

LAB CHRONICLE

OrderID:	P5374	OrderDate:	12/20/2024 3:07:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5374-01	BP-VPB-190A-TB-202 41218	Water	VOCMS Group1	8260-Low	12/18/24		12/23/24	12/20/24
P5374-02	BP-VPB-190A-EB-202 41218	Water	VOCMS Group1	8260-Low	12/18/24		12/23/24	12/20/24
P5374-03	BP-VPB-190A-GW-718 -720	Water	VOCMS Group1	8260-Low	12/18/24		12/23/24	12/20/24
P5374-04	BP-VPB-190A-GW-748 -750	Water	VOCMS Group1	8260-Low	12/19/24		12/23/24	12/20/24

Hit Summary Sheet
SW-846

SDG No.: P5374
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: BP-VPB-190A-GW-718-720									
P5374-03	BP-VPB-190A-GW	Water	1,1,2-Trichlorotrifluoroethane	6.90		0.25	0.50	1.00	ug/L
P5374-03	BP-VPB-190A-GW	Water	1,1-Dichloroethene	1.90		0.26	0.75	1.00	ug/L
P5374-03	BP-VPB-190A-GW	Water	Acetone	3.70	J	1.40	3.80	5.00	ug/L
P5374-03	BP-VPB-190A-GW	Water	cis-1,2-Dichloroethene	0.73	J	0.25	0.75	1.00	ug/L
P5374-03	BP-VPB-190A-GW	Water	Trichloroethene	63.0		0.32	0.75	1.00	ug/L
Total Voc :				76.2					
Total Concentration:				76.2					
Client ID: BP-VPB-190A-GW-748-750									
P5374-04	BP-VPB-190A-GW	Water	1,1,2-Trichlorotrifluoroethane	12.3		0.25	0.50	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	1,1-Dichloroethene	5.20		0.26	0.75	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	1,1-Dichloroethane	0.62	J	0.23	0.50	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	Carbon Tetrachloride	0.72	J	0.25	0.50	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	Chloroform	0.45	J	0.26	0.50	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	Trichloroethene	130	M	0.32	0.75	1.00	ug/L
P5374-04	BP-VPB-190A-GW	Water	1,1,2-Trichloroethane	0.37	J	0.21	0.50	1.00	ug/L
Total Voc :				152					
Total Concentration:				152					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/18/24	
Project:	CTO WE13			Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-TB-20241218			SDG No.:	P5374	
Lab Sample ID:	P5374-01			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044479.D	1		12/23/24 14:52	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-TB-20241218		SDG No.:	P5374	
Lab Sample ID:	P5374-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044479.D	1		12/23/24 14:52	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.5		81 - 118		81%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	50.0		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	145000	5.544				
540-36-3	1,4-Difluorobenzene	251000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	90700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-TB-20241218		SDG No.:	P5374	
Lab Sample ID:	P5374-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044479.D	1		12/23/24 14:52	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/18/24	
Project:	CTO WE13			Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-EB-20241218			SDG No.:	P5374	
Lab Sample ID:	P5374-02			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044480.D	1		12/23/24 15:15	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-EB-20241218		SDG No.:	P5374	
Lab Sample ID:	P5374-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044480.D	1		12/23/24 15:15	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.5		81 - 118		83%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	51.7		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	136000	5.543				
540-36-3	1,4-Difluorobenzene	244000	6.757				
3114-55-4	Chlorobenzene-d5	221000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	90800	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-EB-20241218		SDG No.:	P5374	
Lab Sample ID:	P5374-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044480.D	1		12/23/24 15:15	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-718-720		SDG No.:	P5374	
Lab Sample ID:	P5374-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044478.D	1		12/23/24 14:29	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	6.90		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.90		0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.73	J	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	63.0		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-718-720		SDG No.:	P5374	
Lab Sample ID:	P5374-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044478.D	1		12/23/24 14:29	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.9		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	133000	5.544				
540-36-3	1,4-Difluorobenzene	236000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	92400	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-718-720		SDG No.:	P5374	
Lab Sample ID:	P5374-03		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044478.D	1		12/23/24 14:29	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/19/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750		SDG No.:	P5374	
Lab Sample ID:	P5374-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044481.D	1		12/23/24 15:38	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	12.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	5.20		0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.40	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.62	J	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.72	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.45	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	130	M	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.37	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/19/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750		SDG No.:	P5374	
Lab Sample ID:	P5374-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044481.D	1		12/23/24 15:38	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	UQ	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		80 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	60.1	*	89 - 112		120%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.7		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.544				
540-36-3	1,4-Difluorobenzene	238000	6.757				
3114-55-4	Chlorobenzene-d5	213000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	92600	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/19/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750		SDG No.:	P5374	
Lab Sample ID:	P5374-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044481.D	1		12/23/24 15:38	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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

Surrogate Summary

SDG No.: **P5374**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5374-01	BP-VPB-190A-TB-20241218	1,2-Dichloroethane-d4	50	40.5	81	81	118
		Dibromofluoromethane	50	46.4	93	80	119
		Toluene-d8	50	50.0	100	89	112
		4-Bromofluorobenzene	50	45.7	91	85	114
P5374-02	BP-VPB-190A-EB-20241218	1,2-Dichloroethane-d4	50	41.5	83	81	118
		Dibromofluoromethane	50	46.1	92	80	119
		Toluene-d8	50	51.7	103	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
P5374-03	BP-VPB-190A-GW-718-720	1,2-Dichloroethane-d4	50	41.9	84	81	118
		Dibromofluoromethane	50	46.5	93	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	49.7	99	85	114
P5374-04	BP-VPB-190A-GW-748-750	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	55.3	111	80	119
		Toluene-d8	50	60.1	120 *	89	112
		4-Bromofluorobenzene	50	56.7	113	85	114
P5374-05MS	BP-VPB-190A-GW-748-750MS	1,2-Dichloroethane-d4	50	39.3	79 *	81	118
		Dibromofluoromethane	50	48.6	97	80	119
		Toluene-d8	50	49.4	99	89	112
		4-Bromofluorobenzene	50	48.3	97	85	114
P5374-06MSD	BP-VPB-190A-GW-748-750MSD	1,2-Dichloroethane-d4	50	40.1	80 *	81	118
		Dibromofluoromethane	50	49.2	98	80	119
		Toluene-d8	50	49.4	99	89	112
		4-Bromofluorobenzene	50	48.7	97	85	114
VX1223WBL01	VX1223WBL01	1,2-Dichloroethane-d4	50	41.8	84	81	118
		Dibromofluoromethane	50	46.7	93	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	45.8	92	85	114
VX1223WBS03	VX1223WBS03	1,2-Dichloroethane-d4	50	43.7	87	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	52.0	104	85	114

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

		Sample				Rec	RPD		Limits		
Parameter	Spike	Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID :	P5374-05MS	Client Sample ID :	BP-VPB-190A-GW-748-750MS				Datafile :	VX044482.D			
Chloromethane	50	0	48.1	ug/L	96				50	139	
Vinyl chloride	50	0	45.7	ug/L	91				58	137	
Bromomethane	50	0	43.1	ug/L	86				53	141	
Chloroethane	50	0	48.2	ug/L	96				60	138	
Trichlorofluoromethane	50	0	36.7	ug/L	73				65	141	
1,1,2-Trichlorotrifluoroethane	50	12.3	59.8	ug/L	95				70	136	
1,1-Dichloroethene	50	5.20	54.5	ug/L	99				71	131	
Acetone	250	1.40	170	ug/L	67				39	160	
Carbon disulfide	50	0	47.5	ug/L	95				64	133	
Methyl tert-butyl Ether	50	0	42.2	ug/L	84				71	124	
Methylene Chloride	50	0	46.8	ug/L	94				74	124	
trans-1,2-Dichloroethene	50	0	47.1	ug/L	94				75	124	
1,1-Dichloroethane	50	0.62	46.2	ug/L	91				77	125	
2-Butanone	250	0	190	ug/L	76				56	143	
Carbon Tetrachloride	50	0.72	51.0	ug/L	101				72	136	
cis-1,2-Dichloroethene	50	1.20	47.1	ug/L	92				78	123	
Chloroform	50	0.45	44.1	ug/L	87				79	124	
1,1,1-Trichloroethane	50	0	46.3	ug/L	93				74	131	
Methylcyclohexane	50	0	53.1	ug/L	106				72	132	
Benzene	50	0	52.0	ug/L	104				79	120	
1,2-Dichloroethane	50	0	48.6	ug/L	97				73	128	
Trichloroethene	50	130	200	ug/L	140	*			79	123	
1,2-Dichloropropane	50	0	50.0	ug/L	100				78	122	
Bromodichloromethane	50	0	52.3	ug/L	105				79	125	
4-Methyl-2-Pentanone	250	0	210	ug/L	84				67	130	
Toluene	50	0	51.9	ug/L	104				80	121	
t-1,3-Dichloropropene	50	0	47.3	ug/L	95				73	127	
cis-1,3-Dichloropropene	50	0	51.7	ug/L	103				75	124	
1,1,2-Trichloroethane	50	0.37	51.8	ug/L	103				80	119	
2-Hexanone	250	0	210	ug/L	84				57	139	
Dibromochloromethane	50	0	49.5	ug/L	99				74	126	
Tetrachloroethene	50	0	53.3	ug/L	107				74	129	
Chlorobenzene	50	0	51.2	ug/L	102				82	118	
Ethyl Benzene	50	0	51.9	ug/L	104				79	121	
m/p-Xylenes	100	0	110	ug/L	110				80	121	
o-Xylene	50	0	51.5	ug/L	103				78	122	
Styrene	50	0	53.2	ug/L	106				78	123	
Bromoform	50	0	49.4	ug/L	99				66	130	
Isopropylbenzene	50	0	51.4	ug/L	103				72	131	
1,1,2,2-Tetrachloroethane	50	0	46.4	ug/L	93				71	121	
1,3-Dichlorobenzene	50	0	52.6	ug/L	105				80	119	
1,4-Dichlorobenzene	50	0	51.6	ug/L	103				79	118	
1,2-Dichlorobenzene	50	0	51.8	ug/L	104				80	119	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

										Limits	
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD		RPD	
		Result			Qual	Qual		Low	High		
Lab Sample ID :	P5374-06MSD	Client Sample ID :	BP-VPB-190A-GW-748-750MSD					Datafile :	VX044483.D		
Chloromethane	50	0	45.6	ug/L	91		5		50	139	20
Vinyl chloride	50	0	44.1	ug/L	88		4		58	137	20
Bromomethane	50	0	44.2	ug/L	88		3		53	141	20
Chloroethane	50	0	44.7	ug/L	89		8		60	138	20
Trichlorofluoromethane	50	0	36.7	ug/L	73		0		65	141	20
1,1,2-Trichlorotrifluoroethane	50	12.3	60.5	ug/L	96		1		70	136	20
1,1-Dichloroethene	50	5.20	54.9	ug/L	99		0		71	131	20
Acetone	250	1.40	170	ug/L	67		0		39	160	20
Carbon disulfide	50	0	50.5	ug/L	101		6		64	133	20
Methyl tert-butyl Ether	50	0	43.3	ug/L	87		3		71	124	20
Methylene Chloride	50	0	47.4	ug/L	95		1		74	124	20
trans-1,2-Dichloroethene	50	0	47.9	ug/L	96		2		75	124	20
1,1-Dichloroethane	50	0.62	46.9	ug/L	93		2		77	125	20
2-Butanone	250	0	190	ug/L	76		0		56	143	20
Carbon Tetrachloride	50	0.72	53.1	ug/L	105		4		72	136	20
cis-1,2-Dichloroethene	50	1.20	47.6	ug/L	93		1		78	123	20
Chloroform	50	0.45	45.1	ug/L	89		2		79	124	20
1,1,1-Trichloroethane	50	0	47.3	ug/L	95		2		74	131	20
Methylcyclohexane	50	0	51.7	ug/L	103		3		72	132	20
Benzene	50	0	51.5	ug/L	103		1		79	120	20
1,2-Dichloroethane	50	0	48.4	ug/L	97		0		73	128	20
Trichloroethene	50	130	210	ug/L	160	*	13		79	123	20
1,2-Dichloropropane	50	0	50.9	ug/L	102		2		78	122	20
Bromodichloromethane	50	0	53.4	ug/L	107		2		79	125	20
4-Methyl-2-Pentanone	250	0	210	ug/L	84		0		67	130	20
Toluene	50	0	51.6	ug/L	103		1		80	121	20
t-1,3-Dichloropropene	50	0	49.1	ug/L	98		4		73	127	20
cis-1,3-Dichloropropene	50	0	53.3	ug/L	107		3		75	124	20
1,1,2-Trichloroethane	50	0.37	52.1	ug/L	103		0		80	119	20
2-Hexanone	250	0	210	ug/L	84		0		57	139	20
Dibromochloromethane	50	0	50.6	ug/L	101		2		74	126	20
Tetrachloroethene	50	0	54.1	ug/L	108		1		74	129	20
Chlorobenzene	50	0	51.3	ug/L	103		0		82	118	20
Ethyl Benzene	50	0	51.0	ug/L	102		2		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		0		80	121	20
o-Xylene	50	0	52.0	ug/L	104		1		78	122	20
Styrene	50	0	51.6	ug/L	103		3		78	123	20
Bromoform	50	0	52.3	ug/L	105		6		66	130	20
Isopropylbenzene	50	0	50.2	ug/L	100		2		72	131	20
1,1,2,2-Tetrachloroethane	50	0	46.1	ug/L	92		1		71	121	20
1,3-Dichlorobenzene	50	0	52.1	ug/L	104		1		80	119	20
1,4-Dichlorobenzene	50	0	50.2	ug/L	100		3		79	118	20
1,2-Dichlorobenzene	50	0	50.3	ug/L	101		3		80	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044484.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1223WBS03	Chloromethane	20	17.1	ug/L	86			50	139	
	Vinyl chloride	20	17.2	ug/L	86			58	137	
	Bromomethane	20	16.6	ug/L	83			53	141	
	Chloroethane	20	17.1	ug/L	86			60	138	
	Trichlorofluoromethane	20	13.8	ug/L	69			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.5	ug/L	88			70	136	
	1,1-Dichloroethene	20	18.2	ug/L	91			71	131	
	Acetone	100	65.8	ug/L	66			39	160	
	Carbon disulfide	20	17.5	ug/L	88			64	133	
	Methyl tert-butyl Ether	20	16.3	ug/L	81			71	124	
	Methylene Chloride	20	18.0	ug/L	90			74	124	
	trans-1,2-Dichloroethene	20	17.1	ug/L	86			75	124	
	1,1-Dichloroethane	20	17.3	ug/L	86			77	125	
	2-Butanone	100	69.6	ug/L	70			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	cis-1,2-Dichloroethene	20	17.8	ug/L	89			78	123	
	Chloroform	20	16.8	ug/L	84			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	18.3	ug/L	92			72	132	
	Benzene	20	19.3	ug/L	97			79	120	
	1,2-Dichloroethane	20	18.6	ug/L	93			73	128	
	Trichloroethene	20	20.8	ug/L	104			79	123	
	1,2-Dichloropropane	20	18.7	ug/L	94			78	122	
	Bromodichloromethane	20	18.5	ug/L	93			79	125	
	4-Methyl-2-Pentanone	100	79.0	ug/L	79			67	130	
	Toluene	20	19.7	ug/L	99			80	121	
	t-1,3-Dichloropropene	20	18.3	ug/L	92			73	127	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			75	124	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			80	119	
	2-Hexanone	100	78.2	ug/L	78			57	139	
	Dibromochloromethane	20	18.3	ug/L	92			74	126	
	Tetrachloroethene	20	21.5	ug/L	108			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	19.6	ug/L	98			79	121	
	m/p-Xylenes	40	40.6	ug/L	102			80	121	
	o-Xylene	20	19.5	ug/L	98			78	122	
	Styrene	20	19.6	ug/L	98			78	123	
	Bromoform	20	19.2	ug/L	96			66	130	
	Isopropylbenzene	20	19.1	ug/L	96			72	131	
	1,1,2,2-Tetrachloroethane	20	18.0	ug/L	90			71	121	
	1,3-Dichlorobenzene	20	20.2	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	19.7	ug/L	99			79	118	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			80	119	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1223WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5374

SAS No.: P5374 SDG NO.: P5374

Lab File ID: VX044468.D

Lab Sample ID: VX1223WBL01

Date Analyzed: 12/23/2024

Time Analyzed: 09:46

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
BP-VPB-190A-GW-718-720	P5374-03	VX044478.D	12/23/2024
BP-VPB-190A-TB-20241218	P5374-01	VX044479.D	12/23/2024
BP-VPB-190A-EB-20241218	P5374-02	VX044480.D	12/23/2024
BP-VPB-190A-GW-748-750	P5374-04	VX044481.D	12/23/2024
BP-VPB-190A-GW-748-750MS	P5374-05MS	VX044482.D	12/23/2024
BP-VPB-190A-GW-748-750MSD	P5374-06MSD	VX044483.D	12/23/2024
VX1223WBS03	VX1223WBS03	VX044484.D	12/23/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG NO.: P5374
Lab File ID: VX044218.D BFB Injection Date: 12/11/2024
Instrument ID: MSVOA_X BFB Injection Time: 10:13
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	21.7
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (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
VSTDIC001	VSTDIC001	VX044219.D	12/11/2024	10:41
VSTDIC005	VSTDIC005	VX044220.D	12/11/2024	11:27
VSTDIC020	VSTDIC020	VX044221.D	12/11/2024	11:50
VSTDIC050	VSTDIC050	VX044222.D	12/11/2024	12:14
VSTDIC100	VSTDIC100	VX044223.D	12/11/2024	12:37
VSTDIC150	VSTDIC150	VX044224.D	12/11/2024	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG NO.: P5374
Lab File ID: VX044465.D BFB Injection Date: 12/23/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:19
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	19.4
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	75.4 (97.2) 1
177	5.0 - 9.0% of mass 176	4.3 (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	VX044466.D	12/23/2024	08:49
VX1223WBL01	VX1223WBL01	VX044468.D	12/23/2024	09:46
BP-VPB-190A-GW-718-720	P5374-03	VX044478.D	12/23/2024	14:29
BP-VPB-190A-TB-20241218	P5374-01	VX044479.D	12/23/2024	14:52
BP-VPB-190A-EB-20241218	P5374-02	VX044480.D	12/23/2024	15:15
BP-VPB-190A-GW-748-750	P5374-04	VX044481.D	12/23/2024	15:38
BP-VPB-190A-GW-748-750MS	P5374-05MS	VX044482.D	12/23/2024	16:00
BP-VPB-190A-GW-748-750MSD	P5374-06MSD	VX044483.D	12/23/2024	16:23
VX1223WBS03	VX1223WBS03	VX044484.D	12/23/2024	16:46
VSTDCCC050EC	VSTDCCC050	VX044492.D	12/23/2024	19:49

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG NO.: P5374
Lab File ID: VX044466.D Date Analyzed: 12/23/2024
Instrument ID: MSVOA_X Time Analyzed: 08:49
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	98270	5.54	155098	6.75	129773	10.05
UPPER LIMIT	196540	6.044	310196	7.251	259546	10.549
LOWER LIMIT	49135	5.044	77549	6.251	64886.5	9.549
EPA SAMPLE NO.						
BP-VPB-190A-TB-20241218	144905	5.54	250665	6.76	212481	10.06
BP-VPB-190A-EB-20241218	136476	5.54	243949	6.76	221103	10.05
BP-VPB-190A-GW-718-720	132615	5.54	236368	6.76	212205	10.05
BP-VPB-190A-GW-748-750	132243	5.54	237676	6.76	212650	10.05
BP-VPB-190A-GW-748-750MS	131546	5.54	214972	6.76	185795	10.05
BP-VPB-190A-GW-748-750MSD	133309	5.55	221334	6.76	194386	10.05
VX1223WBL01	153955	5.54	275095	6.76	235868	10.05
VX1223WBS03	136426	5.54	230675	6.76	197773	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG NO.: P5374
Lab File ID: VX044466.D Date Analyzed: 12/23/2024
Instrument ID: MSVOA_X Time Analyzed: 08:49
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	59280	12.018				
UPPER LIMIT	118560	12.518				
LOWER LIMIT	29640	11.518				
EPA SAMPLE NO.						
BP-VPB-190A-TB-20241218	90686	12.02				
BP-VPB-190A-EB-20241218	90813	12.02				
BP-VPB-190A-GW-718-720	92424	12.02				
BP-VPB-190A-GW-748-750	92633	12.02				
BP-VPB-190A-GW-748-750MS	87327	12.02				
BP-VPB-190A-GW-748-750MSD	93024	12.02				
VX1223WBL01	97837	12.02				
VX1223WBS03	93712	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1223WBL01		SDG No.:	P5374
Lab Sample ID:	VX1223WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1223WBL01		SDG No.:	P5374
Lab Sample ID:	VX1223WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044468.D	1		12/23/24 09:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.8		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.544				
540-36-3	1,4-Difluorobenzene	275000	6.757				
3114-55-4	Chlorobenzene-d5	236000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	97800	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1223WBS03		SDG No.:	P5374
Lab Sample ID:	VX1223WBS03		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044484.D	1		12/23/24 16:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	17.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	16.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.1		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	13.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.26	0.75	1.00	ug/L
67-64-1	Acetone	65.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.3		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.1		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.3		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	69.6		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.8		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	16.8		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.5		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	79.0		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.7		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	78.2		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1223WBS03		SDG No.:	P5374
Lab Sample ID:	VX1223WBS03		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044484.D	1		12/23/24 16:46	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.1		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.7		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.4		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	136000	5.544				
540-36-3	1,4-Difluorobenzene	231000	6.757				
3114-55-4	Chlorobenzene-d5	198000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	93700	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/19/24	
Project:	CTO WE13			Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750MS			SDG No.:	P5374	
Lab Sample ID:	P5374-05MS			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044482.D	1		12/23/24 16:00	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	48.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	45.7		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	43.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	48.2		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	36.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	59.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	54.5		0.26	0.75	1.00	ug/L
67-64-1	Acetone	170		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	47.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	42.2		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	46.8		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	47.1		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	46.2		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	190		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	51.0		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	47.1		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	44.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	46.3		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	53.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	52.0		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	200	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.0		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	52.3		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	210		0.75	2.50	5.00	ug/L
108-88-3	Toluene	51.9		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	47.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	51.7		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	51.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	210		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/19/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750MS		SDG No.:	P5374	
Lab Sample ID:	P5374-05MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044482.D	1		12/23/24 16:00	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	49.5		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	53.3		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	51.2		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	51.9		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	51.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	53.2		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	49.4		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	51.4		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	46.4		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	51.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	51.8		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	39.3	*	81 - 118		79%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.544				
540-36-3	1,4-Difluorobenzene	215000	6.757				
3114-55-4	Chlorobenzene-d5	186000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	87300	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/19/24	
Project:	CTO WE13			Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750MSD			SDG No.:	P5374	
Lab Sample ID:	P5374-06MSD			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044483.D	1		12/23/24 16:23	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	45.6		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	44.1		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	44.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	44.7		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	36.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	60.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	54.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	170		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	50.5		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	43.3		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	47.4		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	47.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	46.9		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	190		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.1		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	47.6		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	45.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	47.3		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	51.7		0.19	0.50	1.00	ug/L
71-43-2	Benzene	51.5		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.4		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	210	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.9		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.4		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	210		0.75	2.50	5.00	ug/L
108-88-3	Toluene	51.6		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	49.1		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	52.1		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	210		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/19/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-748-750MSD		SDG No.:	P5374	
Lab Sample ID:	P5374-06MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044483.D	1		12/23/24 16:23	VX122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	50.6		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	54.1		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	51.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	51.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	52.0		0.14	0.50	1.00	ug/L
100-42-5	Styrene	51.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	52.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	50.2		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	46.1		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.2		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.3		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.1	*	81 - 118		80%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	133000	5.55				
540-36-3	1,4-Difluorobenzene	221000	6.757				
3114-55-4	Chlorobenzene-d5	194000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	93000	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5374</u>
Instrument ID:	<u>MSVOA_X</u>	SAS No.:	<u>P5374</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>P5374</u>
GC Column:	<u>DB-624UI</u>	Calibration Date(s):	<u>12/11/2024</u>
ID:	<u>0.18 (mm)</u>	Calibration Time(s):	<u>10:41</u>
			<u>13:00</u>

LAB FILE ID:	RRF001 = VX044219.D	RRF005 = VX044220.D	RRF020 = VX044221.D	RRF050 = VX044222.D	RRF100 = VX044223.D	RRF150 = VX044224.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

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

LAB FILE ID:		RRF001 = VX044219.D		RRF005 = VX044220.D		RRF020 = VX044221.D		
		RRF050 = VX044222.D		RRF100 = VX044223.D		RRF150 = VX044224.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2

* 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.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 08:49

Lab File ID: VX044466.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.739	0.733	0.1	-0.81	20
Vinyl Chloride	0.770	0.718		-6.75	20
Bromomethane	0.546	0.480		-12.09	20
Chloroethane	0.480	0.398		-17.08	20
Trichlorofluoromethane	1.508	1.293		-14.26	20
1,1,2-Trichlorotrifluoroethane	0.610	0.663		8.69	20
1,1-Dichloroethene	0.560	0.569		1.61	20
Acetone	0.357	0.295		-17.37	20
Carbon Disulfide	1.065	0.991		-6.95	20
Methyl tert-butyl Ether	2.187	1.927		-11.89	20
Methylene Chloride	0.671	0.595		-11.33	20
trans-1,2-Dichloroethene	0.596	0.569		-4.53	20
1,1-Dichloroethane	1.172	1.079	0.1	-7.93	20
2-Butanone	0.508	0.426		-16.14	20
Carbon Tetrachloride	0.482	0.532		10.37	20
cis-1,2-Dichloroethene	0.756	0.701		-7.28	20
Chloroform	1.316	1.165		-11.47	20
1,1,1-Trichloroethane	1.093	1.033		-5.49	20
Methylcyclohexane	0.535	0.657		22.8	20
Benzene	1.359	1.479		8.83	20
1,2-Dichloroethane	0.560	0.539		-3.75	20
Trichloroethene	0.339	0.375		10.62	20
1,2-Dichloropropane	0.347	0.363		4.61	20
Bromodichloromethane	0.465	0.505		8.6	20
4-Methyl-2-Pentanone	0.556	0.519		-6.66	20
Toluene	0.853	0.904		5.98	20
t-1,3-Dichloropropene	0.455	0.481		5.71	20
cis-1,3-Dichloropropene	0.507	0.551		8.68	20
1,1,2-Trichloroethane	0.339	0.361		6.49	20
2-Hexanone	0.403	0.376		-6.7	20
Dibromochloromethane	0.326	0.354		8.59	20
Tetrachloroethene	0.332	0.399		20.18	20
Chlorobenzene	1.071	1.145	0.3	6.91	20
Ethyl Benzene	1.851	1.931		4.32	20
m/p-Xylenes	0.679	0.747		10.02	20
o-Xylene	0.687	0.732		6.55	20
Styrene	1.102	1.199		8.8	20
Bromoform	0.219	0.252	0.1	15.07	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 08:49

Lab File ID: VX044466.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.828	4.164		8.78	20
1,1,2,2-Tetrachloroethane	1.329	1.384	0.3	4.14	20
1,3-Dichlorobenzene	1.621	1.739		7.28	20
1,4-Dichlorobenzene	1.667	1.793		7.56	20
1,2-Dichlorobenzene	1.684	1.789		6.24	20
1,2-Dichloroethane-d4	0.877	0.735		-16.19	20
Dibromofluoromethane	0.346	0.372		7.51	20
Toluene-d8	1.168	1.249		6.93	20
4-Bromofluorobenzene	0.408	0.415		1.72	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 19:49

Lab File ID: VX044492.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.739	0.678	0.1	-8.25	50
Vinyl Chloride	0.770	0.689		-10.52	50
Bromomethane	0.546	0.468		-14.29	50
Chloroethane	0.480	0.442		-7.92	50
Trichlorofluoromethane	1.508	1.069		-29.11	50
1,1,2-Trichlorotrifluoroethane	0.610	0.551		-9.67	50
1,1-Dichloroethene	0.560	0.531		-5.18	50
Acetone	0.357	0.251		-29.69	50
Carbon Disulfide	1.065	0.983		-7.7	50
Methyl tert-butyl Ether	2.187	1.845		-15.64	50
Methylene Chloride	0.671	0.623		-7.15	50
trans-1,2-Dichloroethene	0.596	0.544		-8.73	50
1,1-Dichloroethane	1.172	1.059	0.1	-9.64	50
2-Butanone	0.508	0.382		-24.8	50
Carbon Tetrachloride	0.482	0.477		-1.04	50
cis-1,2-Dichloroethene	0.756	0.679		-10.19	50
Chloroform	1.316	1.143		-13.15	50
1,1,1-Trichloroethane	1.093	0.986		-9.79	50
Methylcyclohexane	0.535	0.537		0.37	50
Benzene	1.359	1.392		2.43	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.355		4.72	50
1,2-Dichloropropane	0.347	0.352		1.44	50
Bromodichloromethane	0.465	0.489		5.16	50
4-Methyl-2-Pentanone	0.556	0.477		-14.21	50
Toluene	0.853	0.862		1.05	50
t-1,3-Dichloropropene	0.455	0.469		3.08	50
cis-1,3-Dichloropropene	0.507	0.529		4.34	50
1,1,2-Trichloroethane	0.339	0.347		2.36	50
2-Hexanone	0.403	0.346		-14.14	50
Dibromochloromethane	0.326	0.351		7.67	50
Tetrachloroethene	0.332	0.362		9.04	50
Chlorobenzene	1.071	1.103	0.3	2.99	50
Ethyl Benzene	1.851	1.878		1.46	50
m/p-Xylenes	0.679	0.714		5.16	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.181		7.17	50
Bromoform	0.219	0.245	0.1	11.87	50

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: MSVOA_X Calibration Date/Time: 12/23/2024 19:49

Lab File ID: VX044492.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.828	3.728		-2.61	50
1,1,2,2-Tetrachloroethane	1.329	1.216	0.3	-8.5	50
1,3-Dichlorobenzene	1.621	1.672		3.15	50
1,4-Dichlorobenzene	1.667	1.677		0.6	50
1,2-Dichlorobenzene	1.684	1.667		-1.01	50
1,2-Dichloroethane-d4	0.877	0.643		-26.68	50
Dibromofluoromethane	0.346	0.316		-8.67	50
Toluene-d8	1.168	1.039		-11.05	50
4-Bromofluorobenzene	0.408	0.358		-12.26	50

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