	YP/AJ
Data file:	FC068745.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	9614812	91.324	300	ug/ml
Aliphatic C12-C16	6.646	10.046	8842093	86.414	200	ug/ml
Aliphatic C16-C21	10.047	13.415	15215512	153.977	300	ug/ml
Aliphatic C21-C28	13.416	17.079	19680169	208.952	400	ug/ml
Aliphatic C28-C40	17.080	22.085	28642646	318.666	600	ug/ml
Aliphatic EPH	3.343	22.085	81995232	859.334		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.150	13.150	3593465	38.68		ug/ml
Aliphatic C9-C28	3.343	17.079	53352586	540.667	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167840BSD		SDG No.:	Q1901	
Lab Sample ID:	PB167840BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049312.D	1	05/01/25	05/02/25	PB167840

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	163		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	289		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	624		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	1040		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	64.8		40 - 140	130%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	68.0		40 - 140	136%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	57.3		40 - 140	115%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167840BSD	Acq On:	02 May 2025 14:03
Client Sample ID:	PB167840BSD	Operator:	YP/AJ
Data file:	FD049312.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	10502601	81.712	200	ug/ml
Aromatic C12-C16	6.177	8.805	19635568	144.669	300	ug/ml
Aromatic C16-C21	8.806	13.095	40948752	312.299	500	ug/ml
Aromatic C21-C36	13.096	18.516	60838111	518.416	800	ug/ml
Aromatic EPH	4.431	18.516	131925032	1060		ug/ml
ortho-Terphenyl (SURR)	11.653	11.653	7914730	57.34		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7685443	64.82		ug/ml
2-Flurobiphenyl (SURR)	8.608	8.608	5373602	68.04		ug/ml

Raw Data: **FC068794.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BSD	SDG No.:	Q1901
Lab Sample ID:	PB167903BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 13:38	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.44		1	0.14	1.00	mg/kg	FC068794.D
Aliphatic C12-C16	Aliphatic C12-C16	6.51		1	0.11	0.67	mg/kg	FC068794.D
Aliphatic C16-C21	Aliphatic C16-C21	11.9		1	0.13	1.00	mg/kg	FC068794.D
Aliphatic C21-C28	Aliphatic C21-C28	15.9		1	0.53	1.33	mg/kg	FC068794.D
Aliphatic C28-C40	Aliphatic C28-C40	22.3		1	1.18	2.00	mg/kg	FC068794.D
Aromatic C10-C12	Aromatic C10-C12	5.47		1	0.12	0.67	mg/kg	FD049321.D
Aromatic C12-C16	Aromatic C12-C16	9.48		1	0.23	1.00	mg/kg	FD049321.D
Aromatic C16-C21	Aromatic C16-C21	19.6		1	0.40	1.67	mg/kg	FD049321.D
Aromatic C21-C36	Aromatic C21-C36	32.8		1	1.19	2.66	mg/kg	FD049321.D
Total AliphaticEPH	Total AliphaticEPH	63.0			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	67.3			1.94	6.00	mg/kg	
Total EPH	Total EPH	130			4.03	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BSD	SDG No.:	Q1901
Lab Sample ID:	PB167903BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068794.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.44		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.51		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.9		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	15.9		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.3		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167903BSD	Acq On:	08 May 2025 13:38
Client Sample ID:	PB167903BSD	Operator:	YP/AJ
Data file:	FC068794.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	9576547	96.603	300	ug/ml
Aliphatic C12-C16	6.643	10.042	8887845	97.685	200	ug/ml
Aliphatic C16-C21	10.043	13.408	15333929	178.8	300	ug/ml
Aliphatic C21-C28	13.409	17.072	19856053	238.967	400	ug/ml
Aliphatic C28-C40	17.073	22.071	28336429	334.856	600	ug/ml
Aliphatic EPH	3.342	22.071	81990803	946.911		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	3590079	44.75		ug/ml
Aliphatic C9-C28	3.342	17.072	53654374	612.055	1200	ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167903BSD	SDG No.:	Q1901
Lab Sample ID:	PB167903BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049321.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.47		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.48		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	19.6		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	32.8		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	64.4		40 - 140	129%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	66.0		40 - 140	132%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	54.5		40 - 140	109%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167903BSD	Acq On:	08 May 2025 13:38
Client Sample ID:	PB167903BSD	Operator:	YP/AJ
Data file:	FD049321.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	10552866	82.103	200	ug/ml
Aromatic C12-C16	6.177	8.805	19315706	142.313	300	ug/ml
Aromatic C16-C21	8.806	13.095	38598525	294.375	500	ug/ml
Aromatic C21-C36	13.0956	18.515	57846531	492.924	800	ug/ml
Aromatic EPH	4.431	18.515	126313628	1010		ug/ml
ortho-Terphenyl (SURR)	11.653	11.653	7520284	54.49		ug/ml
2-Bromonaphthalene (SURR)	7.742	7.742	7630584	64.36		ug/ml
2-Flurobiphenyl (SURR)	8.609	8.609	5211926	66		ug/ml

Raw Data: **FC068804.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-167-SB02MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-04MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 21:04	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	9.53		1	0.26	1.87	mg/kg	FC068804.D
Aliphatic C12-C16	Aliphatic C12-C16	9.38		1	0.21	1.25	mg/kg	FC068804.D
Aliphatic C16-C21	Aliphatic C16-C21	14.8		1	0.24	1.87	mg/kg	FC068804.D
Aliphatic C21-C28	Aliphatic C21-C28	19.3		1	0.99	2.50	mg/kg	FC068804.D
Aliphatic C28-C40	Aliphatic C28-C40	26.3		1	2.21	3.75	mg/kg	FC068804.D
Aromatic C10-C12	Aromatic C10-C12	9.38		1	0.23	1.25	mg/kg	FD049330.D
Aromatic C12-C16	Aromatic C12-C16	16.8		1	0.43	1.87	mg/kg	FD049330.D
Aromatic C16-C21	Aromatic C16-C21	35.0		1	0.75	3.12	mg/kg	FD049330.D
Aromatic C21-C36	Aromatic C21-C36	51.3		1	2.23	5.00	mg/kg	FD049330.D
Total AliphaticEPH	Total AliphaticEPH	79.3			3.92	11.2	mg/kg	
Total AromaticEPH	Total AromaticEPH	112			3.64	11.2	mg/kg	
Total EPH	Total EPH	192			7.55	22.5	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-167-SB02MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-04MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068804.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	9.53		0.26	1.87	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.38		0.21	1.25	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.8		0.24	1.87	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	19.3		0.99	2.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.3		2.21	3.75	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.6		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-04MS	Acq On:	08 May 2025 21:04
Client Sample ID:	B-167-SB02MS	Operator:	YP/AJ
Data file:	FC068804.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	7560396	76.265	300	ug/ml
Aliphatic C12-C16	6.643	10.042	6832672	75.097	200	ug/ml
Aliphatic C16-C21	10.043	13.408	10145566	118.301	300	ug/ml
Aliphatic C21-C28	13.409	17.072	12845217	154.592	400	ug/ml
Aliphatic C28-C40	17.073	22.071	17796909	210.309	600	ug/ml
Aliphatic EPH	3.342	22.071	55180760	634.564		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.143	13.143	2776379	34.61		ug/ml
Aliphatic C9-C28	3.342	17.072	37383851	424.255	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	B-167-SB02MS		SDG No.:	Q1901	
Lab Sample ID:	Q1901-04MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	53.2	
Sample Wt/Vol:	30.09	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049330.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.38		0.23	1.25	mg/kg
Aromatic C12-C16	Aromatic C12-C16	16.8		0.43	1.87	mg/kg
Aromatic C16-C21	Aromatic C16-C21	35.0		0.75	3.12	mg/kg
Aromatic C21-C36	Aromatic C21-C36	51.3		2.23	5.00	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.9		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.7		40 - 140	115%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.5		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-04MS	Acq On:	08 May 2025 20:25
Client Sample ID:	B-167-SB02MS	Operator:	YP/AJ
Data file:	FD049330.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	9654364	75.113	200	ug/ml
Aromatic C12-C16	6.177	8.805	18284777	134.717	300	ug/ml
Aromatic C16-C21	8.806	13.095	36751891	280.291	500	ug/ml
Aromatic C21-C36	13.0956	18.515	48155177	410.342	800	ug/ml
Aromatic EPH	4.431	18.515	112846209	900.463		ug/ml
2-Bromonaphthalene (SURR)	7.741	7.741	7098283	59.87		ug/ml
2-Flurobiphenyl (SURR)	8.607	8.607	4554552	57.67		ug/ml
ortho-Terphenyl (SURR)	11.651	11.651	5318512	38.53		ug/ml

Raw Data: **FC068805.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-167-SB02MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-04MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 13:37	05/08/25 21:41	PB167903

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	9.57		1	0.26	1.88	mg/kg	FC068805.D
Aliphatic C12-C16	Aliphatic C12-C16	9.36		1	0.21	1.25	mg/kg	FC068805.D
Aliphatic C16-C21	Aliphatic C16-C21	14.6		1	0.24	1.88	mg/kg	FC068805.D
Aliphatic C21-C28	Aliphatic C21-C28	19.2		1	0.99	2.50	mg/kg	FC068805.D
Aliphatic C28-C40	Aliphatic C28-C40	26.4		1	2.21	3.75	mg/kg	FC068805.D
Aromatic C10-C12	Aromatic C10-C12	9.49		1	0.23	1.25	mg/kg	FD049331.D
Aromatic C12-C16	Aromatic C12-C16	16.9		1	0.43	1.88	mg/kg	FD049331.D
Aromatic C16-C21	Aromatic C16-C21	35.0		1	0.75	3.13	mg/kg	FD049331.D
Aromatic C21-C36	Aromatic C21-C36	53.4		1	2.23	5.00	mg/kg	FD049331.D
Total AliphaticEPH	Total AliphaticEPH	79.1			3.92	11.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	115			3.64	11.3	mg/kg	
Total EPH	Total EPH	194			7.55	22.5	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068805.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-167-SB02MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-04MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068805.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	9.57		0.26	1.88	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.36		0.21	1.25	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.6		0.24	1.88	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	19.2		0.99	2.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.4		2.21	3.75	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.8		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1901-04MSD	Acq On:	08 May 2025 21:41
Client Sample ID:	B-167-SB02MSD	Operator:	YP/AJ
Data file:	FC068805.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	7588573	76.549	300	ug/ml
Aliphatic C12-C16	6.643	10.042	6812490	74.875	200	ug/ml
Aliphatic C16-C21	10.043	13.408	10040471	117.076	300	ug/ml
Aliphatic C21-C28	13.409	17.072	12775445	153.752	400	ug/ml
Aliphatic C28-C40	17.073	22.071	17861536	211.073	600	ug/ml
Aliphatic EPH	3.342	22.071	55078515	633.325		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.142	13.142	2948527	36.75		ug/ml
Aliphatic C9-C28	3.342	17.072	37216979	422.252	1200	ug/ml

Raw Data: **FD049331.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-167-SB02MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-04MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049331.D	1	05/07/25	05/08/25	PB167903

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.49		0.23	1.25	mg/kg
Aromatic C12-C16	Aromatic C12-C16	16.9		0.43	1.88	mg/kg
Aromatic C16-C21	Aromatic C16-C21	35.0		0.75	3.13	mg/kg
Aromatic C21-C36	Aromatic C21-C36	53.4		2.23	5.00	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	60.1		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.4		40 - 140	115%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.4		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1901-04MSD	Acq On:	08 May 2025 21:04
Client Sample ID:	B-167-SB02MSD	Operator:	YP/AJ
Data file:	FD049331.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.431	6.176	9751783	75.871	200	ug/ml
Aromatic C12-C16	6.177	8.805	18347653	135.18	300	ug/ml
Aromatic C16-C21	8.806	13.095	36699099	279.889	500	ug/ml
Aromatic C21-C36	13.0956	18.515	50147109	427.315	800	ug/ml
Aromatic EPH	4.431	18.515	114945644	918.255		ug/ml
2-Bromonaphthalene (SURR)	7.741	7.741	7121821	60.06		ug/ml
2-Flurobiphenyl (SURR)	8.607	8.607	4534162	57.41		ug/ml
ortho-Terphenyl (SURR)	11.651	11.651	5295430	38.37		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC040925AL

AreaCount

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	28917690.000	15222657.000	6286032.000	3422392.000	1645296.000	
Aliphatic C12-C16	18431489.000	9897338.000	4088590.000	2253140.000	1056103.000	
Aliphatic C16-C21	26693561.000	14380121.000	5937795.000	3290227.000	1508988.000	
Aliphatic C21-C28	34681529.000	18246305.000	7529133.000	4137443.000	1908822.000	
Aliphatic C28-C40	51686216.000	25852842.000	10689091.000	5728785.000	2776165.000	
Aliphatic EPH	160410485.000	83599263.000	34530641.000	18831987.000	8895374.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	105282.0026666	6.555				
Aliphatic C12-C16	102322.575	7.446				
Aliphatic C16-C21	98816.5386664	7.616				
Aliphatic C21-C28	94185.337	6.542				
Aliphatic C28-C40	89882.8349998	4.545				
Aliphatic EPH	96276.6184442	6.125				

Concentration

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	96392.300000	101484.380000	104767.200000	114079.733333	109686.400000	
Aliphatic C12-C16	92157.445000	98973.380000	102214.750000	112657.000000	105610.300000	
Aliphatic C16-C21	88978.536666	95867.473333	98963.250000	109674.233333	100599.200000	

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Inital Calibration Report for SequenceID : FC040925AL

Aliphatic C21-C28	86703.822500	91231.525000	94114.162500	103436.075000	95441.100000	
Aliphatic C28-C40	86143.693333	86176.140000	89075.758333	95479.750000	92538.833333	
Aliphatic EPH	89116.936111	92888.070000	95918.447222	104622.150000	98837.488888	

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Inital Calibration Report for SequenceID : FC050625AL

AreaCount

Parameter Range	FC068781.D	FC068782.D	FC068783.D	FC068784.D	FC068785.D	
Aliphatic C9-C12	27880831.000	14168342.000	6134963.000	3195282.000	1492730.000	
Aliphatic C12-C16	16912815.000	8652812.000	3764747.000	1956091.000	919066.000	
Aliphatic C16-C21	23844810.000	12210662.000	5322269.000	2761699.000	1307311.000	
Aliphatic C21-C28	31086803.000	15724596.000	6816713.000	3578057.000	1689101.000	
Aliphatic C28-C40	47720501.000	24011560.000	10345705.000	5495913.000	2571840.000	
Aliphatic EPH	147445760.000	74767972.000	32384397.000	16987042.000	7980048.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	99133.1666664	5.629				
Aliphatic C12-C16	90984.404	5.976				
Aliphatic C16-C21	85760.459333	6.077				
Aliphatic C21-C28	83091.075	5.885				
Aliphatic C28-C40	84622.6919998	5.889				
Aliphatic EPH	87597.2298886	5.859				

Concentration

Parameter Range	FC068781.D	FC068782.D	FC068783.D	FC068784.D	FC068785.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068781.D	FC068782.D	FC068783.D	FC068784.D	FC068785.D	
Aliphatic C9-C12	92936.103333	94455.613333	102249.383333	106509.400000	99515.333333	
Aliphatic C12-C16	84564.075000	86528.120000	94118.675000	97804.550000	91906.600000	
Aliphatic C16-C21	79482.700000	81404.413333	88704.483333	92056.633333	87154.066666	

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Inital Calibration Report for SequenceID : FC050625AL

Aliphatic C21-C28	77717.007500	78622.980000	85208.912500	89451.425000	84455.050000	
Aliphatic C28-C40	79534.168333	80038.533333	86214.208333	91598.550000	85728.000000	
Aliphatic EPH	81914.311111	83075.524444	89956.658333	94372.455555	88667.200000	

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Inital Calibration Report for SequenceID : FD050125AR

AreaCount

Parameter Range	FD049298.D	FD049299.D	FD049300.D	FD049301.D	FD049302.D	
Aromatic C10-C12	24947085.000	13432598.000	5352823.000	2577094.000	1209211.000	
Aromatic C12-C16	39319151.000	21327001.000	8518789.000	4088995.000	1906691.000	
Aromatic C16-C21	51864159.000	28036330.000	11078299.000	5170923.000	2360160.000	
Aromatic C21-C36	105771332.000	55185778.000	22063557.000	10548658.000	4807254.000	
Aromatic EPH	221901727.000	117981707.000	47013468.000	22385670.000	10283316.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	128531.556	4.503				
Aromatic C12-C16	135727.2453328	4.901				
Aromatic C16-C21	131120.372	6.754				
Aromatic C21-C36	117353.8517774	5.489				
Aromatic EPH	124717.2778884	5.478				

Concentration

Parameter Range	FD049298.D	FD049299.D	FD049300.D	FD049301.D	FD049302.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049298.D	FD049299.D	FD049300.D	FD049301.D	FD049302.D	
Aromatic C10-C12	124735.425000	134325.980000	133820.575000	128854.700000	120921.100000	
Aromatic C12-C16	131063.836666	142180.006666	141979.816666	136299.833333	127112.733333	
Aromatic C16-C21	129660.397500	140181.650000	138478.737500	129273.075000	118008.000000	
Aromatic C21-C36	117523.702222	122635.062222	122575.316666	117207.311111	106827.866666	
Aromatic EPH	123278.737222	131090.785555	130592.966666	124364.833333	114259.066666	

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Continuing Calibration Report for SequenceID : FC050225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068742.D**						
Aliphatic C9-C12	6488349.000	60.000	3.343	6.645	108139.150	105282.003	-2.714
Aliphatic C12-C16	4261833.000	40.000	6.646	10.046	106545.825	102322.575	-4.127
Aliphatic C16-C21	6185679.000	60.000	10.047	13.415	103094.650	98816.539	-4.329
Aliphatic C21-C28	7845338.000	80.000	13.416	17.079	98066.725	94185.337	-4.121
Aliphatic C28-C40	12251595.000	120.000	17.080	22.085	102096.625	89882.835	-13.589
Aliphatic EPH	37032794.000	360.000	3.343	22.085	102868.872	96276.618	-6.847

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	02 May 2025 10:53
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068742.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.343	6.645	6488349.000	60.000	ug/ml
Aliphatic C12-C16	6.646	10.046	4261833.000	40.000	ug/ml
Aliphatic C16-C21	10.047	13.415	6185679.000	60.000	ug/ml
Aliphatic C21-C28	13.416	17.079	7845338.000	80.000	ug/ml
Aliphatic C28-C40	17.080	22.085	12251595.000	120.000	ug/ml
Aliphatic EPH	3.343	22.085	37032794.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC050225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068748.D**						
Aliphatic C9-C12	5997337.000	60.000	3.343	6.645	99955.617	105282.003	5.059
Aliphatic C12-C16	3867344.000	40.000	6.646	10.046	96683.600	102322.575	5.511
Aliphatic C16-C21	5592959.000	60.000	10.047	13.415	93215.983	98816.539	5.668
Aliphatic C21-C28	7186492.000	80.000	13.416	17.079	89831.150	94185.337	4.623
Aliphatic C28-C40	11519078.000	120.000	17.080	22.085	95992.317	89882.835	-6.797
Aliphatic EPH	34163210.000	360.000	3.343	22.085	94897.806	96276.618	1.432

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	02 May 2025 15:56
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068748.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.343	6.645	5997337.000	60.000	ug/ml
Aliphatic C12-C16	6.646	10.046	3867344.000	40.000	ug/ml
Aliphatic C16-C21	10.047	13.415	5592959.000	60.000	ug/ml
Aliphatic C21-C28	13.416	17.079	7186492.000	80.000	ug/ml
Aliphatic C28-C40	17.080	22.085	11519078.000	120.000	ug/ml
Aliphatic EPH	3.343	22.085	34163210.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC050825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068791.D**						
Aliphatic C9-C12	5774515.000	60.000	3.342	6.642	96241.917	99133.167	2.917
Aliphatic C12-C16	3617334.000	40.000	6.643	10.042	90433.350	90984.404	0.606
Aliphatic C16-C21	5106859.000	60.000	10.043	13.408	85114.317	85760.459	0.753
Aliphatic C21-C28	6727060.000	80.000	13.409	17.072	84088.250	83091.075	-1.200
Aliphatic C28-C40	10872761.000	120.000	17.073	22.071	90606.342	84622.692	-7.071
Aliphatic EPH	32098529.000	360.000	3.342	22.071	89162.581	87597.230	-1.787

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	08 May 2025 10:08
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068791.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.342	6.642	5774515.000	60.000	ug/ml
Aliphatic C12-C16	6.643	10.042	3617334.000	40.000	ug/ml
Aliphatic C16-C21	10.043	13.408	5106859.000	60.000	ug/ml
Aliphatic C21-C28	13.409	17.072	6727060.000	80.000	ug/ml
Aliphatic C28-C40	17.073	22.071	10872761.000	120.000	ug/ml
Aliphatic EPH	3.342	22.071	32098529.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC050825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068799.D**						
Aliphatic C9-C12	5278125.000	60.000	3.342	6.642	87968.750	99133.167	11.262
Aliphatic C12-C16	3477308.000	40.000	6.643	10.042	86932.700	90984.404	4.453
Aliphatic C16-C21	5056855.000	60.000	10.043	13.408	84280.917	85760.459	1.725
Aliphatic C21-C28	6614239.000	80.000	13.409	17.072	82677.988	83091.075	0.497
Aliphatic C28-C40	10921137.000	120.000	17.073	22.071	91009.475	84622.692	-7.547
Aliphatic EPH	31347664.000	360.000	3.342	22.071	87076.844	87597.230	0.594

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	08 May 2025 17:14
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068799.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.342	6.642	5278125.000	60.000	ug/ml
Aliphatic C12-C16	6.643	10.042	3477308.000	40.000	ug/ml
Aliphatic C16-C21	10.043	13.408	5056855.000	60.000	ug/ml
Aliphatic C21-C28	13.409	17.072	6614239.000	80.000	ug/ml
Aliphatic C28-C40	17.073	22.071	10921137.000	120.000	ug/ml
Aliphatic EPH	3.342	22.071	31347664.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC050825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068808.D**						
Aliphatic C9-C12	5298914.000	60.000	3.342	6.642	88315.233	99133.167	10.913
Aliphatic C12-C16	3471710.000	40.000	6.643	10.042	86792.750	90984.404	4.607
Aliphatic C16-C21	5061619.000	60.000	10.043	13.408	84360.317	85760.459	1.633
Aliphatic C21-C28	6674646.000	80.000	13.409	17.072	83433.075	83091.075	-0.412
Aliphatic C28-C40	11150242.000	120.000	17.073	22.071	92918.683	84622.692	-9.804
Aliphatic EPH	31657131.000	360.000	3.342	22.071	87936.475	87597.230	-0.387

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	08 May 2025 23:34
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068808.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.342	6.642	5298914.000	60.000	ug/ml
Aliphatic C12-C16	6.643	10.042	3471710.000	40.000	ug/ml
Aliphatic C16-C21	10.043	13.408	5061619.000	60.000	ug/ml
Aliphatic C21-C28	13.409	17.072	6674646.000	80.000	ug/ml
Aliphatic C28-C40	17.073	22.071	11150242.000	120.000	ug/ml
Aliphatic EPH	3.342	22.071	31657131.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD050225AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049309.D**						
Aromatic C10-C12	5512093.000	40.000	4.431	6.176	137802.325	128531.556	-7.213
Aromatic C12-C16	8771780.000	60.000	6.177	8.805	146196.333	135727.245	-7.713
Aromatic C16-C21	11059605.000	80.000	8.806	13.095	138245.063	131120.372	-5.434
Aromatic C21-C36	21342567.000	180.000	13.096	18.516	118569.817	117353.852	-1.036
Aromatic EPH	46686045.000	360.000	4.431	18.516	129683.458	124717.278	-3.982

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	02 May 2025 10:53
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049309.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.431	6.176	5512093.000	40.000	ug/ml
Aromatic C12-C16	6.177	8.805	8771780.000	60.000	ug/ml
Aromatic C16-C21	8.806	13.095	11059605.000	80.000	ug/ml
Aromatic C21-C36	13.096	18.516	21342567.000	180.000	ug/ml
Aromatic EPH	4.431	18.516	46686045.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD050225AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049315.D**						
Aromatic C10-C12	5180419.000	40.000	4.431	6.176	129510.475	128531.556	-0.762
Aromatic C12-C16	8441515.000	60.000	6.177	8.805	140691.917	135727.245	-3.658
Aromatic C16-C21	10922703.000	80.000	8.806	13.095	136533.788	131120.372	-4.129
Aromatic C21-C36	21099522.000	180.000	13.096	18.516	117219.567	117353.852	0.114
Aromatic EPH	45644159.000	360.000	4.431	18.516	126789.331	124717.278	-1.661

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	02 May 2025 15:56
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049315.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.431	6.176	5180419.000	40.000	ug/ml
Aromatic C12-C16	6.177	8.805	8441515.000	60.000	ug/ml
Aromatic C16-C21	8.806	13.095	10922703.000	80.000	ug/ml
Aromatic C21-C36	13.096	18.516	21099522.000	180.000	ug/ml
Aromatic EPH	4.431	18.516	45644159.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD050825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049318.D**						
Aromatic C10-C12	5420453.000	40.000	4.431	6.176	135511.325	128531.556	-5.430
Aromatic C12-C16	8502870.000	60.000	6.177	8.805	141714.500	135727.245	-4.411
Aromatic C16-C21	10349187.000	80.000	8.806	13.095	129364.838	131120.372	1.339
Aromatic C21-C36	20561899.000	180.000	13.0956	18.515	114232.772	117353.852	2.660
Aromatic EPH	44834409.000	360.000	4.431	18.515	124540.025	124717.278	0.142

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	08 May 2025 10:08
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049318.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.431	6.176	5420453.000	40.000	ug/ml
Aromatic C12-C16	6.177	8.805	8502870.000	60.000	ug/ml
Aromatic C16-C21	8.806	13.095	10349187.000	80.000	ug/ml
Aromatic C21-C36	13.0956	18.515	20561899.000	180.000	ug/ml
Aromatic EPH	4.431	18.515	44834409.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD050825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049325.D**						
Aromatic C10-C12	5652522.000	40.000	4.431	6.176	141313.050	128531.556	-9.944
Aromatic C12-C16	8979975.000	60.000	6.177	8.805	149666.250	135727.245	-10.270
Aromatic C16-C21	11477164.000	80.000	8.806	13.095	143464.550	131120.372	-9.414
Aromatic C21-C36	22885019.000	180.000	13.0956	18.515	127138.994	117353.852	-8.338
Aromatic EPH	48994680.000	360.000	4.431	18.515	136096.333	124717.278	-9.124

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	08 May 2025 16:36
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049325.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.431	6.176	5652522.000	40.000	ug/ml
Aromatic C12-C16	6.177	8.805	8979975.000	60.000	ug/ml
Aromatic C16-C21	8.806	13.095	11477164.000	80.000	ug/ml
Aromatic C21-C36	13.0956	18.515	22885019.000	180.000	ug/ml
Aromatic EPH	4.431	18.515	48994680.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD050825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049334.D**						
Aromatic C10-C12	5734262.000	40.000	4.431	6.176	143356.550	128531.556	-11.534
Aromatic C12-C16	9081487.000	60.000	6.177	8.805	151358.117	135727.245	-11.516
Aromatic C16-C21	11630703.000	80.000	8.806	13.095	145383.788	131120.372	-10.878
Aromatic C21-C36	23316285.000	180.000	13.0956	18.515	129534.917	117353.852	-10.380
Aromatic EPH	49762737.000	360.000	4.431	18.515	138229.825	124717.278	-10.835

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	08 May 2025 23:34
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049334.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.431	6.176	5734262.000	40.000	ug/ml
Aromatic C12-C16	6.177	8.805	9081487.000	60.000	ug/ml
Aromatic C16-C21	8.806	13.095	11630703.000	80.000	ug/ml
Aromatic C21-C36	13.0956	18.515	23316285.000	180.000	ug/ml
Aromatic EPH	4.431	18.515	49762737.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068800.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 18:31
Operator : YP/AJ
Sample : Q1901-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: May 09 09:08:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.145	4752739	59.242 ug/ml
Spiked Amount 50.000		Recovery = 118.48%	
Target Compounds			

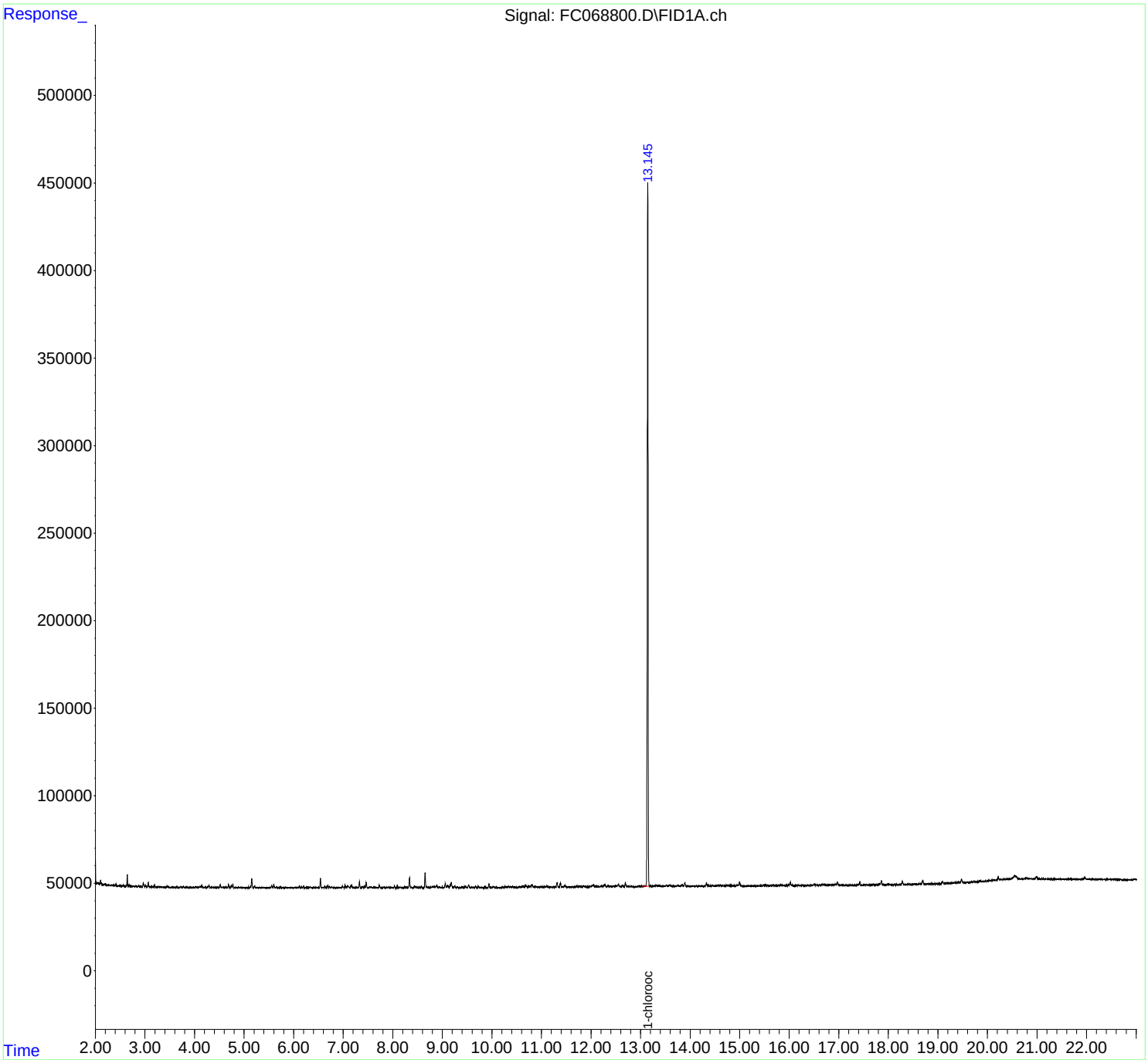
(f)=RT Delta > 1/2 Window (m)=manual int.

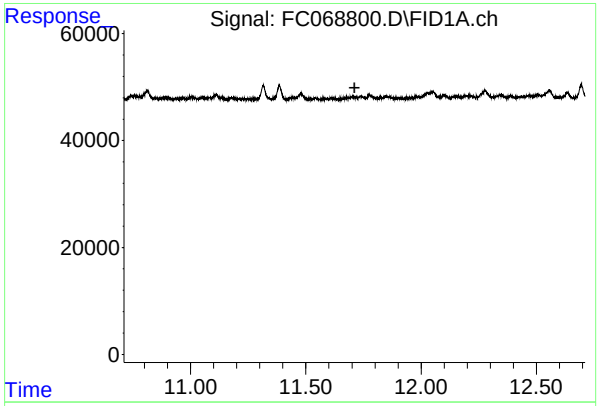
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068800.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 18:31
Operator : YP/AJ
Sample : Q1901-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: May 09 09:08:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

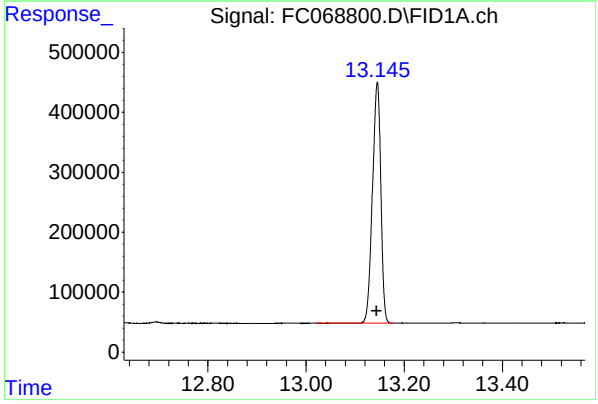




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.711 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-167-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.145 min
Delta R.T.: 0.001 min
Response: 4752739
Conc: 59.24 ug/ml

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068800.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 18:31
Sample : Q1901-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.155	5.040	5.189	BV	5424	69238	1.46%	1.366%
2	6.541	6.495	6.567	BB	5392	51650	1.09%	1.019%
3	7.328	7.297	7.365	BB	3517	37381	0.79%	0.737%
4	8.339	8.220	8.364	BB	5593	66747	1.40%	1.317%
5	8.653	8.599	8.707	BB	8566	91047	1.92%	1.796%
6	13.145	13.020	13.177	BB	402441	4752739	100.00%	93.765%
			Sum of corrected areas:			5068802		

Aliphatic EPH 050625.M Fri May 09 09:32:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049326.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 17:53
Operator : YP/AJ
Sample : Q1901-02
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: May 09 09:19:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.741	5920352	49.931 ug/ml
Spiked Amount 50.000		Recovery = 99.86%	
6) S 2-Flurobiphenyl (SURR)	8.606	3946659	49.975 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 99.95%	
11) S ortho-Terphenyl (SURR)	11.653	7896457	57.212 ug/ml
Spiked Amount 50.000		Recovery = 114.42%	
Target Compounds			

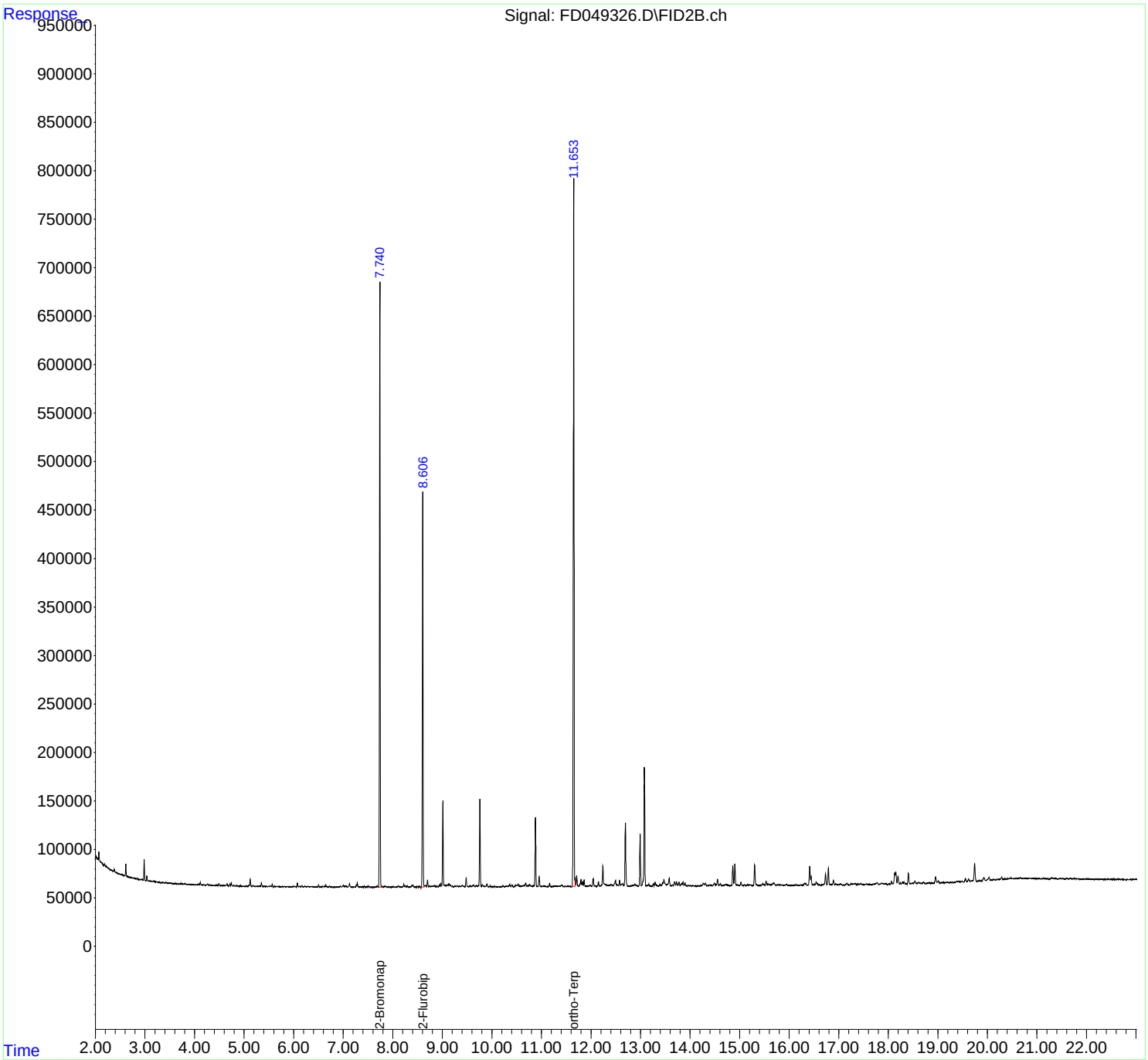
(f)=RT Delta > 1/2 Window (m)=manual int.

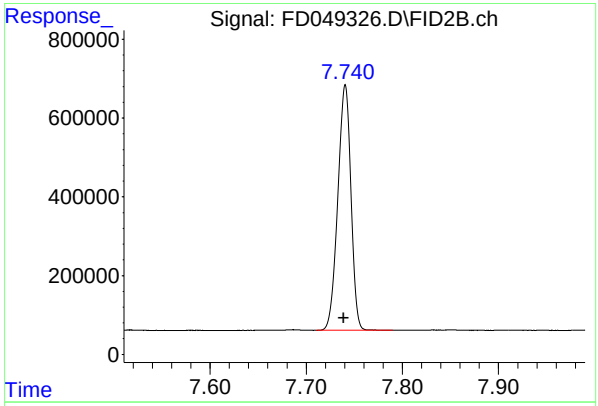
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049326.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 17:53
Operator : YP/AJ
Sample : Q1901-02
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: May 09 09:19:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

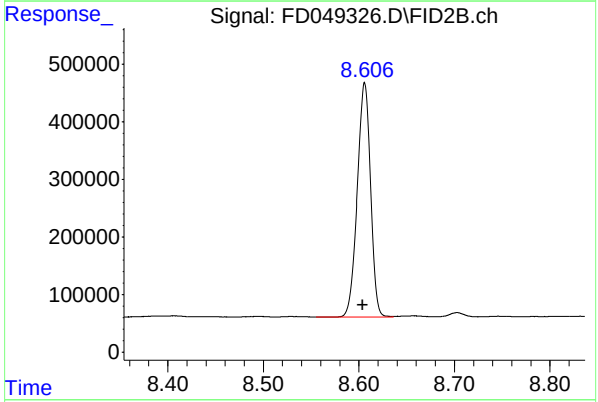




#4 2-Bromonaphthalene (SURR)

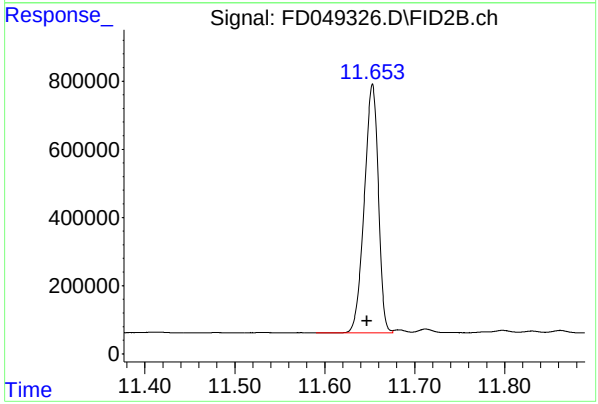
R.T.: 7.741 min
Delta R.T.: 0.002 min
Response: 5920352
Conc: 49.93 ug/ml

Instrument :
FID_D
ClientSampleId :
B-167-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.606 min
Delta R.T.: 0.003 min
Response: 3946659
Conc: 49.98 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.653 min
Delta R.T.: 0.006 min
Response: 7896457
Conc: 57.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049326.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 17:53
Sample : Q1901-02
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.264	4.252	4.286	PH	1376	14260	0.18%	0.042%
2	4.305	4.286	4.342	PV	519	6499	0.08%	0.019%
3	4.355	4.350	4.371	VV	210	1600	0.02%	0.005%
4	4.380	4.371	4.399	VV	183	1369	0.02%	0.004%
5	4.410	4.399	4.422	PV	220	1572	0.02%	0.005%
6	4.449	4.422	4.465	VV	566	8031	0.10%	0.024%
7	4.489	4.465	4.527	VV	2237	26841	0.34%	0.079%
8	4.533	4.527	4.550	VV	401	3101	0.04%	0.009%
9	4.557	4.550	4.562	VV	260	1349	0.02%	0.004%
10	4.569	4.562	4.592	VV	389	4454	0.06%	0.013%
11	4.605	4.592	4.628	VV	625	8009	0.10%	0.023%
12	4.656	4.628	4.682	VV	2469	32945	0.42%	0.097%
13	4.690	4.682	4.697	VV	306	1784	0.02%	0.005%
14	4.713	4.697	4.730	VV	2259	23469	0.30%	0.069%
15	4.743	4.730	4.774	VV	3405	32564	0.41%	0.095%
16	4.796	4.774	4.818	VV	724	8623	0.11%	0.025%
17	4.839	4.818	4.853	VV	564	6742	0.09%	0.020%
18	4.862	4.853	4.882	VV	617	6755	0.09%	0.020%
19	4.889	4.882	4.908	VV	246	2064	0.03%	0.006%
20	4.935	4.908	4.960	VV	663	8287	0.10%	0.024%
21	5.002	4.998	5.011	VV	309	1679	0.02%	0.005%
22	5.015	5.011	5.021	VV	207	1097	0.01%	0.003%
23	5.046	5.021	5.068	VV	591	8108	0.10%	0.024%
24	5.098	5.068	5.106	VV	1474	15691	0.20%	0.046%
25	5.123	5.106	5.153	VV	7399	79528	1.00%	0.233%
26	5.180	5.153	5.222	VV	1335	20908	0.26%	0.061%
27	5.233	5.222	5.280	VV	477	9002	0.11%	0.026%
28	5.283	5.280	5.295	VV	233	1682	0.02%	0.005%
29	5.314	5.295	5.333	VV	586	9183	0.12%	0.027%
30	5.349	5.333	5.391	VV	3997	44588	0.56%	0.131%
31	5.407	5.391	5.439	VV	455	7302	0.09%	0.021%
32	5.446	5.439	5.462	VV	338	3548	0.04%	0.010%
33	5.467	5.462	5.477	VV	328	2115	0.03%	0.006%
34	5.495	5.477	5.510	VV	701	8645	0.11%	0.025%
35	5.525	5.510	5.549	VV	1130	13987	0.18%	0.041%
36	5.568	5.549	5.585	VV	2834	26708	0.34%	0.078%

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37	5.623	5.585	5.639	VV	904	13271	0.17%	0.039%
38	5.662	5.639	5.670	VV	393	5739	0.07%	0.017%
39	5.686	5.670	5.695	VV	455	5406	0.07%	0.016%
40	5.706	5.695	5.729	VV	459	5402	0.07%	0.016%
41	5.739	5.729	5.748	VV	211	1311	0.02%	0.004%
42	5.778	5.748	5.792	VV	504	7802	0.10%	0.023%
43	5.815	5.792	5.840	VV	659	10009	0.13%	0.029%
44	5.846	5.840	5.853	VV	268	1781	0.02%	0.005%
45	5.861	5.853	5.867	VV	437	2415	0.03%	0.007%
46	5.879	5.867	5.924	VV	411	7461	0.09%	0.022%
47	5.947	5.934	5.955	PV	167	1246	0.02%	0.004%
48	5.985	5.963	6.004	VV	986	12795	0.16%	0.038%
49	6.015	6.004	6.022	VV	552	3767	0.05%	0.011%
50	6.034	6.022	6.056	VV	438	6773	0.09%	0.020%
51	6.077	6.056	6.107	VV	4125	44068	0.56%	0.129%
52	6.123	6.107	6.147	VV	762	9736	0.12%	0.029%
53	6.164	6.147	6.197	VV	1674	19724	0.25%	0.058%
54	6.202	6.197	6.206	VV	340	1482	0.02%	0.004%
55	6.223	6.206	6.239	VV	1014	12117	0.15%	0.036%
56	6.247	6.239	6.261	VV	480	4716	0.06%	0.014%
57	6.298	6.261	6.327	VV	878	18141	0.23%	0.053%
58	6.334	6.327	6.340	VV	398	2359	0.03%	0.007%
59	6.356	6.340	6.381	VV	674	11686	0.15%	0.034%
60	6.385	6.381	6.398	VV	286	2197	0.03%	0.006%
61	6.407	6.398	6.415	VV	210	1305	0.02%	0.004%
62	6.432	6.423	6.462	VV	290	5282	0.07%	0.015%
63	6.470	6.462	6.480	VV	360	2917	0.04%	0.009%
64	6.503	6.480	6.531	VV	2363	27418	0.35%	0.080%
65	6.542	6.531	6.560	VV	457	6016	0.08%	0.018%
66	6.567	6.560	6.571	VV	464	2280	0.03%	0.007%
67	6.587	6.571	6.612	VV	1161	12953	0.16%	0.038%
68	6.624	6.612	6.638	VV	973	10428	0.13%	0.031%
69	6.652	6.638	6.674	VV	2132	23264	0.29%	0.068%
70	6.688	6.674	6.703	VV	690	7930	0.10%	0.023%
71	6.725	6.703	6.743	VV	1193	13340	0.17%	0.039%
72	6.753	6.743	6.802	VV	280	8479	0.11%	0.025%
73	6.826	6.802	6.849	PV	540	7703	0.10%	0.023%
74	6.863	6.849	6.870	VV	302	2430	0.03%	0.007%
75	6.880	6.870	6.887	VV	411	2941	0.04%	0.009%
76	6.889	6.887	6.912	VV	378	3082	0.04%	0.009%
77	6.946	6.921	6.978	VV	1348	19435	0.25%	0.057%
78	6.998	6.978	7.034	VV	1936	37530	0.47%	0.110%
79	7.047	7.034	7.096	VV	1463	32471	0.41%	0.095%
80	7.128	7.096	7.175	VV	3811	57886	0.73%	0.170%
81	7.180	7.175	7.185	VV	340	1872	0.02%	0.005%
82	7.195	7.185	7.203	VV	365	3536	0.04%	0.010%
83	7.208	7.203	7.218	VV	417	3227	0.04%	0.009%
84	7.233	7.218	7.248	VV	478	6803	0.09%	0.020%
85	7.265	7.248	7.274	VV	2765	25528	0.32%	0.075%
86	7.286	7.274	7.322	VV	4622	54031	0.68%	0.158%
87	7.341	7.322	7.356	VV	686	8242	0.10%	0.024%
88	7.366	7.356	7.378	VV	630	6403	0.08%	0.019%
89	7.391	7.378	7.405	VV	1008	10793	0.14%	0.032%

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90	7.423	7.405	7.443	VV	1355	18823	0.24%	0.055%
91	7.459	7.443	7.473	VV	626	7711	0.10%	0.023%
92	7.491	7.473	7.503	VV	950	11846	0.15%	0.035%
93	7.517	7.503	7.549	VV	1167	16520	0.21%	0.048%
94	7.554	7.549	7.572	VV	293	2150	0.03%	0.006%
95	7.579	7.572	7.583	VV	388	1941	0.02%	0.006%
96	7.587	7.583	7.616	VV	383	2806	0.04%	0.008%
97	7.657	7.616	7.670	PV	705	11901	0.15%	0.035%
98	7.687	7.670	7.709	VV	1956	24684	0.31%	0.072%
99	7.741	7.709	7.795	VV	623537	5944875	75.11%	17.429%
100	7.799	7.795	7.818	VV	803	8490	0.11%	0.025%
101	7.832	7.818	7.843	VV	1224	13604	0.17%	0.040%
102	7.854	7.843	7.879	VV	1340	17847	0.23%	0.052%
103	7.883	7.879	7.893	VV	482	3019	0.04%	0.009%
104	7.907	7.893	7.938	VV	720	12982	0.16%	0.038%
105	7.946	7.938	7.972	VV	645	6342	0.08%	0.019%
106	7.989	7.972	8.035	VV	881	21524	0.27%	0.063%
107	8.045	8.035	8.050	VV	440	3644	0.05%	0.011%
108	8.055	8.050	8.065	VV	489	3421	0.04%	0.010%
109	8.104	8.065	8.113	VV	1235	20494	0.26%	0.060%
110	8.122	8.113	8.168	VV	1239	17757	0.22%	0.052%
111	8.197	8.168	8.207	VV	950	14078	0.18%	0.041%
112	8.223	8.207	8.240	VV	3013	33660	0.43%	0.099%
113	8.252	8.240	8.278	VV	1938	24458	0.31%	0.072%
114	8.293	8.278	8.311	VV	2056	21572	0.27%	0.063%
115	8.325	8.311	8.340	VV	381	5995	0.08%	0.018%
116	8.346	8.340	8.351	VV	376	2116	0.03%	0.006%
117	8.390	8.351	8.395	VV	1853	27198	0.34%	0.080%
118	8.407	8.395	8.428	VV	2183	30100	0.38%	0.088%
119	8.442	8.428	8.470	VV	847	13669	0.17%	0.040%
120	8.495	8.470	8.512	VV	1116	16591	0.21%	0.049%
121	8.529	8.512	8.562	VV	1103	15995	0.20%	0.047%
122	8.606	8.562	8.636	PV	406801	3955191	49.97%	11.596%
123	8.657	8.636	8.680	VV	2147	39609	0.50%	0.116%
124	8.703	8.680	8.725	VV	7793	87713	1.11%	0.257%
125	8.747	8.725	8.770	VV	1499	26383	0.33%	0.077%
126	8.782	8.770	8.791	VV	1140	11450	0.14%	0.034%
127	8.809	8.791	8.820	VV	1253	18312	0.23%	0.054%
128	8.833	8.820	8.840	VV	1395	15578	0.20%	0.046%
129	8.851	8.840	8.878	VV	1758	26492	0.33%	0.078%
130	8.894	8.878	8.915	VV	1011	16327	0.21%	0.048%
131	8.945	8.915	8.960	VV	2418	36510	0.46%	0.107%
132	8.974	8.960	8.990	VV	4383	47456	0.60%	0.139%
133	9.013	8.990	9.036	VV	89386	877386	11.09%	2.572%
134	9.044	9.036	9.063	VV	2412	32876	0.42%	0.096%
135	9.068	9.063	9.082	VV	1839	17732	0.22%	0.052%
136	9.099	9.082	9.118	VV	2822	47172	0.60%	0.138%
137	9.132	9.118	9.158	VV	3893	64982	0.82%	0.191%
138	9.166	9.158	9.187	VV	2188	27062	0.34%	0.079%
139	9.202	9.187	9.219	VV	1401	18622	0.24%	0.055%
140	9.223	9.219	9.227	VV	418	1785	0.02%	0.005%
141	9.265	9.227	9.281	VV	1399	29016	0.37%	0.085%

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142	9.298	9.281	9.318	VV	1913	26694	0.34%	0.078%
143	9.338	9.318	9.383	VV	1169	33732	0.43%	0.099%
144	9.402	9.383	9.432	VV	1979	40088	0.51%	0.118%
145	9.444	9.432	9.456	VV	967	11621	0.15%	0.034%
146	9.483	9.456	9.535	VV	9436	123483	1.56%	0.362%
147	9.561	9.535	9.593	VV	1566	35287	0.45%	0.103%
148	9.606	9.593	9.617	VV	1564	18455	0.23%	0.054%
149	9.635	9.617	9.657	VV	2514	38728	0.49%	0.114%
150	9.667	9.657	9.674	VV	931	8317	0.11%	0.024%
151	9.694	9.674	9.712	VV	2023	29739	0.38%	0.087%
152	9.729	9.712	9.737	VV	1928	21741	0.27%	0.064%
153	9.760	9.737	9.787	VV	90935	925959	11.70%	2.715%
154	9.806	9.787	9.822	VV	2668	38971	0.49%	0.114%
155	9.829	9.822	9.854	VV	1505	18801	0.24%	0.055%
156	9.860	9.854	9.872	VV	544	5272	0.07%	0.015%
157	9.904	9.872	9.949	VV	3121	57613	0.73%	0.169%
158	9.967	9.949	9.989	VV	1149	17730	0.22%	0.052%
159	9.996	9.989	10.025	VV	626	9408	0.12%	0.028%
160	10.044	10.025	10.056	VV	574	8520	0.11%	0.025%
161	10.074	10.056	10.108	VV	740	14618	0.18%	0.043%
162	10.114	10.108	10.126	PV	157	1350	0.02%	0.004%
163	10.167	10.126	10.185	VV	493	8803	0.11%	0.026%
164	10.220	10.185	10.227	VV	964	17576	0.22%	0.052%
165	10.230	10.227	10.261	VV	921	12546	0.16%	0.037%
166	10.283	10.261	10.302	VV	1030	16996	0.21%	0.050%
167	10.317	10.302	10.325	VV	1070	12084	0.15%	0.035%
168	10.327	10.325	10.340	VV	1133	8776	0.11%	0.026%
169	10.362	10.340	10.387	VV	2783	43382	0.55%	0.127%
170	10.404	10.387	10.451	VV	2224	42313	0.53%	0.124%
171	10.481	10.451	10.498	VV	2178	35862	0.45%	0.105%
172	10.503	10.498	10.512	VV	1458	11518	0.15%	0.034%
173	10.531	10.512	10.550	VV	3454	46269	0.58%	0.136%
174	10.559	10.550	10.570	VV	1234	12822	0.16%	0.038%
175	10.576	10.570	10.592	VV	1151	12143	0.15%	0.036%
176	10.613	10.592	10.632	VV	1151	23781	0.30%	0.070%
177	10.648	10.632	10.661	VV	2060	25078	0.32%	0.074%
178	10.684	10.661	10.704	VV	4040	62844	0.79%	0.184%
179	10.714	10.704	10.732	VV	1545	20834	0.26%	0.061%
180	10.758	10.732	10.797	VV	2402	56233	0.71%	0.165%
181	10.814	10.797	10.832	VV	1008	16009	0.20%	0.047%
182	10.850	10.832	10.858	VV	1675	17649	0.22%	0.052%
183	10.881	10.858	10.919	VV	71890	748861	9.46%	2.195%
184	10.924	10.919	10.930	VV	490	3010	0.04%	0.009%
185	10.955	10.930	10.980	VV	10764	123537	1.56%	0.362%
186	10.993	10.980	11.017	VV	634	11038	0.14%	0.032%
187	11.028	11.017	11.037	VV	760	6284	0.08%	0.018%
188	11.054	11.037	11.095	VV	1139	23776	0.30%	0.070%
189	11.101	11.095	11.108	VV	343	1873	0.02%	0.005%
190	11.114	11.108	11.122	VV	284	1821	0.02%	0.005%
191	11.132	11.122	11.145	VV	337	3808	0.05%	0.011%
192	11.164	11.145	11.213	VV	3610	45813	0.58%	0.134%
193	11.256	11.213	11.261	VV	875	15520	0.20%	0.046%
194	11.264	11.261	11.272	VV	899	5710	0.07%	0.017%

rteres

195	11.276	11.272	11.297	VV	917	10847	0.14%	0.032%
196	11.304	11.297	11.311	VV	677	5223	0.07%	0.015%
197	11.328	11.311	11.354	VV	1203	18375	0.23%	0.054%
198	11.416	11.354	11.449	VV	2020	55496	0.70%	0.163%
199	11.479	11.449	11.499	VV	1019	14116	0.18%	0.041%
200	11.532	11.499	11.555	PV	1290	20956	0.26%	0.061%
201	11.573	11.555	11.590	VV	864	10324	0.13%	0.030%
202	11.606	11.590	11.612	VV	396	4219	0.05%	0.012%
203	11.653	11.612	11.676	VV	731199	7914551	100.00%	23.203%
204	11.682	11.676	11.697	VV	9204	82553	1.04%	0.242%
205	11.712	11.697	11.736	VV	11299	128257	1.62%	0.376%
206	11.743	11.736	11.758	VV	1306	12914	0.16%	0.038%
207	11.798	11.758	11.816	VV	7435	122782	1.55%	0.360%
208	11.831	11.816	11.845	VV	5529	64016	0.81%	0.188%
209	11.862	11.845	11.888	VV	7344	84777	1.07%	0.249%
210	11.900	11.888	11.910	VV	633	5779	0.07%	0.017%
211	11.930	11.910	11.952	VV	851	15190	0.19%	0.045%
212	11.985	11.952	12.011	VV	1441	34824	0.44%	0.102%
213	12.045	12.011	12.072	VV	8507	120882	1.53%	0.354%
214	12.084	12.072	12.107	VV	1120	15792	0.20%	0.046%
215	12.151	12.107	12.183	VV	5143	73916	0.93%	0.217%
216	12.238	12.183	12.279	VV	21506	313026	3.96%	0.918%
217	12.292	12.279	12.318	VV	2459	47407	0.60%	0.139%
218	12.324	12.318	12.341	VV	1464	18113	0.23%	0.053%
219	12.356	12.341	12.382	VV	1594	33308	0.42%	0.098%
220	12.401	12.382	12.412	VV	2212	32107	0.41%	0.094%
221	12.423	12.412	12.451	VV	1863	32091	0.41%	0.094%
222	12.495	12.451	12.515	VV	6597	127840	1.62%	0.375%
223	12.525	12.515	12.557	VV	2518	39757	0.50%	0.117%
224	12.578	12.557	12.596	VV	6508	83551	1.06%	0.245%
225	12.615	12.596	12.623	VV	2625	33509	0.42%	0.098%
226	12.639	12.623	12.658	VV	3053	46664	0.59%	0.137%
227	12.694	12.658	12.747	VV	65734	761880	9.63%	2.234%
228	12.754	12.747	12.777	VV	716	9130	0.12%	0.027%
229	12.829	12.777	12.836	VV	1261	26269	0.33%	0.077%
230	12.848	12.836	12.864	VV	1505	20314	0.26%	0.060%
231	12.883	12.864	12.898	VV	2932	38213	0.48%	0.112%
232	12.903	12.898	12.944	VV	1500	27682	0.35%	0.081%
233	12.957	12.944	12.965	VV	773	7464	0.09%	0.022%
234	12.991	12.965	13.016	VV	54579	582104	7.35%	1.707%
235	13.078	13.016	13.108	VV	123381	1475799	18.65%	4.327%
236	13.129	13.108	13.146	VV	1095	18906	0.24%	0.055%
237	13.164	13.146	13.185	VV	2397	31688	0.40%	0.093%
238	13.200	13.185	13.220	VV	821	10158	0.13%	0.030%
239	13.258	13.220	13.277	PV	2887	44057	0.56%	0.129%
240	13.296	13.277	13.318	VV	4480	63694	0.80%	0.187%
241	13.326	13.318	13.349	VV	1611	18764	0.24%	0.055%
242	13.358	13.349	13.363	VV	411	2987	0.04%	0.009%
243	13.387	13.363	13.403	VV	2025	27585	0.35%	0.081%
244	13.411	13.403	13.428	VV	1218	16585	0.21%	0.049%
245	13.450	13.428	13.459	VV	4224	55301	0.70%	0.162%
246	13.472	13.459	13.537	VV	6962	152983	1.93%	0.449%

rteres

247	13.577	13.537	13.616	VV	8451	156298	1.97%	0.458%
248	13.621	13.616	13.623	VV	591	2358	0.03%	0.007%
249	13.647	13.623	13.663	VV	1669	24970	0.32%	0.073%
250	13.687	13.663	13.708	VV	4573	71917	0.91%	0.211%
251	13.726	13.708	13.752	VV	4618	64845	0.82%	0.190%
252	13.778	13.752	13.800	VV	4436	71160	0.90%	0.209%
253	13.832	13.800	13.839	VV	2473	42407	0.54%	0.124%
254	13.855	13.839	13.875	VV	4365	58742	0.74%	0.172%
255	13.896	13.875	13.940	VV	3558	57472	0.73%	0.168%
256	13.969	13.940	13.987	VV	799	15329	0.19%	0.045%
257	14.008	13.987	14.019	VV	782	10164	0.13%	0.030%
258	14.024	14.019	14.042	VV	433	5098	0.06%	0.015%
259	14.057	14.042	14.072	VV	587	9062	0.11%	0.027%
260	14.079	14.072	14.092	VV	577	5442	0.07%	0.016%
261	14.100	14.092	14.123	VV	451	4960	0.06%	0.015%
262	14.133	14.123	14.147	VV	256	1830	0.02%	0.005%
263	14.168	14.147	14.185	VV	589	7959	0.10%	0.023%
264	14.220	14.185	14.235	VV	1030	15951	0.20%	0.047%
265	14.264	14.235	14.289	VV	3200	60581	0.77%	0.178%
266	14.308	14.289	14.349	VV	3212	55985	0.71%	0.164%
267	14.393	14.349	14.399	VV	984	21069	0.27%	0.062%
268	14.416	14.399	14.452	VV	1247	26395	0.33%	0.077%
269	14.491	14.452	14.512	VV	3129	62669	0.79%	0.184%
270	14.516	14.512	14.532	VV	1336	15361	0.19%	0.045%
271	14.553	14.532	14.576	VV	7068	92042	1.16%	0.270%
272	14.581	14.576	14.592	VV	1089	9851	0.12%	0.029%
273	14.610	14.592	14.643	VV	2685	42731	0.54%	0.125%
274	14.648	14.643	14.653	VV	542	2751	0.03%	0.008%
275	14.679	14.653	14.687	VV	1074	14907	0.19%	0.044%
276	14.707	14.687	14.719	VV	1328	20820	0.26%	0.061%
277	14.738	14.719	14.751	VV	1596	26018	0.33%	0.076%
278	14.758	14.751	14.803	VV	1236	22414	0.28%	0.066%
279	14.818	14.803	14.833	VV	602	6521	0.08%	0.019%
280	14.861	14.833	14.881	VV	21164	254118	3.21%	0.745%
281	14.902	14.881	14.940	VV	22748	295340	3.73%	0.866%
282	14.945	14.940	14.960	VV	1114	12013	0.15%	0.035%
283	14.967	14.960	14.990	VV	1174	14269	0.18%	0.042%
284	14.997	14.990	15.001	VV	690	3653	0.05%	0.011%
285	15.025	15.001	15.055	VV	4052	57743	0.73%	0.169%
286	15.062	15.055	15.074	VV	780	7348	0.09%	0.022%
287	15.098	15.074	15.130	VV	1443	24192	0.31%	0.071%
288	15.159	15.130	15.186	PV	1727	29644	0.37%	0.087%
289	15.201	15.186	15.213	VV	1363	17556	0.22%	0.051%
290	15.224	15.213	15.255	VV	1135	18171	0.23%	0.053%
291	15.260	15.255	15.265	VV	418	1923	0.02%	0.006%
292	15.301	15.265	15.388	VV	21908	320079	4.04%	0.938%
293	15.394	15.388	15.417	VV	628	8416	0.11%	0.025%
294	15.424	15.417	15.430	VV	771	5044	0.06%	0.015%
295	15.463	15.430	15.483	VV	2225	44030	0.56%	0.129%
296	15.493	15.483	15.511	VV	1564	21450	0.27%	0.063%
297	15.533	15.511	15.554	VV	4939	68788	0.87%	0.202%
298	15.570	15.554	15.589	VV	2690	36017	0.46%	0.106%
299	15.615	15.589	15.633	VV	1295	27866	0.35%	0.082%

rteres

300	15.671	15.633	15.683	VV	2493	49256	0.62%	0.144%
301	15.697	15.683	15.727	VV	2645	45585	0.58%	0.134%
302	15.771	15.727	15.798	VV	1538	37341	0.47%	0.109%
303	15.816	15.798	15.840	VV	1292	20610	0.26%	0.060%
304	15.857	15.840	15.881	VV	1129	17580	0.22%	0.052%
305	15.890	15.881	15.900	VV	516	5200	0.07%	0.015%
306	15.905	15.900	15.915	VV	621	4174	0.05%	0.012%
307	15.945	15.915	15.982	VV	1411	32213	0.41%	0.094%
308	15.999	15.982	16.021	VV	680	11937	0.15%	0.035%
309	16.029	16.021	16.047	VV	356	3966	0.05%	0.012%
310	16.053	16.047	16.075	VV	263	2817	0.04%	0.008%
311	16.088	16.075	16.107	VV	532	7300	0.09%	0.021%
312	16.140	16.107	16.160	VV	1308	23412	0.30%	0.069%
313	16.166	16.160	16.196	VV	561	6708	0.08%	0.020%
314	16.206	16.196	16.212	VV	364	2427	0.03%	0.007%
315	16.219	16.212	16.225	VV	539	3362	0.04%	0.010%
316	16.239	16.225	16.267	VV	831	13925	0.18%	0.041%
317	16.281	16.267	16.287	VV	693	6345	0.08%	0.019%
318	16.312	16.287	16.330	VV	2732	43887	0.55%	0.129%
319	16.339	16.330	16.364	VV	1920	23221	0.29%	0.068%
320	16.413	16.364	16.430	VV	19865	277737	3.51%	0.814%
321	16.441	16.430	16.482	VV	9393	119155	1.51%	0.349%
322	16.508	16.482	16.524	VV	1625	27781	0.35%	0.081%
323	16.544	16.524	16.632	VV	3682	95409	1.21%	0.280%
324	16.635	16.632	16.648	VV	675	4704	0.06%	0.014%
325	16.662	16.648	16.673	VV	926	10791	0.14%	0.032%
326	16.732	16.673	16.759	VV	11975	185452	2.34%	0.544%
327	16.789	16.759	16.840	VV	17869	240591	3.04%	0.705%
328	16.892	16.840	16.920	VV	5575	92756	1.17%	0.272%
329	16.942	16.920	16.974	VV	1830	35416	0.45%	0.104%
330	16.980	16.974	16.985	VV	717	4261	0.05%	0.012%
331	17.032	16.985	17.082	VV	1450	50832	0.64%	0.149%
332	17.097	17.082	17.115	VV	677	7816	0.10%	0.023%
333	17.128	17.115	17.131	PV	592	3318	0.04%	0.010%
334	17.161	17.131	17.189	VV	2032	44894	0.57%	0.132%
335	17.196	17.189	17.214	VV	945	8894	0.11%	0.026%
336	17.252	17.214	17.270	VV	1855	29855	0.38%	0.088%
337	17.290	17.270	17.302	VV	1389	22359	0.28%	0.066%
338	17.317	17.302	17.323	VV	1461	14803	0.19%	0.043%
339	17.336	17.323	17.355	VV	1531	22487	0.28%	0.066%
340	17.375	17.355	17.392	VV	1287	19081	0.24%	0.056%
341	17.403	17.392	17.420	VV	943	12712	0.16%	0.037%
342	17.424	17.420	17.427	VV	776	2754	0.03%	0.008%
343	17.446	17.427	17.475	VV	1635	28863	0.36%	0.085%
344	17.491	17.475	17.507	VV	681	8318	0.11%	0.024%
345	17.519	17.507	17.525	VV	439	3999	0.05%	0.012%
346	17.561	17.525	17.577	VV	879	19219	0.24%	0.056%
347	17.580	17.577	17.591	VV	544	4015	0.05%	0.012%
348	17.597	17.591	17.605	VV	457	2991	0.04%	0.009%
349	17.614	17.605	17.640	VV	434	8154	0.10%	0.024%
350	17.660	17.654	17.679	VV	378	2575	0.03%	0.008%
351	17.701	17.679	17.715	VV	717	11107	0.14%	0.033%

rteres

352	17.747	17.715	17.753	VV	1163	18815	0.24%	0.055%
353	17.777	17.753	17.804	VV	2217	39099	0.49%	0.115%
354	17.867	17.804	17.875	VV	1412	29941	0.38%	0.088%
355	17.880	17.875	17.902	VV	1249	12518	0.16%	0.037%
356	17.921	17.902	17.929	VV	798	10097	0.13%	0.030%
357	17.941	17.929	17.973	VV	953	15636	0.20%	0.046%
358	17.992	17.973	18.007	VV	503	6566	0.08%	0.019%
359	18.021	18.007	18.039	VV	429	5115	0.06%	0.015%
360	18.063	18.039	18.085	PV	2779	38002	0.48%	0.111%
361	18.093	18.085	18.102	VV	710	7085	0.09%	0.021%
362	18.128	18.102	18.138	VV	11631	148047	1.87%	0.434%
363	18.150	18.138	18.174	VV	12675	179587	2.27%	0.526%
364	18.194	18.174	18.225	VV	8333	124600	1.57%	0.365%
365	18.237	18.225	18.262	VV	962	14156	0.18%	0.042%
366	18.286	18.262	18.300	VV	2283	32141	0.41%	0.094%
367	18.317	18.300	18.342	VV	2233	32053	0.40%	0.094%
368	18.352	18.342	18.370	VV	535	5293	0.07%	0.016%
369	18.405	18.370	18.441	VV	11153	142857	1.80%	0.419%
370	18.446	18.441	18.457	VV	417	3388	0.04%	0.010%
371	18.463	18.457	18.468	VV	238	1536	0.02%	0.005%
372	18.491	18.468	18.508	VV	815	11894	0.15%	0.035%
373	18.537	18.508	18.583	VV	3131	51310	0.65%	0.150%
374	18.606	18.583	18.630	VV	1719	25508	0.32%	0.075%
375	18.634	18.630	18.653	VV	558	5416	0.07%	0.016%
376	18.660	18.653	18.672	VV	284	2103	0.03%	0.006%
377	18.712	18.672	18.742	VV	1251	24138	0.30%	0.071%
378	18.745	18.742	18.758	VV	255	2163	0.03%	0.006%
379	18.777	18.758	18.793	VV	305	4559	0.06%	0.013%
380	18.805	18.793	18.818	VV	422	4593	0.06%	0.013%
381	18.839	18.818	18.863	VV	658	11094	0.14%	0.033%
382	18.878	18.863	18.885	VV	459	4376	0.06%	0.013%
383	18.889	18.885	18.898	VV	362	1474	0.02%	0.004%
384	18.918	18.898	18.923	PV	423	4364	0.06%	0.013%
385	18.953	18.923	18.983	VV	6097	90180	1.14%	0.264%

Sum of corrected areas: 34109697

Aromatic EPH 050125.M Fri May 09 09:49:23 2025

Quantitation Report (QT Reviewed)

Sample Results: **FC068801.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068801.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 19:09
Operator : YP/AJ
Sample : Q1901-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: May 09 09:09:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.143	3145610	39.209 ug/ml
Spiked Amount 50.000		Recovery = 78.42%	
Target Compounds			

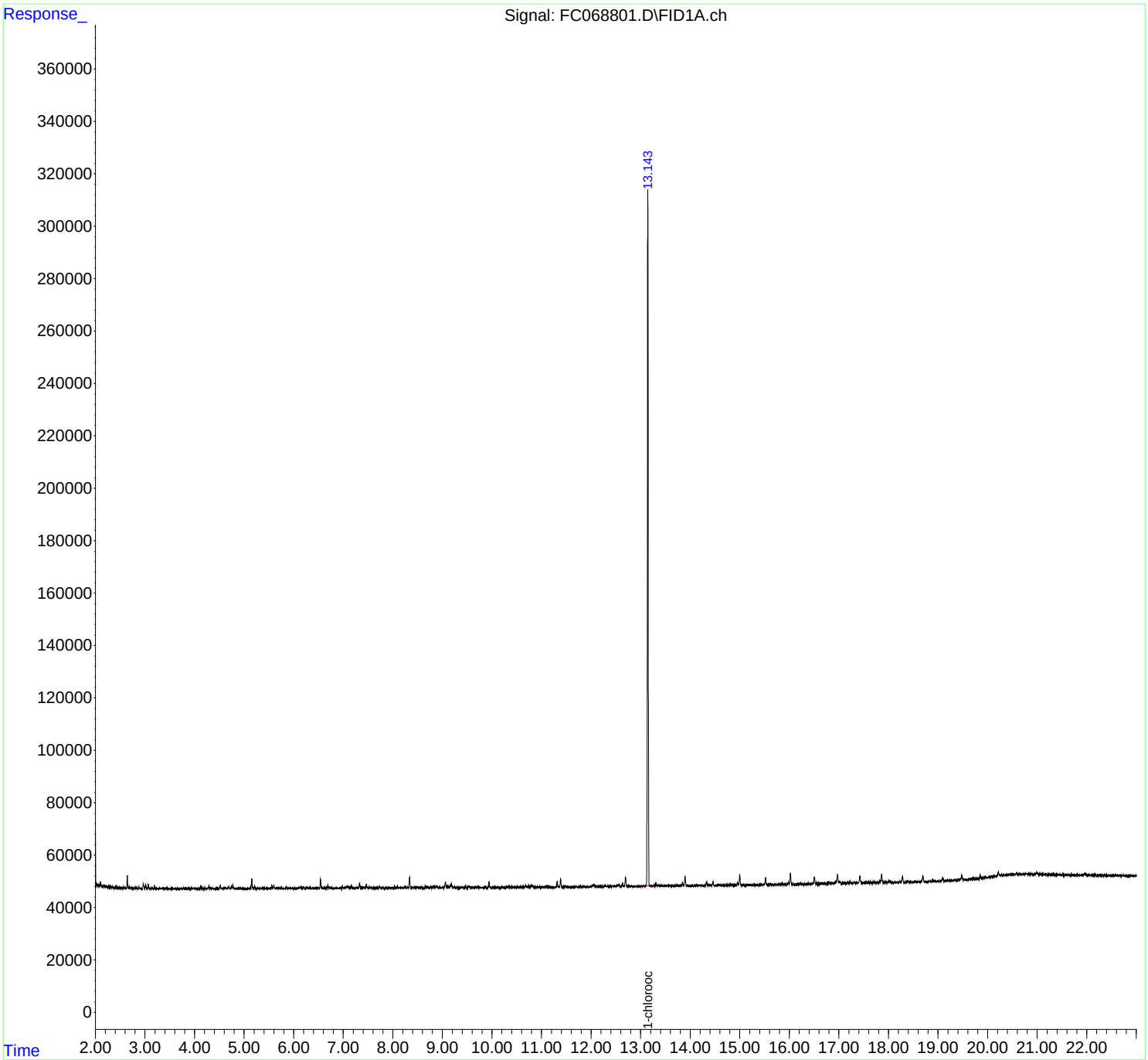
(f)=RT Delta > 1/2 Window (m)=manual int.

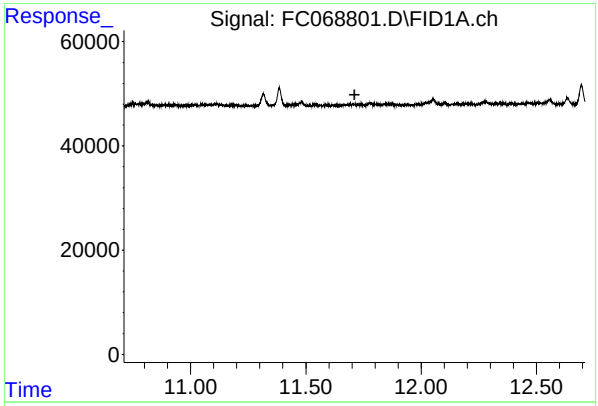
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068801.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 19:09
Operator : YP/AJ
Sample : Q1901-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: May 09 09:09:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

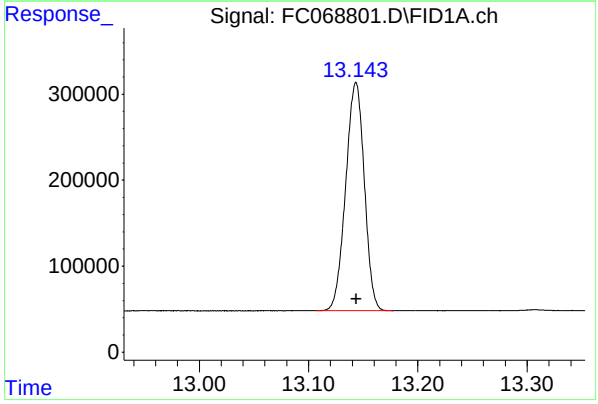




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.711 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-170-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.143 min
Delta R.T.: 0.000 min
Response: 3145610
Conc: 39.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068801.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 19:09
Sample : Q1901-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.155	5.083	5.187	BV	3765	41105	1.31%	1.157%
2	6.542	6.492	6.577	BB	3535	35491	1.13%	0.999%
3	8.339	8.293	8.385	BB	4028	44047	1.40%	1.240%
4	11.385	11.340	11.413	BB	3355	40300	1.28%	1.134%
5	12.695	12.665	12.738	BB	3665	45483	1.45%	1.280%
6	13.143	13.107	13.177	BB	266217	3145610	100.00%	88.524%
7	13.894	13.867	13.940	PB	3727	47931	1.52%	1.349%
8	14.997	14.970	15.025	VB	3990	52517	1.67%	1.478%
9	16.020	15.997	16.055	VB	4078	51959	1.65%	1.462%
10	16.970	16.903	16.998	BV	3299	48942	1.56%	1.377%

Sum of corrected areas: 3553385

Aliphatic EPH 050625.M Fri May 09 09:33:12 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049327.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049327.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 18:31
Operator : YP/AJ
Sample : Q1901-03
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: May 09 09:20:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.742	7294212	61.518 ug/ml
Spiked Amount 50.000		Recovery = 123.04%	
6) S 2-Flurobiphenyl (SURR)	8.608	5025132	63.632 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 127.26%	
11) S ortho-Terphenyl (SURR)	11.652	5845951	42.356 ug/ml
Spiked Amount 50.000		Recovery = 84.71%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

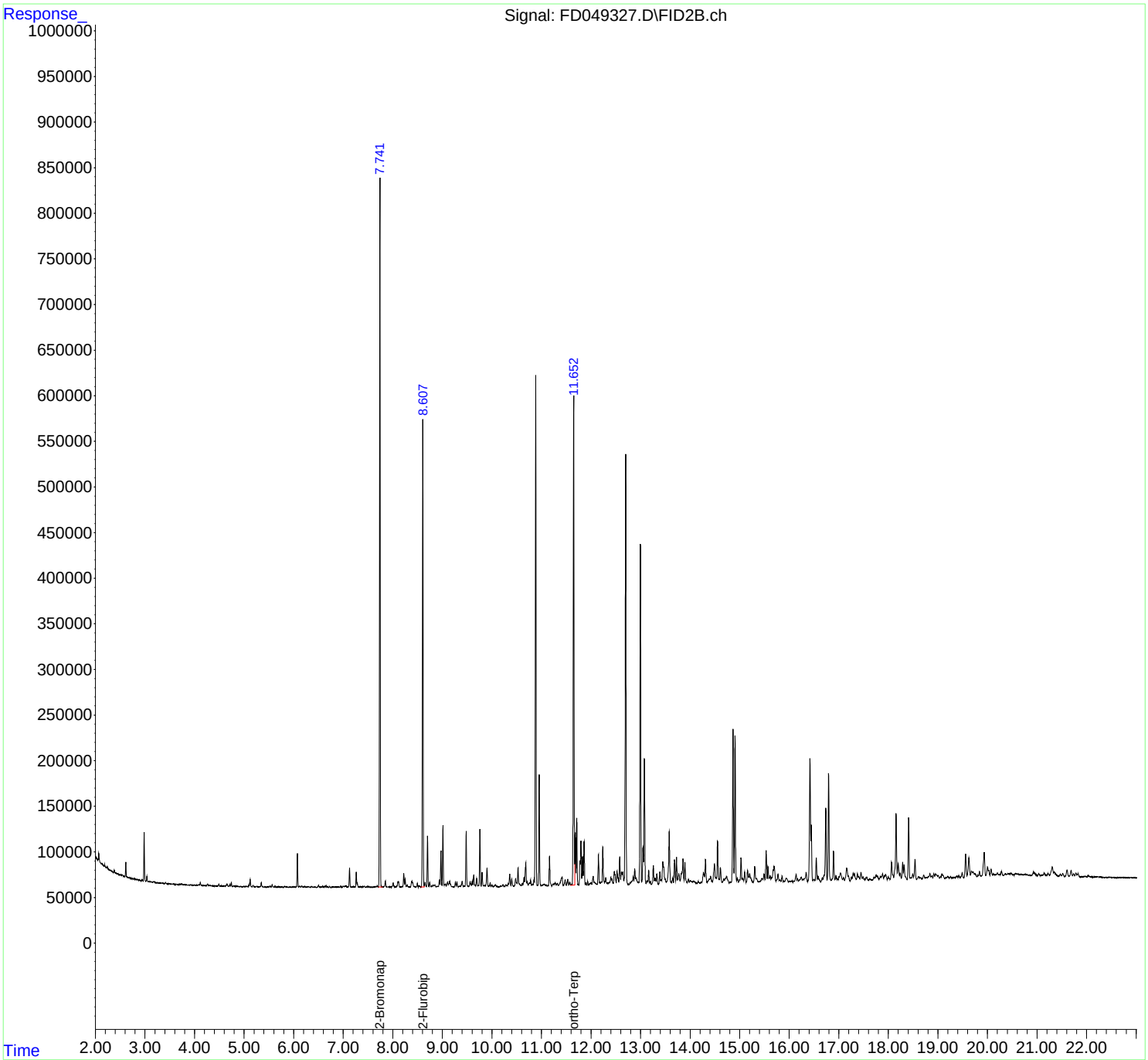
Sample Results: **FD049327.D**

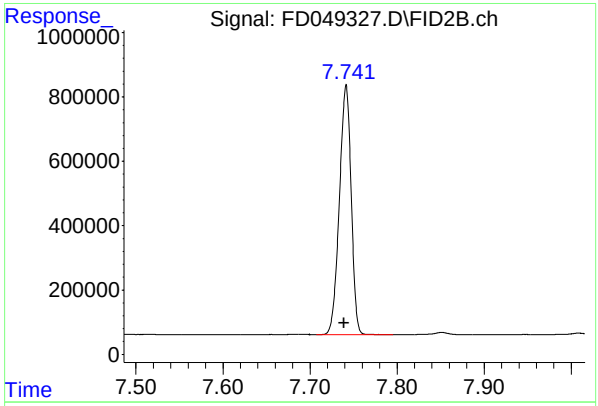
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049327.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 18:31
Operator : YP/AJ
Sample : Q1901-03
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: May 09 09:20:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

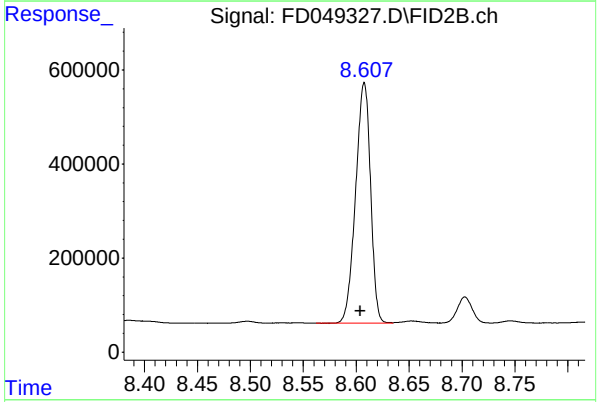




#4 2-Bromonaphthalene (SURR)

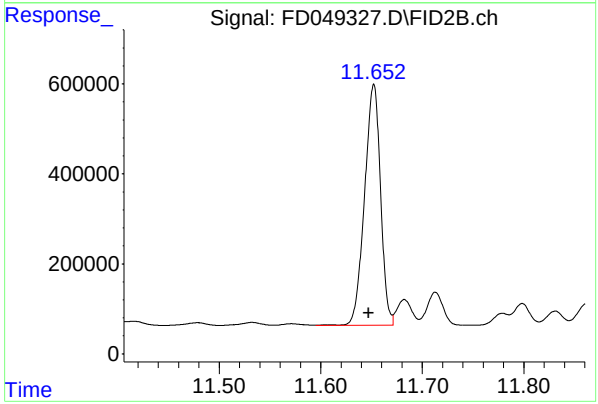
R.T.: 7.742 min
Delta R.T.: 0.003 min
Response: 7294212
Conc: 61.52 ug/ml

Instrument :
FID_D
ClientSampleId :
B-170-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.608 min
Delta R.T.: 0.004 min
Response: 5025132
Conc: 63.63 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.652 min
Delta R.T.: 0.005 min
Response: 5845951
Conc: 42.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049327.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 18:31
Sample : Q1901-03
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.265	4.252	4.286	PH	1791	18305	0.25%	0.022%
2	4.298	4.286	4.321	PV	654	7458	0.10%	0.009%
3	4.325	4.321	4.342	VV	325	2468	0.03%	0.003%
4	4.349	4.342	4.415	VV	135	4758	0.07%	0.006%
5	4.424	4.415	4.429	VV	191	1264	0.02%	0.002%
6	4.448	4.429	4.465	VV	395	4494	0.06%	0.005%
7	4.489	4.465	4.517	PV	2319	25675	0.35%	0.031%
8	4.534	4.517	4.549	VV	502	6431	0.09%	0.008%
9	4.575	4.549	4.582	VV	396	5131	0.07%	0.006%
10	4.589	4.582	4.595	VV	376	2664	0.04%	0.003%
11	4.602	4.595	4.624	VV	521	5798	0.08%	0.007%
12	4.656	4.624	4.678	VV	2987	41801	0.57%	0.050%
13	4.712	4.678	4.727	VV	2335	27457	0.38%	0.033%
14	4.743	4.727	4.784	VV	4504	45162	0.62%	0.054%
15	4.795	4.784	4.824	VV	1209	12408	0.17%	0.015%
16	4.834	4.824	4.850	VV	665	7178	0.10%	0.009%
17	4.860	4.850	4.883	VV	535	6768	0.09%	0.008%
18	4.889	4.883	4.912	VV	343	2902	0.04%	0.003%
19	4.934	4.912	4.970	PV	481	7650	0.10%	0.009%
20	4.973	4.970	4.991	VV	204	2035	0.03%	0.002%
21	4.999	4.991	5.028	VV	300	4908	0.07%	0.006%
22	5.043	5.028	5.082	VV	610	11240	0.15%	0.014%
23	5.097	5.082	5.105	VV	1818	16175	0.22%	0.019%
24	5.123	5.105	5.156	VV	8480	92084	1.26%	0.111%
25	5.180	5.156	5.228	VV	1779	28725	0.39%	0.035%
26	5.234	5.228	5.240	VV	379	2330	0.03%	0.003%
27	5.259	5.240	5.280	VV	436	7638	0.10%	0.009%
28	5.284	5.280	5.300	VV	300	2767	0.04%	0.003%
29	5.314	5.300	5.330	VV	504	6855	0.09%	0.008%
30	5.346	5.330	5.398	VV	4971	54732	0.75%	0.066%
31	5.411	5.398	5.450	VV	353	6558	0.09%	0.008%
32	5.476	5.460	5.480	VV	430	3213	0.04%	0.004%
33	5.488	5.480	5.503	VV	531	5162	0.07%	0.006%
34	5.525	5.503	5.547	VV	1585	18157	0.25%	0.022%
35	5.566	5.547	5.600	VV	2967	32364	0.44%	0.039%
36	5.625	5.600	5.647	VV	1010	13107	0.18%	0.016%

rteres

37	5.653	5.647	5.671	VV	363	3777	0.05%	0.005%
38	5.686	5.671	5.702	VV	669	7861	0.11%	0.009%
39	5.713	5.702	5.745	VV	536	8366	0.11%	0.010%
40	5.765	5.745	5.790	VV	570	7120	0.10%	0.009%
41	5.815	5.790	5.832	VV	989	13503	0.18%	0.016%
42	5.848	5.832	5.855	VV	742	7037	0.10%	0.008%
43	5.863	5.855	5.883	VV	611	6869	0.09%	0.008%
44	5.901	5.892	5.922	PV	270	3138	0.04%	0.004%
45	5.931	5.922	5.941	VV	199	1856	0.03%	0.002%
46	5.952	5.941	5.967	VV	280	3094	0.04%	0.004%
47	5.986	5.967	6.017	VV	516	10362	0.14%	0.012%
48	6.027	6.017	6.036	VV	388	3379	0.05%	0.004%
49	6.076	6.036	6.102	VV	37196	346550	4.74%	0.416%
50	6.124	6.102	6.144	VV	1527	20159	0.28%	0.024%
51	6.163	6.144	6.195	VV	1846	23966	0.33%	0.029%
52	6.223	6.195	6.265	VV	977	21334	0.29%	0.026%
53	6.296	6.265	6.319	VV	876	17236	0.24%	0.021%
54	6.326	6.319	6.334	VV	307	2244	0.03%	0.003%
55	6.358	6.334	6.379	VV	1150	14953	0.20%	0.018%
56	6.384	6.379	6.404	VV	365	4035	0.06%	0.005%
57	6.437	6.404	6.464	VV	438	9159	0.13%	0.011%
58	6.503	6.477	6.535	VV	2430	29566	0.40%	0.036%
59	6.537	6.535	6.541	VV	402	1030	0.01%	0.001%
60	6.547	6.541	6.568	VV	396	4429	0.06%	0.005%
61	6.588	6.568	6.605	VV	1173	13128	0.18%	0.016%
62	6.624	6.605	6.640	VV	1122	12501	0.17%	0.015%
63	6.653	6.640	6.671	VV	2230	22030	0.30%	0.026%
64	6.691	6.671	6.705	VV	672	8156	0.11%	0.010%
65	6.726	6.705	6.747	VV	1185	12378	0.17%	0.015%
66	6.789	6.756	6.815	PV	562	10993	0.15%	0.013%
67	6.827	6.815	6.834	VV	408	2947	0.04%	0.004%
68	6.838	6.834	6.846	VV	330	2007	0.03%	0.002%
69	6.850	6.846	6.855	VV	344	1144	0.02%	0.001%
70	6.869	6.855	6.887	VV	417	4933	0.07%	0.006%
71	6.905	6.887	6.924	VV	630	8159	0.11%	0.010%
72	6.946	6.924	6.976	VV	1407	18513	0.25%	0.022%
73	6.999	6.976	7.021	VV	1584	26472	0.36%	0.032%
74	7.027	7.021	7.030	VV	1075	5244	0.07%	0.006%
75	7.046	7.030	7.092	VV	1547	36419	0.50%	0.044%
76	7.129	7.092	7.159	VV	21396	217886	2.98%	0.262%
77	7.173	7.159	7.177	VV	476	4262	0.06%	0.005%
78	7.182	7.177	7.194	VV	419	3484	0.05%	0.004%
79	7.217	7.194	7.243	VV	772	15906	0.22%	0.019%
80	7.264	7.243	7.279	VV	16877	164291	2.25%	0.197%
81	7.285	7.279	7.327	VV	4676	49046	0.67%	0.059%
82	7.344	7.327	7.360	VV	736	9466	0.13%	0.011%
83	7.364	7.360	7.378	VV	577	5174	0.07%	0.006%
84	7.393	7.378	7.406	VV	864	9356	0.13%	0.011%
85	7.425	7.406	7.446	VV	1493	20017	0.27%	0.024%
86	7.453	7.446	7.455	VV	371	1701	0.02%	0.002%
87	7.467	7.455	7.477	VV	548	5213	0.07%	0.006%
88	7.491	7.477	7.506	VV	915	13010	0.18%	0.016%
89	7.516	7.506	7.546	VV	1084	13216	0.18%	0.016%

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90	7.553	7.546	7.577	VV	362	5081	0.07%	0.006%
91	7.600	7.577	7.606	VV	431	5906	0.08%	0.007%
92	7.616	7.606	7.620	VV	358	2430	0.03%	0.003%
93	7.633	7.620	7.643	VV	469	5086	0.07%	0.006%
94	7.656	7.643	7.668	VV	763	8406	0.11%	0.010%
95	7.687	7.668	7.707	VV	1656	22761	0.31%	0.027%
96	7.742	7.707	7.799	VV	777879	7310983	100.00%	8.783%
97	7.852	7.799	7.874	VV	6958	91927	1.26%	0.110%
98	7.880	7.874	7.894	VV	426	4629	0.06%	0.006%
99	7.907	7.894	7.912	VV	529	3987	0.05%	0.005%
100	7.919	7.912	7.938	VV	446	4765	0.07%	0.006%
101	7.947	7.938	7.968	VV	744	8274	0.11%	0.010%
102	8.008	7.968	8.041	VV	4846	74965	1.03%	0.090%
103	8.053	8.041	8.065	VV	546	6305	0.09%	0.008%
104	8.105	8.065	8.112	VV	6235	74079	1.01%	0.089%
105	8.119	8.112	8.143	VV	5953	56079	0.77%	0.067%
106	8.150	8.143	8.169	VV	667	6228	0.09%	0.007%
107	8.223	8.169	8.239	VV	15151	175285	2.40%	0.211%
108	8.251	8.239	8.275	VV	9213	96189	1.32%	0.116%
109	8.292	8.275	8.317	VV	2776	34733	0.48%	0.042%
110	8.326	8.317	8.335	VV	648	4852	0.07%	0.006%
111	8.341	8.335	8.347	VV	417	2207	0.03%	0.003%
112	8.385	8.347	8.430	VV	6674	151138	2.07%	0.182%
113	8.440	8.430	8.461	VV	736	10192	0.14%	0.012%
114	8.498	8.461	8.517	VV	4546	53219	0.73%	0.064%
115	8.530	8.517	8.537	VV	955	9968	0.14%	0.012%
116	8.544	8.537	8.573	VV	1072	12241	0.17%	0.015%
117	8.608	8.573	8.635	VV	511273	5038053	68.91%	6.052%
118	8.653	8.635	8.680	VV	5079	72328	0.99%	0.087%
119	8.703	8.680	8.728	VV	56310	553626	7.57%	0.665%
120	8.746	8.728	8.775	VV	5347	67473	0.92%	0.081%
121	8.779	8.775	8.790	VV	987	7547	0.10%	0.009%
122	8.815	8.790	8.832	VV	2570	42643	0.58%	0.051%
123	8.848	8.832	8.878	VV	2527	42716	0.58%	0.051%
124	8.894	8.878	8.907	VV	1032	13096	0.18%	0.016%
125	8.942	8.907	8.955	VV	8094	101103	1.38%	0.121%
126	8.973	8.955	8.992	VV	40129	402358	5.50%	0.483%
127	9.013	8.992	9.035	VV	67265	673120	9.21%	0.809%
128	9.045	9.035	9.053	VV	2814	29515	0.40%	0.035%
129	9.065	9.053	9.081	VV	3577	43597	0.60%	0.052%
130	9.108	9.081	9.122	VV	5922	90677	1.24%	0.109%
131	9.149	9.122	9.188	VV	6588	137630	1.88%	0.165%
132	9.204	9.188	9.222	VV	906	10700	0.15%	0.013%
133	9.224	9.222	9.234	VV	324	1202	0.02%	0.001%
134	9.265	9.234	9.281	PV	5514	63504	0.87%	0.076%
135	9.297	9.281	9.325	VV	5581	62726	0.86%	0.075%
136	9.350	9.325	9.367	VV	1339	22185	0.30%	0.027%
137	9.401	9.367	9.425	VV	6240	96910	1.33%	0.116%
138	9.439	9.425	9.454	VV	1578	18721	0.26%	0.022%
139	9.483	9.454	9.539	VV	61484	640625	8.76%	0.770%
140	9.562	9.539	9.589	VV	6073	97600	1.33%	0.117%
141	9.604	9.589	9.616	VV	6102	64851	0.89%	0.078%

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142	9.635	9.616	9.673	VV	13259	192640	2.63%	0.231%
143	9.695	9.673	9.717	VV	9391	117619	1.61%	0.141%
144	9.729	9.717	9.737	VV	1626	16660	0.23%	0.020%
145	9.760	9.737	9.785	VV	63205	642778	8.79%	0.772%
146	9.805	9.785	9.840	VV	15963	186423	2.55%	0.224%
147	9.856	9.840	9.871	VV	2017	28142	0.38%	0.034%
148	9.903	9.871	9.947	VV	20727	275219	3.76%	0.331%
149	9.966	9.947	9.986	VV	4368	52608	0.72%	0.063%
150	10.001	9.986	10.027	VV	1829	24607	0.34%	0.030%
151	10.041	10.027	10.047	VV	848	7515	0.10%	0.009%
152	10.070	10.047	10.098	VV	1932	38942	0.53%	0.047%
153	10.105	10.098	10.125	VV	368	3995	0.05%	0.005%
154	10.172	10.152	10.179	PV	749	6803	0.09%	0.008%
155	10.180	10.179	10.187	VV	607	2386	0.03%	0.003%
156	10.196	10.187	10.203	VV	681	5120	0.07%	0.006%
157	10.224	10.203	10.247	VV	2370	33074	0.45%	0.040%
158	10.253	10.247	10.259	VV	470	2937	0.04%	0.004%
159	10.281	10.259	10.298	VV	2422	31947	0.44%	0.038%
160	10.301	10.298	10.315	VV	1241	11947	0.16%	0.014%
161	10.333	10.315	10.341	VV	3332	37176	0.51%	0.045%
162	10.362	10.341	10.385	VV	13924	179135	2.45%	0.215%
163	10.402	10.385	10.434	VV	8236	108046	1.48%	0.130%
164	10.479	10.434	10.497	VV	8681	133181	1.82%	0.160%
165	10.502	10.497	10.512	VV	4304	36296	0.50%	0.044%
166	10.529	10.512	10.570	VV	20618	268698	3.68%	0.323%
167	10.576	10.570	10.592	VV	2192	21251	0.29%	0.026%
168	10.615	10.592	10.628	VV	3621	47056	0.64%	0.057%
169	10.650	10.628	10.661	VV	9974	120041	1.64%	0.144%
170	10.685	10.661	10.705	VV	26196	387172	5.30%	0.465%
171	10.714	10.705	10.732	VV	5251	59857	0.82%	0.072%
172	10.757	10.732	10.768	VV	3973	65785	0.90%	0.079%
173	10.782	10.768	10.802	VV	7064	85664	1.17%	0.103%
174	10.821	10.802	10.834	VV	2679	38839	0.53%	0.047%
175	10.850	10.834	10.859	VV	7347	71143	0.97%	0.085%
176	10.887	10.859	10.927	VV	560420	5878518	80.41%	7.062%
177	10.956	10.927	10.995	VV	122557	1265332	17.31%	1.520%
178	11.009	10.995	11.022	VV	1434	18066	0.25%	0.022%
179	11.034	11.022	11.044	VV	1905	20682	0.28%	0.025%
180	11.059	11.044	11.079	VV	2433	39124	0.54%	0.047%
181	11.094	11.079	11.119	VV	1474	22413	0.31%	0.027%
182	11.164	11.119	11.211	VV	33131	390347	5.34%	0.469%
183	11.240	11.211	11.255	PV	2552	43837	0.60%	0.053%
184	11.278	11.255	11.300	VV	3554	68624	0.94%	0.082%
185	11.323	11.300	11.344	VV	3015	51414	0.70%	0.062%
186	11.416	11.344	11.445	VV	9957	270283	3.70%	0.325%
187	11.479	11.445	11.504	VV	6591	100819	1.38%	0.121%
188	11.533	11.504	11.554	VV	7235	104686	1.43%	0.126%
189	11.571	11.554	11.597	VV	4302	61866	0.85%	0.074%
190	11.608	11.597	11.618	VV	1597	18316	0.25%	0.022%
191	11.652	11.618	11.671	VV	537139	5856682	80.11%	7.036%
192	11.682	11.671	11.697	VV	58100	595128	8.14%	0.715%
193	11.713	11.697	11.752	VV	74072	818153	11.19%	0.983%
194	11.779	11.752	11.785	VV	27517	265148	3.63%	0.319%

rteres

195	11.799	11.785	11.815	VV	49292	547023	7.48%	0.657%
196	11.831	11.815	11.845	VV	32008	364852	4.99%	0.438%
197	11.861	11.845	11.886	VV	48705	560315	7.66%	0.673%
198	11.899	11.886	11.914	VV	3427	33392	0.46%	0.040%
199	11.934	11.914	11.955	VV	4756	54373	0.74%	0.065%
200	11.975	11.955	11.985	VV	2026	26819	0.37%	0.032%
201	11.999	11.985	12.012	VV	3403	40271	0.55%	0.048%
202	12.045	12.012	12.062	VV	9943	163299	2.23%	0.196%
203	12.069	12.062	12.107	VV	3750	71423	0.98%	0.086%
204	12.115	12.107	12.125	VV	1659	15199	0.21%	0.018%
205	12.151	12.125	12.172	VV	33882	379355	5.19%	0.456%
206	12.180	12.172	12.192	VV	3446	36241	0.50%	0.044%
207	12.212	12.192	12.220	VV	4023	53966	0.74%	0.065%
208	12.238	12.220	12.275	VV	42503	519750	7.11%	0.624%
209	12.298	12.275	12.318	VV	8340	128328	1.76%	0.154%
210	12.329	12.318	12.341	VV	2484	30471	0.42%	0.037%
211	12.356	12.341	12.369	VV	2817	38146	0.52%	0.046%
212	12.400	12.369	12.414	VV	8927	146839	2.01%	0.176%
213	12.423	12.414	12.450	VV	6875	94664	1.29%	0.114%
214	12.470	12.450	12.481	VV	15097	173306	2.37%	0.208%
215	12.488	12.481	12.510	VV	11664	140297	1.92%	0.169%
216	12.527	12.510	12.559	VV	15535	252074	3.45%	0.303%
217	12.580	12.559	12.599	VV	31012	401936	5.50%	0.483%
218	12.617	12.599	12.632	VV	14134	228569	3.13%	0.275%
219	12.643	12.632	12.664	VV	14160	194930	2.67%	0.234%
220	12.701	12.664	12.770	VV	472074	5339483	73.03%	6.414%
221	12.792	12.770	12.801	VV	2707	30650	0.42%	0.037%
222	12.852	12.801	12.866	VV	8809	189376	2.59%	0.227%
223	12.883	12.866	12.901	VV	17754	228298	3.12%	0.274%
224	12.910	12.901	12.944	VV	7568	134140	1.83%	0.161%
225	12.956	12.944	12.967	VV	2941	38170	0.52%	0.046%
226	12.997	12.967	13.022	VV	372846	4167559	57.00%	5.007%
227	13.049	13.022	13.060	VV	40760	447545	6.12%	0.538%
228	13.077	13.060	13.109	VV	137746	1647923	22.54%	1.980%
229	13.131	13.109	13.145	VV	4418	66603	0.91%	0.080%
230	13.164	13.145	13.185	VV	15525	186957	2.56%	0.225%
231	13.198	13.185	13.217	VV	3460	37989	0.52%	0.046%
232	13.258	13.217	13.279	VV	20763	266756	3.65%	0.320%
233	13.295	13.279	13.309	VV	7149	97883	1.34%	0.118%
234	13.328	13.309	13.359	VV	11493	158768	2.17%	0.191%
235	13.388	13.359	13.405	PV	13696	162089	2.22%	0.195%
236	13.417	13.405	13.426	VV	5208	59498	0.81%	0.071%
237	13.450	13.426	13.518	VV	25082	630274	8.62%	0.757%
238	13.578	13.518	13.617	VV	57597	959740	13.13%	1.153%
239	13.646	13.617	13.663	VV	6715	101032	1.38%	0.121%
240	13.686	13.663	13.707	VV	26847	361359	4.94%	0.434%
241	13.726	13.707	13.746	VV	29449	347372	4.75%	0.417%
242	13.772	13.746	13.797	VV	11314	216411	2.96%	0.260%
243	13.855	13.797	13.877	VV	27613	594171	8.13%	0.714%
244	13.896	13.877	13.936	VV	23304	319973	4.38%	0.384%
245	13.967	13.936	13.985	VV	5262	91436	1.25%	0.110%
246	14.001	13.985	14.047	VV	3524	97195	1.33%	0.117%

rteres

247	14.060	14.047	14.074	VV	2998	41851	0.57%	0.050%
248	14.077	14.074	14.096	VV	2744	31367	0.43%	0.038%
249	14.102	14.096	14.120	VV	2129	20252	0.28%	0.024%
250	14.132	14.120	14.140	VV	740	6885	0.09%	0.008%
251	14.162	14.140	14.200	VV	2679	47580	0.65%	0.057%
252	14.217	14.200	14.232	VV	1661	20145	0.28%	0.024%
253	14.268	14.232	14.290	VV	12203	253015	3.46%	0.304%
254	14.309	14.290	14.344	VV	26622	366611	5.01%	0.440%
255	14.413	14.344	14.448	VV	7669	252189	3.45%	0.303%
256	14.490	14.448	14.511	VV	21531	416470	5.70%	0.500%
257	14.520	14.511	14.531	VV	6624	73947	1.01%	0.089%
258	14.554	14.531	14.576	VV	46290	584515	8.00%	0.702%
259	14.580	14.576	14.590	VV	4685	36288	0.50%	0.044%
260	14.611	14.590	14.648	VV	17059	254976	3.49%	0.306%
261	14.677	14.648	14.694	VV	4852	85660	1.17%	0.103%
262	14.736	14.694	14.789	VV	7845	241518	3.30%	0.290%
263	14.794	14.789	14.800	VV	713	3589	0.05%	0.004%
264	14.816	14.800	14.825	VV	1258	14395	0.20%	0.017%
265	14.865	14.825	14.885	VV	168830	2058864	28.16%	2.473%
266	14.907	14.885	14.935	VV	161094	1866159	25.53%	2.242%
267	14.951	14.935	14.978	VV	5488	86641	1.19%	0.104%
268	14.998	14.978	15.003	VV	3286	34816	0.48%	0.042%
269	15.026	15.003	15.047	VV	27689	356222	4.87%	0.428%
270	15.057	15.047	15.078	VV	5132	77745	1.06%	0.093%
271	15.098	15.078	15.133	VV	11992	172206	2.36%	0.207%
272	15.159	15.133	15.186	VV	13672	227461	3.11%	0.273%
273	15.200	15.186	15.215	VV	9979	139895	1.91%	0.168%
274	15.221	15.215	15.260	VV	6053	85512	1.17%	0.103%
275	15.303	15.260	15.327	VV	17921	267148	3.65%	0.321%
276	15.332	15.327	15.337	VV	4601	28572	0.39%	0.034%
277	15.343	15.337	15.370	VV	4551	58621	0.80%	0.070%
278	15.373	15.370	15.390	VV	1409	11379	0.16%	0.014%
279	15.404	15.390	15.415	VV	1293	16781	0.23%	0.020%
280	15.451	15.415	15.468	VV	4667	99787	1.36%	0.120%
281	15.490	15.468	15.510	VV	9353	149615	2.05%	0.180%
282	15.533	15.510	15.554	VV	35058	450498	6.16%	0.541%
283	15.570	15.554	15.590	VV	17634	222925	3.05%	0.268%
284	15.614	15.590	15.630	VV	7571	132499	1.81%	0.159%
285	15.676	15.630	15.682	VV	14004	245319	3.36%	0.295%
286	15.695	15.682	15.729	VV	17560	301456	4.12%	0.362%
287	15.772	15.729	15.795	VV	9070	175029	2.39%	0.210%
288	15.811	15.795	15.834	VV	2670	46417	0.63%	0.056%
289	15.855	15.834	15.878	VV	6822	89280	1.22%	0.107%
290	15.893	15.878	15.909	VV	1150	17880	0.24%	0.021%
291	15.936	15.909	15.985	VV	4405	119985	1.64%	0.144%
292	16.002	15.985	16.017	VV	966	14532	0.20%	0.017%
293	16.029	16.017	16.046	VV	1200	17510	0.24%	0.021%
294	16.058	16.046	16.075	VV	1249	13996	0.19%	0.017%
295	16.088	16.075	16.104	VV	1203	14741	0.20%	0.018%
296	16.138	16.104	16.156	VV	8265	137071	1.87%	0.165%
297	16.168	16.156	16.185	VV	3757	44674	0.61%	0.054%
298	16.240	16.185	16.264	VV	5136	138781	1.90%	0.167%
299	16.277	16.264	16.287	VV	2980	36368	0.50%	0.044%

rteres

300	16.307	16.287	16.313	VV	3768	50991	0.70%	0.061%
301	16.340	16.313	16.366	VV	10443	171856	2.35%	0.206%
302	16.417	16.366	16.435	VV	134865	1933186	26.44%	2.322%
303	16.444	16.435	16.483	VV	62369	672286	9.20%	0.808%
304	16.497	16.483	16.520	VV	2621	43887	0.60%	0.053%
305	16.544	16.520	16.567	VV	26270	331360	4.53%	0.398%
306	16.582	16.567	16.640	VV	5992	105590	1.44%	0.127%
307	16.666	16.640	16.679	VV	4439	57907	0.79%	0.070%
308	16.701	16.679	16.706	VV	7027	83634	1.14%	0.100%
309	16.737	16.706	16.763	VV	80540	1087823	14.88%	1.307%
310	16.794	16.763	16.841	VV	118692	1499434	20.51%	1.801%
311	16.863	16.841	16.870	VV	2888	34851	0.48%	0.042%
312	16.893	16.870	16.922	VV	33285	415559	5.68%	0.499%
313	16.942	16.922	16.984	VV	6361	130865	1.79%	0.157%
314	17.034	16.984	17.075	VV	9181	287198	3.93%	0.345%
315	17.095	17.075	17.115	VV	4316	63340	0.87%	0.076%
316	17.159	17.115	17.188	VV	14564	337880	4.62%	0.406%
317	17.195	17.188	17.224	VV	5824	68719	0.94%	0.083%
318	17.254	17.224	17.267	PV	4664	62058	0.85%	0.075%
319	17.289	17.267	17.304	VV	8849	138539	1.89%	0.166%
320	17.317	17.304	17.352	VV	7643	134646	1.84%	0.162%
321	17.375	17.352	17.394	VV	7869	123343	1.69%	0.148%
322	17.401	17.394	17.424	VV	4901	64991	0.89%	0.078%
323	17.447	17.424	17.472	VV	9369	157458	2.15%	0.189%
324	17.488	17.472	17.510	VV	4532	71210	0.97%	0.086%
325	17.516	17.510	17.528	VV	2095	18715	0.26%	0.022%
326	17.563	17.528	17.590	VV	3894	94250	1.29%	0.113%
327	17.597	17.590	17.615	VV	1136	14868	0.20%	0.018%
328	17.631	17.615	17.650	VV	1818	27775	0.38%	0.033%
329	17.663	17.650	17.676	VV	926	9881	0.14%	0.012%
330	17.707	17.676	17.724	VV	3191	55011	0.75%	0.066%
331	17.757	17.724	17.768	VV	5283	112368	1.54%	0.135%
332	17.780	17.768	17.809	VV	5297	87317	1.19%	0.105%
333	17.840	17.809	17.854	VV	4385	78678	1.08%	0.095%
334	17.882	17.854	17.904	VV	7163	138019	1.89%	0.166%
335	17.921	17.904	17.931	VV	5332	69338	0.95%	0.083%
336	17.945	17.931	17.975	VV	6225	105762	1.45%	0.127%
337	17.996	17.975	18.033	VV	3691	72120	0.99%	0.087%
338	18.065	18.033	18.108	VV	19836	356726	4.88%	0.429%
339	18.156	18.108	18.180	VV	72753	1112660	15.22%	1.337%
340	18.197	18.180	18.225	VV	17808	309999	4.24%	0.372%
341	18.239	18.225	18.262	VV	7662	112706	1.54%	0.135%
342	18.288	18.262	18.303	VV	19378	254627	3.48%	0.306%
343	18.318	18.303	18.378	VV	16543	265800	3.64%	0.319%
344	18.409	18.378	18.435	PV	68048	839033	11.48%	1.008%
345	18.443	18.435	18.463	VV	2139	31709	0.43%	0.038%
346	18.491	18.463	18.508	VV	6135	101350	1.39%	0.122%
347	18.538	18.508	18.570	VV	22491	310175	4.24%	0.373%
348	18.606	18.570	18.627	PV	2976	56602	0.77%	0.068%
349	18.635	18.627	18.652	VV	2189	25669	0.35%	0.031%
350	18.660	18.652	18.682	VV	1250	13797	0.19%	0.017%
351	18.715	18.682	18.739	PV	4132	71978	0.98%	0.086%

rteres

352	18.753	18.739	18.764	VV	1465	17338	0.24%	0.021%
353	18.772	18.764	18.779	VV	1308	10924	0.15%	0.013%
354	18.839	18.779	18.857	VV	5289	113101	1.55%	0.136%
355	18.877	18.857	18.897	VV	2273	34871	0.48%	0.042%
356	18.918	18.897	18.935	PV	4154	50920	0.70%	0.061%
357	18.951	18.935	18.967	VV	3405	43421	0.59%	0.052%
358	18.974	18.967	18.995	VV	1654	15810	0.22%	0.019%

Sum of corrected areas: 83242516

Aromatic EPH 050125.M Fri May 09 09:49:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068802.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 19:47
Operator : YP/AJ
Sample : Q1901-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: May 09 09:09:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.145	5032167	62.725 ug/ml
Spiked Amount 50.000		Recovery = 125.45%	
Target Compounds			

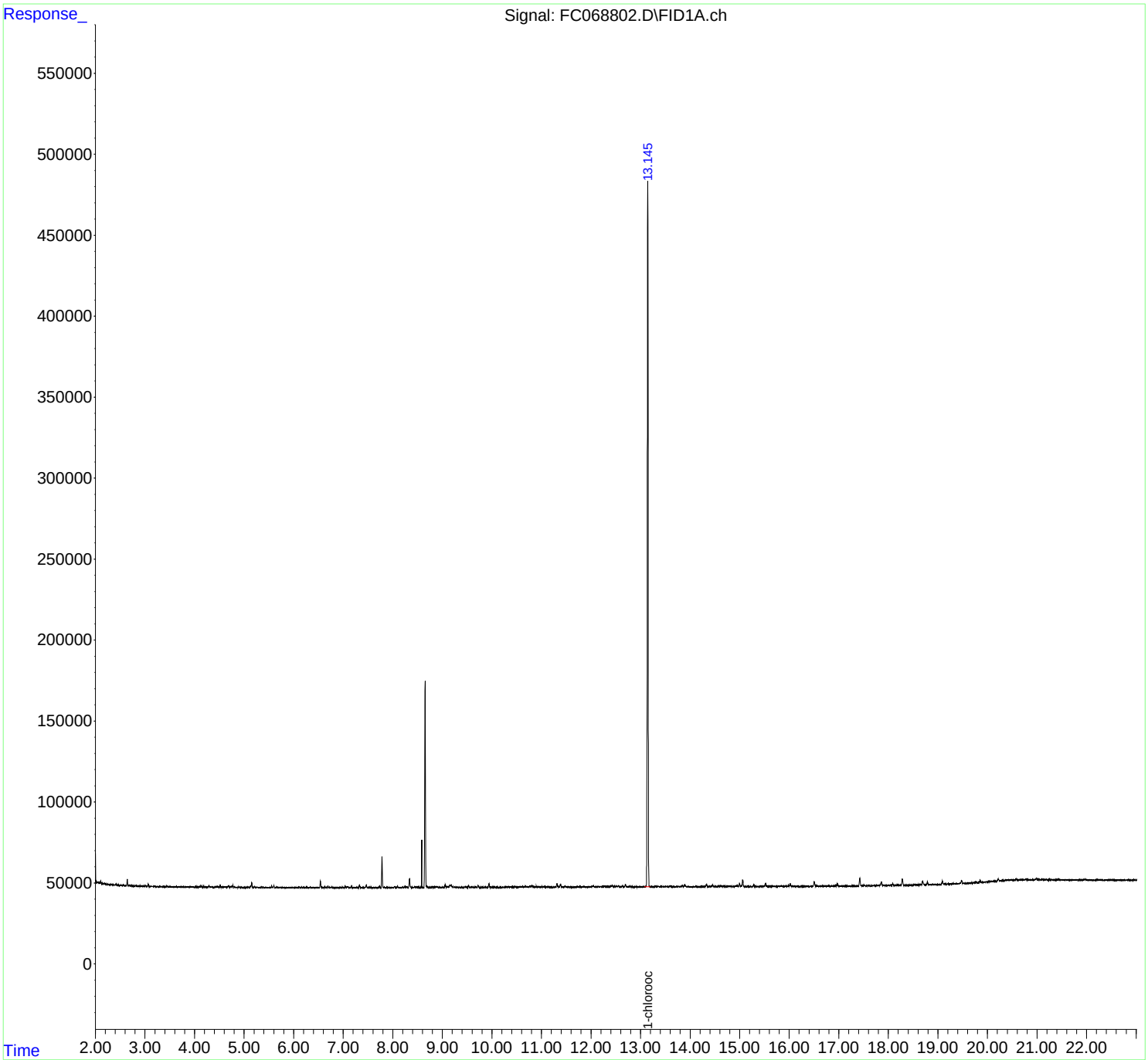
(f)=RT Delta > 1/2 Window (m)=manual int.

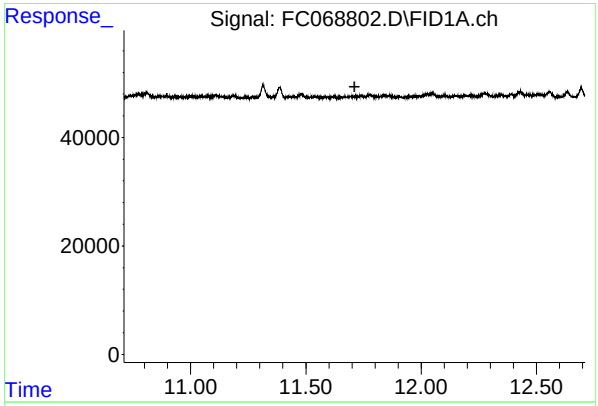
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068802.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 19:47
Operator : YP/AJ
Sample : Q1901-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: May 09 09:09:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

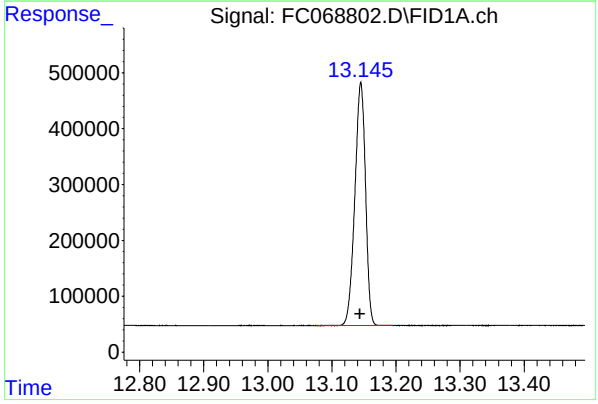




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.711 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-167-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.145 min
Delta R.T.: 0.001 min
Response: 5032167
Conc: 62.72 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068802.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 19:47
Sample : Q1901-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.542	6.498	6.579	BB	4077	41529	0.83%	0.613%
2	7.784	7.755	7.810	BB	19202	176765	3.51%	2.610%
3	8.339	8.292	8.382	BB	5414	56052	1.11%	0.828%
4	8.653	8.539	8.715	BB	127243	1299471	25.82%	19.186%
5	13.145	13.075	13.195	BB	435483	5032167	100.00%	74.296%
6	15.059	15.032	15.100	BB	4144	53201	1.06%	0.785%
7	17.422	17.365	17.467	BB	4742	61763	1.23%	0.912%
8	18.282	18.225	18.310	BB	3892	52195	1.04%	0.771%
			Sum of corrected areas:			6773143		

Aliphatic EPH 050625.M Fri May 09 09:33:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049328.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 19:09
Operator : YP/AJ
Sample : Q1901-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: May 09 09:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.742	6364997	53.681 ug/ml
Spiked Amount 50.000		Recovery = 107.36%	
6) S 2-Flurobiphenyl (SURR)	8.605	2914629	36.907 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 73.81%	
11) S ortho-Terphenyl (SURR)	11.651	5613078	40.668 ug/ml
Spiked Amount 50.000		Recovery = 81.34%	
Target Compounds			

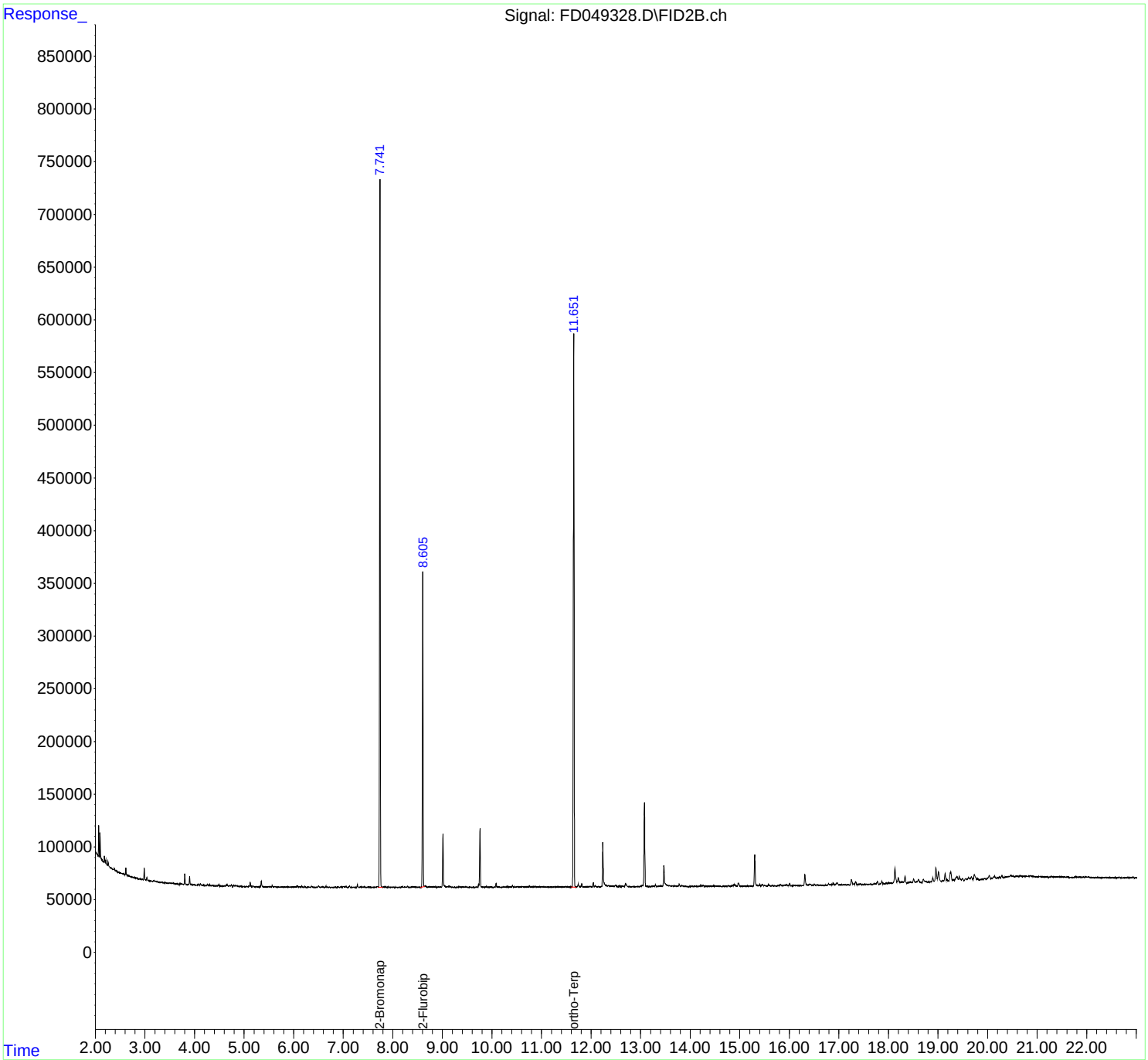
(f)=RT Delta > 1/2 Window (m)=manual int.

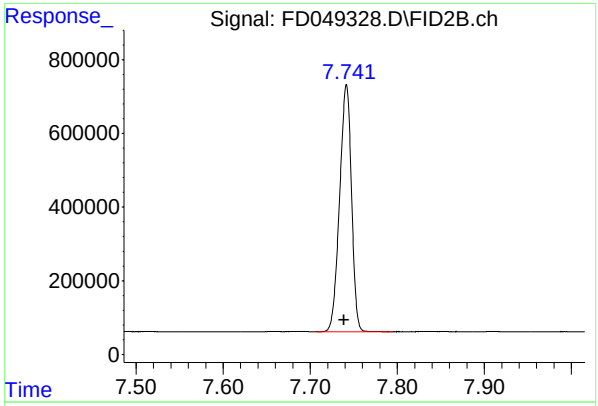
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049328.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 19:09
Operator : YP/AJ
Sample : Q1901-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: May 09 09:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

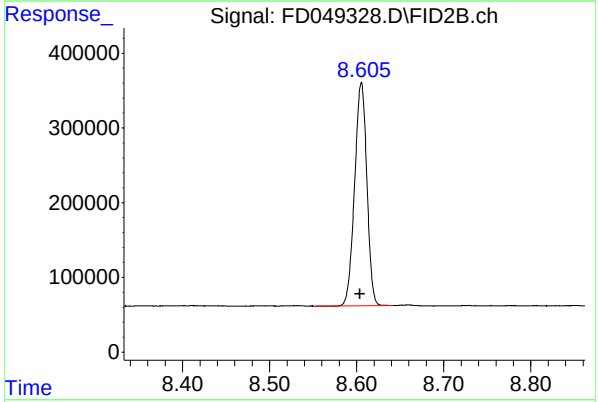




#4 2-Bromonaphthalene (SURR)

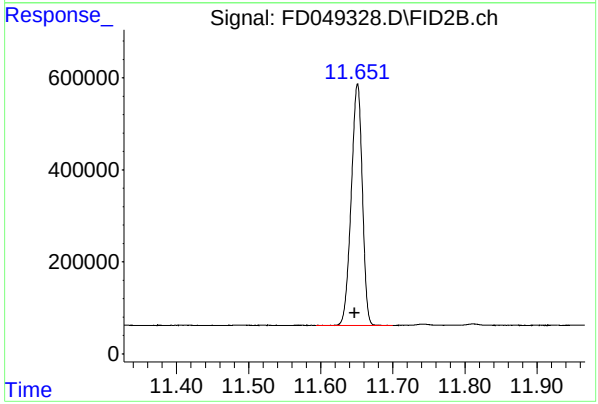
R.T.: 7.742 min
Delta R.T.: 0.003 min
Response: 6364997
Conc: 53.68 ug/ml

Instrument :
FID_D
ClientSampleId :
B-167-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.605 min
Delta R.T.: 0.002 min
Response: 2914629
Conc: 36.91 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.651 min
Delta R.T.: 0.004 min
Response: 5613078
Conc: 40.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049328.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 19:09
Sample : Q1901-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.266	4.252	4.284	BV	649	5313	0.08%	0.022%
2	4.298	4.284	4.335	PV	911	7951	0.12%	0.034%
3	4.342	4.335	4.378	PV	249	4685	0.07%	0.020%
4	4.385	4.378	4.397	VV	398	2556	0.04%	0.011%
5	4.400	4.397	4.414	VV	193	1090	0.02%	0.005%
6	4.447	4.414	4.467	PV	491	7646	0.12%	0.032%
7	4.489	4.467	4.517	VV	1630	20006	0.31%	0.084%
8	4.528	4.517	4.549	VV	426	4097	0.06%	0.017%
9	4.564	4.549	4.587	VV	333	4862	0.08%	0.021%
10	4.604	4.587	4.623	VV	442	6892	0.11%	0.029%
11	4.638	4.623	4.645	VV	1583	13141	0.21%	0.055%
12	4.656	4.645	4.684	VV	1883	23368	0.37%	0.099%
13	4.689	4.684	4.698	VV	326	2036	0.03%	0.009%
14	4.714	4.698	4.728	VV	1188	12424	0.19%	0.052%
15	4.743	4.728	4.765	VV	1953	20007	0.31%	0.084%
16	4.774	4.765	4.782	VV	370	3108	0.05%	0.013%
17	4.796	4.782	4.814	VV	1359	14464	0.23%	0.061%
18	4.829	4.814	4.852	VV	1462	19220	0.30%	0.081%
19	4.859	4.852	4.874	VV	689	7010	0.11%	0.030%
20	4.879	4.874	4.912	VV	512	7521	0.12%	0.032%
21	4.931	4.912	4.963	VV	722	10926	0.17%	0.046%
22	4.995	4.978	5.014	VV	265	3363	0.05%	0.014%
23	5.021	5.014	5.027	VV	223	1272	0.02%	0.005%
24	5.040	5.027	5.062	VV	585	7078	0.11%	0.030%
25	5.097	5.062	5.107	VV	1044	14018	0.22%	0.059%
26	5.123	5.107	5.158	VV	4251	48775	0.76%	0.206%
27	5.181	5.158	5.209	VV	961	16567	0.26%	0.070%
28	5.213	5.209	5.227	VV	252	1947	0.03%	0.008%
29	5.242	5.227	5.249	VV	526	5083	0.08%	0.021%
30	5.253	5.249	5.274	VV	499	3439	0.05%	0.015%
31	5.281	5.274	5.297	VV	261	1732	0.03%	0.007%
32	5.308	5.297	5.313	PV	303	2299	0.04%	0.010%
33	5.321	5.313	5.327	VV	419	2670	0.04%	0.011%
34	5.346	5.327	5.413	VV	5796	68045	1.07%	0.287%
35	5.416	5.413	5.430	VV	320	2054	0.03%	0.009%
36	5.437	5.430	5.455	VV	336	2461	0.04%	0.010%

rteres

37	5.465	5.455	5.474	VV	244	2113	0.03%	0.009%
38	5.486	5.474	5.508	VV	531	7232	0.11%	0.031%
39	5.523	5.508	5.542	VV	733	8389	0.13%	0.035%
40	5.567	5.542	5.586	VV	1638	18085	0.28%	0.076%
41	5.592	5.586	5.600	VV	368	2549	0.04%	0.011%
42	5.605	5.600	5.608	VV	385	1589	0.02%	0.007%
43	5.623	5.608	5.645	VV	647	8055	0.13%	0.034%
44	5.650	5.645	5.655	VV	299	1331	0.02%	0.006%
45	5.661	5.655	5.703	VV	310	5927	0.09%	0.025%
46	5.712	5.703	5.731	VV	244	2689	0.04%	0.011%
47	5.738	5.731	5.749	VV	246	1267	0.02%	0.005%
48	5.766	5.749	5.793	VV	487	7034	0.11%	0.030%
49	5.816	5.793	5.836	VV	366	6597	0.10%	0.028%
50	5.874	5.836	5.922	VV	393	11978	0.19%	0.051%
51	5.987	5.922	6.000	VV	554	15166	0.24%	0.064%
52	6.007	6.000	6.022	VV	549	5503	0.09%	0.023%
53	6.024	6.022	6.042	VV	496	4573	0.07%	0.019%
54	6.053	6.042	6.059	VV	688	5302	0.08%	0.022%
55	6.079	6.059	6.107	VV	1481	22509	0.35%	0.095%
56	6.121	6.107	6.144	VV	743	9936	0.16%	0.042%
57	6.165	6.144	6.207	VV	1071	16840	0.26%	0.071%
58	6.223	6.207	6.260	VV	1049	15188	0.24%	0.064%
59	6.294	6.260	6.310	VV	575	9859	0.15%	0.042%
60	6.315	6.310	6.322	VV	405	2166	0.03%	0.009%
61	6.326	6.322	6.338	VV	333	1663	0.03%	0.007%
62	6.355	6.338	6.403	VV	1172	20900	0.33%	0.088%
63	6.409	6.403	6.426	VV	341	3038	0.05%	0.013%
64	6.448	6.426	6.478	VV	361	7924	0.12%	0.033%
65	6.503	6.478	6.534	VV	1738	24744	0.39%	0.104%
66	6.544	6.534	6.555	VV	522	5004	0.08%	0.021%
67	6.570	6.555	6.576	VV	481	5089	0.08%	0.021%
68	6.589	6.576	6.611	VV	737	9481	0.15%	0.040%
69	6.624	6.611	6.636	VV	689	6673	0.10%	0.028%
70	6.654	6.636	6.676	VV	1349	16276	0.25%	0.069%
71	6.686	6.676	6.712	VV	706	8151	0.13%	0.034%
72	6.725	6.712	6.754	VV	782	9956	0.16%	0.042%
73	6.772	6.754	6.783	PV	482	4120	0.06%	0.017%
74	6.787	6.783	6.800	VV	352	1857	0.03%	0.008%
75	6.832	6.800	6.864	VV	534	11740	0.18%	0.050%
76	6.900	6.864	6.924	VV	1193	19115	0.30%	0.081%
77	6.947	6.924	6.981	VV	986	19715	0.31%	0.083%
78	7.000	6.981	7.033	VV	1199	24936	0.39%	0.105%
79	7.047	7.033	7.075	VV	1070	19215	0.30%	0.081%
80	7.080	7.075	7.094	VV	380	3505	0.05%	0.015%
81	7.126	7.094	7.153	VV	1359	23973	0.38%	0.101%
82	7.163	7.153	7.172	VV	511	3752	0.06%	0.016%
83	7.187	7.172	7.200	VV	412	5846	0.09%	0.025%
84	7.207	7.200	7.220	VV	504	4814	0.08%	0.020%
85	7.235	7.220	7.256	VV	483	6151	0.10%	0.026%
86	7.287	7.256	7.322	VV	2375	32856	0.51%	0.139%
87	7.344	7.322	7.352	VV	786	9409	0.15%	0.040%
88	7.365	7.352	7.386	VV	667	10670	0.17%	0.045%
89	7.395	7.386	7.407	VV	638	5774	0.09%	0.024%

rteres

90	7.429	7.407	7.453	VV	968	15673	0.25%	0.066%
91	7.462	7.453	7.478	VV	574	5890	0.09%	0.025%
92	7.493	7.478	7.503	VV	606	7674	0.12%	0.032%
93	7.515	7.503	7.537	VV	769	10233	0.16%	0.043%
94	7.542	7.537	7.578	VV	368	6865	0.11%	0.029%
95	7.582	7.578	7.587	VV	350	1478	0.02%	0.006%
96	7.598	7.587	7.622	VV	373	5302	0.08%	0.022%
97	7.631	7.622	7.644	VV	396	4022	0.06%	0.017%
98	7.657	7.644	7.669	VV	761	8735	0.14%	0.037%
99	7.688	7.669	7.704	VV	1161	15907	0.25%	0.067%
100	7.742	7.704	7.795	VV	672534	6385216	100.00%	26.957%
101	7.801	7.795	7.818	VV	491	6061	0.09%	0.026%
102	7.835	7.818	7.847	VV	1101	13061	0.20%	0.055%
103	7.853	7.847	7.874	VV	661	7786	0.12%	0.033%
104	7.878	7.874	7.893	VV	364	2866	0.04%	0.012%
105	7.910	7.893	7.925	VV	818	9406	0.15%	0.040%
106	7.943	7.925	7.961	VV	405	6549	0.10%	0.028%
107	7.966	7.961	7.978	VV	315	2327	0.04%	0.010%
108	7.992	7.978	8.006	VV	522	6053	0.09%	0.026%
109	8.016	8.006	8.032	VV	287	2560	0.04%	0.011%
110	8.040	8.032	8.057	VV	497	3737	0.06%	0.016%
111	8.086	8.057	8.108	VV	421	7365	0.12%	0.031%
112	8.122	8.108	8.135	VV	363	3191	0.05%	0.013%
113	8.140	8.135	8.157	VV	365	2730	0.04%	0.012%
114	8.173	8.157	8.179	VV	649	5897	0.09%	0.025%
115	8.194	8.179	8.224	VV	1085	16931	0.27%	0.071%
116	8.241	8.224	8.268	VV	607	12511	0.20%	0.053%
117	8.294	8.268	8.318	VV	1549	22630	0.35%	0.096%
118	8.324	8.318	8.343	VV	455	5087	0.08%	0.021%
119	8.357	8.343	8.373	VV	584	8561	0.13%	0.036%
120	8.389	8.373	8.395	VV	648	6467	0.10%	0.027%
121	8.411	8.395	8.426	VV	812	12318	0.19%	0.052%
122	8.436	8.426	8.464	VV	600	8436	0.13%	0.036%
123	8.486	8.464	8.495	VV	509	6286	0.10%	0.027%
124	8.500	8.495	8.510	VV	575	3618	0.06%	0.015%
125	8.532	8.510	8.562	VV	770	12832	0.20%	0.054%
126	8.605	8.562	8.642	VV	298555	2946009	46.14%	12.437%
127	8.659	8.642	8.689	VV	1672	28835	0.45%	0.122%
128	8.702	8.689	8.710	VV	659	6564	0.10%	0.028%
129	8.729	8.710	8.750	VV	933	15792	0.25%	0.067%
130	8.775	8.750	8.786	VV	829	14220	0.22%	0.060%
131	8.793	8.786	8.798	VV	665	4250	0.07%	0.018%
132	8.805	8.798	8.818	VV	724	7928	0.12%	0.033%
133	8.853	8.818	8.870	VV	889	19749	0.31%	0.083%
134	8.880	8.870	8.890	VV	344	4219	0.07%	0.018%
135	8.896	8.890	8.907	VV	642	5476	0.09%	0.023%
136	8.914	8.907	8.922	VV	541	4074	0.06%	0.017%
137	8.925	8.922	8.931	VV	540	2456	0.04%	0.010%
138	8.949	8.931	8.962	VV	528	7627	0.12%	0.032%
139	8.980	8.962	8.985	VV	553	6002	0.09%	0.025%
140	9.013	8.985	9.037	VV	51224	515583	8.07%	2.177%
141	9.042	9.037	9.086	VV	1743	30262	0.47%	0.128%

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142	9.100	9.086	9.113	VV	1095	14721	0.23%	0.062%
143	9.132	9.113	9.154	VV	1763	28687	0.45%	0.121%
144	9.167	9.154	9.190	VV	941	12743	0.20%	0.054%
145	9.204	9.190	9.218	VV	489	5885	0.09%	0.025%
146	9.225	9.218	9.232	VV	397	2092	0.03%	0.009%
147	9.247	9.232	9.279	VV	444	8638	0.14%	0.036%
148	9.304	9.279	9.317	VV	716	10683	0.17%	0.045%
149	9.336	9.317	9.375	VV	881	18298	0.29%	0.077%
150	9.397	9.375	9.409	VV	675	9301	0.15%	0.039%
151	9.414	9.409	9.433	VV	574	5750	0.09%	0.024%
152	9.478	9.433	9.515	VV	1092	23688	0.37%	0.100%
153	9.531	9.515	9.540	PV	348	2836	0.04%	0.012%
154	9.559	9.540	9.581	VV	464	8398	0.13%	0.035%
155	9.588	9.581	9.598	VV	323	2103	0.03%	0.009%
156	9.616	9.598	9.635	VV	591	7642	0.12%	0.032%
157	9.642	9.635	9.653	VV	287	2065	0.03%	0.009%
158	9.671	9.653	9.690	VV	483	7942	0.12%	0.034%
159	9.730	9.690	9.739	VV	3208	38651	0.61%	0.163%
160	9.760	9.739	9.794	VV	56020	565865	8.86%	2.389%
161	9.807	9.794	9.815	VV	436	4635	0.07%	0.020%
162	9.829	9.815	9.854	VV	712	8616	0.13%	0.036%
163	9.889	9.854	9.928	VV	1064	17291	0.27%	0.073%
164	9.962	9.928	9.967	VV	489	6948	0.11%	0.029%
165	9.970	9.967	9.998	VV	412	5169	0.08%	0.022%
166	10.003	9.998	10.018	VV	248	1996	0.03%	0.008%
167	10.045	10.018	10.058	VV	295	4818	0.08%	0.020%
168	10.084	10.058	10.113	VV	3856	44844	0.70%	0.189%
169	10.124	10.113	10.128	VV	365	2550	0.04%	0.011%
170	10.132	10.128	10.180	VV	423	6847	0.11%	0.029%
171	10.192	10.180	10.203	VV	239	2568	0.04%	0.011%
172	10.216	10.203	10.220	VV	430	3547	0.06%	0.015%
173	10.235	10.220	10.250	VV	562	7965	0.12%	0.034%
174	10.254	10.250	10.269	VV	346	3344	0.05%	0.014%
175	10.281	10.269	10.298	VV	583	6685	0.10%	0.028%
176	10.318	10.298	10.341	VV	795	13467	0.21%	0.057%
177	10.352	10.341	10.362	VV	555	5646	0.09%	0.024%
178	10.366	10.362	10.388	VV	553	6652	0.10%	0.028%
179	10.413	10.388	10.435	VV	1826	24248	0.38%	0.102%
180	10.440	10.435	10.464	VV	619	6060	0.09%	0.026%
181	10.478	10.464	10.485	VV	513	3897	0.06%	0.016%
182	10.510	10.485	10.548	VV	712	15909	0.25%	0.067%
183	10.552	10.548	10.563	VV	547	3892	0.06%	0.016%
184	10.571	10.563	10.577	VV	559	3898	0.06%	0.016%
185	10.582	10.577	10.592	VV	562	4198	0.07%	0.018%
186	10.623	10.592	10.645	VV	788	17466	0.27%	0.074%
187	10.649	10.645	10.667	VV	504	4919	0.08%	0.021%
188	10.681	10.667	10.700	VV	580	8406	0.13%	0.035%
189	10.724	10.700	10.734	VV	718	10705	0.17%	0.045%
190	10.739	10.734	10.743	VV	604	3004	0.05%	0.013%
191	10.758	10.743	10.784	VV	989	15352	0.24%	0.065%
192	10.790	10.784	10.797	VV	293	1719	0.03%	0.007%
193	10.815	10.797	10.826	VV	760	8045	0.13%	0.034%
194	10.829	10.826	10.836	VV	499	2783	0.04%	0.012%

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195	10.849	10.836	10.863	VV	818	9423	0.15%	0.040%
196	10.879	10.863	10.917	VV	990	16377	0.26%	0.069%
197	10.953	10.917	10.975	VV	776	12994	0.20%	0.055%
198	10.980	10.975	10.988	VV	343	2065	0.03%	0.009%
199	11.002	10.988	11.012	VV	450	5311	0.08%	0.022%
200	11.027	11.012	11.037	VV	450	5691	0.09%	0.024%
201	11.054	11.037	11.096	VV	608	10964	0.17%	0.046%
202	11.132	11.096	11.150	VV	353	5351	0.08%	0.023%
203	11.174	11.150	11.181	VV	296	2977	0.05%	0.013%
204	11.191	11.181	11.196	VV	228	1482	0.02%	0.006%
205	11.202	11.196	11.206	VV	210	1155	0.02%	0.005%
206	11.214	11.206	11.224	VV	260	1513	0.02%	0.006%
207	11.258	11.224	11.284	PV	531	8771	0.14%	0.037%
208	11.306	11.284	11.314	VV	428	6067	0.10%	0.026%
209	11.327	11.314	11.365	VV	754	9611	0.15%	0.041%
210	11.376	11.365	11.384	VV	349	2887	0.05%	0.012%
211	11.413	11.384	11.432	VV	527	9486	0.15%	0.040%
212	11.437	11.432	11.447	VV	291	1560	0.02%	0.007%
213	11.450	11.447	11.463	VV	285	1685	0.03%	0.007%
214	11.488	11.463	11.507	VV	765	10465	0.16%	0.044%
215	11.521	11.507	11.552	VV	516	7044	0.11%	0.030%
216	11.581	11.552	11.615	VV	447	8386	0.13%	0.035%
217	11.651	11.615	11.687	VV	526695	5616852	87.97%	23.713%
218	11.692	11.687	11.700	VV	262	1114	0.02%	0.005%
219	11.742	11.700	11.770	VV	2929	41806	0.65%	0.176%
220	11.811	11.770	11.841	VV	3312	46968	0.74%	0.198%
221	11.850	11.841	11.865	VV	424	4703	0.07%	0.020%
222	11.869	11.865	11.888	VV	431	3650	0.06%	0.015%
223	11.902	11.888	11.913	VV	466	4500	0.07%	0.019%
224	11.927	11.913	11.935	VV	457	3857	0.06%	0.016%
225	11.959	11.935	11.965	VV	581	6637	0.10%	0.028%
226	11.985	11.965	12.010	VV	808	14382	0.23%	0.061%
227	12.016	12.010	12.022	VV	423	2318	0.04%	0.010%
228	12.045	12.022	12.067	VV	4191	50878	0.80%	0.215%
229	12.086	12.067	12.117	VV	1454	19957	0.31%	0.084%
230	12.146	12.117	12.170	VV	428	7961	0.12%	0.034%
231	12.237	12.170	12.340	VV	42490	578233	9.06%	2.441%
232	12.356	12.340	12.397	VV	1505	37712	0.59%	0.159%
233	12.404	12.397	12.415	VV	868	8821	0.14%	0.037%
234	12.420	12.415	12.429	VV	864	6438	0.10%	0.027%
235	12.431	12.429	12.458	VV	836	12042	0.19%	0.051%
236	12.495	12.458	12.515	VV	2054	39329	0.62%	0.166%
237	12.520	12.515	12.545	VV	665	7865	0.12%	0.033%
238	12.549	12.545	12.552	VV	558	1886	0.03%	0.008%
239	12.570	12.552	12.605	VV	1170	23414	0.37%	0.099%
240	12.630	12.605	12.670	VV	1229	25289	0.40%	0.107%
241	12.696	12.670	12.745	VV	3504	69451	1.09%	0.293%
242	12.760	12.745	12.765	VV	523	5215	0.08%	0.022%
243	12.769	12.765	12.810	VV	479	7331	0.11%	0.031%
244	12.815	12.810	12.824	VV	250	1609	0.03%	0.007%
245	12.837	12.824	12.844	VV	317	2493	0.04%	0.011%
246	12.849	12.844	12.873	VV	218	3760	0.06%	0.016%

rteres

247	12.901	12.873	12.905	VV	511	6772	0.11%	0.029%
248	12.917	12.905	12.938	VV	515	7656	0.12%	0.032%
249	12.949	12.938	12.971	VV	299	4154	0.07%	0.018%
250	12.993	12.971	13.010	VV	724	9208	0.14%	0.039%
251	13.032	13.010	13.047	VV	1717	24254	0.38%	0.102%
252	13.076	13.047	13.105	VV	79931	924852	14.48%	3.904%
253	13.112	13.105	13.118	VV	588	4050	0.06%	0.017%
254	13.120	13.118	13.147	VV	613	7474	0.12%	0.032%
255	13.152	13.147	13.185	VV	353	5737	0.09%	0.024%
256	13.199	13.185	13.213	VV	440	5294	0.08%	0.022%
257	13.246	13.213	13.275	VV	642	16371	0.26%	0.069%
258	13.296	13.275	13.334	VV	2174	32096	0.50%	0.136%
259	13.376	13.334	13.441	VV	788	38227	0.60%	0.161%
260	13.467	13.441	13.568	VV	20380	331573	5.19%	1.400%
261	13.573	13.568	13.603	VV	1033	18920	0.30%	0.080%
262	13.611	13.603	13.621	VV	740	7318	0.11%	0.031%
263	13.649	13.621	13.667	VV	908	20990	0.33%	0.089%
264	13.672	13.667	13.680	VV	828	5794	0.09%	0.024%
265	13.694	13.680	13.723	VV	1038	18827	0.29%	0.079%
266	13.734	13.723	13.742	VV	628	6070	0.10%	0.026%
267	13.778	13.742	13.810	VV	2874	47572	0.75%	0.201%
268	13.827	13.810	13.874	VV	1015	27740	0.43%	0.117%
269	13.890	13.874	13.907	VV	507	7428	0.12%	0.031%
270	13.921	13.907	13.957	VV	387	6922	0.11%	0.029%
271	13.994	13.957	14.015	PV	313	6972	0.11%	0.029%
272	14.019	14.015	14.028	VV	432	2200	0.03%	0.009%
273	14.036	14.028	14.045	VV	372	2791	0.04%	0.012%
274	14.061	14.045	14.083	VV	480	8161	0.13%	0.034%
275	14.091	14.083	14.128	VV	444	7164	0.11%	0.030%
276	14.143	14.128	14.188	VV	337	7339	0.11%	0.031%
277	14.214	14.188	14.242	VV	1619	24804	0.39%	0.105%
278	14.260	14.242	14.287	VV	1564	23650	0.37%	0.100%
279	14.319	14.287	14.327	VV	519	8572	0.13%	0.036%
280	14.340	14.327	14.374	VV	583	10037	0.16%	0.042%
281	14.390	14.374	14.408	VV	506	7726	0.12%	0.033%
282	14.422	14.408	14.443	VV	599	7683	0.12%	0.032%
283	14.492	14.443	14.513	VV	790	21532	0.34%	0.091%
284	14.553	14.513	14.590	VV	675	19819	0.31%	0.084%
285	14.603	14.590	14.637	VV	369	5567	0.09%	0.024%
286	14.702	14.637	14.724	PV	320	9070	0.14%	0.038%
287	14.732	14.724	14.748	VV	369	3125	0.05%	0.013%
288	14.768	14.748	14.807	VV	1044	17644	0.28%	0.074%
289	14.860	14.807	14.872	VV	1108	20364	0.32%	0.086%
290	14.888	14.872	14.917	VV	1751	35130	0.55%	0.148%
291	14.927	14.917	14.947	VV	880	11782	0.18%	0.050%
292	14.972	14.947	15.011	VV	3526	58711	0.92%	0.248%
293	15.023	15.011	15.055	VV	450	6077	0.10%	0.026%
294	15.065	15.055	15.077	VV	298	1894	0.03%	0.008%
295	15.097	15.077	15.134	VV	409	7154	0.11%	0.030%
296	15.151	15.134	15.167	VV	421	5387	0.08%	0.023%
297	15.206	15.167	15.237	VV	504	10781	0.17%	0.046%
298	15.245	15.237	15.270	PV	199	2563	0.04%	0.011%
299	15.300	15.270	15.379	VV	29916	402222	6.30%	1.698%

rteres

300	15.402	15.379	15.424	VV	1761	24996	0.39%	0.106%
301	15.463	15.424	15.485	VV	1632	32592	0.51%	0.138%
302	15.499	15.485	15.555	VV	563	14374	0.23%	0.061%
303	15.577	15.555	15.618	VV	1217	23421	0.37%	0.099%
304	15.625	15.618	15.645	VV	418	4666	0.07%	0.020%
305	15.661	15.645	15.697	VV	533	10260	0.16%	0.043%
306	15.713	15.697	15.741	VV	246	5402	0.08%	0.023%
307	15.771	15.741	15.787	VV	413	7492	0.12%	0.032%
308	15.820	15.787	15.862	VV	1343	27343	0.43%	0.115%
309	15.874	15.862	15.883	VV	418	4323	0.07%	0.018%
310	15.909	15.883	15.925	VV	1063	16383	0.26%	0.069%
311	15.945	15.925	15.980	VV	1269	23648	0.37%	0.100%
312	16.005	15.980	16.045	VV	2414	33968	0.53%	0.143%
313	16.064	16.045	16.102	VV	243	4996	0.08%	0.021%
314	16.138	16.102	16.154	VV	314	6993	0.11%	0.030%
315	16.193	16.154	16.219	VV	331	8119	0.13%	0.034%
316	16.225	16.219	16.244	VV	264	2201	0.03%	0.009%
317	16.256	16.244	16.270	PV	219	1275	0.02%	0.005%
318	16.312	16.270	16.387	VV	10849	178506	2.80%	0.754%
319	16.406	16.387	16.475	VV	1541	48887	0.77%	0.206%
320	16.507	16.475	16.529	VV	1447	23189	0.36%	0.098%
321	16.561	16.529	16.597	VV	828	19361	0.30%	0.082%
322	16.612	16.597	16.668	VV	527	12229	0.19%	0.052%
323	16.675	16.668	16.685	VV	370	1866	0.03%	0.008%
324	16.734	16.685	16.747	PV	453	10819	0.17%	0.046%
325	16.792	16.747	16.838	VV	1470	37466	0.59%	0.158%
326	16.861	16.838	16.870	VV	993	13948	0.22%	0.059%
327	16.891	16.870	16.920	VV	2084	33930	0.53%	0.143%
328	16.967	16.920	16.995	VV	2488	57422	0.90%	0.242%
329	17.005	16.995	17.079	VV	470	18348	0.29%	0.077%
330	17.095	17.079	17.105	VV	380	4563	0.07%	0.019%
331	17.131	17.105	17.188	VV	503	13333	0.21%	0.056%
332	17.199	17.188	17.210	VV	376	2240	0.04%	0.009%
333	17.252	17.210	17.313	VV	5112	108242	1.70%	0.457%
334	17.337	17.313	17.391	VV	3144	60058	0.94%	0.254%
335	17.426	17.391	17.479	VV	963	29951	0.47%	0.126%
336	17.508	17.479	17.532	VV	469	10832	0.17%	0.046%
337	17.564	17.532	17.575	VV	604	11088	0.17%	0.047%
338	17.627	17.575	17.653	VV	607	20179	0.32%	0.085%
339	17.661	17.653	17.673	VV	266	2043	0.03%	0.009%
340	17.734	17.673	17.752	PV	959	30280	0.47%	0.128%
341	17.777	17.752	17.803	VV	3016	44454	0.70%	0.188%
342	17.864	17.803	17.892	VV	2962	51476	0.81%	0.217%
343	17.913	17.892	17.925	VV	687	12540	0.20%	0.053%
344	17.959	17.925	17.975	VV	936	20509	0.32%	0.087%
345	18.005	17.975	18.037	VV	1380	34142	0.53%	0.144%
346	18.064	18.037	18.077	VV	888	18706	0.29%	0.079%
347	18.130	18.077	18.172	VV	14843	281163	4.40%	1.187%
348	18.198	18.172	18.245	VV	5777	124809	1.95%	0.527%
349	18.288	18.245	18.308	VV	1689	54838	0.86%	0.232%
350	18.333	18.308	18.372	VV	7029	107834	1.69%	0.455%
351	18.405	18.372	18.422	VV	1186	20445	0.32%	0.086%

rteres

352	18.448	18.422	18.479	VV	1172	32236	0.50%	0.136%
353	18.506	18.479	18.536	VV	3904	69077	1.08%	0.292%
354	18.554	18.536	18.562	VV	1115	15553	0.24%	0.066%
355	18.604	18.562	18.668	VV	3432	92197	1.44%	0.389%
356	18.704	18.668	18.738	PV	3201	65724	1.03%	0.277%
357	18.748	18.738	18.796	VV	1243	28484	0.45%	0.120%
358	18.816	18.796	18.835	VV	424	5630	0.09%	0.024%
359	18.893	18.835	18.918	PV	3792	59784	0.94%	0.252%
360	18.957	18.918	18.985	PV	11218	164300	2.57%	0.694%

Sum of corrected areas: 23686822

Aromatic EPH 050125.M Fri May 09 09:50:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068806.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 22:19
Operator : YP/AJ
Sample : Q1901-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: May 09 09:09:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.142	2465882	30.737 ug/ml
Spiked Amount 50.000		Recovery = 61.47%	
Target Compounds			

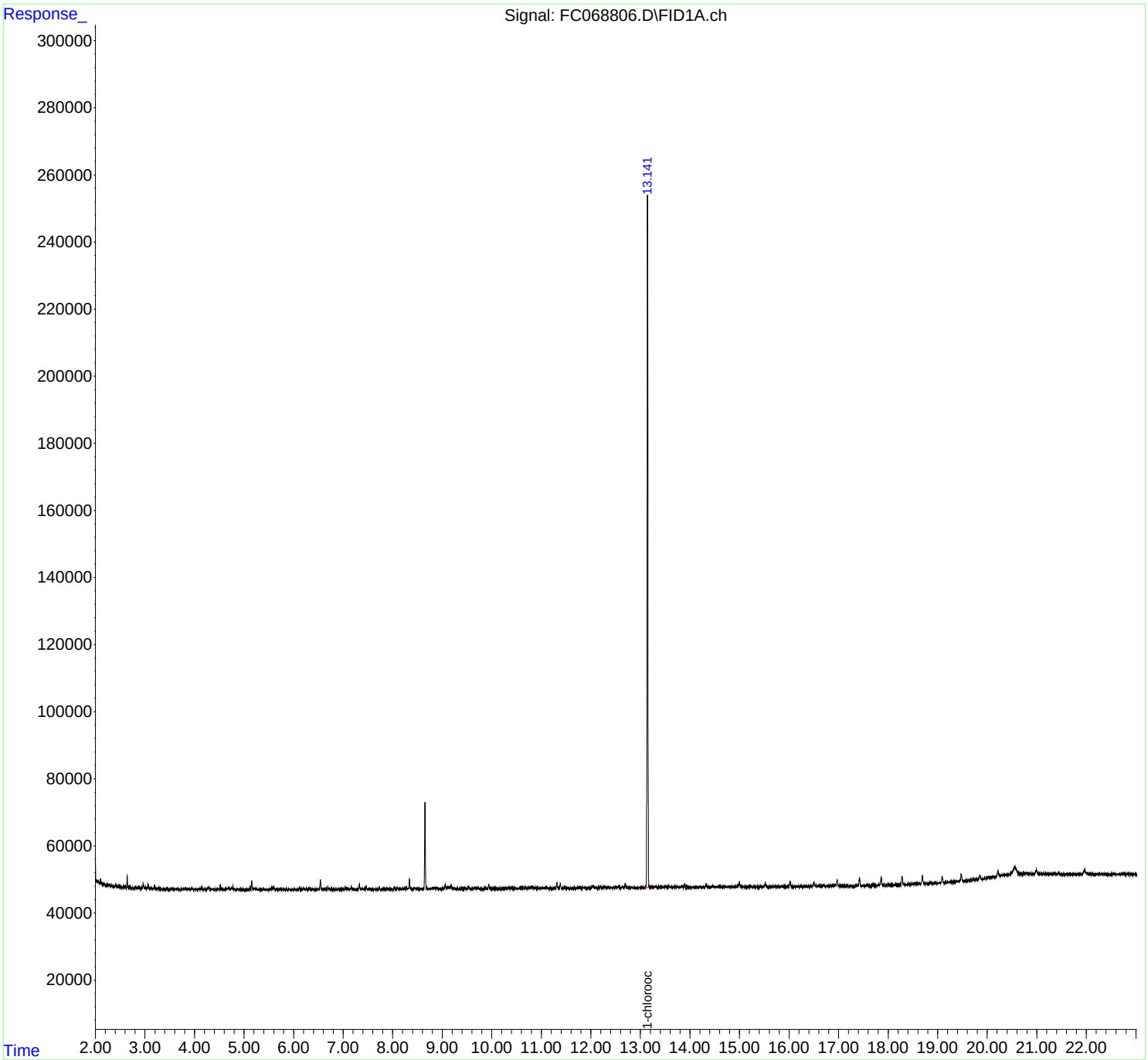
(f)=RT Delta > 1/2 Window (m)=manual int.

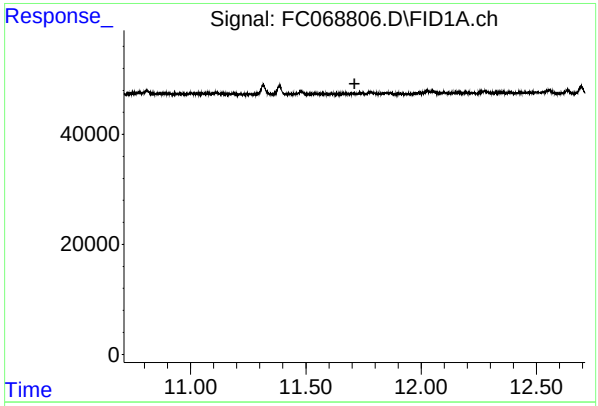
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068806.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 22:19
Operator : YP/AJ
Sample : Q1901-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: May 09 09:09:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

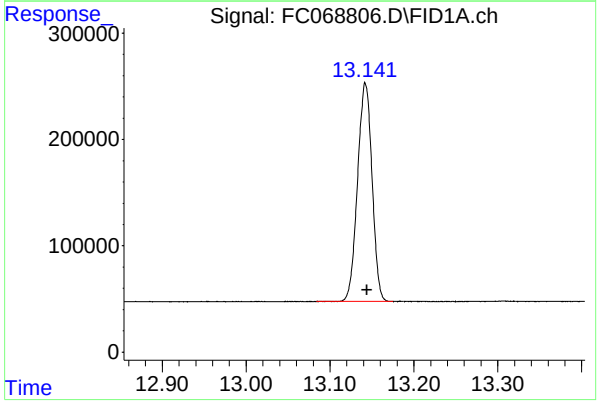




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.711 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-170-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.142 min
Delta R.T.: -0.002 min
Response: 2465882
Conc: 30.74 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068806.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 22:19
Sample : Q1901-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.642	2.603	2.663	BV	3430	25633	1.04%	0.932%
2	8.653	8.600	8.703	BB	25857	257978	10.46%	9.383%
3	13.142	13.083	13.175	BB	206234	2465882	100.00%	89.685%
			Sum of corrected areas:			2749493		

Aliphatic EPH 050625.M Fri May 09 09:42:11 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049332.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 21:41
Operator : YP/AJ
Sample : Q1901-05
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: May 09 09:21:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.741	6746093	56.895 ug/ml
Spiked Amount 50.000		Recovery = 113.79%	
6) S 2-Flurobiphenyl (SURR)	8.607	4263173	53.983 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 107.97%	
11) S ortho-Terphenyl (SURR)	11.650	4011652	29.066 ug/ml
Spiked Amount 50.000		Recovery = 58.13%	
Target Compounds			

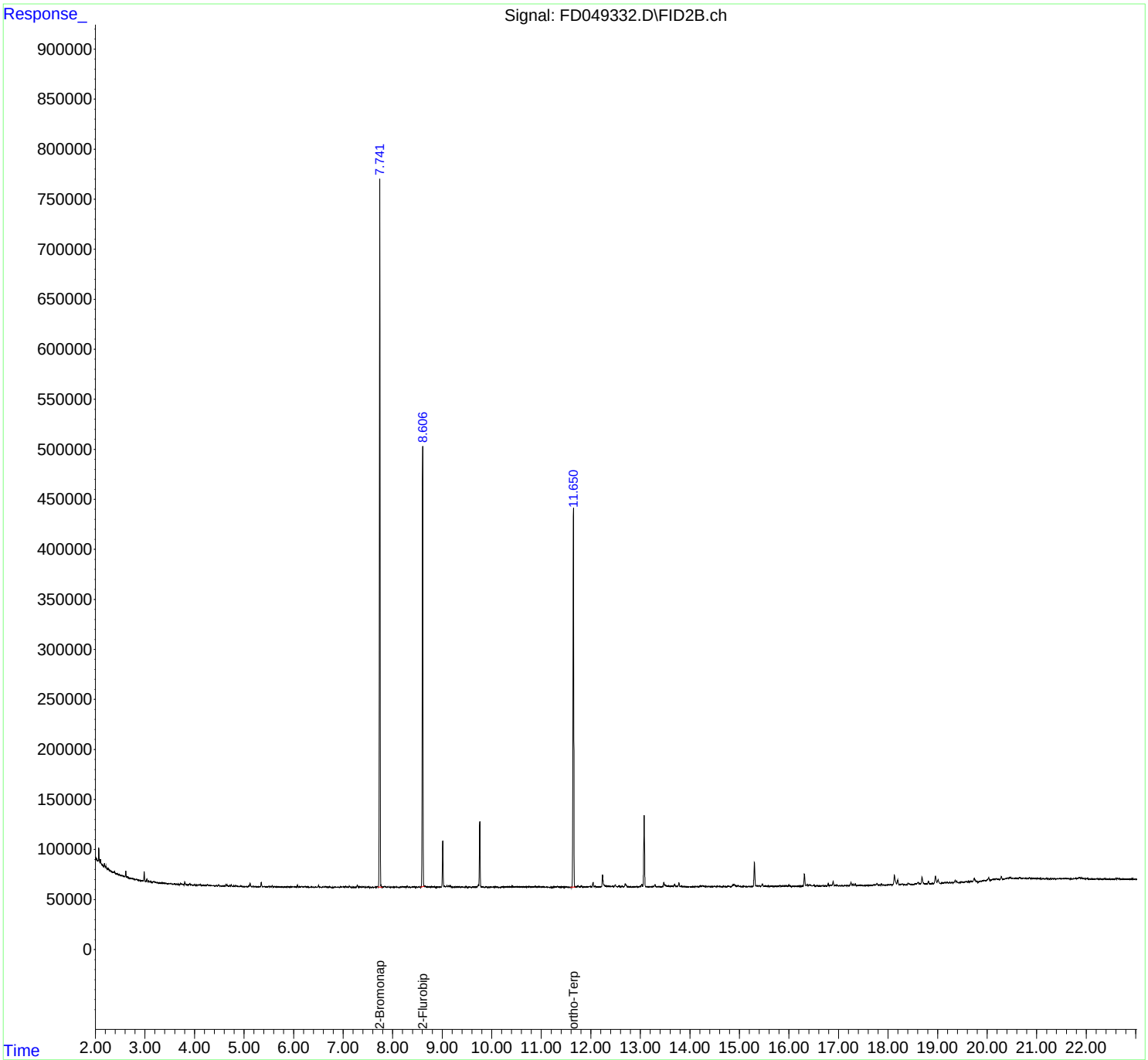
(f)=RT Delta > 1/2 Window (m)=manual int.

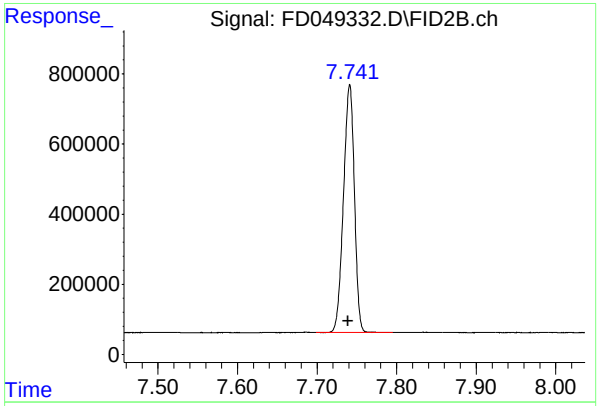
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049332.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 21:41
Operator : YP/AJ
Sample : Q1901-05
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: May 09 09:21:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

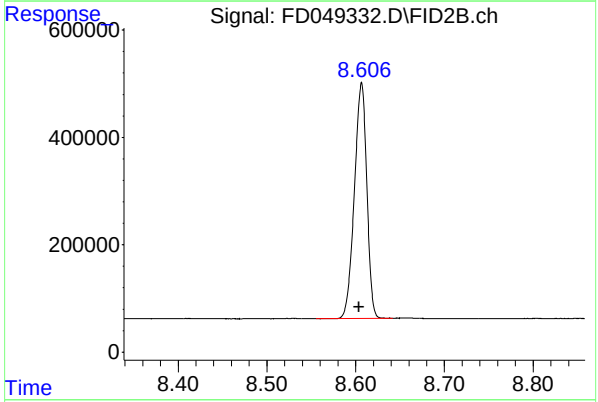




#4 2-Bromonaphthalene (SURR)

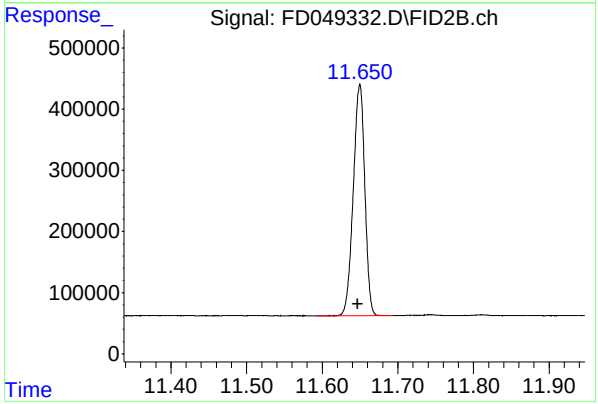
R.T.: 7.741 min
Delta R.T.: 0.002 min
Response: 6746093
Conc: 56.90 ug/ml

Instrument :
FID_D
ClientSampleId :
B-170-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.607 min
Delta R.T.: 0.003 min
Response: 4263173
Conc: 53.98 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.650 min
Delta R.T.: 0.003 min
Response: 4011652
Conc: 29.07 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049332.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 21:41
Sample : Q1901-05
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.264	4.252	4.283	PH	783	9391	0.14%	0.042%
2	4.294	4.283	4.321	PV	656	7745	0.11%	0.034%
3	4.384	4.376	4.402	VV	168	1683	0.02%	0.007%
4	4.430	4.419	4.437	PV	203	1294	0.02%	0.006%
5	4.451	4.437	4.464	VV	515	4408	0.07%	0.020%
6	4.490	4.464	4.517	VV	1417	17023	0.25%	0.076%
7	4.529	4.517	4.557	VV	320	4849	0.07%	0.022%
8	4.588	4.557	4.620	VV	467	12206	0.18%	0.054%
9	4.637	4.620	4.649	VV	1882	18823	0.28%	0.084%
10	4.656	4.649	4.685	VV	1352	15194	0.22%	0.068%
11	4.714	4.685	4.727	VV	1045	10922	0.16%	0.049%
12	4.744	4.727	4.760	VV	1871	16594	0.24%	0.074%
13	4.795	4.769	4.811	VV	848	9583	0.14%	0.043%
14	4.832	4.811	4.889	VV	1012	18246	0.27%	0.081%
15	4.898	4.889	4.903	PV	192	1085	0.02%	0.005%
16	4.911	4.903	4.920	VV	209	1395	0.02%	0.006%
17	4.933	4.920	4.955	VV	717	7221	0.11%	0.032%
18	4.965	4.955	4.976	VV	278	1561	0.02%	0.007%
19	5.019	4.976	5.042	VV	262	4574	0.07%	0.020%
20	5.053	5.048	5.066	VV	324	2215	0.03%	0.010%
21	5.098	5.075	5.107	VV	869	8004	0.12%	0.036%
22	5.123	5.107	5.159	VV	3776	42483	0.63%	0.189%
23	5.183	5.166	5.205	VV	834	10345	0.15%	0.046%
24	5.211	5.205	5.220	VV	246	1456	0.02%	0.006%
25	5.241	5.220	5.266	VV	630	6791	0.10%	0.030%
26	5.279	5.266	5.291	PV	267	1843	0.03%	0.008%
27	5.307	5.291	5.323	VV	348	4994	0.07%	0.022%
28	5.329	5.323	5.332	VV	319	1260	0.02%	0.006%
29	5.347	5.332	5.383	VV	4730	52119	0.77%	0.232%
30	5.394	5.383	5.450	VV	441	10025	0.15%	0.045%
31	5.467	5.450	5.472	VV	219	2122	0.03%	0.009%
32	5.487	5.472	5.509	VV	791	8592	0.13%	0.038%
33	5.525	5.509	5.544	VV	686	8049	0.12%	0.036%
34	5.566	5.544	5.586	VV	1444	15712	0.23%	0.070%
35	5.604	5.586	5.608	VV	471	3824	0.06%	0.017%
36	5.620	5.608	5.642	VV	490	6190	0.09%	0.028%

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37	5.654	5.642	5.659	VV	267	1885	0.03%	0.008%
38	5.683	5.659	5.702	VV	433	6182	0.09%	0.027%
39	5.708	5.702	5.735	VV	421	4672	0.07%	0.021%
40	5.746	5.735	5.755	VV	183	1005	0.01%	0.004%
41	5.769	5.755	5.787	PV	386	4920	0.07%	0.022%
42	5.817	5.787	5.833	VV	342	5321	0.08%	0.024%
43	5.847	5.840	5.856	VV	357	2488	0.04%	0.011%
44	5.872	5.856	5.879	VV	455	4654	0.07%	0.021%
45	5.881	5.879	5.920	VV	476	5683	0.08%	0.025%
46	5.929	5.920	5.933	VV	260	1270	0.02%	0.006%
47	5.938	5.933	5.958	VV	357	3642	0.05%	0.016%
48	5.984	5.958	6.001	VV	788	10835	0.16%	0.048%
49	6.007	6.001	6.012	VV	418	2030	0.03%	0.009%
50	6.023	6.012	6.050	VV	617	10178	0.15%	0.045%
51	6.055	6.050	6.062	VV	494	3050	0.05%	0.014%
52	6.077	6.062	6.100	VV	2099	23085	0.34%	0.103%
53	6.122	6.100	6.142	VV	667	9913	0.15%	0.044%
54	6.164	6.142	6.192	VV	1023	16060	0.24%	0.071%
55	6.223	6.192	6.264	VV	1020	20668	0.31%	0.092%
56	6.277	6.264	6.281	VV	340	2437	0.04%	0.011%
57	6.299	6.281	6.312	VV	459	5056	0.07%	0.022%
58	6.315	6.312	6.325	VV	217	1313	0.02%	0.006%
59	6.332	6.325	6.340	VV	167	1265	0.02%	0.006%
60	6.356	6.340	6.392	VV	1121	16143	0.24%	0.072%
61	6.395	6.392	6.416	VV	272	2347	0.03%	0.010%
62	6.446	6.425	6.458	VV	266	3526	0.05%	0.016%
63	6.472	6.458	6.485	VV	277	2913	0.04%	0.013%
64	6.503	6.485	6.534	VV	1841	23395	0.35%	0.104%
65	6.539	6.534	6.542	VV	315	1362	0.02%	0.006%
66	6.546	6.542	6.557	VV	339	2034	0.03%	0.009%
67	6.590	6.557	6.608	VV	827	10499	0.15%	0.047%
68	6.625	6.608	6.637	VV	833	8223	0.12%	0.037%
69	6.652	6.637	6.674	VV	1190	14601	0.22%	0.065%
70	6.687	6.674	6.703	VV	528	5100	0.08%	0.023%
71	6.728	6.703	6.745	PV	660	8622	0.13%	0.038%
72	6.749	6.745	6.756	VV	256	1097	0.02%	0.005%
73	6.762	6.756	6.777	VV	221	1596	0.02%	0.007%
74	6.781	6.777	6.810	VV	316	2573	0.04%	0.011%
75	6.833	6.810	6.846	VV	438	4991	0.07%	0.022%
76	6.860	6.846	6.875	VV	331	3972	0.06%	0.018%
77	6.880	6.875	6.885	VV	341	1596	0.02%	0.007%
78	6.889	6.885	6.924	VV	368	5279	0.08%	0.023%
79	6.949	6.924	6.967	VV	779	11223	0.17%	0.050%
80	6.970	6.967	6.977	VV	404	1761	0.03%	0.008%
81	7.001	6.977	7.032	VV	1055	21184	0.31%	0.094%
82	7.044	7.032	7.078	VV	946	16979	0.25%	0.075%
83	7.083	7.078	7.095	VV	368	3071	0.05%	0.014%
84	7.127	7.095	7.162	VV	1304	25386	0.37%	0.113%
85	7.167	7.162	7.173	VV	376	1299	0.02%	0.006%
86	7.183	7.173	7.205	VV	501	6022	0.09%	0.027%
87	7.213	7.205	7.225	VV	340	2437	0.04%	0.011%
88	7.234	7.225	7.258	VV	251	2608	0.04%	0.012%
89	7.286	7.258	7.325	VV	2481	34046	0.50%	0.151%

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90	7.346	7.325	7.356	VV	473	6442	0.10%	0.029%
91	7.365	7.356	7.377	VV	552	4634	0.07%	0.021%
92	7.391	7.377	7.409	VV	595	8018	0.12%	0.036%
93	7.424	7.409	7.448	VV	871	10925	0.16%	0.049%
94	7.466	7.448	7.480	VV	382	4957	0.07%	0.022%
95	7.490	7.480	7.505	VV	614	7059	0.10%	0.031%
96	7.513	7.505	7.536	VV	634	7748	0.11%	0.034%
97	7.555	7.536	7.569	VV	229	3144	0.05%	0.014%
98	7.586	7.569	7.623	VV	446	7019	0.10%	0.031%
99	7.643	7.623	7.650	PV	415	4496	0.07%	0.020%
100	7.658	7.650	7.671	VV	438	4431	0.07%	0.020%
101	7.686	7.671	7.706	VV	1220	15795	0.23%	0.070%
102	7.741	7.706	7.809	VV	706624	6775275	100.00%	30.116%
103	7.835	7.809	7.892	VV	1145	31359	0.46%	0.139%
104	7.909	7.892	7.935	VV	1019	14356	0.21%	0.064%
105	7.945	7.935	7.970	VV	412	5404	0.08%	0.024%
106	7.990	7.970	8.005	VV	740	8582	0.13%	0.038%
107	8.019	8.005	8.027	VV	342	3128	0.05%	0.014%
108	8.045	8.027	8.057	VV	460	5574	0.08%	0.025%
109	8.078	8.057	8.110	VV	712	12679	0.19%	0.056%
110	8.116	8.110	8.128	VV	393	2526	0.04%	0.011%
111	8.137	8.128	8.149	VV	321	3182	0.05%	0.014%
112	8.194	8.149	8.224	VV	1000	25831	0.38%	0.115%
113	8.229	8.224	8.237	VV	640	3926	0.06%	0.017%
114	8.240	8.237	8.253	VV	501	3970	0.06%	0.018%
115	8.260	8.253	8.265	VV	488	2970	0.04%	0.013%
116	8.293	8.265	8.316	VV	1692	23738	0.35%	0.106%
117	8.328	8.316	8.352	VV	468	7309	0.11%	0.032%
118	8.358	8.352	8.377	VV	498	5104	0.08%	0.023%
119	8.389	8.377	8.394	VV	588	4468	0.07%	0.020%
120	8.411	8.394	8.471	VV	694	21100	0.31%	0.094%
121	8.489	8.471	8.506	PV	520	6422	0.09%	0.029%
122	8.530	8.506	8.561	VV	816	14715	0.22%	0.065%
123	8.570	8.561	8.575	VV	468	2875	0.04%	0.013%
124	8.607	8.575	8.642	VV	440575	4298654	63.45%	19.107%
125	8.658	8.642	8.687	VV	1727	29619	0.44%	0.132%
126	8.694	8.687	8.714	VV	572	8570	0.13%	0.038%
127	8.720	8.714	8.733	VV	539	5786	0.09%	0.026%
128	8.740	8.733	8.747	VV	605	4245	0.06%	0.019%
129	8.752	8.747	8.757	VV	641	3394	0.05%	0.015%
130	8.761	8.757	8.767	VV	543	2406	0.04%	0.011%
131	8.803	8.767	8.820	VV	797	18872	0.28%	0.084%
132	8.832	8.820	8.839	VV	766	7202	0.11%	0.032%
133	8.852	8.839	8.873	VV	819	10459	0.15%	0.046%
134	8.894	8.873	8.908	VV	536	8244	0.12%	0.037%
135	8.918	8.908	8.930	VV	583	5974	0.09%	0.027%
136	8.940	8.930	8.969	VV	470	8585	0.13%	0.038%
137	8.972	8.969	8.981	VV	441	2671	0.04%	0.012%
138	9.013	8.981	9.037	VV	46602	460785	6.80%	2.048%
139	9.040	9.037	9.044	VV	1217	4949	0.07%	0.022%
140	9.047	9.044	9.084	VV	1134	20736	0.31%	0.092%
141	9.097	9.084	9.116	VV	2095	25802	0.38%	0.115%

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142	9.132	9.116	9.152	VV	1909	27130	0.40%	0.121%
143	9.166	9.152	9.186	VV	1755	22448	0.33%	0.100%
144	9.205	9.186	9.229	VV	857	10103	0.15%	0.045%
145	9.251	9.229	9.279	VV	589	9922	0.15%	0.044%
146	9.303	9.279	9.320	VV	750	12966	0.19%	0.058%
147	9.333	9.320	9.376	VV	880	19257	0.28%	0.086%
148	9.381	9.376	9.387	VV	419	2299	0.03%	0.010%
149	9.397	9.387	9.407	VV	601	5960	0.09%	0.026%
150	9.417	9.407	9.432	VV	570	6000	0.09%	0.027%
151	9.438	9.432	9.455	VV	435	4327	0.06%	0.019%
152	9.479	9.455	9.517	VV	1121	19114	0.28%	0.085%
153	9.532	9.517	9.538	VV	408	3159	0.05%	0.014%
154	9.552	9.538	9.569	VV	575	7198	0.11%	0.032%
155	9.582	9.569	9.588	VV	327	2745	0.04%	0.012%
156	9.618	9.588	9.634	VV	469	7952	0.12%	0.035%
157	9.648	9.634	9.659	VV	418	4611	0.07%	0.020%
158	9.674	9.659	9.701	VV	502	9244	0.14%	0.041%
159	9.729	9.701	9.738	VV	2652	30394	0.45%	0.135%
160	9.760	9.738	9.789	VV	65920	662328	9.78%	2.944%
161	9.792	9.789	9.796	VV	507	1913	0.03%	0.009%
162	9.805	9.796	9.812	VV	574	4807	0.07%	0.021%
163	9.814	9.812	9.820	VV	686	2781	0.04%	0.012%
164	9.830	9.820	9.865	VV	729	10270	0.15%	0.046%
165	9.890	9.865	9.913	VV	1012	15166	0.22%	0.067%
166	9.934	9.913	9.954	VV	280	3574	0.05%	0.016%
167	9.965	9.954	9.996	VV	421	7957	0.12%	0.035%
168	10.002	9.996	10.012	VV	443	3309	0.05%	0.015%
169	10.016	10.012	10.024	VV	402	2311	0.03%	0.010%
170	10.036	10.024	10.070	VV	501	9579	0.14%	0.043%
171	10.087	10.070	10.150	VV	685	13489	0.20%	0.060%
172	10.165	10.150	10.190	VV	317	4957	0.07%	0.022%
173	10.198	10.190	10.204	VV	449	2909	0.04%	0.013%
174	10.220	10.204	10.266	VV	676	17245	0.25%	0.077%
175	10.284	10.266	10.298	VV	537	8119	0.12%	0.036%
176	10.305	10.298	10.322	VV	639	7652	0.11%	0.034%
177	10.326	10.322	10.338	VV	725	5219	0.08%	0.023%
178	10.350	10.338	10.359	VV	745	6835	0.10%	0.030%
179	10.367	10.359	10.394	VV	628	8741	0.13%	0.039%
180	10.413	10.394	10.435	VV	1825	24232	0.36%	0.108%
181	10.440	10.435	10.459	VV	499	6180	0.09%	0.027%
182	10.474	10.459	10.481	VV	659	7098	0.10%	0.032%
183	10.487	10.481	10.497	VV	598	5147	0.08%	0.023%
184	10.514	10.497	10.523	VV	811	10554	0.16%	0.047%
185	10.530	10.523	10.544	VV	739	6964	0.10%	0.031%
186	10.578	10.544	10.591	VV	794	15689	0.23%	0.070%
187	10.602	10.591	10.642	VV	766	18176	0.27%	0.081%
188	10.655	10.642	10.662	VV	734	6964	0.10%	0.031%
189	10.681	10.662	10.693	VV	720	10107	0.15%	0.045%
190	10.723	10.693	10.736	VV	778	15639	0.23%	0.070%
191	10.757	10.736	10.796	VV	1182	23263	0.34%	0.103%
192	10.819	10.796	10.832	VV	788	10701	0.16%	0.048%
193	10.846	10.832	10.859	VV	732	9677	0.14%	0.043%
194	10.878	10.859	10.906	VV	1157	19846	0.29%	0.088%

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195	10.911	10.906	10.929	VV	539	6003	0.09%	0.027%
196	10.954	10.929	10.985	VV	1085	22543	0.33%	0.100%
197	11.001	10.985	11.017	VV	578	8596	0.13%	0.038%
198	11.027	11.017	11.036	VV	540	5012	0.07%	0.022%
199	11.043	11.036	11.071	VV	581	8867	0.13%	0.039%
200	11.079	11.071	11.100	VV	406	4906	0.07%	0.022%
201	11.108	11.100	11.124	VV	475	4188	0.06%	0.019%
202	11.128	11.124	11.140	VV	441	3009	0.04%	0.013%
203	11.144	11.140	11.161	VV	443	3442	0.05%	0.015%
204	11.191	11.161	11.209	PV	346	4717	0.07%	0.021%
205	11.219	11.215	11.230	VV	329	2028	0.03%	0.009%
206	11.261	11.230	11.288	VV	807	14278	0.21%	0.063%
207	11.325	11.288	11.347	VV	1097	18234	0.27%	0.081%
208	11.354	11.347	11.359	VV	383	2134	0.03%	0.009%
209	11.369	11.359	11.417	VV	527	13822	0.20%	0.061%
210	11.423	11.417	11.434	VV	446	3828	0.06%	0.017%
211	11.445	11.434	11.453	VV	381	3001	0.04%	0.013%
212	11.486	11.453	11.498	VV	624	10010	0.15%	0.044%
213	11.518	11.498	11.535	VV	575	8183	0.12%	0.036%
214	11.539	11.535	11.551	VV	337	2051	0.03%	0.009%
215	11.562	11.551	11.585	VV	429	4858	0.07%	0.022%
216	11.599	11.585	11.605	PV	184	1317	0.02%	0.006%
217	11.650	11.605	11.694	VV	379598	4026038	59.42%	17.896%
218	11.719	11.694	11.726	VV	920	12880	0.19%	0.057%
219	11.742	11.726	11.767	VV	1883	27271	0.40%	0.121%
220	11.811	11.767	11.838	VV	1789	33902	0.50%	0.151%
221	11.855	11.838	11.872	VV	530	8074	0.12%	0.036%
222	11.881	11.872	11.904	VV	533	7054	0.10%	0.031%
223	11.906	11.904	11.909	VV	374	1012	0.01%	0.004%
224	11.922	11.909	11.930	VV	477	5199	0.08%	0.023%
225	11.964	11.930	11.969	VV	888	14374	0.21%	0.064%
226	11.985	11.969	12.020	VV	1081	21478	0.32%	0.095%
227	12.045	12.020	12.067	VV	4782	59027	0.87%	0.262%
228	12.086	12.067	12.104	VV	1373	18312	0.27%	0.081%
229	12.110	12.104	12.121	VV	343	3710	0.05%	0.016%
230	12.128	12.121	12.147	VV	533	5944	0.09%	0.026%
231	12.154	12.147	12.159	VV	477	3095	0.05%	0.014%
232	12.162	12.159	12.170	VV	444	2525	0.04%	0.011%
233	12.237	12.170	12.311	VV	12708	221394	3.27%	0.984%
234	12.316	12.311	12.318	VV	1139	4758	0.07%	0.021%
235	12.324	12.318	12.341	VV	1172	14279	0.21%	0.063%
236	12.354	12.341	12.393	VV	1287	29985	0.44%	0.133%
237	12.399	12.393	12.403	VV	832	4668	0.07%	0.021%
238	12.425	12.403	12.432	VV	984	14224	0.21%	0.063%
239	12.436	12.432	12.463	VV	869	14652	0.22%	0.065%
240	12.495	12.463	12.522	VV	2589	47355	0.70%	0.210%
241	12.526	12.522	12.537	VV	610	4662	0.07%	0.021%
242	12.543	12.537	12.545	VV	539	2513	0.04%	0.011%
243	12.572	12.545	12.602	VV	1695	30724	0.45%	0.137%
244	12.606	12.602	12.610	VV	444	1678	0.02%	0.007%
245	12.630	12.610	12.651	VV	1476	21112	0.31%	0.094%
246	12.657	12.651	12.665	VV	549	3548	0.05%	0.016%

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247	12.696	12.665	12.744	VV	3510	73778	1.09%	0.328%
248	12.754	12.744	12.775	VV	547	8232	0.12%	0.037%
249	12.794	12.775	12.824	VV	541	9105	0.13%	0.040%
250	12.846	12.824	12.867	VV	465	7752	0.11%	0.034%
251	12.905	12.867	12.921	VV	599	12874	0.19%	0.057%
252	12.931	12.921	12.972	VV	492	10950	0.16%	0.049%
253	12.993	12.972	13.010	VV	945	13095	0.19%	0.058%
254	13.029	13.010	13.047	VV	2836	36488	0.54%	0.162%
255	13.077	13.047	13.109	VV	71482	836381	12.34%	3.718%
256	13.125	13.109	13.158	VV	548	11775	0.17%	0.052%
257	13.181	13.158	13.227	VV	429	13568	0.20%	0.060%
258	13.242	13.227	13.268	VV	524	10113	0.15%	0.045%
259	13.295	13.268	13.334	VV	2579	38968	0.58%	0.173%
260	13.339	13.334	13.347	VV	462	2934	0.04%	0.013%
261	13.362	13.347	13.397	VV	501	11102	0.16%	0.049%
262	13.409	13.397	13.429	VV	413	5157	0.08%	0.023%
263	13.439	13.429	13.450	VV	450	4466	0.07%	0.020%
264	13.473	13.450	13.555	VV	4677	110284	1.63%	0.490%
265	13.578	13.555	13.599	VV	954	21080	0.31%	0.094%
266	13.616	13.599	13.639	VV	869	16806	0.25%	0.075%
267	13.650	13.639	13.670	VV	785	11800	0.17%	0.052%
268	13.692	13.670	13.721	VV	3038	45228	0.67%	0.201%
269	13.777	13.721	13.806	VV	4398	71384	1.05%	0.317%
270	13.827	13.806	13.884	VV	1120	24512	0.36%	0.109%
271	13.901	13.884	13.933	VV	363	9015	0.13%	0.040%
272	13.942	13.933	13.964	VV	300	3623	0.05%	0.016%
273	13.991	13.964	14.030	VV	335	7144	0.11%	0.032%
274	14.072	14.030	14.085	VV	309	7611	0.11%	0.034%
275	14.134	14.085	14.142	VV	364	7443	0.11%	0.033%
276	14.173	14.142	14.187	VV	383	6972	0.10%	0.031%
277	14.215	14.187	14.239	VV	1198	20905	0.31%	0.093%
278	14.260	14.239	14.307	VV	1423	31570	0.47%	0.140%
279	14.321	14.307	14.365	VV	540	12778	0.19%	0.057%
280	14.382	14.365	14.412	VV	497	9679	0.14%	0.043%
281	14.418	14.412	14.465	VV	354	9459	0.14%	0.042%
282	14.489	14.465	14.509	VV	500	10090	0.15%	0.045%
283	14.519	14.509	14.531	VV	558	5196	0.08%	0.023%
284	14.555	14.531	14.570	VV	656	8851	0.13%	0.039%
285	14.585	14.570	14.616	VV	479	8202	0.12%	0.036%
286	14.645	14.616	14.660	VV	351	5626	0.08%	0.025%
287	14.685	14.660	14.737	VV	397	11440	0.17%	0.051%
288	14.769	14.737	14.801	VV	564	13144	0.19%	0.058%
289	14.859	14.801	14.869	VV	1606	24218	0.36%	0.108%
290	14.888	14.869	14.919	VV	2247	49871	0.74%	0.222%
291	14.925	14.919	14.952	VV	1105	14918	0.22%	0.066%
292	14.971	14.952	14.999	VV	1429	21351	0.32%	0.095%
293	15.003	14.999	15.014	VV	356	2726	0.04%	0.012%
294	15.021	15.014	15.072	VV	377	8522	0.13%	0.038%
295	15.104	15.072	15.154	PV	365	9553	0.14%	0.042%
296	15.179	15.154	15.190	VV	330	4277	0.06%	0.019%
297	15.197	15.190	15.223	VV	286	4380	0.06%	0.019%
298	15.237	15.223	15.269	VV	389	5380	0.08%	0.024%
299	15.301	15.269	15.381	VV	24479	332051	4.90%	1.476%

rteres

300	15.399	15.381	15.422	VV	1087	17343	0.26%	0.077%
301	15.463	15.422	15.502	VV	2907	50573	0.75%	0.225%
302	15.525	15.502	15.552	VV	711	12434	0.18%	0.055%
303	15.579	15.552	15.605	VV	442	8332	0.12%	0.037%
304	15.620	15.605	15.632	VV	398	4811	0.07%	0.021%
305	15.659	15.632	15.697	VV	591	15483	0.23%	0.069%
306	15.714	15.697	15.745	VV	356	7535	0.11%	0.033%
307	15.759	15.745	15.791	VV	382	6012	0.09%	0.027%
308	15.817	15.791	15.851	VV	1255	21303	0.31%	0.095%
309	15.874	15.851	15.892	VV	544	9752	0.14%	0.043%
310	15.906	15.892	15.925	VV	851	11134	0.16%	0.049%
311	15.943	15.925	15.976	VV	927	16352	0.24%	0.073%
312	16.004	15.976	16.063	VV	1478	22392	0.33%	0.100%
313	16.087	16.063	16.108	PV	374	4828	0.07%	0.021%
314	16.129	16.108	16.140	VV	203	2269	0.03%	0.010%
315	16.181	16.140	16.190	VV	281	4398	0.06%	0.020%
316	16.202	16.190	16.221	VV	316	3701	0.05%	0.016%
317	16.255	16.221	16.263	PV	259	4375	0.06%	0.019%
318	16.311	16.263	16.345	VV	12499	169764	2.51%	0.755%
319	16.364	16.345	16.389	VV	1897	30541	0.45%	0.136%
320	16.407	16.389	16.427	VV	1510	27201	0.40%	0.121%
321	16.439	16.427	16.463	VV	1317	18725	0.28%	0.083%
322	16.506	16.463	16.537	VV	1211	24869	0.37%	0.111%
323	16.561	16.537	16.592	VV	826	15410	0.23%	0.068%
324	16.625	16.592	16.643	VV	495	7862	0.12%	0.035%
325	16.681	16.643	16.695	VV	557	10766	0.16%	0.048%
326	16.703	16.695	16.730	VV	299	5606	0.08%	0.025%
327	16.735	16.730	16.754	VV	334	3223	0.05%	0.014%
328	16.790	16.754	16.822	VV	2031	34493	0.51%	0.153%
329	16.848	16.822	16.865	VV	929	19925	0.29%	0.089%
330	16.890	16.865	16.918	VV	4667	65097	0.96%	0.289%
331	16.941	16.918	16.952	VV	974	13103	0.19%	0.058%
332	16.968	16.952	16.999	VV	1122	17302	0.26%	0.077%
333	17.006	16.999	17.016	VV	312	2090	0.03%	0.009%
334	17.038	17.016	17.055	VV	285	4426	0.07%	0.020%
335	17.074	17.055	17.105	VV	310	5407	0.08%	0.024%
336	17.136	17.105	17.175	VV	547	11443	0.17%	0.051%
337	17.182	17.175	17.215	VV	327	4223	0.06%	0.019%
338	17.250	17.215	17.277	VV	3471	55853	0.82%	0.248%
339	17.293	17.277	17.315	VV	1302	23738	0.35%	0.106%
340	17.336	17.315	17.379	VV	1662	27703	0.41%	0.123%
341	17.392	17.379	17.400	PV	204	1706	0.03%	0.008%
342	17.420	17.400	17.462	VV	523	11212	0.17%	0.050%
343	17.469	17.462	17.502	VV	223	2550	0.04%	0.011%
344	17.511	17.502	17.532	PV	172	1315	0.02%	0.006%
345	17.566	17.532	17.600	VV	354	7260	0.11%	0.032%
346	17.622	17.600	17.632	PV	230	3683	0.05%	0.016%
347	17.645	17.632	17.680	VV	341	5663	0.08%	0.025%
348	17.702	17.680	17.711	VV	525	6639	0.10%	0.030%
349	17.739	17.711	17.754	VV	934	16705	0.25%	0.074%
350	17.774	17.754	17.801	VV	2120	31815	0.47%	0.141%
351	17.826	17.801	17.834	VV	414	6951	0.10%	0.031%

					rteres			
352	17.865	17.834	17.891	VV	1401	23440	0.35%	0.104%
353	17.905	17.891	17.920	VV	391	5220	0.08%	0.023%
354	17.931	17.920	17.970	VV	269	5295	0.08%	0.024%
355	17.999	17.970	18.036	VV	479	11075	0.16%	0.049%
356	18.061	18.036	18.080	VV	455	8259	0.12%	0.037%
357	18.128	18.080	18.171	VV	9982	192036	2.83%	0.854%
358	18.193	18.171	18.230	VV	4903	81335	1.20%	0.362%
359	18.289	18.230	18.315	VV	964	26796	0.40%	0.119%
360	18.324	18.315	18.357	VV	335	5115	0.08%	0.023%
361	18.369	18.357	18.380	PV	195	2155	0.03%	0.010%
362	18.405	18.380	18.424	VV	1506	21701	0.32%	0.096%
363	18.441	18.424	18.462	VV	488	9038	0.13%	0.040%
364	18.468	18.462	18.488	VV	363	4190	0.06%	0.019%
365	18.552	18.488	18.561	VV	738	15894	0.23%	0.071%
366	18.603	18.561	18.657	VV	2159	56938	0.84%	0.253%
367	18.685	18.657	18.747	VV	7332	121752	1.80%	0.541%
368	18.773	18.747	18.787	VV	408	6410	0.09%	0.028%
369	18.813	18.787	18.852	VV	2672	38531	0.57%	0.171%
370	18.891	18.852	18.922	PV	545	10004	0.15%	0.044%
371	18.956	18.922	18.984	PV	6923	106898	1.58%	0.475%
			Sum of corrected areas:			22497334		

Aromatic EPH 050125.M Fri May 09 09:53:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068746.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 14:40
Operator : YP/AJ
Sample : Q1901-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
FB04262025

Integration File: sample.E
Quant Time: May 03 00:41:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.149	3985386	42.903 ug/ml
Spiked Amount 50.000		Recovery = 85.81%	
Target Compounds			

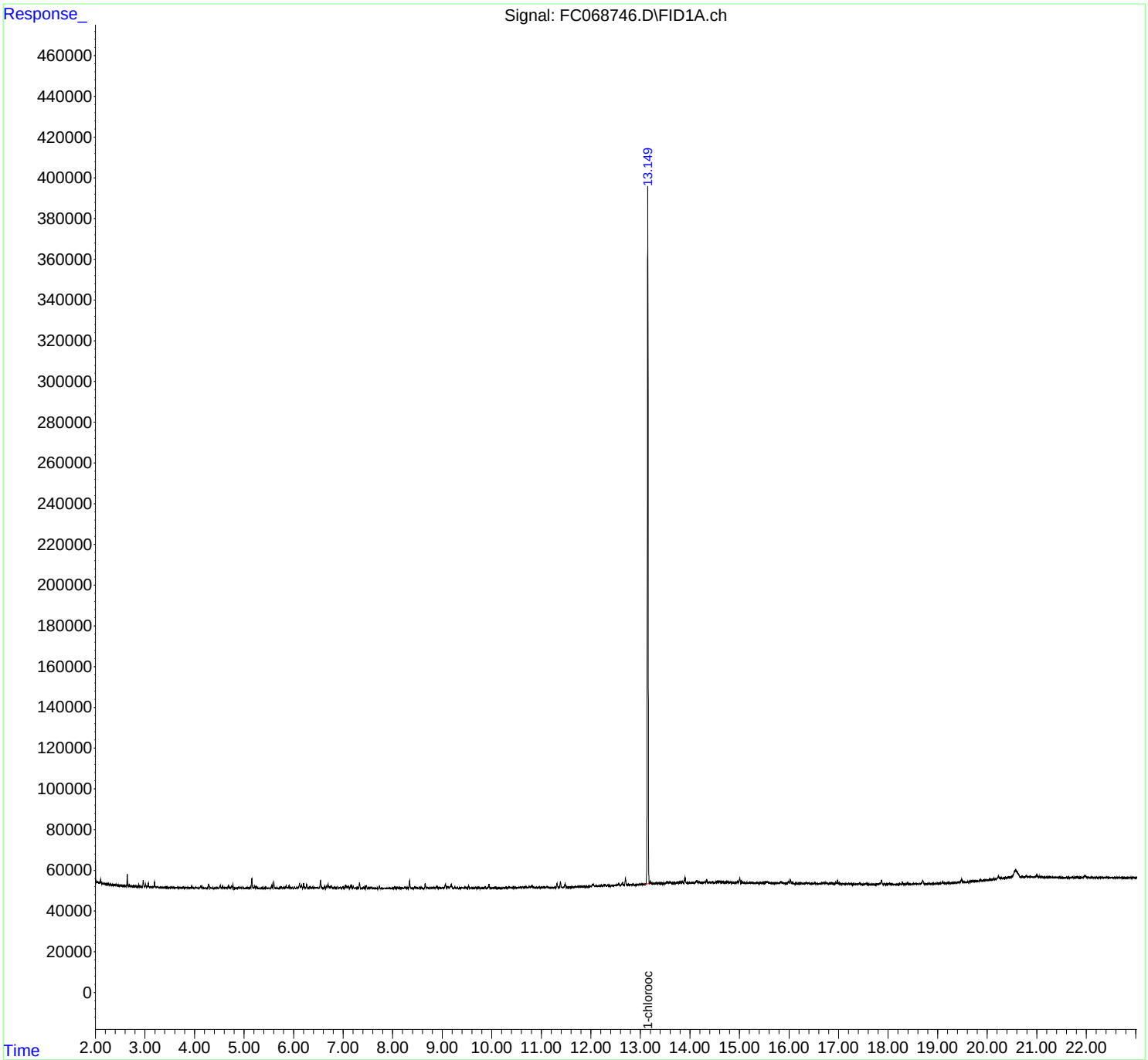
(f)=RT Delta > 1/2 Window (m)=manual int.

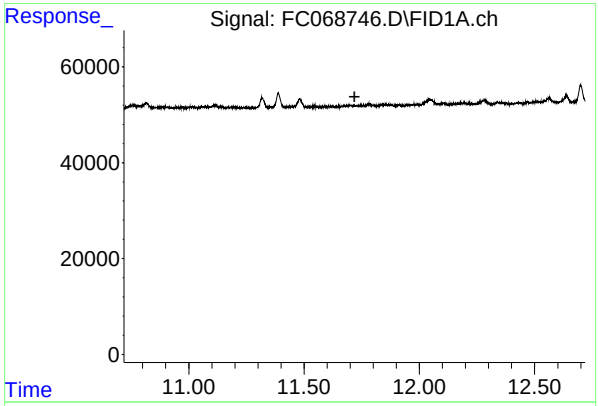
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068746.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 14:40
Operator : YP/AJ
Sample : Q1901-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
FB04262025

Integration File: sample.E
Quant Time: May 03 00:41:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

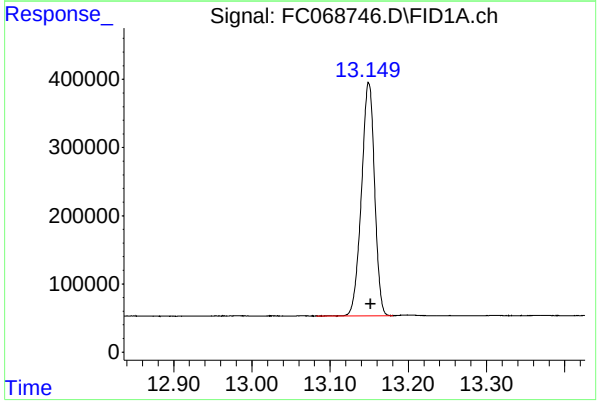




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
FB04262025



#12 1-chlorooctadecane (SURR)

R.T.: 13.149 min
Delta R.T.: -0.003 min
Response: 3985386
Conc: 42.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068746.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 14:40
Sample : Q1901-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.643	2.624	2.660	BV	5892	45056	1.13%	1.071%
2	5.157	5.084	5.192	BV	4716	56810	1.43%	1.350%
3	6.544	6.492	6.590	BB	3719	39174	0.98%	0.931%
4	8.342	8.299	8.389	BB	3674	38904	0.98%	0.924%
5	12.700	12.670	12.744	BB	3537	43108	1.08%	1.024%
6	13.149	13.082	13.180	BV	342804	3985386	100.00%	94.700%
			Sum of corrected areas:			4208437		

Aliphatic EPH 040925.M Sat May 03 03:29:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049313.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 14:40
Operator : YP/AJ
Sample : Q1901-06
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
FB04262025

Integration File: autoint1.e
Quant Time: May 03 00:34:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.742	7791580	65.713 ug/ml
Spiked Amount 50.000		Recovery = 131.43%	
6) S 2-Flurobiphenyl (SURR)	8.608	5316724	67.324 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 134.65%#	
11) S ortho-Terphenyl (SURR)	11.654	8573546	62.118 ug/ml
Spiked Amount 50.000		Recovery = 124.24%	
Target Compounds			

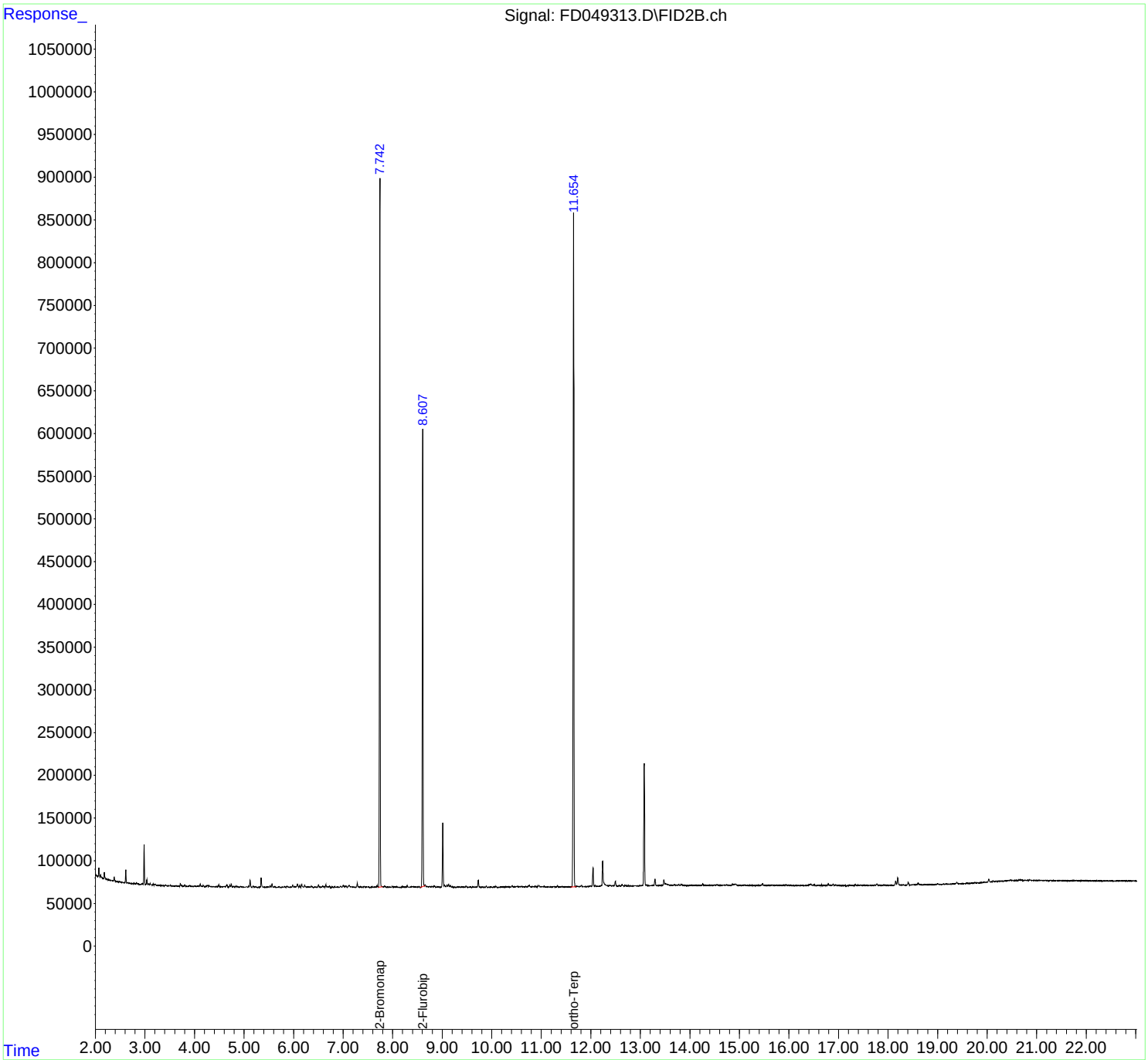
(f)=RT Delta > 1/2 Window (m)=manual int.

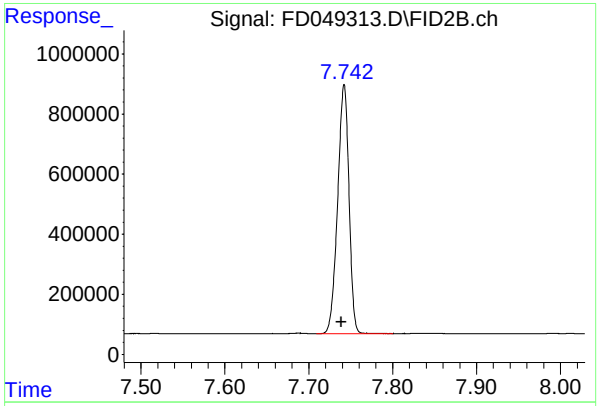
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049313.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 14:40
Operator : YP/AJ
Sample : Q1901-06
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
FB04262025

Integration File: autoint1.e
Quant Time: May 03 00:34:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

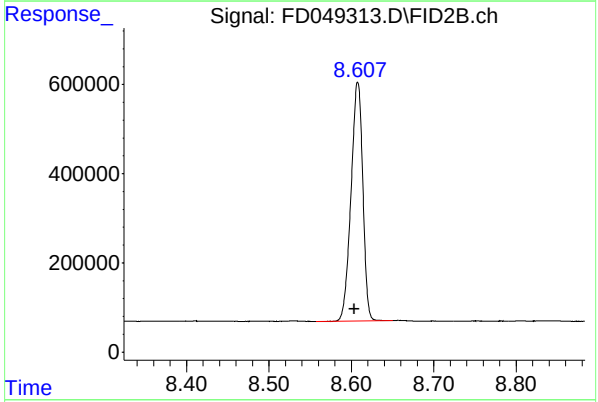




#4 2-Bromonaphthalene (SURR)

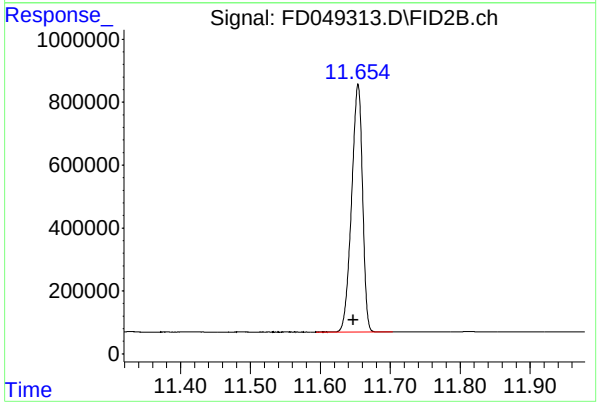
R.T.: 7.742 min
Delta R.T.: 0.003 min
Response: 7791580
Conc: 65.71 ug/ml

Instrument :
FID_D
ClientSampleId :
FB04262025



#6 2-Flurobiphenyl (SURR)

R.T.: 8.608 min
Delta R.T.: 0.004 min
Response: 5316724
Conc: 67.32 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.654 min
Delta R.T.: 0.007 min
Response: 8573546
Conc: 62.12 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049313.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 14:40
Sample : Q1901-06
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.069	2.052	2.095	BV	10628	88223	1.03%	0.342%
2	2.179	2.142	2.209	BV	7453	53643	0.63%	0.208%
3	2.613	2.565	2.642	BV	15548	120404	1.40%	0.467%
4	2.982	2.949	3.006	BV	46337	368410	4.30%	1.427%
5	5.123	5.107	5.157	BB	7936	77170	0.90%	0.299%
6	5.345	5.287	5.387	BB	11290	114698	1.34%	0.444%
7	7.742	7.709	7.800	BB	829882	7791580	90.88%	30.190%
8	8.608	8.557	8.650	BV	537549	5316724	62.01%	20.601%
9	9.013	8.964	9.035	BV	74363	716590	8.36%	2.777%
10	9.730	9.687	9.767	BB	8269	90755	1.06%	0.352%
11	11.654	11.594	11.704	BB	788466	8573546	100.00%	33.220%
12	12.046	12.010	12.070	BV	21737	241631	2.82%	0.936%
13	12.239	12.165	12.320	BB	29270	369883	4.31%	1.433%
14	13.078	13.044	13.108	BV	142892	1644505	19.18%	6.372%
15	13.296	13.255	13.339	BB	7682	90489	1.06%	0.351%
16	13.474	13.385	13.504	BB	5225	33920	0.40%	0.131%
17	18.195	18.172	18.228	VB	8809	116193	1.36%	0.450%
			Sum of corrected areas:			25808364		

Aromatic EPH 050125.M Sat May 03 02:56:57 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068743.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 11:36
Operator : YP/AJ
Sample : PB167840BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167840BL

Integration File: sample.E
Quant Time: May 03 00:40:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.150	3635026	39.131 ug/ml
Spiked Amount 50.000		Recovery = 78.26%	
Target Compounds			

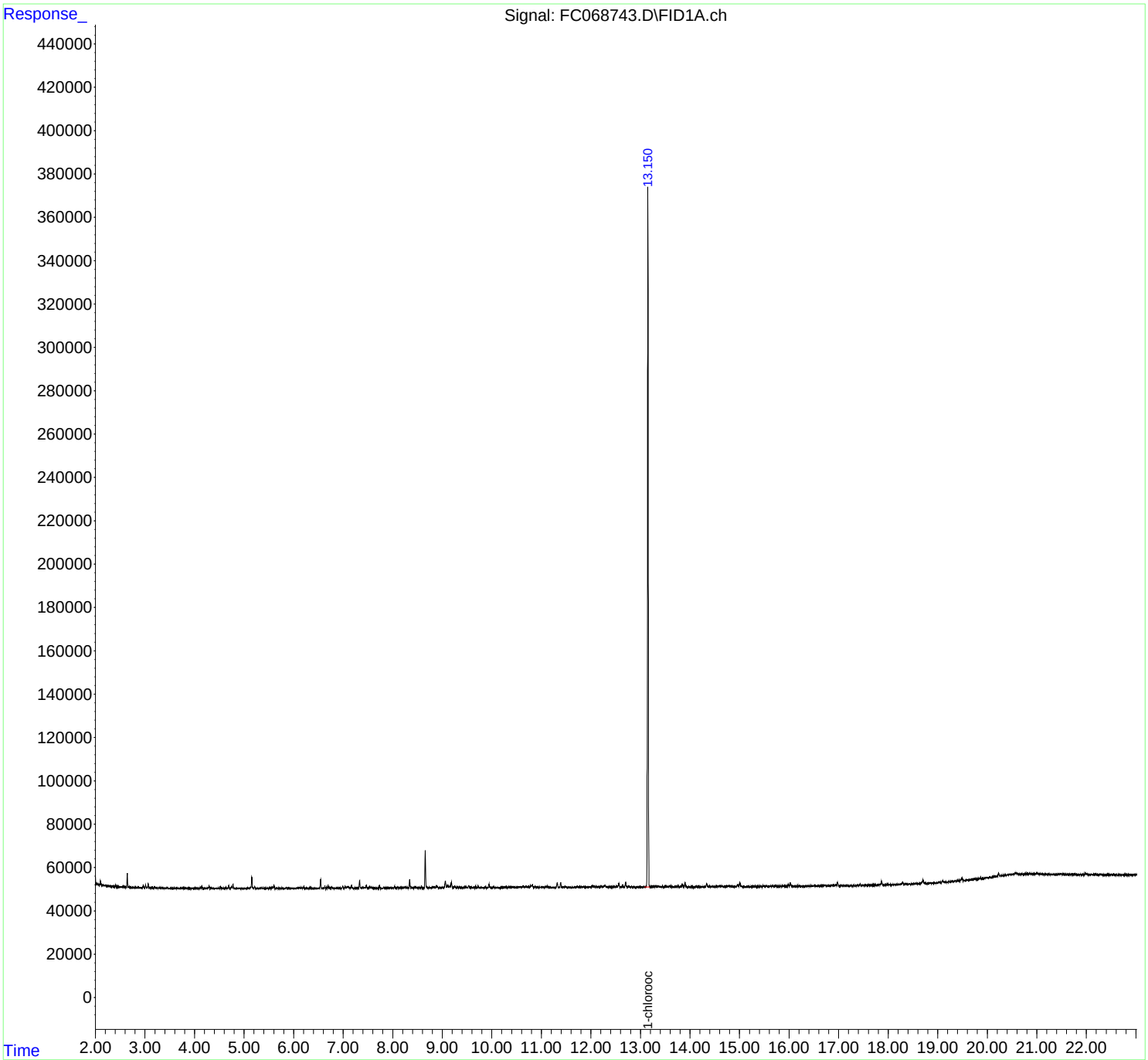
(f)=RT Delta > 1/2 Window (m)=manual int.

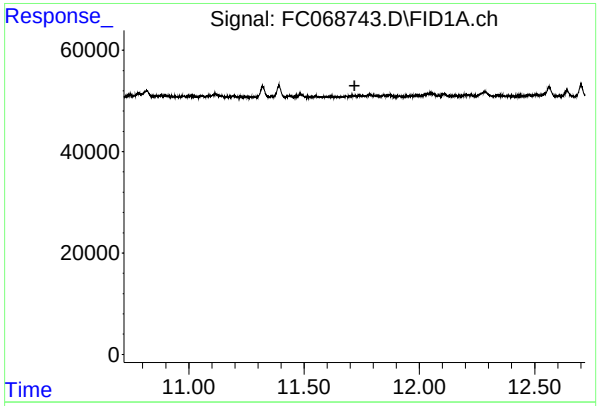
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068743.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 11:36
Operator : YP/AJ
Sample : PB167840BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167840BL

Integration File: sample.E
Quant Time: May 03 00:40:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

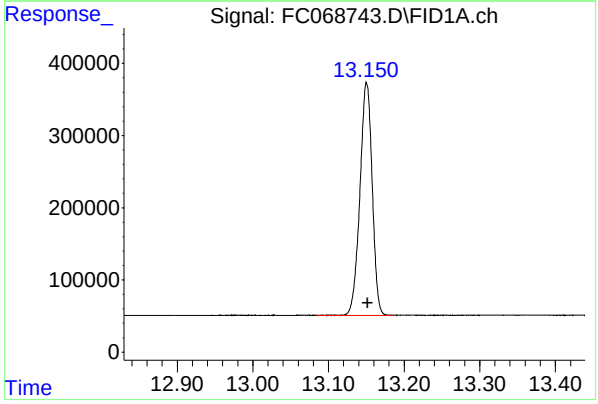




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB167840BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.150 min
Delta R.T.: -0.001 min
Response: 3635026
Conc: 39.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068743.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 11:36
Sample : PB167840BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.150	13.084	13.185	BB	322352	3635026	100.00%	100.000%
			Sum of corrected areas:			3635026		

Aliphatic EPH 040925.M Sat May 03 03:25:53 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049310.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 11:36
Operator : YP/AJ
Sample : PB167840BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167840BL

Integration File: autoint1.e
Quant Time: May 03 00:33:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.740	6287428	53.027 ug/ml
Spiked Amount 50.000		Recovery = 106.05%	
6) S 2-Flurobiphenyl (SURR)	8.606	4025356	50.972 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 101.94%	
11) S ortho-Terphenyl (SURR)	11.653	7454174	54.008 ug/ml
Spiked Amount 50.000		Recovery = 108.02%	
Target Compounds			

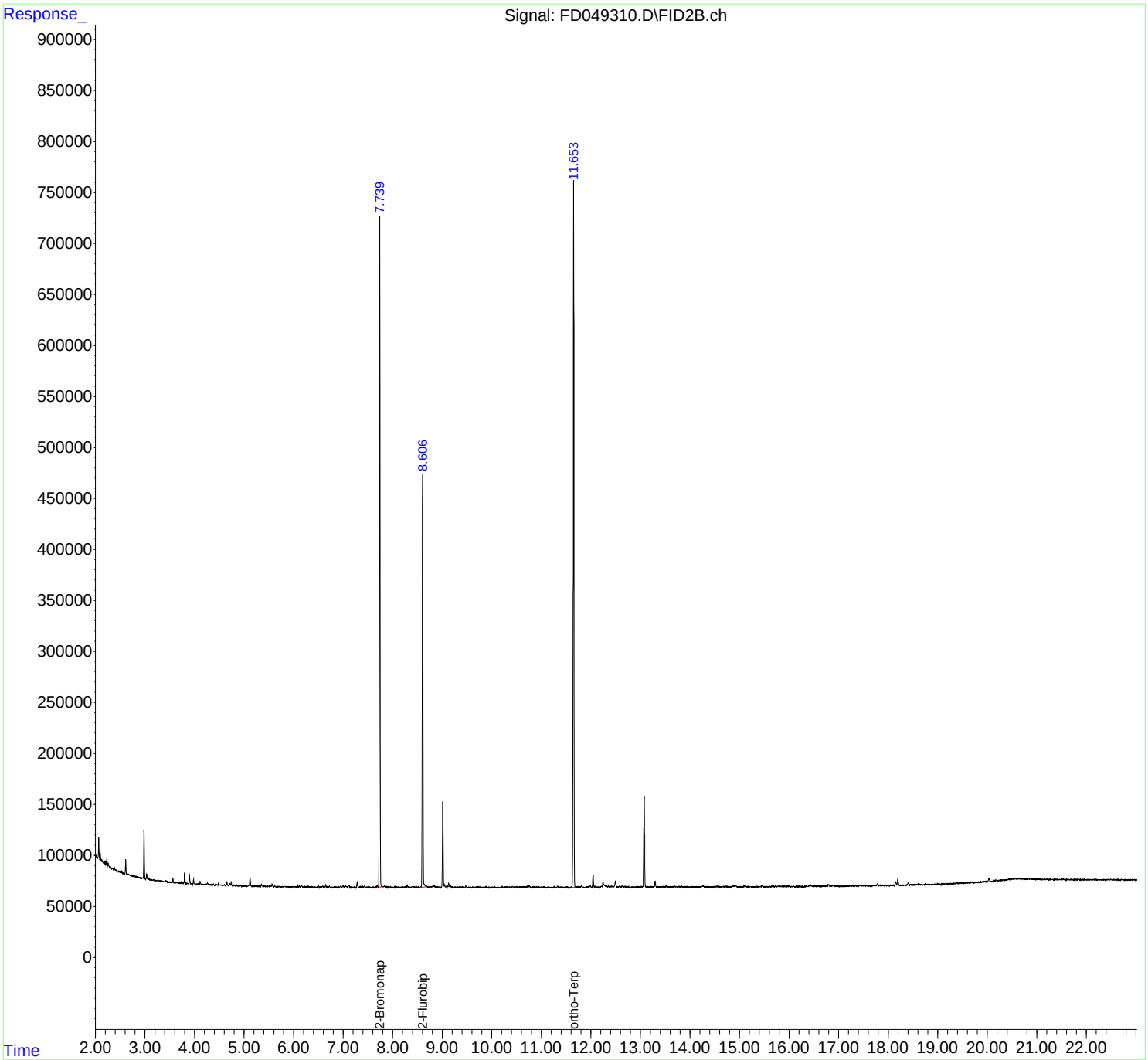
(f)=RT Delta > 1/2 Window (m)=manual int.

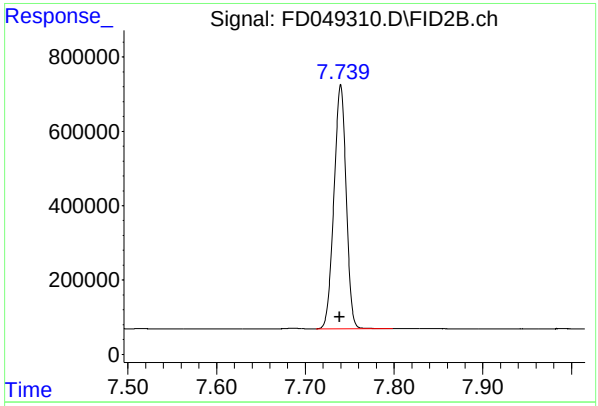
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049310.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 11:36
Operator : YP/AJ
Sample : PB167840BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167840BL

Integration File: autoint1.e
Quant Time: May 03 00:33:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

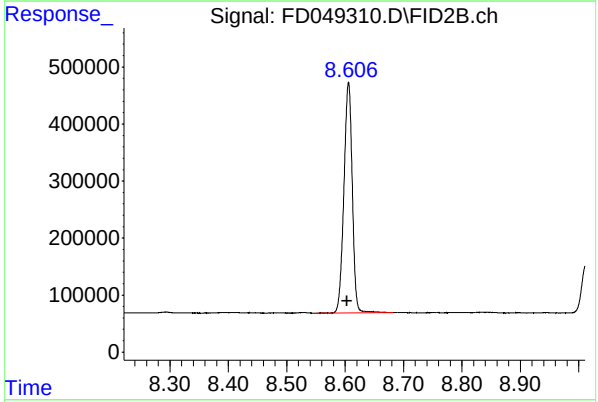




#4 2-Bromonaphthalene (SURR)

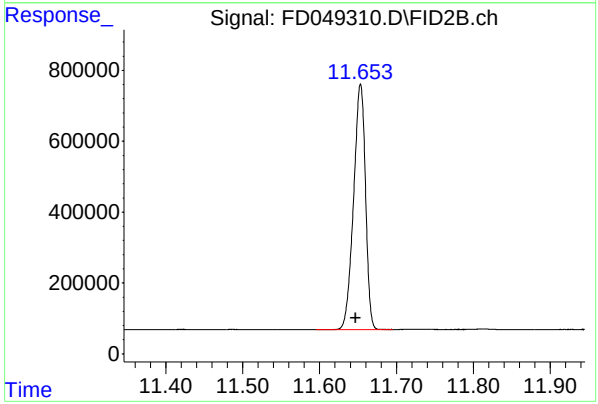
R.T.: 7.740 min
Delta R.T.: 0.001 min
Response: 6287428
Conc: 53.03 ug/ml

Instrument :
FID_D
ClientSampleId :
PB167840BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.606 min
Delta R.T.: 0.002 min
Response: 4025356
Conc: 50.97 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.653 min
Delta R.T.: 0.006 min
Response: 7454174
Conc: 54.01 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049310.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 11:36
Sample : PB167840BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.740	7.712	7.799	BB	657441	6287428	84.35%	35.388%
2	8.606	8.550	8.682	BB	404222	4025356	54.00%	22.656%
3	11.653	11.595	11.695	BB	693572	7454174	100.00%	41.955%
			Sum of corrected areas:			17766958		

Aromatic EPH 050125.M Sat May 03 02:46:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068792.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 12:24
Operator : YP/AJ
Sample : PB167903BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167903BL

Integration File: autoint1.e
Quant Time: May 09 09:53:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.143	3618503	45.104 ug/ml
Spiked Amount 50.000		Recovery = 90.21%	
Target Compounds			

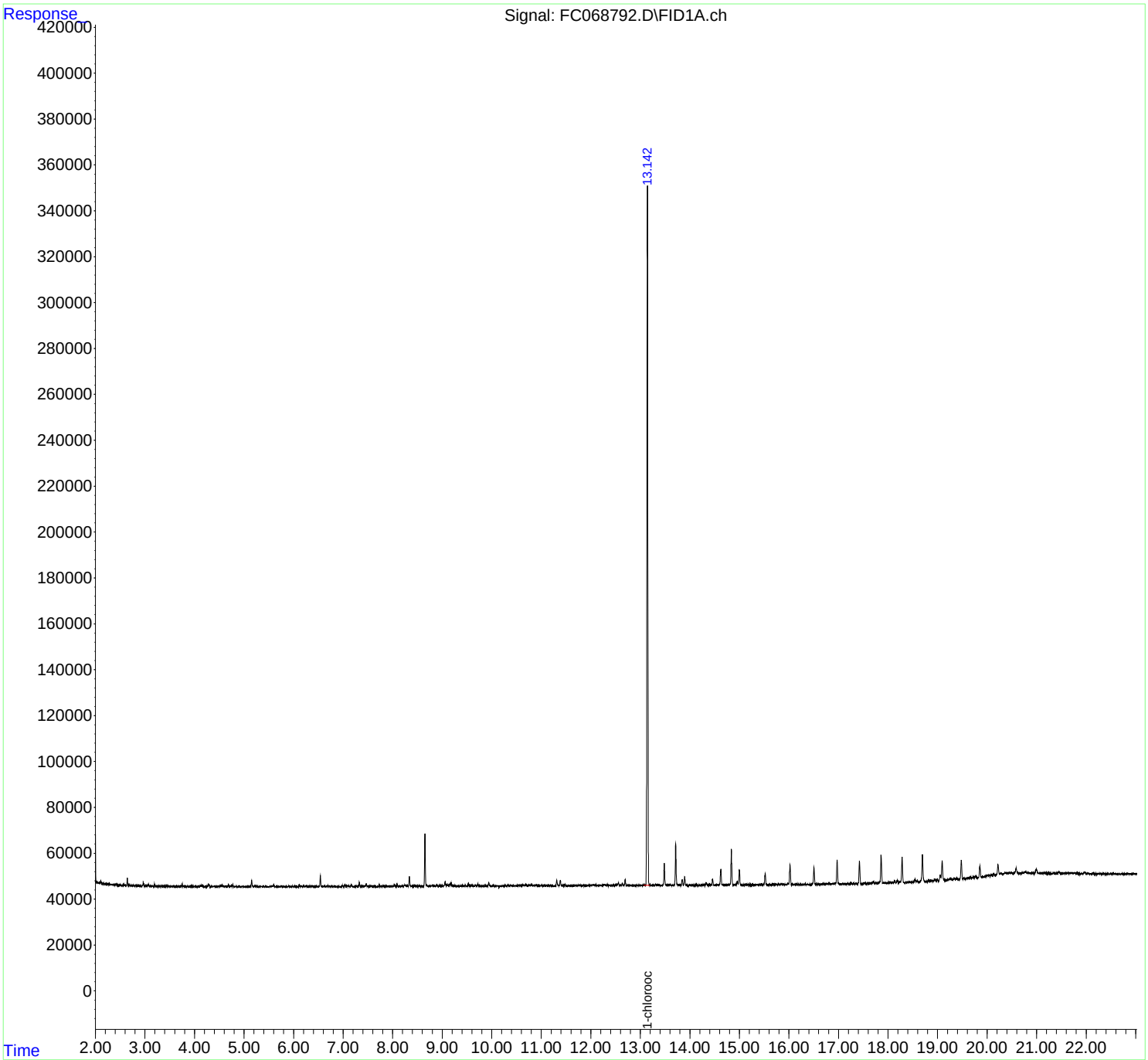
(f)=RT Delta > 1/2 Window (m)=manual int.

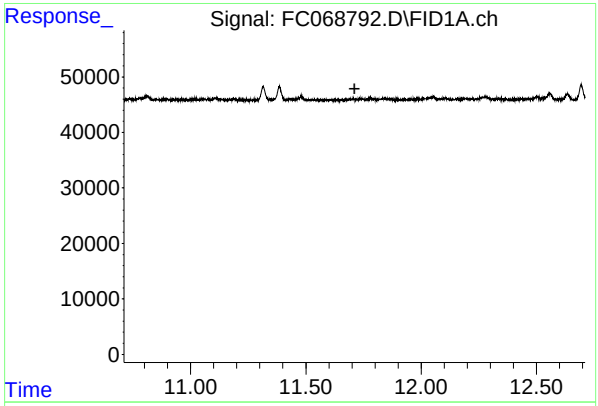
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068792.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 12:24
Operator : YP/AJ
Sample : PB167903BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167903BL

Integration File: autoint1.e
Quant Time: May 09 09:53:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

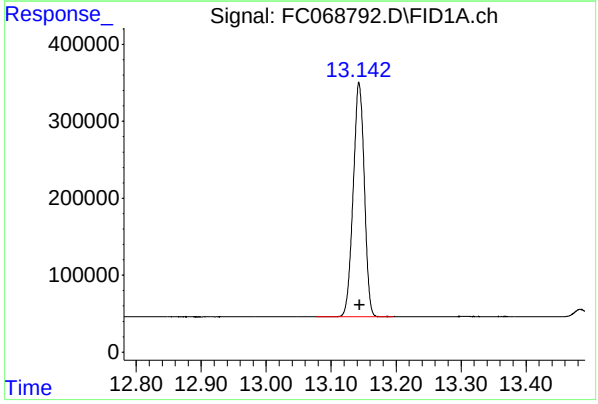




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.711 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB167903BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.143 min
Delta R.T.: 0.000 min
Response: 3618503
Conc: 45.10 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068792.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 12:24
Sample : PB167903BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.143	13.077	13.195	BB	303150	3618503	100.00%	100.000%
			Sum of corrected areas:			3618503		

Aliphatic EPH 050625.M Fri May 09 09:56:40 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049319.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 12:24
Operator : YP/AJ
Sample : PB167903BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167903BL

Integration File: autoint1.e
Quant Time: May 09 10:00:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.742	7241114	61.070 ug/ml
Spiked Amount 50.000		Recovery = 122.14%	
6) S 2-Flurobiphenyl (SURR)	8.607	4558275	57.720 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 115.44%	
11) S ortho-Terphenyl (SURR)	11.653	7029721	50.932 ug/ml
Spiked Amount 50.000		Recovery = 101.86%	
Target Compounds			

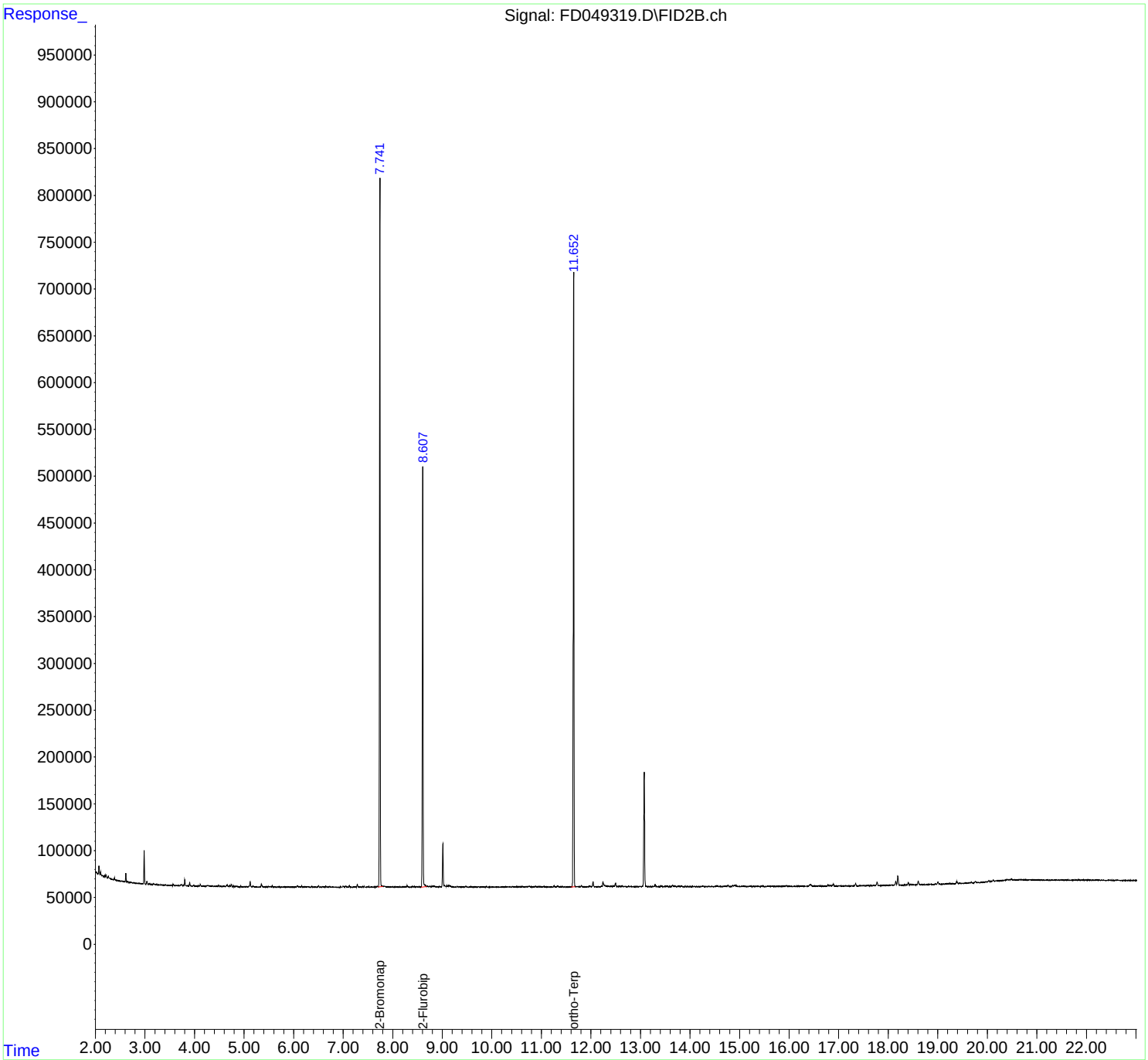
(f)=RT Delta > 1/2 Window (m)=manual int.

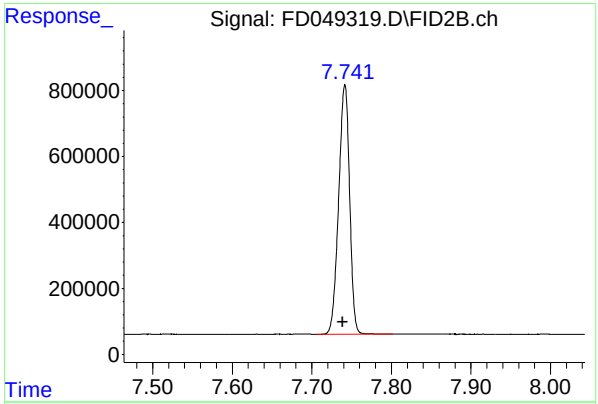
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049319.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 12:24
Operator : YP/AJ
Sample : PB167903BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167903BL

Integration File: autoint1.e
Quant Time: May 09 10:00:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

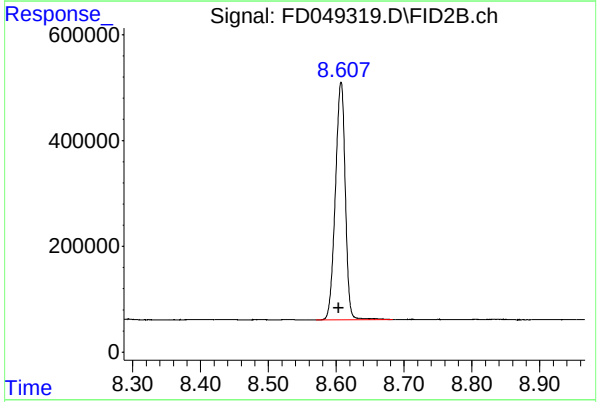




#4 2-Bromonaphthalene (SURR)

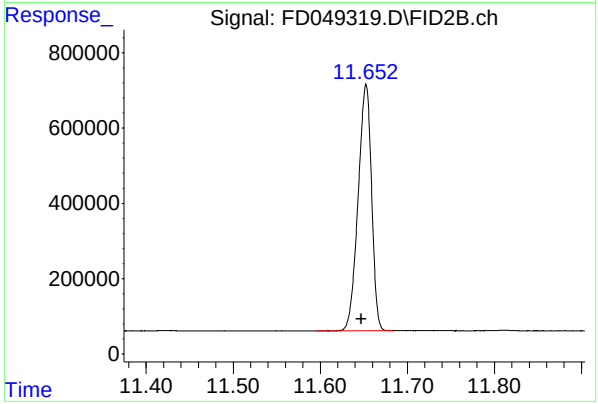
R.T.: 7.742 min
Delta R.T.: 0.003 min
Response: 7241114
Conc: 61.07 ug/ml

Instrument :
FID_D
ClientSampleId :
PB167903BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.607 min
Delta R.T.: 0.004 min
Response: 4558275
Conc: 57.72 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.653 min
Delta R.T.: 0.006 min
Response: 7029721
Conc: 50.93 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049319.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 12:24
Sample : PB167903BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.742	7.705	7.802	BB	757481	7241114	100.00%	38.457%
2	8.607	8.570	8.684	BB	449432	4558275	62.95%	24.209%
3	11.653	11.595	11.684	BB	655670	7029721	97.08%	37.334%
			Sum of corrected areas:			18829110		

Aromatic EPH 050125.M Fri May 09 10:04:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068744.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 13:26
Operator : YP/AJ
Sample : PB167840BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167840BS

Integration File: sample.E
Quant Time: May 03 00:40:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.150	3738287	40.243 ug/ml
Spiked Amount	50.000		Recovery =	80.49%
	Target Compounds			
1) T	n-Nonane (C9)	3.444	2706378	25.696 ug/ml
2) T	n-Decane (C10)	4.520	3309614	31.412 ug/ml
4) T	n-Dodecane (C12)	6.546	3768952	35.839 ug/ml
6) T	n-Tetradecane (C14)	8.344	4291565	41.745 ug/ml
7) T	n-Hexadecane (C16)	9.948	4818648	47.315 ug/ml
8) T	n-Octadecane (C18)	11.392	5159020	51.266 ug/ml
10) T	n-Eicosane (C20)	12.704	5388595	54.784 ug/ml
11) T	n-Heneicosane (C21)	13.317	5166346	53.012 ug/ml
13) T	n-Docosane (C22)	13.904	5155796	53.375 ug/ml
14) T	n-Tetracosane (C24)	15.007	5066549	53.229 ug/ml
15) T	n-Hexacosane (C26)	16.030	4935571	52.841 ug/ml
16) T	n-Octacosane (C28)	16.982	4906702	53.592 ug/ml
17) T	n-Tricontane (C30)	17.871	4975874	54.126 ug/ml
18) T	n-Dotriacontane (C32)	18.705	4957894	54.050 ug/ml
19) T	n-Tetratriacontane (C34)	19.490	4887925	54.712 ug/ml
20) T	n-Hexatriacontane (C36)	20.231	4693982	52.400 ug/ml
21) T	n-Octatriacontane (C38)	21.008	4601167	52.042 ug/ml
22) T	n-Tetracontane (C40)	21.991	4517606	51.159 ug/ml

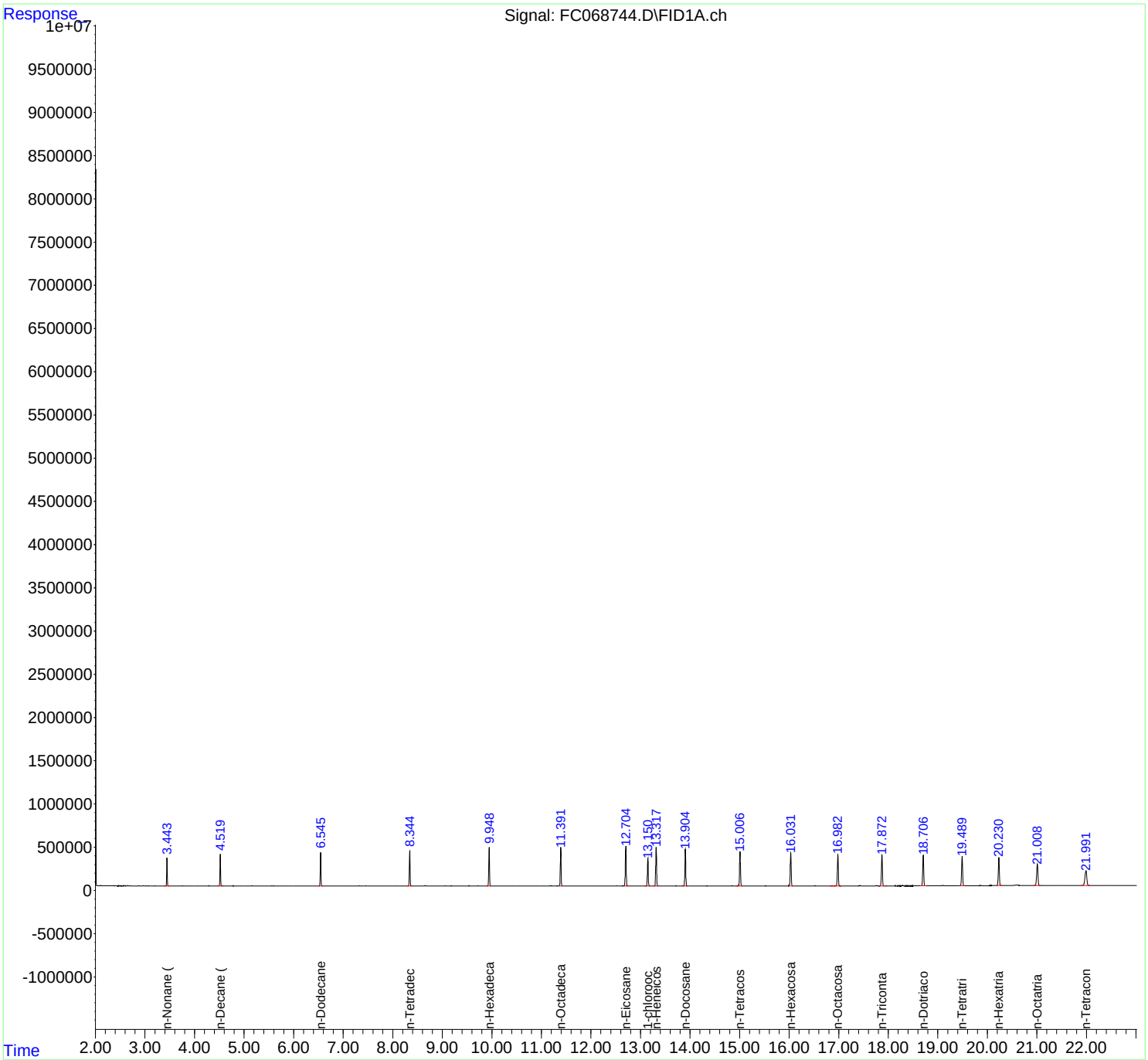
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068744.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 13:26
Operator : YP/AJ
Sample : PB167840BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167840BS

Integration File: sample.E
Quant Time: May 03 00:40:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068744.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 13:26
Sample : PB167840BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.444	3.383	3.495	BB	325260	2706378	50.22%	3.109%
2	4.520	4.465	4.553	BV	368176	3309614	61.42%	3.802%
3	6.546	6.483	6.583	BB	387810	3768952	69.94%	4.330%
4	8.344	8.285	8.395	BB	410299	4291565	79.64%	4.930%
5	9.948	9.900	9.995	BB	450385	4818648	89.42%	5.536%
6	11.392	11.353	11.423	BB	448540	5159020	95.74%	5.927%
7	12.704	12.663	12.748	PB	461506	5388595	100.00%	6.190%
8	13.150	13.078	13.192	BB	320529	3738287	69.37%	4.295%
9	13.317	13.257	13.348	BB	448690	5166346	95.88%	5.935%
10	13.904	13.866	13.942	VB	423580	5155796	95.68%	5.923%
11	15.007	14.918	15.063	BB	400014	5066549	94.02%	5.821%
12	16.030	15.990	16.073	BB	378841	4935571	91.59%	5.670%
13	16.982	16.818	17.052	BB	368541	4906702	91.06%	5.637%
14	17.871	17.805	17.925	BB	365360	4975874	92.34%	5.716%
15	18.705	18.642	18.767	BB	355829	4957894	92.01%	5.696%
16	19.490	19.440	19.538	BB	340475	4887925	90.71%	5.615%
17	20.231	20.180	20.293	BB	328136	4693982	87.11%	5.393%
18	21.008	20.930	21.080	BB	245102	4601167	85.39%	5.286%
19	21.991	21.892	22.080	BB	171719	4517606	83.84%	5.190%
			Sum of corrected areas:			87046470		

Aliphatic EPH 040925.M Sat May 03 03:28:21 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049311.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049311.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 13:26
Operator : YP/AJ
Sample : PB167840BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167840BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Integration File: autoint1.e
Quant Time: May 03 00:34:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.742	7423816	62.611 ug/ml
	Spiked Amount 50.000		Recovery = 125.22%	
6)	S 2-Flurobiphenyl (SURR)	8.608	5176330	65.546 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 131.09%#	
11)	S ortho-Terphenyl (SURR)	11.654	7629284	55.276 ug/ml
	Spiked Amount 50.000		Recovery = 110.55%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.532	4647787	37.225 ug/ml
2)	T Naphthalene (C11.7)	6.076	5482829	41.472 ug/ml
3)	T 2-Methylnaphthalene (...	7.131	5354996	41.511 ug/ml
5)	T Acenaphthylene (C15.06)	8.411	6615897	46.866 ug/ml
7)	T Acenaphthene (C15.5)	8.708	7010260	51.165 ug/ml
8)	T Flouorene (C16.55)	9.489	7355155	54.036 ug/ml
9)	T Phenanthrene (C19.36)	10.890	7866617	58.348 ug/ml
10)	T Anthracene (C19.43)	10.965	7619007	64.421 ug/ml
12)	T Fluoranthene (C21.85)	12.706	8144987	60.438 ug/ml
13)	T Pyrene (C20.8)	13.004	8193681	60.570 ug/ml
14)	T Benzo[a]anthracene (C...	14.875	7375259	64.388 ug/ml
15)	T Chrysene (C27.41)	14.920	7905755	67.736 ug/ml
16)	T benzo[b]fluoranthene ...	16.428	7295841	60.104 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.463	7313872	61.325 ug/mlm
18)	T Benzo[a]pyrene (C31.34)	16.809	6986144	60.758 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.176	7357310	67.041 ug/ml
20)	T Dibenz[a,h]anthracene...	18.214	6769020	64.092 ug/mlm
21)	T Benzo[g,h,i]perylene ...	18.434	6976907	58.546 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FD049311.D**

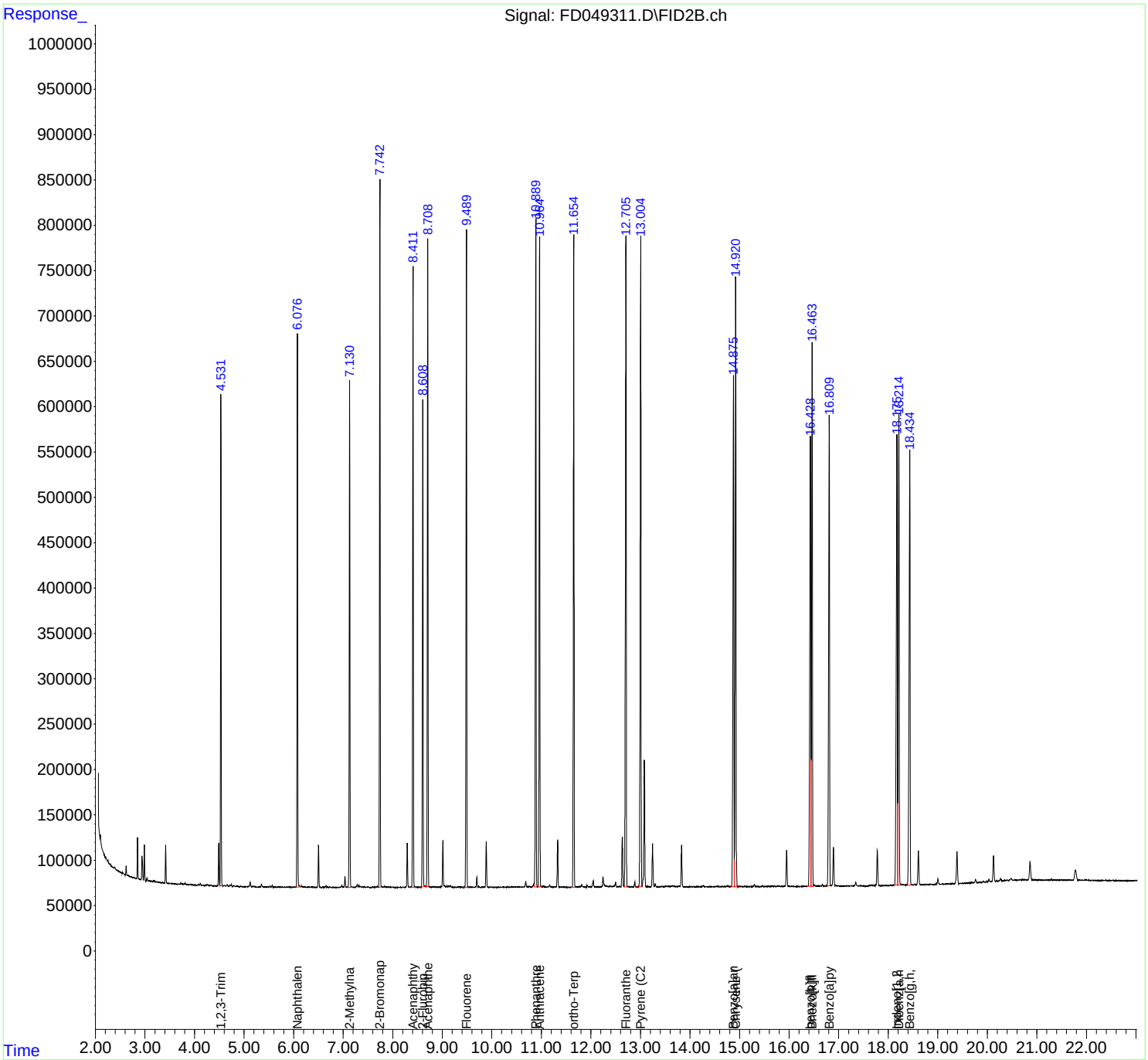
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049311.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 13:26
Operator : YP/AJ
Sample : PB167840BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167840BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Integration File: autoint1.e
Quant Time: May 03 00:34:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Instrument :
FID_D
ClientSampleId :
PB167840BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD
Data File : FD049311.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 13:26
Sample : PB167840BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.532	4.509	4.575	VB	541876	4647787	56.72%	3.175%
2	6.076	6.040	6.145	BB	610298	5482829	66.92%	3.746%
3	7.131	7.075	7.188	BB	558242	5354996	65.36%	3.658%
4	7.742	7.708	7.790	BB	779446	7423816	90.60%	5.072%
5	8.411	8.345	8.463	BB	686134	6615897	80.74%	4.520%
6	8.608	8.557	8.650	BB	537147	5176330	63.17%	3.536%
7	8.708	8.657	8.740	BB	716016	7010260	85.56%	4.789%
8	9.489	9.428	9.523	BB	725132	7355155	89.77%	5.025%
9	10.890	10.858	10.927	VV	738999	7866617	96.01%	5.374%
10	10.965	10.927	11.012	VB	717771	7619007	92.99%	5.205%
11	11.654	11.593	11.702	BB	718392	7629284	93.11%	5.212%
12	12.706	12.666	12.752	VB	714885	8144987	99.41%	5.564%
13	13.004	12.923	13.030	BV	718518	8193681	100.00%	5.598%
14	14.875	14.793	14.894	PV	562337	7375259	90.01%	5.039%
15	14.920	14.894	14.973	VB	672223	7905755	96.49%	5.401%
16	16.428	16.358	16.442	BV	496308	7295841	89.04%	4.984%
17	16.463	16.442	16.490	VV	598769	7223286	88.16%	4.935%
18	16.809	16.743	16.842	BV	519573	6986144	85.26%	4.773%
19	18.176	18.110	18.190	BV	497114	7357310	89.79%	5.026%
20	18.214	18.190	18.263	VB	519727	6735475	82.20%	4.601%
21	18.434	18.370	18.497	BB	479391	6976907	85.15%	4.766%

Sum of corrected areas: 146376621

Aromatic EPH 050125.M Sat May 03 02:47:38 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068793.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 13:01
Operator : YP/AJ
Sample : PB167903BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167903BS

Integration File: autoint1.e
Quant Time: May 09 09:53:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.145	3505588	43.696 ug/ml
Spiked Amount	50.000		Recovery =	87.39%
	Target Compounds			
1) T	n-Nonane (C9)	3.442	2549322	25.346 ug/ml
2) T	n-Decane (C10)	4.518	3105498	31.167 ug/ml
4) T	n-Dodecane (C12)	6.543	3536486	36.392 ug/ml
6) T	n-Tetradecane (C14)	8.341	4025244	43.552 ug/ml
7) T	n-Hexadecane (C16)	9.944	4491009	50.154 ug/ml
8) T	n-Octadecane (C18)	11.388	4808139	54.814 ug/ml
10) T	n-Eicosane (C20)	12.699	5054034	59.307 ug/ml
11) T	n-Heneicosane (C21)	13.312	4875456	57.804 ug/ml
13) T	n-Docosane (C22)	13.899	4890977	58.464 ug/ml
14) T	n-Tetracosane (C24)	15.002	4855513	58.355 ug/ml
15) T	n-Hexacosane (C26)	16.025	4796571	57.892 ug/ml
16) T	n-Octacosane (C28)	16.975	4779183	57.827 ug/ml
17) T	n-Tricontane (C30)	17.865	4861309	57.454 ug/ml
18) T	n-Dotriacontane (C32)	18.698	4843353	56.229 ug/ml
19) T	n-Tetratriacontane (C34)	19.482	4766438	55.944 ug/ml
20) T	n-Hexatriacontane (C36)	20.223	4538759	52.808 ug/ml
21) T	n-Octatriacontane (C38)	20.997	4392982	52.370 ug/ml
22) T	n-Tetracontane (C40)	21.976	4192290	51.153 ug/ml

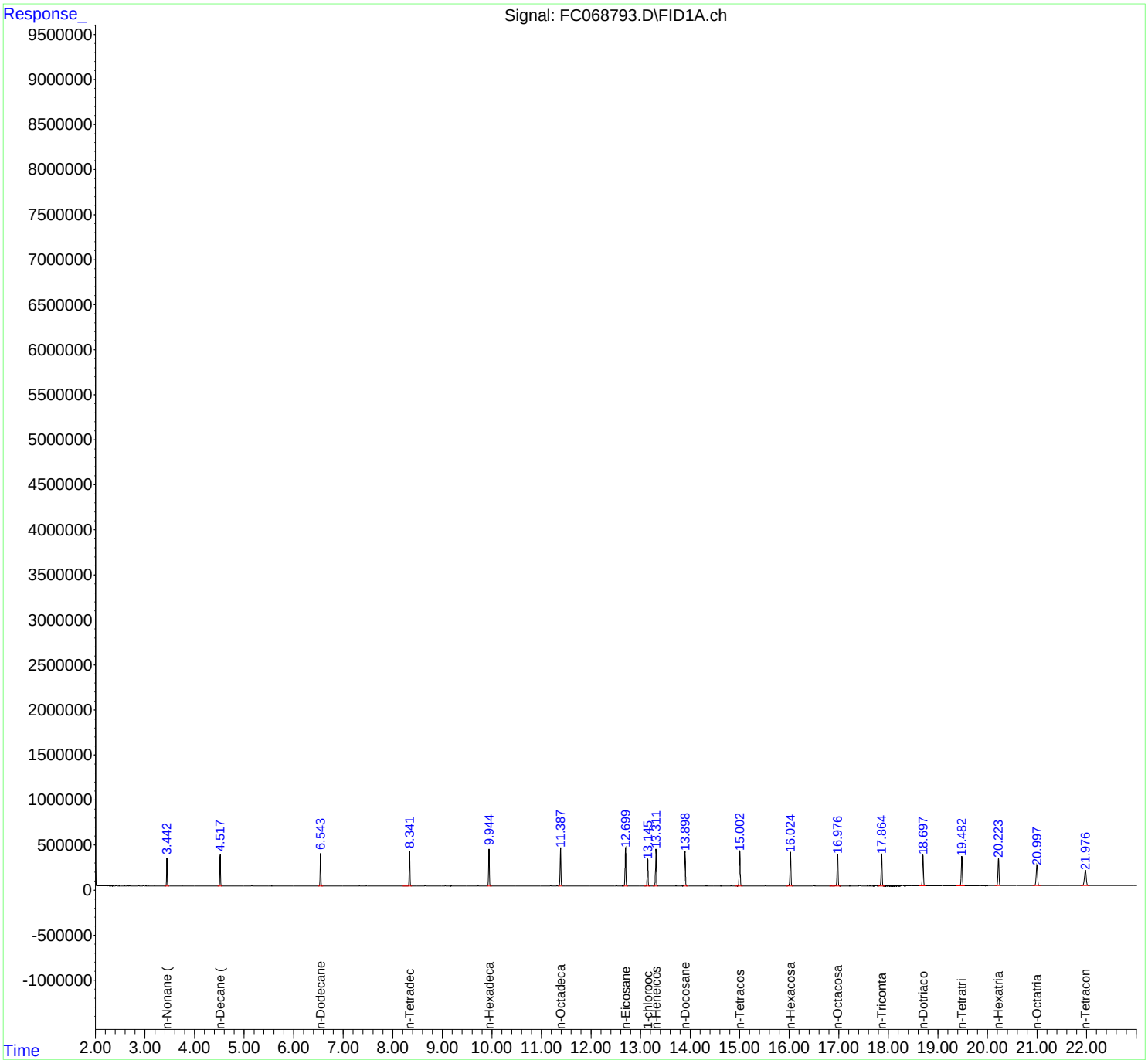
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068793.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 13:01
Operator : YP/AJ
Sample : PB167903BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167903BS

Integration File: autoint1.e
Quant Time: May 09 09:53:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068793.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 13:01
Sample : PB167903BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.442	3.392	3.485	BB	312183	2549322	50.44%	3.076%
2	4.518	4.464	4.552	BV	345727	3105498	61.45%	3.748%
3	6.543	6.487	6.592	BB	361573	3536486	69.97%	4.268%
4	8.341	8.199	8.387	BB	382447	4025244	79.64%	4.857%
5	9.944	9.897	9.995	BB	410982	4491009	88.86%	5.419%
6	11.388	11.340	11.419	BB	425025	4808139	95.13%	5.802%
7	12.699	12.660	12.747	PB	427156	5054034	100.00%	6.099%
8	13.145	13.074	13.189	BB	298893	3505588	69.36%	4.230%
9	13.312	13.250	13.350	BB	411023	4875456	96.47%	5.883%
10	13.899	13.862	13.950	VB	390119	4890977	96.77%	5.902%
11	15.002	14.902	15.062	BB	389261	4855513	96.07%	5.859%
12	16.025	15.934	16.082	BB	375239	4796571	94.91%	5.788%
13	16.975	16.809	17.052	BB	355725	4779183	94.56%	5.767%
14	17.865	17.797	17.927	BB	359525	4861309	96.19%	5.866%
15	18.698	18.622	18.747	BB	342087	4843353	95.83%	5.845%
16	19.482	19.364	19.537	BB	326984	4766438	94.31%	5.752%
17	20.223	20.150	20.262	BB	305027	4538759	89.80%	5.477%
18	20.997	20.912	21.080	BB	226109	4392982	86.92%	5.301%
19	21.976	21.879	22.060	BB	169936	4192290	82.95%	5.059%
			Sum of corrected areas:			82868151		

Aliphatic EPH 050625.M Fri May 09 09:57:12 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049320.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 13:01
Operator : YP/AJ
Sample : PB167903BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167903BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/09/2025
Supervised By :mohammad ahmed 05/12/2025

Integration File: autoint1.e
Quant Time: May 09 10:00:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.742	7300671	61.573 ug/ml
	Spiked Amount 50.000		Recovery = 123.15%	
6)	S 2-Flurobiphenyl (SURR)	8.608	5006396	63.394 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 126.79%	
11)	S ortho-Terphenyl (SURR)	11.652	7262675	52.620 ug/ml
	Spiked Amount 50.000		Recovery = 105.24%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.532	4653200	37.268 ug/ml
2)	T Naphthalene (C11.7)	6.076	5436927	41.125 ug/ml
3)	T 2-Methylnaphthalene (...	7.131	5271228	40.861 ug/ml
5)	T Acenaphthylene (C15.06)	8.411	6432919	45.570 ug/ml
7)	T Acenaphthene (C15.5)	8.708	6813172	49.726 ug/ml
8)	T Flouorene (C16.55)	9.489	7029682	51.645 ug/ml
9)	T Phenanthrene (C19.36)	10.888	7432716	55.130 ug/ml
10)	T Anthracene (C19.43)	10.964	7069170	59.772 ug/ml
12)	T Fluoranthene (C21.85)	12.703	7761429	57.592 ug/ml
13)	T Pyrene (C20.8)	13.002	7831116	57.890 ug/ml
14)	T Benzo[a]anthracene (C...	14.873	7009293	61.193 ug/ml
15)	T Chrysene (C27.41)	14.919	7558306	64.760 ug/ml
16)	T benzo[b]fluoranthene ...	16.426	7083541	58.355 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.462	6938447	58.177 ug/mlm
18)	T Benzo[a]pyrene (C31.34)	16.807	6738028	58.600 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.173	7007004	63.849 ug/ml
20)	T Dibenz[a,h]anthracene...	18.212	6302568	59.675 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.432	6691597	56.152 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FD049320.D**

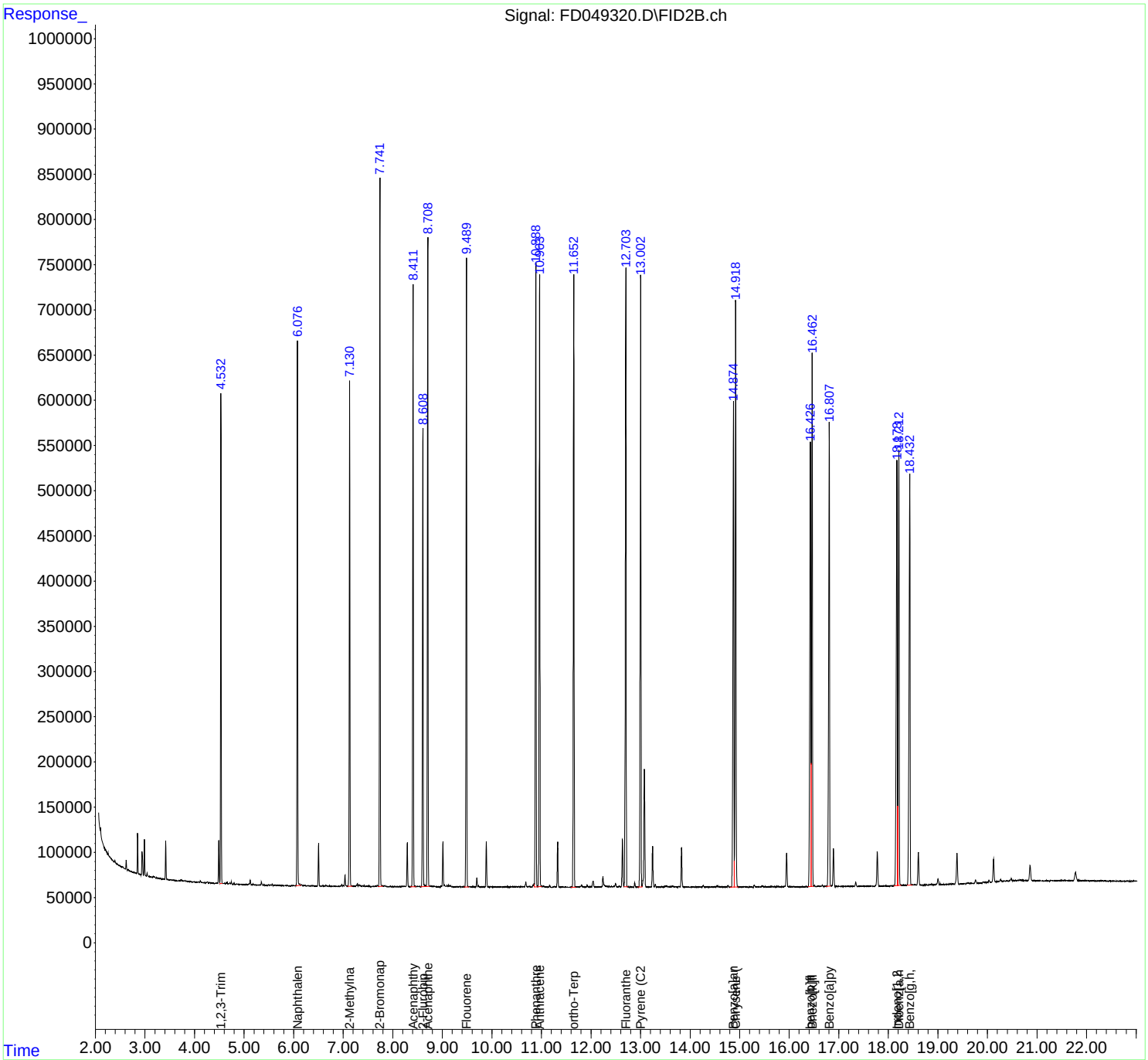
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049320.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 13:01
Operator : YP/AJ
Sample : PB167903BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167903BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/09/2025
Supervised By :mohammad ahmed 05/12/2025

Integration File: autoint1.e
Quant Time: May 09 10:00:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Instrument :
FID_D
ClientSampleId :
PB167903BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/09/2025
Supervised By :mohammad ahmed 05/12/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD05082
Data File : FD049320.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 13:01
Sample : PB167903BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.532	4.510	4.565	VB	542380	4653200	59.42%	3.308%
2	6.076	6.040	6.150	BB	602534	5436927	69.43%	3.865%
3	7.131	7.082	7.187	BB	558072	5271228	67.31%	3.747%
4	7.742	7.709	7.804	BB	784122	7300671	93.23%	5.190%
5	8.411	8.349	8.470	BB	664332	6432919	82.15%	4.573%
6	8.608	8.554	8.675	BV	508037	5006396	63.93%	3.559%
7	8.708	8.675	8.750	VB	716224	6813172	87.00%	4.843%
8	9.489	9.432	9.537	BB	694646	7029682	89.77%	4.997%
9	10.888	10.857	10.929	VV	690908	7432716	94.91%	5.283%
10	10.964	10.929	11.009	PB	677545	7069170	90.27%	5.025%
11	11.652	11.595	11.699	BB	676840	7262675	92.74%	5.163%
12	12.703	12.663	12.747	VB	685002	7761429	99.11%	5.517%
13	13.002	12.939	13.028	BV	674952	7831116	100.00%	5.567%
14	14.873	14.799	14.892	BV	537213	7009293	89.51%	4.983%
15	14.919	14.892	14.975	VB	649035	7558306	96.52%	5.373%
16	16.426	16.379	16.441	BV	486448	7083541	90.45%	5.035%
17	16.462	16.441	16.492	VV	589354	6986520	89.21%	4.966%
18	16.807	16.735	16.835	BB	513363	6738028	86.04%	4.790%
19	18.173	18.110	18.187	BV	470593	7007004	89.48%	4.981%
20	18.212	18.187	18.265	VB	479599	6302568	80.48%	4.480%
21	18.432	18.370	18.485	BB	455383	6691597	85.45%	4.757%
			Sum of corrected areas:			140678158		

Aromatic EPH 050125.M Fri May 09 10:05:50 2025

Quantitation Report (QT Reviewed)

Sample Results: **FC068745.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068745.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 14:03
Operator : YP/AJ
Sample : PB167840BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167840BSD

Integration File: sample.E
Quant Time: May 03 00:40:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.150	3593465	38.684 ug/ml
Spiked Amount	50.000		Recovery =	77.37%
	Target Compounds			
1) T	n-Nonane (C9)	3.444	2664664	25.300 ug/ml
2) T	n-Decane (C10)	4.520	3256140	30.905 ug/ml
4) T	n-Dodecane (C12)	6.546	3694008	35.126 ug/ml
6) T	n-Tetradecane (C14)	8.344	4176380	40.625 ug/ml
7) T	n-Hexadecane (C16)	9.948	4665713	45.814 ug/ml
8) T	n-Octadecane (C18)	11.391	4987279	49.559 ug/ml
10) T	n-Eicosane (C20)	12.704	5216792	53.038 ug/ml
11) T	n-Heneicosane (C21)	13.317	5011441	51.422 ug/ml
13) T	n-Docosane (C22)	13.903	5009971	51.866 ug/ml
14) T	n-Tetracosane (C24)	15.009	4949042	51.994 ug/ml
15) T	n-Hexacosane (C26)	16.030	4854519	51.973 ug/ml
16) T	n-Octacosane (C28)	16.981	4866637	53.154 ug/ml
17) T	n-Tricontane (C30)	17.871	4965921	54.017 ug/ml
18) T	n-Dotriacontane (C32)	18.705	4965135	54.129 ug/ml
19) T	n-Tetratriacontane (C34)	19.490	4904730	54.900 ug/ml
20) T	n-Hexatriacontane (C36)	20.232	4698493	52.451 ug/ml
21) T	n-Octatriacontane (C38)	21.007	4599951	52.028 ug/ml
22) T	n-Tetracontane (C40)	21.986	4508416	51.054 ug/ml

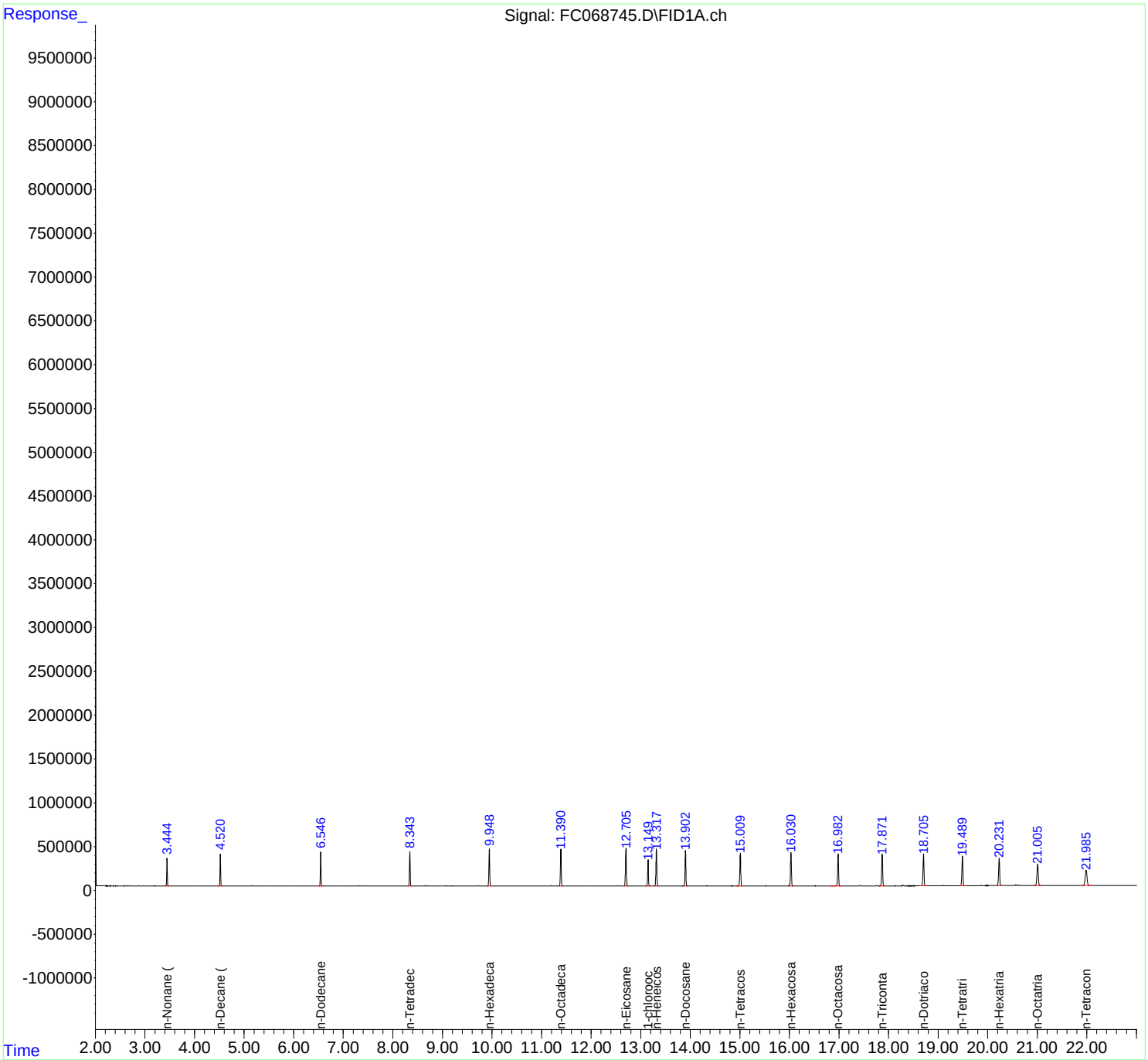
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068745.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 14:03
Operator : YP/AJ
Sample : PB167840BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167840BSD

Integration File: sample.E
Quant Time: May 03 00:40:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068745.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 14:03
Sample : PB167840BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.444	3.395	3.483	BB	317770	2664664	51.08%	3.113%
2	4.520	4.465	4.555	BV	366710	3256140	62.42%	3.804%
3	6.546	6.492	6.592	BB	386734	3694008	70.81%	4.316%
4	8.344	8.287	8.383	BB	392991	4176380	80.06%	4.880%
5	9.948	9.900	9.985	BB	419293	4665713	89.44%	5.451%
6	11.391	11.355	11.427	BB	422322	4987279	95.60%	5.827%
7	12.704	12.663	12.748	PB	423030	5216792	100.00%	6.095%
8	13.150	13.092	13.183	BB	300740	3593465	68.88%	4.199%
9	13.317	13.255	13.362	BB	413720	5011441	96.06%	5.855%
10	13.903	13.867	13.940	VB	405025	5009971	96.04%	5.854%
11	15.009	14.917	15.050	BB	376627	4949042	94.87%	5.782%
12	16.030	15.990	16.092	BB	379894	4854519	93.06%	5.672%
13	16.981	16.818	17.045	BB	369300	4866637	93.29%	5.686%
14	17.871	17.805	17.922	BB	359482	4965921	95.19%	5.802%
15	18.705	18.628	18.768	BB	367944	4965135	95.18%	5.801%
16	19.490	19.440	19.547	BB	338410	4904730	94.02%	5.731%
17	20.232	20.180	20.270	BB	313714	4698493	90.06%	5.490%
18	21.007	20.925	21.087	BB	240227	4599951	88.18%	5.374%
19	21.986	21.893	22.087	BB	175457	4508416	86.42%	5.268%
			Sum of corrected areas:			85588696		

Aliphatic EPH 040925.M Sat May 03 03:29:04 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049312.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049312.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 14:03
Operator : YP/AJ
Sample : PB167840BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167840BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Integration File: autoint1.e
Quant Time: May 03 00:34:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.742	7685443	64.818 ug/ml
	Spiked Amount 50.000		Recovery = 129.64%	
6)	S 2-Flurobiphenyl (SURR)	8.608	5373602	68.044 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 136.09%#	
11)	S ortho-Terphenyl (SURR)	11.653	7914730	57.345 ug/ml
	Spiked Amount 50.000		Recovery = 114.69%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.532	4816213	38.574 ug/ml
2)	T Naphthalene (C11.7)	6.076	5686388	43.012 ug/ml
3)	T 2-Methylnaphthalene (...	7.131	5542370	42.963 ug/ml
5)	T Acenaphthylene (C15.06)	8.411	6847445	48.507 ug/ml
7)	T Acenaphthene (C15.5)	8.708	7245753	52.884 ug/ml
8)	T Flouorene (C16.55)	9.489	7626291	56.028 ug/ml
9)	T Phenanthrene (C19.36)	10.889	8205734	60.863 ug/ml
10)	T Anthracene (C19.43)	10.965	8007053	67.702 ug/ml
12)	T Fluoranthene (C21.85)	12.705	8528804	63.286 ug/ml
13)	T Pyrene (C20.8)	13.005	8580870	63.433 ug/ml
14)	T Benzo[a]anthracene (C...	14.876	7790539	68.013 ug/ml
15)	T Chrysene (C27.41)	14.922	8344622	71.497 ug/ml
16)	T benzo[b]fluoranthene ...	16.429	7669576	63.183 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.465	7644071	64.094 ug/mlm
18)	T Benzo[a]pyrene (C31.34)	16.809	7349729	63.920 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.177	7708525	70.241 ug/ml
20)	T Dibenz[a,h]anthracene...	18.215	7102723	67.251 ug/mlm
21)	T Benzo[g,h,i]perylene ...	18.435	7302115	61.275 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FD049312.D**

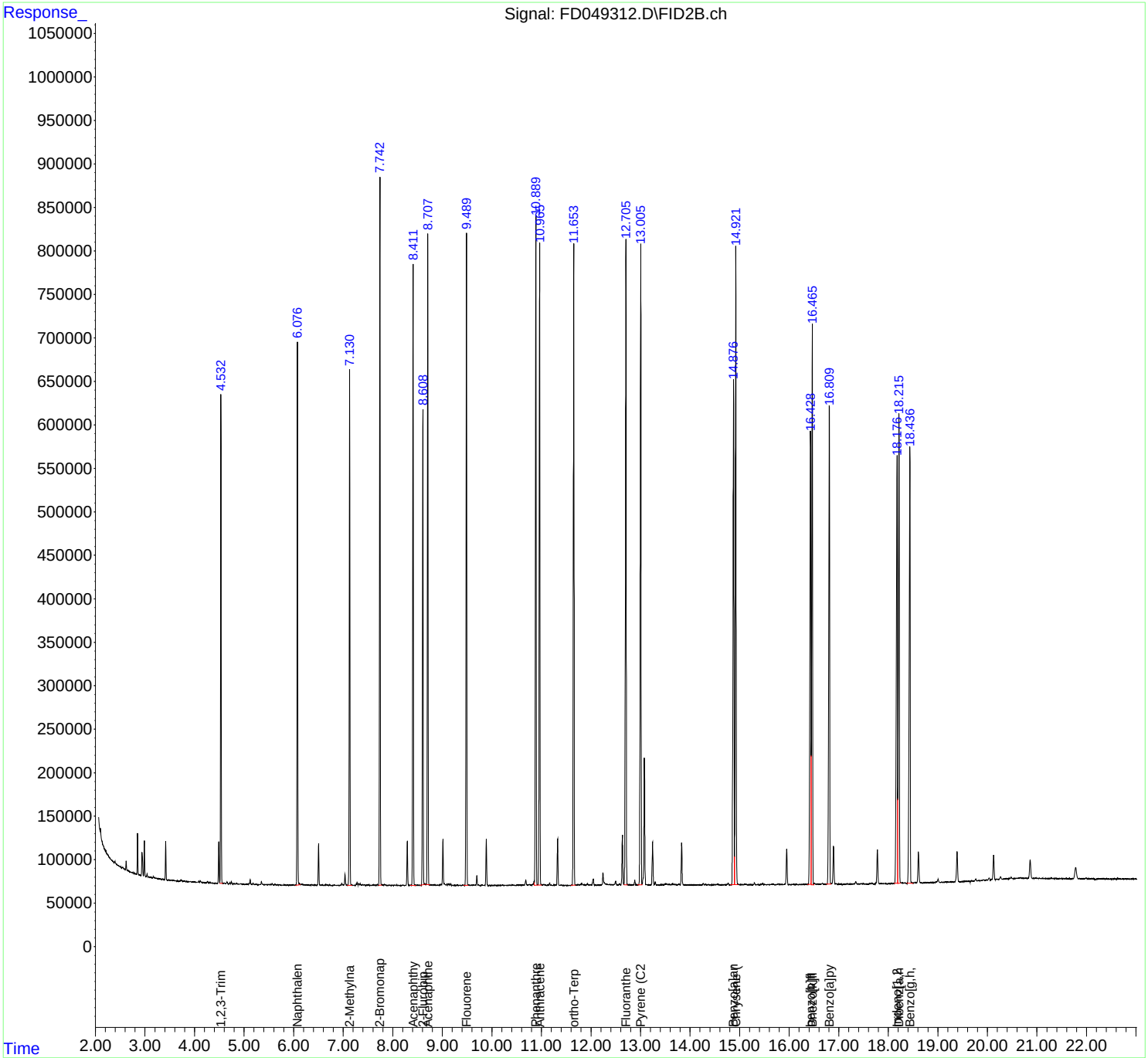
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050225AR\
Data File : FD049312.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 14:03
Operator : YP/AJ
Sample : PB167840BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167840BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Integration File: autoint1.e
Quant Time: May 03 00:34:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Instrument :
FID_D
ClientSampleId :
PB167840BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD
Data File : FD049312.D
Signal(s) : FID2B.ch
Acq On : 02 May 2025 14:03
Sample : PB167840BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.532	4.509	4.572	VB	562011	4816213	56.13%	3.150%
2	6.076	6.040	6.142	BB	623673	5686388	66.27%	3.719%
3	7.131	7.077	7.183	BB	590776	5542370	64.59%	3.625%
4	7.742	7.710	7.783	BB	812593	7685443	89.56%	5.026%
5	8.411	8.350	8.467	BB	714716	6847445	79.80%	4.478%
6	8.608	8.552	8.657	BB	546538	5373602	62.62%	3.514%
7	8.708	8.658	8.747	BB	749215	7245753	84.44%	4.739%
8	9.489	9.428	9.522	BB	749265	7626291	88.88%	4.988%
9	10.889	10.857	10.923	VV	772310	8205734	95.63%	5.367%
10	10.965	10.923	11.012	VB	738683	8007053	93.31%	5.237%
11	11.653	11.592	11.695	BB	738593	7914730	92.24%	5.176%
12	12.705	12.663	12.740	VB	741721	8528804	99.39%	5.578%
13	13.005	12.937	13.028	BV	737054	8580870	100.00%	5.612%
14	14.876	14.805	14.895	BV	581118	7790539	90.79%	5.095%
15	14.922	14.895	14.970	VB	734845	8344622	97.25%	5.458%
16	16.429	16.363	16.444	BV	520928	7669576	89.38%	5.016%
17	16.465	16.444	16.488	VV	645108	7597319	88.54%	4.969%
18	16.809	16.740	16.840	BV	551558	7349729	85.65%	4.807%
19	18.177	18.110	18.191	BV	492069	7708525	89.83%	5.042%
20	18.215	18.191	18.277	VB	539032	7075686	82.46%	4.628%
21	18.435	18.370	18.497	BV	502369	7302115	85.10%	4.776%

Sum of corrected areas: 152898808

Aromatic EPH 050125.M Sat May 03 02:48:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068794.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 13:38
Operator : YP/AJ
Sample : PB167903BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167903BSD

Integration File: autoint1.e
Quant Time: May 09 09:53:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.145	3590079	44.750 ug/ml
Spiked Amount	50.000		Recovery =	89.50%
	Target Compounds			
1) T	n-Nonane (C9)	3.443	2647696	26.324 ug/ml
2) T	n-Decane (C10)	4.518	3237196	32.488 ug/ml
4) T	n-Dodecane (C12)	6.543	3691655	37.989 ug/ml
6) T	n-Tetradecane (C14)	8.341	4194991	45.388 ug/ml
7) T	n-Hexadecane (C16)	9.945	4692854	52.408 ug/ml
8) T	n-Octadecane (C18)	11.388	5017128	57.196 ug/ml
10) T	n-Eicosane (C20)	12.699	5259189	61.714 ug/ml
11) T	n-Heneicosane (C21)	13.311	5057612	59.963 ug/ml
13) T	n-Docosane (C22)	13.898	5061922	60.507 ug/ml
14) T	n-Tetracosane (C24)	15.002	4996084	60.044 ug/ml
15) T	n-Hexacosane (C26)	16.024	4919234	59.373 ug/ml
16) T	n-Octacosane (C28)	16.976	4878813	59.033 ug/ml
17) T	n-Tricontane (C30)	17.863	4961087	58.633 ug/ml
18) T	n-Dotriacontane (C32)	18.697	4939966	57.351 ug/ml
19) T	n-Tetratriacontane (C34)	19.482	4864425	57.094 ug/ml
20) T	n-Hexatriacontane (C36)	20.224	4652516	54.131 ug/ml
21) T	n-Octatriacontane (C38)	20.998	4530376	54.008 ug/ml
22) T	n-Tetracontane (C40)	21.977	4388059	53.542 ug/ml

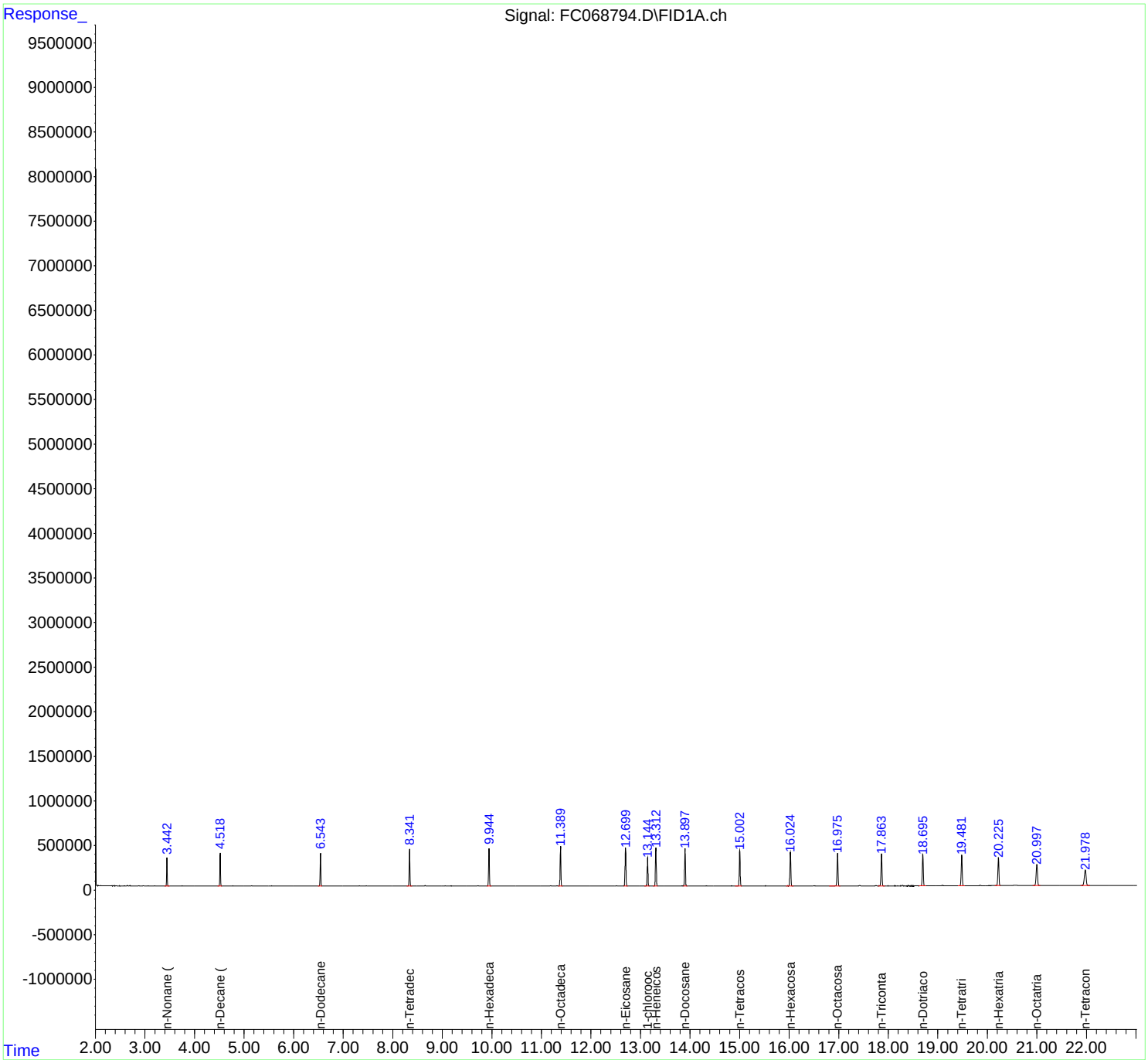
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068794.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 13:38
Operator : YP/AJ
Sample : PB167903BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167903BSD

Integration File: autoint1.e
Quant Time: May 09 09:53:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068794.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 13:38
Sample : PB167903BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.443	3.392	3.498	BB	318073	2647696	50.34%	3.094%
2	4.518	4.463	4.553	BV	370990	3237196	61.55%	3.783%
3	6.543	6.488	6.577	BB	370695	3691655	70.19%	4.314%
4	8.341	8.282	8.392	BB	412976	4194991	79.76%	4.902%
5	9.945	9.897	9.993	BB	419549	4692854	89.23%	5.484%
6	11.388	11.340	11.428	BB	444647	5017128	95.40%	5.862%
7	12.699	12.662	12.743	PB	428781	5259189	100.00%	6.145%
8	13.145	13.073	13.182	BB	319605	3590079	68.26%	4.195%
9	13.311	13.252	13.347	BB	430450	5057612	96.17%	5.910%
10	13.898	13.860	13.943	VB	420424	5061922	96.25%	5.915%
11	15.002	14.908	15.045	BB	401676	4996084	95.00%	5.838%
12	16.024	15.933	16.087	BB	376136	4919234	93.54%	5.748%
13	16.976	16.807	17.033	BB	365410	4878813	92.77%	5.701%
14	17.863	17.797	17.930	BB	360231	4961087	94.33%	5.797%
15	18.697	18.617	18.760	BB	350476	4939966	93.93%	5.772%
16	19.482	19.405	19.542	BB	343392	4864425	92.49%	5.684%
17	20.224	20.150	20.267	BB	312716	4652516	88.46%	5.436%
18	20.998	20.913	21.067	BB	236854	4530376	86.14%	5.294%
19	21.977	21.882	22.072	BB	173441	4388059	83.44%	5.127%

Sum of corrected areas: 85580880

Aliphatic EPH 050625.M Fri May 09 09:57:44 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049321.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049321.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 13:38
Operator : YP/AJ
Sample : PB167903BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167903BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/09/2025
Supervised By :mohammad ahmed 05/12/2025

Integration File: autoint1.e
Quant Time: May 09 10:00:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.742	7630584	64.355 ug/ml
	Spiked Amount 50.000		Recovery = 128.71%	
6)	S 2-Flurobiphenyl (SURR)	8.609	5211926	65.997 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 131.99%#	
11)	S ortho-Terphenyl (SURR)	11.653	7520284	54.487 ug/ml
	Spiked Amount 50.000		Recovery = 108.97%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.532	4868583	38.993 ug/ml
2)	T Naphthalene (C11.7)	6.076	5684283	42.996 ug/ml
3)	T 2-Methylnaphthalene (...	7.131	5511990	42.728 ug/ml
5)	T Acenaphthylene (C15.06)	8.411	6708573	47.523 ug/ml
7)	T Acenaphthene (C15.5)	8.709	7095143	51.784 ug/ml
8)	T Flouorene (C16.55)	9.489	7350269	54.000 ug/ml
9)	T Phenanthrene (C19.36)	10.889	7743726	57.437 ug/ml
10)	T Anthracene (C19.43)	10.964	7447842	62.974 ug/ml
12)	T Fluoranthene (C21.85)	12.704	7999797	59.361 ug/ml
13)	T Pyrene (C20.8)	13.003	8056891	59.559 ug/ml
14)	T Benzo[a]anthracene (C...	14.874	7291465	63.656 ug/ml
15)	T Chrysene (C27.41)	14.920	7835154	67.132 ug/ml
16)	T benzo[b]fluoranthene ...	16.427	7351712	60.565 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.462	7266682	60.930 ug/mlm
18)	T Benzo[a]pyrene (C31.34)	16.808	7006479	60.934 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.175	7393154	67.368 ug/ml
20)	T Dibenz[a,h]anthracene...	18.214	6726835	63.692 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.433	6994367	58.692 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FD049321.D**

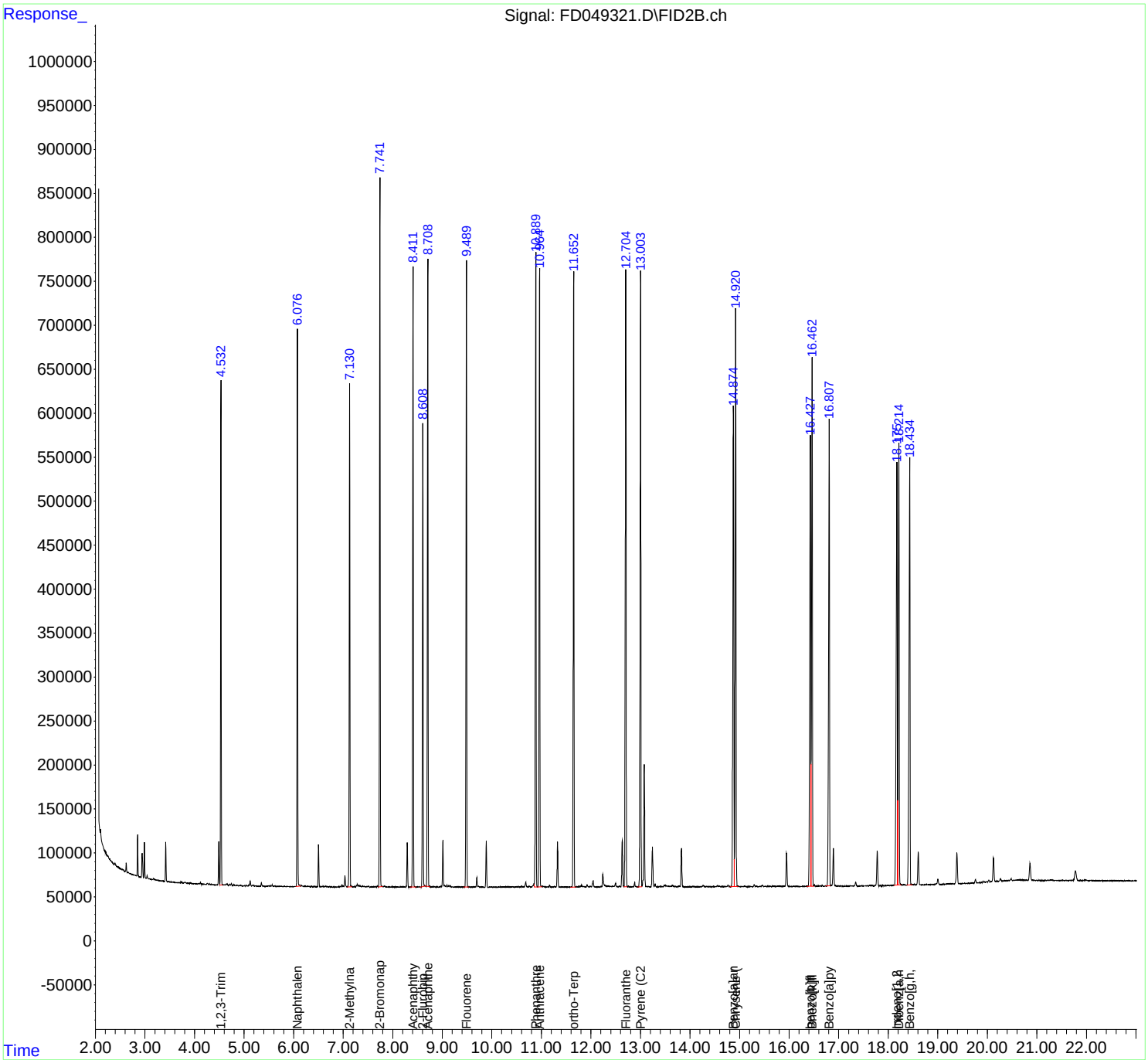
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049321.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 13:38
Operator : YP/AJ
Sample : PB167903BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167903BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/09/2025
Supervised By :mohammad ahmed 05/12/2025

Integration File: autoint1.e
Quant Time: May 09 10:00:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Instrument :
FID_D
ClientSampleId :
PB167903BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/09/2025
Supervised By :mohammad ahmed 05/12/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD05082
Data File : FD049321.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 13:38
Sample : PB167903BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.532	4.510	4.572	VB	573296	4868583	60.43%	3.319%
2	6.076	6.040	6.147	BB	633731	5684283	70.55%	3.875%
3	7.131	7.082	7.178	BB	573249	5511990	68.41%	3.758%
4	7.742	7.708	7.795	BB	807128	7630584	94.71%	5.202%
5	8.411	8.345	8.468	BB	707501	6708573	83.27%	4.574%
6	8.609	8.552	8.662	BB	526862	5211926	64.69%	3.553%
7	8.709	8.662	8.747	BB	713781	7095143	88.06%	4.837%
8	9.489	9.432	9.535	BB	708712	7350269	91.23%	5.011%
9	10.889	10.857	10.925	VV	719886	7743726	96.11%	5.279%
10	10.964	10.925	11.013	PB	703035	7447842	92.44%	5.078%
11	11.653	11.583	11.697	BB	699428	7520284	93.34%	5.127%
12	12.704	12.660	12.733	VV	697832	7999797	99.29%	5.454%
13	13.003	12.938	13.028	BV	703865	8056891	100.00%	5.493%
14	14.874	14.808	14.893	BV	546529	7291465	90.50%	4.971%
15	14.920	14.893	14.970	VB	656987	7835154	97.25%	5.342%
16	16.427	16.357	16.442	BV	512325	7351712	91.25%	5.012%
17	16.463	16.442	16.490	VV	601548	7247365	89.95%	4.941%
18	16.808	16.735	16.834	BB	529859	7006479	86.96%	4.777%
19	18.175	18.110	18.189	BV	481844	7393154	91.76%	5.040%
20	18.214	18.189	18.265	VB	499331	6726835	83.49%	4.586%
21	18.433	18.370	18.488	BB	486053	6994367	86.81%	4.769%
			Sum of corrected areas:			146676421		

Aromatic EPH 050125.M Fri May 09 10:07:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068804.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 21:04
Operator : YP/AJ
Sample : Q1901-04MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB02MS

Integration File: autoint1.e
Quant Time: May 09 09:09:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.143	2776379	34.607 ug/ml
Spiked Amount	50.000		Recovery =	69.21%
	Target Compounds			
1) T	n-Nonane (C9)	3.442	1999885	19.883 ug/ml
2) T	n-Decane (C10)	4.517	2502691	25.117 ug/ml
4) T	n-Dodecane (C12)	6.543	2907225	29.917 ug/ml
6) T	n-Tetradecane (C14)	8.340	3201915	34.643 ug/ml
7) T	n-Hexadecane (C16)	9.943	3341592	37.318 ug/ml
8) T	n-Octadecane (C18)	11.386	3386639	38.608 ug/ml
10) T	n-Eicosane (C20)	12.697	3458165	40.580 ug/ml
11) T	n-Heneicosane (C21)	13.310	3300762	39.134 ug/ml
13) T	n-Docosane (C22)	13.896	3287092	39.292 ug/ml
14) T	n-Tetracosane (C24)	15.000	3238083	38.916 ug/ml
15) T	n-Hexacosane (C26)	16.022	3181156	38.395 ug/ml
16) T	n-Octacosane (C28)	16.972	3138886	37.980 ug/ml
17) T	n-Tricontane (C30)	17.862	3171460	37.482 ug/ml
18) T	n-Dotriacontane (C32)	18.696	3133769	36.382 ug/ml
19) T	n-Tetratriacontane (C34)	19.479	3070454	36.038 ug/ml
20) T	n-Hexatriacontane (C36)	20.219	2910154	33.859 ug/ml
21) T	n-Octatriacontane (C38)	20.993	2794773	33.317 ug/ml
22) T	n-Tetracontane (C40)	21.968	2662824	32.491 ug/ml

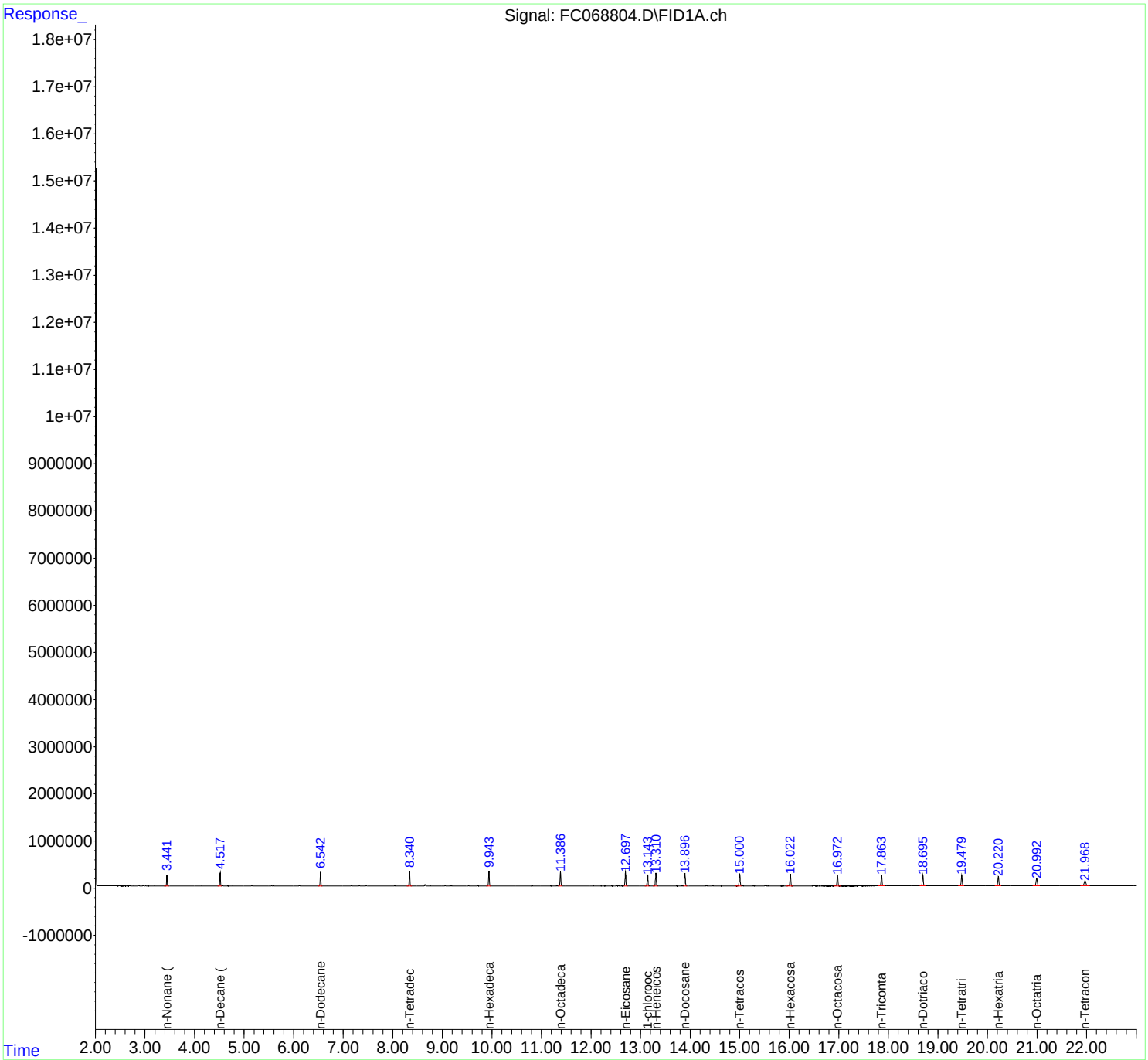
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068804.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 21:04
Operator : YP/AJ
Sample : Q1901-04MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB02MS

Integration File: autoint1.e
Quant Time: May 09 09:09:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068804.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 21:04
Sample : Q1901-04MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.442	3.388	3.483	BB	240793	1999885	57.83%	3.451%
2	4.517	4.463	4.544	BV	283795	2502691	72.37%	4.318%
3	4.563	4.544	4.583	VB	11447	97302	2.81%	0.168%
4	6.115	6.067	6.138	BB	5717	53293	1.54%	0.092%
5	6.543	6.490	6.580	BB	295351	2907225	84.07%	5.016%
6	8.340	8.278	8.385	BB	312956	3201915	92.59%	5.525%
7	8.653	8.515	8.702	BB	28819	289165	8.36%	0.499%
8	9.943	9.885	9.982	BB	309101	3341592	96.63%	5.766%
9	11.386	11.340	11.422	BB	301037	3386639	97.93%	5.843%
10	12.697	12.663	12.740	BB	296462	3458165	100.00%	5.967%
11	13.143	13.083	13.175	BB	235951	2776379	80.28%	4.790%
12	13.310	13.248	13.350	BB	277244	3300762	95.45%	5.695%
13	13.896	13.860	13.938	PB	264720	3287092	95.05%	5.672%
14	15.000	14.912	15.035	BV	254430	3238083	93.64%	5.587%
15	16.022	15.932	16.075	BB	254057	3181156	91.99%	5.489%
16	16.972	16.888	17.038	BB	236460	3138886	90.77%	5.416%
17	17.422	17.372	17.467	BB	4066	53475	1.55%	0.092%
18	17.862	17.790	17.923	BB	235777	3171460	91.71%	5.472%
19	18.696	18.630	18.752	BB	230557	3133769	90.62%	5.407%
20	19.479	19.408	19.528	BB	227164	3070454	88.79%	5.298%
21	20.219	20.150	20.280	BB	201193	2910154	84.15%	5.021%
22	20.993	20.910	21.055	BB	148380	2794773	80.82%	4.822%
23	21.968	21.872	22.063	BB	106891	2662824	77.00%	4.594%
			Sum of corrected areas:			57957138		

Aliphatic EPH 050625.M Fri May 09 09:38:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049330.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 20:25
Operator : YP/AJ
Sample : Q1901-04MS
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB02MS

Integration File: autoint1.e
Quant Time: May 09 09:21:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.741	7098283	59.866 ug/ml
	Spiked Amount 50.000		Recovery = 119.73%	
6)	S 2-Flurobiphenyl (SURR)	8.607	4554552	57.673 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 115.35%	
11)	S ortho-Terphenyl (SURR)	11.651	5318512	38.534 ug/ml
	Spiked Amount 50.000		Recovery = 77.07%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.531	3923162	31.421 ug/ml
2)	T Naphthalene (C11.7)	6.076	4775935	36.125 ug/ml
3)	T 2-Methylnaphthalene (...	7.130	4775309	37.017 ug/ml
5)	T Acenaphthylene (C15.06)	8.410	5798065	41.073 ug/ml
7)	T Acenaphthene (C15.5)	8.707	5874209	42.873 ug/ml
8)	T Flouorene (C16.55)	9.488	6193540	45.502 ug/ml
9)	T Phenanthrene (C19.36)	10.887	6216675	46.110 ug/ml
10)	T Anthracene (C19.43)	10.961	6051842	51.170 ug/ml
12)	T Fluoranthene (C21.85)	12.702	6246701	46.353 ug/ml
13)	T Pyrene (C20.8)	13.000	6082375	44.963 ug/ml
14)	T Benzo[a]anthracene (C...	14.871	5537474	48.343 ug/ml
15)	T Chrysene (C27.41)	14.916	5818279	49.851 ug/ml
16)	T benzo[b]fluoranthene ...	16.423	5484249	45.180 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.457	5331675	44.705 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.802	5167669	44.943 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.169	5564063	50.701 ug/ml
20)	T Dibenz[a,h]anthracene...	18.207	4910368	46.493 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.427	5200377	43.638 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

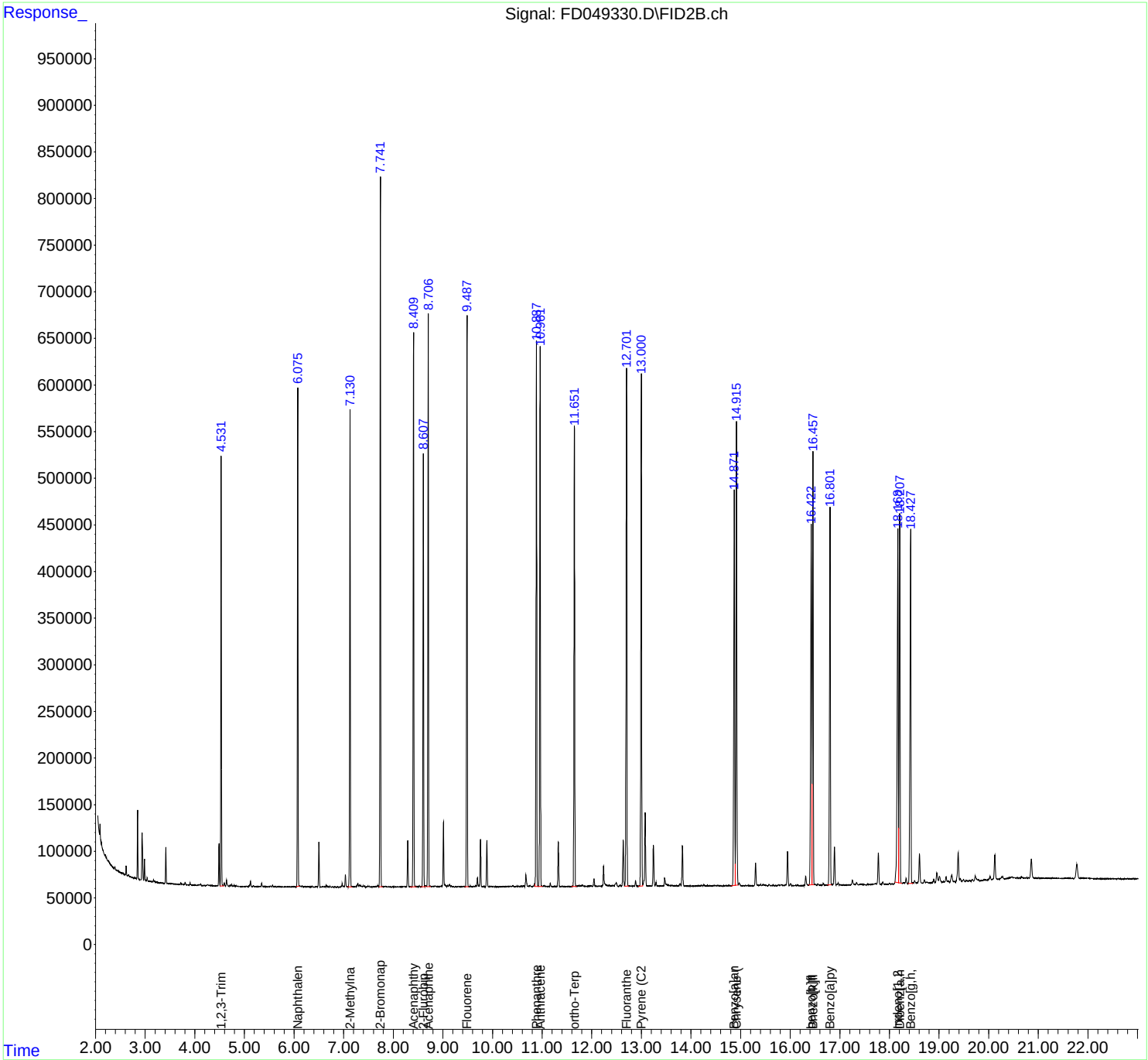
Sample Results: **FD049330.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049330.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 20:25
Operator : YP/AJ
Sample : Q1901-04MS
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB02MS

Integration File: autoint1.e
Quant Time: May 09 09:21:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049330.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 20:25
Sample : Q1901-04MS
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.266	4.252	4.289	BV	730	5895	0.08%	0.005%
2	4.306	4.289	4.325	PV	598	7343	0.10%	0.006%
3	4.330	4.325	4.356	VV	376	4189	0.06%	0.003%
4	4.361	4.356	4.370	VV	259	1108	0.02%	0.001%
5	4.384	4.370	4.409	PV	269	3287	0.05%	0.003%
6	4.414	4.409	4.430	VV	217	1846	0.03%	0.001%
7	4.445	4.430	4.464	VV	444	5523	0.08%	0.004%
8	4.488	4.464	4.509	VV	45759	407008	5.71%	0.312%
9	4.531	4.509	4.557	VV	461843	3920109	55.01%	3.001%
10	4.564	4.557	4.577	VV	1306	13116	0.18%	0.010%
11	4.595	4.577	4.624	VV	3795	43141	0.61%	0.033%
12	4.640	4.624	4.679	VV	6869	81717	1.15%	0.063%
13	4.691	4.679	4.698	VV	375	3135	0.04%	0.002%
14	4.712	4.698	4.726	VV	1530	14641	0.21%	0.011%
15	4.743	4.726	4.770	VV	2611	25358	0.36%	0.019%
16	4.795	4.770	4.810	VV	1239	12765	0.18%	0.010%
17	4.832	4.810	4.850	VV	952	10748	0.15%	0.008%
18	4.855	4.850	4.896	VV	430	5825	0.08%	0.004%
19	4.901	4.896	4.912	VV	227	1065	0.01%	0.001%
20	4.935	4.912	4.964	PV	471	6586	0.09%	0.005%
21	4.983	4.974	4.992	VV	307	1806	0.03%	0.001%
22	5.014	5.008	5.028	PV	168	1216	0.02%	0.001%
23	5.040	5.028	5.049	PV	424	2889	0.04%	0.002%
24	5.052	5.049	5.056	VV	394	1320	0.02%	0.001%
25	5.059	5.056	5.080	VV	415	2532	0.04%	0.002%
26	5.098	5.080	5.107	VV	1201	10025	0.14%	0.008%
27	5.123	5.107	5.162	VV	6212	66734	0.94%	0.051%
28	5.180	5.162	5.205	VV	1368	15764	0.22%	0.012%
29	5.213	5.205	5.219	VV	336	1873	0.03%	0.001%
30	5.236	5.219	5.280	VV	532	9723	0.14%	0.007%
31	5.290	5.280	5.295	PV	254	1188	0.02%	0.001%
32	5.315	5.295	5.328	VV	548	7036	0.10%	0.005%
33	5.347	5.328	5.390	VV	3980	45148	0.63%	0.035%
34	5.400	5.390	5.418	VV	261	2789	0.04%	0.002%
35	5.423	5.418	5.477	VV	254	5274	0.07%	0.004%
36	5.487	5.477	5.502	VV	462	5001	0.07%	0.004%

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37	5.525	5.502	5.549	VV	919	10857	0.15%	0.008%
38	5.566	5.549	5.594	VV	1997	20402	0.29%	0.016%
39	5.622	5.594	5.637	VV	693	8437	0.12%	0.006%
40	5.643	5.637	5.664	VV	214	2447	0.03%	0.002%
41	5.685	5.673	5.698	VV	323	3740	0.05%	0.003%
42	5.706	5.698	5.714	VV	352	2156	0.03%	0.002%
43	5.717	5.714	5.739	VV	280	1733	0.02%	0.001%
44	5.771	5.749	5.784	VV	276	3576	0.05%	0.003%
45	5.817	5.802	5.842	VV	284	2541	0.04%	0.002%
46	5.874	5.859	5.880	VV	266	2341	0.03%	0.002%
47	5.901	5.880	5.924	VV	354	5557	0.08%	0.004%
48	5.928	5.924	5.950	VV	204	2422	0.03%	0.002%
49	5.956	5.950	5.967	VV	244	1624	0.02%	0.001%
50	5.986	5.967	6.003	VV	513	5640	0.08%	0.004%
51	6.017	6.003	6.035	VV	350	4054	0.06%	0.003%
52	6.076	6.035	6.111	VV	535249	4804872	67.43%	3.678%
53	6.118	6.111	6.143	VV	1497	20153	0.28%	0.015%
54	6.162	6.143	6.192	VV	1485	20757	0.29%	0.016%
55	6.222	6.192	6.245	VV	1006	16454	0.23%	0.013%
56	6.249	6.245	6.265	VV	345	4188	0.06%	0.003%
57	6.269	6.265	6.275	VV	332	1764	0.02%	0.001%
58	6.295	6.275	6.323	VV	616	10137	0.14%	0.008%
59	6.359	6.323	6.410	VV	900	15550	0.22%	0.012%
60	6.438	6.410	6.444	PV	301	3889	0.05%	0.003%
61	6.449	6.444	6.460	VV	380	2455	0.03%	0.002%
62	6.465	6.460	6.477	VV	296	1935	0.03%	0.001%
63	6.502	6.477	6.531	VV	48425	464933	6.52%	0.356%
64	6.547	6.531	6.554	VV	388	2872	0.04%	0.002%
65	6.587	6.554	6.609	VV	931	12304	0.17%	0.009%
66	6.622	6.609	6.639	VV	756	7562	0.11%	0.006%
67	6.652	6.639	6.672	VV	1658	16805	0.24%	0.013%
68	6.686	6.672	6.708	VV	565	5809	0.08%	0.004%
69	6.725	6.708	6.749	VV	1038	11061	0.16%	0.008%
70	6.771	6.749	6.787	VV	416	3936	0.06%	0.003%
71	6.795	6.787	6.825	VV	403	5471	0.08%	0.004%
72	6.832	6.825	6.855	VV	345	3092	0.04%	0.002%
73	6.877	6.855	6.900	VV	380	5615	0.08%	0.004%
74	6.909	6.900	6.922	VV	300	2832	0.04%	0.002%
75	6.945	6.922	6.956	VV	1100	11445	0.16%	0.009%
76	6.971	6.956	6.986	VV	4087	37429	0.53%	0.029%
77	6.997	6.986	7.014	VV	1339	15820	0.22%	0.012%
78	7.036	7.014	7.093	VV	13525	148540	2.08%	0.114%
79	7.130	7.093	7.174	VV	513331	4790408	67.23%	3.667%
80	7.180	7.174	7.185	VV	403	2215	0.03%	0.002%
81	7.195	7.185	7.202	VV	478	3580	0.05%	0.003%
82	7.205	7.202	7.215	VV	513	2984	0.04%	0.002%
83	7.232	7.215	7.252	VV	694	9382	0.13%	0.007%
84	7.286	7.252	7.303	VV	4209	61252	0.86%	0.047%
85	7.319	7.303	7.334	VV	2687	33219	0.47%	0.025%
86	7.345	7.334	7.382	VV	1852	27917	0.39%	0.021%
87	7.394	7.382	7.408	VV	1640	17084	0.24%	0.013%
88	7.422	7.408	7.444	VV	1441	16429	0.23%	0.013%
89	7.464	7.444	7.469	PV	553	4505	0.06%	0.003%

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90	7.473	7.469	7.476	VV	491	2101	0.03%	0.002%
91	7.490	7.476	7.505	VV	1061	13177	0.18%	0.010%
92	7.516	7.505	7.546	VV	1207	15069	0.21%	0.012%
93	7.552	7.546	7.567	VV	373	3204	0.04%	0.002%
94	7.601	7.567	7.622	VV	857	12460	0.17%	0.010%
95	7.643	7.622	7.648	VV	630	6807	0.10%	0.005%
96	7.663	7.648	7.670	VV	646	7173	0.10%	0.005%
97	7.687	7.670	7.710	VV	1788	23807	0.33%	0.018%
98	7.741	7.710	7.809	VV	762683	7125582	100.00%	5.454%
99	7.834	7.809	7.874	VV	1106	24002	0.34%	0.018%
100	7.878	7.874	7.884	VV	371	1612	0.02%	0.001%
101	7.909	7.884	7.930	VV	644	8182	0.11%	0.006%
102	7.944	7.930	7.975	VV	350	4029	0.06%	0.003%
103	7.991	7.975	8.033	PV	828	11717	0.16%	0.009%
104	8.045	8.033	8.068	VV	370	4742	0.07%	0.004%
105	8.078	8.068	8.112	VV	452	6984	0.10%	0.005%
106	8.117	8.112	8.127	VV	372	2160	0.03%	0.002%
107	8.139	8.127	8.160	VV	412	5908	0.08%	0.005%
108	8.196	8.160	8.222	VV	801	18031	0.25%	0.014%
109	8.227	8.222	8.255	VV	496	8037	0.11%	0.006%
110	8.261	8.255	8.267	VV	442	2536	0.04%	0.002%
111	8.293	8.267	8.321	VV	50057	513005	7.20%	0.393%
112	8.329	8.321	8.341	VV	545	4444	0.06%	0.003%
113	8.357	8.341	8.364	VV	466	4567	0.06%	0.003%
114	8.410	8.364	8.471	VV	594927	5815252	81.61%	4.451%
115	8.484	8.471	8.499	VV	773	8993	0.13%	0.007%
116	8.502	8.499	8.516	VV	517	4526	0.06%	0.003%
117	8.529	8.516	8.563	VV	981	14787	0.21%	0.011%
118	8.569	8.563	8.573	VV	298	1508	0.02%	0.001%
119	8.607	8.573	8.637	VV	464409	4567118	64.09%	3.496%
120	8.657	8.637	8.675	VV	1622	27365	0.38%	0.021%
121	8.707	8.675	8.740	VV	613904	5894128	82.72%	4.512%
122	8.750	8.740	8.769	VV	1078	13182	0.18%	0.010%
123	8.785	8.769	8.795	VV	894	11538	0.16%	0.009%
124	8.803	8.795	8.815	VV	916	8871	0.12%	0.007%
125	8.833	8.815	8.840	VV	1067	12565	0.18%	0.010%
126	8.851	8.840	8.868	VV	1251	14910	0.21%	0.011%
127	8.874	8.868	8.881	VV	488	3238	0.05%	0.002%
128	8.897	8.881	8.912	VV	831	9969	0.14%	0.008%
129	8.914	8.912	8.930	VV	597	4582	0.06%	0.004%
130	8.946	8.930	8.961	VV	789	10618	0.15%	0.008%
131	8.976	8.961	8.988	VV	1205	14318	0.20%	0.011%
132	9.013	8.988	9.034	VV	70023	695386	9.76%	0.532%
133	9.043	9.034	9.082	VV	2903	45797	0.64%	0.035%
134	9.097	9.082	9.115	VV	2007	26277	0.37%	0.020%
135	9.133	9.115	9.153	VV	2965	41394	0.58%	0.032%
136	9.165	9.153	9.182	VV	1721	21038	0.30%	0.016%
137	9.201	9.182	9.217	VV	843	11759	0.17%	0.009%
138	9.222	9.217	9.231	VV	327	1480	0.02%	0.001%
139	9.253	9.231	9.270	PV	539	7782	0.11%	0.006%
140	9.304	9.270	9.320	VV	712	12038	0.17%	0.009%
141	9.335	9.320	9.349	VV	702	7948	0.11%	0.006%

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142	9.358	9.349	9.381	VV	476	5750	0.08%	0.004%
143	9.399	9.381	9.405	VV	679	7087	0.10%	0.005%
144	9.418	9.405	9.431	VV	801	8945	0.13%	0.007%
145	9.435	9.431	9.441	VV	334	1860	0.03%	0.001%
146	9.447	9.441	9.453	VV	451	2819	0.04%	0.002%
147	9.488	9.453	9.522	VV	609091	6208718	87.13%	4.752%
148	9.532	9.522	9.538	VV	566	4261	0.06%	0.003%
149	9.556	9.538	9.570	VV	973	10455	0.15%	0.008%
150	9.581	9.570	9.593	VV	485	4659	0.07%	0.004%
151	9.619	9.593	9.641	VV	667	13877	0.19%	0.011%
152	9.662	9.641	9.677	VV	1088	16814	0.24%	0.013%
153	9.697	9.677	9.717	VV	9906	105816	1.49%	0.081%
154	9.731	9.717	9.738	VV	1800	16226	0.23%	0.012%
155	9.759	9.738	9.789	VV	51403	505262	7.09%	0.387%
156	9.829	9.789	9.852	VV	652	15817	0.22%	0.012%
157	9.888	9.852	9.922	VV	50124	537472	7.54%	0.411%
158	9.965	9.922	9.974	VV	793	12761	0.18%	0.010%
159	9.976	9.974	10.012	VV	691	9318	0.13%	0.007%
160	10.040	10.012	10.055	VV	437	6991	0.10%	0.005%
161	10.061	10.055	10.076	VV	410	3045	0.04%	0.002%
162	10.082	10.076	10.119	VV	261	4318	0.06%	0.003%
163	10.127	10.119	10.133	VV	207	1243	0.02%	0.001%
164	10.139	10.133	10.148	VV	172	1107	0.02%	0.001%
165	10.166	10.148	10.172	PV	357	2936	0.04%	0.002%
166	10.175	10.172	10.185	VV	384	1731	0.02%	0.001%
167	10.206	10.185	10.240	VV	590	13962	0.20%	0.011%
168	10.254	10.240	10.268	VV	489	6722	0.09%	0.005%
169	10.282	10.268	10.296	VV	682	8776	0.12%	0.007%
170	10.325	10.296	10.340	VV	730	14169	0.20%	0.011%
171	10.354	10.340	10.384	VV	597	12496	0.18%	0.010%
172	10.413	10.384	10.435	VV	1297	22149	0.31%	0.017%
173	10.440	10.435	10.457	VV	515	5301	0.07%	0.004%
174	10.494	10.457	10.499	VV	758	12562	0.18%	0.010%
175	10.514	10.499	10.524	VV	851	10887	0.15%	0.008%
176	10.527	10.524	10.546	VV	724	6930	0.10%	0.005%
177	10.556	10.546	10.563	VV	635	5308	0.07%	0.004%
178	10.577	10.563	10.595	VV	807	12087	0.17%	0.009%
179	10.619	10.595	10.651	VV	1365	28653	0.40%	0.022%
180	10.674	10.651	10.708	VV	13099	184535	2.59%	0.141%
181	10.720	10.708	10.730	VV	857	9058	0.13%	0.007%
182	10.757	10.730	10.790	VV	1646	31903	0.45%	0.024%
183	10.821	10.790	10.832	VV	808	12247	0.17%	0.009%
184	10.849	10.832	10.857	VV	3643	36493	0.51%	0.028%
185	10.887	10.857	10.926	VV	585810	6229891	87.43%	4.769%
186	10.962	10.926	11.013	VV	580653	6069298	85.18%	4.646%
187	11.039	11.013	11.090	VV	1337	35135	0.49%	0.027%
188	11.093	11.090	11.113	VV	435	4342	0.06%	0.003%
189	11.126	11.113	11.145	VV	529	6571	0.09%	0.005%
190	11.164	11.145	11.186	VV	3964	42493	0.60%	0.033%
191	11.193	11.186	11.215	VV	377	3862	0.05%	0.003%
192	11.227	11.215	11.237	PV	201	1683	0.02%	0.001%
193	11.256	11.237	11.282	VV	610	9611	0.13%	0.007%
194	11.327	11.282	11.360	VV	47939	545860	7.66%	0.418%

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195	11.376	11.360	11.389	VV	456	4939	0.07%	0.004%
196	11.405	11.389	11.414	VV	596	5815	0.08%	0.004%
197	11.419	11.414	11.450	VV	394	5212	0.07%	0.004%
198	11.455	11.450	11.463	VV	229	1258	0.02%	0.001%
199	11.481	11.463	11.494	VV	307	3567	0.05%	0.003%
200	11.497	11.494	11.504	VV	268	1259	0.02%	0.001%
201	11.514	11.504	11.539	VV	536	5014	0.07%	0.004%
202	11.567	11.550	11.592	VV	222	2747	0.04%	0.002%
203	11.600	11.592	11.605	VV	398	1683	0.02%	0.001%
204	11.651	11.605	11.705	VV	494300	5334578	74.87%	4.083%
205	11.726	11.705	11.731	VV	988	12315	0.17%	0.009%
206	11.743	11.731	11.761	VV	1550	19769	0.28%	0.015%
207	11.778	11.761	11.791	VV	1165	15322	0.22%	0.012%
208	11.812	11.791	11.840	VV	2155	34232	0.48%	0.026%
209	11.856	11.840	11.887	VV	721	13339	0.19%	0.010%
210	11.903	11.887	11.909	VV	418	4604	0.06%	0.004%
211	11.926	11.909	11.941	VV	786	11181	0.16%	0.009%
212	11.986	11.941	12.017	VV	1151	32605	0.46%	0.025%
213	12.046	12.017	12.071	VV	8322	103575	1.45%	0.079%
214	12.084	12.071	12.111	VV	849	11215	0.16%	0.009%
215	12.136	12.111	12.145	VV	581	8113	0.11%	0.006%
216	12.152	12.145	12.177	VV	659	9310	0.13%	0.007%
217	12.237	12.177	12.315	VV	22110	332066	4.66%	0.254%
218	12.320	12.315	12.336	VV	1300	13573	0.19%	0.010%
219	12.354	12.336	12.388	VV	1394	33007	0.46%	0.025%
220	12.405	12.388	12.446	VV	1098	31356	0.44%	0.024%
221	12.475	12.446	12.482	VV	3082	39790	0.56%	0.030%
222	12.496	12.482	12.549	VV	4162	65521	0.92%	0.050%
223	12.573	12.549	12.603	VV	1705	29649	0.42%	0.023%
224	12.633	12.603	12.663	VV	49645	596425	8.37%	0.457%
225	12.702	12.663	12.754	VV	556707	6269959	87.99%	4.799%
226	12.763	12.754	12.779	VV	624	7665	0.11%	0.006%
227	12.786	12.779	12.807	VV	427	5953	0.08%	0.005%
228	12.826	12.807	12.847	VV	449	8236	0.12%	0.006%
229	12.853	12.847	12.860	VV	404	2248	0.03%	0.002%
230	12.881	12.860	12.934	VV	6564	82249	1.15%	0.063%
231	13.000	12.934	13.027	VV	551870	6101299	85.63%	4.670%
232	13.076	13.027	13.114	VV	79574	992450	13.93%	0.760%
233	13.121	13.114	13.149	VV	821	13528	0.19%	0.010%
234	13.154	13.149	13.164	VV	633	4657	0.07%	0.004%
235	13.169	13.164	13.186	VV	492	5020	0.07%	0.004%
236	13.202	13.186	13.210	VV	501	6188	0.09%	0.005%
237	13.242	13.210	13.274	VV	44473	532703	7.48%	0.408%
238	13.295	13.274	13.334	VV	4397	62018	0.87%	0.047%
239	13.336	13.334	13.347	VV	430	2954	0.04%	0.002%
240	13.361	13.347	13.367	VV	576	5308	0.07%	0.004%
241	13.372	13.367	13.389	VV	536	5902	0.08%	0.005%
242	13.396	13.389	13.401	VV	582	2941	0.04%	0.002%
243	13.408	13.401	13.410	VV	455	2563	0.04%	0.002%
244	13.419	13.410	13.424	VV	615	4294	0.06%	0.003%
245	13.428	13.424	13.440	VV	651	6024	0.08%	0.005%
246	13.469	13.440	13.566	VV	9027	189267	2.66%	0.145%

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247	13.583	13.566	13.590	VV	990	13268	0.19%	0.010%
248	13.591	13.590	13.606	VV	905	7414	0.10%	0.006%
249	13.614	13.606	13.625	VV	888	9357	0.13%	0.007%
250	13.630	13.625	13.640	VV	871	7372	0.10%	0.006%
251	13.645	13.640	13.680	VV	883	17155	0.24%	0.013%
252	13.688	13.680	13.693	VV	886	6273	0.09%	0.005%
253	13.699	13.693	13.719	VV	953	11948	0.17%	0.009%
254	13.734	13.719	13.747	VV	661	9034	0.13%	0.007%
255	13.778	13.747	13.798	VV	3009	46547	0.65%	0.036%
256	13.827	13.798	13.871	VV	43640	539084	7.57%	0.413%
257	13.877	13.871	13.882	VV	420	2390	0.03%	0.002%
258	13.887	13.882	13.903	VV	504	4350	0.06%	0.003%
259	13.921	13.903	13.930	VV	496	4975	0.07%	0.004%
260	13.936	13.930	13.949	VV	392	3078	0.04%	0.002%
261	13.955	13.949	13.960	VV	297	1548	0.02%	0.001%
262	13.967	13.960	13.980	VV	308	2427	0.03%	0.002%
263	13.987	13.980	13.999	PV	389	2523	0.04%	0.002%
264	14.003	13.999	14.034	VV	363	4218	0.06%	0.003%
265	14.040	14.034	14.059	VV	283	3528	0.05%	0.003%
266	14.062	14.059	14.067	VV	278	1126	0.02%	0.001%
267	14.074	14.067	14.080	VV	215	1401	0.02%	0.001%
268	14.090	14.080	14.114	VV	414	5602	0.08%	0.004%
269	14.119	14.114	14.136	VV	471	4002	0.06%	0.003%
270	14.143	14.136	14.150	VV	289	2296	0.03%	0.002%
271	14.155	14.150	14.183	VV	372	6044	0.08%	0.005%
272	14.188	14.183	14.194	VV	320	1481	0.02%	0.001%
273	14.216	14.194	14.238	VV	1111	17570	0.25%	0.013%
274	14.259	14.238	14.285	VV	1544	24769	0.35%	0.019%
275	14.290	14.285	14.319	VV	509	8379	0.12%	0.006%
276	14.335	14.319	14.369	VV	617	11591	0.16%	0.009%
277	14.390	14.369	14.408	VV	719	12215	0.17%	0.009%
278	14.414	14.408	14.439	VV	396	6663	0.09%	0.005%
279	14.467	14.439	14.474	VV	670	10231	0.14%	0.008%
280	14.475	14.474	14.479	VV	642	1830	0.03%	0.001%
281	14.483	14.479	14.487	VV	557	2477	0.03%	0.002%
282	14.495	14.487	14.524	VV	747	13120	0.18%	0.010%
283	14.552	14.524	14.580	VV	889	18588	0.26%	0.014%
284	14.597	14.580	14.627	VV	429	7940	0.11%	0.006%
285	14.651	14.627	14.662	VV	468	6189	0.09%	0.005%
286	14.667	14.662	14.674	VV	377	2547	0.04%	0.002%
287	14.680	14.674	14.694	VV	432	4355	0.06%	0.003%
288	14.737	14.694	14.752	VV	621	18176	0.26%	0.014%
289	14.766	14.752	14.817	VV	865	17199	0.24%	0.013%
290	14.871	14.817	14.891	VV	423924	5562723	78.07%	4.258%
291	14.916	14.891	14.952	VV	498609	5853854	82.15%	4.481%
292	14.972	14.952	15.014	VV	3470	62327	0.87%	0.048%
293	15.020	15.014	15.045	VV	463	6418	0.09%	0.005%
294	15.057	15.045	15.084	VV	410	7605	0.11%	0.006%
295	15.101	15.084	15.125	VV	711	12620	0.18%	0.010%
296	15.130	15.125	15.144	VV	468	3620	0.05%	0.003%
297	15.150	15.144	15.185	VV	718	9712	0.14%	0.007%
298	15.211	15.185	15.259	VV	583	13420	0.19%	0.010%
299	15.301	15.259	15.345	VV	24919	327347	4.59%	0.251%

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300	15.348	15.345	15.380	VV	1060	15006	0.21%	0.011%
301	15.400	15.380	15.427	VV	1756	28441	0.40%	0.022%
302	15.464	15.427	15.485	VV	1679	35620	0.50%	0.027%
303	15.502	15.485	15.515	VV	760	11150	0.16%	0.009%
304	15.519	15.515	15.547	VV	639	7880	0.11%	0.006%
305	15.578	15.547	15.602	VV	1576	23710	0.33%	0.018%
306	15.608	15.602	15.635	VV	531	7753	0.11%	0.006%
307	15.637	15.635	15.641	VV	406	1123	0.02%	0.001%
308	15.660	15.641	15.694	VV	806	14147	0.20%	0.011%
309	15.707	15.694	15.730	VV	416	6896	0.10%	0.005%
310	15.739	15.730	15.745	VV	409	3095	0.04%	0.002%
311	15.773	15.745	15.797	VV	1541	25837	0.36%	0.020%
312	15.819	15.797	15.844	VV	1335	24113	0.34%	0.018%
313	15.847	15.844	15.862	VV	580	4590	0.06%	0.004%
314	15.866	15.862	15.870	VV	560	2316	0.03%	0.002%
315	15.876	15.870	15.882	VV	481	3041	0.04%	0.002%
316	15.906	15.882	15.917	VV	1392	18917	0.27%	0.014%
317	15.945	15.917	15.985	VV	36973	480341	6.74%	0.368%
318	16.006	15.985	16.040	VV	2527	36039	0.51%	0.028%
319	16.048	16.040	16.058	VV	222	1710	0.02%	0.001%
320	16.090	16.058	16.100	VV	371	5636	0.08%	0.004%
321	16.116	16.100	16.133	VV	511	7006	0.10%	0.005%
322	16.148	16.133	16.191	VV	880	13233	0.19%	0.010%
323	16.209	16.191	16.223	PV	173	2266	0.03%	0.002%
324	16.231	16.223	16.242	VV	261	2034	0.03%	0.002%
325	16.311	16.242	16.355	VV	10398	163058	2.29%	0.125%
326	16.361	16.355	16.370	VV	731	6160	0.09%	0.005%
327	16.373	16.370	16.378	VV	721	3298	0.05%	0.003%
328	16.423	16.378	16.438	VV	387601	5508924	77.31%	4.217%
329	16.457	16.438	16.484	VV	464204	5354656	75.15%	4.099%
330	16.505	16.484	16.534	VV	1755	31280	0.44%	0.024%
331	16.558	16.534	16.594	VV	1915	33156	0.47%	0.025%
332	16.602	16.594	16.618	VV	574	6581	0.09%	0.005%
333	16.631	16.618	16.636	VV	389	3046	0.04%	0.002%
334	16.665	16.636	16.707	VV	2588	37992	0.53%	0.029%
335	16.726	16.707	16.732	VV	548	5770	0.08%	0.004%
336	16.736	16.732	16.757	VV	512	5789	0.08%	0.004%
337	16.802	16.757	16.831	VV	405502	5194498	72.90%	3.976%
338	16.891	16.831	16.922	VV	41309	563356	7.91%	0.431%
339	16.942	16.922	16.952	VV	1269	14185	0.20%	0.011%
340	16.967	16.952	17.002	VV	2446	35329	0.50%	0.027%
341	17.005	17.002	17.026	VV	475	4019	0.06%	0.003%
342	17.037	17.026	17.047	VV	275	2467	0.03%	0.002%
343	17.055	17.047	17.069	VV	393	2635	0.04%	0.002%
344	17.078	17.069	17.093	VV	281	2386	0.03%	0.002%
345	17.110	17.101	17.119	VV	312	1610	0.02%	0.001%
346	17.132	17.125	17.145	PV	203	1660	0.02%	0.001%
347	17.157	17.145	17.170	VV	270	2128	0.03%	0.002%
348	17.183	17.170	17.198	VV	261	2051	0.03%	0.002%
349	17.213	17.198	17.219	VV	264	1716	0.02%	0.001%
350	17.253	17.219	17.313	VV	5230	97888	1.37%	0.075%
351	17.339	17.313	17.383	VV	2611	43745	0.61%	0.033%

rteres

352	17.429	17.383	17.433	VV	821	13319	0.19%	0.010%
353	17.440	17.433	17.475	VV	1020	17867	0.25%	0.014%
354	17.480	17.475	17.529	VV	569	10090	0.14%	0.008%
355	17.565	17.529	17.591	PV	539	10859	0.15%	0.008%
356	17.595	17.591	17.608	VV	353	2622	0.04%	0.002%
357	17.618	17.608	17.623	VV	331	2147	0.03%	0.002%
358	17.632	17.623	17.647	VV	371	4301	0.06%	0.003%
359	17.668	17.647	17.684	VV	692	10947	0.15%	0.008%
360	17.701	17.684	17.705	VV	964	8052	0.11%	0.006%
361	17.717	17.705	17.729	VV	958	12276	0.17%	0.009%
362	17.776	17.729	17.809	VV	33995	471405	6.62%	0.361%
363	17.819	17.809	17.825	VV	360	2470	0.03%	0.002%
364	17.831	17.825	17.837	VV	423	2188	0.03%	0.002%
365	17.865	17.837	17.899	VV	2866	43367	0.61%	0.033%
366	17.903	17.899	17.909	VV	373	1418	0.02%	0.001%
367	17.914	17.909	17.925	VV	261	2101	0.03%	0.002%
368	17.932	17.925	17.939	VV	284	1637	0.02%	0.001%
369	17.941	17.939	17.950	VV	296	1662	0.02%	0.001%
370	17.967	17.950	17.975	VV	272	3372	0.05%	0.003%
371	18.004	17.975	18.025	VV	964	17237	0.24%	0.013%
372	18.030	18.025	18.037	VV	384	1737	0.02%	0.001%
373	18.047	18.037	18.065	VV	472	5586	0.08%	0.004%
374	18.066	18.065	18.085	VV	347	2201	0.03%	0.002%
375	18.169	18.085	18.184	PV	382069	5654482	79.35%	4.328%
376	18.207	18.184	18.253	VV	396857	4950651	69.48%	3.789%
377	18.290	18.253	18.311	VV	1127	28119	0.39%	0.022%
378	18.335	18.311	18.375	VV	5847	85752	1.20%	0.066%
379	18.427	18.375	18.479	VV	381199	5221194	73.27%	3.996%
380	18.507	18.479	18.532	VV	3255	49542	0.70%	0.038%
381	18.550	18.532	18.564	VV	908	12638	0.18%	0.010%
382	18.605	18.564	18.662	VV	31963	464595	6.52%	0.356%
383	18.703	18.662	18.734	PV	3557	59271	0.83%	0.045%
384	18.748	18.734	18.792	VV	911	21745	0.31%	0.017%
385	18.811	18.802	18.834	VV	276	3041	0.04%	0.002%
386	18.892	18.834	18.919	PV	3333	44630	0.63%	0.034%
387	18.955	18.919	18.985	PV	9286	141562	1.99%	0.108%

Sum of corrected areas: 130644635

Aromatic EPH 050125.M Fri May 09 09:51:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068805.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 21:41
Operator : YP/AJ
Sample : Q1901-04MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB02MSD

Integration File: autoint1.e
Quant Time: May 09 09:09:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.142	2948527	36.753 ug/ml
Spiked Amount	50.000		Recovery =	73.51%
	Target Compounds			
1) T	n-Nonane (C9)	3.442	2011260	19.997 ug/ml
2) T	n-Decane (C10)	4.517	2514803	25.238 ug/ml
4) T	n-Dodecane (C12)	6.542	2910772	29.953 ug/ml
6) T	n-Tetradecane (C14)	8.340	3204590	34.672 ug/ml
7) T	n-Hexadecane (C16)	9.942	3326563	37.150 ug/ml
8) T	n-Octadecane (C18)	11.386	3352938	38.224 ug/ml
10) T	n-Eicosane (C20)	12.696	3421203	40.146 ug/ml
11) T	n-Heneicosane (C21)	13.309	3266330	38.726 ug/ml
13) T	n-Docosane (C22)	13.896	3256569	38.927 ug/ml
14) T	n-Tetracosane (C24)	14.999	3217704	38.671 ug/ml
15) T	n-Hexacosane (C26)	16.022	3170198	38.263 ug/ml
16) T	n-Octacosane (C28)	16.973	3130974	37.884 ug/ml
17) T	n-Tricontane (C30)	17.860	3173913	37.511 ug/ml
18) T	n-Dotriacontane (C32)	18.694	3135522	36.402 ug/ml
19) T	n-Tetratriacontane (C34)	19.480	3078209	36.129 ug/ml
20) T	n-Hexatriacontane (C36)	20.221	2916733	33.936 ug/ml
21) T	n-Octatriacontane (C38)	20.994	2812971	33.534 ug/ml
22) T	n-Tetracontane (C40)	21.969	2695372	32.888 ug/ml

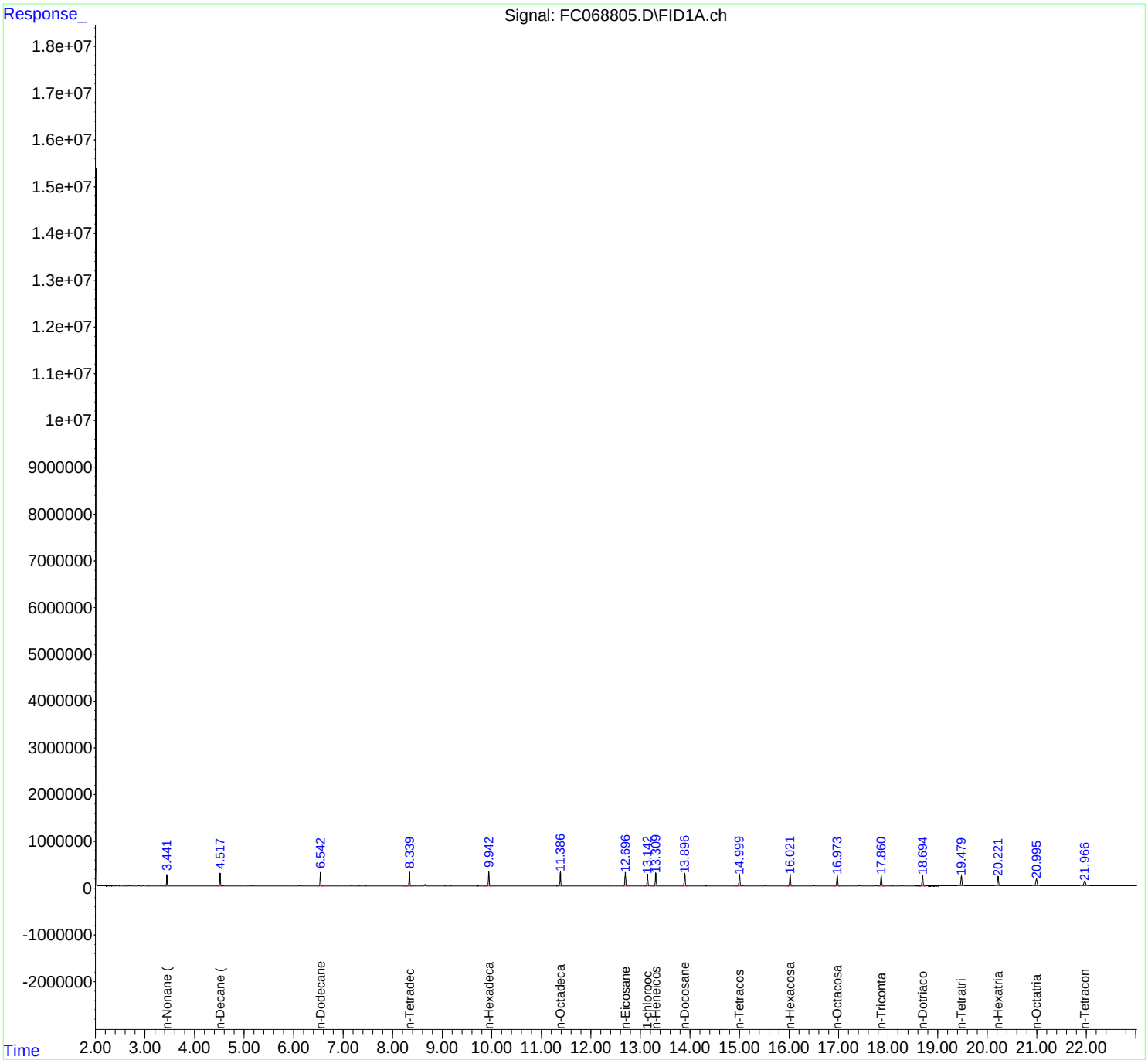
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068805.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 21:41
Operator : YP/AJ
Sample : Q1901-04MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-167-SB02MSD

Integration File: autoint1.e
Quant Time: May 09 09:09:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Quant Title : GC Extractables
QLast Update : Wed May 07 08:52:03 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050825AL\
Data File : FC068805.D
Signal(s) : FID1A.ch
Acq On : 08 May 2025 21:41
Sample : Q1901-04MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050625.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.442	3.390	3.479	BB	245502	2011260	58.79%	3.466%
2	4.517	4.462	4.545	BV	281004	2514803	73.51%	4.334%
3	4.564	4.545	4.607	VB	11348	100140	2.93%	0.173%
4	6.115	6.065	6.142	BB	5508	51598	1.51%	0.089%
5	6.542	6.489	6.590	BB	295258	2910772	85.08%	5.016%
6	8.340	8.207	8.385	BB	303690	3204590	93.67%	5.523%
7	8.653	8.599	8.699	BB	28409	281337	8.22%	0.485%
8	9.942	9.817	9.992	BB	305664	3326563	97.23%	5.733%
9	11.386	11.340	11.417	BB	300580	3352938	98.00%	5.778%
10	12.696	12.660	12.749	BB	288002	3421203	100.00%	5.896%
11	13.142	13.085	13.179	BB	255268	2948527	86.18%	5.081%
12	13.309	13.249	13.347	BB	279037	3266330	95.47%	5.629%
13	13.896	13.862	13.949	VB	265588	3256569	95.19%	5.612%
14	14.999	14.909	15.035	BV	246140	3217704	94.05%	5.545%
15	16.022	15.930	16.074	BB	250503	3170198	92.66%	5.463%
16	16.973	16.889	17.035	BB	235257	3130974	91.52%	5.396%
17	17.421	17.369	17.447	BB	3775	48816	1.43%	0.084%
18	17.860	17.790	17.920	BB	232446	3173913	92.77%	5.470%
19	18.694	18.630	18.757	BB	230480	3135522	91.65%	5.404%
20	19.480	19.407	19.537	BB	214786	3078209	89.97%	5.305%
21	20.221	20.150	20.259	BB	202220	2916733	85.25%	5.027%
22	20.994	20.910	21.067	BB	147006	2812971	82.22%	4.848%
23	21.969	21.872	22.064	BB	105883	2695372	78.78%	4.645%
			Sum of corrected areas:			58027043		

Aliphatic EPH 050625.M Fri May 09 09:41:56 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049331.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049331.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 21:04
Operator : YP/AJ
Sample : Q1901-04MSD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB02MSD

Integration File: autoint1.e
Quant Time: May 09 09:21:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.741	7121821	60.064 ug/ml
Spiked Amount	50.000		Recovery =	120.13%
6) S	2-Flurobiphenyl (SURR)	8.607	4534162	57.415 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	114.83%
11) S	ortho-Terphenyl (SURR)	11.651	5295430	38.367 ug/ml
Spiked Amount	50.000		Recovery =	76.73%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.531	3927868	31.459 ug/ml
2) T	Naphthalene (C11.7)	6.076	4827602	36.516 ug/ml
3) T	2-Methylnaphthalene (...	7.130	4789253	37.125 ug/ml
5) T	Acenaphthylene (C15.06)	8.410	5796215	41.060 ug/ml
7) T	Acenaphthene (C15.5)	8.706	5868027	42.828 ug/ml
8) T	Flouorene (C16.55)	9.488	6177431	45.384 ug/ml
9) T	Phenanthrene (C19.36)	10.886	6214722	46.096 ug/ml
10) T	Anthracene (C19.43)	10.962	6027275	50.962 ug/ml
12) T	Fluoranthene (C21.85)	12.701	6221870	46.168 ug/ml
13) T	Pyrene (C20.8)	12.999	6051806	44.737 ug/ml
14) T	Benzo[a]anthracene (C...	14.871	5583646	48.746 ug/ml
15) T	Chrysene (C27.41)	14.915	5871355	50.306 ug/ml
16) T	benzo[b]fluoranthene ...	16.423	5562427	45.824 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.458	5381787	45.125 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.803	5232066	45.503 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.170	5649946	51.483 ug/ml
20) T	Dibenz[a,h]anthracene...	18.208	4973171	47.088 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.426	5259343	44.133 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

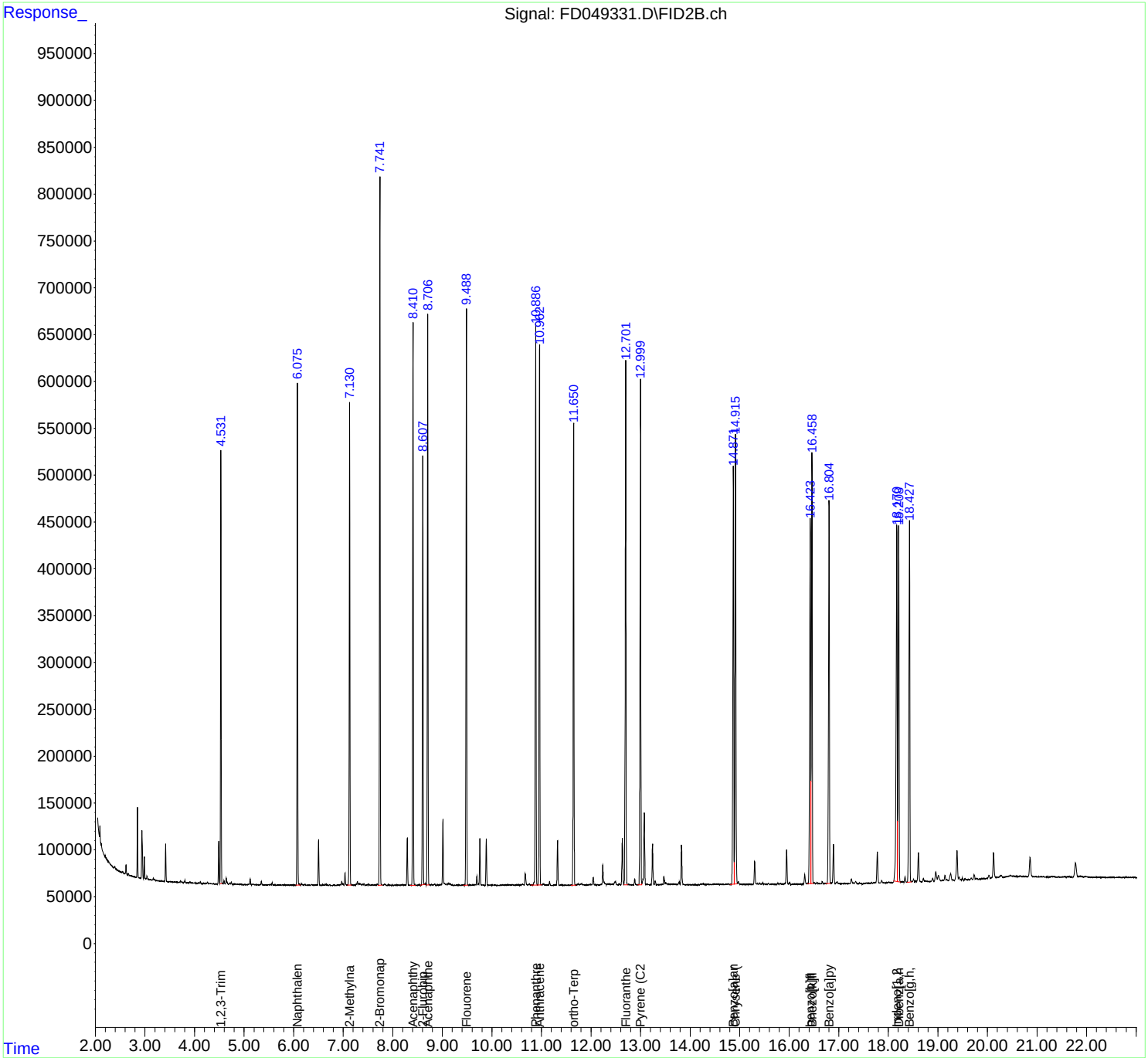
Sample Results: **FD049331.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049331.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 21:04
Operator : YP/AJ
Sample : Q1901-04MSD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-167-SB02MSD

Integration File: autoint1.e
Quant Time: May 09 09:21:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Quant Title : GC Extractables
QLast Update : Thu May 01 13:29:48 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD050825AR\
Data File : FD049331.D
Signal(s) : FID2B.ch
Acq On : 08 May 2025 21:04
Sample : Q1901-04MSD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 050125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.266	4.252	4.290	BV	713	5553	0.08%	0.004%
2	4.297	4.290	4.316	PV	355	3642	0.05%	0.003%
3	4.320	4.316	4.334	VV	163	1219	0.02%	0.001%
4	4.338	4.334	4.367	PV	284	1086	0.02%	0.001%
5	4.383	4.377	4.418	PV	324	3548	0.05%	0.003%
6	4.447	4.418	4.465	VV	335	5138	0.07%	0.004%
7	4.488	4.465	4.509	PV	46038	409666	5.74%	0.309%
8	4.531	4.509	4.556	VV	461893	3947368	55.31%	2.973%
9	4.563	4.556	4.580	VV	1259	13022	0.18%	0.010%
10	4.595	4.580	4.617	VV	3886	40725	0.57%	0.031%
11	4.640	4.617	4.683	VV	6921	88235	1.24%	0.066%
12	4.690	4.683	4.702	VV	472	4498	0.06%	0.003%
13	4.713	4.702	4.729	VV	1506	16191	0.23%	0.012%
14	4.743	4.729	4.770	VV	2815	26224	0.37%	0.020%
15	4.800	4.770	4.811	PV	1205	13587	0.19%	0.010%
16	4.831	4.811	4.852	VV	788	12086	0.17%	0.009%
17	4.859	4.852	4.898	VV	589	7764	0.11%	0.006%
18	4.906	4.898	4.908	VV	207	1278	0.02%	0.001%
19	4.916	4.908	4.922	VV	354	2064	0.03%	0.002%
20	4.933	4.922	4.951	VV	632	7187	0.10%	0.005%
21	4.959	4.951	4.972	PV	409	2980	0.04%	0.002%
22	4.980	4.972	4.992	VV	234	2167	0.03%	0.002%
23	5.001	4.992	5.010	VV	230	1727	0.02%	0.001%
24	5.014	5.010	5.031	VV	199	1955	0.03%	0.001%
25	5.045	5.031	5.052	VV	386	3000	0.04%	0.002%
26	5.058	5.052	5.067	VV	305	1878	0.03%	0.001%
27	5.097	5.067	5.106	VV	1064	12203	0.17%	0.009%
28	5.123	5.106	5.151	VV	6387	67679	0.95%	0.051%
29	5.181	5.151	5.202	VV	1269	14624	0.20%	0.011%
30	5.207	5.202	5.212	VV	255	1181	0.02%	0.001%
31	5.216	5.212	5.227	VV	177	1262	0.02%	0.001%
32	5.235	5.227	5.255	VV	429	4440	0.06%	0.003%
33	5.261	5.255	5.268	VV	325	1668	0.02%	0.001%
34	5.274	5.268	5.285	VV	193	1403	0.02%	0.001%
35	5.290	5.285	5.302	VV	205	1320	0.02%	0.001%
36	5.319	5.302	5.333	VV	461	6040	0.08%	0.005%

rteres

37	5.348	5.333	5.381	VV	4155	41847	0.59%	0.032%
38	5.386	5.381	5.395	VV	208	1302	0.02%	0.001%
39	5.399	5.395	5.409	VV	252	1613	0.02%	0.001%
40	5.431	5.409	5.444	VV	377	5224	0.07%	0.004%
41	5.450	5.444	5.475	VV	202	3062	0.04%	0.002%
42	5.495	5.475	5.507	VV	452	5576	0.08%	0.004%
43	5.525	5.507	5.544	VV	957	11016	0.15%	0.008%
44	5.567	5.544	5.586	VV	2195	22739	0.32%	0.017%
45	5.604	5.586	5.610	VV	374	3453	0.05%	0.003%
46	5.623	5.610	5.650	VV	763	8253	0.12%	0.006%
47	5.668	5.650	5.677	PV	430	3884	0.05%	0.003%
48	5.685	5.677	5.702	VV	425	3400	0.05%	0.003%
49	5.708	5.702	5.720	VV	392	2914	0.04%	0.002%
50	5.737	5.720	5.757	VV	437	6162	0.09%	0.005%
51	5.768	5.757	5.785	VV	510	5109	0.07%	0.004%
52	5.822	5.785	5.842	PV	598	7651	0.11%	0.006%
53	5.856	5.842	5.879	VV	369	5376	0.08%	0.004%
54	5.892	5.879	5.910	VV	254	3171	0.04%	0.002%
55	5.935	5.926	5.951	VV	358	2444	0.03%	0.002%
56	5.964	5.951	5.975	VV	384	2914	0.04%	0.002%
57	5.986	5.975	6.005	VV	558	6211	0.09%	0.005%
58	6.012	6.005	6.028	VV	515	4192	0.06%	0.003%
59	6.031	6.028	6.043	VV	296	2295	0.03%	0.002%
60	6.047	6.043	6.050	VV	365	1112	0.02%	0.001%
61	6.076	6.050	6.111	VV	534452	4827260	67.64%	3.636%
62	6.121	6.111	6.143	VV	1414	18795	0.26%	0.014%
63	6.164	6.143	6.198	VV	1489	24248	0.34%	0.018%
64	6.222	6.198	6.248	VV	987	16927	0.24%	0.013%
65	6.261	6.248	6.268	VV	359	3637	0.05%	0.003%
66	6.272	6.268	6.277	VV	338	1629	0.02%	0.001%
67	6.296	6.277	6.310	VV	551	7179	0.10%	0.005%
68	6.332	6.310	6.340	VV	377	4642	0.07%	0.003%
69	6.358	6.340	6.413	VV	1026	20817	0.29%	0.016%
70	6.417	6.413	6.423	VV	428	1618	0.02%	0.001%
71	6.431	6.423	6.435	VV	304	1934	0.03%	0.001%
72	6.448	6.435	6.454	VV	503	4748	0.07%	0.004%
73	6.457	6.454	6.474	VV	473	3983	0.06%	0.003%
74	6.503	6.474	6.533	VV	49116	472429	6.62%	0.356%
75	6.542	6.533	6.559	VV	361	4232	0.06%	0.003%
76	6.563	6.559	6.568	VV	399	1660	0.02%	0.001%
77	6.589	6.568	6.603	VV	928	10184	0.14%	0.008%
78	6.623	6.603	6.636	VV	770	8965	0.13%	0.007%
79	6.653	6.636	6.675	VV	1715	19175	0.27%	0.014%
80	6.690	6.675	6.706	VV	749	6471	0.09%	0.005%
81	6.727	6.706	6.744	VV	939	9584	0.13%	0.007%
82	6.760	6.744	6.765	PV	284	1881	0.03%	0.001%
83	6.770	6.765	6.776	VV	249	1371	0.02%	0.001%
84	6.781	6.776	6.788	VV	194	1216	0.02%	0.001%
85	6.792	6.788	6.797	VV	252	1007	0.01%	0.001%
86	6.803	6.797	6.813	VV	216	2188	0.03%	0.002%
87	6.833	6.813	6.857	VV	416	6543	0.09%	0.005%
88	6.878	6.857	6.900	VV	562	8328	0.12%	0.006%
89	6.906	6.900	6.923	VV	319	3496	0.05%	0.003%

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90	6.945	6.923	6.955	VV	1188	13267	0.19%	0.010%
91	6.971	6.955	6.986	VV	4045	41176	0.58%	0.031%
92	6.999	6.986	7.013	VV	1444	17817	0.25%	0.013%
93	7.037	7.013	7.092	VV	13518	150236	2.11%	0.113%
94	7.130	7.092	7.161	VV	515737	4805207	67.33%	3.619%
95	7.165	7.161	7.205	VV	679	10829	0.15%	0.008%
96	7.217	7.205	7.221	VV	397	3550	0.05%	0.003%
97	7.233	7.221	7.249	VV	776	7910	0.11%	0.006%
98	7.286	7.249	7.303	VV	4163	61937	0.87%	0.047%
99	7.319	7.303	7.335	VV	2616	32737	0.46%	0.025%
100	7.346	7.335	7.380	VV	1991	28140	0.39%	0.021%
101	7.394	7.380	7.407	VV	1749	16993	0.24%	0.013%
102	7.421	7.407	7.449	VV	1375	18350	0.26%	0.014%
103	7.466	7.449	7.477	VV	670	8009	0.11%	0.006%
104	7.491	7.477	7.503	VV	1070	12079	0.17%	0.009%
105	7.517	7.503	7.536	VV	1278	14976	0.21%	0.011%
106	7.559	7.536	7.563	VV	418	4039	0.06%	0.003%
107	7.582	7.563	7.590	VV	705	7892	0.11%	0.006%
108	7.601	7.590	7.618	VV	905	10324	0.14%	0.008%
109	7.637	7.618	7.655	VV	645	10208	0.14%	0.008%
110	7.658	7.655	7.668	VV	571	3784	0.05%	0.003%
111	7.686	7.668	7.706	VV	1797	21413	0.30%	0.016%
112	7.741	7.706	7.793	VV	757521	7137015	100.00%	5.375%
113	7.834	7.793	7.871	VV	1142	30790	0.43%	0.023%
114	7.884	7.871	7.889	VV	441	3250	0.05%	0.002%
115	7.908	7.889	7.928	VV	776	9763	0.14%	0.007%
116	7.946	7.928	7.970	VV	439	6561	0.09%	0.005%
117	7.990	7.970	8.022	VV	891	12556	0.18%	0.009%
118	8.052	8.022	8.065	VV	485	7823	0.11%	0.006%
119	8.083	8.065	8.122	VV	550	10670	0.15%	0.008%
120	8.135	8.122	8.140	VV	424	3610	0.05%	0.003%
121	8.146	8.140	8.150	VV	432	2002	0.03%	0.002%
122	8.154	8.150	8.158	VV	373	1569	0.02%	0.001%
123	8.169	8.158	8.180	VV	523	5433	0.08%	0.004%
124	8.196	8.180	8.220	VV	895	15002	0.21%	0.011%
125	8.231	8.220	8.239	VV	467	4283	0.06%	0.003%
126	8.244	8.239	8.257	VV	417	4010	0.06%	0.003%
127	8.263	8.257	8.266	VV	488	2356	0.03%	0.002%
128	8.294	8.266	8.340	VV	51194	522213	7.32%	0.393%
129	8.357	8.340	8.375	VV	533	4738	0.07%	0.004%
130	8.410	8.375	8.440	VV	601160	5799931	81.27%	4.368%
131	8.443	8.440	8.480	VV	987	10704	0.15%	0.008%
132	8.488	8.480	8.510	VV	527	6030	0.08%	0.005%
133	8.528	8.510	8.560	VV	1003	12973	0.18%	0.010%
134	8.566	8.560	8.573	PV	291	1179	0.02%	0.001%
135	8.607	8.573	8.650	VV	459147	4572812	64.07%	3.444%
136	8.659	8.650	8.675	VV	1700	17915	0.25%	0.013%
137	8.706	8.675	8.742	VV	610242	5893027	82.57%	4.438%
138	8.749	8.742	8.771	VV	1026	13757	0.19%	0.010%
139	8.782	8.771	8.789	VV	942	8188	0.11%	0.006%
140	8.805	8.789	8.814	VV	849	10603	0.15%	0.008%
141	8.843	8.814	8.875	VV	1174	28758	0.40%	0.022%

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142	8.896	8.875	8.907	VV	737	8100	0.11%	0.006%
143	8.911	8.907	8.930	VV	558	5174	0.07%	0.004%
144	8.945	8.930	8.960	VV	877	9062	0.13%	0.007%
145	8.976	8.960	8.987	VV	1142	11593	0.16%	0.009%
146	9.013	8.987	9.035	VV	70769	696871	9.76%	0.525%
147	9.043	9.035	9.061	VV	2681	32072	0.45%	0.024%
148	9.068	9.061	9.083	VV	1202	13831	0.19%	0.010%
149	9.098	9.083	9.116	VV	2162	28387	0.40%	0.021%
150	9.132	9.116	9.153	VV	2788	39806	0.56%	0.030%
151	9.168	9.153	9.188	VV	1838	21449	0.30%	0.016%
152	9.203	9.188	9.232	VV	736	10618	0.15%	0.008%
153	9.251	9.232	9.273	VV	496	7241	0.10%	0.005%
154	9.300	9.273	9.326	VV	669	13441	0.19%	0.010%
155	9.335	9.326	9.375	VV	716	10515	0.15%	0.008%
156	9.406	9.375	9.435	PV	658	15266	0.21%	0.011%
157	9.446	9.435	9.449	VV	449	3024	0.04%	0.002%
158	9.488	9.449	9.517	VV	616330	6193766	86.78%	4.665%
159	9.523	9.517	9.533	VV	523	4718	0.07%	0.004%
160	9.542	9.533	9.547	VV	570	3910	0.05%	0.003%
161	9.554	9.547	9.577	VV	583	7270	0.10%	0.005%
162	9.582	9.577	9.600	VV	418	3681	0.05%	0.003%
163	9.615	9.600	9.647	VV	837	13610	0.19%	0.010%
164	9.660	9.647	9.680	VV	1009	14523	0.20%	0.011%
165	9.697	9.680	9.718	VV	9801	100850	1.41%	0.076%
166	9.731	9.718	9.738	VV	1612	14320	0.20%	0.011%
167	9.759	9.738	9.790	VV	50239	501977	7.03%	0.378%
168	9.797	9.790	9.802	VV	613	3636	0.05%	0.003%
169	9.827	9.802	9.860	VV	610	14488	0.20%	0.011%
170	9.888	9.860	9.938	VV	49906	539558	7.56%	0.406%
171	9.956	9.938	10.008	VV	486	13333	0.19%	0.010%
172	10.022	10.008	10.028	VV	322	2876	0.04%	0.002%
173	10.036	10.028	10.048	VV	431	3623	0.05%	0.003%
174	10.054	10.048	10.062	VV	297	2275	0.03%	0.002%
175	10.069	10.062	10.092	VV	343	4063	0.06%	0.003%
176	10.101	10.092	10.106	VV	346	1829	0.03%	0.001%
177	10.111	10.106	10.124	VV	202	1381	0.02%	0.001%
178	10.130	10.124	10.147	VV	258	2278	0.03%	0.002%
179	10.167	10.154	10.183	VV	589	6354	0.09%	0.005%
180	10.212	10.183	10.233	VV	633	13027	0.18%	0.010%
181	10.235	10.233	10.244	VV	587	2624	0.04%	0.002%
182	10.249	10.244	10.263	VV	350	3438	0.05%	0.003%
183	10.284	10.263	10.297	VV	665	9466	0.13%	0.007%
184	10.323	10.297	10.338	VV	925	15598	0.22%	0.012%
185	10.351	10.338	10.367	VV	624	8819	0.12%	0.007%
186	10.372	10.367	10.385	VV	524	4422	0.06%	0.003%
187	10.412	10.385	10.440	VV	1212	20188	0.28%	0.015%
188	10.444	10.440	10.449	VV	279	1173	0.02%	0.001%
189	10.454	10.449	10.460	VV	276	1435	0.02%	0.001%
190	10.474	10.460	10.480	VV	472	3509	0.05%	0.003%
191	10.496	10.480	10.505	VV	877	8913	0.12%	0.007%
192	10.515	10.505	10.544	VV	793	13039	0.18%	0.010%
193	10.576	10.544	10.595	VV	732	16804	0.24%	0.013%
194	10.620	10.595	10.651	VV	1435	29882	0.42%	0.023%

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195	10.674	10.651	10.707	VV	12882	184447	2.58%	0.139%
196	10.718	10.707	10.731	VV	924	10567	0.15%	0.008%
197	10.760	10.731	10.780	VV	1633	29664	0.42%	0.022%
198	10.784	10.780	10.791	VV	551	2846	0.04%	0.002%
199	10.822	10.791	10.828	VV	763	11846	0.17%	0.009%
200	10.851	10.828	10.856	VV	3577	35437	0.50%	0.027%
201	10.886	10.856	10.922	VV	600132	6200328	86.88%	4.670%
202	10.962	10.922	11.014	VV	575876	6054294	84.83%	4.560%
203	11.034	11.014	11.070	VV	1371	30890	0.43%	0.023%
204	11.082	11.070	11.099	VV	589	7838	0.11%	0.006%
205	11.105	11.099	11.112	VV	447	2667	0.04%	0.002%
206	11.122	11.112	11.142	VV	512	7189	0.10%	0.005%
207	11.164	11.142	11.193	VV	4030	45969	0.64%	0.035%
208	11.198	11.193	11.204	VV	270	1045	0.01%	0.001%
209	11.212	11.204	11.227	PV	239	2123	0.03%	0.002%
210	11.258	11.227	11.284	VV	818	12707	0.18%	0.010%
211	11.327	11.284	11.363	VV	48030	546776	7.66%	0.412%
212	11.384	11.363	11.392	VV	507	6824	0.10%	0.005%
213	11.405	11.392	11.458	VV	648	13795	0.19%	0.010%
214	11.515	11.458	11.551	VV	460	15763	0.22%	0.012%
215	11.560	11.551	11.581	VV	400	5293	0.07%	0.004%
216	11.604	11.581	11.613	VV	296	4156	0.06%	0.003%
217	11.651	11.613	11.700	VV	492692	5308920	74.39%	3.999%
218	11.743	11.700	11.762	VV	1617	34745	0.49%	0.026%
219	11.778	11.762	11.795	VV	1116	16936	0.24%	0.013%
220	11.811	11.795	11.842	VV	2068	32561	0.46%	0.025%
221	11.858	11.842	11.885	VV	793	11913	0.17%	0.009%
222	11.927	11.885	11.943	VV	771	16146	0.23%	0.012%
223	11.991	11.943	12.016	VV	1012	33333	0.47%	0.025%
224	12.046	12.016	12.071	VV	8389	105196	1.47%	0.079%
225	12.089	12.071	12.112	VV	867	14367	0.20%	0.011%
226	12.133	12.112	12.148	VV	633	11550	0.16%	0.009%
227	12.155	12.148	12.185	VV	754	10875	0.15%	0.008%
228	12.237	12.185	12.313	VV	21936	336911	4.72%	0.254%
229	12.328	12.313	12.346	VV	1390	25057	0.35%	0.019%
230	12.356	12.346	12.397	VV	1546	36787	0.52%	0.028%
231	12.403	12.397	12.415	VV	1137	11005	0.15%	0.008%
232	12.426	12.415	12.440	VV	1120	14805	0.21%	0.011%
233	12.495	12.440	12.541	VV	4573	115834	1.62%	0.087%
234	12.571	12.541	12.598	VV	1788	32541	0.46%	0.025%
235	12.632	12.598	12.662	VV	50269	600247	8.41%	0.452%
236	12.701	12.662	12.789	VV	556235	6263088	87.76%	4.717%
237	12.797	12.789	12.818	VV	533	7844	0.11%	0.006%
238	12.834	12.818	12.853	VV	665	9631	0.13%	0.007%
239	12.882	12.853	12.938	VV	6827	94205	1.32%	0.071%
240	12.999	12.938	13.026	VV	539333	6078214	85.16%	4.578%
241	13.076	13.026	13.112	VV	77416	990980	13.89%	0.746%
242	13.126	13.112	13.162	VV	871	22161	0.31%	0.017%
243	13.169	13.162	13.199	VV	735	14113	0.20%	0.011%
244	13.241	13.199	13.273	VV	44275	537543	7.53%	0.405%
245	13.295	13.273	13.327	VV	4520	63066	0.88%	0.047%
246	13.360	13.327	13.372	VV	693	13625	0.19%	0.010%

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247	13.393	13.372	13.407	VV	770	11496	0.16%	0.009%
248	13.417	13.407	13.435	VV	797	12072	0.17%	0.009%
249	13.469	13.435	13.565	VV	9242	204728	2.87%	0.154%
250	13.576	13.565	13.610	VV	1276	27542	0.39%	0.021%
251	13.618	13.610	13.628	VV	980	10198	0.14%	0.008%
252	13.646	13.628	13.665	VV	1230	21800	0.31%	0.016%
253	13.695	13.665	13.722	VV	1093	30610	0.43%	0.023%
254	13.742	13.722	13.750	VV	800	12043	0.17%	0.009%
255	13.777	13.750	13.798	VV	3361	51124	0.72%	0.039%
256	13.826	13.798	13.880	VV	42985	547530	7.67%	0.412%
257	13.882	13.880	13.907	VV	735	8837	0.12%	0.007%
258	13.913	13.907	13.944	VV	617	11076	0.16%	0.008%
259	13.952	13.944	13.987	VV	649	11331	0.16%	0.009%
260	13.993	13.987	14.011	VV	464	5940	0.08%	0.004%
261	14.027	14.011	14.054	VV	520	11192	0.16%	0.008%
262	14.072	14.054	14.085	VV	510	8933	0.13%	0.007%
263	14.123	14.085	14.140	VV	585	14659	0.21%	0.011%
264	14.217	14.140	14.238	VV	1370	37762	0.53%	0.028%
265	14.261	14.238	14.291	VV	1781	33549	0.47%	0.025%
266	14.302	14.291	14.311	VV	735	7678	0.11%	0.006%
267	14.324	14.311	14.334	VV	736	8606	0.12%	0.006%
268	14.386	14.334	14.403	VV	861	27037	0.38%	0.020%
269	14.423	14.403	14.437	VV	827	12432	0.17%	0.009%
270	14.490	14.437	14.524	VV	1100	41464	0.58%	0.031%
271	14.554	14.524	14.585	VV	1157	31256	0.44%	0.024%
272	14.594	14.585	14.624	VV	784	14381	0.20%	0.011%
273	14.677	14.624	14.692	VV	677	23112	0.32%	0.017%
274	14.708	14.692	14.725	VV	854	14142	0.20%	0.011%
275	14.738	14.725	14.750	VV	856	11962	0.17%	0.009%
276	14.766	14.750	14.818	VV	1360	32469	0.45%	0.024%
277	14.871	14.818	14.890	VV	446411	5623662	78.80%	4.236%
278	14.915	14.890	14.955	VV	481318	5915506	82.88%	4.455%
279	14.971	14.955	15.040	VV	3752	75377	1.06%	0.057%
280	15.059	15.040	15.074	VV	758	12314	0.17%	0.009%
281	15.097	15.074	15.135	VV	916	24669	0.35%	0.019%
282	15.155	15.135	15.176	VV	935	17516	0.25%	0.013%
283	15.214	15.176	15.258	VV	893	31154	0.44%	0.023%
284	15.301	15.258	15.378	VV	25158	363928	5.10%	0.274%
285	15.401	15.378	15.427	VV	2212	37301	0.52%	0.028%
286	15.462	15.427	15.486	VV	2173	46515	0.65%	0.035%
287	15.499	15.486	15.552	VV	930	31124	0.44%	0.023%
288	15.577	15.552	15.625	VV	1764	40131	0.56%	0.030%
289	15.662	15.625	15.701	VV	1087	34796	0.49%	0.026%
290	15.723	15.701	15.742	VV	857	18185	0.25%	0.014%
291	15.773	15.742	15.797	VV	1831	36943	0.52%	0.028%
292	15.820	15.797	15.855	VV	1741	41884	0.59%	0.032%
293	15.866	15.855	15.875	VV	887	9442	0.13%	0.007%
294	15.907	15.875	15.917	VV	1477	26554	0.37%	0.020%
295	15.946	15.917	15.980	VV	37777	497690	6.97%	0.375%
296	16.006	15.980	16.036	VV	2919	48660	0.68%	0.037%
297	16.112	16.036	16.129	VV	1054	33984	0.48%	0.026%
298	16.149	16.129	16.187	VV	1178	29741	0.42%	0.022%
299	16.203	16.187	16.228	VV	842	16629	0.23%	0.013%

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300	16.236	16.228	16.265	VV	673	13041	0.18%	0.010%
301	16.311	16.265	16.362	VV	10995	186303	2.61%	0.140%
302	16.423	16.362	16.438	VV	387799	5614793	78.67%	4.229%
303	16.458	16.438	16.487	VV	458007	5422995	75.98%	4.084%
304	16.507	16.487	16.532	VV	2590	49679	0.70%	0.037%
305	16.558	16.532	16.587	VV	2637	56225	0.79%	0.042%
306	16.599	16.587	16.617	VV	1331	21377	0.30%	0.016%
307	16.622	16.617	16.634	VV	1192	11731	0.16%	0.009%
308	16.666	16.634	16.696	VV	3354	67269	0.94%	0.051%
309	16.732	16.696	16.753	VV	1444	43439	0.61%	0.033%
310	16.803	16.753	16.835	VV	410859	5306290	74.35%	3.997%
311	16.891	16.835	16.927	VV	43151	619081	8.67%	0.466%
312	16.966	16.927	16.999	VV	3351	90055	1.26%	0.068%
313	17.009	16.999	17.023	VV	1267	17636	0.25%	0.013%
314	17.034	17.023	17.066	VV	1441	30473	0.43%	0.023%
315	17.080	17.066	17.090	VV	1163	16039	0.22%	0.012%
316	17.096	17.090	17.107	VV	1073	11187	0.16%	0.008%
317	17.126	17.107	17.143	VV	1459	26952	0.38%	0.020%
318	17.148	17.143	17.163	VV	1272	14341	0.20%	0.011%
319	17.170	17.163	17.219	VV	1241	38760	0.54%	0.029%
320	17.252	17.219	17.313	VV	6221	155744	2.18%	0.117%
321	17.339	17.313	17.391	VV	3581	100367	1.41%	0.076%
322	17.423	17.391	17.472	VV	1803	71790	1.01%	0.054%
323	17.525	17.472	17.535	PV	1363	44955	0.63%	0.034%
324	17.556	17.535	17.609	VV	1547	61312	0.86%	0.046%
325	17.671	17.609	17.685	VV	1709	60025	0.84%	0.045%
326	17.710	17.685	17.726	VV	1640	37273	0.52%	0.028%
327	17.777	17.726	17.813	VV	34386	514710	7.21%	0.388%
328	17.822	17.813	17.831	VV	1180	10989	0.15%	0.008%
329	17.865	17.831	17.893	VV	3733	71997	1.01%	0.054%
330	17.916	17.893	17.935	VV	1115	24717	0.35%	0.019%
331	17.960	17.935	17.972	VV	1009	19866	0.28%	0.015%
332	18.002	17.972	18.027	VV	1542	37453	0.52%	0.028%
333	18.043	18.027	18.085	VV	1140	30602	0.43%	0.023%
334	18.170	18.085	18.185	VV	383496	5767377	80.81%	4.344%
335	18.208	18.185	18.248	VV	381698	5024835	70.41%	3.785%
336	18.260	18.248	18.271	VV	1255	15067	0.21%	0.011%
337	18.291	18.271	18.310	VV	1518	28604	0.40%	0.022%
338	18.335	18.310	18.371	VV	6452	92103	1.29%	0.069%
339	18.426	18.371	18.482	VV	387562	5301345	74.28%	3.993%
340	18.507	18.482	18.533	VV	3246	57138	0.80%	0.043%
341	18.550	18.533	18.568	VV	1074	19629	0.28%	0.015%
342	18.606	18.568	18.675	VV	31640	477711	6.69%	0.360%
343	18.704	18.675	18.735	VV	3735	60728	0.85%	0.046%
344	18.747	18.735	18.814	VV	1021	30001	0.42%	0.023%
345	18.820	18.814	18.842	VV	437	3306	0.05%	0.002%
346	18.894	18.842	18.921	PV	3395	54337	0.76%	0.041%
347	18.956	18.921	18.986	PV	9124	146901	2.06%	0.111%

Sum of corrected areas: 132772043

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

Manual Integration Report

Sequence:	FC040925AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FC050225AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC068748.D	n-Octatriacontane (C38)	yogesh	5/5/2025 11:56:48 AM	mohammad	5/6/2025 4:46:17	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FC050625AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FC050825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC068808.D	n-Octatriacontane (C38)	yogesh	5/9/2025 10:13:29 AM	mohammad	5/12/2025 1:56:48	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD050125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FD050225AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167840BS	FD049311.D	Bnezo[k]fluoranthene (C30.14)	yogesh	5/6/2025 2:52:59 PM	mohammad	5/7/2025 6:08:18	Peak Integrated by Software
PB167840BS	FD049311.D	Dibenz[a,h]anthracene (C30.36)	yogesh	5/6/2025 2:52:59 PM	mohammad	5/7/2025 6:08:18	Peak Integrated by Software
PB167840BSD	FD049312.D	Bnezo[k]fluoranthene (C30.14)	yogesh	5/6/2025 2:52:56 PM	mohammad	5/7/2025 6:08:18	Peak Integrated by Software
PB167840BSD	FD049312.D	Dibenz[a,h]anthracene (C30.36)	yogesh	5/6/2025 2:52:56 PM	mohammad	5/7/2025 6:08:18	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD050825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167903BS	FD049320.D	Bnezo[k]fluoranthene (C30.14)	yogesh	5/9/2025 10:42:13 AM	mohammad	5/12/2025 1:56:54	Peak Integrated by Software
PB167903BSD	FD049321.D	Bnezo[k]fluoranthene (C30.14)	yogesh	5/9/2025 10:42:15 AM	mohammad	5/12/2025 1:56:54	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM		
SubDirectory	FC040925AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068513.D	08 Apr 2025 13:05	YP/AJ	Ok
2	I.BLK	FC068514.D	08 Apr 2025 13:42	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068515.D	08 Apr 2025 14:19	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068516.D	08 Apr 2025 14:56	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068517.D	08 Apr 2025 15:34	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068518.D	08 Apr 2025 16:12	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068519.D	08 Apr 2025 16:48	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068520.D	08 Apr 2025 17:26	YP/AJ	Ok
9	I.BLK	FC068521.D	08 Apr 2025 18:41	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068522.D	08 Apr 2025 19:18	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050225AL

Review By	yogesh	Review On	5/2/2025 10:00:15 AM		
Supervise By	mohammad	Supervise On	5/6/2025 4:46:28 AM		
SubDirectory	FC050225AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068740.D	02 May 2025 09:42	YP/AJ	Ok
2	I.BLK	FC068741.D	02 May 2025 10:17	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068742.D	02 May 2025 10:53	YP/AJ	Ok
4	PB167840BL	FC068743.D	02 May 2025 11:36	YP/AJ	Ok
5	PB167840BS	FC068744.D	02 May 2025 13:26	YP/AJ	Ok
6	PB167840BSD	FC068745.D	02 May 2025 14:03	YP/AJ	Ok
7	Q1901-06	FC068746.D	02 May 2025 14:40	YP/AJ	Ok
8	I.BLK	FC068747.D	02 May 2025 15:18	YP/AJ	Ok
9	20 PPM ALIPHATIC HC STD	FC068748.D	02 May 2025 15:56	YP/AJ	Ok,M
10	PB167833BL	FC068749.D	02 May 2025 16:33	YP/AJ	Ok
11	PB167833BS	FC068750.D	02 May 2025 17:11	YP/AJ	Ok
12	PB167833BSD	FC068751.D	02 May 2025 17:49	YP/AJ	Ok
13	Q1928-01	FC068752.D	02 May 2025 18:27	YP/AJ	Ok
14	Q1928-01D	FC068753.D	02 May 2025 19:05	YP/AJ	Ok
15	Q1928-01MS	FC068754.D	02 May 2025 19:42	YP/AJ	Ok
16	Q1928-01MSD	FC068755.D	02 May 2025 20:19	YP/AJ	Ok
17	Q1928-02	FC068756.D	02 May 2025 20:57	YP/AJ	ReRun
18	I.BLK	FC068757.D	02 May 2025 22:11	YP/AJ	Ok
19	20 PPM ALIPHATIC HC STD	FC068758.D	02 May 2025 22:47	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050625AL

Review By	yogesh	Review On	5/6/2025 2:50:27 PM		
Supervise By	mohammad	Supervise On	5/8/2025 2:15:32 AM		
SubDirectory	FC050625AL	HP Acquire Method		HP Processing Method	FC050625AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068779.D	06 May 2025 14:18	YP/AJ	Ok
2	I.BLK	FC068780.D	06 May 2025 14:55	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068781.D	06 May 2025 15:33	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068782.D	06 May 2025 16:11	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068783.D	06 May 2025 16:48	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068784.D	06 May 2025 17:26	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068785.D	06 May 2025 18:03	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068786.D	06 May 2025 18:40	YP/AJ	Ok
9	I.BLK	FC068787.D	06 May 2025 19:55	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068788.D	06 May 2025 20:33	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050825AL

Review By	yogesh	Review On	5/8/2025 12:22:05 PM		
Supervise By	mohammad	Supervise On	5/12/2025 1:56:48 AM		
SubDirectory	FC050825AL	HP Acquire Method		HP Processing Method	FC050625AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068789.D	08 May 2025 08:53	YP/AJ	Ok
2	I.BLK	FC068790.D	08 May 2025 09:30	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068791.D	08 May 2025 10:08	YP/AJ	Ok
4	PB167903BL	FC068792.D	08 May 2025 12:24	YP/AJ	Ok
5	PB167903BS	FC068793.D	08 May 2025 13:01	YP/AJ	Ok
6	PB167903BSD	FC068794.D	08 May 2025 13:38	YP/AJ	Ok
7	Q1872-16	FC068795.D	08 May 2025 14:20	YP/AJ	Dilution
8	Q1872-16DL	FC068796.D	08 May 2025 15:19	YP/AJ	Dilution
9	Q1872-16DL2	FC068797.D	08 May 2025 15:57	YP/AJ	Ok
10	I.BLK	FC068798.D	08 May 2025 16:36	YP/AJ	Ok
11	20 PPM ALIPHATIC HC STD	FC068799.D	08 May 2025 17:14	YP/AJ	Ok
12	Q1901-02	FC068800.D	08 May 2025 18:31	YP/AJ	Ok
13	Q1901-03	FC068801.D	08 May 2025 19:09	YP/AJ	Ok
14	Q1901-04	FC068802.D	08 May 2025 19:47	YP/AJ	Ok
15	Q1901-04D	FC068803.D	08 May 2025 20:25	YP/AJ	Ok
16	Q1901-04MS	FC068804.D	08 May 2025 21:04	YP/AJ	Ok
17	Q1901-04MSD	FC068805.D	08 May 2025 21:41	YP/AJ	Ok
18	Q1901-05	FC068806.D	08 May 2025 22:19	YP/AJ	Ok
19	I.BLK	FC068807.D	08 May 2025 22:56	YP/AJ	Ok
20	20 PPM ALIPHATIC HC STD	FC068808.D	08 May 2025 23:34	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050125AR

Review By	yogesh	Review On	5/1/2025 11:47:04 AM		
Supervise By	mohammad	Supervise On	5/5/2025 4:36:32 AM		
SubDirectory	FD050125AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049296.D	01 May 2025 09:18	YP/AJ	Ok
2	I.BLK	FD049297.D	01 May 2025 09:54	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049298.D	01 May 2025 10:30	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049299.D	01 May 2025 11:07	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049300.D	01 May 2025 11:42	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049301.D	01 May 2025 12:18	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049302.D	01 May 2025 12:55	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049303.D	01 May 2025 13:31	YP/AJ	Ok
9	I.BLK	FD049304.D	01 May 2025 14:07	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049305.D	01 May 2025 14:44	YP/AJ	Ok
11	PP24499	FD049306.D	01 May 2025 15:20	YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050225AR

Review By	yogesh	Review On	5/2/2025 10:02:01 AM		
Supervise By	mohammad	Supervise On	5/7/2025 6:08:18 AM		
SubDirectory	FD050225AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049307.D	02 May 2025 09:42	YP/AJ	Ok
2	I.BLK	FD049308.D	02 May 2025 10:17	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049309.D	02 May 2025 10:53	YP/AJ	Ok
4	PB167840BL	FD049310.D	02 May 2025 11:36	YP/AJ	Ok
5	PB167840BS	FD049311.D	02 May 2025 13:26	YP/AJ	Ok,M
6	PB167840BSD	FD049312.D	02 May 2025 14:03	YP/AJ	Ok,M
7	Q1901-06	FD049313.D	02 May 2025 14:40	YP/AJ	Ok
8	I.BLK	FD049314.D	02 May 2025 15:18	YP/AJ	Ok
9	20 PPM AROMATIC HC STD	FD049315.D	02 May 2025 15:56	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050825AR

Review By	yogesh	Review On	5/8/2025 12:23:41 PM		
Supervise By	mohammad	Supervise On	5/12/2025 1:56:54 AM		
SubDirectory	FD050825AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049316.D	08 May 2025 08:53	YP/AJ	Ok
2	I.BLK	FD049317.D	08 May 2025 09:30	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049318.D	08 May 2025 10:08	YP/AJ	Ok
4	PB167903BL	FD049319.D	08 May 2025 12:24	YP/AJ	Ok
5	PB167903BS	FD049320.D	08 May 2025 13:01	YP/AJ	Ok,M
6	PB167903BSD	FD049321.D	08 May 2025 13:38	YP/AJ	Ok,M
7	Q1872-16	FD049322.D	08 May 2025 14:20	YP/AJ	Ok
8	Q1872-16DL	FD049323.D	08 May 2025 15:19	YP/AJ	Not Ok
9	I.BLK	FD049324.D	08 May 2025 15:57	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049325.D	08 May 2025 16:36	YP/AJ	Ok
11	Q1901-02	FD049326.D	08 May 2025 17:53	YP/AJ	Ok
12	Q1901-03	FD049327.D	08 May 2025 18:31	YP/AJ	Ok
13	Q1901-04	FD049328.D	08 May 2025 19:09	YP/AJ	Ok
14	Q1901-04D	FD049329.D	08 May 2025 19:47	YP/AJ	Ok
15	Q1901-04MS	FD049330.D	08 May 2025 20:25	YP/AJ	Ok
16	Q1901-04MSD	FD049331.D	08 May 2025 21:04	YP/AJ	Ok
17	Q1901-05	FD049332.D	08 May 2025 21:41	YP/AJ	Ok
18	I.BLK	FD049333.D	08 May 2025 22:56	YP/AJ	Ok
19	20 PPM AROMATIC HC STD	FD049334.D	08 May 2025 23:34	YP/AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM		
SubDirectory	FC040925AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068513.D	08 Apr 2025 13:05		YP/AJ	Ok
2	I.BLK	I.BLK	FC068514.D	08 Apr 2025 13:42		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068515.D	08 Apr 2025 14:19		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068516.D	08 Apr 2025 14:56		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068517.D	08 Apr 2025 15:34		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068518.D	08 Apr 2025 16:12		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068519.D	08 Apr 2025 16:48		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068520.D	08 Apr 2025 17:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068521.D	08 Apr 2025 18:41		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068522.D	08 Apr 2025 19:18		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050225AL

Review By	yogesh	Review On	5/2/2025 10:00:15 AM		
Supervise By	mohammad	Supervise On	5/6/2025 4:46:28 AM		
SubDirectory	FC050225AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068740.D	02 May 2025 09:42		YP/AJ	Ok
2	I.BLK	I.BLK	FC068741.D	02 May 2025 10:17		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068742.D	02 May 2025 10:53		YP/AJ	Ok
4	PB167840BL	PB167840BL	FC068743.D	02 May 2025 11:36		YP/AJ	Ok
5	PB167840BS	PB167840BS	FC068744.D	02 May 2025 13:26	naphthalene break down - 0.194, 2-methylnephthalene break down - 0.352	YP/AJ	Ok
6	PB167840BSD	PB167840BSD	FC068745.D	02 May 2025 14:03	naphthalene break down - 0.194, 2-methylnephthalene break down - 0.331	YP/AJ	Ok
7	Q1901-06	FB04262025	FC068746.D	02 May 2025 14:40		YP/AJ	Ok
8	I.BLK	I.BLK	FC068747.D	02 May 2025 15:18		YP/AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068748.D	02 May 2025 15:56		YP/AJ	Ok,M
10	PB167833BL	PB167833BL	FC068749.D	02 May 2025 16:33		YP/AJ	Ok
11	PB167833BS	PB167833BS	FC068750.D	02 May 2025 17:11		YP/AJ	Ok
12	PB167833BSD	PB167833BSD	FC068751.D	02 May 2025 17:49		YP/AJ	Ok
13	Q1928-01	MH-Q	FC068752.D	02 May 2025 18:27		YP/AJ	Ok
14	Q1928-01D	Q1928-01D	FC068753.D	02 May 2025 19:05		YP/AJ	Ok
15	Q1928-01MS	MH-QMS	FC068754.D	02 May 2025 19:42	FC068752.D	YP/AJ	Ok
16	Q1928-01MSD	MH-QMSD	FC068755.D	02 May 2025 20:19	FC068752.D!FC068754.D	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050225AL

Review By	yogesh	Review On	5/2/2025 10:00:15 AM		
Supervise By	mohammad	Supervise On	5/6/2025 4:46:28 AM		
SubDirectory	FC050225AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1928-02	MH-Q-EPH	FC068756.D	02 May 2025 20:57	Surrogate Fail	YP/AJ	ReRun
18	I.BLK	I.BLK	FC068757.D	02 May 2025 22:11		YP/AJ	Ok
19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068758.D	02 May 2025 22:47		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050625AL

Review By	yogesh	Review On	5/6/2025 2:50:27 PM		
Supervise By	mohammad	Supervise On	5/8/2025 2:15:32 AM		
SubDirectory	FC050625AL	HP Acquire Method		HP Processing Method	FC050625AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068779.D	06 May 2025 14:18		YP/AJ	Ok
2	I.BLK	I.BLK	FC068780.D	06 May 2025 14:55		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068781.D	06 May 2025 15:33		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068782.D	06 May 2025 16:11		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068783.D	06 May 2025 16:48		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068784.D	06 May 2025 17:26		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068785.D	06 May 2025 18:03		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068786.D	06 May 2025 18:40		YP/AJ	Ok
9	I.BLK	I.BLK	FC068787.D	06 May 2025 19:55		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068788.D	06 May 2025 20:33		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050825AL

Review By	yogesh	Review On	5/8/2025 12:22:05 PM		
Supervise By	mohammad	Supervise On	5/12/2025 1:56:48 AM		
SubDirectory	FC050825AL	HP Acquire Method		HP Processing Method	FC050625AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068789.D	08 May 2025 08:53		YP/AJ	Ok
2	I.BLK	I.BLK	FC068790.D	08 May 2025 09:30		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068791.D	08 May 2025 10:08		YP/AJ	Ok
4	PB167903BL	PB167903BL	FC068792.D	08 May 2025 12:24		YP/AJ	Ok
5	PB167903BS	PB167903BS	FC068793.D	08 May 2025 13:01	naphthalene break down - 0.247, 2-methylnephthalene break down - 0.300	YP/AJ	Ok
6	PB167903BSD	PB167903BSD	FC068794.D	08 May 2025 13:38	naphthalene break down - 0.195, 2-methylnephthalene break down - 0.321	YP/AJ	Ok
7	Q1872-16	HW0425-PT-NJEPH-SC	FC068795.D	08 May 2025 14:20	Need 5X,10X	YP/AJ	Dilution
8	Q1872-16DL	HW0425-PT-NJEPH-SC	FC068796.D	08 May 2025 15:19	need further dilution	YP/AJ	Dilution
9	Q1872-16DL2	HW0425-PT-NJEPH-SC	FC068797.D	08 May 2025 15:57		YP/AJ	Ok
10	I.BLK	I.BLK	FC068798.D	08 May 2025 16:36		YP/AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068799.D	08 May 2025 17:14		YP/AJ	Ok
12	Q1901-02	B-167-SB01	FC068800.D	08 May 2025 18:31		YP/AJ	Ok
13	Q1901-03	B-170-SB01	FC068801.D	08 May 2025 19:09		YP/AJ	Ok
14	Q1901-04	B-167-SB02	FC068802.D	08 May 2025 19:47		YP/AJ	Ok
15	Q1901-04D	Q1901-04D	FC068803.D	08 May 2025 20:25		YP/AJ	Ok
16	Q1901-04MS	B-167-SB02MS	FC068804.D	08 May 2025 21:04	FC068802.D	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC050825AL

Review By	yogesh	Review On	5/8/2025 12:22:05 PM		
Supervise By	mohammad	Supervise On	5/12/2025 1:56:48 AM		
SubDirectory	FC050825AL	HP Acquire Method		HP Processing Method	FC050625AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1901-04MSD	B-167-SB02MSD	FC068805.D	08 May 2025 21:41	FC068802.D!FC068804.D	YP/AJ	Ok
18	Q1901-05	B-170-SB02	FC068806.D	08 May 2025 22:19		YP/AJ	Ok
19	I.BLK	I.BLK	FC068807.D	08 May 2025 22:56		YP/AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068808.D	08 May 2025 23:34		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050125AR

Review By	yogesh	Review On	5/1/2025 11:47:04 AM		
Supervise By	mohammad	Supervise On	5/5/2025 4:36:32 AM		
SubDirectory	FD050125AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049296.D	01 May 2025 09:18		YP/AJ	Ok
2	I.BLK	I.BLK	FD049297.D	01 May 2025 09:54		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049298.D	01 May 2025 10:30		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049299.D	01 May 2025 11:07		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049300.D	01 May 2025 11:42		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049301.D	01 May 2025 12:18		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049302.D	01 May 2025 12:55		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049303.D	01 May 2025 13:31		YP/AJ	Ok
9	I.BLK	I.BLK	FD049304.D	01 May 2025 14:07		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049305.D	01 May 2025 14:44		YP/AJ	Ok
11	PP24499	PP24499	FD049306.D	01 May 2025 15:20		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050225AR

Review By	yogesh	Review On	5/2/2025 10:02:01 AM		
Supervise By	mohammad	Supervise On	5/7/2025 6:08:18 AM		
SubDirectory	FD050225AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049307.D	02 May 2025 09:42		YP/AJ	Ok
2	I.BLK	I.BLK	FD049308.D	02 May 2025 10:17		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049309.D	02 May 2025 10:53		YP/AJ	Ok
4	PB167840BL	PB167840BL	FD049310.D	02 May 2025 11:36		YP/AJ	Ok
5	PB167840BS	PB167840BS	FD049311.D	02 May 2025 13:26	naphthalene break down - 0.194, 2-methylnephthalene break down - 0.352	YP/AJ	Ok,M
6	PB167840BSD	PB167840BSD	FD049312.D	02 May 2025 14:03	naphthalene break down - 0.194, 2-methylnephthalene break down - 0.331	YP/AJ	Ok,M
7	Q1901-06	FB04262025	FD049313.D	02 May 2025 14:40		YP/AJ	Ok
8	I.BLK	I.BLK	FD049314.D	02 May 2025 15:18		YP/AJ	Ok
9	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049315.D	02 May 2025 15:56		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050825AR

Review By	yogesh	Review On	5/8/2025 12:23:41 PM		
Supervise By	mohammad	Supervise On	5/12/2025 1:56:54 AM		
SubDirectory	FD050825AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049316.D	08 May 2025 08:53		YP/AJ	Ok
2	I.BLK	I.BLK	FD049317.D	08 May 2025 09:30		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049318.D	08 May 2025 10:08		YP/AJ	Ok
4	PB167903BL	PB167903BL	FD049319.D	08 May 2025 12:24		YP/AJ	Ok
5	PB167903BS	PB167903BS	FD049320.D	08 May 2025 13:01	naphthalene break down - 0.247, 2-methylnephthalene break down - 0.300	YP/AJ	Ok,M
6	PB167903BSD	PB167903BSD	FD049321.D	08 May 2025 13:38	naphthalene break down - 0.195, 2-methylnephthalene break down - 0.321	YP/AJ	Ok,M
7	Q1872-16	HW0425-PT-NJEPH-SC	FD049322.D	08 May 2025 14:20		YP/AJ	Ok
8	Q1872-16DL	HW0425-PT-NJEPH-SC	FD049323.D	08 May 2025 15:19	not required	YP/AJ	Not Ok
9	I.BLK	I.BLK	FD049324.D	08 May 2025 15:57		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049325.D	08 May 2025 16:36		YP/AJ	Ok
11	Q1901-02	B-167-SB01	FD049326.D	08 May 2025 17:53		YP/AJ	Ok
12	Q1901-03	B-170-SB01	FD049327.D	08 May 2025 18:31		YP/AJ	Ok
13	Q1901-04	B-167-SB02	FD049328.D	08 May 2025 19:09		YP/AJ	Ok
14	Q1901-04D	Q1901-04D	FD049329.D	08 May 2025 19:47		YP/AJ	Ok
15	Q1901-04MS	B-167-SB02MS	FD049330.D	08 May 2025 20:25	FD049328.D	YP/AJ	Ok
16	Q1901-04MSD	B-167-SB02MSD	FD049331.D	08 May 2025 21:04	FD049328.D!FD049330.D	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD050825AR

Review By	yogesh	Review On	5/8/2025 12:23:41 PM		
Supervise By	mohammad	Supervise On	5/12/2025 1:56:54 AM		
SubDirectory	FD050825AR	HP Acquire Method		HP Processing Method	FD050125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1901-05	B-170-SB02	FD049332.D	08 May 2025 21:41		YP/AJ	Ok
18	I.BLK	I.BLK	FD049333.D	08 May 2025 22:56		YP/AJ	Ok
19	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049334.D	08 May 2025 23:34		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167840

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/01/2025
Matrix :	Water			**Extraction Start Time :**	09:40
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	05/01/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	16:10
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24462
Surrogate	1.0ML	100 PPM	PP24491
Fractionation Surrogate	1.0ML	100 PPM	PP24465
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2607
Hexane	N/A	E3928
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID:	WATER BATH-1	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/1/25	RS (Ext-Lab)	4-P-Pest-1
16:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167840

Analytical Method: MNJDEP-EPH-7

Concentration Date: 05/01/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167840BL	PB167840BL	EPH	1000	<2	RUPESH	Evelyn	2			SEP-1
PB167840BS	PB167840BS	EPH	1000	<2	RUPESH	Evelyn	2			2
PB167840BSD	PB167840BSD	EPH	1000	<2	RUPESH	Evelyn	2			3
Q1901-06	FB04262025	EPH	940	<2	RUPESH	Evelyn	2	J		4

* **Extracts relinquished on the same date as received.**

167838
9:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1901EPH **WorkList ID :** 189286 **Department :** Extraction **Date :** 05-01-2025 09:33:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1901-06	FB04262025	Water	EPH	1:1 HCl to pH < 2	PORT06	L51	04/26/2025	NJEPH

Date/Time 5/1/25 9:35
Raw Sample Received by: RS (ESC Lab)
Raw Sample Relinquished by:

Date/Time 5/1/25 9:55
Raw Sample Received by:
Raw Sample Relinquished by: RS (ESC Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167903

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/07/2025
Matrix :	Solid			**Extraction Start Time :**	13:37
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/08/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:40
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: [_] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24462
Surrogate	1.0ML	100 PPM	PP24491
Fractionation Surrogate	1.0ML	100 PPM	PP24499
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Hexane	N/A	E3933
Methylene Chloride	N/A	E3930
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210643.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/8/25	RS (Ext lab)	T-P-Pest 1 & 3.
11:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167903

Analytical Method: MNJDEP-EPH-7

Concentration Date: 05/08/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167903BL	PB167903BL	EPH	30.01	N/A	ritesh	Evelyn	2			U1-1
PB167903BS	PB167903BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB167903BSD	PB167903BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q1872-16	HW0425-PT-NJEPH-SOIL	EPH	20.02	N/A	ritesh	Evelyn	2			4
Q1901-02	B-167-SB01	EPH	30.08	N/A	ritesh	Evelyn	2	F		5
Q1901-03	B-170-SB01	EPH	30.05	N/A	ritesh	Evelyn	2	E		6
Q1901-04	B-167-SB02	EPH	30.02	N/A	ritesh	Evelyn	2	E		U2-1
Q1901-04DUP	B-167-SB02DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		2
Q1901-04MS	B-167-SB02MS	EPH	30.09	N/A	ritesh	Evelyn	2	E		3
Q1901-04MSD	B-167-SB02MSD	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1901-05	B-170-SB02	EPH	30.04	N/A	ritesh	Evelyn	2	E		5

RS
5/8

* **Extracts relinquished on the same date as received.**

167903
13:37

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1901 **WorkList ID :** 189385 **Department :** Extraction **Date :** 05-07-2025 13:31:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-16	HW0425-PT-NJEPH-SOIL	Solid	EPH	Cool 4 deg C	ALLI03	QA Of	04/21/2025	NJEPH
Q1901-02	B-167-SB01	Solid	EPH	Cool 4 deg C	PORT06	L51	04/26/2025	NJEPH
Q1901-03	B-170-SB01	Solid	EPH	Cool 4 deg C	PORT06	L51	04/26/2025	NJEPH
Q1901-04	B-167-SB02	Solid	EPH	Cool 4 deg C	PORT06	L51	04/26/2025	NJEPH
Q1901-05	B-170-SB02	Solid	EPH	Cool 4 deg C	PORT06	L51	04/26/2025	NJEPH

Date/Time 5/7/25 13:32
Raw Sample Received by: RJ (EXT lab)
Raw Sample Relinquished by:

Date/Time 5/7/25 14:00
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EXT lab)

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

LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
			TPH GC	8015D		04/29/25	04/29/25	
			EPH	NJEPH		05/07/25	05/08/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/30/25	04/30/25	
			TPH GC	8015D		04/29/25	04/29/25	
			EPH	NJEPH		05/07/25	05/08/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
			TPH GC	8015D		04/29/25	04/29/25	
			EPH	NJEPH		05/07/25	05/08/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			PCB	8082A		04/29/25	04/29/25	
			TPH GC	8015D		04/29/25	04/29/25	
			EPH	NJEPH		05/07/25	05/08/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			EPH	NJEPH		05/01/25	05/02/25	
			PCB	8082A		04/29/25	04/29/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/01/25	05/01/25	

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LAB CHRONICLE

Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**		**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25
			TCLP Pesticide	8081B		05/01/25	05/01/25
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**		**04/28/25**
			TCLP Herbicide	8151A		05/05/25	05/06/25
			TCLP Pesticide	8081B		05/01/25	05/01/25

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Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-167-SB01								
Q1901-02	B-167-SB01	SOIL	Aluminum	3600		0.90	5.36	mg/Kg
Q1901-02	B-167-SB01	SOIL	Arsenic	2.93		0.20	1.07	mg/Kg
Q1901-02	B-167-SB01	SOIL	Barium	90.5		0.78	5.36	mg/Kg
Q1901-02	B-167-SB01	SOIL	Beryllium	0.30	J	0.027	0.32	mg/Kg
Q1901-02	B-167-SB01	SOIL	Calcium	6590		11.9	107	mg/Kg
Q1901-02	B-167-SB01	SOIL	Chromium	13.3		0.050	0.54	mg/Kg
Q1901-02	B-167-SB01	SOIL	Cobalt	3.57		0.11	1.61	mg/Kg
Q1901-02	B-167-SB01	SOIL	Copper	29.1		0.24	1.07	mg/Kg
Q1901-02	B-167-SB01	SOIL	Iron	9760		4.27	5.36	mg/Kg
Q1901-02	B-167-SB01	SOIL	Lead	490		0.14	0.64	mg/Kg
Q1901-02	B-167-SB01	SOIL	Magnesium	1610		12.9	107	mg/Kg
Q1901-02	B-167-SB01	SOIL	Manganese	121		0.15	1.07	mg/Kg
Q1901-02	B-167-SB01	SOIL	Mercury	0.039		0.0090	0.016	mg/Kg
Q1901-02	B-167-SB01	SOIL	Nickel	11.4		0.14	2.14	mg/Kg
Q1901-02	B-167-SB01	SOIL	Potassium	592		29.7	107	mg/Kg
Q1901-02	B-167-SB01	SOIL	Silver	0.55		0.13	0.54	mg/Kg
Q1901-02	B-167-SB01	SOIL	Sodium	100	J	19.1	107	mg/Kg
Q1901-02	B-167-SB01	SOIL	Thallium	0.28	J	0.25	2.14	mg/Kg
Q1901-02	B-167-SB01	SOIL	Vanadium	12.8		0.27	2.14	mg/Kg
Q1901-02	B-167-SB01	SOIL	Zinc	69.7		0.25	2.14	mg/Kg
Client ID : B-170-SB01								
Q1901-03	B-170-SB01	SOIL	Aluminum	5350		0.91	5.43	mg/Kg
Q1901-03	B-170-SB01	SOIL	Arsenic	2.04		0.21	1.09	mg/Kg
Q1901-03	B-170-SB01	SOIL	Barium	55.0		0.79	5.43	mg/Kg
Q1901-03	B-170-SB01	SOIL	Beryllium	0.30	J	0.027	0.33	mg/Kg
Q1901-03	B-170-SB01	SOIL	Calcium	13000		12.0	109	mg/Kg
Q1901-03	B-170-SB01	SOIL	Chromium	12.2		0.051	0.54	mg/Kg
Q1901-03	B-170-SB01	SOIL	Cobalt	5.55		0.11	1.63	mg/Kg
Q1901-03	B-170-SB01	SOIL	Copper	45.2		0.24	1.09	mg/Kg
Q1901-03	B-170-SB01	SOIL	Iron	11300		4.33	5.43	mg/Kg
Q1901-03	B-170-SB01	SOIL	Lead	121		0.14	0.65	mg/Kg
Q1901-03	B-170-SB01	SOIL	Magnesium	3180		13.0	109	mg/Kg
Q1901-03	B-170-SB01	SOIL	Manganese	174		0.15	1.09	mg/Kg
Q1901-03	B-170-SB01	SOIL	Mercury	0.22		0.0080	0.015	mg/Kg
Q1901-03	B-170-SB01	SOIL	Nickel	13.9		0.14	2.17	mg/Kg
Q1901-03	B-170-SB01	SOIL	Potassium	1750		30.1	109	mg/Kg
Q1901-03	B-170-SB01	SOIL	Silver	0.22	J	0.13	0.54	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1901-03	B-170-SB01	SOIL	Sodium	187		19.3	109	mg/Kg
Q1901-03	B-170-SB01	SOIL	Vanadium	13.9		0.27	2.17	mg/Kg
Q1901-03	B-170-SB01	SOIL	Zinc	58.2		0.25	2.17	mg/Kg
Client ID :	**B-167-SB02**							
Q1901-04	B-167-SB02	SOIL	Aluminum	11100		1.42	8.47	mg/Kg
Q1901-04	B-167-SB02	SOIL	Arsenic	8.83		0.32	1.69	mg/Kg
Q1901-04	B-167-SB02	SOIL	Barium	20.3		1.24	8.47	mg/Kg
Q1901-04	B-167-SB02	SOIL	Beryllium	0.89		0.042	0.51	mg/Kg
Q1901-04	B-167-SB02	SOIL	Cadmium	0.69		0.041	0.51	mg/Kg
Q1901-04	B-167-SB02	SOIL	Calcium	1510		18.8	169	mg/Kg
Q1901-04	B-167-SB02	SOIL	Chromium	28.8		0.080	0.85	mg/Kg
Q1901-04	B-167-SB02	SOIL	Cobalt	11.5		0.17	2.54	mg/Kg
Q1901-04	B-167-SB02	SOIL	Copper	16.5		0.37	1.69	mg/Kg
Q1901-04	B-167-SB02	SOIL	Iron	28100		6.76	8.47	mg/Kg
Q1901-04	B-167-SB02	SOIL	Lead	17.3		0.22	1.02	mg/Kg
Q1901-04	B-167-SB02	SOIL	Magnesium	4900		20.3	169	mg/Kg
Q1901-04	B-167-SB02	SOIL	Manganese	195		0.24	1.69	mg/Kg
Q1901-04	B-167-SB02	SOIL	Mercury	0.076		0.014	0.024	mg/Kg
Q1901-04	B-167-SB02	SOIL	Nickel	24.5		0.22	3.39	mg/Kg
Q1901-04	B-167-SB02	SOIL	Potassium	1870		46.9	169	mg/Kg
Q1901-04	B-167-SB02	SOIL	Sodium	1140		30.1	169	mg/Kg
Q1901-04	B-167-SB02	SOIL	Thallium	1.15	J	0.39	3.39	mg/Kg
Q1901-04	B-167-SB02	SOIL	Vanadium	34.8		0.42	3.39	mg/Kg
Q1901-04	B-167-SB02	SOIL	Zinc	61.9		0.39	3.39	mg/Kg
Client ID :	**B-170-SB02**							
Q1901-05	B-170-SB02	SOIL	Aluminum	8500		0.92	5.50	mg/Kg
Q1901-05	B-170-SB02	SOIL	Arsenic	1.07	J	0.21	1.10	mg/Kg
Q1901-05	B-170-SB02	SOIL	Barium	4.05	J	0.80	5.50	mg/Kg
Q1901-05	B-170-SB02	SOIL	Beryllium	0.18	J	0.028	0.33	mg/Kg
Q1901-05	B-170-SB02	SOIL	Calcium	959		12.2	110	mg/Kg
Q1901-05	B-170-SB02	SOIL	Chromium	8.86		0.052	0.55	mg/Kg
Q1901-05	B-170-SB02	SOIL	Cobalt	2.02		0.11	1.65	mg/Kg
Q1901-05	B-170-SB02	SOIL	Copper	2.71		0.24	1.10	mg/Kg
Q1901-05	B-170-SB02	SOIL	Iron	6400		4.39	5.50	mg/Kg
Q1901-05	B-170-SB02	SOIL	Lead	3.70		0.14	0.66	mg/Kg
Q1901-05	B-170-SB02	SOIL	Magnesium	1400		13.2	110	mg/Kg
Q1901-05	B-170-SB02	SOIL	Manganese	41.6		0.15	1.10	mg/Kg
Q1901-05	B-170-SB02	SOIL	Mercury	0.018		0.0090	0.016	mg/Kg
Q1901-05	B-170-SB02	SOIL	Nickel	6.18		0.14	2.20	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1901-05	B-170-SB02	SOIL	Potassium	365		30.5	110	mg/Kg
Q1901-05	B-170-SB02	SOIL	Selenium	0.38	J	0.29	1.10	mg/Kg
Q1901-05	B-170-SB02	SOIL	Sodium	469		19.6	110	mg/Kg
Q1901-05	B-170-SB02	SOIL	Vanadium	10.8		0.28	2.20	mg/Kg
Q1901-05	B-170-SB02	SOIL	Zinc	9.64		0.25	2.20	mg/Kg
Client ID :	**FB04262025**							
Q1901-06	FB04262025	Water	Aluminum	6.11	J	5.67	50.0	ug/L
Q1901-06	FB04262025	Water	Manganese	6.66	J	2.97	10.0	ug/L



SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3600	*	1	0.90	5.36	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.68	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-38-2	Arsenic	2.93		1	0.20	1.07	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-39-3	Barium	90.5		1	0.78	5.36	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-41-7	Beryllium	0.30	J*	1	0.027	0.32	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-70-2	Calcium	6590		1	11.9	107	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-47-3	Chromium	13.3		1	0.050	0.54	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-48-4	Cobalt	3.57		1	0.11	1.61	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-50-8	Copper	29.1	*	1	0.24	1.07	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7439-89-6	Iron	9760		1	4.27	5.36	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7439-92-1	Lead	490	*	1	0.14	0.64	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7439-95-4	Magnesium	1610	*	1	12.9	107	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7439-96-5	Manganese	121		1	0.15	1.07	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7439-97-6	Mercury	0.039		1	0.0090	0.016	mg/Kg	04/29/25 15:15	04/30/25 13:59	SW7471B	
7440-02-0	Nickel	11.4		1	0.14	2.14	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-09-7	Potassium	592		1	29.7	107	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.07	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-22-4	Silver	0.55		1	0.13	0.54	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-23-5	Sodium	100	J	1	19.1	107	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-28-0	Thallium	0.28	J	1	0.25	2.14	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-62-2	Vanadium	12.8		1	0.27	2.14	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050
7440-66-6	Zinc	69.7	*	1	0.25	2.14	mg/Kg	04/29/25 10:50	04/30/25 21:21	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	83

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5350	*	1	0.91	5.43	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.71	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-38-2	Arsenic	2.04		1	0.21	1.09	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-39-3	Barium	55.0		1	0.79	5.43	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-41-7	Beryllium	0.30	J*	1	0.027	0.33	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.33	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-70-2	Calcium	13000		1	12.0	109	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-47-3	Chromium	12.2		1	0.051	0.54	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-48-4	Cobalt	5.55		1	0.11	1.63	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-50-8	Copper	45.2	*	1	0.24	1.09	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7439-89-6	Iron	11300		1	4.33	5.43	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7439-92-1	Lead	121	*	1	0.14	0.65	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7439-95-4	Magnesium	3180	*	1	13.0	109	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7439-96-5	Manganese	174		1	0.15	1.09	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7439-97-6	Mercury	0.22		1	0.0080	0.015	mg/Kg	04/29/25 15:15	04/30/25 14:08	SW7471B	
7440-02-0	Nickel	13.9		1	0.14	2.17	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-09-7	Potassium	1750		1	30.1	109	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.09	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-22-4	Silver	0.22	J	1	0.13	0.54	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-23-5	Sodium	187		1	19.3	109	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.17	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-62-2	Vanadium	13.9		1	0.27	2.17	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050
7440-66-6	Zinc	58.2	*	1	0.25	2.17	mg/Kg	04/29/25 10:50	04/30/25 21:25	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	53.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11100	*	1	1.42	8.47	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-36-0	Antimony	0.37	UN	1	0.37	4.23	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-38-2	Arsenic	8.83		1	0.32	1.69	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-39-3	Barium	20.3		1	1.24	8.47	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-41-7	Beryllium	0.89	*	1	0.042	0.51	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-43-9	Cadmium	0.69		1	0.041	0.51	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-70-2	Calcium	1510		1	18.8	169	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-47-3	Chromium	28.8		1	0.080	0.85	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-48-4	Cobalt	11.5		1	0.17	2.54	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-50-8	Copper	16.5	*	1	0.37	1.69	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7439-89-6	Iron	28100		1	6.76	8.47	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7439-92-1	Lead	17.3	*	1	0.22	1.02	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7439-95-4	Magnesium	4900	*	1	20.3	169	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7439-96-5	Manganese	195		1	0.24	1.69	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7439-97-6	Mercury	0.076		1	0.014	0.024	mg/Kg	04/29/25 15:15	04/30/25 14:15	SW7471B	
7440-02-0	Nickel	24.5		1	0.22	3.39	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-09-7	Potassium	1870		1	46.9	169	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7782-49-2	Selenium	0.44	U	1	0.44	1.69	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-22-4	Silver	0.20	U	1	0.20	0.85	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-23-5	Sodium	1140		1	30.1	169	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-28-0	Thallium	1.15	J	1	0.39	3.39	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-62-2	Vanadium	34.8		1	0.42	3.39	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050
7440-66-6	Zinc	61.9	*	1	0.39	3.39	mg/Kg	04/29/25 10:50	04/30/25 21:29	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	75.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8500	*	1	0.92	5.50	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.75	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-38-2	Arsenic	1.07	J	1	0.21	1.10	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-39-3	Barium	4.05	J	1	0.80	5.50	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-41-7	Beryllium	0.18	J*	1	0.028	0.33	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.33	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-70-2	Calcium	959		1	12.2	110	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-47-3	Chromium	8.86		1	0.052	0.55	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-48-4	Cobalt	2.02		1	0.11	1.65	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-50-8	Copper	2.71	*	1	0.24	1.10	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7439-89-6	Iron	6400		1	4.39	5.50	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7439-92-1	Lead	3.70	*	1	0.14	0.66	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7439-95-4	Magnesium	1400	*	1	13.2	110	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7439-96-5	Manganese	41.6		1	0.15	1.10	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7439-97-6	Mercury	0.018		1	0.0090	0.016	mg/Kg	04/29/25 15:15	04/30/25 14:17	SW7471B	
7440-02-0	Nickel	6.18		1	0.14	2.20	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-09-7	Potassium	365		1	30.5	110	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7782-49-2	Selenium	0.38	J	1	0.29	1.10	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.55	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-23-5	Sodium	469		1	19.6	110	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.20	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-62-2	Vanadium	10.8		1	0.28	2.20	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050
7440-66-6	Zinc	9.64	*	1	0.25	2.20	mg/Kg	04/29/25 10:50	04/30/25 21:33	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6.11	J	1	5.67	50.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-36-0	Antimony	3.38	U	1	3.38	25.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-39-3	Barium	7.28	U	1	7.28	50.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-43-9	Cadmium	0.25	U	1	0.25	3.00	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-70-2	Calcium	117	U	1	117	1000	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-50-8	Copper	2.30	U	1	2.30	10.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7439-89-6	Iron	11.7	U	1	11.7	50.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7439-92-1	Lead	1.15	U	1	1.15	6.00	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7439-95-4	Magnesium	122	U	1	122	1000	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7439-96-5	Manganese	6.66	J	1	2.97	10.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7439-97-6	Mercury	0.076	UN	1	0.076	0.20	ug/L	04/30/25 13:30	05/01/25 14:26	SW7470A	
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-09-7	Potassium	459	U	1	459	1000	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-23-5	Sodium	434	U	1	434	1000	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010
7440-66-6	Zinc	8.33	U	1	8.33	20.0	ug/L	04/30/25 10:20	05/01/25 17:57	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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LOQ = Limit of Quantitation
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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB109	Mercury	0.20	+/-0.20	U	0.20	CV	04/30/2025	13:38	LB135611

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	04/30/2025	13:42	LB135611
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/30/2025	14:13	LB135611
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	04/30/2025	14:40	LB135611
CCB55	Mercury	0.20	+/-0.20	U	0.20	CV	04/30/2025	14:58	LB135611

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB112	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	11:49	LB135623

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	12:01	LB135623
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	12:51	LB135623
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	13:23	LB135623
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	14:02	LB135623
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	14:40	LB135623
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	15:25	LB135623

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	04/30/2025	16:36	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	16:36	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	16:36	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	16:36	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	16:36	LB135614
	Cadmium	6.00	+/-6.00	U	6.00	P	04/30/2025	16:36	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	16:36	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	16:36	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	16:36	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	16:36	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	16:36	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	16:36	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	16:36	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	16:36	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	16:36	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	16:36	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	16:36	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	16:36	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	16:36	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	16:36	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	16:36	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	16:36	LB135614

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	04/30/2025	17:38	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	17:38	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	17:38	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	17:38	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	17:38	LB135614
	Cadmium	6.00	+/-6.00	U	6.00	P	04/30/2025	17:38	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	17:38	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	17:38	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	17:38	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	17:38	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	17:38	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	17:38	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	17:38	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	17:38	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	17:38	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	17:38	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	17:38	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	17:38	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	17:38	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	17:38	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	17:38	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	17:38	LB135614
CCB02	Aluminum	100	+/-100	U	100	P	04/30/2025	18:35	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	18:35	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	18:35	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	18:35	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	18:35	LB135614
	Cadmium	6.00	+/-6.00	U	6.00	P	04/30/2025	18:35	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	18:35	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	18:35	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	18:35	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	18:35	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	18:35	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	18:35	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	18:35	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	18:35	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	18:35	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	18:35	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	18:35	LB135614

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	18:35	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	18:35	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	18:35	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	18:35	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	18:35	LB135614
CCB03	Aluminum	100	+/-100	U	100	P	04/30/2025	19:41	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	19:41	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	19:41	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	19:41	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	19:41	LB135614
	Cadmium	1.42	+/-6.00	J	6.00	P	04/30/2025	19:41	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	19:41	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	19:41	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	19:41	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	19:41	LB135614
	Iron	35.4	+/-100	J	100	P	04/30/2025	19:41	LB135614
	Lead	3.92	+/-12.0	J	12.0	P	04/30/2025	19:41	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	19:41	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	19:41	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	19:41	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	19:41	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	19:41	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	19:41	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	19:41	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	19:41	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	19:41	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	19:41	LB135614
CCB04	Aluminum	100	+/-100	U	100	P	04/30/2025	20:27	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	20:27	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	20:27	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	20:27	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	20:27	LB135614
	Cadmium	0.57	+/-6.00	J	6.00	P	04/30/2025	20:27	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	20:27	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	20:27	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	20:27	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	20:27	LB135614
	Iron	23.9	+/-100	J	100	P	04/30/2025	20:27	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	20:27	LB135614

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	20:27	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	20:27	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	20:27	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	20:27	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	20:27	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	20:27	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	20:27	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	20:27	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	20:27	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	20:27	LB135614
CCB05	Aluminum	100	+/-100	U	100	P	04/30/2025	21:13	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	21:13	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	21:13	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	21:13	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	21:13	LB135614
	Cadmium	0.94	+/-6.00	J	6.00	P	04/30/2025	21:13	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	21:13	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	21:13	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	21:13	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	21:13	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	21:13	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	21:13	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	21:13	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	21:13	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	21:13	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	21:13	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	21:13	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	21:13	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	21:13	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	21:13	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	21:13	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	21:13	LB135614
CCB06	Aluminum	19.2	+/-100	J	100	P	04/30/2025	21:58	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	21:58	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	21:58	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	21:58	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	21:58	LB135614
	Cadmium	6.00	+/-6.00	U	6.00	P	04/30/2025	21:58	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	21:58	LB135614

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	21:58	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	21:58	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	21:58	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	21:58	LB135614
	Lead	2.39	+/-12.0	J	12.0	P	04/30/2025	21:58	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	21:58	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	21:58	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	21:58	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	21:58	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	21:58	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	21:58	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	21:58	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	21:58	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	21:58	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	21:58	LB135614
CCB07	Aluminum	100	+/-100	U	100	P	04/30/2025	22:44	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	22:44	LB135614
	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	22:44	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	22:44	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	22:44	LB135614
	Cadmium	0.88	+/-6.00	J	6.00	P	04/30/2025	22:44	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	22:44	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	22:44	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	22:44	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	22:44	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	22:44	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	22:44	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	22:44	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	22:44	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	22:44	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	22:44	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	22:44	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	22:44	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	22:44	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	22:44	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	22:44	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	22:44	LB135614
CCB08	Aluminum	100	+/-100	U	100	P	04/30/2025	23:09	LB135614
	Antimony	50.0	+/-50.0	U	50.0	P	04/30/2025	23:09	LB135614

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/30/2025	23:09	LB135614
	Barium	100	+/-100	U	100	P	04/30/2025	23:09	LB135614
	Beryllium	6.00	+/-6.00	U	6.00	P	04/30/2025	23:09	LB135614
	Cadmium	6.00	+/-6.00	U	6.00	P	04/30/2025	23:09	LB135614
	Calcium	2000	+/-2000	U	2000	P	04/30/2025	23:09	LB135614
	Chromium	10.0	+/-10.0	U	10.0	P	04/30/2025	23:09	LB135614
	Cobalt	30.0	+/-30.0	U	30.0	P	04/30/2025	23:09	LB135614
	Copper	20.0	+/-20.0	U	20.0	P	04/30/2025	23:09	LB135614
	Iron	100	+/-100	U	100	P	04/30/2025	23:09	LB135614
	Lead	12.0	+/-12.0	U	12.0	P	04/30/2025	23:09	LB135614
	Magnesium	2000	+/-2000	U	2000	P	04/30/2025	23:09	LB135614
	Manganese	20.0	+/-20.0	U	20.0	P	04/30/2025	23:09	LB135614
	Nickel	40.0	+/-40.0	U	40.0	P	04/30/2025	23:09	LB135614
	Potassium	2000	+/-2000	U	2000	P	04/30/2025	23:09	LB135614
	Selenium	20.0	+/-20.0	U	20.0	P	04/30/2025	23:09	LB135614
	Silver	10.0	+/-10.0	U	10.0	P	04/30/2025	23:09	LB135614
	Sodium	2000	+/-2000	U	2000	P	04/30/2025	23:09	LB135614
	Thallium	40.0	+/-40.0	U	40.0	P	04/30/2025	23:09	LB135614
	Vanadium	40.0	+/-40.0	U	40.0	P	04/30/2025	23:09	LB135614
	Zinc	40.0	+/-40.0	U	40.0	P	04/30/2025	23:09	LB135614

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/01/2025	14:11	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	14:11	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	14:11	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	14:11	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	14:11	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	14:11	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	14:11	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	14:11	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	14:11	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	14:11	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	14:11	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	14:11	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	14:11	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	14:11	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	14:11	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	14:11	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	14:11	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	14:11	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/01/2025	15:12	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	15:12	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	15:12	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	15:12	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	15:12	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	15:12	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	15:12	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	15:12	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	15:12	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	15:12	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	15:12	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	15:12	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	15:12	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	15:12	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	15:12	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	15:12	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	15:12	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	15:12	LB135636
CCB02	Aluminum	100	+/-100	U	100	P	05/01/2025	16:04	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	16:04	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	16:04	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	16:04	LB135636
	Cadmium	0.60	+/-6.00	J	6.00	P	05/01/2025	16:04	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	16:04	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	16:04	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	16:04	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	16:04	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	16:04	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	16:04	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	16:04	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	16:04	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	16:04	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	16:04	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	16:04	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	16:04	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	16:04	LB135636
CCB03	Aluminum	100	+/-100	U	100	P	05/01/2025	17:07	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	17:07	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	17:07	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	17:07	LB135636
	Cadmium	0.88	+/-6.00	J	6.00	P	05/01/2025	17:07	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	17:07	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	17:07	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	17:07	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	17:07	LB135636
	Lead	3.14	+/-12.0	J	12.0	P	05/01/2025	17:07	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	17:07	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	17:07	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	17:07	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	17:07	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	17:07	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	17:07	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	17:07	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	17:07	LB135636
CCB04	Aluminum	100	+/-100	U	100	P	05/01/2025	17:53	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	17:53	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	17:53	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	17:53	LB135636
	Cadmium	0.92	+/-6.00	J	6.00	P	05/01/2025	17:53	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	17:53	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	17:53	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	17:53	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	17:53	LB135636
	Lead	2.63	+/-12.0	J	12.0	P	05/01/2025	17:53	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	17:53	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	17:53	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	17:53	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	17:53	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	17:53	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	17:53	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	17:53	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	17:53	LB135636
CCB05	Aluminum	100	+/-100	U	100	P	05/01/2025	18:40	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	18:40	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	18:40	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	18:40	LB135636
	Cadmium	0.89	+/-6.00	J	6.00	P	05/01/2025	18:40	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	18:40	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	18:40	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	18:40	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	18:40	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	18:40	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	18:40	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	18:40	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	18:40	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	18:40	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	18:40	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	18:40	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	18:40	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	18:40	LB135636
CCB06	Aluminum	100	+/-100	U	100	P	05/01/2025	19:27	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	19:27	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	19:27	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	19:27	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	19:27	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	19:27	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	19:27	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	19:27	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	19:27	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	19:27	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	19:27	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	19:27	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	19:27	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	19:27	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	19:27	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	19:27	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	19:27	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	19:27	LB135636
CCB07	Aluminum	100	+/-100	U	100	P	05/01/2025	20:15	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	20:15	LB135636
	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	20:15	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:15	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:15	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	20:15	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	20:15	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	20:15	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	20:15	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	20:15	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	20:15	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	20:15	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	20:15	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	20:15	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	20:15	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	20:15	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	20:15	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	20:15	LB135636
CCB08	Aluminum	100	+/-100	U	100	P	05/01/2025	20:28	LB135636
	Antimony	50.0	+/-50.0	U	50.0	P	05/01/2025	20:28	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	20:28	LB135636
	Beryllium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:28	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:28	LB135636
	Calcium	2000	+/-2000	U	2000	P	05/01/2025	20:28	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	20:28	LB135636
	Cobalt	30.0	+/-30.0	U	30.0	P	05/01/2025	20:28	LB135636
	Copper	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Iron	100	+/-100	U	100	P	05/01/2025	20:28	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	20:28	LB135636
	Magnesium	2000	+/-2000	U	2000	P	05/01/2025	20:28	LB135636
	Manganese	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Nickel	40.0	+/-40.0	U	40.0	P	05/01/2025	20:28	LB135636
	Potassium	2000	+/-2000	U	2000	P	05/01/2025	20:28	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	20:28	LB135636
	Sodium	2000	+/-2000	U	2000	P	05/01/2025	20:28	LB135636
	Thallium	40.0	+/-40.0	U	40.0	P	05/01/2025	20:28	LB135636
	Vanadium	40.0	+/-40.0	U	40.0	P	05/01/2025	20:28	LB135636
	Zinc	40.0	+/-40.0	U	40.0	P	05/01/2025	20:28	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/06/2025	15:27	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	15:27	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	15:27	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	15:27	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	15:27	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	15:27	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	15:27	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	15:27	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	15:27	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	15:27	LB135689
	Iron	100	+/-100	U	100	P	05/06/2025	15:27	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	15:27	LB135689
	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	15:27	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	15:27	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	15:27	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	15:27	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	15:27	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	15:27	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	15:27	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	15:27	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	15:27	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	15:27	LB135689

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	12.8	+/-100	J	100	P	05/06/2025	16:34	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	16:34	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	16:34	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	16:34	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	16:34	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	16:34	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	16:34	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	16:34	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	16:34	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	16:34	LB135689
	Iron	100	+/-100	U	100	P	05/06/2025	16:34	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	16:34	LB135689
	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	16:34	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	16:34	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	16:34	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	16:34	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	16:34	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	16:34	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	16:34	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	16:34	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	16:34	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	16:34	LB135689
CCB02	Aluminum	14.3	+/-100	J	100	P	05/06/2025	17:20	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	17:20	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	17:20	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	17:20	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	17:20	LB135689
	Cadmium	0.60	+/-6.00	J	6.00	P	05/06/2025	17:20	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	17:20	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	17:20	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	17:20	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	17:20	LB135689
	Iron	100	+/-100	U	100	P	05/06/2025	17:20	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	17:20	LB135689
	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	17:20	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	17:20	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	17:20	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	17:20	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	17:20	LB135689

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	17:20	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	17:20	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	17:20	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	17:20	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	17:20	LB135689
CCB03	Aluminum	15.8	+/-100	J	100	P	05/06/2025	18:13	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	18:13	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	18:13	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	18:13	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	18:13	LB135689
	Cadmium	0.59	+/-6.00	J	6.00	P	05/06/2025	18:13	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	18:13	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	18:13	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	18:13	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	18:13	LB135689
	Iron	23.9	+/-100	J	100	P	05/06/2025	18:13	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	18:13	LB135689
	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	18:13	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	18:13	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	18:13	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	18:13	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	18:13	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	18:13	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	18:13	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	18:13	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	18:13	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	18:13	LB135689
CCB04	Aluminum	16.7	+/-100	J	100	P	05/06/2025	19:20	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	19:20	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	19:20	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	19:20	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	19:20	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	19:20	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	19:20	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	19:20	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	19:20	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	19:20	LB135689
	Iron	100	+/-100	U	100	P	05/06/2025	19:20	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	19:20	LB135689

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	19:20	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	19:20	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	19:20	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	19:20	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	19:20	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	19:20	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	19:20	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	19:20	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	19:20	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	19:20	LB135689
CCB05	Aluminum	100	+/-100	U	100	P	05/06/2025	20:06	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	20:06	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	20:06	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	20:06	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	20:06	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	20:06	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	20:06	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	20:06	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	20:06	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	20:06	LB135689
	Iron	100	+/-100	U	100	P	05/06/2025	20:06	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	20:06	LB135689
	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	20:06	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	20:06	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	20:06	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	20:06	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	20:06	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	20:06	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	20:06	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	20:06	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	20:06	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	20:06	LB135689
CCB06	Aluminum	100	+/-100	U	100	P	05/06/2025	20:35	LB135689
	Antimony	50.0	+/-50.0	U	50.0	P	05/06/2025	20:35	LB135689
	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	20:35	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	20:35	LB135689
	Beryllium	6.00	+/-6.00	U	6.00	P	05/06/2025	20:35	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	20:35	LB135689
	Calcium	2000	+/-2000	U	2000	P	05/06/2025	20:35	LB135689

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	20:35	LB135689
	Cobalt	30.0	+/-30.0	U	30.0	P	05/06/2025	20:35	LB135689
	Copper	20.0	+/-20.0	U	20.0	P	05/06/2025	20:35	LB135689
	Iron	100	+/-100	U	100	P	05/06/2025	20:35	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	20:35	LB135689
	Magnesium	2000	+/-2000	U	2000	P	05/06/2025	20:35	LB135689
	Manganese	20.0	+/-20.0	U	20.0	P	05/06/2025	20:35	LB135689
	Nickel	40.0	+/-40.0	U	40.0	P	05/06/2025	20:35	LB135689
	Potassium	2000	+/-2000	U	2000	P	05/06/2025	20:35	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	20:35	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	20:35	LB135689
	Sodium	2000	+/-2000	U	2000	P	05/06/2025	20:35	LB135689
	Thallium	40.0	+/-40.0	U	40.0	P	05/06/2025	20:35	LB135689
	Vanadium	40.0	+/-40.0	U	40.0	P	05/06/2025	20:35	LB135689
	Zinc	40.0	+/-40.0	U	40.0	P	05/06/2025	20:35	LB135689

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167786BL		**SOLID**		**Batch Number:**	**PB167786**		**Prep Date:**	**04/29/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	04/30/2025	13:51	LB135611

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167812BL		**WATER**		**Batch Number:**	**PB167812**		**Prep Date:**	**04/30/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	05/01/2025	13:55	LB135623

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167781BL		**SOLID**		**Batch Number:**	**PB167781**		**Prep Date:**	**04/29/2025**	
	Aluminum	4.81	<4.81	U	4.81	P	05/06/2025	18:25	LB135689
	Antimony	2.40	<2.40	U	2.40	P	05/06/2025	18:25	LB135689
	Arsenic	0.96	<0.96	U	0.96	P	05/06/2025	18:25	LB135689
	Barium	4.81	<4.81	U	4.81	P	05/06/2025	18:25	LB135689
	Beryllium	0.29	<0.29	U	0.29	P	05/06/2025	18:25	LB135689
	Cadmium	0.29	<0.29	U	0.29	P	05/06/2025	18:25	LB135689
	Calcium	96.2	<96.2	U	96.2	P	05/06/2025	18:25	LB135689
	Chromium	0.48	<0.48	U	0.48	P	05/06/2025	18:25	LB135689
	Cobalt	1.44	<1.44	U	1.44	P	05/06/2025	18:25	LB135689
	Copper	0.96	<0.96	U	0.96	P	05/06/2025	18:25	LB135689
	Iron	4.81	<4.81	U	4.81	P	05/06/2025	18:25	LB135689
	Lead	0.58	<0.58	U	0.58	P	05/06/2025	18:25	LB135689
	Magnesium	96.2	<96.2	U	96.2	P	05/06/2025	18:25	LB135689
	Manganese	0.96	<0.96	U	0.96	P	05/06/2025	18:25	LB135689
	Nickel	1.92	<1.92	U	1.92	P	05/06/2025	18:25	LB135689
	Potassium	96.2	<96.2	U	96.2	P	05/06/2025	18:25	LB135689
	Selenium	0.96	<0.96	U	0.96	P	05/06/2025	18:25	LB135689
	Silver	0.48	<0.48	U	0.48	P	05/06/2025	18:25	LB135689
	Sodium	96.2	<96.2	U	96.2	P	05/06/2025	18:25	LB135689
	Thallium	1.92	<1.92	U	1.92	P	05/06/2025	18:25	LB135689
	Vanadium	1.92	<1.92	U	1.92	P	05/06/2025	18:25	LB135689
	Zinc	1.92	<1.92	U	1.92	P	05/06/2025	18:25	LB135689

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167799BL		**WATER**		**Batch Number:**	**PB167799**		**Prep Date:**	**04/30/2025**	
	Aluminum	50.0	<50.0	U	50.0	P	05/01/2025	16:50	LB135636
	Antimony	25.0	<25.0	U	25.0	P	05/01/2025	16:50	LB135636
	Arsenic	10.0	<10.0	U	10.0	P	05/01/2025	16:50	LB135636
	Barium	50.0	<50.0	U	50.0	P	05/01/2025	16:50	LB135636
	Beryllium	3.00	<3.00	U	3.00	P	05/01/2025	16:50	LB135636
	Cadmium	3.00	<3.00	U	3.00	P	05/01/2025	16:50	LB135636
	Calcium	1000	<1000	U	1000	P	05/01/2025	16:50	LB135636
	Chromium	5.00	<5.00	U	5.00	P	05/01/2025	16:50	LB135636
	Cobalt	15.0	<15.0	U	15.0	P	05/01/2025	16:50	LB135636
	Copper	10.0	<10.0	U	10.0	P	05/01/2025	16:50	LB135636
	Iron	50.0	<50.0	U	50.0	P	05/01/2025	16:50	LB135636
	Lead	6.00	<6.00	U	6.00	P	05/01/2025	16:50	LB135636
	Magnesium	1000	<1000	U	1000	P	05/01/2025	16:50	LB135636
	Manganese	10.0	<10.0	U	10.0	P	05/01/2025	16:50	LB135636
	Nickel	20.0	<20.0	U	20.0	P	05/01/2025	16:50	LB135636

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Instrument: P4

Potassium	1000	<1000	U	1000	P	05/01/2025	16:50	LB135636
Selenium	10.0	<10.0	U	10.0	P	05/01/2025	16:50	LB135636
Silver	5.00	<5.00	U	5.00	P	05/01/2025	16:50	LB135636
Sodium	1000	<1000	U	1000	P	05/01/2025	16:50	LB135636
Thallium	20.0	<20.0	U	20.0	P	05/01/2025	16:50	LB135636
Vanadium	20.0	<20.0	U	20.0	P	05/01/2025	16:50	LB135636
Zinc	20.0	<20.0	U	20.0	P	05/01/2025	16:50	LB135636

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV109	Mercury	4.20	4.0	105	90 - 110	CV	04/30/2025	13:35	LB135611

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV52	Mercury	5.02	5.0	100	90 - 110	CV	04/30/2025	13:40	LB135611
CCV53	Mercury	4.99	5.0	100	90 - 110	CV	04/30/2025	14:10	LB135611
CCV54	Mercury	5.02	5.0	100	90 - 110	CV	04/30/2025	14:38	LB135611
CCV55	Mercury	5.06	5.0	101	90 - 110	CV	04/30/2025	14:56	LB135611

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **Portal Partners Tri-Venture** **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV112	Mercury	3.81	4.0	95	90 - 110	CV	05/01/2025	11:47	LB135623

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV62	Mercury	4.80	5.0	96	90 - 110	CV	05/01/2025	11:58	LB135623
CCV63	Mercury	5.01	5.0	100	90 - 110	CV	05/01/2025	12:49	LB135623
CCV64	Mercury	5.09	5.0	102	90 - 110	CV	05/01/2025	13:19	LB135623
CCV65	Mercury	4.77	5.0	95	90 - 110	CV	05/01/2025	13:58	LB135623
CCV66	Mercury	4.60	5.0	92	90 - 110	CV	05/01/2025	14:29	LB135623
CCV67	Mercury	4.61	5.0	92	90 - 110	CV	05/01/2025	15:23	LB135623

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2320	2500	93	90 - 110	P	04/30/2025	16:18	LB135614
	Antimony	973	1000	97	90 - 110	P	04/30/2025	16:18	LB135614
	Arsenic	986	1000	99	90 - 110	P	04/30/2025	16:18	LB135614
	Barium	537	520	103	90 - 110	P	04/30/2025	16:18	LB135614
	Beryllium	473	510	93	90 - 110	P	04/30/2025	16:18	LB135614
	Cadmium	500	510	98	90 - 110	P	04/30/2025	16:18	LB135614
	Calcium	9270	10000	93	90 - 110	P	04/30/2025	16:18	LB135614
	Chromium	510	520	98	90 - 110	P	04/30/2025	16:18	LB135614
	Cobalt	487	520	94	90 - 110	P	04/30/2025	16:18	LB135614
	Copper	495	510	97	90 - 110	P	04/30/2025	16:18	LB135614
	Iron	9190	10000	92	90 - 110	P	04/30/2025	16:18	LB135614
	Lead	987	1000	99	90 - 110	P	04/30/2025	16:18	LB135614
	Magnesium	5510	6000	92	90 - 110	P	04/30/2025	16:18	LB135614
	Manganese	468	520	90	90 - 110	P	04/30/2025	16:18	LB135614
	Nickel	526	530	99	90 - 110	P	04/30/2025	16:18	LB135614
	Potassium	10000	9900	101	90 - 110	P	04/30/2025	16:18	LB135614
	Selenium	1010	1000	101	90 - 110	P	04/30/2025	16:18	LB135614
	Silver	262	250	105	90 - 110	P	04/30/2025	16:18	LB135614
	Sodium	9910	10000	99	90 - 110	P	04/30/2025	16:18	LB135614
	Thallium	1080	1000	108	90 - 110	P	04/30/2025	16:18	LB135614
	Vanadium	455	500	91	90 - 110	P	04/30/2025	16:18	LB135614
	Zinc	969	1000	97	90 - 110	P	04/30/2025	16:18	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	95.4	100	95	80 - 120	P	04/30/2025	16:28	LB135614
	Antimony	55.5	50.0	111	80 - 120	P	04/30/2025	16:28	LB135614
	Arsenic	22.6	20.0	113	80 - 120	P	04/30/2025	16:28	LB135614
	Barium	93.5	100	94	80 - 120	P	04/30/2025	16:28	LB135614
	Beryllium	6.43	6.0	107	80 - 120	P	04/30/2025	16:28	LB135614
	Cadmium	6.58	6.0	110	80 - 120	P	04/30/2025	16:28	LB135614
	Calcium	2040	2000	102	80 - 120	P	04/30/2025	16:28	LB135614
	Chromium	9.76	10.0	98	80 - 120	P	04/30/2025	16:28	LB135614
	Cobalt	30.9	30.0	103	80 - 120	P	04/30/2025	16:28	LB135614
	Copper	23.3	20.0	116	80 - 120	P	04/30/2025	16:28	LB135614
	Iron	92.8	100	93	80 - 120	P	04/30/2025	16:28	LB135614
	Lead	12.4	12.0	103	80 - 120	P	04/30/2025	16:28	LB135614
	Magnesium	2180	2000	109	80 - 120	P	04/30/2025	16:28	LB135614
	Manganese	21.3	20.0	106	80 - 120	P	04/30/2025	16:28	LB135614
	Nickel	41.8	40.0	104	80 - 120	P	04/30/2025	16:28	LB135614
	Potassium	1970	2000	98	80 - 120	P	04/30/2025	16:28	LB135614
	Selenium	16.3	20.0	82	80 - 120	P	04/30/2025	16:28	LB135614
	Silver	10.7	10.0	107	80 - 120	P	04/30/2025	16:28	LB135614
	Sodium	1740	2000	87	80 - 120	P	04/30/2025	16:28	LB135614
	Thallium	45.6	40.0	114	80 - 120	P	04/30/2025	16:28	LB135614
	Vanadium	40.2	40.0	100	80 - 120	P	04/30/2025	16:28	LB135614
	Zinc	42.5	40.0	106	80 - 120	P	04/30/2025	16:28	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9840	10000	98	90 - 110	P	04/30/2025	17:27	LB135614
	Antimony	4970	5000	100	90 - 110	P	04/30/2025	17:27	LB135614
	Arsenic	5000	5000	100	90 - 110	P	04/30/2025	17:27	LB135614
	Barium	9810	10000	98	90 - 110	P	04/30/2025	17:27	LB135614
	Beryllium	239	250	96	90 - 110	P	04/30/2025	17:27	LB135614
	Cadmium	2530	2500	101	90 - 110	P	04/30/2025	17:27	LB135614
	Calcium	24300	25000	97	90 - 110	P	04/30/2025	17:27	LB135614
	Chromium	1020	1000	102	90 - 110	P	04/30/2025	17:27	LB135614
	Cobalt	2510	2500	100	90 - 110	P	04/30/2025	17:27	LB135614
	Copper	1250	1250	100	90 - 110	P	04/30/2025	17:27	LB135614
	Iron	5130	5000	103	90 - 110	P	04/30/2025	17:27	LB135614
	Lead	5060	5000	101	90 - 110	P	04/30/2025	17:27	LB135614
	Magnesium	24100	25000	96	90 - 110	P	04/30/2025	17:27	LB135614
	Manganese	2430	2500	97	90 - 110	P	04/30/2025	17:27	LB135614
	Nickel	2520	2500	101	90 - 110	P	04/30/2025	17:27	LB135614
	Potassium	25700	25000	103	90 - 110	P	04/30/2025	17:27	LB135614
	Selenium	5010	5000	100	90 - 110	P	04/30/2025	17:27	LB135614
	Silver	1250	1250	100	90 - 110	P	04/30/2025	17:27	LB135614
	Sodium	25400	25000	102	90 - 110	P	04/30/2025	17:27	LB135614
	Thallium	5240	5000	105	90 - 110	P	04/30/2025	17:27	LB135614
	Vanadium	2450	2500	98	90 - 110	P	04/30/2025	17:27	LB135614
	Zinc	2510	2500	100	90 - 110	P	04/30/2025	17:27	LB135614
CCV02	Aluminum	10000	10000	100	90 - 110	P	04/30/2025	18:30	LB135614
	Antimony	4770	5000	95	90 - 110	P	04/30/2025	18:30	LB135614
	Arsenic	4820	5000	96	90 - 110	P	04/30/2025	18:30	LB135614
	Barium	9940	10000	99	90 - 110	P	04/30/2025	18:30	LB135614
	Beryllium	261	250	104	90 - 110	P	04/30/2025	18:30	LB135614
	Cadmium	2560	2500	102	90 - 110	P	04/30/2025	18:30	LB135614
	Calcium	25400	25000	102	90 - 110	P	04/30/2025	18:30	LB135614
	Chromium	1040	1000	104	90 - 110	P	04/30/2025	18:30	LB135614
	Cobalt	2510	2500	101	90 - 110	P	04/30/2025	18:30	LB135614
	Copper	1220	1250	97	90 - 110	P	04/30/2025	18:30	LB135614
	Iron	5020	5000	100	90 - 110	P	04/30/2025	18:30	LB135614
	Lead	5080	5000	102	90 - 110	P	04/30/2025	18:30	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25800	25000	103	90 - 110	P	04/30/2025	18:30	LB135614
	Manganese	2520	2500	101	90 - 110	P	04/30/2025	18:30	LB135614
	Nickel	2520	2500	101	90 - 110	P	04/30/2025	18:30	LB135614
	Potassium	24400	25000	98	90 - 110	P	04/30/2025	18:30	LB135614
	Selenium	4770	5000	95	90 - 110	P	04/30/2025	18:30	LB135614
	Silver	1250	1250	100	90 - 110	P	04/30/2025	18:30	LB135614
	Sodium	23700	25000	95	90 - 110	P	04/30/2025	18:30	LB135614
	Thallium	5180	5000	104	90 - 110	P	04/30/2025	18:30	LB135614
	Vanadium	2540	2500	102	90 - 110	P	04/30/2025	18:30	LB135614
	Zinc	2490	2500	100	90 - 110	P	04/30/2025	18:30	LB135614
CCV03	Aluminum	10100	10000	101	90 - 110	P	04/30/2025	19:37	LB135614
	Antimony	5030	5000	100	90 - 110	P	04/30/2025	19:37	LB135614
	Arsenic	5060	5000	101	90 - 110	P	04/30/2025	19:37	LB135614
	Barium	9770	10000	98	90 - 110	P	04/30/2025	19:37	LB135614
	Beryllium	264	250	106	90 - 110	P	04/30/2025	19:37	LB135614
	Cadmium	2570	2500	103	90 - 110	P	04/30/2025	19:37	LB135614
	Calcium	25100	25000	101	90 - 110	P	04/30/2025	19:37	LB135614
	Chromium	1040	1000	104	90 - 110	P	04/30/2025	19:37	LB135614
	Cobalt	2540	2500	102	90 - 110	P	04/30/2025	19:37	LB135614
	Copper	1260	1250	101	90 - 110	P	04/30/2025	19:37	LB135614
	Iron	5170	5000	103	90 - 110	P	04/30/2025	19:37	LB135614
	Lead	5110	5000	102	90 - 110	P	04/30/2025	19:37	LB135614
	Magnesium	25400	25000	102	90 - 110	P	04/30/2025	19:37	LB135614
	Manganese	2480	2500	99	90 - 110	P	04/30/2025	19:37	LB135614
	Nickel	2550	2500	102	90 - 110	P	04/30/2025	19:37	LB135614
	Potassium	24100	25000	96	90 - 110	P	04/30/2025	19:37	LB135614
	Selenium	5080	5000	102	90 - 110	P	04/30/2025	19:37	LB135614
	Silver	1270	1250	102	90 - 110	P	04/30/2025	19:37	LB135614
	Sodium	23200	25000	93	90 - 110	P	04/30/2025	19:37	LB135614
	Thallium	5240	5000	105	90 - 110	P	04/30/2025	19:37	LB135614
	Vanadium	2510	2500	100	90 - 110	P	04/30/2025	19:37	LB135614
	Zinc	2540	2500	102	90 - 110	P	04/30/2025	19:37	LB135614
CCV04	Aluminum	9940	10000	99	90 - 110	P	04/30/2025	20:23	LB135614
	Antimony	4980	5000	100	90 - 110	P	04/30/2025	20:23	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5000	5000	100	90 - 110	P	04/30/2025	20:23	LB135614
	Barium	9720	10000	97	90 - 110	P	04/30/2025	20:23	LB135614
	Beryllium	251	250	100	90 - 110	P	04/30/2025	20:23	LB135614
	Cadmium	2550	2500	102	90 - 110	P	04/30/2025	20:23	LB135614
	Calcium	24900	25000	100	90 - 110	P	04/30/2025	20:23	LB135614
	Chromium	1050	1000	105	90 - 110	P	04/30/2025	20:23	LB135614
	Cobalt	2520	2500	101	90 - 110	P	04/30/2025	20:23	LB135614
	Copper	1250	1250	100	90 - 110	P	04/30/2025	20:23	LB135614
	Iron	5490	5000	110	90 - 110	P	04/30/2025	20:23	LB135614
	Lead	5100	5000	102	90 - 110	P	04/30/2025	20:23	LB135614
	Magnesium	25300	25000	101	90 - 110	P	04/30/2025	20:23	LB135614
	Manganese	2430	2500	97	90 - 110	P	04/30/2025	20:23	LB135614
	Nickel	2530	2500	101	90 - 110	P	04/30/2025	20:23	LB135614
	Potassium	24600	25000	99	90 - 110	P	04/30/2025	20:23	LB135614
	Selenium	4970	5000	100	90 - 110	P	04/30/2025	20:23	LB135614
	Silver	1270	1250	101	90 - 110	P	04/30/2025	20:23	LB135614
	Sodium	23800	25000	95	90 - 110	P	04/30/2025	20:23	LB135614
	Thallium	5140	5000	103	90 - 110	P	04/30/2025	20:23	LB135614
	Vanadium	2480	2500	99	90 - 110	P	04/30/2025	20:23	LB135614
	Zinc	2520	2500	101	90 - 110	P	04/30/2025	20:23	LB135614
CCV05	Aluminum	9810	10000	98	90 - 110	P	04/30/2025	21:08	LB135614
	Antimony	4960	5000	99	90 - 110	P	04/30/2025	21:08	LB135614
	Arsenic	4970	5000	99	90 - 110	P	04/30/2025	21:08	LB135614
	Barium	9680	10000	97	90 - 110	P	04/30/2025	21:08	LB135614
	Beryllium	252	250	101	90 - 110	P	04/30/2025	21:08	LB135614
	Cadmium	2530	2500	101	90 - 110	P	04/30/2025	21:08	LB135614
	Calcium	25000	25000	100	90 - 110	P	04/30/2025	21:08	LB135614
	Chromium	1050	1000	105	90 - 110	P	04/30/2025	21:08	LB135614
	Cobalt	2510	2500	100	90 - 110	P	04/30/2025	21:08	LB135614
	Copper	1240	1250	99	90 - 110	P	04/30/2025	21:08	LB135614
	Iron	5060	5000	101	90 - 110	P	04/30/2025	21:08	LB135614
	Lead	5070	5000	101	90 - 110	P	04/30/2025	21:08	LB135614
	Magnesium	25500	25000	102	90 - 110	P	04/30/2025	21:08	LB135614
	Manganese	2440	2500	98	90 - 110	P	04/30/2025	21:08	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2510	2500	100	90 - 110	P	04/30/2025	21:08	LB135614
	Potassium	24100	25000	96	90 - 110	P	04/30/2025	21:08	LB135614
	Selenium	4940	5000	99	90 - 110	P	04/30/2025	21:08	LB135614
	Silver	1260	1250	100	90 - 110	P	04/30/2025	21:08	LB135614
	Sodium	23100	25000	93	90 - 110	P	04/30/2025	21:08	LB135614
	Thallium	5160	5000	103	90 - 110	P	04/30/2025	21:08	LB135614
	Vanadium	2480	2500	99	90 - 110	P	04/30/2025	21:08	LB135614
	Zinc	2500	2500	100	90 - 110	P	04/30/2025	21:08	LB135614
CCV06	Aluminum	9680	10000	97	90 - 110	P	04/30/2025	21:54	LB135614
	Antimony	5010	5000	100	90 - 110	P	04/30/2025	21:54	LB135614
	Arsenic	5030	5000	100	90 - 110	P	04/30/2025	21:54	LB135614
	Barium	9680	10000	97	90 - 110	P	04/30/2025	21:54	LB135614
	Beryllium	238	250	95	90 - 110	P	04/30/2025	21:54	LB135614
	Cadmium	2500	2500	100	90 - 110	P	04/30/2025	21:54	LB135614
	Calcium	24200	25000	97	90 - 110	P	04/30/2025	21:54	LB135614
	Chromium	1010	1000	101	90 - 110	P	04/30/2025	21:54	LB135614
	Cobalt	2490	2500	99	90 - 110	P	04/30/2025	21:54	LB135614
	Copper	1250	1250	100	90 - 110	P	04/30/2025	21:54	LB135614
	Iron	5070	5000	101	90 - 110	P	04/30/2025	21:54	LB135614
	Lead	5010	5000	100	90 - 110	P	04/30/2025	21:54	LB135614
	Magnesium	24200	25000	97	90 - 110	P	04/30/2025	21:54	LB135614
	Manganese	2400	2500	96	90 - 110	P	04/30/2025	21:54	LB135614
	Nickel	2490	2500	100	90 - 110	P	04/30/2025	21:54	LB135614
	Potassium	24600	25000	98	90 - 110	P	04/30/2025	21:54	LB135614
	Selenium	5060	5000	101	90 - 110	P	04/30/2025	21:54	LB135614
	Silver	1230	1250	98	90 - 110	P	04/30/2025	21:54	LB135614
	Sodium	24000	25000	96	90 - 110	P	04/30/2025	21:54	LB135614
	Thallium	5110	5000	102	90 - 110	P	04/30/2025	21:54	LB135614
	Vanadium	2430	2500	97	90 - 110	P	04/30/2025	21:54	LB135614
	Zinc	2450	2500	98	90 - 110	P	04/30/2025	21:54	LB135614
CCV07	Aluminum	9820	10000	98	90 - 110	P	04/30/2025	22:40	LB135614
	Antimony	5220	5000	104	90 - 110	P	04/30/2025	22:40	LB135614
	Arsenic	5170	5000	103	90 - 110	P	04/30/2025	22:40	LB135614
	Barium	9890	10000	99	90 - 110	P	04/30/2025	22:40	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	238	250	95	90 - 110	P	04/30/2025	22:40	LB135614
	Cadmium	2440	2500	98	90 - 110	P	04/30/2025	22:40	LB135614
	Calcium	24000	25000	96	90 - 110	P	04/30/2025	22:40	LB135614
	Chromium	995	1000	100	90 - 110	P	04/30/2025	22:40	LB135614
	Cobalt	2450	2500	98	90 - 110	P	04/30/2025	22:40	LB135614
	Copper	1290	1250	103	90 - 110	P	04/30/2025	22:40	LB135614
	Iron	5110	5000	102	90 - 110	P	04/30/2025	22:40	LB135614
	Lead	4900	5000	98	90 - 110	P	04/30/2025	22:40	LB135614
	Magnesium	23900	25000	96	90 - 110	P	04/30/2025	22:40	LB135614
	Manganese	2400	2500	96	90 - 110	P	04/30/2025	22:40	LB135614
	Nickel	2460	2500	98	90 - 110	P	04/30/2025	22:40	LB135614
	Potassium	25200	25000	101	90 - 110	P	04/30/2025	22:40	LB135614
	Selenium	5260	5000	105	90 - 110	P	04/30/2025	22:40	LB135614
	Silver	1240	1250	99	90 - 110	P	04/30/2025	22:40	LB135614
	Sodium	24900	25000	100	90 - 110	P	04/30/2025	22:40	LB135614
	Thallium	5030	5000	101	90 - 110	P	04/30/2025	22:40	LB135614
	Vanadium	2440	2500	98	90 - 110	P	04/30/2025	22:40	LB135614
	Zinc	2510	2500	100	90 - 110	P	04/30/2025	22:40	LB135614
CCV08	Aluminum	9980	10000	100	90 - 110	P	04/30/2025	23:05	LB135614
	Antimony	5150	5000	103	90 - 110	P	04/30/2025	23:05	LB135614
	Arsenic	5120	5000	102	90 - 110	P	04/30/2025	23:05	LB135614
	Barium	9730	10000	97	90 - 110	P	04/30/2025	23:05	LB135614
	Beryllium	246	250	98	90 - 110	P	04/30/2025	23:05	LB135614
	Cadmium	2440	2500	98	90 - 110	P	04/30/2025	23:05	LB135614
	Calcium	24000	25000	96	90 - 110	P	04/30/2025	23:05	LB135614
	Chromium	989	1000	99	90 - 110	P	04/30/2025	23:05	LB135614
	Cobalt	2440	2500	98	90 - 110	P	04/30/2025	23:05	LB135614
	Copper	1280	1250	103	90 - 110	P	04/30/2025	23:05	LB135614
	Iron	5100	5000	102	90 - 110	P	04/30/2025	23:05	LB135614
	Lead	4880	5000	98	90 - 110	P	04/30/2025	23:05	LB135614
	Magnesium	23600	25000	94	90 - 110	P	04/30/2025	23:05	LB135614
	Manganese	2380	2500	95	90 - 110	P	04/30/2025	23:05	LB135614
	Nickel	2450	2500	98	90 - 110	P	04/30/2025	23:05	LB135614
	Potassium	25000	25000	100	90 - 110	P	04/30/2025	23:05	LB135614

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5200	5000	104	90 - 110	P	04/30/2025	23:05	LB135614
	Silver	1240	1250	100	90 - 110	P	04/30/2025	23:05	LB135614
	Sodium	24400	25000	98	90 - 110	P	04/30/2025	23:05	LB135614
	Thallium	5020	5000	100	90 - 110	P	04/30/2025	23:05	LB135614
	Vanadium	2420	2500	97	90 - 110	P	04/30/2025	23:05	LB135614
	Zinc	2510	2500	100	90 - 110	P	04/30/2025	23:05	LB135614

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2390	2500	96	90 - 110	P	05/01/2025	13:44	LB135636
	Antimony	1020	1000	102	90 - 110	P	05/01/2025	13:44	LB135636
	Arsenic	1010	1000	100	90 - 110	P	05/01/2025	13:44	LB135636
	Barium	495	520	95	90 - 110	P	05/01/2025	13:44	LB135636
	Beryllium	496	510	97	90 - 110	P	05/01/2025	13:44	LB135636
	Cadmium	508	510	100	90 - 110	P	05/01/2025	13:44	LB135636
	Calcium	9240	10000	92	90 - 110	P	05/01/2025	13:44	LB135636
	Chromium	506	520	97	90 - 110	P	05/01/2025	13:44	LB135636
	Cobalt	497	520	96	90 - 110	P	05/01/2025	13:44	LB135636
	Copper	508	510	100	90 - 110	P	05/01/2025	13:44	LB135636
	Iron	9100	10000	91	90 - 110	P	05/01/2025	13:44	LB135636
	Lead	989	1000	99	90 - 110	P	05/01/2025	13:44	LB135636
	Magnesium	5540	6000	92	90 - 110	P	05/01/2025	13:44	LB135636
	Manganese	476	520	92	90 - 110	P	05/01/2025	13:44	LB135636
	Nickel	500	530	94	90 - 110	P	05/01/2025	13:44	LB135636
	Potassium	8970	9900	91	90 - 110	P	05/01/2025	13:44	LB135636
	Selenium	1040	1000	104	90 - 110	P	05/01/2025	13:44	LB135636
	Silver	240	250	96	90 - 110	P	05/01/2025	13:44	LB135636
	Sodium	9020	10000	90	90 - 110	P	05/01/2025	13:44	LB135636
	Thallium	1030	1000	103	90 - 110	P	05/01/2025	13:44	LB135636
	Vanadium	466	500	93	90 - 110	P	05/01/2025	13:44	LB135636
	Zinc	982	1000	98	90 - 110	P	05/01/2025	13:44	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	95.4	100	95	80 - 120	P	05/01/2025	14:01	LB135636
	Antimony	53.5	50.0	107	80 - 120	P	05/01/2025	14:01	LB135636
	Arsenic	23.7	20.0	119	80 - 120	P	05/01/2025	14:01	LB135636
	Barium	95.8	100	96	80 - 120	P	05/01/2025	14:01	LB135636
	Beryllium	6.09	6.0	102	80 - 120	P	05/01/2025	14:01	LB135636
	Cadmium	6.39	6.0	107	80 - 120	P	05/01/2025	14:01	LB135636
	Calcium	2040	2000	102	80 - 120	P	05/01/2025	14:01	LB135636
	Chromium	10.5	10.0	105	80 - 120	P	05/01/2025	14:01	LB135636
	Cobalt	31.3	30.0	104	80 - 120	P	05/01/2025	14:01	LB135636
	Copper	22.9	20.0	114	80 - 120	P	05/01/2025	14:01	LB135636
	Iron	106	100	106	80 - 120	P	05/01/2025	14:01	LB135636
	Lead	13.1	12.0	109	80 - 120	P	05/01/2025	14:01	LB135636
	Magnesium	2160	2000	108	80 - 120	P	05/01/2025	14:01	LB135636
	Manganese	21.3	20.0	107	80 - 120	P	05/01/2025	14:01	LB135636
	Nickel	42.7	40.0	107	80 - 120	P	05/01/2025	14:01	LB135636
	Potassium	2130	2000	106	80 - 120	P	05/01/2025	14:01	LB135636
	Selenium	22.9	20.0	114	80 - 120	P	05/01/2025	14:01	LB135636
	Silver	10.2	10.0	102	80 - 120	P	05/01/2025	14:01	LB135636
	Sodium	2030	2000	102	80 - 120	P	05/01/2025	14:01	LB135636
	Thallium	42.0	40.0	105	80 - 120	P	05/01/2025	14:01	LB135636
	Vanadium	41.1	40.0	103	80 - 120	P	05/01/2025	14:01	LB135636
	Zinc	43.0	40.0	108	80 - 120	P	05/01/2025	14:01	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Antimony	5110	5000	102	90 - 110	P	05/01/2025	15:05	LB135636
	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	15:05	LB135636
	Barium	9650	10000	96	90 - 110	P	05/01/2025	15:05	LB135636
	Beryllium	256	250	102	90 - 110	P	05/01/2025	15:05	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	15:05	LB135636
	Calcium	24500	25000	98	90 - 110	P	05/01/2025	15:05	LB135636
	Chromium	1000	1000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Cobalt	2500	2500	100	90 - 110	P	05/01/2025	15:05	LB135636
	Copper	1280	1250	102	90 - 110	P	05/01/2025	15:05	LB135636
	Iron	4820	5000	96	90 - 110	P	05/01/2025	15:05	LB135636
	Lead	5010	5000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Magnesium	24600	25000	98	90 - 110	P	05/01/2025	15:05	LB135636
	Manganese	2450	2500	98	90 - 110	P	05/01/2025	15:05	LB135636
	Nickel	2500	2500	100	90 - 110	P	05/01/2025	15:05	LB135636
	Potassium	24100	25000	96	90 - 110	P	05/01/2025	15:05	LB135636
	Selenium	5140	5000	103	90 - 110	P	05/01/2025	15:05	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	15:05	LB135636
	Sodium	24000	25000	96	90 - 110	P	05/01/2025	15:05	LB135636
	Thallium	5140	5000	103	90 - 110	P	05/01/2025	15:05	LB135636
	Vanadium	2450	2500	98	90 - 110	P	05/01/2025	15:05	LB135636
	Zinc	2510	2500	100	90 - 110	P	05/01/2025	15:05	LB135636
CCV02	Aluminum	9810	10000	98	90 - 110	P	05/01/2025	16:00	LB135636
	Antimony	4970	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Arsenic	4930	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Barium	10200	10000	102	90 - 110	P	05/01/2025	16:00	LB135636
	Beryllium	230	250	92	90 - 110	P	05/01/2025	16:00	LB135636
	Cadmium	2470	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Calcium	24700	25000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Chromium	995	1000	100	90 - 110	P	05/01/2025	16:00	LB135636
	Cobalt	2480	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Copper	1250	1250	100	90 - 110	P	05/01/2025	16:00	LB135636
	Iron	5210	5000	104	90 - 110	P	05/01/2025	16:00	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	16:00	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24500	25000	98	90 - 110	P	05/01/2025	16:00	LB135636
	Manganese	2480	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Nickel	2480	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Potassium	25900	25000	104	90 - 110	P	05/01/2025	16:00	LB135636
	Selenium	4960	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Silver	1220	1250	98	90 - 110	P	05/01/2025	16:00	LB135636
	Sodium	25500	25000	102	90 - 110	P	05/01/2025	16:00	LB135636
	Thallium	5100	5000	102	90 - 110	P	05/01/2025	16:00	LB135636
	Vanadium	2480	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Zinc	2460	2500	98	90 - 110	P	05/01/2025	16:00	LB135636
CCV03	Aluminum	9800	10000	98	90 - 110	P	05/01/2025	17:03	LB135636
	Antimony	5040	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Arsenic	5040	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Barium	9950	10000	100	90 - 110	P	05/01/2025	17:03	LB135636
	Beryllium	228	250	91	90 - 110	P	05/01/2025	17:03	LB135636
	Cadmium	2510	2500	100	90 - 110	P	05/01/2025	17:03	LB135636
	Calcium	24400	25000	98	90 - 110	P	05/01/2025	17:03	LB135636
	Chromium	988	1000	99	90 - 110	P	05/01/2025	17:03	LB135636
	Cobalt	2500	2500	100	90 - 110	P	05/01/2025	17:03	LB135636
	Copper	1270	1250	102	90 - 110	P	05/01/2025	17:03	LB135636
	Iron	5240	5000	105	90 - 110	P	05/01/2025	17:03	LB135636
	Lead	5010	5000	100	90 - 110	P	05/01/2025	17:03	LB135636
	Magnesium	24200	25000	97	90 - 110	P	05/01/2025	17:03	LB135636
	Manganese	2440	2500	98	90 - 110	P	05/01/2025	17:03	LB135636
	Nickel	2500	2500	100	90 - 110	P	05/01/2025	17:03	LB135636
	Potassium	25600	25000	102	90 - 110	P	05/01/2025	17:03	LB135636
	Selenium	5060	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Silver	1220	1250	97	90 - 110	P	05/01/2025	17:03	LB135636
	Sodium	25300	25000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Thallium	5140	5000	103	90 - 110	P	05/01/2025	17:03	LB135636
	Vanadium	2470	2500	99	90 - 110	P	05/01/2025	17:03	LB135636
	Zinc	2460	2500	99	90 - 110	P	05/01/2025	17:03	LB135636
CCV04	Aluminum	9890	10000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Antimony	5210	5000	104	90 - 110	P	05/01/2025	17:49	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5160	5000	103	90 - 110	P	05/01/2025	17:49	LB135636
	Barium	10000	10000	100	90 - 110	P	05/01/2025	17:49	LB135636
	Beryllium	229	250	92	90 - 110	P	05/01/2025	17:49	LB135636
	Cadmium	2470	2500	99	90 - 110	P	05/01/2025	17:49	LB135636
	Calcium	24000	25000	96	90 - 110	P	05/01/2025	17:49	LB135636
	Chromium	987	1000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Cobalt	2480	2500	99	90 - 110	P	05/01/2025	17:49	LB135636
	Copper	1290	1250	103	90 - 110	P	05/01/2025	17:49	LB135636
	Iron	5260	5000	105	90 - 110	P	05/01/2025	17:49	LB135636
	Lead	4950	5000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Magnesium	23600	25000	94	90 - 110	P	05/01/2025	17:49	LB135636
	Manganese	2400	2500	96	90 - 110	P	05/01/2025	17:49	LB135636
	Nickel	2480	2500	99	90 - 110	P	05/01/2025	17:49	LB135636
	Potassium	26300	25000	105	90 - 110	P	05/01/2025	17:49	LB135636
	Selenium	5240	5000	105	90 - 110	P	05/01/2025	17:49	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	17:49	LB135636
	Sodium	26500	25000	106	90 - 110	P	05/01/2025	17:49	LB135636
	Thallium	5130	5000	103	90 - 110	P	05/01/2025	17:49	LB135636
	Vanadium	2450	2500	98	90 - 110	P	05/01/2025	17:49	LB135636
	Zinc	2540	2500	102	90 - 110	P	05/01/2025	17:49	LB135636
CCV05	Aluminum	9820	10000	98	90 - 110	P	05/01/2025	18:36	LB135636
	Antimony	5100	5000	102	90 - 110	P	05/01/2025	18:36	LB135636
	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	18:36	LB135636
	Barium	9950	10000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Beryllium	234	250	94	90 - 110	P	05/01/2025	18:36	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	18:36	LB135636
	Calcium	24100	25000	96	90 - 110	P	05/01/2025	18:36	LB135636
	Chromium	984	1000	98	90 - 110	P	05/01/2025	18:36	LB135636
	Cobalt	2490	2500	100	90 - 110	P	05/01/2025	18:36	LB135636
	Copper	1270	1250	102	90 - 110	P	05/01/2025	18:36	LB135636
	Iron	4990	5000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Magnesium	23800	25000	95	90 - 110	P	05/01/2025	18:36	LB135636
	Manganese	2410	2500	96	90 - 110	P	05/01/2025	18:36	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2500	2500	100	90 - 110	P	05/01/2025	18:36	LB135636
	Potassium	25000	25000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Selenium	5150	5000	103	90 - 110	P	05/01/2025	18:36	LB135636
	Silver	1230	1250	98	90 - 110	P	05/01/2025	18:36	LB135636
	Sodium	25000	25000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Thallium	5200	5000	104	90 - 110	P	05/01/2025	18:36	LB135636
	Vanadium	2450	2500	98	90 - 110	P	05/01/2025	18:36	LB135636
	Zinc	2500	2500	100	90 - 110	P	05/01/2025	18:36	LB135636
CCV06	Aluminum	9920	10000	99	90 - 110	P	05/01/2025	19:23	LB135636
	Antimony	5030	5000	101	90 - 110	P	05/01/2025	19:23	LB135636
	Arsenic	4990	5000	100	90 - 110	P	05/01/2025	19:23	LB135636
	Barium	9830	10000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Beryllium	247	250	99	90 - 110	P	05/01/2025	19:23	LB135636
	Cadmium	2460	2500	98	90 - 110	P	05/01/2025	19:23	LB135636
	Calcium	23900	25000	96	90 - 110	P	05/01/2025	19:23	LB135636
	Chromium	980	1000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Cobalt	2460	2500	98	90 - 110	P	05/01/2025	19:23	LB135636
	Copper	1260	1250	101	90 - 110	P	05/01/2025	19:23	LB135636
	Iron	4800	5000	96	90 - 110	P	05/01/2025	19:23	LB135636
	Lead	4920	5000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Magnesium	23800	25000	95	90 - 110	P	05/01/2025	19:23	LB135636
	Manganese	2410	2500	96	90 - 110	P	05/01/2025	19:23	LB135636
	Nickel	2460	2500	98	90 - 110	P	05/01/2025	19:23	LB135636
	Potassium	24500	25000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Selenium	5030	5000	101	90 - 110	P	05/01/2025	19:23	LB135636
	Silver	1240	1250	99	90 - 110	P	05/01/2025	19:23	LB135636
	Sodium	24700	25000	99	90 - 110	P	05/01/2025	19:23	LB135636
	Thallium	5200	5000	104	90 - 110	P	05/01/2025	19:23	LB135636
	Vanadium	2450	2500	98	90 - 110	P	05/01/2025	19:23	LB135636
	Zinc	2520	2500	101	90 - 110	P	05/01/2025	19:23	LB135636
CCV07	Aluminum	9850	10000	98	90 - 110	P	05/01/2025	20:11	LB135636
	Antimony	5070	5000	101	90 - 110	P	05/01/2025	20:11	LB135636
	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	20:11	LB135636
	Barium	9790	10000	98	90 - 110	P	05/01/2025	20:11	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	251	250	100	90 - 110	P	05/01/2025	20:11	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	20:11	LB135636
	Calcium	24200	25000	97	90 - 110	P	05/01/2025	20:11	LB135636
	Chromium	995	1000	100	90 - 110	P	05/01/2025	20:11	LB135636
	Cobalt	2490	2500	100	90 - 110	P	05/01/2025	20:11	LB135636
	Copper	1270	1250	102	90 - 110	P	05/01/2025	20:11	LB135636
	Iron	4840	5000	97	90 - 110	P	05/01/2025	20:11	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	20:11	LB135636
	Magnesium	24300	25000	97	90 - 110	P	05/01/2025	20:11	LB135636
	Manganese	2420	2500	97	90 - 110	P	05/01/2025	20:11	LB135636
	Nickel	2500	2500	100	90 - 110	P	05/01/2025	20:11	LB135636
	Potassium	24200	25000	97	90 - 110	P	05/01/2025	20:11	LB135636
	Selenium	5120	5000	102	90 - 110	P	05/01/2025	20:11	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	20:11	LB135636
	Sodium	24500	25000	98	90 - 110	P	05/01/2025	20:11	LB135636
	Thallium	5190	5000	104	90 - 110	P	05/01/2025	20:11	LB135636
	Vanadium	2450	2500	98	90 - 110	P	05/01/2025	20:11	LB135636
	Zinc	2530	2500	101	90 - 110	P	05/01/2025	20:11	LB135636
CCV08	Aluminum	9910	10000	99	90 - 110	P	05/01/2025	20:24	LB135636
	Antimony	5230	5000	105	90 - 110	P	05/01/2025	20:24	LB135636
	Arsenic	5180	5000	104	90 - 110	P	05/01/2025	20:24	LB135636
	Barium	9880	10000	99	90 - 110	P	05/01/2025	20:24	LB135636
	Beryllium	242	250	97	90 - 110	P	05/01/2025	20:24	LB135636
	Cadmium	2490	2500	100	90 - 110	P	05/01/2025	20:24	LB135636
	Calcium	24100	25000	96	90 - 110	P	05/01/2025	20:24	LB135636
	Chromium	980	1000	98	90 - 110	P	05/01/2025	20:24	LB135636
	Cobalt	2500	2500	100	90 - 110	P	05/01/2025	20:24	LB135636
	Copper	1290	1250	104	90 - 110	P	05/01/2025	20:24	LB135636
	Iron	4920	5000	98	90 - 110	P	05/01/2025	20:24	LB135636
	Lead	4990	5000	100	90 - 110	P	05/01/2025	20:24	LB135636
	Magnesium	23800	25000	95	90 - 110	P	05/01/2025	20:24	LB135636
	Manganese	2420	2500	97	90 - 110	P	05/01/2025	20:24	LB135636
	Nickel	2500	2500	100	90 - 110	P	05/01/2025	20:24	LB135636
	Potassium	24700	25000	99	90 - 110	P	05/01/2025	20:24	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5270	5000	105	90 - 110	P	05/01/2025	20:24	LB135636
	Silver	1240	1250	99	90 - 110	P	05/01/2025	20:24	LB135636
	Sodium	25000	25000	100	90 - 110	P	05/01/2025	20:24	LB135636
	Thallium	5150	5000	103	90 - 110	P	05/01/2025	20:24	LB135636
	Vanadium	2450	2500	98	90 - 110	P	05/01/2025	20:24	LB135636
	Zinc	2500	2500	100	90 - 110	P	05/01/2025	20:24	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2400	2500	96	90 - 110	P	05/06/2025	14:47	LB135689
	Antimony	972	1000	97	90 - 110	P	05/06/2025	14:47	LB135689
	Arsenic	976	1000	98	90 - 110	P	05/06/2025	14:47	LB135689
	Barium	531	520	102	90 - 110	P	05/06/2025	14:47	LB135689
	Beryllium	552	510	108	90 - 110	P	05/06/2025	14:47	LB135689
	Cadmium	498	510	98	90 - 110	P	05/06/2025	14:47	LB135689
	Calcium	9500	10000	95	90 - 110	P	05/06/2025	14:47	LB135689
	Chromium	498	520	96	90 - 110	P	05/06/2025	14:47	LB135689
	Cobalt	487	520	94	90 - 110	P	05/06/2025	14:47	LB135689
	Copper	500	510	98	90 - 110	P	05/06/2025	14:47	LB135689
	Iron	10500	10000	105	90 - 110	P	05/06/2025	14:47	LB135689
	Lead	975	1000	98	90 - 110	P	05/06/2025	14:47	LB135689
	Magnesium	5640	6000	94	90 - 110	P	05/06/2025	14:47	LB135689
	Manganese	493	520	95	90 - 110	P	05/06/2025	14:47	LB135689
	Nickel	492	530	93	90 - 110	P	05/06/2025	14:47	LB135689
	Potassium	10100	9900	102	90 - 110	P	05/06/2025	14:47	LB135689
	Selenium	1000	1000	100	90 - 110	P	05/06/2025	14:47	LB135689
	Silver	232	250	93	90 - 110	P	05/06/2025	14:47	LB135689
	Sodium	10000	10000	100	90 - 110	P	05/06/2025	14:47	LB135689
	Thallium	1000	1000	100	90 - 110	P	05/06/2025	14:47	LB135689
	Vanadium	478	500	96	90 - 110	P	05/06/2025	14:47	LB135689
	Zinc	975	1000	98	90 - 110	P	05/06/2025	14:47	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	105	100	105	80 - 120	P	05/06/2025	15:22	LB135689
	Antimony	50.3	50.0	101	80 - 120	P	05/06/2025	15:22	LB135689
	Arsenic	18.2	20.0	91	80 - 120	P	05/06/2025	15:22	LB135689
	Barium	91.5	100	92	80 - 120	P	05/06/2025	15:22	LB135689
	Beryllium	5.90	6.0	98	80 - 120	P	05/06/2025	15:22	LB135689
	Cadmium	5.98	6.0	100	80 - 120	P	05/06/2025	15:22	LB135689
	Calcium	1930	2000	96	80 - 120	P	05/06/2025	15:22	LB135689
	Chromium	9.31	10.0	93	80 - 120	P	05/06/2025	15:22	LB135689
	Cobalt	28.6	30.0	95	80 - 120	P	05/06/2025	15:22	LB135689
	Copper	21.1	20.0	106	80 - 120	P	05/06/2025	15:22	LB135689
	Iron	98.2	100	98	80 - 120	P	05/06/2025	15:22	LB135689
	Lead	11.1	12.0	92	80 - 120	P	05/06/2025	15:22	LB135689
	Magnesium	2030	2000	102	80 - 120	P	05/06/2025	15:22	LB135689
	Manganese	19.6	20.0	98	80 - 120	P	05/06/2025	15:22	LB135689
	Nickel	38.9	40.0	97	80 - 120	P	05/06/2025	15:22	LB135689
	Potassium	1770	2000	88	80 - 120	P	05/06/2025	15:22	LB135689
	Selenium	19.1	20.0	95	80 - 120	P	05/06/2025	15:22	LB135689
	Silver	9.80	10.0	98	80 - 120	P	05/06/2025	15:22	LB135689
	Sodium	1790	2000	89	80 - 120	P	05/06/2025	15:22	LB135689
	Thallium	39.9	40.0	100	80 - 120	P	05/06/2025	15:22	LB135689
	Vanadium	38.0	40.0	95	80 - 120	P	05/06/2025	15:22	LB135689
	Zinc	40.4	40.0	101	80 - 120	P	05/06/2025	15:22	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9630	10000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Antimony	4790	5000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Arsenic	4780	5000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Barium	9340	10000	93	90 - 110	P	05/06/2025	16:29	LB135689
	Beryllium	249	250	100	90 - 110	P	05/06/2025	16:29	LB135689
	Cadmium	2390	2500	95	90 - 110	P	05/06/2025	16:29	LB135689
	Calcium	23900	25000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Chromium	998	1000	100	90 - 110	P	05/06/2025	16:29	LB135689
	Cobalt	2390	2500	96	90 - 110	P	05/06/2025	16:29	LB135689
	Copper	1210	1250	97	90 - 110	P	05/06/2025	16:29	LB135689
	Iron	5040	5000	101	90 - 110	P	05/06/2025	16:29	LB135689
	Lead	5030	5000	101	90 - 110	P	05/06/2025	16:29	LB135689
	Magnesium	23900	25000	95	90 - 110	P	05/06/2025	16:29	LB135689
	Manganese	2400	2500	96	90 - 110	P	05/06/2025	16:29	LB135689
	Nickel	2400	2500	96	90 - 110	P	05/06/2025	16:29	LB135689
	Potassium	23900	25000	95	90 - 110	P	05/06/2025	16:29	LB135689
	Selenium	4800	5000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Silver	1240	1250	99	90 - 110	P	05/06/2025	16:29	LB135689
	Sodium	24100	25000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Thallium	4670	5000	94	90 - 110	P	05/06/2025	16:29	LB135689
	Vanadium	2400	2500	96	90 - 110	P	05/06/2025	16:29	LB135689
	Zinc	2470	2500	99	90 - 110	P	05/06/2025	16:29	LB135689
CCV02	Aluminum	9480	10000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Antimony	4750	5000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Arsenic	4730	5000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Barium	9710	10000	97	90 - 110	P	05/06/2025	17:15	LB135689
	Beryllium	237	250	95	90 - 110	P	05/06/2025	17:15	LB135689
	Cadmium	2390	2500	96	90 - 110	P	05/06/2025	17:15	LB135689
	Calcium	24000	25000	96	90 - 110	P	05/06/2025	17:15	LB135689
	Chromium	962	1000	96	90 - 110	P	05/06/2025	17:15	LB135689
	Cobalt	2390	2500	96	90 - 110	P	05/06/2025	17:15	LB135689
	Copper	1200	1250	96	90 - 110	P	05/06/2025	17:15	LB135689
	Iron	5000	5000	100	90 - 110	P	05/06/2025	17:15	LB135689
	Lead	4890	5000	98	90 - 110	P	05/06/2025	17:15	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23700	25000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Manganese	2410	2500	96	90 - 110	P	05/06/2025	17:15	LB135689
	Nickel	2390	2500	96	90 - 110	P	05/06/2025	17:15	LB135689
	Potassium	24100	25000	96	90 - 110	P	05/06/2025	17:15	LB135689
	Selenium	4750	5000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Silver	1200	1250	96	90 - 110	P	05/06/2025	17:15	LB135689
	Sodium	24100	25000	96	90 - 110	P	05/06/2025	17:15	LB135689
	Thallium	4770	5000	96	90 - 110	P	05/06/2025	17:15	LB135689
	Vanadium	2390	2500	95	90 - 110	P	05/06/2025	17:15	LB135689
	Zinc	2410	2500	96	90 - 110	P	05/06/2025	17:15	LB135689
CCV03	Aluminum	9460	10000	95	90 - 110	P	05/06/2025	18:08	LB135689
	Antimony	4590	5000	92	90 - 110	P	05/06/2025	18:08	LB135689
	Arsenic	4570	5000	92	90 - 110	P	05/06/2025	18:08	LB135689
	Barium	9450	10000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Beryllium	240	250	96	90 - 110	P	05/06/2025	18:08	LB135689
	Cadmium	2340	2500	94	90 - 110	P	05/06/2025	18:08	LB135689
	Calcium	23700	25000	95	90 - 110	P	05/06/2025	18:08	LB135689
	Chromium	954	1000	95	90 - 110	P	05/06/2025	18:08	LB135689
	Cobalt	2340	2500	94	90 - 110	P	05/06/2025	18:08	LB135689
	Copper	1170	1250	94	90 - 110	P	05/06/2025	18:08	LB135689
	Iron	4700	5000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Lead	4690	5000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Magnesium	23600	25000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Manganese	2390	2500	95	90 - 110	P	05/06/2025	18:08	LB135689
	Nickel	2340	2500	94	90 - 110	P	05/06/2025	18:08	LB135689
	Potassium	23200	25000	93	90 - 110	P	05/06/2025	18:08	LB135689
	Selenium	4550	5000	91	90 - 110	P	05/06/2025	18:08	LB135689
	Silver	1180	1250	94	90 - 110	P	05/06/2025	18:08	LB135689
	Sodium	23300	25000	93	90 - 110	P	05/06/2025	18:08	LB135689
	Thallium	4710	5000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Vanadium	2360	2500	94	90 - 110	P	05/06/2025	18:08	LB135689
	Zinc	2370	2500	95	90 - 110	P	05/06/2025	18:08	LB135689
CCV04	Aluminum	9960	10000	100	90 - 110	P	05/06/2025	19:16	LB135689
	Antimony	4840	5000	97	90 - 110	P	05/06/2025	19:16	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4840	5000	97	90 - 110	P	05/06/2025	19:16	LB135689
	Barium	9930	10000	99	90 - 110	P	05/06/2025	19:16	LB135689
	Beryllium	264	250	106	90 - 110	P	05/06/2025	19:16	LB135689
	Cadmium	2470	2500	99	90 - 110	P	05/06/2025	19:16	LB135689
	Calcium	25000	25000	100	90 - 110	P	05/06/2025	19:16	LB135689
	Chromium	988	1000	99	90 - 110	P	05/06/2025	19:16	LB135689
	Cobalt	2470	2500	99	90 - 110	P	05/06/2025	19:16	LB135689
	Copper	1240	1250	99	90 - 110	P	05/06/2025	19:16	LB135689
	Iron	4820	5000	96	90 - 110	P	05/06/2025	19:16	LB135689
	Lead	4970	5000	99	90 - 110	P	05/06/2025	19:16	LB135689
	Magnesium	24900	25000	100	90 - 110	P	05/06/2025	19:16	LB135689
	Manganese	2530	2500	101	90 - 110	P	05/06/2025	19:16	LB135689
	Nickel	2470	2500	99	90 - 110	P	05/06/2025	19:16	LB135689
	Potassium	23600	25000	94	90 - 110	P	05/06/2025	19:16	LB135689
	Selenium	4820	5000	96	90 - 110	P	05/06/2025	19:16	LB135689
	Silver	1240	1250	99	90 - 110	P	05/06/2025	19:16	LB135689
	Sodium	23500	25000	94	90 - 110	P	05/06/2025	19:16	LB135689
	Thallium	4760	5000	95	90 - 110	P	05/06/2025	19:16	LB135689
	Vanadium	2470	2500	99	90 - 110	P	05/06/2025	19:16	LB135689
	Zinc	2490	2500	100	90 - 110	P	05/06/2025	19:16	LB135689
CCV05	Aluminum	10000	10000	100	90 - 110	P	05/06/2025	20:01	LB135689
	Antimony	4800	5000	96	90 - 110	P	05/06/2025	20:01	LB135689
	Arsenic	4780	5000	96	90 - 110	P	05/06/2025	20:01	LB135689
	Barium	9940	10000	99	90 - 110	P	05/06/2025	20:01	LB135689
	Beryllium	260	250	104	90 - 110	P	05/06/2025	20:01	LB135689
	Cadmium	2460	2500	99	90 - 110	P	05/06/2025	20:01	LB135689
	Calcium	25000	25000	100	90 - 110	P	05/06/2025	20:01	LB135689
	Chromium	995	1000	100	90 - 110	P	05/06/2025	20:01	LB135689
	Cobalt	2450	2500	98	90 - 110	P	05/06/2025	20:01	LB135689
	Copper	1230	1250	98	90 - 110	P	05/06/2025	20:01	LB135689
	Iron	4860	5000	97	90 - 110	P	05/06/2025	20:01	LB135689
	Lead	4900	5000	98	90 - 110	P	05/06/2025	20:01	LB135689
	Magnesium	25000	25000	100	90 - 110	P	05/06/2025	20:01	LB135689
	Manganese	2520	2500	101	90 - 110	P	05/06/2025	20:01	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2450	2500	98	90 - 110	P	05/06/2025	20:01	LB135689
	Potassium	23700	25000	95	90 - 110	P	05/06/2025	20:01	LB135689
	Selenium	4730	5000	95	90 - 110	P	05/06/2025	20:01	LB135689
	Silver	1230	1250	99	90 - 110	P	05/06/2025	20:01	LB135689
	Sodium	23700	25000	95	90 - 110	P	05/06/2025	20:01	LB135689
	Thallium	4800	5000	96	90 - 110	P	05/06/2025	20:01	LB135689
	Vanadium	2470	2500	99	90 - 110	P	05/06/2025	20:01	LB135689
	Zinc	2480	2500	99	90 - 110	P	05/06/2025	20:01	LB135689
CCV06	Aluminum	9830	10000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Antimony	4880	5000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Arsenic	4840	5000	97	90 - 110	P	05/06/2025	20:31	LB135689
	Barium	9850	10000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Beryllium	241	250	96	90 - 110	P	05/06/2025	20:31	LB135689
	Cadmium	2440	2500	98	90 - 110	P	05/06/2025	20:31	LB135689
	Calcium	24400	25000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Chromium	975	1000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Cobalt	2430	2500	97	90 - 110	P	05/06/2025	20:31	LB135689
	Copper	1240	1250	99	90 - 110	P	05/06/2025	20:31	LB135689
	Iron	4920	5000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Lead	4870	5000	97	90 - 110	P	05/06/2025	20:31	LB135689
	Magnesium	24300	25000	97	90 - 110	P	05/06/2025	20:31	LB135689
	Manganese	2440	2500	98	90 - 110	P	05/06/2025	20:31	LB135689
	Nickel	2430	2500	97	90 - 110	P	05/06/2025	20:31	LB135689
	Potassium	24200	25000	97	90 - 110	P	05/06/2025	20:31	LB135689
	Selenium	4820	5000	96	90 - 110	P	05/06/2025	20:31	LB135689
	Silver	1210	1250	97	90 - 110	P	05/06/2025	20:31	LB135689
	Sodium	24400	25000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Thallium	4750	5000	95	90 - 110	P	05/06/2025	20:31	LB135689
	Vanadium	2430	2500	97	90 - 110	P	05/06/2025	20:31	LB135689
	Zinc	2440	2500	98	90 - 110	P	05/06/2025	20:31	LB135689

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	106	40 - 160	CV	04/30/2025	13:45	LB135611
CRI01	Aluminum	97.5	100	98	40 - 160	P	04/30/2025	16:41	LB135614
	Antimony	54.6	50.0	109	40 - 160	P	04/30/2025	16:41	LB135614
	Arsenic	21.9	20.0	109	40 - 160	P	04/30/2025	16:41	LB135614
	Barium	90.6	100	91	40 - 160	P	04/30/2025	16:41	LB135614
	Beryllium	6.30	6.0	105	40 - 160	P	04/30/2025	16:41	LB135614
	Cadmium	6.34	6.0	106	40 - 160	P	04/30/2025	16:41	LB135614
	Calcium	2030	2000	101	40 - 160	P	04/30/2025	16:41	LB135614
	Chromium	9.88	10.0	99	40 - 160	P	04/30/2025	16:41	LB135614
	Cobalt	30.3	30.0	101	40 - 160	P	04/30/2025	16:41	LB135614
	Copper	23.2	20.0	116	40 - 160	P	04/30/2025	16:41	LB135614
	Iron	90.9	100	91	40 - 160	P	04/30/2025	16:41	LB135614
	Lead	13.5	12.0	112	40 - 160	P	04/30/2025	16:41	LB135614
	Magnesium	2140	2000	107	40 - 160	P	04/30/2025	16:41	LB135614
	Manganese	21.0	20.0	105	40 - 160	P	04/30/2025	16:41	LB135614
	Nickel	41.3	40.0	103	40 - 160	P	04/30/2025	16:41	LB135614
	Potassium	2030	2000	101	40 - 160	P	04/30/2025	16:41	LB135614
	Selenium	16.5	20.0	82	40 - 160	P	04/30/2025	16:41	LB135614
	Silver	10.8	10.0	108	40 - 160	P	04/30/2025	16:41	LB135614
	Sodium	1740	2000	87	40 - 160	P	04/30/2025	16:41	LB135614
	Thallium	44.9	40.0	112	40 - 160	P	04/30/2025	16:41	LB135614
	Vanadium	38.9	40.0	97	40 - 160	P	04/30/2025	16:41	LB135614
	Zinc	42.8	40.0	107	40 - 160	P	04/30/2025	16:41	LB135614
CRA	Mercury	0.17	0.2	86	40 - 160	CV	05/01/2025	12:05	LB135623
CRI01	Aluminum	101	100	101	40 - 160	P	05/01/2025	14:16	LB135636
	Antimony	53.6	50.0	107	40 - 160	P	05/01/2025	14:16	LB135636
	Arsenic	23.3	20.0	116	40 - 160	P	05/01/2025	14:16	LB135636
	Barium	93.6	100	94	40 - 160	P	05/01/2025	14:16	LB135636
	Beryllium	6.02	6.0	100	40 - 160	P	05/01/2025	14:16	LB135636
	Cadmium	6.36	6.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Calcium	2030	2000	102	40 - 160	P	05/01/2025	14:16	LB135636
	Chromium	10.6	10.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Cobalt	30.7	30.0	102	40 - 160	P	05/01/2025	14:16	LB135636
	Copper	23.1	20.0	116	40 - 160	P	05/01/2025	14:16	LB135636
	Iron	104	100	104	40 - 160	P	05/01/2025	14:16	LB135636

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	13.3	12.0	111	40 - 160	P	05/01/2025	14:16	LB135636
	Magnesium	2150	2000	108	40 - 160	P	05/01/2025	14:16	LB135636
	Manganese	20.7	20.0	104	40 - 160	P	05/01/2025	14:16	LB135636
	Nickel	41.9	40.0	105	40 - 160	P	05/01/2025	14:16	LB135636
	Potassium	2180	2000	109	40 - 160	P	05/01/2025	14:16	LB135636
	Selenium	23.1	20.0	115	40 - 160	P	05/01/2025	14:16	LB135636
	Silver	10.6	10.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Sodium	2040	2000	102	40 - 160	P	05/01/2025	14:16	LB135636
	Thallium	44.6	40.0	112	40 - 160	P	05/01/2025	14:16	LB135636
	Vanadium	41.6	40.0	104	40 - 160	P	05/01/2025	14:16	LB135636
	Zinc	42.5	40.0	106	40 - 160	P	05/01/2025	14:16	LB135636
CRI01	Aluminum	102	100	102	40 - 160	P	05/06/2025	15:31	LB135689
	Antimony	50.4	50.0	101	40 - 160	P	05/06/2025	15:31	LB135689
	Arsenic	20.3	20.0	101	40 - 160	P	05/06/2025	15:31	LB135689
	Barium	89.4	100	89	40 - 160	P	05/06/2025	15:31	LB135689
	Beryllium	5.91	6.0	98	40 - 160	P	05/06/2025	15:31	LB135689
	Cadmium	5.91	6.0	98	40 - 160	P	05/06/2025	15:31	LB135689
	Calcium	1950	2000	97	40 - 160	P	05/06/2025	15:31	LB135689
	Chromium	9.54	10.0	95	40 - 160	P	05/06/2025	15:31	LB135689
	Cobalt	28.3	30.0	94	40 - 160	P	05/06/2025	15:31	LB135689
	Copper	21.6	20.0	108	40 - 160	P	05/06/2025	15:31	LB135689
	Iron	95.6	100	96	40 - 160	P	05/06/2025	15:31	LB135689
	Lead	10.0	12.0	83	40 - 160	P	05/06/2025	15:31	LB135689
	Magnesium	2050	2000	102	40 - 160	P	05/06/2025	15:31	LB135689
	Manganese	19.8	20.0	99	40 - 160	P	05/06/2025	15:31	LB135689
	Nickel	38.6	40.0	97	40 - 160	P	05/06/2025	15:31	LB135689
	Potassium	1730	2000	87	40 - 160	P	05/06/2025	15:31	LB135689
	Selenium	22.5	20.0	112	40 - 160	P	05/06/2025	15:31	LB135689
	Silver	9.66	10.0	97	40 - 160	P	05/06/2025	15:31	LB135689
	Sodium	1760	2000	88	40 - 160	P	05/06/2025	15:31	LB135689
	Thallium	37.5	40.0	94	40 - 160	P	05/06/2025	15:31	LB135689
	Vanadium	39.4	40.0	98	40 - 160	P	05/06/2025	15:31	LB135689
	Zinc	39.7	40.0	99	40 - 160	P	05/06/2025	15:31	LB135689

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	238000	255000	93	216000	294000	04/30/2025	16:46	LB135614
	Antimony	-3.45			-50	50	04/30/2025	16:46	LB135614
	Arsenic	5.92			-20	20	04/30/2025	16:46	LB135614
	Barium	2.05	6.0	34	-94	106	04/30/2025	16:46	LB135614
	Beryllium	0.57			-6	6	04/30/2025	16:46	LB135614
	Cadmium	-2.34	1.0	234	-5	7	04/30/2025	16:46	LB135614
	Calcium	229000	245000	94	208000	282000	04/30/2025	16:46	LB135614
	Chromium	56.4	52.0	108	42	62	04/30/2025	16:46	LB135614
	Cobalt	0.78			-30	30	04/30/2025	16:46	LB135614
	Copper	1.85	2.0	92	-18	22	04/30/2025	16:46	LB135614
	Iron	102000	101000	101	85600	116500	04/30/2025	16:46	LB135614
	Lead	-0.96			-12	12	04/30/2025	16:46	LB135614
	Magnesium	245000	255000	96	216000	294000	04/30/2025	16:46	LB135614
	Manganese	1.20	7.0	17	-13	27	04/30/2025	16:46	LB135614
	Nickel	1.86	2.0	93	-38	42	04/30/2025	16:46	LB135614
	Potassium	131			0	0	04/30/2025	16:46	LB135614
	Selenium	-1.87			-20	20	04/30/2025	16:46	LB135614
	Silver	1.91			-10	10	04/30/2025	16:46	LB135614
	Sodium	-8.38			0	0	04/30/2025	16:46	LB135614
	Thallium	11.1			-40	40	04/30/2025	16:46	LB135614
	Vanadium	1.35			-40	40	04/30/2025	16:46	LB135614
	Zinc	3.18			-40	40	04/30/2025	16:46	LB135614
ICSAB01	Aluminum	234000	247000	95	209000	285000	04/30/2025	17:04	LB135614
	Antimony	633	618	102	525	711	04/30/2025	17:04	LB135614
	Arsenic	117	104	112	88.4	120	04/30/2025	17:04	LB135614
	Barium	496	537	92	437	637	04/30/2025	17:04	LB135614
	Beryllium	514	495	104	420	570	04/30/2025	17:04	LB135614
	Cadmium	1090	972	112	826	1120	04/30/2025	17:04	LB135614
	Calcium	225000	235000	96	199000	271000	04/30/2025	17:04	LB135614
	Chromium	600	542	111	460	624	04/30/2025	17:04	LB135614
	Cobalt	531	476	112	404	548	04/30/2025	17:04	LB135614
	Copper	502	511	98	434	588	04/30/2025	17:04	LB135614
	Iron	97700	99300	98	84400	114500	04/30/2025	17:04	LB135614
	Lead	50.9	49.0	104	37	61	04/30/2025	17:04	LB135614
	Magnesium	242000	248000	98	210000	286000	04/30/2025	17:04	LB135614
	Manganese	496	507	98	430	584	04/30/2025	17:04	LB135614
	Nickel	1050	954	110	810	1100	04/30/2025	17:04	LB135614
	Potassium	109			0	0	04/30/2025	17:04	LB135614
	Selenium	50.9	46.0	111	26	66	04/30/2025	17:04	LB135614
	Silver	205	201	102	170	232	04/30/2025	17:04	LB135614
	Sodium	-15.6			0	0	04/30/2025	17:04	LB135614
	Thallium	118	108	109	68	148	04/30/2025	17:04	LB135614

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	489	491	100	417	565	04/30/2025	17:04	LB135614
	Zinc	1090	952	114	809	1095	04/30/2025	17:04	LB135614
ICSA01	Aluminum	228000	255000	89	216000	294000	05/01/2025	14:35	LB135636
	Antimony	-5.48			-50	50	05/01/2025	14:35	LB135636
	Arsenic	2.11			-20	20	05/01/2025	14:35	LB135636
	Barium	0.52	6.0	9	-94	106	05/01/2025	14:35	LB135636
	Beryllium	1.18			-6	6	05/01/2025	14:35	LB135636
	Cadmium	-4.57	1.0	457	-5	7	05/01/2025	14:35	LB135636
	Calcium	215000	245000	88	208000	282000	05/01/2025	14:35	LB135636
	Chromium	53.0	52.0	102	42	62	05/01/2025	14:35	LB135636
	Cobalt	0.28			-30	30	05/01/2025	14:35	LB135636
	Copper	5.64	2.0	282	-18	22	05/01/2025	14:35	LB135636
	Iron	96900	101000	96	85600	116500	05/01/2025	14:35	LB135636
	Lead	-4.15			-12	12	05/01/2025	14:35	LB135636
	Magnesium	227000	255000	89	216000	294000	05/01/2025	14:35	LB135636
	Manganese	1.74	7.0	25	-13	27	05/01/2025	14:35	LB135636
	Nickel	2.25	2.0	112	-38	42	05/01/2025	14:35	LB135636
	Potassium	96.2			0	0	05/01/2025	14:35	LB135636
	Selenium	-9.38			-20	20	05/01/2025	14:35	LB135636
	Silver	1.45			-10	10	05/01/2025	14:35	LB135636
	Sodium	-18.9			0	0	05/01/2025	14:35	LB135636
	Thallium	6.42			-40	40	05/01/2025	14:35	LB135636
	Vanadium	2.55			-40	40	05/01/2025	14:35	LB135636
	Zinc	1.75			-40	40	05/01/2025	14:35	LB135636
ICSAB01	Aluminum	238000	247000	96	209000	285000	05/01/2025	14:39	LB135636
	Antimony	668	618	108	525	711	05/01/2025	14:39	LB135636
	Arsenic	120	104	115	88.4	120	05/01/2025	14:39	LB135636
	Barium	487	537	91	437	637	05/01/2025	14:39	LB135636
	Beryllium	530	495	107	420	570	05/01/2025	14:39	LB135636
	Cadmium	1080	972	111	826	1120	05/01/2025	14:39	LB135636
	Calcium	221000	235000	94	199000	271000	05/01/2025	14:39	LB135636
	Chromium	583	542	108	460	624	05/01/2025	14:39	LB135636
	Cobalt	532	476	112	404	548	05/01/2025	14:39	LB135636
	Copper	540	511	106	434	588	05/01/2025	14:39	LB135636
	Iron	90200	99300	91	84400	114500	05/01/2025	14:39	LB135636
	Lead	52.5	49.0	107	37	61	05/01/2025	14:39	LB135636
	Magnesium	237000	248000	96	210000	286000	05/01/2025	14:39	LB135636
	Manganese	494	507	97	430	584	05/01/2025	14:39	LB135636
	Nickel	1060	954	111	810	1100	05/01/2025	14:39	LB135636
	Potassium	135			0	0	05/01/2025	14:39	LB135636
	Selenium	45.9	46.0	100	26	66	05/01/2025	14:39	LB135636
	Silver	203	201	101	170	232	05/01/2025	14:39	LB135636

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-8.61			0	0	05/01/2025	14:39	LB135636
	Thallium	118	108	109	68	148	05/01/2025	14:39	LB135636
	Vanadium	492	491	100	417	565	05/01/2025	14:39	LB135636
	Zinc	1090	952	114	809	1095	05/01/2025	14:39	LB135636
ICSA01	Aluminum	237000	255000	93	216000	294000	05/06/2025	15:50	LB135689
	Antimony	-1.78			-50	50	05/06/2025	15:50	LB135689
	Arsenic	4.12			-20	20	05/06/2025	15:50	LB135689
	Barium	2.93	6.0	49	-94	106	05/06/2025	15:50	LB135689
	Beryllium	1.32			-6	6	05/06/2025	15:50	LB135689
	Cadmium	-2.60	1.0	260	-5	7	05/06/2025	15:50	LB135689
	Calcium	225000	245000	92	208000	282000	05/06/2025	15:50	LB135689
	Chromium	52.9	52.0	102	42	62	05/06/2025	15:50	LB135689
	Cobalt	0.63			-30	30	05/06/2025	15:50	LB135689
	Copper	-0.0080	2.0		-18	22	05/06/2025	15:50	LB135689
	Iron	91100	101000	90	85600	116500	05/06/2025	15:50	LB135689
	Lead	0.71			-12	12	05/06/2025	15:50	LB135689
	Magnesium	240000	255000	94	216000	294000	05/06/2025	15:50	LB135689
	Manganese	1.70	7.0	24	-13	27	05/06/2025	15:50	LB135689
	Nickel	1.98	2.0	99	-38	42	05/06/2025	15:50	LB135689
	Potassium	-66.1			0	0	05/06/2025	15:50	LB135689
	Selenium	-10.5			-20	20	05/06/2025	15:50	LB135689
	Silver	0.23			-10	10	05/06/2025	15:50	LB135689
	Sodium	-51.3			0	0	05/06/2025	15:50	LB135689
	Thallium	4.79			-40	40	05/06/2025	15:50	LB135689
	Vanadium	1.20			-40	40	05/06/2025	15:50	LB135689
	Zinc	3.59			-40	40	05/06/2025	15:50	LB135689
ICSAB01	Aluminum	230000	247000	93	209000	285000	05/06/2025	15:55	LB135689
	Antimony	641	618	104	525	711	05/06/2025	15:55	LB135689
	Arsenic	114	104	110	88.4	120	05/06/2025	15:55	LB135689
	Barium	512	537	95	437	637	05/06/2025	15:55	LB135689
	Beryllium	505	495	102	420	570	05/06/2025	15:55	LB135689
	Cadmium	1060	972	109	826	1120	05/06/2025	15:55	LB135689
	Calcium	220000	235000	94	199000	271000	05/06/2025	15:55	LB135689
	Chromium	576	542	106	460	624	05/06/2025	15:55	LB135689
	Cobalt	523	476	110	404	548	05/06/2025	15:55	LB135689
	Copper	516	511	101	434	588	05/06/2025	15:55	LB135689
	Iron	94200	99300	95	84400	114500	05/06/2025	15:55	LB135689
	Lead	48.7	49.0	99	37	61	05/06/2025	15:55	LB135689
	Magnesium	232000	248000	94	210000	286000	05/06/2025	15:55	LB135689
	Manganese	507	507	100	430	584	05/06/2025	15:55	LB135689
	Nickel	1040	954	109	810	1100	05/06/2025	15:55	LB135689
	Potassium	-56.0			0	0	05/06/2025	15:55	LB135689

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	41.3	46.0	90	26	66	05/06/2025	15:55	LB135689
	Silver	195	201	97	170	232	05/06/2025	15:55	LB135689
	Sodium	-60.0			0	0	05/06/2025	15:55	LB135689
	Thallium	112	108	104	68	148	05/06/2025	15:55	LB135689
	Vanadium	498	491	101	417	565	05/06/2025	15:55	LB135689
	Zinc	1070	952	112	809	1095	05/06/2025	15:55	LB135689

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QC
DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1896-03 **client id:** 295-BERGEN-FRACMS

Percent Solids for Sample: NA **Spiked ID:** Q1896-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.88		1.03		4.0	71	N	CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1896-03 **client id:** 295-BERGEN-FRACMSD

Percent Solids for Sample: NA **Spiked ID:** Q1896-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.80		1.03		4.0	69	N	CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Solid **sample id:** Q1901-02 **client id:** B-167-SB01MS

Percent Solids for Sample: 82.6 **Spiked ID:** Q1901-02MS **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.039		0.33	90		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Solid **sample id:** Q1901-02 **client id:** B-167-SB01MSD

Percent Solids for Sample: 82.6 **Spiked ID:** Q1901-02MSD **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.039		0.3	92		CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1901-06 **client id:** FB04262025MS

Percent Solids for Sample: NA **Spiked ID:** Q1901-06MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	906		6.11	J	1000	90		P
Antimony	ug/L	75 - 125	382		25.0	U	400	96		P
Arsenic	ug/L	75 - 125	372		10.0	U	400	93		P
Barium	ug/L	75 - 125	87.6		50.0	U	100	88		P
Beryllium	ug/L	75 - 125	81.0		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.0		3.00	U	100	92		P
Calcium	ug/L	75 - 125	476	J	1000	U	500	95		P
Chromium	ug/L	75 - 125	187		5.00	U	200	94		P
Cobalt	ug/L	75 - 125	91.3		15.0	U	100	91		P
Copper	ug/L	75 - 125	143		10.0	U	150	95		P
Iron	ug/L	75 - 125	1440		50.0	U	1500	96		P
Lead	ug/L	75 - 125	454		6.00	U	500	91		P
Magnesium	ug/L	75 - 125	894	J	1000	U	1000	89		P
Manganese	ug/L	75 - 125	91.6		6.66	J	100	85		P
Nickel	ug/L	75 - 125	230		20.0	U	250	92		P
Potassium	ug/L	75 - 125	4650		1000	U	5000	93		P
Selenium	ug/L	75 - 125	900		10.0	U	1000	90		P
Silver	ug/L	75 - 125	33.3		5.00	U	37.5	89		P
Sodium	ug/L	75 - 125	1380		1000	U	1500	92		P
Thallium	ug/L	75 - 125	952		20.0	U	1000	95		P
Vanadium	ug/L	75 - 125	138		20.0	U	150	92		P
Zinc	ug/L	75 - 125	100		20.0	U	100	100		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1901-06 **client id:** FB04262025MSD

Percent Solids for Sample: NA **Spiked ID:** Q1901-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	944		6.11	J	1000	94		P
Antimony	ug/L	75 - 125	393		25.0	U	400	98		P
Arsenic	ug/L	75 - 125	380		10.0	U	400	95		P
Barium	ug/L	75 - 125	89.6		50.0	U	100	90		P
Beryllium	ug/L	75 - 125	88.5		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	94.4		3.00	U	100	94		P
Calcium	ug/L	75 - 125	495	J	1000	U	500	99		P
Chromium	ug/L	75 - 125	196		5.00	U	200	98		P
Cobalt	ug/L	75 - 125	93.9		15.0	U	100	94		P
Copper	ug/L	75 - 125	147		10.0	U	150	98		P
Iron	ug/L	75 - 125	1450		50.0	U	1500	97		P
Lead	ug/L	75 - 125	465		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	940	J	1000	U	1000	94		P
Manganese	ug/L	75 - 125	98.3		6.66	J	100	92		P
Nickel	ug/L	75 - 125	236		20.0	U	250	94		P
Potassium	ug/L	75 - 125	4750		1000	U	5000	95		P
Selenium	ug/L	75 - 125	923		10.0	U	1000	92		P
Silver	ug/L	75 - 125	35.5		5.00	U	37.5	95		P
Sodium	ug/L	75 - 125	1420		1000	U	1500	95		P
Thallium	ug/L	75 - 125	959		20.0	U	1000	96		P
Vanadium	ug/L	75 - 125	143		20.0	U	150	95		P
Zinc	ug/L	75 - 125	98.4		20.0	U	100	98		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Solid **sample id:** Q1902-02 **client id:** 343MS

Percent Solids for Sample: 90.3 **Spiked ID:** Q1902-02MS **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8240		6010		100	2229		P
Antimony	mg/Kg	75 - 125	14.9		2.38	U	42.0	36	N	P
Arsenic	mg/Kg	75 - 125	39.6		2.97		42.0	87		P
Barium	mg/Kg	75 - 125	58.6		44.1		10.5	138		P
Beryllium	mg/Kg	75 - 125	10.3		0.40		10.5	95		P
Cadmium	mg/Kg	75 - 125	11.0		0.28	U	10.5	104		P
Calcium	mg/Kg	75 - 125	1100		817		52.5	535		P
Chromium	mg/Kg	75 - 125	33.0		10.6		21.0	107		P
Cobalt	mg/Kg	75 - 125	16.6		5.01		10.5	110		P
Copper	mg/Kg	75 - 125	28.0		11.1		15.7	107		P
Iron	mg/Kg	75 - 125	12800		11500		160	851		P
Lead	mg/Kg	75 - 125	93.6		32.1		52.5	117		P
Magnesium	mg/Kg	75 - 125	2320		1650		100	668		P
Manganese	mg/Kg	75 - 125	306		278		10.5	271		P
Nickel	mg/Kg	75 - 125	38.4		9.50		26.2	110		P
Potassium	mg/Kg	75 - 125	1180		627		520	107		P
Selenium	mg/Kg	75 - 125	84.8		0.25	J	100	85		P
Silver	mg/Kg	75 - 125	3.56		0.19	J	3.9	86		P
Sodium	mg/Kg	75 - 125	255		131		160	77		P
Thallium	mg/Kg	75 - 125	103		0.24	J	100	103		P
Vanadium	mg/Kg	75 - 125	31.2		14.5		15.7	107		P
Zinc	mg/Kg	75 - 125	71.3		47.4		10.5	227		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Solid **sample id:** Q1902-02 **client id:** 343MSD

Percent Solids for Sample: 90.3 **Spiked ID:** Q1902-02MSD **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6230		6010		91.9	239		P
Antimony	mg/Kg	75 - 125	14.0		2.38	U	36.8	38	N	P
Arsenic	mg/Kg	75 - 125	34.9		2.97		36.8	87		P
Barium	mg/Kg	75 - 125	55.3		44.1		9.2	122		P
Beryllium	mg/Kg	75 - 125	8.37		0.40		9.2	87		P
Cadmium	mg/Kg	75 - 125	9.35		0.28	U	9.2	102		P
Calcium	mg/Kg	75 - 125	944		817		46.0	276		P
Chromium	mg/Kg	75 - 125	27.8		10.6		18.4	93		P
Cobalt	mg/Kg	75 - 125	14.2		5.01		9.2	100		P
Copper	mg/Kg	75 - 125	21.7		11.1		13.8	77		P
Iron	mg/Kg	75 - 125	11300		11500		140	-161		P
Lead	mg/Kg	75 - 125	74.8		32.1		46.0	93		P
Magnesium	mg/Kg	75 - 125	1860		1650		91.9	223		P
Manganese	mg/Kg	75 - 125	331		278		9.2	585		P
Nickel	mg/Kg	75 - 125	33.2		9.50		23.0	103		P
Potassium	mg/Kg	75 - 125	1140		627		460	111		P
Selenium	mg/Kg	75 - 125	75.6		0.25	J	91.9	82		P
Silver	mg/Kg	75 - 125	3.26		0.19	J	3.4	90		P
Sodium	mg/Kg	75 - 125	240		131		140	78		P
Thallium	mg/Kg	75 - 125	90.5		0.24	J	91.9	98		P
Vanadium	mg/Kg	75 - 125	25.9		14.5		13.8	82		P
Zinc	mg/Kg	75 - 125	53.7		47.4		9.2	68		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Level:** LOW **Client ID:** 295-BERGEN-FRACA

Sample ID: Q1896-03 **Spiked ID:** Q1896-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.88		1.03		4.00	96		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Solid **Level:** LOW **Client ID:** 343A

Sample ID: Q1902-02 **Spiked ID:** Q1902-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	33.1		2.38	U	38.0	87		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1896-03 **Client ID:** 295-BERGEN-FRACDUP

Percent Solids for Sample: NA **Duplicate ID** Q1896-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	1.03		0.95		8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1896-03MS **Client ID:** 295-BERGEN-FRACMSD

Percent Solids for Sample: NA **Duplicate ID** Q1896-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.88		3.80		2		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Solid **Sample ID:** Q1901-02 **Client ID:** B-167-SB01DUP

Percent Solids for Sample: 82.6 **Duplicate ID** Q1901-02DUP **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.039		0.042		7		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Solid **Sample ID:** Q1901-02MS **Client ID:** B-167-SB01MSD

Percent Solids for Sample: 82.6 **Duplicate ID** Q1901-02MSD **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.34		0.31		7		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1901-06 **Client ID:** FB04262025DUP

Percent Solids for Sample: NA **Duplicate ID** Q1901-06DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	6.11	J	7.45	J	20		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	1000	U	1000	U			P
Chromium	ug/L	20	5.00	U	5.00	U			P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	50.0	U	23.7	J	200.0		P
Lead	ug/L	20	6.00	U	1.28	J	200.0		P
Magnesium	ug/L	20	1000	U	1000	U			P
Manganese	ug/L	20	6.66	J	5.10	J	27		P
Nickel	ug/L	20	20.0	U	20.0	U			P
Potassium	ug/L	20	1000	U	1000	U			P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	1000	U	1000	U			P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	20.0	U	20.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1901-06MS **Client ID:** FB04262025MSD

Percent Solids for Sample: NA **Duplicate ID** Q1901-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	906		944		4		P
Antimony	ug/L	20	382		393		3		P
Arsenic	ug/L	20	372		380		2		P
Barium	ug/L	20	87.6		89.6		2		P
Beryllium	ug/L	20	81.0		88.5		9		P
Cadmium	ug/L	20	92.0		94.4		3		P
Calcium	ug/L	20	476	J	495	J	4		P
Chromium	ug/L	20	187		196		5		P
Cobalt	ug/L	20	91.3		93.9		3		P
Copper	ug/L	20	143		147		3		P
Iron	ug/L	20	1440		1450		1		P
Lead	ug/L	20	454		465		2		P
Magnesium	ug/L	20	894	J	940	J	5		P
Manganese	ug/L	20	91.6		98.3		7		P
Nickel	ug/L	20	230		236		3		P
Potassium	ug/L	20	4650		4750		2		P
Selenium	ug/L	20	900		923		3		P
Silver	ug/L	20	33.3		35.5		6		P
Sodium	ug/L	20	1380		1420		3		P
Thallium	ug/L	20	952		959		1		P
Vanadium	ug/L	20	138		143		4		P
Zinc	ug/L	20	100		98.4		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Solid **Sample ID:** Q1902-02 **Client ID:** 343DUP

Percent Solids for Sample: 90.3 **Duplicate ID** Q1902-02DUP **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6010		6390		6		P
Antimony	mg/Kg	20	2.38	U	2.66	U			P
Arsenic	mg/Kg	20	2.97		3.16		6		P
Barium	mg/Kg	20	44.1		47.1		7		P
Beryllium	mg/Kg	20	0.40		0.44		11		P
Cadmium	mg/Kg	20	0.28	U	0.32	U			P
Calcium	mg/Kg	20	817		916		11		P
Chromium	mg/Kg	20	10.6		11.8		11		P
Cobalt	mg/Kg	20	5.01		5.11		2		P
Copper	mg/Kg	20	11.1		11.8		6		P
Iron	mg/Kg	20	11500		11900		3		P
Lead	mg/Kg	20	32.1		36.6		13		P
Magnesium	mg/Kg	20	1650		1730		5		P
Manganese	mg/Kg	20	278		285		2		P
Nickel	mg/Kg	20	9.50		9.74		2		P
Potassium	mg/Kg	20	627		640		2		P
Selenium	mg/Kg	20	0.25	J	1.06	U	200.0		P
Silver	mg/Kg	20	0.19	J	0.13	J	36		P
Sodium	mg/Kg	20	131		131		0		P
Thallium	mg/Kg	20	0.24	J	0.38	J	43		P
Vanadium	mg/Kg	20	14.5		15.9		9		P
Zinc	mg/Kg	20	47.4		50.7		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Solid **Sample ID:** Q1902-02MS **Client ID:** 343MSD

Percent Solids for Sample: 90.3 **Duplicate ID** Q1902-02MSD **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	8240		6230		28	*	P
Antimony	mg/Kg	20	14.9		14.0		6		P
Arsenic	mg/Kg	20	39.6		34.9		13		P
Barium	mg/Kg	20	58.6		55.3		6		P
Beryllium	mg/Kg	20	10.3		8.37		21	*	P
Cadmium	mg/Kg	20	11.0		9.35		16		P
Calcium	mg/Kg	20	1100		944		15		P
Chromium	mg/Kg	20	33.0		27.8		17		P
Cobalt	mg/Kg	20	16.6		14.2		16		P
Copper	mg/Kg	20	28.0		21.7		25	*	P
Iron	mg/Kg	20	12800		11300		12		P
Lead	mg/Kg	20	93.6		74.8		22	*	P
Magnesium	mg/Kg	20	2320		1860		22	*	P
Manganese	mg/Kg	20	306		331		8		P
Nickel	mg/Kg	20	38.4		33.2		15		P
Potassium	mg/Kg	20	1180		1140		3		P
Selenium	mg/Kg	20	84.8		75.6		11		P
Silver	mg/Kg	20	3.56		3.26		9		P
Sodium	mg/Kg	20	255		240		6		P
Thallium	mg/Kg	20	103		90.5		13		P
Vanadium	mg/Kg	20	31.2		25.9		19		P
Zinc	mg/Kg	20	71.3		53.7		28	*	P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167781BS							
Aluminum	mg/Kg	95.7	85.2		89	80 - 120	P
Antimony	mg/Kg	38.3	34.6		90	80 - 120	P
Arsenic	mg/Kg	38.3	34.2		89	80 - 120	P
Barium	mg/Kg	9.6	8.38		87	80 - 120	P
Beryllium	mg/Kg	9.6	8.87		92	80 - 120	P
Cadmium	mg/Kg	9.6	8.85		92	80 - 120	P
Calcium	mg/Kg	47.8	43.9	J	92	80 - 120	P
Chromium	mg/Kg	19.1	17.6		92	80 - 120	P
Cobalt	mg/Kg	9.6	8.56		89	80 - 120	P
Copper	mg/Kg	14.4	13.3		92	80 - 120	P
Iron	mg/Kg	140	128		91	80 - 120	P
Lead	mg/Kg	47.8	43.2		90	80 - 120	P
Magnesium	mg/Kg	95.7	85.3	J	89	80 - 120	P
Manganese	mg/Kg	9.6	8.80		92	80 - 120	P
Nickel	mg/Kg	23.9	21.6		90	80 - 120	P
Potassium	mg/Kg	480	399		83	80 - 120	P
Selenium	mg/Kg	95.7	84.9		89	80 - 120	P
Silver	mg/Kg	3.6	3.23		90	80 - 120	P
Sodium	mg/Kg	140	139		99	80 - 120	P
Thallium	mg/Kg	95.7	87.3		91	80 - 120	P
Vanadium	mg/Kg	14.4	12.8		89	80 - 120	P
Zinc	mg/Kg	9.6	8.78		92	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167786BS							
Mercury	mg/Kg	0.27	0.24		88	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167799BS							
Aluminum	ug/L	1000	883		88	80 - 120	P
Antimony	ug/L	400	395		99	80 - 120	P
Arsenic	ug/L	400	371		93	80 - 120	P
Barium	ug/L	100	81.4		81	80 - 120	P
Beryllium	ug/L	100	94.0		94	80 - 120	P
Cadmium	ug/L	100	93.2		93	80 - 120	P
Calcium	ug/L	500	451	J	90	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	90.9		91	80 - 120	P
Copper	ug/L	150	142		95	80 - 120	P
Iron	ug/L	1500	1310		87	80 - 120	P
Lead	ug/L	500	457		91	80 - 120	P
Magnesium	ug/L	1000	884	J	88	80 - 120	P
Manganese	ug/L	100	87.9		88	80 - 120	P
Nickel	ug/L	250	229		92	80 - 120	P
Potassium	ug/L	5000	4250		85	80 - 120	P
Selenium	ug/L	1000	932		93	80 - 120	P
Silver	ug/L	37.5	34.6		92	80 - 120	P
Sodium	ug/L	1500	1290		86	80 - 120	P
Thallium	ug/L	1000	964		96	80 - 120	P
Vanadium	ug/L	150	131		87	80 - 120	P
Zinc	ug/L	100	94.3		94	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167812BS							
Mercury	ug/L	4.0	4.11		103	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

295-BERGEN-FRACL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135623 **Lab Sample ID :** Q1896-03L **SDG No.:** Q1901

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	1.03		0.65	J	37		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-167-SB01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135611 **Lab Sample ID :** Q1901-02L **SDG No.:** Q1901

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.039		0.078	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

FB04262025L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135636 **Lab Sample ID :** Q1901-06L **SDG No.:** Q1901

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6.11	J	250	U	100.0		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	50.0	U	250	U			P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	1000	U	5000	U			P
Chromium	5.00	U	25.0	U			P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	50.0	U	250	U			P
Lead	6.00	U	30.0	U			P
Magnesium	1000	U	5000	U			P
Manganese	6.66	J	50.0	U	100.0		P
Nickel	20.0	U	100	U			P
Potassium	1000	U	5000	U			P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	1000	U	5000	U			P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	20.0	U	100	U			P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

343L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135614 **Lab Sample ID :** Q1902-02L **SDG No.:** Q1901

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6010		6240		4		P
Antimony	2.38	U	11.9	U			P
Arsenic	2.97		2.65	J	11		P
Barium	44.1		44.2		0		P
Beryllium	0.40		0.45	J	12		P
Cadmium	0.28	U	1.43	U			P
Calcium	817		877		7		P
Chromium	10.6		11.4		8		P
Cobalt	5.01		4.75	J	5		P
Copper	11.1		13.1		17		P
Iron	11500		11300		2		P
Lead	32.1		32.3		1		P
Magnesium	1650		1730		5		P
Manganese	278		286		3		P
Nickel	9.50		9.02	J	5		P
Potassium	627		600		4		P
Selenium	0.25	J	4.75	U	100.0		P
Silver	0.19	J	2.38	U	100.0		P
Sodium	131		107	J	19		P
Thallium	0.24	J	9.51	U	100.0		P
Vanadium	14.5		14.9		2		P
Zinc	47.4		49.8		5		P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135611

Start date: 04/30/2025 **End date:** 04/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1317	HG
S0.2	S0.2	1	1319	HG
S2.5	S2.5	1	1321	HG
S5	S5	1	1324	HG
S7.5	S7.5	1	1326	HG
S10	S10	1	1328	HG
ICV109	ICV109	1	1335	HG
ICB109	ICB109	1	1338	HG
CCV52	CCV52	1	1340	HG
CCB52	CCB52	1	1342	HG
CRA	CRA	1	1345	HG
PB167786BL	PB167786BL	1	1351	HG
PB167786BS	PB167786BS	1	1356	HG
Q1901-02	B-167-SB01	1	1359	HG
Q1901-02DUP	B-167-SB01DUP	1	1401	HG
Q1901-02MS	B-167-SB01MS	1	1403	HG
Q1901-02MSD	B-167-SB01MSD	1	1406	HG
Q1901-03	B-170-SB01	1	1408	HG
CCV53	CCV53	1	1410	HG
CCB53	CCB53	1	1413	HG
Q1901-04	B-167-SB02	1	1415	HG
Q1901-05	B-170-SB02	1	1417	HG
CCV54	CCV54	1	1438	HG
CCB54	CCB54	1	1440	HG
Q1901-02L	B-167-SB01L	5	1451	HG
CCV55	CCV55	1	1456	HG
CCB55	CCB55	1	1458	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135614

Start date: 04/30/2025 **End date:** 04/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1428	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1618	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1628	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1636	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1641	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1704	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1738	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1830	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1835	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1937	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1941	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	2023	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2027	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2113	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-02	B-167-SB01	1	2121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-03	B-170-SB01	1	2125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-04	B-167-SB02	1	2129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-05	B-170-SB02	1	2133	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1902-02DUP	343DUP	1	2142	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1902-02L	343L	5	2146	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1902-02MS	343MS	1	2150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2158	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1902-02MSD	343MSD	1	2202	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1902-02A	343A	1	2206	Sb
CCV07	CCV07	1	2240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2305	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2309	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135623

Start date: 05/01/2025 **End date:** 05/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	HG
S0.2	S0.2	1	1119	HG
S2.5	S2.5	1	1122	HG
S5	S5	1	1126	HG
S7.5	S7.5	1	1131	HG
S10	S10	1	1136	HG
ICV112	ICV112	1	1147	HG
ICB112	ICB112	1	1149	HG
CCV62	CCV62	1	1158	HG
CCB62	CCB62	1	1201	HG
CRA	CRA	1	1205	HG
CCV63	CCV63	1	1249	HG
CCB63	CCB63	1	1251	HG
CCV64	CCV64	1	1319	HG
CCB64	CCB64	1	1323	HG
PB167812BL	PB167812BL	1	1355	HG
CCV65	CCV65	1	1358	HG
CCB65	CCB65	1	1402	HG
PB167812BS	PB167812BS	1	1405	HG
Q1896-03DUP	295-BERGEN-FRACDUP	1	1417	HG
Q1896-03MS	295-BERGEN-FRACMS	1	1422	HG
Q1896-03MSD	295-BERGEN-FRACMSD	1	1424	HG
Q1901-06	FB04262025	1	1426	HG
CCV66	CCV66	1	1429	HG
CCB66	CCB66	1	1440	HG
Q1896-03L	295-BERGEN-FRACL	5	1507	HG
Q1896-03A	295-BERGEN-FRACA	1	1512	HG
CCV67	CCV67	1	1523	HG
CCB67	CCB67	1	1525	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135636

Start date: 05/01/2025 **End date:** 05/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1227	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1231	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1236	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1416	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1512	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1600	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1604	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167799BL	PB167799BL	1	1650	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167799BS	PB167799BS	1	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1703	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1707	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1749	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1753	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-06	FB04262025	1	1757	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-06DUP	FB04262025DUP	1	1802	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-06L	FB04262025L	5	1806	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-06MS	FB04262025MS	1	1810	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1901-06MSD	FB04262025MSD	1	1814	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1836	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1840	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1923	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1927	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2011	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2015	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2024	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2028	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135689

Start date: 05/06/2025 **End date:** 05/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1348	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1352	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1356	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1447	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1522	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1531	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1629	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1634	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1715	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1808	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1813	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167781BL	PB167781BL	1	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167781BS	PB167781BS	1	1837	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1916	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2001	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2031	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2035	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			Mercury	7470A		04/30/25	05/01/25	
			Metals ICP-TAL	6010D		04/30/25	05/01/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Mercury	7470A		04/30/25	05/01/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP Mercury	7470A		04/30/25	05/01/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP ICP Metals	6010D		04/30/25	05/07/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP ICP Metals	6010D		04/30/25	05/07/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1901 **SAS No.:** Q1901

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167781**						
PB167781BL	PB167781BL	MB	SOLID	04/29/2025	2.08	100.0	100.00
PB167781BS	PB167781BS	LCS	SOLID	04/29/2025	2.09	100.0	100.00
Q1901-02	B-167-SB01	SAM	SOLID	04/29/2025	2.26	100.0	82.60
Q1901-03	B-170-SB01	SAM	SOLID	04/29/2025	2.22	100.0	83.00
Q1901-04	B-167-SB02	SAM	SOLID	04/29/2025	2.22	100.0	53.20
Q1901-05	B-170-SB02	SAM	SOLID	04/29/2025	2.42	100.0	75.10
Q1902-02DUP	343DUP	DUP	SOLID	04/29/2025	2.08	100.0	90.30
Q1902-02MS	343MS	MS	SOLID	04/29/2025	2.11	100.0	90.30
Q1902-02MSD	343MSD	MSD	SOLID	04/29/2025	2.41	100.0	90.30

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1901 **SAS No.:** Q1901

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167786**						
PB167786BL	PB167786BL	MB	SOLID	04/29/2025	0.53	35.0	100.00
PB167786BS	PB167786BS	LCS	SOLID	04/29/2025	0.52	35.0	100.00
Q1901-02	B-167-SB01	SAM	SOLID	04/29/2025	0.54	35.0	82.60
Q1901-02DUP	B-167-SB01DUP	DUP	SOLID	04/29/2025	0.56	35.0	82.60
Q1901-02MS	B-167-SB01MS	MS	SOLID	04/29/2025	0.52	35.0	82.60
Q1901-02MSD	B-167-SB01MSD	MSD	SOLID	04/29/2025	0.56	35.0	82.60
Q1901-03	B-170-SB01	SAM	SOLID	04/29/2025	0.57	35.0	83.00
Q1901-04	B-167-SB02	SAM	SOLID	04/29/2025	0.54	35.0	53.20
Q1901-05	B-170-SB02	SAM	SOLID	04/29/2025	0.58	35.0	75.10

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1901 **SAS No.:** Q1901

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167799**						
PB167799BL	PB167799BL	MB	WATER	04/30/2025	50.0	25.0	
PB167799BS	PB167799BS	LCS	WATER	04/30/2025	50.0	25.0	
Q1901-06	FB04262025	SAM	WATER	04/30/2025	50.0	25.0	
Q1901-06DUP	FB04262025DUP	DUP	WATER	04/30/2025	50.0	25.0	
Q1901-06MS	FB04262025MS	MS	WATER	04/30/2025	50.0	25.0	
Q1901-06MSD	FB04262025MSD	MSD	WATER	04/30/2025	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1901 **SAS No.:** Q1901

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167812**						
PB167812BL	PB167812BL	MB	WATER	04/30/2025	30.0	30.0	
PB167812BS	PB167812BS	LCS	WATER	04/30/2025	30.0	30.0	
Q1896-03DUP	295-BERGEN-FRACDUP	DUP	WATER	04/30/2025	30.0	30.0	
Q1896-03MS	295-BERGEN-FRACMS	MS	WATER	04/30/2025	30.0	30.0	
Q1896-03MSD	295-BERGEN-FRACMSD	MSD	WATER	04/30/2025	30.0	30.0	
Q1901-06	FB04262025	SAM	WATER	04/30/2025	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135611

Review By	mohan	Review On	5/1/2025 10:14:55 AM
Supervise By	jaswal	Supervise On	5/1/2025 11:28:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP85479,MP85480,MP85481,MP85482,MP85483,MP85484
ICV Standard	MP85485
CCV Standard	MP85487
ICSA Standard	
CRI Standard	MP85489
LCS Standard	
Chk Standard	MP85486,MP85488,MP85490,MP85510

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/30/25 13:17		mohan	OK
2	S0.2	S0.2	CAL2	04/30/25 13:19		mohan	OK
3	S2.5	S2.5	CAL3	04/30/25 13:21		mohan	OK
4	S5	S5	CAL4	04/30/25 13:24		mohan	OK
5	S7.5	S7.5	CAL5	04/30/25 13:26		mohan	OK
6	S10	S10	CAL6	04/30/25 13:28		mohan	OK
7	ICV109	ICV109	ICV	04/30/25 13:35		mohan	OK
8	ICB109	ICB109	ICB	04/30/25 13:38		mohan	OK
9	CCV52	CCV52	CCV	04/30/25 13:40		mohan	OK
10	CCB52	CCB52	CCB	04/30/25 13:42		mohan	OK
11	CRA	CRA	CRDL	04/30/25 13:45		mohan	OK
12	HighStd	HighStd	HIGH STD	04/30/25 13:47		mohan	OK
13	ChkStd	ChkStd	SAM	04/30/25 13:49		mohan	OK
14	PB167786BL	PB167786BL	MB	04/30/25 13:51		mohan	OK
15	PB167786BS	PB167786BS	LCS	04/30/25 13:56		mohan	OK
16	Q1901-02	B-167-SB01	SAM	04/30/25 13:59		mohan	OK
17	Q1901-02DUP	B-167-SB01DUP	DUP	04/30/25 14:01		mohan	OK
18	Q1901-02MS	B-167-SB01MS	MS	04/30/25 14:03		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135611

Review By	mohan	Review On	5/1/2025 10:14:55 AM
Supervise By	jaswal	Supervise On	5/1/2025 11:28:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP85479,MP85480,MP85481,MP85482,MP85483,MP85484
ICV Standard	MP85485
CCV Standard	MP85487
ICSA Standard	
CRI Standard	MP85489
LCS Standard	
Chk Standard	MP85486,MP85488,MP85490,MP85510

19	Q1901-02MSD	B-167-SB01MSD	MSD	04/30/25 14:06		mohan	OK
20	Q1901-03	B-170-SB01	SAM	04/30/25 14:08		mohan	OK
21	CCV53	CCV53	CCV	04/30/25 14:10		mohan	OK
22	CCB53	CCB53	CCB	04/30/25 14:13		mohan	OK
23	Q1901-04	B-167-SB02	SAM	04/30/25 14:15		mohan	OK
24	Q1901-05	B-170-SB02	SAM	04/30/25 14:17		mohan	OK
25	Q1902-02	343	SAM	04/30/25 14:20		mohan	OK
26	Q1903-01	COMP-4	SAM	04/30/25 14:22		mohan	OK
27	Q1903-02	COMP-5	SAM	04/30/25 14:24		mohan	OK
28	Q1903-03	COMP-6	SAM	04/30/25 14:26		mohan	OK
29	Q1904-01	VNJ-210	SAM	04/30/25 14:29		mohan	OK
30	Q1905-01	MH-G	SAM	04/30/25 14:31		mohan	OK
31	Q1905-05	MH-H	SAM	04/30/25 14:33		mohan	OK
32	Q1906-01	WC-4	SAM	04/30/25 14:35		mohan	OK
33	CCV54	CCV54	CCV	04/30/25 14:38		mohan	OK
34	CCB54	CCB54	CCB	04/30/25 14:40		mohan	OK
35	Q1906-05	WC-5	SAM	04/30/25 14:42		mohan	OK
36	Q1906-09	WC-6	SAM	04/30/25 14:45		mohan	OK
37	Q1906-13	WC-7	SAM	04/30/25 14:47		mohan	OK
38	Q1907-01	CO-8R-WC	SAM	04/30/25 14:49		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135611

Review By	mohan	Review On	5/1/2025 10:14:55 AM
Supervise By	jaswal	Supervise On	5/1/2025 11:28:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP85479,MP85480,MP85481,MP85482,MP85483,MP85484
ICV Standard	MP85485
CCV Standard	MP85487
ICSA Standard	
CRI Standard	MP85489
LCS Standard	
Chk Standard	MP85486,MP85488,MP85490,MP85510

39	Q1901-02L	B-167-SB01L	SD	04/30/25 14:51		mohan	OK
40	Q1901-02A	B-167-SB01A	PS	04/30/25 14:54		mohan	OK
41	CCV55	CCV55	CCV	04/30/25 14:56		mohan	OK
42	CCB55	CCB55	CCB	04/30/25 14:58		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135614

Review By	JANVI	Review On	5/7/2025 3:31:29 PM
Supervise By	jaswal	Supervise On	5/7/2025 3:37:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85026
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/30/25 14:28		Kareem	OK
2	S1	S1	CAL2	04/30/25 14:33		Kareem	OK
3	S2	S2	CAL3	04/30/25 14:37		Kareem	OK
4	S3	S3	CAL4	04/30/25 14:41		Kareem	OK
5	S4	S4	CAL5	04/30/25 14:45		Kareem	OK
6	S5	S5	CAL6	04/30/25 14:50		Kareem	OK
7	ICV01	ICV01	ICV	04/30/25 16:18	ICV fail for Al,Be,Ca,Co,Fe,Mg,Mn,Tl, V(95-105)%	Kareem	OK
8	LLICV01	LLICV01	LLICV	04/30/25 16:28		Kareem	OK
9	ICB01	ICB01	ICB	04/30/25 16:36		Kareem	OK
10	CRI01	CRI01	CRDL	04/30/25 16:41		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/30/25 16:46		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/30/25 17:04		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/30/25 17:09		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/30/25 17:13		Kareem	OK
15	CCV01	CCV01	CCV	04/30/25 17:27		Kareem	OK
16	CCB01	CCB01	CCB	04/30/25 17:38		Kareem	OK
17	PB167758BL	PB167758BL	MB	04/30/25 17:43		Kareem	OK
18	PB167758BS	PB167758BS	LCS	04/30/25 17:47		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135614

Review By	JANVI	Review On	5/7/2025 3:31:29 PM
Supervise By	jaswal	Supervise On	5/7/2025 3:37:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85026
LCS Standard	
Chk Standard	MP85030,MP85031

19	Q1833-02	EFF-WASTE-WATER	SAM	04/30/25 17:51		Kareem	OK
20	Q1836-01	METALS-DAY-1	SAM	04/30/25 17:56		Kareem	OK
21	Q1836-02	METALS-DAY-2	SAM	04/30/25 18:00		Kareem	OK
22	Q1836-03	METALS-DAY-3	SAM	04/30/25 18:04		Kareem	OK
23	Q1836-04	METALS-DAY-4	SAM	04/30/25 18:08		Kareem	OK
24	Q1836-04DUP	METALS-DAY-4DUP	DUP	04/30/25 18:13		Kareem	OK
25	Q1836-04L	METALS-DAY-4L	SD	04/30/25 18:17		Kareem	OK
26	CCV02	CCV02	CCV	04/30/25 18:30		Kareem	OK
27	CCB02	CCB02	CCB	04/30/25 18:35		Kareem	OK
28	Q1836-04MS	METALS-DAY-4MS	MS	04/30/25 18:40		Kareem	OK
29	Q1836-04MSD	METALS-DAY-4MSD	MSD	04/30/25 18:44		Kareem	OK
30	Q1836-04A	METALS-DAY-4A	PS	04/30/25 18:48		Kareem	OK
31	Q1883-01	OU4-PCS-TC-27-042	SAM	04/30/25 19:00		Kareem	OK
32	Q1883-03	OU4-PCS-TC-28-042	SAM	04/30/25 19:13		Kareem	OK
33	Q1883-05	OU4-PCS-TC-29-042	SAM	04/30/25 19:17		Kareem	OK
34	Q1883-07	OU4-PCS-TC-30-042	SAM	04/30/25 19:33		Kareem	OK
35	CCV03	CCV03	CCV	04/30/25 19:37		Kareem	OK
36	CCB03	CCB03	CCB	04/30/25 19:41		Kareem	OK
37	Q1883-09	OU4-PCS-TC-31-042	SAM	04/30/25 19:45		Kareem	OK
38	Q1883-11	OU4-PCS-TC-32-042	SAM	04/30/25 19:50		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135614

Review By	JANVI	Review On	5/7/2025 3:31:29 PM
Supervise By	jaswal	Supervise On	5/7/2025 3:37:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85026
LCS Standard	
Chk Standard	MP85030,MP85031

39	Q1883-11DUP	OU4-PCS-TC-32-042	DUP	04/30/25 19:54		Kareem	OK
40	Q1883-11L	OU4-PCS-TC-32-042	SD	04/30/25 19:58		Kareem	OK
41	Q1883-11MS	OU4-PCS-TC-32-042	MS	04/30/25 20:02		Kareem	OK
42	Q1883-11MSD	OU4-PCS-TC-32-042	MSD	04/30/25 20:06		Kareem	OK
43	Q1883-11A	OU4-PCS-TC-32-042	PS	04/30/25 20:10		Kareem	OK
44	Q1883-13	OU4-VSL-18-042325	SAM	04/30/25 20:14		Kareem	OK
45	Q1883-15	OU4-VSL-19-042325	SAM	04/30/25 20:19		Kareem	OK
46	CCV04	CCV04	CCV	04/30/25 20:23		Kareem	OK
47	CCB04	CCB04	CCB	04/30/25 20:27		Kareem	OK
48	Q1889-01	COMP-1	SAM	04/30/25 20:31		Kareem	OK
49	Q1889-02	COMP-2	SAM	04/30/25 20:35		Kareem	OK
50	Q1889-03	COMP-3	SAM	04/30/25 20:39		Kareem	OK
51	Q1891-01	MH-C	SAM	04/30/25 20:44		Kareem	OK
52	Q1891-05	MH-D	SAM	04/30/25 20:48		Kareem	OK
53	Q1892-01	MH-G	SAM	04/30/25 20:52		Kareem	OK
54	Q1892-05	MH-H	SAM	04/30/25 20:56		Kareem	OK
55	Q1892-09	MH-U2	SAM	04/30/25 21:00		Kareem	OK
56	CCV05	CCV05	CCV	04/30/25 21:08		Kareem	OK
57	CCB05	CCB05	CCB	04/30/25 21:13		Kareem	OK
58	Q1901-02	B-167-SB01	SAM	04/30/25 21:21		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135614

Review By	JANVI	Review On	5/7/2025 3:31:29 PM
Supervise By	jaswal	Supervise On	5/7/2025 3:37:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85026
LCS Standard	
Chk Standard	MP85030,MP85031

59	Q1901-03	B-170-SB01	SAM	04/30/25 21:25		Kareem	OK
60	Q1901-04	B-167-SB02	SAM	04/30/25 21:29		Kareem	OK
61	Q1901-05	B-170-SB02	SAM	04/30/25 21:33		Kareem	OK
62	Q1902-02	343	SAM	04/30/25 21:37		Kareem	OK
63	Q1902-02DUP	343DUP	DUP	04/30/25 21:42		Kareem	OK
64	Q1902-02L	343L	SD	04/30/25 21:46		Kareem	OK
65	Q1902-02MS	343MS	MS	04/30/25 21:50		Kareem	OK
66	CCV06	CCV06	CCV	04/30/25 21:54		Kareem	OK
67	CCB06	CCB06	CCB	04/30/25 21:58		Kareem	OK
68	Q1902-02MSD	343MSD	MSD	04/30/25 22:02		Kareem	OK
69	Q1902-02A	343A	PS	04/30/25 22:06		Kareem	OK
70	Q1903-01	COMP-4	SAM	04/30/25 22:10		Kareem	OK
71	Q1903-02	COMP-5	SAM	04/30/25 22:15		Kareem	OK
72	Q1903-03	COMP-6	SAM	04/30/25 22:19		Kareem	OK
73	Q1904-01	VNJ-210	SAM	04/30/25 22:23		Kareem	OK
74	Q1905-01	MH-G	SAM	04/30/25 22:27		Kareem	OK
75	Q1905-05	MH-H	SAM	04/30/25 22:31		Kareem	OK
76	Q1906-01	WC-4	SAM	04/30/25 22:35		Kareem	OK
77	CCV07	CCV07	CCV	04/30/25 22:40		Kareem	OK
78	CCB07	CCB07	CCB	04/30/25 22:44		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135614

Review By	JANVI	Review On	5/7/2025 3:31:29 PM
Supervise By	jaswal	Supervise On	5/7/2025 3:37:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85026
LCS Standard	
Chk Standard	MP85030,MP85031

79	Q1906-05	WC-5	SAM	04/30/25 22:48		Kareem	OK
80	Q1906-09	WC-6	SAM	04/30/25 22:52		Kareem	OK
81	Q1906-13	WC-7	SAM	04/30/25 22:56		Kareem	OK
82	Q1907-01	CO-8R-WC	SAM	04/30/25 23:01		Kareem	OK
83	CCV08	CCV08	CCV	04/30/25 23:05		Kareem	OK
84	CCB08	CCB08	CCB	04/30/25 23:09		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/01/25 11:17		mohan	OK
2	S0.2	S0.2	CAL2	05/01/25 11:19		mohan	OK
3	S2.5	S2.5	CAL3	05/01/25 11:22		mohan	OK
4	S5	S5	CAL4	05/01/25 11:26		mohan	OK
5	S7.5	S7.5	CAL5	05/01/25 11:31		mohan	OK
6	S10	S10	CAL6	05/01/25 11:36		mohan	OK
7	ICV112	ICV112	ICV	05/01/25 11:47		mohan	OK
8	ICB112	ICB112	ICB	05/01/25 11:49		mohan	OK
9	CCV62	CCV62	CCV	05/01/25 11:58		mohan	OK
10	CCB62	CCB62	CCB	05/01/25 12:01		mohan	OK
11	CRA	CRA	CRDL	05/01/25 12:05		mohan	OK
12	HighStd	HighStd	HIGH STD	05/01/25 12:08		mohan	OK
13	ChkStd	ChkStd	SAM	05/01/25 12:18		mohan	OK
14	PB167806BL	PB167806BL	MB	05/01/25 12:28		mohan	OK
15	PB167806BS	PB167806BS	LCS	05/01/25 12:30		mohan	OK
16	Q1901-08	B-167-SB01	SAM	05/01/25 12:32		mohan	OK
17	Q1901-08DUP	B-167-SB01DUP	DUP	05/01/25 12:35		mohan	OK
18	Q1901-08MS	B-167-SB01MS	MS	05/01/25 12:39		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

19	Q1901-08MSD	B-167-SB01MSD	MSD	05/01/25 12:41		mohan	OK
20	Q1901-09	B-170-SB01	SAM	05/01/25 12:44		mohan	OK
21	CCV63	CCV63	CCV	05/01/25 12:49		mohan	OK
22	CCB63	CCB63	CCB	05/01/25 12:51		mohan	OK
23	Q1901-10	B-167-SB02	SAM	05/01/25 12:53		mohan	OK
24	Q1901-11	B-170-SB02	SAM	05/01/25 12:55		mohan	OK
25	Q1904-02	VNJ-210	SAM	05/01/25 12:58		mohan	OK
26	Q1905-04	MH-G	SAM	05/01/25 13:00		mohan	OK
27	Q1905-08	MH-H	SAM	05/01/25 13:02		mohan	OK
28	Q1906-04	WC-4	SAM	05/01/25 13:04		mohan	OK
29	Q1906-08	WC-5	SAM	05/01/25 13:07		mohan	OK
30	Q1906-12	WC-6	SAM	05/01/25 13:09		mohan	OK
31	Q1906-16	WC-7	SAM	05/01/25 13:11		mohan	OK
32	Q1907-02	CO-8R-WC	SAM	05/01/25 13:14		mohan	OK
33	CCV64	CCV64	CCV	05/01/25 13:19		mohan	OK
34	CCB64	CCB64	CCB	05/01/25 13:23		mohan	OK
35	Q1912-04	MH-E	SAM	05/01/25 13:26		mohan	OK
36	Q1912-08	MH-F	SAM	05/01/25 13:28		mohan	OK
37	PB167807BL	PB167807BL	MB	05/01/25 13:30		mohan	OK
38	PB167807BS	PB167807BS	LCS	05/01/25 13:42		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

39	Q1913-02	WC-12-A-202504	SAM	05/01/25 13:44		mohan	OK
40	Q1913-02DUP	WC-12-A-202504DUP	DUP	05/01/25 13:46		mohan	OK
41	Q1913-02MS	WC-12-A-202504MS	MS	05/01/25 13:49		mohan	OK
42	Q1913-02MSD	WC-12-A-202504MSD	MSD	05/01/25 13:51		mohan	OK
43	Q1913-04	WC-13-A-202504	SAM	05/01/25 13:53		mohan	OK
44	PB167812BL	PB167812BL	MB	05/01/25 13:55		mohan	OK
45	CCV65	CCV65	CCV	05/01/25 13:58		mohan	OK
46	CCB65	CCB65	CCB	05/01/25 14:02		mohan	OK
47	PB167812BS	PB167812BS	LCS	05/01/25 14:05		mohan	OK
48	Q1890-01	TW-WTS-07	SAM	05/01/25 14:07		mohan	OK
49	Q1896-03	295-BERGEN-FRAC	SAM	05/01/25 14:15		mohan	OK
50	Q1896-03DUP	295-BERGEN-FRACD	DUP	05/01/25 14:17		mohan	OK
51	Q1896-03MS	295-BERGEN-FRACM	MS	05/01/25 14:22		mohan	OK
52	Q1896-03MSD	295-BERGEN-FRACM	MSD	05/01/25 14:24		mohan	OK
53	Q1901-06	FB04262025	SAM	05/01/25 14:26		mohan	OK
54	CCV66	CCV66	CCV	05/01/25 14:29		mohan	OK
55	CCB66	CCB66	CCB	05/01/25 14:40		mohan	OK
56	Q1915-01	WC-04282025	SAM	05/01/25 14:43		mohan	OK
57	PB167774TB	PB167774TB	MB	05/01/25 14:45		mohan	OK
58	PB167805TB	PB167805TB	MB	05/01/25 14:47		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

59	Q1901-08L	B-167-SB01L	SD	05/01/25 14:49		mohan	OK
60	Q1901-08A	B-167-SB01A	PS	05/01/25 15:00		mohan	OK
61	Q1913-02L	WC-12-A-202504L	SD	05/01/25 15:02		mohan	OK
62	Q1913-02A	WC-12-A-202504A	PS	05/01/25 15:04		mohan	OK
63	Q1896-03L	295-BERGEN-FRACL	SD	05/01/25 15:07		mohan	OK
64	Q1896-03A	295-BERGEN-FRACA	PS	05/01/25 15:12		mohan	OK
65	CCV67	CCV67	CCV	05/01/25 15:23		mohan	OK
66	CCB67	CCB67	CCB	05/01/25 15:25		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/01/25 12:27		Kareem	OK
2	S1	S1	CAL2	05/01/25 12:31		Kareem	OK
3	S2	S2	CAL3	05/01/25 12:36		Kareem	OK
4	S3	S3	CAL4	05/01/25 12:40		Kareem	OK
5	S4	S4	CAL5	05/01/25 12:44		Kareem	OK
6	S5	S5	CAL6	05/01/25 12:48		Kareem	OK
7	ICV01	ICV01	ICV	05/01/25 13:44	ICV01 Fail B, Mo	Kareem	OK
8	LLICV01	LLICV01	LLICV	05/01/25 14:01		Kareem	OK
9	ICB01	ICB01	ICB	05/01/25 14:11		Kareem	OK
10	CRI01	CRI01	CRDL	05/01/25 14:16		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/01/25 14:35	ICSA Fail B	Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/01/25 14:39	ICSAB01 Fail B	Kareem	OK
13	ICSADL	ICSADL	ICSA	05/01/25 14:53		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/01/25 15:01		Kareem	OK
15	CCV01	CCV01	CCV	05/01/25 15:05		Kareem	OK
16	CCB01	CCB01	CCB	05/01/25 15:12		Kareem	OK
17	PB167781BL	PB167781BL	MB	05/01/25 15:17	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok
18	PB167781BS	PB167781BS	LCS	05/01/25 15:21	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	Q1911-01	EO-03-04292025	SAM	05/01/25 15:28		Kareem	OK
20	Q1920-01	291	SAM	05/01/25 15:33		Kareem	OK
21	Q1894-01	PAINTED-GROUND-F	SAM	05/01/25 15:38		Kareem	OK
22	Q1894-02	PAINTED-GROUND-F	SAM	05/01/25 15:42		Kareem	OK
23	Q1894-03	PAINTED-GROUND-F	SAM	05/01/25 15:47		Kareem	OK
24	Q1904-02	VNJ-210	SAM	05/01/25 15:51		Kareem	OK
25	PB167800BL	PB167800BL	MB	05/01/25 15:56		Kareem	OK
26	CCV02	CCV02	CCV	05/01/25 16:00		Kareem	OK
27	CCB02	CCB02	CCB	05/01/25 16:04		Kareem	OK
28	PB167800BS	PB167800BS	LCS	05/01/25 16:19		Kareem	OK
29	PB167808BL	PB167808BL	MB	05/01/25 16:23		Kareem	OK
30	PB167808BS	PB167808BS	LCS	05/01/25 16:33		Kareem	OK
31	PB167774TB	PB167774TB	MB	05/01/25 16:37		Kareem	OK
32	PB167757BL	PB167757BL	MB	05/01/25 16:42	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok
33	PB167757BS	PB167757BS	LCS	05/01/25 16:46	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok
34	PB167799BL	PB167799BL	MB	05/01/25 16:50		Kareem	OK
35	PB167799BS	PB167799BS	LCS	05/01/25 16:55		Kareem	OK
36	Q1910-01	MOO-25-0123-27	SAM	05/01/25 16:59		Kareem	OK
37	CCV03	CCV03	CCV	05/01/25 17:03		Kareem	OK
38	CCB03	CCB03	CCB	05/01/25 17:07		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	Q1910-01DUP	MOO-25-0123-27DUP	DUP	05/01/25 17:11		Kareem	OK
40	Q1910-01L	MOO-25-0123-27L	SD	05/01/25 17:15		Kareem	OK
41	Q1910-01MS	MOO-25-0123-27MS	MS	05/01/25 17:20		Kareem	OK
42	Q1910-01MSD	MOO-25-0123-27MSD	MSD	05/01/25 17:24		Kareem	OK
43	Q1910-01A	MOO-25-0123-27A	PS	05/01/25 17:28	0.1ML EACH M6004,M6013-10MLSA PLE	Kareem	OK
44	Q1912-01	MH-E	SAM	05/01/25 17:32		Kareem	OK
45	Q1912-05	MH-F	SAM	05/01/25 17:36		Kareem	OK
46	Q1890-01	TW-WTS-07	SAM	05/01/25 17:40		Kareem	OK
47	Q1896-03	295-BERGEN-FRAC	SAM	05/01/25 17:45		Kareem	OK
48	CCV04	CCV04	CCV	05/01/25 17:49		Kareem	OK
49	CCB04	CCB04	CCB	05/01/25 17:53		Kareem	OK
50	Q1901-06	FB04262025	SAM	05/01/25 17:57		Kareem	OK
51	Q1901-06DUP	FB04262025DUP	DUP	05/01/25 18:02		Kareem	OK
52	Q1901-06L	FB04262025L	SD	05/01/25 18:06		Kareem	OK
53	Q1901-06MS	FB04262025MS	MS	05/01/25 18:10		Kareem	OK
54	Q1901-06MSD	FB04262025MSD	MSD	05/01/25 18:14		Kareem	OK
55	Q1901-06A	FB04262025A	PS	05/01/25 18:19	0.1ML EACH M6004,M6013-10MLSA PLE	Kareem	OK
56	Q1901-08	B-167-SB01	SAM	05/01/25 18:23		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

57	Q1901-08DUP	B-167-SB01DUP	DUP	05/01/25 18:27	Wrong QC	Kareem	Not Ok
58	Q1901-08L	B-167-SB01L	SD	05/01/25 18:31	Wrong QC	Kareem	Not Ok
59	CCV05	CCV05	CCV	05/01/25 18:36		Kareem	OK
60	CCB05	CCB05	CCB	05/01/25 18:40		Kareem	OK
61	Q1901-08MS	B-167-SB01MS	MS	05/01/25 18:44	Wrong QC	Kareem	Not Ok
62	Q1901-08MSD	B-167-SB01MSD	MSD	05/01/25 18:48	Wrong QC	Kareem	Not Ok
63	Q1901-08A	B-167-SB01A	PS	05/01/25 18:52	Wrong QC	Kareem	Not Ok
64	Q1901-09	B-170-SB01	SAM	05/01/25 18:56		Kareem	OK
65	Q1901-10	B-167-SB02	SAM	05/01/25 19:01	Confirm TCLP for Ba	Kareem	OK
66	Q1901-11	B-170-SB02	SAM	05/01/25 19:05	Confirm TCLP for Ba	Kareem	OK
67	Q1905-04	MH-G	SAM	05/01/25 19:10		Kareem	OK
68	Q1905-08	MH-H	SAM	05/01/25 19:14		Kareem	OK
69	Q1906-04	WC-4	SAM	05/01/25 19:19	Confirm TCLP for Ba,Zn	Kareem	Not Ok
70	CCV06	CCV06	CCV	05/01/25 19:23		Kareem	OK
71	CCB06	CCB06	CCB	05/01/25 19:27		Kareem	OK
72	Q1906-08	WC-5	SAM	05/01/25 19:32		Kareem	OK
73	Q1906-12	WC-6	SAM	05/01/25 19:36		Kareem	OK
74	Q1906-16	WC-7	SAM	05/01/25 19:40		Kareem	OK
75	Q1907-02	CO-8R-WC	SAM	05/01/25 19:45		Kareem	OK
76	Q1912-04	MH-E	SAM	05/01/25 19:49		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

77	Q1912-08	MH-F	SAM	05/01/25 19:54		Kareem	OK
78	Q1913-02	WC-12-A-202504	SAM	05/01/25 19:58	QC Set missing	Kareem	Not Ok
79	Q1913-04	WC-13-A-202504	SAM	05/01/25 20:02		Kareem	OK
80	Q1915-01	WC-04282025	SAM	05/01/25 20:07		Kareem	OK
81	CCV07	CCV07	CCV	05/01/25 20:11		Kareem	OK
82	CCB07	CCB07	CCB	05/01/25 20:15		Kareem	OK
83	PB167805TB	PB167805TB	MB	05/01/25 20:20		Kareem	OK
84	CCV08	CCV08	CCV	05/01/25 20:24		Kareem	OK
85	CCB08	CCB08	CCB	05/01/25 20:28		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135689

Review By	JANVI	Review On	5/7/2025 11:23:01 AM
Supervise By	jaswal	Supervise On	5/7/2025 11:23:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/06/25 13:43		Kareem	OK
2	S1	S1	CAL2	05/06/25 13:48		Kareem	OK
3	S2	S2	CAL3	05/06/25 13:52		Kareem	OK
4	S3	S3	CAL4	05/06/25 13:56		Kareem	OK
5	S4	S4	CAL5	05/06/25 14:01		Kareem	OK
6	S5	S5	CAL6	05/06/25 14:05		Kareem	OK
7	ICV01	ICV01	ICV	05/06/25 14:47		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/06/25 15:22		Kareem	OK
9	ICB01	ICB01	ICB	05/06/25 15:27		Kareem	OK
10	CRI01	CRI01	CRDL	05/06/25 15:31		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/06/25 15:50		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/06/25 15:55		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/06/25 15:59		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/06/25 16:03		Kareem	OK
15	CCV01	CCV01	CCV	05/06/25 16:29		Kareem	OK
16	CCB01	CCB01	CCB	05/06/25 16:34		Kareem	OK
17	Q1948-01	001-WILLETS-PT-BL	SAM	05/06/25 16:38		Kareem	OK
18	Q1948-02	002-35TH-AVE(APR)	SAM	05/06/25 16:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135689

Review By	JANVI	Review On	5/7/2025 11:23:01 AM
Supervise By	jaswal	Supervise On	5/7/2025 11:23:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

19	Q1932-01	COMP-4	SAM	05/06/25 16:47		Kareem	OK
20	Q1932-03	COMP-5	SAM	05/06/25 16:51		Kareem	OK
21	Q1932-05	COMP-6	SAM	05/06/25 16:55		Kareem	OK
22	Q1932-07	COMP-7	SAM	05/06/25 16:59		Kareem	OK
23	Q1933-01	OK-01-050125	SAM	05/06/25 17:03		Kareem	OK
24	Q1933-01DUP	OK-01-050125DUP	DUP	05/06/25 17:07		Kareem	OK
25	Q1933-01L	OK-01-050125L	SD	05/06/25 17:11		Kareem	OK
26	CCV02	CCV02	CCV	05/06/25 17:15		Kareem	OK
27	CCB02	CCB02	CCB	05/06/25 17:20		Kareem	OK
28	Q1933-01MS	OK-01-050125MS	MS	05/06/25 17:24		Kareem	OK
29	Q1933-01MSD	OK-01-050125MSD	MSD	05/06/25 17:28		Kareem	OK
30	Q1933-01A	OK-01-050125A	PS	05/06/25 17:32		Kareem	OK
31	Q1913-03	WC-13-S-202504	SAM	05/06/25 17:43		Kareem	OK
32	Q1913-03DUP	WC-13-S-202504DUP	DUP	05/06/25 17:47		Kareem	OK
33	Q1913-03L	WC-13-S-202504L	SD	05/06/25 17:51		Kareem	OK
34	Q1913-03MS	WC-13-S-202504MS	MS	05/06/25 17:56		Kareem	OK
35	Q1913-03MSD	WC-13-S-202504MSD	MSD	05/06/25 18:00		Kareem	OK
36	Q1913-03A	WC-13-S-202504A	PS	05/06/25 18:04		Kareem	OK
37	CCV03	CCV03	CCV	05/06/25 18:08		Kareem	OK
38	CCB03	CCB03	CCB	05/06/25 18:13		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135689

Review By	JANVI	Review On	5/7/2025 11:23:01 AM
Supervise By	jaswal	Supervise On	5/7/2025 11:23:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

39	PB167860BL	PB167860BL	MB	05/06/25 18:17		Kareem	OK
40	PB167860BS	PB167860BS	LCS	05/06/25 18:21		Kareem	OK
41	PB167781BL	PB167781BL	MB	05/06/25 18:25		Kareem	OK
42	PB167781BS	PB167781BS	LCS	05/06/25 18:37		Kareem	OK
43	PB167757BL	PB167757BL	MB	05/06/25 18:41		Kareem	OK
44	PB167757BS	PB167757BS	LCS	05/06/25 19:01		Kareem	OK
45	Q1949-01	001-WILLETS-PT-BL	SAM	05/06/25 19:05		Kareem	OK
46	CCV04	CCV04	CCV	05/06/25 19:16		Kareem	OK
47	CCB04	CCB04	CCB	05/06/25 19:20		Kareem	OK
48	Q1949-04	002-35TH-AVE(MAY)	SAM	05/06/25 19:24		Kareem	OK
49	Q1949-04DUP	002-35TH-AVE(MAY)[	DUP	05/06/25 19:29		Kareem	OK
50	Q1949-04L	002-35TH-AVE(MAY)[	SD	05/06/25 19:33		Kareem	OK
51	Q1949-04MS	002-35TH-AVE(MAY)[	MS	05/06/25 19:37		Kareem	OK
52	Q1949-04MSD	002-35TH-AVE(MAY)[	MSD	05/06/25 19:41		Kareem	OK
53	Q1949-04A	002-35TH-AVE(MAY)A	PS	05/06/25 19:45		Kareem	OK
54	Q1939-05	GB3	SAM	05/06/25 19:49	Zn high	Kareem	Dilution
55	Q1935-01	MH-NN	SAM	05/06/25 19:53		Kareem	OK
56	Q1935-05	MH-MM	SAM	05/06/25 19:57		Kareem	OK
57	CCV05	CCV05	CCV	05/06/25 20:01		Kareem	OK
58	CCB05	CCB05	CCB	05/06/25 20:06		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135689

Review By	JANVI	Review On	5/7/2025 11:23:01 AM
Supervise By	jaswal	Supervise On	5/7/2025 11:23:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

59	Q1939-01	GB1	SAM	05/06/25 20:10		Kareem	OK
60	Q1939-03	GB2	SAM	05/06/25 20:14		Kareem	OK
61	Q1945-01DL	GB1WDL	SAM	05/06/25 20:18	10x for Zn	Kareem	Confirms
62	Q1946-01	BB-CONCRETE	SAM	05/06/25 20:22		Kareem	OK
63	Q1961-01	EO-01-050525	SAM	05/06/25 20:27		Kareem	OK
64	CCV06	CCV06	CCV	05/06/25 20:31		Kareem	OK
65	CCB06	CCB06	CCB	05/06/25 20:35		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167781

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 04/29/2025 **Time :** 10:50 **Temp :** 96 °C

End Digest Date: 04/29/2025 **Time :** 13:05 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: SLG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6005
LFS-2	1.00	M6012
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/29/25 14:05	SLG-MET-DIG	Default lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167781

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB167781BL	PBS781	N/A	2.08	100	Colorless	Colorless	Fine	N/A	N/A	1
PB167781BS	LCS781	N/A	2.09	100	Colorless	Colorless	Fine	N/A	M6005,M6012	2
Q1901-02	B-167-SB01	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	3
Q1901-03	B-170-SB01	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	4
Q1901-04	B-167-SB02	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	5
Q1901-05	B-170-SB02	N/A	2.42	100	Brown	Yellow	Medium	N/A	N/A	6
Q1902-02	343	N/A	2.33	100	Brown	Yellow	Medium	N/A	N/A	7
Q1902-02MS	343MS	N/A	2.11	100	Brown	Yellow	Medium	N/A	M6005,M6012	9
Q1902-02MSD	343MSD	N/A	2.41	100	Brown	Yellow	Medium	N/A	M6005,M6012	10
Q1902-02DUP	343DUP	N/A	2.08	100	Brown	Yellow	Medium	N/A	N/A	8
Q1903-01	COMP-4	N/A	2.35	100	Brown	Yellow	Medium	N/A	N/A	11
Q1903-02	COMP-5	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	12
Q1903-03	COMP-6	N/A	2.34	100	Brown	Yellow	Medium	N/A	N/A	13
Q1904-01	VNJ-210	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	14
Q1905-01	MH-G	N/A	2.33	100	Brown	Yellow	Medium	N/A	N/A	15
Q1905-05	MH-H	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	16
Q1906-01	WC-4	N/A	2.48	100	Brown	Yellow	Medium	N/A	N/A	17
Q1906-05	WC-5	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	18
Q1906-09	WC-6	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	19
Q1906-13	WC-7	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	20
Q1907-01	CO-8R-WC	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	21

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167786

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/29/2025 **Time :** 15:15 **Temp :** 95 °C

End Digest Date: 04/29/2025 **Time :** 15:45 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JL

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85485
CCV	30mL	MP85487
CRA	30mL	MP85489
Blank Spike	0.48mL	MP85478
Matrix Spike	0.48mL	MP85478

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85491
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243I
TCLP-FLUID-1	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85479
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85480
2.5 ppb	S2.5	30mL	MP85481
5.0 ppb	S5.0	30mL	MP85482
7.5 ppb	S7.5	30mL	MP85483
10.0 ppb	S10.0	30mL	MP85484
ICV	ICV	30mL	MP85485
ICB	ICB	30mL	MP85486
CCV	CCV	30mL	MP85487
CCB	CCB	30mL	MP85488
CRI	CRI	30mL	MP85489
CHK STD	CHK STD	30mL	MP85490

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/29/25 @ 16:30	MB - Dig - Lab	MB - [illegible] Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167786

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167786BL	PBS786	0.527	35	NA	N/A	3-1
PB167786BS	LCS786	0.52	35	NA	MP85478	2
Q1901-02DUP	B-167-SB01DUP	0.56	35	NA	N/A	4
Q1901-02MS	B-167-SB01MS	0.52	35	NA	MP85478	5
Q1901-02MSD	B-167-SB01MSD	0.56	35	NA	MP85478	6
Q1901-02	B-167-SB01	0.54	35	NA	N/A	3
Q1901-03	B-170-SB01	0.57	35	NA	N/A	7
Q1901-04	B-167-SB02	0.54	35	NA	N/A	8
Q1901-05	B-170-SB02	0.58	35	NA	N/A	9
Q1902-02	343	0.52	35	NA	N/A	10
Q1903-01	COMP-4	0.52	35	NA	N/A	11
Q1903-02	COMP-5	0.50	35	NA	N/A	12
Q1903-03	COMP-6	0.53	35	NA	N/A	13
Q1904-01	VNJ-210	0.54	35	NA	N/A	14
Q1905-01	MH-G	0.55	35	NA	N/A	15
Q1905-05	MH-H	0.51	35	NA	N/A	16
Q1906-01	WC-4	0.52	35	NA	N/A	17
Q1906-05	WC-5	0.58	35	NA	N/A	18
Q1906-09	WC-6	0.54	35	NA	N/A	19
Q1906-13	WC-7	0.51	35	NA	N/A	20
Q1907-01	CO-8R-WC	0.54	35	NA	N/A	21

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167799

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 04/30/2025 **Time :** 10:20 **Temp :** 96 °C

End Digest Date: 04/30/2025 **Time :** 13:30 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLB.

Supervisor Signature: MB

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6005
LFS-2	0.25	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 1CELL 50 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 14:30	S123. met. dig	DB: Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167799

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167799BL	PBW799	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB167799BS	LCS799	<2	50	25	Colorless	Colorless	Clear	Clear	M6005,M6016	2
Q1890-01	TW-WTS-07	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q1896-03	295-BERGEN-FRAC	<2	50	25	Brown	light Brown	Cloudy	Clear	N/A	4
Q1901-06	FB04262025	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q1901-06MS	FB04262025MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6005,M6016	7
Q1901-06MSD	FB04262025MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6005,M6016	8
Q1901-06DUP	FB04262025DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	6

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167812

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/30/2025 **Time :** 13:30 **Temp :** 94 °C

End Digest Date: 04/30/2025 **Time :** 15:30 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85503
CCV	30mL	MP855505
CRA	30mL	MP85507
Blank Spike	0.48mL	N/A
Matrix Spike	0.48mL	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP85240
KMnO4 (5%)	4.5mL	MP85241
K2S2O8 (5%)	2.5mL	MP85242
Hydroxylamine HCL (12%)	2.0mL	MP85243
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85495
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85497
2.5 ppb	S2.5	30mL	MP85498
5.0 ppb	S5.0	30mL	MP85499
7.5 ppb	S7.5	30mL	MP85500
10.0 ppb	S10.0	30mL	MP85502
ICV	ICV	30mL	MP85503
ICB	ICB	30mL	MP85504
CCV	CCV	30mL	MP85505
CCB	CCB	30mL	MP85506
CRI	CRI	30mL	MP85507
CHK STD	CHK STD	30mL	MP85508

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/30/25 @ 16:00	MB - Dig. Lab	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167812

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167812BL	PBW812	30	30	<2	N/A	3-30
PB167812BS	LCS812	30	30	<2	MP85494	31
Q1890-01	TW-WTS-07	30	30	<2	N/A	32
Q1896-03	295-BERGEN-FRAC	30	30	<2	N/A	33
Q1896-03DUP	295-BERGEN-FRACDUP	30	30	<2	N/A	34
Q1896-03MS	295-BERGEN-FRACMS	30	30	<2	MP85494	35
Q1896-03MSD	295-BERGEN-FRACMSD	30	30	<2	MP85494	36
Q1901-06	FB04262025	30	30	<2	N/A	37

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1901 **Order ID:** Q1901

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-167-SB01								
Q1901-08	B-167-SB01	TCLP	Barium	528		72.8	500	ug/L
Q1901-08	B-167-SB01	TCLP	Lead	208		11.5	60.0	ug/L
Client ID : B-170-SB01								
Q1901-09	B-170-SB01	TCLP	Barium	713		72.8	500	ug/L
Q1901-09	B-170-SB01	TCLP	Lead	540		11.5	60.0	ug/L
Client ID : B-167-SB02								
Q1901-10	B-167-SB02	TCLP	Barium	2160		72.8	500	ug/L
Q1901-10	B-167-SB02	TCLP	Lead	17.7	J	11.5	60.0	ug/L
Client ID : B-170-SB02								
Q1901-11	B-170-SB02	TCLP	Barium	1780		72.8	500	ug/L
Q1901-11	B-170-SB02	TCLP	Lead	25.8	J	11.5	60.0	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050
7440-39-3	Barium	528		1	72.8	500	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050
7439-92-1	Lead	208		1	11.5	60.0	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/30/25 13:30	05/01/25 12:32	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	04/30/25 13:35	05/01/25 18:23	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050
7440-39-3	Barium	713		1	72.8	500	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050
7439-92-1	Lead	540		1	11.5	60.0	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/30/25 13:30	05/01/25 12:44	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	04/30/25 13:35	05/01/25 18:56	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050
7440-39-3	Barium	2160		1	72.8	500	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050
7439-92-1	Lead	17.7	J	1	11.5	60.0	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/30/25 13:30	05/01/25 12:53	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	04/30/25 13:35	05/01/25 19:01	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050
7440-39-3	Barium	1780		1	72.8	500	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050
7439-92-1	Lead	25.8	J	1	11.5	60.0	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/30/25 13:30	05/01/25 12:55	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	04/30/25 13:35	05/01/25 19:05	SW6010	SW3050

Color Before:	light Brown	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB112	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	11:49	LB135623

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	12:01	LB135623
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	12:51	LB135623
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	13:23	LB135623
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	14:02	LB135623
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	14:40	LB135623
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	15:25	LB135623

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	14:11	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	14:11	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	14:11	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	14:11	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	14:11	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	15:12	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	15:12	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	15:12	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	15:12	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	15:12	LB135636
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	16:04	LB135636
	Cadmium	0.60	+/-6.00	J	6.00	P	05/01/2025	16:04	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	16:04	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	16:04	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	16:04	LB135636
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	17:07	LB135636
	Cadmium	0.88	+/-6.00	J	6.00	P	05/01/2025	17:07	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	17:07	LB135636
	Lead	3.14	+/-12.0	J	12.0	P	05/01/2025	17:07	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	17:07	LB135636
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	17:53	LB135636
	Cadmium	0.92	+/-6.00	J	6.00	P	05/01/2025	17:53	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	17:53	LB135636
	Lead	2.63	+/-12.0	J	12.0	P	05/01/2025	17:53	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	17:53	LB135636
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	18:40	LB135636
	Cadmium	0.89	+/-6.00	J	6.00	P	05/01/2025	18:40	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	18:40	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	18:40	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	18:40	LB135636
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	19:27	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	19:27	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	19:27	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	19:27	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	19:27	LB135636
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	20:15	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:15	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	20:15	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	20:15	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	20:15	LB135636
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	20:28	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:28	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	20:28	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	20:28	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	20:28	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2025	15:08	LB135654
	Barium	100	+/-100	U	100	P	05/02/2025	15:08	LB135654
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2025	15:08	LB135654
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2025	15:08	LB135654
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2025	15:08	LB135654
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2025	15:08	LB135654
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2025	15:08	LB135654

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2025	16:05	LB135654
	Barium	100	+/-100	U	100	P	05/02/2025	16:05	LB135654
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2025	16:05	LB135654
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2025	16:05	LB135654
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2025	16:05	LB135654
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2025	16:05	LB135654
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2025	16:05	LB135654
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2025	16:38	LB135654
	Barium	100	+/-100	U	100	P	05/02/2025	16:38	LB135654
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2025	16:38	LB135654
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2025	16:38	LB135654
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2025	16:38	LB135654
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2025	16:38	LB135654
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2025	16:38	LB135654

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167774TB		**WATER**		**Batch Number:**	**PB167806**		**Prep Date:**	**04/30/2025**	
	Mercury	2.00	<2.00	U	2.00	CV	05/01/2025	14:45	LB135623

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167806BL		**WATER**		**Batch Number:**	**PB167806**		**Prep Date:**	**04/30/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	05/01/2025	12:28	LB135623

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167774TB		**WATER**		**Batch Number:**	**PB167808**		**Prep Date:**	**04/30/2025**	
	Arsenic	100	<100	U	100	P	05/01/2025	16:37	LB135636
	Barium	500	<500	U	500	P	05/01/2025	16:37	LB135636
	Cadmium	30.0	<30.0	U	30.0	P	05/01/2025	16:37	LB135636
	Chromium	50.0	<50.0	U	50.0	P	05/01/2025	16:37	LB135636
	Lead	60.0	<60.0	U	60.0	P	05/01/2025	16:37	LB135636
	Selenium	100	<100	U	100	P	05/01/2025	16:37	LB135636
	Silver	50.0	<50.0	U	50.0	P	05/01/2025	16:37	LB135636

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167808BL		**WATER**		**Batch Number:**	**PB167808**		**Prep Date:**	**04/30/2025**	
	Arsenic	100	<100	U	100	P	05/01/2025	16:23	LB135636
	Barium	500	<500	U	500	P	05/01/2025	16:23	LB135636
	Cadmium	30.0	<30.0	U	30.0	P	05/01/2025	16:23	LB135636
	Chromium	50.0	<50.0	U	50.0	P	05/01/2025	16:23	LB135636
	Lead	60.0	<60.0	U	60.0	P	05/01/2025	16:23	LB135636
	Selenium	100	<100	U	100	P	05/01/2025	16:23	LB135636
	Silver	50.0	<50.0	U	50.0	P	05/01/2025	16:23	LB135636

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV112	Mercury	3.81	4.0	95	90 - 110	CV	05/01/2025	11:47	LB135623

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV62	Mercury	4.80	5.0	96	90 - 110	CV	05/01/2025	11:58	LB135623
CCV63	Mercury	5.01	5.0	100	90 - 110	CV	05/01/2025	12:49	LB135623
CCV64	Mercury	5.09	5.0	102	90 - 110	CV	05/01/2025	13:19	LB135623
CCV65	Mercury	4.77	5.0	95	90 - 110	CV	05/01/2025	13:58	LB135623
CCV66	Mercury	4.60	5.0	92	90 - 110	CV	05/01/2025	14:29	LB135623
CCV67	Mercury	4.61	5.0	92	90 - 110	CV	05/01/2025	15:23	LB135623

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1010	1000	100	90 - 110	P	05/01/2025	13:44	LB135636
	Barium	495	520	95	90 - 110	P	05/01/2025	13:44	LB135636
	Cadmium	508	510	100	90 - 110	P	05/01/2025	13:44	LB135636
	Chromium	506	520	97	90 - 110	P	05/01/2025	13:44	LB135636
	Lead	989	1000	99	90 - 110	P	05/01/2025	13:44	LB135636
	Selenium	1040	1000	104	90 - 110	P	05/01/2025	13:44	LB135636
	Silver	240	250	96	90 - 110	P	05/01/2025	13:44	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	23.7	20.0	119	80 - 120	P	05/01/2025	14:01	LB135636
	Barium	95.8	100	96	80 - 120	P	05/01/2025	14:01	LB135636
	Cadmium	6.39	6.0	107	80 - 120	P	05/01/2025	14:01	LB135636
	Chromium	10.5	10.0	105	80 - 120	P	05/01/2025	14:01	LB135636
	Lead	13.1	12.0	109	80 - 120	P	05/01/2025	14:01	LB135636
	Selenium	22.9	20.0	114	80 - 120	P	05/01/2025	14:01	LB135636
	Silver	10.2	10.0	102	80 - 120	P	05/01/2025	14:01	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	15:05	LB135636
	Barium	9650	10000	96	90 - 110	P	05/01/2025	15:05	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	15:05	LB135636
	Chromium	1000	1000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Lead	5010	5000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Selenium	5140	5000	103	90 - 110	P	05/01/2025	15:05	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	15:05	LB135636
CCV02	Arsenic	4930	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Barium	10200	10000	102	90 - 110	P	05/01/2025	16:00	LB135636
	Cadmium	2470	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Chromium	995	1000	100	90 - 110	P	05/01/2025	16:00	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	16:00	LB135636
	Selenium	4960	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Silver	1220	1250	98	90 - 110	P	05/01/2025	16:00	LB135636
CCV03	Arsenic	5040	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Barium	9950	10000	100	90 - 110	P	05/01/2025	17:03	LB135636
	Cadmium	2510	2500	100	90 - 110	P	05/01/2025	17:03	LB135636
	Chromium	988	1000	99	90 - 110	P	05/01/2025	17:03	LB135636
	Lead	5010	5000	100	90 - 110	P	05/01/2025	17:03	LB135636
	Selenium	5060	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Silver	1220	1250	97	90 - 110	P	05/01/2025	17:03	LB135636
CCV04	Arsenic	5160	5000	103	90 - 110	P	05/01/2025	17:49	LB135636
	Barium	10000	10000	100	90 - 110	P	05/01/2025	17:49	LB135636
	Cadmium	2470	2500	99	90 - 110	P	05/01/2025	17:49	LB135636
	Chromium	987	1000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Lead	4950	5000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Selenium	5240	5000	105	90 - 110	P	05/01/2025	17:49	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	17:49	LB135636
CCV05	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	18:36	LB135636
	Barium	9950	10000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	18:36	LB135636
	Chromium	984	1000	98	90 - 110	P	05/01/2025	18:36	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Selenium	5150	5000	103	90 - 110	P	05/01/2025	18:36	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1230	1250	98	90 - 110	P	05/01/2025	18:36	LB135636
CCV06	Arsenic	4990	5000	100	90 - 110	P	05/01/2025	19:23	LB135636
	Barium	9830	10000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Cadmium	2460	2500	98	90 - 110	P	05/01/2025	19:23	LB135636
	Chromium	980	1000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Lead	4920	5000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Selenium	5030	5000	101	90 - 110	P	05/01/2025	19:23	LB135636
	Silver	1240	1250	99	90 - 110	P	05/01/2025	19:23	LB135636
CCV07	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	20:11	LB135636
	Barium	9790	10000	98	90 - 110	P	05/01/2025	20:11	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	20:11	LB135636
	Chromium	995	1000	100	90 - 110	P	05/01/2025	20:11	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	20:11	LB135636
	Selenium	5120	5000	102	90 - 110	P	05/01/2025	20:11	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	20:11	LB135636
CCV08	Arsenic	5180	5000	104	90 - 110	P	05/01/2025	20:24	LB135636
	Barium	9880	10000	99	90 - 110	P	05/01/2025	20:24	LB135636
	Cadmium	2490	2500	100	90 - 110	P	05/01/2025	20:24	LB135636
	Chromium	980	1000	98	90 - 110	P	05/01/2025	20:24	LB135636
	Lead	4990	5000	100	90 - 110	P	05/01/2025	20:24	LB135636
	Selenium	5270	5000	105	90 - 110	P	05/01/2025	20:24	LB135636
	Silver	1240	1250	99	90 - 110	P	05/01/2025	20:24	LB135636

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1060	1000	106	90 - 110	P	05/02/2025	13:47	LB135654
	Barium	518	520	100	90 - 110	P	05/02/2025	13:47	LB135654
	Cadmium	493	510	97	90 - 110	P	05/02/2025	13:47	LB135654
	Chromium	503	520	97	90 - 110	P	05/02/2025	13:47	LB135654
	Lead	966	1000	97	90 - 110	P	05/02/2025	13:47	LB135654
	Selenium	1040	1000	104	90 - 110	P	05/02/2025	13:47	LB135654
	Silver	230	250	92	90 - 110	P	05/02/2025	13:47	LB135654

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	19.0	20.0	95	80 - 120	P	05/02/2025	15:03	LB135654
	Barium	81.5	100	82	80 - 120	P	05/02/2025	15:03	LB135654
	Cadmium	5.51	6.0	92	80 - 120	P	05/02/2025	15:03	LB135654
	Chromium	10.1	10.0	101	80 - 120	P	05/02/2025	15:03	LB135654
	Lead	11.1	12.0	93	80 - 120	P	05/02/2025	15:03	LB135654
	Selenium	16.8	20.0	84	80 - 120	P	05/02/2025	15:03	LB135654
	Silver	10.8	10.0	108	80 - 120	P	05/02/2025	15:03	LB135654

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5450	5000	109	90 - 110	P	05/02/2025	16:01	LB135654
	Barium	9540	10000	95	90 - 110	P	05/02/2025	16:01	LB135654
	Cadmium	2440	2500	98	90 - 110	P	05/02/2025	16:01	LB135654
	Chromium	1010	1000	101	90 - 110	P	05/02/2025	16:01	LB135654
	Lead	4820	5000	96	90 - 110	P	05/02/2025	16:01	LB135654
	Selenium	5460	5000	109	90 - 110	P	05/02/2025	16:01	LB135654
	Silver	1270	1250	102	90 - 110	P	05/02/2025	16:01	LB135654
CCV02	Arsenic	5240	5000	105	90 - 110	P	05/02/2025	16:34	LB135654
	Barium	9720	10000	97	90 - 110	P	05/02/2025	16:34	LB135654
	Cadmium	2390	2500	96	90 - 110	P	05/02/2025	16:34	LB135654
	Chromium	1000	1000	100	90 - 110	P	05/02/2025	16:34	LB135654
	Lead	4740	5000	95	90 - 110	P	05/02/2025	16:34	LB135654
	Selenium	5240	5000	105	90 - 110	P	05/02/2025	16:34	LB135654
	Silver	1260	1250	101	90 - 110	P	05/02/2025	16:34	LB135654

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.17	0.2	86	40 - 160	CV	05/01/2025	12:05	LB135623
CRI01	Arsenic	23.3	20.0	116	40 - 160	P	05/01/2025	14:16	LB135636
	Barium	93.6	100	94	40 - 160	P	05/01/2025	14:16	LB135636
	Cadmium	6.36	6.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Chromium	10.6	10.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Lead	13.3	12.0	111	40 - 160	P	05/01/2025	14:16	LB135636
	Selenium	23.1	20.0	115	40 - 160	P	05/01/2025	14:16	LB135636
	Silver	10.6	10.0	106	40 - 160	P	05/01/2025	14:16	LB135636
CRI01	Arsenic	21.5	20.0	108	40 - 160	P	05/02/2025	15:12	LB135654
	Barium	80.2	100	80	40 - 160	P	05/02/2025	15:12	LB135654
	Cadmium	5.66	6.0	94	40 - 160	P	05/02/2025	15:12	LB135654
	Chromium	10.6	10.0	106	40 - 160	P	05/02/2025	15:12	LB135654
	Lead	12.1	12.0	101	40 - 160	P	05/02/2025	15:12	LB135654
	Selenium	23.5	20.0	117	40 - 160	P	05/02/2025	15:12	LB135654
	Silver	10.7	10.0	107	40 - 160	P	05/02/2025	15:12	LB135654

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	2.11			-20	20	05/01/2025	14:35	LB135636
	Barium	0.52	6.0	9	-94	106	05/01/2025	14:35	LB135636
	Cadmium	-4.57	1.0	457	-5	7	05/01/2025	14:35	LB135636
	Chromium	53.0	52.0	102	42	62	05/01/2025	14:35	LB135636
	Lead	-4.15			-12	12	05/01/2025	14:35	LB135636
	Selenium	-9.38			-20	20	05/01/2025	14:35	LB135636
	Silver	1.45			-10	10	05/01/2025	14:35	LB135636
ICSAB01	Arsenic	120	104	115	88.4	120	05/01/2025	14:39	LB135636
	Barium	487	537	91	437	637	05/01/2025	14:39	LB135636
	Cadmium	1080	972	111	826	1120	05/01/2025	14:39	LB135636
	Chromium	583	542	108	460	624	05/01/2025	14:39	LB135636
	Lead	52.5	49.0	107	37	61	05/01/2025	14:39	LB135636
	Selenium	45.9	46.0	100	26	66	05/01/2025	14:39	LB135636
	Silver	203	201	101	170	232	05/01/2025	14:39	LB135636
ICSA01	Arsenic	0.098			-20	20	05/02/2025	15:30	LB135654
	Barium	-5.67	6.0	94	-94	106	05/02/2025	15:30	LB135654
	Cadmium	-2.89	1.0	289	-5	7	05/02/2025	15:30	LB135654
	Chromium	53.8	52.0	104	42	62	05/02/2025	15:30	LB135654
	Lead	4.14			-12	12	05/02/2025	15:30	LB135654
	Selenium	-1.90			-20	20	05/02/2025	15:30	LB135654
	Silver	-0.66			-10	10	05/02/2025	15:30	LB135654
ICSAB01	Arsenic	115	104	111	88.4	120	05/02/2025	15:46	LB135654
	Barium	464	537	86	437	637	05/02/2025	15:46	LB135654
	Cadmium	996	972	102	826	1120	05/02/2025	15:46	LB135654
	Chromium	560	542	103	460	624	05/02/2025	15:46	LB135654
	Lead	51.7	49.0	106	37	61	05/02/2025	15:46	LB135654
	Selenium	57.3	46.0	125	26	66	05/02/2025	15:46	LB135654
	Silver	193	201	96	170	232	05/02/2025	15:46	LB135654

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1901-08 **client id:** B-167-SB01MS

Percent Solids for Sample: NA **Spiked ID:** Q1901-08MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	39.1		2.00	U	40.0	98		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1901-08 **client id:** B-167-SB01MSD

Percent Solids for Sample: NA **Spiked ID:** Q1901-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	40.9		2.00	U	40.0	102		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1913-02 **client id:** WC-12-A-202504MS

Percent Solids for Sample: NA **Spiked ID:** Q1913-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4220		100	U	4000	106		P
Barium	ug/L	75 - 125	1020		500	U	1000	102		P
Cadmium	ug/L	75 - 125	943		30.0	U	1000	94		P
Chromium	ug/L	75 - 125	2180		122		2000	103		P
Lead	ug/L	75 - 125	4570		60.0	U	5000	91		P
Selenium	ug/L	75 - 125	10100		100	U	10000	101		P
Silver	ug/L	75 - 125	385		50.0	U	380	101		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901

contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901

matrix: Water **sample id:** Q1913-02 **client id:** WC-12-A-202504MSD

Percent Solids for Sample: NA **Spiked ID:** Q1913-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4060		100	U	4000	102		P
Barium	ug/L	75 - 125	965		500	U	1000	96		P
Cadmium	ug/L	75 - 125	908		30.0	U	1000	91		P
Chromium	ug/L	75 - 125	2100		122		2000	99		P
Lead	ug/L	75 - 125	4400		60.0	U	5000	88		P
Selenium	ug/L	75 - 125	9630		100	U	10000	96		P
Silver	ug/L	75 - 125	366		50.0	U	380	96		P

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Metals
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Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1901-08 **Client ID:** B-167-SB01DUP

Percent Solids for Sample: NA **Duplicate ID** Q1901-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.00	U	2.00	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1901-08MS **Client ID:** B-167-SB01MSD

Percent Solids for Sample: NA **Duplicate ID** Q1901-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	39.1		40.9		4		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1913-02 **Client ID:** WC-12-A-202504DUP

Percent Solids for Sample: NA **Duplicate ID** Q1913-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	500	U	500	U			P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	122		113		8		P
Lead	ug/L	20	60.0	U	60.0	U			P
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Matrix: Water **Sample ID:** Q1913-02MS **Client ID:** WC-12-A-202504MSD

Percent Solids for Sample: NA **Duplicate ID** Q1913-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4220		4060		4		P
Barium	ug/L	20	1020		965		6		P
Cadmium	ug/L	20	943		908		4		P
Chromium	ug/L	20	2180		2100		4		P
Lead	ug/L	20	4570		4400		4		P
Selenium	ug/L	20	10100		9630		5		P
Silver	ug/L	20	385		366		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167806BS							
Mercury	ug/L	4.0	3.34		84	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167808BS							
Arsenic	ug/L	4000	3770		94	80 - 120	P
Barium	ug/L	1000	826		83	80 - 120	P
Cadmium	ug/L	1000	943		94	80 - 120	P
Chromium	ug/L	2000	1870		94	80 - 120	P
Lead	ug/L	5000	4630		93	80 - 120	P
Selenium	ug/L	10000	9600		96	80 - 120	P
Silver	ug/L	380	346		91	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-167-SB01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135623 **Lab Sample ID :** Q1901-08L **SDG No.:** Q1901

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	2.00	U	10.0	U			CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-12-A-202504L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135654 **Lab Sample ID :** Q1913-02L **SDG No.:** Q1901

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	500	U	2500	U			P
Cadmium	30.0	U	150	U			P
Chromium	122		122	J	0		P
Lead	60.0	U	300	U			P
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135623

Start date: 05/01/2025 **End date:** 05/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	HG
S0.2	S0.2	1	1119	HG
S2.5	S2.5	1	1122	HG
S5	S5	1	1126	HG
S7.5	S7.5	1	1131	HG
S10	S10	1	1136	HG
ICV112	ICV112	1	1147	HG
ICB112	ICB112	1	1149	HG
CCV62	CCV62	1	1158	HG
CCB62	CCB62	1	1201	HG
CRA	CRA	1	1205	HG
PB167806BL	PB167806BL	1	1228	HG
PB167806BS	PB167806BS	1	1230	HG
Q1901-08	B-167-SB01	1	1232	HG
Q1901-08DUP	B-167-SB01DUP	1	1235	HG
Q1901-08MS	B-167-SB01MS	1	1239	HG
Q1901-08MSD	B-167-SB01MSD	1	1241	HG
Q1901-09	B-170-SB01	1	1244	HG
CCV63	CCV63	1	1249	HG
CCB63	CCB63	1	1251	HG
Q1901-10	B-167-SB02	1	1253	HG
Q1901-11	B-170-SB02	1	1255	HG
CCV64	CCV64	1	1319	HG
CCB64	CCB64	1	1323	HG
CCV65	CCV65	1	1358	HG
CCB65	CCB65	1	1402	HG
CCV66	CCV66	1	1429	HG
CCB66	CCB66	1	1440	HG
PB167774TB	PB167774TB	1	1445	HG
Q1901-08L	B-167-SB01L	5	1449	HG
CCV67	CCV67	1	1523	HG
CCB67	CCB67	1	1525	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135636

Start date: 05/01/2025 **End date:** 05/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1227	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1231	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1236	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1240	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1244	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1248	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1344	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1411	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1416	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1439	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1505	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1512	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1600	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1604	Ag,As,Ba,Cd,Cr,Pb,Se
PB167808BL	PB167808BL	1	1623	Ag,As,Ba,Cd,Cr,Pb,Se
PB167808BS	PB167808BS	1	1633	Ag,As,Ba,Cd,Cr,Pb,Se
PB167774TB	PB167774TB	1	1637	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1703	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1707	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1749	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1753	Ag,As,Ba,Cd,Cr,Pb,Se
Q1901-08	B-167-SB01	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1836	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1840	Ag,As,Ba,Cd,Cr,Pb,Se
Q1901-09	B-170-SB01	1	1856	Ag,As,Ba,Cd,Cr,Pb,Se
Q1901-10	B-167-SB02	1	1901	Ag,As,Ba,Cd,Cr,Pb,Se
Q1901-11	B-170-SB02	1	1905	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1923	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1927	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	2011	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2015	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2024	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2028	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1901 **Sas no.:** Q1901 **Sdg no.:** Q1901

Instrument id number: **Method:** **Run number:** LB135654

Start date: 05/02/2025 **End date:** 05/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1234	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1238	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1242	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1246	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1251	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1255	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1347	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1503	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1508	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1512	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1530	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1546	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1601	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1605	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02DUP	WC-12-A-202504DUP	1	1613	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02L	WC-12-A-202504L	5	1618	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02MS	WC-12-A-202504MS	1	1622	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02MSD	WC-12-A-202504MSD	1	1626	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1634	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1901 **SAS No.:** Q1901

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			Mercury	7471B		04/29/25	04/30/25	
			Metals ICP-TAL	6010D		04/29/25	04/30/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			Mercury	7470A		04/30/25	05/01/25	
			Metals ICP-TAL	6010D		04/30/25	05/01/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP ICP Metals	6010D		04/30/25	05/01/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP ICP Metals	6010D		04/30/25	05/01/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP ICP Metals	6010D		04/30/25	05/01/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	

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LAB CHRONICLE

Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**		**04/28/25**
			TCLP ICP Metals	6010D		04/30/25	05/01/25
			TCLP Mercury	7470A		04/30/25	05/01/25

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1901 **SAS No.:** Q1901

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167806**						
PB167774TB	PB167774TB	MB	WATER	04/30/2025	3.0	30.0	
PB167806BL	PB167806BL	MB	WATER	04/30/2025	30.0	30.0	
PB167806BS	PB167806BS	LCS	WATER	04/30/2025	30.0	30.0	
Q1901-08	B-167-SB01	SAM	WATER	04/30/2025	3.0	30.0	
Q1901-08DUP	B-167-SB01DUP	DUP	WATER	04/30/2025	3.0	30.0	
Q1901-08MS	B-167-SB01MS	MS	WATER	04/30/2025	3.0	30.0	
Q1901-08MSD	B-167-SB01MSD	MSD	WATER	04/30/2025	3.0	30.0	
Q1901-09	B-170-SB01	SAM	WATER	04/30/2025	3.0	30.0	
Q1901-10	B-167-SB02	SAM	WATER	04/30/2025	3.0	30.0	
Q1901-11	B-170-SB02	SAM	WATER	04/30/2025	3.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1901 **SAS No.:** Q1901

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167808**						
PB167774TB	PB167774TB	MB	WATER	04/30/2025	5.0	25.0	
PB167808BL	PB167808BL	MB	WATER	04/30/2025	5.0	25.0	
PB167808BS	PB167808BS	LCS	WATER	04/30/2025	5.0	25.0	
Q1901-08	B-167-SB01	SAM	WATER	04/30/2025	5.0	25.0	
Q1901-09	B-170-SB01	SAM	WATER	04/30/2025	5.0	25.0	
Q1901-10	B-167-SB02	SAM	WATER	04/30/2025	5.0	25.0	
Q1901-11	B-170-SB02	SAM	WATER	04/30/2025	5.0	25.0	
Q1913-02DUP	WC-12-A-202504DUP	DUP	WATER	04/30/2025	5.0	25.0	
Q1913-02MS	WC-12-A-202504MS	MS	WATER	04/30/2025	5.0	25.0	
Q1913-02MSD	WC-12-A-202504MSD	MSD	WATER	04/30/2025	5.0	25.0	

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/01/25 11:17		mohan	OK
2	S0.2	S0.2	CAL2	05/01/25 11:19		mohan	OK
3	S2.5	S2.5	CAL3	05/01/25 11:22		mohan	OK
4	S5	S5	CAL4	05/01/25 11:26		mohan	OK
5	S7.5	S7.5	CAL5	05/01/25 11:31		mohan	OK
6	S10	S10	CAL6	05/01/25 11:36		mohan	OK
7	ICV112	ICV112	ICV	05/01/25 11:47		mohan	OK
8	ICB112	ICB112	ICB	05/01/25 11:49		mohan	OK
9	CCV62	CCV62	CCV	05/01/25 11:58		mohan	OK
10	CCB62	CCB62	CCB	05/01/25 12:01		mohan	OK
11	CRA	CRA	CRDL	05/01/25 12:05		mohan	OK
12	HighStd	HighStd	HIGH STD	05/01/25 12:08		mohan	OK
13	ChkStd	ChkStd	SAM	05/01/25 12:18		mohan	OK
14	PB167806BL	PB167806BL	MB	05/01/25 12:28		mohan	OK
15	PB167806BS	PB167806BS	LCS	05/01/25 12:30		mohan	OK
16	Q1901-08	B-167-SB01	SAM	05/01/25 12:32		mohan	OK
17	Q1901-08DUP	B-167-SB01DUP	DUP	05/01/25 12:35		mohan	OK
18	Q1901-08MS	B-167-SB01MS	MS	05/01/25 12:39		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

19	Q1901-08MSD	B-167-SB01MSD	MSD	05/01/25 12:41		mohan	OK
20	Q1901-09	B-170-SB01	SAM	05/01/25 12:44		mohan	OK
21	CCV63	CCV63	CCV	05/01/25 12:49		mohan	OK
22	CCB63	CCB63	CCB	05/01/25 12:51		mohan	OK
23	Q1901-10	B-167-SB02	SAM	05/01/25 12:53		mohan	OK
24	Q1901-11	B-170-SB02	SAM	05/01/25 12:55		mohan	OK
25	Q1904-02	VNJ-210	SAM	05/01/25 12:58		mohan	OK
26	Q1905-04	MH-G	SAM	05/01/25 13:00		mohan	OK
27	Q1905-08	MH-H	SAM	05/01/25 13:02		mohan	OK
28	Q1906-04	WC-4	SAM	05/01/25 13:04		mohan	OK
29	Q1906-08	WC-5	SAM	05/01/25 13:07		mohan	OK
30	Q1906-12	WC-6	SAM	05/01/25 13:09		mohan	OK
31	Q1906-16	WC-7	SAM	05/01/25 13:11		mohan	OK
32	Q1907-02	CO-8R-WC	SAM	05/01/25 13:14		mohan	OK
33	CCV64	CCV64	CCV	05/01/25 13:19		mohan	OK
34	CCB64	CCB64	CCB	05/01/25 13:23		mohan	OK
35	Q1912-04	MH-E	SAM	05/01/25 13:26		mohan	OK
36	Q1912-08	MH-F	SAM	05/01/25 13:28		mohan	OK
37	PB167807BL	PB167807BL	MB	05/01/25 13:30		mohan	OK
38	PB167807BS	PB167807BS	LCS	05/01/25 13:42		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

39	Q1913-02	WC-12-A-202504	SAM	05/01/25 13:44		mohan	OK
40	Q1913-02DUP	WC-12-A-202504DUP	DUP	05/01/25 13:46		mohan	OK
41	Q1913-02MS	WC-12-A-202504MS	MS	05/01/25 13:49		mohan	OK
42	Q1913-02MSD	WC-12-A-202504MSD	MSD	05/01/25 13:51		mohan	OK
43	Q1913-04	WC-13-A-202504	SAM	05/01/25 13:53		mohan	OK
44	PB167812BL	PB167812BL	MB	05/01/25 13:55		mohan	OK
45	CCV65	CCV65	CCV	05/01/25 13:58		mohan	OK
46	CCB65	CCB65	CCB	05/01/25 14:02		mohan	OK
47	PB167812BS	PB167812BS	LCS	05/01/25 14:05		mohan	OK
48	Q1890-01	TW-WTS-07	SAM	05/01/25 14:07		mohan	OK
49	Q1896-03	295-BERGEN-FRAC	SAM	05/01/25 14:15		mohan	OK
50	Q1896-03DUP	295-BERGEN-FRACD	DUP	05/01/25 14:17		mohan	OK
51	Q1896-03MS	295-BERGEN-FRACM	MS	05/01/25 14:22		mohan	OK
52	Q1896-03MSD	295-BERGEN-FRACM	MSD	05/01/25 14:24		mohan	OK
53	Q1901-06	FB04262025	SAM	05/01/25 14:26		mohan	OK
54	CCV66	CCV66	CCV	05/01/25 14:29		mohan	OK
55	CCB66	CCB66	CCB	05/01/25 14:40		mohan	OK
56	Q1915-01	WC-04282025	SAM	05/01/25 14:43		mohan	OK
57	PB167774TB	PB167774TB	MB	05/01/25 14:45		mohan	OK
58	PB167805TB	PB167805TB	MB	05/01/25 14:47		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135623

Review By	mohan	Review On	5/6/2025 10:10:13 AM
Supervise By	JANVI	Supervise On	5/6/2025 2:58:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP85495,MP85497,MP85498,MP85499,MP85500,MP85502
ICV Standard	MP85503
CCV Standard	MP85505
ICSA Standard	
CRI Standard	MP85507
LCS Standard	
Chk Standard	MP85504,MP85506,MP85508,MP85512

59	Q1901-08L	B-167-SB01L	SD	05/01/25 14:49		mohan	OK
60	Q1901-08A	B-167-SB01A	PS	05/01/25 15:00		mohan	OK
61	Q1913-02L	WC-12-A-202504L	SD	05/01/25 15:02		mohan	OK
62	Q1913-02A	WC-12-A-202504A	PS	05/01/25 15:04		mohan	OK
63	Q1896-03L	295-BERGEN-FRACL	SD	05/01/25 15:07		mohan	OK
64	Q1896-03A	295-BERGEN-FRACA	PS	05/01/25 15:12		mohan	OK
65	CCV67	CCV67	CCV	05/01/25 15:23		mohan	OK
66	CCB67	CCB67	CCB	05/01/25 15:25		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/01/25 12:27		Kareem	OK
2	S1	S1	CAL2	05/01/25 12:31		Kareem	OK
3	S2	S2	CAL3	05/01/25 12:36		Kareem	OK
4	S3	S3	CAL4	05/01/25 12:40		Kareem	OK
5	S4	S4	CAL5	05/01/25 12:44		Kareem	OK
6	S5	S5	CAL6	05/01/25 12:48		Kareem	OK
7	ICV01	ICV01	ICV	05/01/25 13:44	ICV01 Fail B, Mo	Kareem	OK
8	LLICV01	LLICV01	LLICV	05/01/25 14:01		Kareem	OK
9	ICB01	ICB01	ICB	05/01/25 14:11		Kareem	OK
10	CRI01	CRI01	CRDL	05/01/25 14:16		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/01/25 14:35	ICSA Fail B	Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/01/25 14:39	ICSAB01 Fail B	Kareem	OK
13	ICSADL	ICSADL	ICSA	05/01/25 14:53		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/01/25 15:01		Kareem	OK
15	CCV01	CCV01	CCV	05/01/25 15:05		Kareem	OK
16	CCB01	CCB01	CCB	05/01/25 15:12		Kareem	OK
17	PB167781BL	PB167781BL	MB	05/01/25 15:17	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok
18	PB167781BS	PB167781BS	LCS	05/01/25 15:21	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	Q1911-01	EO-03-04292025	SAM	05/01/25 15:28		Kareem	OK
20	Q1920-01	291	SAM	05/01/25 15:33		Kareem	OK
21	Q1894-01	PAINTED-GROUND-F	SAM	05/01/25 15:38		Kareem	OK
22	Q1894-02	PAINTED-GROUND-F	SAM	05/01/25 15:42		Kareem	OK
23	Q1894-03	PAINTED-GROUND-F	SAM	05/01/25 15:47		Kareem	OK
24	Q1904-02	VNJ-210	SAM	05/01/25 15:51		Kareem	OK
25	PB167800BL	PB167800BL	MB	05/01/25 15:56		Kareem	OK
26	CCV02	CCV02	CCV	05/01/25 16:00		Kareem	OK
27	CCB02	CCB02	CCB	05/01/25 16:04		Kareem	OK
28	PB167800BS	PB167800BS	LCS	05/01/25 16:19		Kareem	OK
29	PB167808BL	PB167808BL	MB	05/01/25 16:23		Kareem	OK
30	PB167808BS	PB167808BS	LCS	05/01/25 16:33		Kareem	OK
31	PB167774TB	PB167774TB	MB	05/01/25 16:37		Kareem	OK
32	PB167757BL	PB167757BL	MB	05/01/25 16:42	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok
33	PB167757BS	PB167757BS	LCS	05/01/25 16:46	ICV, ICSA,ICSAB Fail B	Kareem	Not Ok
34	PB167799BL	PB167799BL	MB	05/01/25 16:50		Kareem	OK
35	PB167799BS	PB167799BS	LCS	05/01/25 16:55		Kareem	OK
36	Q1910-01	MOO-25-0123-27	SAM	05/01/25 16:59		Kareem	OK
37	CCV03	CCV03	CCV	05/01/25 17:03		Kareem	OK
38	CCB03	CCB03	CCB	05/01/25 17:07		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	Q1910-01DUP	MOO-25-0123-27DUP	DUP	05/01/25 17:11		Kareem	OK
40	Q1910-01L	MOO-25-0123-27L	SD	05/01/25 17:15		Kareem	OK
41	Q1910-01MS	MOO-25-0123-27MS	MS	05/01/25 17:20		Kareem	OK
42	Q1910-01MSD	MOO-25-0123-27MSD	MSD	05/01/25 17:24		Kareem	OK
43	Q1910-01A	MOO-25-0123-27A	PS	05/01/25 17:28	0.1ML EACH M6004,M6013-10MLSA PLE	Kareem	OK
44	Q1912-01	MH-E	SAM	05/01/25 17:32		Kareem	OK
45	Q1912-05	MH-F	SAM	05/01/25 17:36		Kareem	OK
46	Q1890-01	TW-WTS-07	SAM	05/01/25 17:40		Kareem	OK
47	Q1896-03	295-BERGEN-FRAC	SAM	05/01/25 17:45		Kareem	OK
48	CCV04	CCV04	CCV	05/01/25 17:49		Kareem	OK
49	CCB04	CCB04	CCB	05/01/25 17:53		Kareem	OK
50	Q1901-06	FB04262025	SAM	05/01/25 17:57		Kareem	OK
51	Q1901-06DUP	FB04262025DUP	DUP	05/01/25 18:02		Kareem	OK
52	Q1901-06L	FB04262025L	SD	05/01/25 18:06		Kareem	OK
53	Q1901-06MS	FB04262025MS	MS	05/01/25 18:10		Kareem	OK
54	Q1901-06MSD	FB04262025MSD	MSD	05/01/25 18:14		Kareem	OK
55	Q1901-06A	FB04262025A	PS	05/01/25 18:19	0.1ML EACH M6004,M6013-10MLSA PLE	Kareem	OK
56	Q1901-08	B-167-SB01	SAM	05/01/25 18:23		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

57	Q1901-08DUP	B-167-SB01DUP	DUP	05/01/25 18:27	Wrong QC	Kareem	Not Ok
58	Q1901-08L	B-167-SB01L	SD	05/01/25 18:31	Wrong QC	Kareem	Not Ok
59	CCV05	CCV05	CCV	05/01/25 18:36		Kareem	OK
60	CCB05	CCB05	CCB	05/01/25 18:40		Kareem	OK
61	Q1901-08MS	B-167-SB01MS	MS	05/01/25 18:44	Wrong QC	Kareem	Not Ok
62	Q1901-08MSD	B-167-SB01MSD	MSD	05/01/25 18:48	Wrong QC	Kareem	Not Ok
63	Q1901-08A	B-167-SB01A	PS	05/01/25 18:52	Wrong QC	Kareem	Not Ok
64	Q1901-09	B-170-SB01	SAM	05/01/25 18:56		Kareem	OK
65	Q1901-10	B-167-SB02	SAM	05/01/25 19:01		Kareem	OK
66	Q1901-11	B-170-SB02	SAM	05/01/25 19:05		Kareem	OK
67	Q1905-04	MH-G	SAM	05/01/25 19:10		Kareem	OK
68	Q1905-08	MH-H	SAM	05/01/25 19:14		Kareem	OK
69	Q1906-04	WC-4	SAM	05/01/25 19:19	Confirm TCLP for Ba,Zn	Kareem	Not Ok
70	CCV06	CCV06	CCV	05/01/25 19:23		Kareem	OK
71	CCB06	CCB06	CCB	05/01/25 19:27		Kareem	OK
72	Q1906-08	WC-5	SAM	05/01/25 19:32		Kareem	OK
73	Q1906-12	WC-6	SAM	05/01/25 19:36		Kareem	OK
74	Q1906-16	WC-7	SAM	05/01/25 19:40		Kareem	OK
75	Q1907-02	CO-8R-WC	SAM	05/01/25 19:45		Kareem	OK
76	Q1912-04	MH-E	SAM	05/01/25 19:49		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135636

Review By	Janvi	Review On	5/5/2025 2:23:02 PM
Supervise By	jaswal	Supervise On	5/5/2025 4:33:07 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

77	Q1912-08	MH-F	SAM	05/01/25 19:54		Kareem	OK
78	Q1913-02	WC-12-A-202504	SAM	05/01/25 19:58	QC Set missing	Kareem	Not Ok
79	Q1913-04	WC-13-A-202504	SAM	05/01/25 20:02		Kareem	OK
80	Q1915-01	WC-04282025	SAM	05/01/25 20:07		Kareem	OK
81	CCV07	CCV07	CCV	05/01/25 20:11		Kareem	OK
82	CCB07	CCB07	CCB	05/01/25 20:15		Kareem	OK
83	PB167805TB	PB167805TB	MB	05/01/25 20:20		Kareem	OK
84	CCV08	CCV08	CCV	05/01/25 20:24		Kareem	OK
85	CCB08	CCB08	CCB	05/01/25 20:28		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135654

Review By	Janvi	Review On	5/5/2025 2:22:19 PM
Supervise By	jaswal	Supervise On	5/6/2025 4:52:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/02/25 12:34		Kareem	OK
2	S1	S1	CAL2	05/02/25 12:38		Kareem	OK
3	S2	S2	CAL3	05/02/25 12:42		Kareem	OK
4	S3	S3	CAL4	05/02/25 12:46		Kareem	OK
5	S4	S4	CAL5	05/02/25 12:51		Kareem	OK
6	S5	S5	CAL6	05/02/25 12:55		Kareem	OK
7	ICV01	ICV01	ICV	05/02/25 13:47		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/02/25 15:03		Kareem	OK
9	ICB01	ICB01	ICB	05/02/25 15:08		Kareem	OK
10	CRI01	CRI01	CRDL	05/02/25 15:12		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/02/25 15:30		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/02/25 15:46		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/02/25 15:52		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/02/25 15:56		Kareem	OK
15	CCV01	CCV01	CCV	05/02/25 16:01		Kareem	OK
16	CCB01	CCB01	CCB	05/02/25 16:05		Kareem	OK
17	Q1913-02	WC-12-A-202504	SAM	05/02/25 16:09		Kareem	OK
18	Q1913-02DUP	WC-12-A-202504DUP	DUP	05/02/25 16:13		Kareem	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135654

Review By	Janvi	Review On	5/5/2025 2:22:19 PM
Supervise By	jaswal	Supervise On	5/6/2025 4:52:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85022,MP85020,MP85019,MP85018,MP85017
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	Q1913-02L	WC-12-A-202504L	SD	05/02/25 16:18		Kareem	OK
20	Q1913-02MS	WC-12-A-202504MS	MS	05/02/25 16:22		Kareem	OK
21	Q1913-02MSD	WC-12-A-202504MSD	MSD	05/02/25 16:26		Kareem	OK
22	Q1913-02A	WC-12-A-202504A	PS	05/02/25 16:30	0.1ML EACH M6004,M6013-10ML SAMPLE	Kareem	OK
23	CCV02	CCV02	CCV	05/02/25 16:34		Kareem	OK
24	CCB02	CCB02	CCB	05/02/25 16:38		Kareem	OK

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167806

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/30/2025 **Time :** 13:30 **Temp :** 94 °C

End Digest Date: 04/30/2025 **Time :** 15:30 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85503
CCV	30mL	MP855505
CRA	30mL	MP85507
Blank Spike	0.48mL	MP85494
Matrix Spike	0.48mL	MP85494

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP85240
KMnO4 (5%)	4.5mL	MP85241
K2S2O8 (5%)	2.5mL	MP85242
Hydroxylamine HCL (12%)	2.0mL	MP85243
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85495
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85497
2.5 ppb	S2.5	30mL	MP85498
5.0 ppb	S5.0	30mL	MP85499
7.5 ppb	S7.5	30mL	MP85500
10.0 ppb	S10.0	30mL	MP85502
ICV	ICV	30mL	MP85503
ICB	ICB	30mL	MP85504
CCV	CCV	30mL	MP85505
CCB	CCB	30mL	MP85506
CRI	CRI	30mL	MP85507
CHK STD	CHK STD	30mL	MP85508

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/30/25 @ 16:00	HG - Dig. Lab	HG-metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167806

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167774TB	PB167774TB	3	30	<2	N/A	3-1
PB167806BL	PBW806	30	30	<2	N/A	2
PB167806BS	LCS806	30	30	<2	MP85494	3
Q1901-08DUP	B-167-SB01DUP	3	30	<2	N/A	5
Q1901-08MS	B-167-SB01MS	3	30	<2	MP85494	6
Q1901-08MSD	B-167-SB01MSD	3	30	<2	MP85494	7
Q1901-08	B-167-SB01	3	30	<2	N/A	4
Q1901-09	B-170-SB01	3	30	<2	N/A	8
Q1901-10	B-167-SB02	3	30	<2	N/A	9
Q1901-11	B-170-SB02	3	30	<2	N/A	10
Q1904-02	VNJ-210	3	30	<2	N/A	11
Q1905-04	MH-G	3	30	<2	N/A	12
Q1905-08	MH-H	3	30	<2	N/A	13
Q1906-04	WC-4	3	30	<2	N/A	14
Q1906-08	WC-5	3	30	<2	N/A	15
Q1906-12	WC-6	3	30	<2	N/A	16
Q1906-16	WC-7	3	30	<2	N/A	17
Q1907-02	CO-8R-WC	3	30	<2	N/A	18
Q1912-04	MH-E	3	30	<2	N/A	19
Q1912-08	MH-F	3	30	<2	N/A	20
Q1915-01	WC-04282025	3	30	<2	N/A	21
Q1915-01	WC-04282025	3	30	<2	N/A	21

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167808

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 04/30/2025 **Time :** 13:35 **Temp :** 96 °C

End Digest Date: 04/30/2025 **Time :** 16:40 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: S129.

Supervisor Signature: MB

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6005
LFS-2	0.25	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 17:40	S129. met.dig	MB- Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167808

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167774TB	PB167774TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
PB167805TB	PB167805TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
PB167808BL	PBW808	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	3
PB167808BS	LCS808	<2	5	25	Colorless	Colorless	Clear	Clear	M6005,M6016	4
Q1894-01	PAINTED-GROUND-PIPE--1	<2	5	25	light Brown	Colorless	Clear	Clear	N/A	5
Q1894-02	PAINTED-GROUND-PIPE-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
Q1894-03	PAINTED-GROUND-PIPE-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	7
Q1901-08	B-167-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	8
Q1901-09	B-170-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
Q1901-10	B-167-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
Q1901-11	B-170-SB02	<2	5	25	light Brown	Colorless	Clear	Clear	N/A	11
Q1904-02	VNJ-210	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
Q1905-04	MH-G	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
Q1905-08	MH-H	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
Q1906-04	WC-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
Q1906-08	WC-5	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
Q1906-12	WC-6	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	17
Q1906-16	WC-7	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q1907-02	CO-8R-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q1912-04	MH-E	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	20
Q1912-08	MH-F	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	21
Q1913-02	WC-12-A-202504	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q1913-02MS	WC-12-A-202504MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6005,M6016	24
Q1913-02MSD	WC-12-A-202504MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6005,M6016	25
Q1913-02DUP	WC-12-A-202504DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23
Q1913-04	WC-13-A-202504	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	26
Q1915-01	WC-04282025	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	27

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/29/2025 **Time :** 17:20

End Prep Date : 04/30/2025 **Time :** 11:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 10

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Particle size reduction is not required. q1894-01,02 and 03 we receive limited volume so no fluid determation. Q1901-08 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 13:00	JP Prep Room	SLG. RJ/ET
	Preparation Group	Analysis Group MTN,JG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167774

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-1
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-1
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-1
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB167774

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	100	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	100	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	100	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167774

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.02	96.5	8.4	3.0	#1	4.93
Q1901-09	B-170-SB01	5.01	96.5	9.0	4.0	#1	4.93
Q1901-10	B-167-SB02	5.02	96.5	7.0	3.5	#1	4.93
Q1901-11	B-170-SB02	5.03	96.5	8.2	3.5	#1	4.93
Q1904-02	VNJ-210	5.04	96.5	8.4	3.0	#1	4.93
Q1905-04	MH-G	5.03	96.5	5.6	1.5	#1	4.93
Q1905-08	MH-H	5.02	96.5	6.0	2.0	#1	4.93
Q1906-04	WC-4	5.03	96.5	7.6	2.5	#1	4.93
Q1906-08	WC-5	5.02	96.5	7.0	2.5	#1	4.93
Q1906-12	WC-6	5.01	96.5	6.6	2.0	#1	4.93
Q1906-16	WC-7	5.02	96.5	6.6	2.0	#1	4.93
Q1907-02	CO-8R-WC	5.02	96.5	8.4	3.0	#1	4.93
Q1912-04	MH-E	5.01	96.5	6.6	2.0	#1	4.93
Q1912-08	MH-F	5.02	96.5	6.4	2.0	#1	4.93
Q1913-01	WC-12-S-202504	5.02	96.5	8.2	3.5	#1	4.93
Q1913-03	WC-13-S-202504	5.01	96.5	8.0	3.0	#1	4.93
Q1915-01	WC-04282025	5.02	96.5	8.4	3.5	#1	4.93



SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 10:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
		% Solid:	82.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.083	U	1	0.083	0.48	mg/Kg	04/29/25 09:00	04/29/25 13:50	7196A
pH	8.45	H	1	0	0	pH		04/29/25 08:35	9045D
Trivalent Chromium	13.3		1	0.61	0.61	mg/Kg		04/30/25 21:21	6010D

Comments: pH result reported at temperature 21.3 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 10:15
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
		% Solid:	83

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.084	U	1	0.084	0.48	mg/Kg	04/29/25 09:00	04/29/25 13:57	7196A
pH	8.99	H	1	0	0	pH		04/29/25 08:40	9045D
Trivalent Chromium	12.2		1	0.60	0.60	mg/Kg		04/30/25 21:25	6010D

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 10:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
		% Solid:	53.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.13	U	1	0.13	0.74	mg/Kg	04/29/25 09:00	04/29/25 13:58	7196A
pH	7.07	H	1	0	0	pH		04/29/25 08:44	9045D
Trivalent Chromium	28.8		1	0.94	0.94	mg/Kg		04/30/25 21:29	6010D

Comments: pH result reported at temperature 21.0 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 11:45
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
		% Solid:	75.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.091	U	1	0.091	0.52	mg/Kg	04/29/25 09:00	04/29/25 13:59	7196A
pH	8.16	H	1	0	0	pH		04/29/25 08:47	9045D
Trivalent Chromium	8.86		1	0.67	0.67	mg/Kg		04/30/25 21:33	6010D

Comments: pH result reported at temperature 20.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 12:15
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		04/28/25 09:37	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		05/01/25 17:57	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 10:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.45	H	1	0	0	pH		04/29/25 08:35	9045D
Ignitability	NO		1	0	0	oC		04/30/25 12:00	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	04/28/25 11:45	04/28/25 15:00	9012B
Reactive Sulfide	1.59	J	1	0.20	10.0	mg/Kg	04/28/25 15:30	04/29/25 11:48	9034

Comments: pH result reported at temperature 21.3 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 10:15
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.99	H	1	0	0	pH		04/29/25 08:40	9045D
Ignitability	NO		1	0	0	oC		04/30/25 12:15	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.049	mg/Kg	04/28/25 11:45	04/28/25 15:00	9012B
Reactive Sulfide	4.78	J	1	0.20	10.0	mg/Kg	04/28/25 15:30	04/29/25 11:50	9034

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 10:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.07	H	1	0	0	pH		04/29/25 08:44	9045D
Ignitability	NO		1	0	0	oC		04/30/25 12:23	1030
Reactive Cyanide	0.0083	J	1	0.0083	0.049	mg/Kg	04/28/25 11:45	04/28/25 15:00	9012B
Reactive Sulfide	6.31	J	1	0.20	10.0	mg/Kg	04/28/25 15:30	04/29/25 11:53	9034

Comments: pH result reported at temperature 21.0 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25 11:45
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.16	H	1	0	0	pH		04/29/25 08:47	9045D
Ignitability	NO		1	0	0	oC		04/30/25 12:30	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	04/28/25 11:45	04/28/25 15:07	9012B
Reactive Sulfide	6.32	J	1	0.20	10.0	mg/Kg	04/28/25 15:30	04/29/25 11:56	9034

Comments: pH result reported at temperature 20.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135579

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	04/28/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	04/28/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	04/28/2025

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135581

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.096	0.099	97	85-115	04/28/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/28/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/28/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	04/28/2025
Sample ID: CCV4						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	04/28/2025
Sample ID: CCV5						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	04/28/2025

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135585

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Corrosivity		pH	7.01	7	100	90-110	04/29/2025
Sample ID:	**CCV1**						
Corrosivity		pH	2.01	2.00	101	90-110	04/29/2025
Sample ID:	**CCV2**						
Corrosivity		pH	12.02	12.00	100	90-110	04/29/2025
Sample ID:	**CCV3**						
Corrosivity		pH	2.01	2.00	101	90-110	04/29/2025

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135586

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.01	7	100	90-110	04/29/2025
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	04/29/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	04/29/2025

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135596

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.491	0.5	98	90-110	04/29/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	04/29/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.491	0.5	98	90-110	04/29/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	04/29/2025
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	04/29/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135579

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/28/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/28/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/28/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135581

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/28/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/28/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/28/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	0.0011	0.0025	J	0.00096	0.005	04/28/2025
Sample ID: CCB4							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/28/2025
Sample ID: CCB5							
Reactive Cyanide	mg/L	0.0011	0.0025	J	0.00096	0.005	04/28/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135596

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/29/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/29/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/29/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/29/2025
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/29/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135579BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	04/28/2025
Sample ID: PB167751BL							
Reactive Cyanide	mg/Kg	0.0085	0.0250	J	0.0084	0.05	04/28/2025
Sample ID: PB167784BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	04/29/2025
Sample ID: PB167785BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	04/29/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1901-02
Client ID: B-167-SB01MS
Percent Solids for Spike Sample: 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1500		0.083	U	1550	40	97		04/29/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1901-02
Client ID: B-167-SB01MS
Percent Solids for Spike Sample: 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	46.5		0.083	U	48.4	2	96		04/29/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1901-02
Client ID: B-167-SB01MS
Percent Solids for Spike Sample: 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	40.8		0.083	U	48.4	2	84		04/29/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1896-01
Client ID: 295-BERGEN-RODUP
Percent Solids for Spike Sample: 86.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.011	J	0.011	J	1	0		04/28/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1901-02
Client ID: B-167-SB01DUP
Percent Solids for Spike Sample: 82.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.083	U	0.083	U	1	0		04/29/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1901-05
Client ID: B-170-SB02DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	8.16		8.17		1	0.12		04/29/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1901-08
Client ID: B-167-SB01DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		04/30/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: WC-7DUP
SDG No.: Q1901
Sample ID: Q1906-16
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	3.15	J	3.15	J	1	0		04/29/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1907-02
Client ID: CO-8R-WCDUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	8.41		8.42		1	0.12		04/29/2025

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Laboratory Control Sample Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Run No.:** LB135579

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135579BS								
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	04/28/2025

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Laboratory Control Sample Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1901

Project: Amtrak Sawtooth Bridges 2025 **Run No.:** LB135596

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167785BS								
Hexavalent Chromium	mg/Kg	20	19.9		100	1	84-110	04/29/2025

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135579

Review By	rubina	Review On	4/29/2025 12:35:11 PM
Supervise By	Iwona	Supervise On	4/30/2025 4:45:30 PM
SubDirectory	LB135579	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112876,WP112875,WP112873,WP112872,WP112869,WP112831,WP112874,WP112879,WP112877,WP112878

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/28/25 09:30		rubina	OK
2	CAL2	CAL2	CAL	04/28/25 09:30		rubina	OK
3	CAL3	CAL3	CAL	04/28/25 09:31		rubina	OK
4	CAL4	CAL4	CAL	04/28/25 09:31		rubina	OK
5	CAL5	CAL5	CAL	04/28/25 09:32		rubina	OK
6	CAL6	CAL6	CAL	04/28/25 09:32		rubina	OK
7	CAL7	CAL7	CAL	04/28/25 09:33		rubina	OK
8	ICV	ICV	ICV	04/28/25 09:33		rubina	OK
9	ICB	ICB	ICB	04/28/25 09:34		rubina	OK
10	CCV1	CCV1	CCV	04/28/25 09:34		rubina	OK
11	CCB1	CCB1	CCB	04/28/25 09:35		rubina	OK
12	RL Check	RL Check	SAM	04/28/25 09:35		rubina	OK
13	LB135579BL	LB135579BL	MB	04/28/25 09:36		rubina	OK
14	LB135579BS	LB135579BS	LCS	04/28/25 09:36		rubina	OK
15	Q1901-06	FB04262025	SAM	04/28/25 09:37		rubina	OK
16	CCV2	CCV2	CCV	04/28/25 09:37		rubina	OK
17	CCB2	CCB2	CCB	04/28/25 09:38		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135581

Review By	rubina	Review On	4/29/2025 12:54:08 PM
Supervise By	Iwona	Supervise On	4/29/2025 12:54:49 PM
SubDirectory	LB135581	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112860,WP112861,WP112862,WP112863,WP112864,WP112865,WP112866
ICV Standard	WP112867
CCV Standard	WP112861
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP111035,WP112868

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/28/25 11:29		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/28/25 11:29		rubina	OK
3	10PPBCN	10PPBCN	CAL3	04/28/25 11:29		rubina	OK
4	50PPBCN	50PPBCN	CAL4	04/28/25 11:29		rubina	OK
5	100PPBCN	100PPBCN	CAL5	04/28/25 11:29		rubina	OK
6	250PPBCN	250PPBCN	CAL6	04/28/25 11:29		rubina	OK
7	500PPBCN	500PPBCN	CAL7	04/28/25 11:29		rubina	OK
8	ICV1	ICV1	ICV	04/28/25 14:22		rubina	OK
9	ICB1	ICB1	ICB	04/28/25 14:22		rubina	OK
10	CCV1	CCV1	CCV	04/28/25 14:22		rubina	OK
11	CCB1	CCB1	CCB	04/28/25 14:22		rubina	OK
12	PB167732BL	PB167732BL	MB	04/28/25 14:22		rubina	OK
13	Q1865-01	COMP-1	SAM	04/28/25 14:29		rubina	OK
14	Q1865-02	COMP-2	SAM	04/28/25 14:29		rubina	OK
15	Q1865-03	COMP-3	SAM	04/28/25 14:29		rubina	OK
16	Q1865-04	COMP-4	SAM	04/28/25 14:29		rubina	OK
17	Q1869-04	MH-F	SAM	04/28/25 14:29		rubina	OK
18	Q1871-04	MH-A	SAM	04/28/25 14:29		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135581

Review By	rubina	Review On	4/29/2025 12:54:08 PM
Supervise By	Iwona	Supervise On	4/29/2025 12:54:49 PM
SubDirectory	LB135581	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112860,WP112861,WP112862,WP112863,WP112864,WP112865,WP112866
ICV Standard	WP112867
CCV Standard	WP112861
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP111035,WP112868

19	Q1871-08	MH-B	SAM	04/28/25 14:29		rubina	OK
20	Q1874-02	VNJ-236	SAM	04/28/25 14:29		rubina	OK
21	Q1874-04	RT1491	SAM	04/28/25 14:29		rubina	OK
22	CCV2	CCV2	CCV	04/28/25 14:37		rubina	OK
23	CCB2	CCB2	CCB	04/28/25 14:37		rubina	OK
24	Q1874-06	HT3727	SAM	04/28/25 14:37		rubina	OK
25	Q1875-02	AUD-25-0053	SAM	04/28/25 14:37		rubina	OK
26	Q1891-04	MH-C	SAM	04/28/25 14:37		rubina	OK
27	Q1891-08	MH-D	SAM	04/28/25 14:37		rubina	OK
28	Q1892-04	MH-G	SAM	04/28/25 14:37		rubina	OK
29	Q1892-08	MH-H	SAM	04/28/25 14:37		rubina	OK
30	Q1892-12	MH-U2	SAM	04/28/25 14:44		rubina	OK
31	Q1895-02	COMP-1	SAM	04/28/25 14:44		rubina	OK
32	Q1895-04	COMP-2	SAM	04/28/25 14:44		rubina	OK
33	CCV3	CCV3	CCV	04/28/25 14:45		rubina	OK
34	CCB3	CCB3	CCB	04/28/25 14:45		rubina	OK
35	Q1895-06	COMP-3	SAM	04/28/25 14:52		rubina	OK
36	Q1895-06DUP	COMP-3DUP	DUP	04/28/25 14:52		rubina	OK
37	PB167751BL	PB167751BL	MB	04/28/25 14:52		rubina	OK
38	Q1896-01	295-BERGEN-RO	SAM	04/28/25 14:52		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135581

Review By	rubina	Review On	4/29/2025 12:54:08 PM
Supervise By	Iwona	Supervise On	4/29/2025 12:54:49 PM
SubDirectory	LB135581	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112860,WP112861,WP112862,WP112863,WP112864,WP112865,WP112866
ICV Standard	WP112867
CCV Standard	WP112861
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP111035,WP112868

39	Q1896-01DUP	295-BERGEN-RODUI	DUP	04/28/25 14:52		rubina	OK
40	Q1900-08	WC-2	SAM	04/28/25 14:52		rubina	OK
41	Q1900-12	WC-3	SAM	04/28/25 14:52		rubina	OK
42	Q1901-08	B-167-SB01	SAM	04/28/25 15:00		rubina	OK
43	Q1901-09	B-170-SB01	SAM	04/28/25 15:00		rubina	OK
44	Q1901-10	B-167-SB02	SAM	04/28/25 15:00		rubina	OK
45	CCV4	CCV4	CCV	04/28/25 15:00		rubina	OK
46	CCB4	CCB4	CCB	04/28/25 15:00		rubina	OK
47	Q1901-11	B-170-SB02	SAM	04/28/25 15:07		rubina	OK
48	Q1900-04	WC-1	SAM	04/28/25 15:07		rubina	OK
49	CCV5	CCV5	CCV	04/28/25 15:07		rubina	OK
50	CCB5	CCB5	CCB	04/28/25 15:49		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135585

Review By	jignesh	Review On	4/29/2025 11:59:03 AM
Supervise By	Iwona	Supervise On	4/29/2025 12:15:01 PM
SubDirectory	LB135585	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/29/25 08:20		Jignesh	OK
2	CAL2	CAL2	CAL	04/29/25 08:21		Jignesh	OK
3	CAL3	CAL3	CAL	04/29/25 08:22		Jignesh	OK
4	ICV	ICV	ICV	04/29/25 08:25		Jignesh	OK
5	CCV1	CCV1	CCV	04/29/25 08:30		Jignesh	OK
6	Q1901-08	B-167-SB01	SAM	04/29/25 08:35		Jignesh	OK
7	Q1901-09	B-170-SB01	SAM	04/29/25 08:40		Jignesh	OK
8	Q1901-10	B-167-SB02	SAM	04/29/25 08:44		Jignesh	OK
9	Q1901-11	B-170-SB02	SAM	04/29/25 08:47		Jignesh	OK
10	Q1904-02	VNJ-210	SAM	04/29/25 08:55		Jignesh	OK
11	Q1905-04	MH-G	SAM	04/29/25 09:00		Jignesh	OK
12	Q1905-08	MH-H	SAM	04/29/25 09:10		Jignesh	OK
13	Q1906-04	WC-4	SAM	04/29/25 09:15		Jignesh	OK
14	Q1906-08	WC-5	SAM	04/29/25 09:20		Jignesh	OK
15	Q1906-12	WC-6	SAM	04/29/25 09:30		Jignesh	OK
16	CCV2	CCV2	CCV	04/29/25 09:35		Jignesh	OK
17	Q1906-16	WC-7	SAM	04/29/25 09:35		Jignesh	OK
18	Q1907-02	CO-8R-WC	SAM	04/29/25 09:44		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135585

Review By	jignesh	Review On	4/29/2025 11:59:03 AM
Supervise By	Iwona	Supervise On	4/29/2025 12:15:01 PM
SubDirectory	LB135585	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072

19	Q1907-02DUP	CO-8R-WCDUP	DUP	04/29/25 09:45		Jignesh	OK
20	CCV3	CCV3	CCV	04/29/25 09:50		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135586

Review By	jignesh	Review On	4/29/2025 12:06:41 PM
Supervise By	Iwona	Supervise On	4/29/2025 12:14:48 PM
SubDirectory	LB135586	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/29/25 08:20		Jignesh	OK
2	CAL2	CAL2	CAL	04/29/25 08:21		Jignesh	OK
3	CAL3	CAL3	CAL	04/29/25 08:22		Jignesh	OK
4	ICV	ICV	ICV	04/29/25 08:25		Jignesh	OK
5	CCV1	CCV1	CCV	04/29/25 08:30		Jignesh	OK
6	Q1901-02	B-167-SB01	SAM	04/29/25 08:35		Jignesh	OK
7	Q1901-03	B-170-SB01	SAM	04/29/25 08:40		Jignesh	OK
8	Q1901-04	B-167-SB02	SAM	04/29/25 08:44		Jignesh	OK
9	Q1901-05	B-170-SB02	SAM	04/29/25 08:47		Jignesh	OK
10	Q1901-05DUP	B-170-SB02DUP	DUP	04/29/25 08:48		Jignesh	OK
11	CCV2	CCV2	CCV	04/29/25 09:35		Jignesh	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135593

Review By	rubina	Review On	4/29/2025 1:25:39 PM
Supervise By	Iwona	Supervise On	4/29/2025 1:51:22 PM
SubDirectory	LB135593	Test	Reactive Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3105,W3114,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167784BL	PB167784BL	MB	04/29/25 11:35		rubina	OK
2	Q1896-01	295-BERGEN-RO	SAM	04/29/25 11:38		rubina	OK
3	Q1900-04	WC-1	SAM	04/29/25 11:40		rubina	OK
4	Q1900-08	WC-2	SAM	04/29/25 11:42		rubina	OK
5	Q1900-12	WC-3	SAM	04/29/25 11:45		rubina	OK
6	Q1901-08	B-167-SB01	SAM	04/29/25 11:48		rubina	OK
7	Q1901-09	B-170-SB01	SAM	04/29/25 11:50		rubina	OK
8	Q1901-10	B-167-SB02	SAM	04/29/25 11:53		rubina	OK
9	Q1901-11	B-170-SB02	SAM	04/29/25 11:56		rubina	OK
10	Q1904-02	VNJ-210	SAM	04/29/25 11:59		rubina	OK
11	Q1906-04	WC-4	SAM	04/29/25 12:02		rubina	OK
12	Q1906-08	WC-5	SAM	04/29/25 12:04		rubina	OK
13	Q1906-12	WC-6	SAM	04/29/25 12:07		rubina	OK
14	Q1906-16	WC-7	SAM	04/29/25 12:10		rubina	OK
15	Q1906-16DUP	WC-7DUP	DUP	04/29/25 12:13		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135596

Review By	rubina	Review On	4/29/2025 3:09:23 PM
Supervise By	Iwona	Supervise On	4/29/2025 3:10:25 PM
SubDirectory	LB135596	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112869,WP112831,WP112830,WP111249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/29/25 13:30		rubina	OK
2	CAL2	CAL2	CAL	04/29/25 13:31		rubina	OK
3	CAL3	CAL3	CAL	04/29/25 13:32		rubina	OK
4	CAL4	CAL4	CAL	04/29/25 13:33		rubina	OK
5	CAL5	CAL5	CAL	04/29/25 13:34		rubina	OK
6	CAL6	CAL6	CAL	04/29/25 13:35		rubina	OK
7	CAL7	CAL7	CAL	04/29/25 13:36		rubina	OK
8	ICV	ICV	ICV	04/29/25 13:37		rubina	OK
9	ICB	ICB	ICB	04/29/25 13:38		rubina	OK
10	CCV1	CCV1	CCV	04/29/25 13:39		rubina	OK
11	CCB1	CCB1	CCB	04/29/25 13:40		rubina	OK
12	RL Check	RL Check	SAM	04/29/25 13:41		rubina	OK
13	PB167785BL	PB167785BL	MB	04/29/25 13:42		rubina	OK
14	PB167785BS	PB167785BS	LCS	04/29/25 13:43		rubina	OK
15	Q1892-01	MH-G	SAM	04/29/25 13:44		rubina	OK
16	Q1892-05	MH-H	SAM	04/29/25 13:45		rubina	OK
17	Q1892-09	MH-U2	SAM	04/29/25 13:46		rubina	OK
18	Q1900-01	WC-1	SAM	04/29/25 13:47		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135596

Review By	rubina	Review On	4/29/2025 3:09:23 PM
Supervise By	Iwona	Supervise On	4/29/2025 3:10:25 PM
SubDirectory	LB135596	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112869,WP112831,WP112830,WP111249

19	Q1900-05	WC-2	SAM	04/29/25 13:48		rubina	OK
20	Q1900-09	WC-3	SAM	04/29/25 13:49		rubina	OK
21	Q1901-02	B-167-SB01	SAM	04/29/25 13:50		rubina	OK
22	Q1901-02DUP	B-167-SB01DUP	DUP	04/29/25 13:51		rubina	OK
23	CCV2	CCV2	CCV	04/29/25 13:52		rubina	OK
24	CCB2	CCB2	CCB	04/29/25 13:53		rubina	OK
25	Q1901-02MSPre	B-167-SB01MS	MS	04/29/25 13:54		rubina	OK
26	Q1901-02MS2Ins	B-167-SB01MS	MS	04/29/25 13:55		rubina	OK
27	Q1901-02MS3Post	B-167-SB01MS	MS	04/29/25 13:56		rubina	OK
28	Q1901-03	B-170-SB01	SAM	04/29/25 13:57		rubina	OK
29	Q1901-04	B-167-SB02	SAM	04/29/25 13:58		rubina	OK
30	Q1901-05	B-170-SB02	SAM	04/29/25 13:59		rubina	OK
31	Q1903-01	COMP-4	SAM	04/29/25 14:00		rubina	OK
32	Q1903-02	COMP-5	SAM	04/29/25 14:01		rubina	OK
33	Q1903-03	COMP-6	SAM	04/29/25 14:02		rubina	OK
34	Q1904-01	VNJ-210	SAM	04/29/25 14:03		rubina	OK
35	CCV3	CCV3	CCV	04/29/25 14:04		rubina	OK
36	CCB3	CCB3	CCB	04/29/25 14:05		rubina	OK
37	Q1906-01	WC-4	SAM	04/29/25 14:06		rubina	OK
38	Q1906-05	WC-5	SAM	04/29/25 14:07		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135596

Review By	rubina	Review On	4/29/2025 3:09:23 PM
Supervise By	Iwona	Supervise On	4/29/2025 3:10:25 PM
SubDirectory	LB135596	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112869,WP112831,WP112830,WP111249

39	Q1906-09	WC-6	SAM	04/29/25 14:08		rubina	OK
40	Q1906-13	WC-7	SAM	04/29/25 14:09		rubina	OK
41	Q1907-01	CO-8R-WC	SAM	04/29/25 14:10		rubina	OK
42	CCV4	CCV4	CCV	04/29/25 14:11		rubina	OK
43	CCB4	CCB4	CCB	04/29/25 14:12		rubina	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB135603

Review By	Iwona	Review On	4/30/2025 3:52:54 PM
Supervise By	jignesh	Supervise On	4/30/2025 3:54:01 PM
SubDirectory	LB135603	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q1901-08	B-167-SB01	SAM	04/30/25 12:00		Iwona	OK
2	Q1901-08DUP	B-167-SB01DUP	DUP	04/30/25 12:08		Iwona	OK
3	Q1901-09	B-170-SB01	SAM	04/30/25 12:15		Iwona	OK
4	Q1901-10	B-167-SB02	SAM	04/30/25 12:23		Iwona	OK
5	Q1901-11	B-170-SB02	SAM	04/30/25 12:30		Iwona	OK
6	Q1904-01	VNJ-210	SAM	04/30/25 12:37		Iwona	OK
7	Q1904-02	VNJ-210	SAM	04/30/25 12:45		Iwona	OK
8	Q1905-01	MH-G	SAM	04/30/25 12:53		Iwona	OK
9	Q1905-04	MH-G	SAM	04/30/25 13:00		Iwona	OK
10	Q1905-05	MH-H	SAM	04/30/25 13:07		Iwona	OK
11	Q1905-08	MH-H	SAM	04/30/25 13:14		Iwona	OK
12	Q1906-04	WC-4	SAM	04/30/25 13:30		Iwona	OK
13	Q1906-05	WC-5	SAM	04/30/25 13:38		Iwona	OK
14	Q1906-08	WC-5	SAM	04/30/25 13:45		Iwona	OK
15	Q1906-09	WC-6	SAM	04/30/25 13:52		Iwona	OK
16	Q1906-12	WC-6	SAM	04/30/25 14:00		Iwona	OK
17	Q1906-13	WC-7	SAM	04/30/25 14:08		Iwona	OK
18	Q1906-16	WC-7	SAM	04/30/25 14:15		Iwona	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB135603

Review By	Iwona	Review On	4/30/2025 3:52:54 PM
Supervise By	jignesh	Supervise On	4/30/2025 3:54:01 PM
SubDirectory	LB135603	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

19	Q1906-01	WC-4	SAM	04/30/25 14:22		Iwona	OK
20	Q1907-02	CO-8R-WC	SAM	04/30/25 14:22		Iwona	OK

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LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25 10:00**			**04/28/25**
			Hexavalent Chromium	7196A		04/29/25	04/29/25 13:50	
			pH	9045D			04/29/25 08:35	
			Trivalent Chromium	6010D			04/30/25 21:21	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25 10:15**			**04/28/25**
			Hexavalent Chromium	7196A		04/29/25	04/29/25 13:57	
			pH	9045D			04/29/25 08:40	
			Trivalent Chromium	6010D			04/30/25 21:25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25 10:30**			**04/28/25**
			Hexavalent Chromium	7196A		04/29/25	04/29/25 13:58	
			pH	9045D			04/29/25 08:44	
			Trivalent Chromium	6010D			04/30/25 21:29	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25 11:45**			**04/28/25**
			Hexavalent Chromium	7196A		04/29/25	04/29/25 13:59	
			pH	9045D			04/29/25 08:47	

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LAB CHRONICLE

			Trivalent Chromium	6010D			04/30/25 21:33	
Q1901-06	**FB04262025**	**WATER**			**04/26/25 12:15**			**04/28/25**
			Hexavalent Chromium	7196A			04/28/25 09:37	
			trivalent Chromium	6010D			05/01/25 17:57	
Q1901-08	**B-167-SB01**	**SOIL**			**04/26/25 10:00**			**04/28/25**
			Corrosivity	9045D			04/29/25 08:35	
			Ignitability	1030			04/30/25 12:00	
			Reactive Cyanide	9012B		04/28/25	04/28/25 15:00	
			Reactive Sulfide	9034		04/28/25	04/29/25 11:48	
Q1901-09	**B-170-SB01**	**SOIL**			**04/26/25 10:15**			**04/28/25**
			Corrosivity	9045D			04/29/25 08:40	
			Ignitability	1030			04/30/25 12:15	
			Reactive Cyanide	9012B		04/28/25	04/28/25 15:00	
			Reactive Sulfide	9034		04/28/25	04/29/25 11:50	
Q1901-10	**B-167-SB02**	**SOIL**			**04/26/25 10:30**			**04/28/25**
			Corrosivity	9045D			04/29/25 08:44	
			Ignitability	1030			04/30/25 12:23	
			Reactive Cyanide	9012B		04/28/25	04/28/25 15:00	
			Reactive Sulfide	9034		04/28/25	04/29/25 11:53	

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LAB CHRONICLE

Q1901-11	**B-170-SB02**	**SOIL**			**04/26/25 11:45**		**04/28/25**
			Corrosivity	9045D			04/29/25 08:47
			Ignitability	1030			04/30/25 12:30
			Reactive Cyanide	9012B		04/28/25	04/28/25 15:07
			Reactive Sulfide	9034		04/28/25	04/29/25 11:56

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167732

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : SOIL

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : RM

Start Digest Date: 04/28/2025 **Time :** 09:50 **Temp :** N/A

End Digest Date: 04/28/2025 **Time :** 11:20 **Temp :** N/A

11 batch 04/28/2025 11:45
04/28/2025 13:15

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/28/2025 11:30	RM (WLC)	RM (WLC)
04/28/2025 13:25	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167732

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167732BL	PBS732	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1865-01	COMP-1	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1865-02	COMP-2	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1865-03	COMP-3	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1865-04	COMP-4	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1869-04	MH-F	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1871-04	MH-A	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1871-08	MH-B	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1874-02	VNJ-236	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1874-04	RT1491	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1874-06	HT3727	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1875-02	AUD-25-0053	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1891-04	MH-C	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1891-08	MH-D	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1892-04	MH-G	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1892-08	MH-H	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1892-12	MH-U2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1895-02	COMP-1	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1895-04	COMP-2	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1895-06	COMP-3	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1895-06DUP	COMP-3DUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167751

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 04/28/2025 **Time :** 11:45 **Temp :** N/A

Matrix : SOIL

End Digest Date: 04/28/2025 **Time :** 13:15 **Temp :** N/A

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** N/A **Supervisor Signature:** JR

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/28/2025 1325	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167751

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167751BL	PBS751	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1896-01	295-BERGEN-RO	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1896-01DUP	295-BERGEN-RODUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-04	WC-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-08	WC-2	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-12	WC-3	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-09	B-170-SB01	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-10	B-167-SB02	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-11	B-170-SB02	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB167784

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 04/28/2025 **Time :** 15:30 **Temp :** N/A

Matrix : SOIL

End Digest Date: 04/28/2025 **Time :** 17:00 **Temp :** N/A

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1, MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP111004
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments: 04/28/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB167784

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167784BL	PBS784	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1896-01	295-BERGEN-RO	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-04	WC-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-08	WC-2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-12	WC-3	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-09	B-170-SB01	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-10	B-167-SB02	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-11	B-170-SB02	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1904-02	VNJ-210	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-04	WC-4	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-08	WC-5	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-12	WC-6	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-16	WC-7	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-16DUP	WC-7DUP	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167785

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-1, WC S-2

Weigh By : JP

Start Digest Date: 04/29/2025 **Time :** 09:00 **Temp :** 90 °C

End Digest Date: 04/29/2025 **Time :** 10:00 **Temp :** 95 °C

1 batch 04/29/2025 10:30 90 C
04/29/2025 11:30 95 C JP

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: JP

Supervisor Signature: IZ

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP112686
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP112880
CAL3	CAL3	0.5ML	WP112880
CAL4	CAL4	1ML	WP112880
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

04/29/2025 JP

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167785

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167785BL	PBS785	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167785BS	LCS785	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1892-01	MH-G	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1892-05	MH-H	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1892-09	MH-U2	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-01	WC-1	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-05	WC-2	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1900-09	WC-3	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-02	B-167-SB01	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-02DUP	B-167-SB01DUP	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-02MSPre	B-167-SB01MSPRE	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-02MS2Ins	B-167-SB01MS2INS	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-02MS3Post	B-167-SB01MS3POST	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-03	B-170-SB01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-04	B-167-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-05	B-170-SB02	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1903-01	COMP-4	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1903-02	COMP-5	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1903-03	COMP-6	2.25	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1904-01	VNJ-210	2.23	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-01	WC-4	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-05	WC-5	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-09	WC-6	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1906-13	WC-7	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1907-01	CO-8R-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A