

LAB CHRONICLE

OrderID:	Q1173	OrderDate:	1/23/2025 3:29:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1173-01	BP-VPB-192-TB-2025 0121	Water			01/21/25			01/23/25
			VOCMS Group1	8260-Low			01/27/25	
Q1173-02	BP-VPB-192-GW-60-6 2	Water			01/21/25			01/23/25
			VOCMS Group1	8260-Low			01/27/25	
Q1173-03	BP-VPB-192-GW-100- 102	Water			01/21/25			01/23/25
			VOCMS Group1	8260-Low			01/27/25	
Q1173-04	BP-VPB-192-GW-140- 142	Water			01/22/25			01/23/25
			VOCMS Group1	8260-Low			01/27/25	
Q1173-05	BP-VPB-192-GW-200- 202	Water			01/22/25			01/23/25
			VOCMS Group1	8260-Low			01/27/25	
Q1173-06	VPB192-HYD-202501 22	Water			01/22/25			01/23/25
			VOCMS Group1	8260-Low			01/27/25	

Hit Summary Sheet
SW-846

SDG No.: Q1173
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-192-GW-60-62								
Q1173-02	BP-VPB-192-GW-6 Water	Acetone		12.0		1.40	3.80	5.00	ug/L
		Total Voc :		12.0					
		Total Concentration:		12.0					
Client ID:	BP-VPB-192-GW-100-102								
Q1173-03	BP-VPB-192-GW-1 Water	Acetone		7.60		1.40	3.80	5.00	ug/L
Q1173-03	BP-VPB-192-GW-1 Water	Chloroform		1.10		0.26	0.50	1.00	ug/L
Q1173-03	BP-VPB-192-GW-1 Water	Trichloroethene		0.87	J	0.32	0.75	1.00	ug/L
Q1173-03	BP-VPB-192-GW-1 Water	Bromodichloromethane		0.98	J	0.24	0.50	1.00	ug/L
Q1173-03	BP-VPB-192-GW-1 Water	Dibromochloromethane		1.10		0.18	0.50	1.00	ug/L
		Total Voc :		11.7					
		Total Concentration:		11.7					
Client ID:	BP-VPB-192-GW-140-142								
Q1173-04	BP-VPB-192-GW-1 Water	Acetone		7.40		1.40	3.80	5.00	ug/L
Q1173-04	BP-VPB-192-GW-1 Water	Chloroform		0.70	J	0.26	0.50	1.00	ug/L
Q1173-04	BP-VPB-192-GW-1 Water	Benzene		6.50		0.16	0.50	1.00	ug/L
Q1173-04	BP-VPB-192-GW-1 Water	Toluene		0.96	J	0.18	0.50	1.00	ug/L
		Total Voc :		15.6					
		Total Concentration:		15.6					
Client ID:	BP-VPB-192-GW-200-202								
Q1173-05	BP-VPB-192-GW-2 Water	Acetone		7.10		1.40	3.80	5.00	ug/L
Q1173-05	BP-VPB-192-GW-2 Water	Chloroform		0.68	J	0.26	0.50	1.00	ug/L
Q1173-05	BP-VPB-192-GW-2 Water	Trichloroethene		1.80		0.32	0.75	1.00	ug/L
		Total Voc :		9.58					
		Total Concentration:		9.58					
Client ID:	VPB192-HYD-20250122								
Q1173-06	VPB192-HYD-2025 Water	Acetone		1.60	J	1.40	3.80	5.00	ug/L
Q1173-06	VPB192-HYD-2025 Water	Dibromochloromethane		1.30		0.18	0.50	1.00	ug/L
		Total Voc :		2.90					
		Total Concentration:		2.90					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-TB-20250121		SDG No.:	Q1173	
Lab Sample ID:	Q1173-01		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
VX044717.D	1		01/27/25 12:38	VX012725

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	UQ	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:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-TB-20250121		SDG No.:	Q1173	
Lab Sample ID:	Q1173-01		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
VX044717.D	1		01/27/25 12:38	VX012725

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	46.8		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	55.2		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.544				
540-36-3	1,4-Difluorobenzene	301000	6.757				
3114-55-4	Chlorobenzene-d5	273000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	116000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-TB-20250121		SDG No.:	Q1173	
Lab Sample ID:	Q1173-01		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
VX044717.D	1		01/27/25 12:38	VX012725

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:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-60-62		SDG No.:	Q1173	
Lab Sample ID:	Q1173-02		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
VX044718.D	1		01/27/25 13:01	VX012725

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	UQ	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	12.0		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:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-60-62		SDG No.:	Q1173	
Lab Sample ID:	Q1173-02		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
VX044718.D	1		01/27/25 13:01	VX012725

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	49.0		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	55.7		89 - 112		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	145000	5.544				
540-36-3	1,4-Difluorobenzene	291000	6.757				
3114-55-4	Chlorobenzene-d5	261000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	111000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-60-62		SDG No.:	Q1173	
Lab Sample ID:	Q1173-02		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
VX044718.D	1		01/27/25 13:01	VX012725

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:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-100-102		SDG No.:	Q1173	
Lab Sample ID:	Q1173-03		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
VX044719.D	1		01/27/25 13:24	VX012725

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	UQ	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	7.60		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	1.10		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	0.87	J	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	0.98	J	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:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-100-102		SDG No.:	Q1173	
Lab Sample ID:	Q1173-03		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
VX044719.D	1		01/27/25 13:24	VX012725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.10		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	47.9		81 - 118		96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	55.2		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	5.544				
540-36-3	1,4-Difluorobenzene	304000	6.757				
3114-55-4	Chlorobenzene-d5	268000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	116000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/21/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-100-102		SDG No.:	Q1173	
Lab Sample ID:	Q1173-03		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
VX044719.D	1		01/27/25 13:24	VX012725

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:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-140-142		SDG No.:	Q1173	
Lab Sample ID:	Q1173-04		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
VX044720.D	1		01/27/25 13:47	VX012725

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	UQ	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	7.40		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	0.70	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	6.50		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	0.96	J	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:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-140-142		SDG No.:	Q1173	
Lab Sample ID:	Q1173-04		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
VX044720.D	1		01/27/25 13:47	VX012725

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	48.7		81 - 118		97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	54.9		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.544				
540-36-3	1,4-Difluorobenzene	313000	6.757				
3114-55-4	Chlorobenzene-d5	273000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	115000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-140-142		SDG No.:	Q1173	
Lab Sample ID:	Q1173-04		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
VX044720.D	1		01/27/25 13:47	VX012725

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:	01/22/25	
Project:	CTO WE13			Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-200-202			SDG No.:	Q1173	
Lab Sample ID:	Q1173-05			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
VX044721.D	1		01/27/25 14:09	VX012725

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	UQ	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	7.10		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	0.68	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	1.80		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:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-200-202		SDG No.:	Q1173	
Lab Sample ID:	Q1173-05		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
VX044721.D	1		01/27/25 14:09	VX012725

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	47.8		81 - 118		96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	54.5		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	144000	5.544				
540-36-3	1,4-Difluorobenzene	289000	6.757				
3114-55-4	Chlorobenzene-d5	258000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	113000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	BP-VPB-192-GW-200-202		SDG No.:	Q1173	
Lab Sample ID:	Q1173-05		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
VX044721.D	1		01/27/25 14:09	VX012725

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:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	VPB192-HYD-20250122		SDG No.:	Q1173	
Lab Sample ID:	Q1173-06		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
VX044716.D	1		01/27/25 12:15	VX012725

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	1.60	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	0.75	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:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	VPB192-HYD-20250122		SDG No.:	Q1173	
Lab Sample ID:	Q1173-06		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
VX044716.D	1		01/27/25 12:15	VX012725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.30		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	49.6		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	54.4		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	143000	5.543				
540-36-3	1,4-Difluorobenzene	296000	6.757				
3114-55-4	Chlorobenzene-d5	265000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	114000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/22/25	
Project:	CTO WE13		Date Received:	01/23/25	
Client Sample ID:	VPB192-HYD-20250122		SDG No.:	Q1173	
Lab Sample ID:	Q1173-06		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
VX044716.D	1		01/27/25 12:15	VX012725

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.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1173-01	BP-VPB-192-TB-20250121	1,2-Dichloroethane-d4	50	46.8	94	81	118
		Dibromofluoromethane	50	50.7	101	80	119
		Toluene-d8	50	55.2	110	89	112
		4-Bromofluorobenzene	50	54.2	108	85	114
Q1173-02	BP-VPB-192-GW-60-62	1,2-Dichloroethane-d4	50	49.0	98	81	118
		Dibromofluoromethane	50	51.4	103	80	119
		Toluene-d8	50	55.7	111	89	112
		4-Bromofluorobenzene	50	52.2	104	85	114
Q1173-03	BP-VPB-192-GW-100-102	1,2-Dichloroethane-d4	50	47.9	96	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	55.2	110	89	112
		4-Bromofluorobenzene	50	52.4	105	85	114
Q1173-04	BP-VPB-192-GW-140-142	1,2-Dichloroethane-d4	50	48.7	97	81	118
		Dibromofluoromethane	50	51.2	102	80	119
		Toluene-d8	50	54.9	110	89	112
		4-Bromofluorobenzene	50	50.9	102	85	114
Q1173-05	BP-VPB-192-GW-200-202	1,2-Dichloroethane-d4	50	47.8	96	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	54.5	109	89	112
		4-Bromofluorobenzene	50	53.6	107	85	114
Q1173-06	VPB192-HYD-20250122	1,2-Dichloroethane-d4	50	49.6	99	81	118
		Dibromofluoromethane	50	49.8	100	80	119
		Toluene-d8	50	54.4	109	89	112
		4-Bromofluorobenzene	50	53.6	107	85	114
VX0127WBL01	VX0127WBL01	1,2-Dichloroethane-d4	50	47.7	95	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	54.6	109	89	112
		4-Bromofluorobenzene	50	56.1	112	85	114
VX0127WBS01	VX0127WBS01	1,2-Dichloroethane-d4	50	41.6	83	81	118
		Dibromofluoromethane	50	45.8	92	80	119
		Toluene-d8	50	48.4	97	89	112
		4-Bromofluorobenzene	50	46.8	94	85	114
VX0127WBSD0	VX0127WBSD01	1,2-Dichloroethane-d4	50	42.1	84	81	118
		Dibromofluoromethane	50	45.1	90	80	119
		Toluene-d8	50	48.1	96	89	112
		4-Bromofluorobenzene	50	46.9	94	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044714.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0127WBS01	Chloromethane	20	19.0	ug/L	95			50	139	
	Vinyl chloride	20	17.3	ug/L	86			58	137	
	Bromomethane	20	18.9	ug/L	95			53	141	
	Chloroethane	20	38.1	ug/L	191		*	60	138	
	Trichlorofluoromethane	20	16.7	ug/L	84			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.4	ug/L	92			70	136	
	1,1-Dichloroethene	20	18.6	ug/L	93			71	131	
	Acetone	100	80.8	ug/L	81			39	160	
	Carbon disulfide	20	18.4	ug/L	92			64	133	
	Methyl tert-butyl Ether	20	17.2	ug/L	86			71	124	
	Methylene Chloride	20	17.5	ug/L	88			74	124	
	trans-1,2-Dichloroethene	20	17.5	ug/L	88			75	124	
	1,1-Dichloroethane	20	18.0	ug/L	90			77	125	
	2-Butanone	100	90.1	ug/L	90			56	143	
	Carbon Tetrachloride	20	16.7	ug/L	84			72	136	
	cis-1,2-Dichloroethene	20	17.4	ug/L	87			78	123	
	Chloroform	20	17.3	ug/L	86			79	124	
	1,1,1-Trichloroethane	20	16.1	ug/L	81			74	131	
	Methylcyclohexane	20	18.3	ug/L	92			72	132	
	Benzene	20	18.5	ug/L	93			79	120	
	1,2-Dichloroethane	20	16.3	ug/L	81			73	128	
	Trichloroethene	20	17.5	ug/L	88			79	123	
	1,2-Dichloropropane	20	18.6	ug/L	93			78	122	
	Bromodichloromethane	20	17.0	ug/L	85			79	125	
	4-Methyl-2-Pentanone	100	95.9	ug/L	96			67	130	
	Toluene	20	18.3	ug/L	92			80	121	
	t-1,3-Dichloropropene	20	17.2	ug/L	86			73	127	
	cis-1,3-Dichloropropene	20	17.5	ug/L	88			75	124	
	1,1,2-Trichloroethane	20	18.3	ug/L	92			80	119	
	2-Hexanone	100	95.6	ug/L	96			57	139	
	Dibromochloromethane	20	17.2	ug/L	86			74	126	
	Tetrachloroethene	20	18.7	ug/L	94			74	129	
	Chlorobenzene	20	18.6	ug/L	93			82	118	
	Ethyl Benzene	20	18.6	ug/L	93			79	121	
	m/p-Xylenes	40	38.0	ug/L	95			80	121	
	o-Xylene	20	18.6	ug/L	93			78	122	
	Styrene	20	19.2	ug/L	96			78	123	
	Bromoform	20	17.7	ug/L	89			66	130	
	Isopropylbenzene	20	17.8	ug/L	89			72	131	
	1,1,2,2-Tetrachloroethane	20	18.0	ug/L	90			71	121	
	1,3-Dichlorobenzene	20	18.4	ug/L	92			80	119	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			79	118	
	1,2-Dichlorobenzene	20	18.1	ug/L	91			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044715.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0127WBSD01	Chloromethane	20	19.1	ug/L	96	1		50	139	20
	Vinyl chloride	20	17.7	ug/L	89	3		58	137	20
	Bromomethane	20	19.9	ug/L	100	5		53	141	20
	Chloroethane	20	41.0	ug/L	205	7	*	60	138	20
	Trichlorofluoromethane	20	17.6	ug/L	88	5		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95	3		70	136	20
	1,1-Dichloroethene	20	19.2	ug/L	96	3		71	131	20
	Acetone	100	87.8	ug/L	88	8		39	160	20
	Carbon disulfide	20	19.3	ug/L	97	5		64	133	20
	Methyl tert-butyl Ether	20	18.0	ug/L	90	5		71	124	20
	Methylene Chloride	20	18.2	ug/L	91	3		74	124	20
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	4		75	124	20
	1,1-Dichloroethane	20	18.6	ug/L	93	3		77	125	20
	2-Butanone	100	98.0	ug/L	98	9		56	143	20
	Carbon Tetrachloride	20	17.2	ug/L	86	2		72	136	20
	cis-1,2-Dichloroethene	20	18.0	ug/L	90	3		78	123	20
	Chloroform	20	18.0	ug/L	90	5		79	124	20
	1,1,1-Trichloroethane	20	16.7	ug/L	84	4		74	131	20
	Methylcyclohexane	20	19.4	ug/L	97	5		72	132	20
	Benzene	20	19.2	ug/L	96	3		79	120	20
	1,2-Dichloroethane	20	17.4	ug/L	87	7		73	128	20
	Trichloroethene	20	18.5	ug/L	93	6		79	123	20
	1,2-Dichloropropane	20	19.1	ug/L	96	3		78	122	20
	Bromodichloromethane	20	17.4	ug/L	87	2		79	125	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	4		67	130	20
	Toluene	20	19.2	ug/L	96	4		80	121	20
	t-1,3-Dichloropropene	20	18.0	ug/L	90	5		73	127	20
	cis-1,3-Dichloropropene	20	18.4	ug/L	92	4		75	124	20
	1,1,2-Trichloroethane	20	18.9	ug/L	95	3		80	119	20
	2-Hexanone	100	99.7	ug/L	100	4		57	139	20
	Dibromochloromethane	20	18.2	ug/L	91	6		74	126	20
	Tetrachloroethene	20	18.7	ug/L	94	0		74	129	20
	Chlorobenzene	20	18.7	ug/L	94	1		82	118	20
	Ethyl Benzene	20	18.8	ug/L	94	1		79	121	20
	m/p-Xylenes	40	38.1	ug/L	95	0		80	121	20
	o-Xylene	20	18.9	ug/L	95	2		78	122	20
	Styrene	20	19.6	ug/L	98	2		78	123	20
	Bromoform	20	17.8	ug/L	89	0		66	130	20
	Isopropylbenzene	20	18.4	ug/L	92	3		72	131	20
	1,1,2,2-Tetrachloroethane	20	18.3	ug/L	92	2		71	121	20
	1,3-Dichlorobenzene	20	18.8	ug/L	94	2		80	119	20
	1,4-Dichlorobenzene	20	18.7	ug/L	94	3		79	118	20
	1,2-Dichlorobenzene	20	18.6	ug/L	93	2		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0127WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1173

SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044713.D

Lab Sample ID: VX0127WBL01

Date Analyzed: 01/27/2025

Time Analyzed: 11:01

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
VX0127WBS01	VX0127WBS01	VX044714.D	01/27/2025
VX0127WBSD01	VX0127WBSD01	VX044715.D	01/27/2025
VPB192-HYD-20250122	Q1173-06	VX044716.D	01/27/2025
BP-VPB-192-TB-20250121	Q1173-01	VX044717.D	01/27/2025
BP-VPB-192-GW-60-62	Q1173-02	VX044718.D	01/27/2025
BP-VPB-192-GW-100-102	Q1173-03	VX044719.D	01/27/2025
BP-VPB-192-GW-140-142	Q1173-04	VX044720.D	01/27/2025
BP-VPB-192-GW-200-202	Q1173-05	VX044721.D	01/27/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
Lab File ID: VX044647.D BFB Injection Date: 01/15/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:30
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	18.6
75	30.0 - 60.0% of mass 95	50.2
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	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	4.9 (7.3) 1
176	95.0 - 101.0% of mass 174	64.4 (96) 1
177	5.0 - 9.0% of mass 176	4.3 (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	VX044648.D	01/15/2025	10:31
VSTDIC005	VSTDIC005	VX044649.D	01/15/2025	11:17
VSTDIC020	VSTDIC020	VX044650.D	01/15/2025	11:40
VSTDIC050	VSTDIC050	VX044651.D	01/15/2025	12:02
VSTDIC100	VSTDIC100	VX044652.D	01/15/2025	13:14
VSTDIC150	VSTDIC150	VX044653.D	01/15/2025	13:37

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
Lab File ID: VX044710.D BFB Injection Date: 01/27/2025
Instrument ID: MSVOA_X BFB Injection Time: 08:47
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	19.2
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	6.6
173	Less than 2.0% of mass 174	0.4 (0.7) 1
174	50.0 - 100.0% of mass 95	65.4
175	5.0 - 9.0% of mass 174	4.9 (7.4) 1
176	95.0 - 101.0% of mass 174	63 (96.3) 1
177	5.0 - 9.0% of mass 176	4.5 (7.1) 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	VX044711.D	01/27/2025	10:08
VX0127WBL01	VX0127WBL01	VX044713.D	01/27/2025	11:01
VX0127WBS01	VX0127WBS01	VX044714.D	01/27/2025	11:24
VX0127WBSD01	VX0127WBSD01	VX044715.D	01/27/2025	11:52
VPB192-HYD-20250122	Q1173-06	VX044716.D	01/27/2025	12:15
BP-VPB-192-TB-20250121	Q1173-01	VX044717.D	01/27/2025	12:38
BP-VPB-192-GW-60-62	Q1173-02	VX044718.D	01/27/2025	13:01
BP-VPB-192-GW-100-102	Q1173-03	VX044719.D	01/27/2025	13:24
BP-VPB-192-GW-140-142	Q1173-04	VX044720.D	01/27/2025	13:47
BP-VPB-192-GW-200-202	Q1173-05	VX044721.D	01/27/2025	14:09
VSTDCCC050EC	VSTDCCC050	VX044734.D	01/27/2025	19:09

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
Lab File ID: VX044711.D Date Analyzed: 01/27/2025
Instrument ID: MSVOA_X Time Analyzed: 10:08
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	172369	5.54	318376	6.75	277935	10.05
UPPER LIMIT	344738	6.037	636752	7.251	555870	10.549
LOWER LIMIT	86184.5	5.037	159188	6.251	138968	9.549
EPA SAMPLE NO.						
BP-VPB-192-TB-20250121	154291	5.54	301435	6.76	272981	10.05
BP-VPB-192-GW-60-62	145080	5.54	291470	6.76	260564	10.05
BP-VPB-192-GW-100-102	156971	5.54	304234	6.76	268221	10.05
BP-VPB-192-GW-140-142	153813	5.54	313071	6.76	272691	10.05
BP-VPB-192-GW-200-202	143949	5.54	289107	6.76	257515	10.05
VPB192-HYD-20250122	142665	5.54	295520	6.76	265204	10.05
VX0127WBL01	158308	5.54	315173	6.76	280517	10.05
VX0127WBS01	194501	5.54	349402	6.76	294902	10.05
VX0127WBSD01	181106	5.54	329948	6.75	287428	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.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
Lab File ID: VX044711.D Date Analyzed: 01/27/2025
Instrument ID: MSVOA_X Time Analyzed: 10:08
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	123095	12.018				
UPPER LIMIT	246190	12.518				
LOWER LIMIT	61547.5	11.518				
EPA SAMPLE NO.						
BP-VPB-192-TB-20250121	115657	12.02				
BP-VPB-192-GW-60-62	111378	12.02				
BP-VPB-192-GW-100-102	115943	12.02				
BP-VPB-192-GW-140-142	114579	12.02				
BP-VPB-192-GW-200-202	112964	12.02				
VPB192-HYD-20250122	114051	12.02				
VX0127WBL01	124517	12.02				
VX0127WBS01	132232	12.02				
VX0127WBSD01	125692	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:	VX0127WBL01		SDG No.:	Q1173
Lab Sample ID:	VX0127WBL01		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
VX044713.D	1		01/27/25 11:01	VX012725

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:	VX0127WBL01		SDG No.:	Q1173
Lab Sample ID:	VX0127WBL01		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
VX044713.D	1		01/27/25 11:01	VX012725

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	47.7		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	54.6		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	158000	5.544				
540-36-3	1,4-Difluorobenzene	315000	6.757				
3114-55-4	Chlorobenzene-d5	281000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	125000	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:	VX0127WBS01		SDG No.:	Q1173
Lab Sample ID:	VX0127WBS01		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
VX044714.D	1		01/27/25 11:24	VX012725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.0		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.3		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	38.1		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	80.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.2		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	17.5		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.0		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	90.1		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	16.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.4		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	17.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.1		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	18.5		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	16.3		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.6		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	17.0		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.9		0.75	2.50	5.00	ug/L
108-88-3	Toluene	18.3		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.2		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.5		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	95.6		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:	VX0127WBS01		SDG No.:	Q1173
Lab Sample ID:	VX0127WBS01		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
VX044714.D	1		01/27/25 11:24	VX012725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	17.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	18.6		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.2		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	17.7		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	17.8		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	18.4		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.1		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.6		81 - 118		83%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	48.4		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	195000	5.543				
540-36-3	1,4-Difluorobenzene	349000	6.757				
3114-55-4	Chlorobenzene-d5	295000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	132000	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:	VX0127WBSD01		SDG No.:	Q1173
Lab Sample ID:	VX0127WBSD01		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
VX044715.D	1		01/27/25 11:52	VX012725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.7		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	19.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	41.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.6		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.26	0.75	1.00	ug/L
67-64-1	Acetone	87.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	19.3		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.2		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	98.0		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.0		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.7		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.4		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	17.4		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.2		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.4		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	99.7		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:	VX0127WBSD01		SDG No.:	Q1173
Lab Sample ID:	VX0127WBSD01		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
VX044715.D	1		01/27/25 11:52	VX012725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.7		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.1		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	18.9		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	17.8		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.4		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.3		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.8		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.6		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.1		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	45.1		80 - 119		90%	SPK: 50
2037-26-5	Toluene-d8	48.1		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	5.543				
540-36-3	1,4-Difluorobenzene	330000	6.75				
3114-55-4	Chlorobenzene-d5	287000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	126000	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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:31 13:37

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

LAB FILE ID:								
RRF001 = VX044648.D			RRF005 = VX044649.D			RRF020 = VX044650.D		
RRF050 = VX044651.D			RRF100 = VX044652.D			RRF150 = VX044653.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	0.826	0.712	0.723	0.710	0.682	0.713	0.728	6.9
Vinyl Chloride	0.801	0.681	0.681	0.702	0.699	0.749	0.719	6.6
Bromomethane		0.170	0.166	0.171	0.169	0.183	0.172	3.7
Chloroethane	0.165	0.123	0.113	0.117	0.124	0.149	0.132	15.7
Trichlorofluoromethane	0.859	0.749	0.755	0.765	0.808	0.830	0.795	5.7
1,1,2-Trichlorotrifluoroethane	0.678	0.563	0.562	0.554	0.598	0.629	0.597	8.1
1,1-Dichloroethene	0.638	0.546	0.572	0.566	0.571	0.618	0.585	6
Acetone	0.369	0.277	0.274	0.267	0.309	0.295	0.299	12.7
Carbon Disulfide	1.690	1.556	1.571	1.544	1.552	1.673	1.598	4.1
Methyl tert-butyl Ether	2.328	2.120	2.091	2.032	1.998	2.155	2.121	5.5
Methylene Chloride	0.828	0.699	0.682	0.650	0.633	0.679	0.695	10
trans-1,2-Dichloroethene	0.738	0.607	0.590	0.568	0.559	0.605	0.611	10.7
1,1-Dichloroethane	1.251	1.164	1.161	1.126	1.111	1.238	1.175	4.9
2-Butanone	0.451	0.444	0.444	0.426	0.449	0.450	0.444	2.1
Carbon Tetrachloride	0.585	0.503	0.468	0.460	0.465	0.502	0.497	9.4
cis-1,2-Dichloroethene	0.940	0.735	0.746	0.717	0.704	0.771	0.769	11.3
Chloroform	1.261	1.226	1.185	1.142	1.095	1.206	1.186	5
1,1,1-Trichloroethane	1.393	1.036	1.037	0.997	0.991	1.087	1.090	14
Methylcyclohexane	0.662	0.555	0.556	0.551	0.583	0.614	0.587	7.5
Benzene	1.517	1.376	1.364	1.306	1.274	1.384	1.370	6.1
1,2-Dichloroethane	0.552	0.494	0.491	0.477	0.473	0.513	0.500	5.8
Trichloroethene	0.338	0.319	0.324	0.316	0.324	0.355	0.329	4.5
1,2-Dichloropropane	0.367	0.359	0.335	0.329	0.326	0.354	0.345	5
Bromodichloromethane	0.634	0.530	0.518	0.508	0.499	0.542	0.538	9.1
4-Methyl-2-Pentanone	0.549	0.489	0.481	0.449	0.445	0.458	0.479	8.1
Toluene	0.941	0.864	0.849	0.805	0.769	0.804	0.839	7.3
t-1,3-Dichloropropene	0.578	0.551	0.564	0.546	0.537	0.563	0.556	2.7
cis-1,3-Dichloropropene	0.684	0.589	0.603	0.574	0.567	0.603	0.603	7
1,1,2-Trichloroethane	0.401	0.342	0.341	0.319	0.312	0.321	0.339	9.6
2-Hexanone	0.397	0.358	0.357	0.330	0.331	0.341	0.352	7.2

* 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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:31 13:37

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

LAB FILE ID:		RRF001 = VX044648.D		RRF005 = VX044649.D		RRF020 = VX044650.D		
		RRF050 = VX044651.D		RRF100 = VX044652.D		RRF150 = VX044653.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dibromochloromethane	0.449	0.407	0.399	0.381	0.369	0.386	0.398	7.1
Tetrachloroethene	0.346	0.309	0.299	0.296	0.308	0.326	0.314	5.9
Chlorobenzene	1.178	1.085	1.036	1.008	0.998	1.067	1.062	6.2
Ethyl Benzene	2.026	1.839	1.827	1.779	1.777	1.871	1.853	5
m/p-Xylenes	0.771	0.697	0.686	0.656	0.646	0.669	0.688	6.5
o-Xylene	0.787	0.713	0.690	0.665	0.644	0.674	0.695	7.3
Styrene	1.172	1.146	1.133	1.089	1.069	1.128	1.123	3.4
Bromoform	0.333	0.315	0.302	0.302	0.304	0.331	0.314	4.6
Isopropylbenzene	4.514	4.259	4.043	3.917	3.790	3.985	4.085	6.4
1,1,2,2-Tetrachloroethane	1.618	1.510	1.398	1.302	1.267	1.370	1.411	9.4
1,3-Dichlorobenzene	1.733	1.641	1.619	1.613	1.608	1.720	1.656	3.4
1,4-Dichlorobenzene	1.911	1.664	1.606	1.577	1.579	1.705	1.674	7.6
1,2-Dichlorobenzene	1.919	1.756	1.665	1.626	1.548	1.687	1.700	7.5
1,2-Dichloroethane-d4		0.863	0.691	0.745	0.689	0.785	0.755	9.6
Dibromofluoromethane		0.355	0.289	0.318	0.293	0.333	0.318	8.8
Toluene-d8		1.270	1.051	1.111	1.001	1.104	1.108	9.1
4-Bromofluorobenzene		0.445	0.394	0.421	0.383	0.421	0.413	6

* 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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 10:08

Lab File ID: VX044711.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.728	0.776	0.1	6.59	20
Vinyl Chloride	0.719	0.750		4.31	20
Bromomethane	0.172	0.181		5.23	20
Chloroethane	0.132	0.178		34.85	20
Trichlorofluoromethane	0.795	0.780		-1.89	20
1,1,2-Trichlorotrifluoroethane	0.597	0.612		2.51	20
1,1-Dichloroethene	0.585	0.612		4.61	20
Acetone	0.299	0.288		-3.68	20
Carbon Disulfide	1.598	1.689		5.76	20
Methyl tert-butyl Ether	2.121	2.198		3.63	20
Methylene Chloride	0.695	0.734		5.61	20
trans-1,2-Dichloroethene	0.611	0.618		1.15	20
1,1-Dichloroethane	1.175	1.237	0.1	5.28	20
2-Butanone	0.444	0.470		5.86	20
Carbon Tetrachloride	0.497	0.453		-8.85	20
cis-1,2-Dichloroethene	0.769	0.785		2.08	20
Chloroform	1.186	1.204		1.52	20
1,1,1-Trichloroethane	1.090	0.992		-8.99	20
Methylcyclohexane	0.587	0.601		2.38	20
Benzene	1.370	1.421		3.72	20
1,2-Dichloroethane	0.500	0.487		-2.6	20
Trichloroethene	0.329	0.332		0.91	20
1,2-Dichloropropane	0.345	0.367		6.38	20
Bromodichloromethane	0.538	0.535		-0.56	20
4-Methyl-2-Pentanone	0.479	0.506		5.64	20
Toluene	0.839	0.864		2.98	20
t-1,3-Dichloropropene	0.556	0.582		4.68	20
cis-1,3-Dichloropropene	0.603	0.618		2.49	20
1,1,2-Trichloroethane	0.339	0.351		3.54	20
2-Hexanone	0.352	0.364		3.41	20
Dibromochloromethane	0.398	0.411		3.27	20
Tetrachloroethene	0.314	0.305		-2.87	20
Chlorobenzene	1.062	1.085	0.3	2.17	20
Ethyl Benzene	1.853	1.874		1.13	20
m/p-Xylenes	0.688	0.702		2.04	20
o-Xylene	0.695	0.695		0	20
Styrene	1.123	1.192		6.14	20
Bromoform	0.314	0.313	0.1	-0.32	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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 10:08

Lab File ID: VX044711.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.085	3.903		-4.45	20
1,1,2,2-Tetrachloroethane	1.411	1.377	0.3	-2.41	20
1,3-Dichlorobenzene	1.656	1.722		3.99	20
1,4-Dichlorobenzene	1.674	1.716		2.51	20
1,2-Dichlorobenzene	1.700	1.665		-2.06	20
1,2-Dichloroethane-d4	0.755	0.714		-5.43	20
Dibromofluoromethane	0.318	0.317		-0.31	20
Toluene-d8	1.108	1.118		0.9	20
4-Bromofluorobenzene	0.413	0.422		2.18	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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 19:09

Lab File ID: VX044734.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.728	0.744	0.1	2.2	50
Vinyl Chloride	0.719	0.766		6.54	50
Bromomethane	0.172	0.186		8.14	50
Chloroethane	0.132	0.181		37.12	50
Trichlorofluoromethane	0.795	0.925		16.35	50
1,1,2-Trichlorotrifluoroethane	0.597	0.628		5.19	50
1,1-Dichloroethene	0.585	0.647		10.6	50
Acetone	0.299	0.300		0.33	50
Carbon Disulfide	1.598	1.710		7.08	50
Methyl tert-butyl Ether	2.121	2.147		1.23	50
Methylene Chloride	0.695	0.714		2.73	50
trans-1,2-Dichloroethene	0.611	0.636		4.09	50
1,1-Dichloroethane	1.175	1.255	0.1	6.81	50
2-Butanone	0.444	0.489		10.14	50
Carbon Tetrachloride	0.497	0.462		-7.04	50
cis-1,2-Dichloroethene	0.769	0.784		1.95	50
Chloroform	1.186	1.201		1.26	50
1,1,1-Trichloroethane	1.090	1.028		-5.69	50
Methylcyclohexane	0.587	0.588		0.17	50
Benzene	1.370	1.426		4.09	50
1,2-Dichloroethane	0.500	0.460		-8	50
Trichloroethene	0.329	0.329		0	50
1,2-Dichloropropane	0.345	0.360		4.35	50
Bromodichloromethane	0.538	0.505		-6.13	50
4-Methyl-2-Pentanone	0.479	0.494		3.13	50
Toluene	0.839	0.847		0.95	50
t-1,3-Dichloropropene	0.556	0.518		-6.84	50
cis-1,3-Dichloropropene	0.603	0.575		-4.64	50
1,1,2-Trichloroethane	0.339	0.332		-2.07	50
2-Hexanone	0.352	0.362		2.84	50
Dibromochloromethane	0.398	0.369		-7.29	50
Tetrachloroethene	0.314	0.307		-2.23	50
Chlorobenzene	1.062	1.060	0.3	-0.19	50
Ethyl Benzene	1.853	1.887		1.84	50
m/p-Xylenes	0.688	0.698		1.45	50
o-Xylene	0.695	0.694		-0.14	50
Styrene	1.123	1.138		1.34	50
Bromoform	0.314	0.292	0.1	-7.01	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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 19:09

Lab File ID: VX044734.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.085	4.084		-0.02	50
1,1,2,2-Tetrachloroethane	1.411	1.419	0.3	0.57	50
1,3-Dichlorobenzene	1.656	1.674		1.09	50
1,4-Dichlorobenzene	1.674	1.631		-2.57	50
1,2-Dichlorobenzene	1.700	1.674		-1.53	50
1,2-Dichloroethane-d4	0.755	0.712		-5.7	50
Dibromofluoromethane	0.318	0.320		0.63	50
Toluene-d8	1.108	1.148		3.61	50
4-Bromofluorobenzene	0.413	0.386		-6.54	50

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