

LAB CHRONICLE

OrderID:	P5316	OrderDate:	12/17/2024 3:44:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5316-01	TT-304-IDWSO-20241 217-1	SOIL	VOCMS Group4	8260D	12/17/24		12/26/24	12/17/24
P5316-02	TT-304-IDWSO-20241 217-2	SOIL	VOCMS Group4	8260D	12/17/24		12/26/24	12/17/24
P5316-03	TT-304-IDWSO-20241 217-3	SOIL	VOCMS Group4	8260D	12/17/24		12/26/24	12/17/24
P5316-04	TT-304-IDWSO-20241 217-4	SOIL	VOCMS Group4	8260D	12/17/24		12/20/24	12/17/24
P5316-04RE	TT-304-IDWSO-20241 217-4RE	SOIL	VOCMS Group4	8260D	12/17/24		12/20/24	12/17/24

Hit Summary Sheet
SW-846

SDG No.: P5316
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	TT-304-IDWSO-20241217-2								
P5316-02	TT-304-IDWSO-20 SOIL	Acetone		22.8	J	6.80	21.7	27.1	ug/Kg
P5316-02	TT-304-IDWSO-20 SOIL	Methylene Chloride		14.3		3.70	8.70	10.8	ug/Kg
		Total Voc :		37.1					
		Total Concentration:		37.1					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-1		SDG No.:	P5316	
Lab Sample ID:	P5316-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	68.6	
Sample Wt/Vol:	5.77	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020718.D	1		12/26/24 15:41	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	3.20	U	0.97	3.20	6.30	ug/Kg
75-35-4	1,1-Dichloroethene	3.20	U	0.99	3.20	6.30	ug/Kg
67-64-1	Acetone	25.3	U	7.90	25.3	31.6	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.20	U	0.85	3.20	6.30	ug/Kg
75-09-2	Methylene Chloride	10.1	U	4.30	10.1	12.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.20	U	1.10	3.20	6.30	ug/Kg
75-34-3	1,1-Dichloroethane	3.20	U	0.80	3.20	6.30	ug/Kg
78-93-3	2-Butanone	25.3	U	7.20	25.3	31.6	ug/Kg
56-23-5	Carbon Tetrachloride	3.20	U	1.10	3.20	6.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.20	U	0.77	3.20	6.30	ug/Kg
67-66-3	Chloroform	5.10	U	0.85	5.10	6.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	3.20	U	0.99	3.20	6.30	ug/Kg
71-43-2	Benzene	3.20	U	0.91	3.20	6.30	ug/Kg
107-06-2	1,2-Dichloroethane	3.20	U	0.77	3.20	6.30	ug/Kg
79-01-6	Trichloroethene	3.20	U	0.95	3.20	6.30	ug/Kg
108-88-3	Toluene	3.20	U	0.85	3.20	6.30	ug/Kg
127-18-4	Tetrachloroethene	3.20	U	1.10	3.20	6.30	ug/Kg
108-90-7	Chlorobenzene	3.20	U	0.93	3.20	6.30	ug/Kg
100-41-4	Ethyl Benzene	3.20	U	0.78	3.20	6.30	ug/Kg
1330-20-7	Total Xylenes	9.50	U	2.58	9.50	18.9	ug/Kg
103-65-1	n-propylbenzene	3.20	U	0.81	3.20	6.30	ug/Kg
98-06-6	tert-Butylbenzene	3.20	U	0.85	3.20	6.30	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	3.20	U	1.70	3.20	6.30	ug/Kg
135-98-8	sec-Butylbenzene	3.20	U	0.85	3.20	6.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.20	U	0.93	3.20	6.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.20	U	1.00	3.20	6.30	ug/Kg
104-51-8	n-Butylbenzene	3.20	U	0.80	3.20	6.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.20	U	0.75	3.20	6.30	ug/Kg
123-91-1	1,4-Dioxane	100	U	53.7	100	130	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.5		71 - 136		117%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-1		SDG No.:	P5316	
Lab Sample ID:	P5316-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	68.6	
Sample Wt/Vol:	5.77	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020718.D	1		12/26/24 15:41	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	55.2		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		79 - 119		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	93100	7.713				
540-36-3	1,4-Difluorobenzene	143000	8.622				
3114-55-4	Chlorobenzene-d5	120000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	47800	13.352				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-2		SDG No.:	P5316	
Lab Sample ID:	P5316-02		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	74.4	
Sample Wt/Vol:	6.2	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020720.D	1		12/26/24 16:28	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	2.70	U	0.83	2.70	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	2.70	U	0.85	2.70	5.40	ug/Kg
67-64-1	Acetone	22.8	J	6.80	21.7	27.1	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.70	U	0.73	2.70	5.40	ug/Kg
75-09-2	Methylene Chloride	14.3		3.70	8.70	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.70	U	0.91	2.70	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	2.70	U	0.68	2.70	5.40	ug/Kg
78-93-3	2-Butanone	21.7	U	6.20	21.7	27.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.70	U	0.94	2.70	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.70	U	0.66	2.70	5.40	ug/Kg
67-66-3	Chloroform	4.30	U	0.73	4.30	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.70	U	0.85	2.70	5.40	ug/Kg
71-43-2	Benzene	2.70	U	0.78	2.70	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	2.70	U	0.66	2.70	5.40	ug/Kg
79-01-6	Trichloroethene	2.70	U	0.81	2.70	5.40	ug/Kg
108-88-3	Toluene	2.70	U	0.73	2.70	5.40	ug/Kg
127-18-4	Tetrachloroethene	2.70	U	0.96	2.70	5.40	ug/Kg
108-90-7	Chlorobenzene	2.70	U	0.80	2.70	5.40	ug/Kg
100-41-4	Ethyl Benzene	2.70	U	0.67	2.70	5.40	ug/Kg
1330-20-7	Total Xylenes	8.10	U	2.26	8.10	16.2	ug/Kg
103-65-1	n-propylbenzene	2.70	U	0.69	2.70	5.40	ug/Kg
98-06-6	tert-Butylbenzene	2.70	U	0.73	2.70	5.40	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.70	U	1.50	2.70	5.40	ug/Kg
135-98-8	sec-Butylbenzene	2.70	U	0.73	2.70	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.70	U	0.80	2.70	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.70	U	0.87	2.70	5.40	ug/Kg
104-51-8	n-Butylbenzene	2.70	U	0.68	2.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.70	U	0.64	2.70	5.40	ug/Kg
123-91-1	1,4-Dioxane	86.7	U	46.1	86.7	110	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.7		71 - 136		117%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-2		SDG No.:	P5316	
Lab Sample ID:	P5316-02		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	74.4	
Sample Wt/Vol:	6.2	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020720.D	1		12/26/24 16:28	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	55.8		78 - 119		112%	SPK: 50
2037-26-5	Toluene-d8	52.4		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		79 - 119		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	90600	7.713				
540-36-3	1,4-Difluorobenzene	141000	8.621				
3114-55-4	Chlorobenzene-d5	117000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	47300	13.352				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-3		SDG No.:	P5316	
Lab Sample ID:	P5316-03		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	78.8	
Sample Wt/Vol:	5.91	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020722.D	1		12/26/24 17:15	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	2.70	U	0.83	2.70	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	2.70	U	0.84	2.70	5.40	ug/Kg
67-64-1	Acetone	21.5	U	6.70	21.5	26.8	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.70	U	0.72	2.70	5.40	ug/Kg
75-09-2	Methylene Chloride	8.60	U	3.70	8.60	10.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.70	U	0.90	2.70	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	2.70	U	0.68	2.70	5.40	ug/Kg
78-93-3	2-Butanone	21.5	U	6.10	21.5	26.8	ug/Kg
56-23-5	Carbon Tetrachloride	2.70	U	0.93	2.70	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.70	U	0.65	2.70	5.40	ug/Kg
67-66-3	Chloroform	4.30	U	0.72	4.30	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.70	U	0.84	2.70	5.40	ug/Kg
71-43-2	Benzene	2.70	U	0.77	2.70	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	2.70	U	0.65	2.70	5.40	ug/Kg
79-01-6	Trichloroethene	2.70	U	0.81	2.70	5.40	ug/Kg
108-88-3	Toluene	2.70	U	0.72	2.70	5.40	ug/Kg
127-18-4	Tetrachloroethene	2.70	U	0.96	2.70	5.40	ug/Kg
108-90-7	Chlorobenzene	2.70	U	0.79	2.70	5.40	ug/Kg
100-41-4	Ethyl Benzene	2.70	U	0.67	2.70	5.40	ug/Kg
1330-20-7	Total Xylenes	8.10	U	2.15	8.10	16.1	ug/Kg
103-65-1	n-propylbenzene	2.70	U	0.69	2.70	5.40	ug/Kg
98-06-6	tert-Butylbenzene	2.70	U	0.72	2.70	5.40	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.70	U	1.50	2.70	5.40	ug/Kg
135-98-8	sec-Butylbenzene	2.70	U	0.72	2.70	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.70	U	0.79	2.70	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.70	U	0.86	2.70	5.40	ug/Kg
104-51-8	n-Butylbenzene	2.70	U	0.68	2.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.70	U	0.63	2.70	5.40	ug/Kg
123-91-1	1,4-Dioxane	85.9	U	45.6	85.9	110	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.9		71 - 136		112%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-3		SDG No.:	P5316	
Lab Sample ID:	P5316-03		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	78.8	
Sample Wt/Vol:	5.91	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020722.D	1		12/26/24 17:15	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	54.7		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	95000	7.713				
540-36-3	1,4-Difluorobenzene	149000	8.616				
3114-55-4	Chlorobenzene-d5	128000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	55500	13.353				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-4		SDG No.:	P5316	
Lab Sample ID:	P5316-04		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	72.3	
Sample Wt/Vol:	5.56	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020672.D	1		12/20/24 15:44	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	3.10	U	0.96	3.10	6.20	ug/Kg
75-35-4	1,1-Dichloroethene	3.10	U	0.97	3.10	6.20	ug/Kg
67-64-1	Acetone	24.9	U	7.80	24.9	31.1	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.10	U	0.83	3.10	6.20	ug/Kg
75-09-2	Methylene Chloride	10.0	U	4.20	10.0	12.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.10	U	1.00	3.10	6.20	ug/Kg
75-34-3	1,1-Dichloroethane	3.10	U	0.78	3.10	6.20	ug/Kg
78-93-3	2-Butanone	24.9	U	7.10	24.9	31.1	ug/Kg
56-23-5	Carbon Tetrachloride	3.10	U	1.10	3.10	6.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.10	U	0.76	3.10	6.20	ug/Kg
67-66-3	Chloroform	5.00	U	0.83	5.00	6.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	3.10	U	0.97	3.10	6.20	ug/Kg
71-43-2	Benzene	3.10	U	0.90	3.10	6.20	ug/Kg
107-06-2	1,2-Dichloroethane	3.10	U	0.76	3.10	6.20	ug/Kg
79-01-6	Trichloroethene	3.10	U	0.93	3.10	6.20	ug/Kg
108-88-3	Toluene	3.10	U	0.83	3.10	6.20	ug/Kg
127-18-4	Tetrachloroethene	3.10	U	1.10	3.10	6.20	ug/Kg
108-90-7	Chlorobenzene	3.10	U	0.92	3.10	6.20	ug/Kg
100-41-4	Ethyl Benzene	3.10	U	0.77	3.10	6.20	ug/Kg
1330-20-7	Total Xylenes	9.30	U	2.57	9.30	18.6	ug/Kg
103-65-1	n-propylbenzene	3.10	U	0.80	3.10	6.20	ug/Kg
98-06-6	tert-Butylbenzene	3.10	U	0.83	3.10	6.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	3.10	U	1.70	3.10	6.20	ug/Kg
135-98-8	sec-Butylbenzene	3.10	U	0.83	3.10	6.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.10	U	0.92	3.10	6.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.10	U	1.00	3.10	6.20	ug/Kg
104-51-8	n-Butylbenzene	3.10	U	0.78	3.10	6.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.10	U	0.73	3.10	6.20	ug/Kg
123-91-1	1,4-Dioxane	99.5	U	52.9	99.5	120	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	34.9	*	71 - 136		70%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-4		SDG No.:	P5316	
Lab Sample ID:	P5316-04		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	72.3	
Sample Wt/Vol:	5.56	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020672.D	1		12/20/24 15:44	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	42.9		78 - 119		86%	SPK: 50
2037-26-5	Toluene-d8	45.2		85 - 116		90%	SPK: 50
460-00-4	4-Bromofluorobenzene	21.7	*	79 - 119		43%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	21200	7.713				
540-36-3	1,4-Difluorobenzene	29900	8.616				
3114-55-4	Chlorobenzene-d5	18800	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	4330	13.347				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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:	12/17/24	
Project:	CTO WE13			Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-4RE			SDG No.:	P5316	
Lab Sample ID:	P5316-04RE			Matrix:	SOIL	
Analytical Method:	SW8260			% Solid:	72.3	
Sample Wt/Vol:	5.36	Units:	g	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020675.D	1		12/20/24 16:52	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	3.20	U	0.99	3.20	6.50	ug/Kg
75-35-4	1,1-Dichloroethene	3.20	U	1.00	3.20	6.50	ug/Kg
67-64-1	Acetone	25.8	U	8.10	25.8	32.3	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.20	U	0.86	3.20	6.50	ug/Kg
75-09-2	Methylene Chloride	10.3	U	4.40	10.3	12.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.20	U	1.10	3.20	6.50	ug/Kg
75-34-3	1,1-Dichloroethane	3.20	U	0.81	3.20	6.50	ug/Kg
78-93-3	2-Butanone	25.8	U	7.30	25.8	32.3	ug/Kg
56-23-5	Carbon Tetrachloride	3.20	U	1.10	3.20	6.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.20	U	0.79	3.20	6.50	ug/Kg
67-66-3	Chloroform	5.20	U	0.86	5.20	6.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	3.20	U	1.00	3.20	6.50	ug/Kg
71-43-2	Benzene	3.20	U	0.93	3.20	6.50	ug/Kg
107-06-2	1,2-Dichloroethane	3.20	U	0.79	3.20	6.50	ug/Kg
79-01-6	Trichloroethene	3.20	U	0.97	3.20	6.50	ug/Kg
108-88-3	Toluene	3.20	U	0.86	3.20	6.50	ug/Kg
127-18-4	Tetrachloroethene	3.20	U	1.10	3.20	6.50	ug/Kg
108-90-7	Chlorobenzene	3.20	U	0.95	3.20	6.50	ug/Kg
100-41-4	Ethyl Benzene	3.20	U	0.80	3.20	6.50	ug/Kg
1330-20-7	Total Xylenes	9.70	U	2.60	9.70	19.4	ug/Kg
103-65-1	n-propylbenzene	3.20	U	0.83	3.20	6.50	ug/Kg
98-06-6	tert-Butylbenzene	3.20	U	0.86	3.20	6.50	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	3.20	U	1.80	3.20	6.50	ug/Kg
135-98-8	sec-Butylbenzene	3.20	U	0.86	3.20	6.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.20	U	0.95	3.20	6.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.20	U	1.00	3.20	6.50	ug/Kg
104-51-8	n-Butylbenzene	3.20	U	0.81	3.20	6.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.20	U	0.76	3.20	6.50	ug/Kg
123-91-1	1,4-Dioxane	100	U	54.8	100	130	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.8		71 - 136		102%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/17/24		
Project:	CTO WE13			Date Received:	12/17/24		
Client Sample ID:	TT-304-IDWSO-20241217-4RE			SDG No.:	P5316		
Lab Sample ID:	P5316-04RE			Matrix:	SOIL		
Analytical Method:	SW8260			% Solid:	72.3		
Sample Wt/Vol:	5.36	Units:	g	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group4		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020675.D	1		12/20/24 16:52	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	45.9		78 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	48.7		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.3	*	79 - 119		71%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	164000	7.707				
540-36-3	1,4-Difluorobenzene	291000	8.616				
3114-55-4	Chlorobenzene-d5	242000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	90500	13.346				

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.: **P5316**

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

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5316-01	TT-304-IDWSO-20241217-1	1,2-Dichloroethane-d4	50	58.5	117	71	136
		Dibromofluoromethane	50	55.2	110	78	119
		Toluene-d8	50	52.6	105	85	116
		4-Bromofluorobenzene	50	46.7	93	79	119
P5316-02	TT-304-IDWSO-20241217-2	1,2-Dichloroethane-d4	50	58.7	117	71	136
		Dibromofluoromethane	50	55.8	112	78	119
		Toluene-d8	50	52.4	105	85	116
		4-Bromofluorobenzene	50	48.0	96	79	119
P5316-03	TT-304-IDWSO-20241217-3	1,2-Dichloroethane-d4	50	55.9	112	71	136
		Dibromofluoromethane	50	54.7	109	78	119
		Toluene-d8	50	52.6	105	85	116
		4-Bromofluorobenzene	50	49.2	98	79	119
P5316-04	TT-304-IDWSO-20241217-4	1,2-Dichloroethane-d4	50	34.9	70 *	71	136
		Dibromofluoromethane	50	42.9	86	78	119
		Toluene-d8	50	45.2	90	85	116
		4-Bromofluorobenzene	50	21.7	43 *	79	119
P5316-04RE	TT-304-IDWSO-20241217-4RE	1,2-Dichloroethane-d4	50	50.8	102	71	136
		Dibromofluoromethane	50	45.9	92	78	119
		Toluene-d8	50	48.7	97	85	116
		4-Bromofluorobenzene	50	35.3	71 *	79	119
VY1220SBL01	VY1220SBL01	1,2-Dichloroethane-d4	50	49.0	98	71	136
		Dibromofluoromethane	50	50.7	101	78	119
		Toluene-d8	50	49.8	100	85	116
		4-Bromofluorobenzene	50	44.5	89	79	119
VY1220SBS01	VY1220SBS01	1,2-Dichloroethane-d4	50	43.1	86	71	136
		Dibromofluoromethane	50	46.1	92	78	119
		Toluene-d8	50	46.6	93	85	116
		4-Bromofluorobenzene	50	44.2	88	79	119
VY1226SBL01	VY1226SBL01	1,2-Dichloroethane-d4	50	64.7	129	71	136
		Dibromofluoromethane	50	57.6	115	78	119
		Toluene-d8	50	52.6	105	85	116
		4-Bromofluorobenzene	50	51.0	102	79	119
VY1226SBS01	VY1226SBS01	1,2-Dichloroethane-d4	50	55.0	110	71	136
		Dibromofluoromethane	50	52.1	104	78	119
		Toluene-d8	50	50.6	101	85	116
		4-Bromofluorobenzene	50	51.8	104	79	119
VY1226SBSD01	VY1226SBSD01	1,2-Dichloroethane-d4	50	57.3	115	71	136
		Dibromofluoromethane	50	53.1	106	78	119
		Toluene-d8	50	52.1	104	85	116
		4-Bromofluorobenzene	50	52.9	106	79	119

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5316

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Datafile : VY020666.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1220SBS01	Vinyl chloride	20	15.8	ug/Kg	79			56	135	
	1,1-Dichloroethene	20	16.1	ug/Kg	81			70	131	
	Acetone	100	63.0	ug/Kg	63			36	164	
	Methyl tert-butyl Ether	20	19.9	ug/Kg	100			73	125	
	Methylene Chloride	20	17.7	ug/Kg	89			70	128	
	trans-1,2-Dichloroethene	20	21.5	ug/Kg	108			74	125	
	1,1-Dichloroethane	20	21.4	ug/Kg	107			76	125	
	2-Butanone	100	91.7	ug/Kg	92			51	148	
	Carbon Tetrachloride	20	22.4	ug/Kg	112			70	135	
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104			77	123	
	Chloroform	20	19.1	ug/Kg	96			78	123	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			73	130	
	Benzene	20	22.1	ug/Kg	111			77	121	
	1,2-Dichloroethane	20	21.0	ug/Kg	105			73	128	
	Trichloroethene	20	21.9	ug/Kg	110			77	123	
	Toluene	20	22.1	ug/Kg	111			77	121	
	Tetrachloroethene	20	21.9	ug/Kg	110			73	128	
	Chlorobenzene	20	22.3	ug/Kg	112			79	120	
	Ethyl Benzene	20	22.2	ug/Kg	111			76	122	
	m/p-Xylenes	40	44.7	ug/Kg	112			77	124	
	o-Xylene	20	22.2	ug/Kg	111			77	123	
	N-propylbenzene	20	22.0	ug/Kg	110			73	125	
	tert-Butylbenzene	20	20.9	ug/Kg	104			73	125	
	1,2,4-Trimethylbenzene	20	24.5	ug/Kg	123			75	123	
	Sec-butylbenzene	20	21.8	ug/Kg	109			73	126	
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108			77	121	
	1,4-Dichlorobenzene	20	21.6	ug/Kg	108			75	120	
	n-Butylbenzene	20	22.3	ug/Kg	112			70	128	
	1,2-Dichlorobenzene	20	21.5	ug/Kg	108			78	121	
	1,4-Dioxane	400	370	ug/Kg	93			55	138	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5316

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Datafile : VY020715.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1226SBS01	Vinyl chloride	20	17.7	ug/Kg	89			56	135	
	1,1-Dichloroethene	20	19.1	ug/Kg	96			70	131	
	Acetone	100	94.4	ug/Kg	94			36	164	
	Methyl tert-butyl Ether	20	19.6	ug/Kg	98			73	125	
	Methylene Chloride	20	20.7	ug/Kg	104			70	128	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			74	125	
	1,1-Dichloroethane	20	19.7	ug/Kg	99			76	125	
	2-Butanone	100	110	ug/Kg	110			51	148	
	Carbon Tetrachloride	20	19.7	ug/Kg	99			70	135	
	cis-1,2-Dichloroethene	20	19.3	ug/Kg	97			77	123	
	Chloroform	20	20.1	ug/Kg	101			78	123	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			73	130	
	Benzene	20	20.0	ug/Kg	100			77	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			73	128	
	Trichloroethene	20	19.4	ug/Kg	97			77	123	
	Toluene	20	20.3	ug/Kg	102			77	121	
	Tetrachloroethene	20	20.9	ug/Kg	104			73	128	
	Chlorobenzene	20	19.8	ug/Kg	99			79	120	
	Ethyl Benzene	20	20.2	ug/Kg	101			76	122	
	m/p-Xylenes	40	41.6	ug/Kg	104			77	124	
	o-Xylene	20	20.7	ug/Kg	104			77	123	
	N-propylbenzene	20	20.0	ug/Kg	100			73	125	
	tert-Butylbenzene	20	19.8	ug/Kg	99			73	125	
	1,2,4-Trimethylbenzene	20	20.0	ug/Kg	100			75	123	
	Sec-butylbenzene	20	20.0	ug/Kg	100			73	126	
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99			77	121	
	1,4-Dichlorobenzene	20	19.9	ug/Kg	100			75	120	
	n-Butylbenzene	20	19.9	ug/Kg	100			70	128	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			78	121	
	1,4-Dioxane	400	450	ug/Kg	113			55	138	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5316

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Datafile : VY020716.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1226SBSD01	Vinyl chloride	20	18.1	ug/Kg	91	2		56	135	20
	1,1-Dichloroethene	20	18.9	ug/Kg	95	1		70	131	20
	Acetone	100	99.3	ug/Kg	99	5		36	164	20
	Methyl tert-butyl Ether	20	20.6	ug/Kg	103	5		73	125	20
	Methylene Chloride	20	19.7	ug/Kg	99	5		70	128	20
	trans-1,2-Dichloroethene	20	19.3	ug/Kg	97	2		74	125	20
	1,1-Dichloroethane	20	20.0	ug/Kg	100	1		76	125	20
	2-Butanone	100	110	ug/Kg	110	0		51	148	20
	Carbon Tetrachloride	20	19.0	ug/Kg	95	4		70	135	20
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99	2		77	123	20
	Chloroform	20	19.9	ug/Kg	100	1		78	123	20
	1,1,1-Trichloroethane	20	19.5	ug/Kg	98	1		73	130	20
	Benzene	20	19.4	ug/Kg	97	3		77	121	20
	1,2-Dichloroethane	20	19.5	ug/Kg	98	4		73	128	20
	Trichloroethene	20	19.6	ug/Kg	98	1		77	123	20
	Toluene	20	19.7	ug/Kg	99	3		77	121	20
	Tetrachloroethene	20	19.4	ug/Kg	97	7		73	128	20
	Chlorobenzene	20	20.1	ug/Kg	101	2		79	120	20
	Ethyl Benzene	20	19.7	ug/Kg	99	2		76	122	20
	m/p-Xylenes	40	40.0	ug/Kg	100	4		77	124	20
	o-Xylene	20	19.5	ug/Kg	98	6		77	123	20
	N-propylbenzene	20	19.4	ug/Kg	97	3		73	125	20
	tert-Butylbenzene	20	19.7	ug/Kg	99	0		73	125	20
	1,2,4-Trimethylbenzene	20	19.7	ug/Kg	99	1		75	123	20
	Sec-butylbenzene	20	19.5	ug/Kg	98	2		73	126	20
	1,3-Dichlorobenzene	20	19.8	ug/Kg	99	0		77	121	20
	1,4-Dichlorobenzene	20	19.4	ug/Kg	97	3		75	120	20
	n-Butylbenzene	20	19.5	ug/Kg	98	2		70	128	20
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100	2		78	121	20
	1,4-Dioxane	400	460	ug/Kg	115	2		55	138	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1220SBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5316

SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020665.D

Lab Sample ID: VY1220SBL01

Date Analyzed: 12/20/2024

Time Analyzed: 11:24

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1220SBS01	VY1220SBS01	VY020666.D	12/20/2024
TT-304-IDWSO-20241217-4	P5316-04	VY020672.D	12/20/2024
TT-304-IDWSO-20241217-4RE	P5316-04RE	VY020675.D	12/20/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1226SBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5316

SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020714.D

Lab Sample ID: VY1226SBL01

Date Analyzed: 12/26/2024

Time Analyzed: 13:56

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1226SBS01	VY1226SBS01	VY020715.D	12/26/2024
VY1226SBSD01	VY1226SBSD01	VY020716.D	12/26/2024
TT-304-IDWSO-20241217-1	P5316-01	VY020718.D	12/26/2024
TT-304-IDWSO-20241217-2	P5316-02	VY020720.D	12/26/2024
TT-304-IDWSO-20241217-3	P5316-03	VY020722.D	12/26/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316
Lab File ID: VY020611.D BFB Injection Date: 12/17/2024
Instrument ID: MSVOA_Y BFB Injection Time: 09:00
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.2 (8) 1
176	95.0 - 101.0% of mass 174	74.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 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
VSTDIC010	VSTDIC010	VY020613.D	12/17/2024	10:01
VSTDIC020	VSTDIC020	VY020614.D	12/17/2024	10:23
VSTDIC050	VSTDIC050	VY020615.D	12/17/2024	10:51
VSTDIC100	VSTDIC100	VY020616.D	12/17/2024	11:14
VSTDIC150	VSTDIC150	VY020617.D	12/17/2024	11:37
VSTDIC005	VSTDIC005	VY020619.D	12/17/2024	14:51

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316
Lab File ID: VY020663.D BFB Injection Date: 12/20/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:37
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	85.2
175	5.0 - 9.0% of mass 174	6.8 (8) 1
176	95.0 - 101.0% of mass 174	81.8 (96) 1
177	5.0 - 9.0% of mass 176	5.5 (6.7) 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	VY020664.D	12/20/2024	09:09
VY1220SBL01	VY1220SBL01	VY020665.D	12/20/2024	11:24
VY1220SBS01	VY1220SBS01	VY020666.D	12/20/2024	13:12
TT-304-IDWSO-20241217-4	P5316-04	VY020672.D	12/20/2024	15:44
TT-304-IDWSO-20241217-4RE	P5316-04RE	VY020675.D	12/20/2024	16:52
VSTDCCC050EC	VSTDCCC050	VY020682.D	12/20/2024	19:35

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316
Lab File ID: VY020705.D BFB Injection Date: 12/26/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:29
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	56.5
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	88.9
175	5.0 - 9.0% of mass 174	4.7 (5.3) 1
176	95.0 - 101.0% of mass 174	85.2 (95.8) 1
177	5.0 - 9.0% of mass 176	6 (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
VSTDIC005	VSTDIC005	VY020706.D	12/26/2024	09:31
VSTDIC010	VSTDIC010	VY020707.D	12/26/2024	09:53
VSTDIC020	VSTDIC020	VY020708.D	12/26/2024	10:16
VSTDIC050	VSTDIC050	VY020709.D	12/26/2024	10:39
VSTDIC150	VSTDIC150	VY020710.D	12/26/2024	11:01
VSTDIC100	VSTDIC100	VY020711.D	12/26/2024	11:51
VY1226SBL01	VY1226SBL01	VY020714.D	12/26/2024	13:56
VY1226SBS01	VY1226SBS01	VY020715.D	12/26/2024	14:32
VY1226SBSD01	VY1226SBSD01	VY020716.D	12/26/2024	14:54
TT-304-IDWSO-20241217-1	P5316-01	VY020718.D	12/26/2024	15:41
TT-304-IDWSO-20241217-2	P5316-02	VY020720.D	12/26/2024	16:28
TT-304-IDWSO-20241217-3	P5316-03	VY020722.D	12/26/2024	17:15
VSTDCCC050EC	VSTDCCC050	VY020728.D	12/26/2024	19:34

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316
Lab File ID: VY020664.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:09
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	162547	7.71	240673	8.62	212145	11.42
UPPER LIMIT	325094	8.213	481346	9.116	424290	11.92
LOWER LIMIT	81273.5	7.213	120337	8.116	106073	10.92
EPA SAMPLE NO.						
TT-304-IDWSO-20241217-4	21219 *	7.71	29944 *	8.62	18784 *	11.41
TT-304-IDWSO-20241217-4RE	164449	7.71	291183	8.62	241631	11.41
VY1220SBL01	159056	7.71	246351	8.62	208495	11.41
VY1220SBS01	157442	7.71	237485	8.62	207752	11.42

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.: P5316 SAS No.: P5316 SDG NO.: P5316
 Lab File ID: VY020664.D Date Analyzed: 12/20/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:09
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	119359	13.353				
UPPER LIMIT	238718	13.853				
LOWER LIMIT	59679.5	12.853				
EPA SAMPLE NO.						
TT-304-IDWSO-20241217-4	4327 *	13.35				
TT-304-IDWSO-20241217-4RE	90485	13.35				
VY1220SBL01	109647	13.35				
VY1220SBS01	116933	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316
Lab File ID: VY020709.D Date Analyzed: 12/26/2024
Instrument ID: MSVOA_Y Time Analyzed: 10:39
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	95919	7.72	134605	8.62	116249	11.42
UPPER LIMIT	191838	8.22	269210	9.122	232498	11.92
LOWER LIMIT	47959.5	7.22	67302.5	8.122	58124.5	10.92
EPA SAMPLE NO.						
TT-304-IDWSO-20241217-1	93149	7.71	143334	8.62	120055	11.42
TT-304-IDWSO-20241217-2	90592	7.71	140817	8.62	117470	11.42
TT-304-IDWSO-20241217-3	95048	7.71	149227	8.62	128468	11.42
VY1226SBL01	99549	7.72	157271	8.62	133794	11.42
VY1226SBS01	120044	7.72	165739	8.62	139363	11.42
VY1226SBSD01	115773	7.71	164224	8.62	140702	11.42

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.: P5316 SAS No.: P5316 SDG NO.: P5316
Lab File ID: VY020709.D Date Analyzed: 12/26/2024
Instrument ID: MSVOA_Y Time Analyzed: 10:39
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	60351	13.353				
UPPER LIMIT	120702	13.853				
LOWER LIMIT	30175.5	12.853				
EPA SAMPLE NO.						
TT-304-IDWSO-20241217-1	47762	13.35				
TT-304-IDWSO-20241217-2	47280	13.35				
TT-304-IDWSO-20241217-3	55512	13.35				
VY1226SBL01	56315	13.35				
VY1226SBS01	74040	13.35				
VY1226SBSD01	73666	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1220SBL01		SDG No.:	P5316
Lab Sample ID:	VY1220SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020665.D	1		12/20/24 11:24	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	2.50	U	0.77	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	6.20	20.0	25.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.78	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
108-88-3	Toluene	2.50	U	0.67	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.62	2.50	5.00	ug/Kg
1330-20-7	Total Xylenes	7.50	U	2.10	7.50	15.0	ug/Kg
103-65-1	n-propylbenzene	2.50	U	0.64	2.50	5.00	ug/Kg
98-06-6	tert-Butylbenzene	2.50	U	0.67	2.50	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.50	U	1.40	2.50	5.00	ug/Kg
135-98-8	sec-Butylbenzene	2.50	U	0.67	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	0.80	2.50	5.00	ug/Kg
104-51-8	n-Butylbenzene	2.50	U	0.63	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	0.59	2.50	5.00	ug/Kg
123-91-1	1,4-Dioxane	80.0	U	42.5	80.0	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.1		71 - 136		98%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1220SBL01		SDG No.:	P5316
Lab Sample ID:	VY1220SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020665.D	1		12/20/24 11:24	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	50.7		78 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.8		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		79 - 119		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	159000	7.707				
540-36-3	1,4-Difluorobenzene	246000	8.616				
3114-55-4	Chlorobenzene-d5	208000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.347				
TENTATIVE IDENTIFIED COMPOUNDS							
001066-40-6	Silanol, trimethyl-	8.80	J			6.88	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1226SBL01		SDG No.:	P5316
Lab Sample ID:	VY1226SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020714.D	1		12/26/24 13:56	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	2.50	U	0.77	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	6.20	20.0	25.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.78	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
108-88-3	Toluene	2.50	U	0.67	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.62	2.50	5.00	ug/Kg
1330-20-7	Total Xylenes	7.50	U	2.10	7.50	15.0	ug/Kg
103-65-1	n-propylbenzene	2.50	U	0.64	2.50	5.00	ug/Kg
98-06-6	tert-Butylbenzene	2.50	U	0.67	2.50	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.50	U	1.40	2.50	5.00	ug/Kg
135-98-8	sec-Butylbenzene	2.50	U	0.67	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	0.80	2.50	5.00	ug/Kg
104-51-8	n-Butylbenzene	2.50	U	0.63	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	0.59	2.50	5.00	ug/Kg
123-91-1	1,4-Dioxane	80.0	U	42.5	80.0	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	64.7		71 - 136		129%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1226SBL01		SDG No.:	P5316
Lab Sample ID:	VY1226SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020714.D	1		12/26/24 13:56	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	57.6		78 - 119		115%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		79 - 119		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	99500	7.719				
540-36-3	1,4-Difluorobenzene	157000	8.622				
3114-55-4	Chlorobenzene-d5	134000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	56300	13.352				

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:	VY1220SBS01		SDG No.:	P5316
Lab Sample ID:	VY1220SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020666.D	1		12/20/24 13:12	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	15.8		0.77	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	16.1		0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	63.0		6.20	20.0	25.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.9		0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	17.7		3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.5		0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.4		0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	91.7		5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	22.4		0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	19.1		0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.7		0.78	2.50	5.00	ug/Kg
71-43-2	Benzene	22.1		0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	21.9		0.75	2.50	5.00	ug/Kg
108-88-3	Toluene	22.1		0.67	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.9		0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	22.3		0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.2		0.62	2.50	5.00	ug/Kg
1330-20-7	Total Xylenes	66.9		2.10	7.50	15.0	ug/Kg
103-65-1	n-propylbenzene	22.0		0.64	2.50	5.00	ug/Kg
98-06-6	tert-Butylbenzene	20.9		0.67	2.50	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	24.5		1.40	2.50	5.00	ug/Kg
135-98-8	sec-Butylbenzene	21.8		0.67	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.6		0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.6		0.80	2.50	5.00	ug/Kg
104-51-8	n-Butylbenzene	22.3		0.63	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.5		0.59	2.50	5.00	ug/Kg
123-91-1	1,4-Dioxane	370		42.5	80.0	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.1		71 - 136		86%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1220SBS01		SDG No.:	P5316
Lab Sample ID:	VY1220SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020666.D	1		12/20/24 13:12	VY122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	46.1		78 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	46.6		85 - 116		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		79 - 119		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	7.713				
540-36-3	1,4-Difluorobenzene	237000	8.615				
3114-55-4	Chlorobenzene-d5	208000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.352				

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:	VY1226SBS01		SDG No.:	P5316
Lab Sample ID:	VY1226SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020715.D	1		12/26/24 14:32	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	17.7		0.77	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.1		0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	94.4		6.20	20.0	25.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.6		0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.7		3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.7		0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.7		0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.3		0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	2.50	5.00	ug/Kg
71-43-2	Benzene	20.0		0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	2.50	5.00	ug/Kg
108-88-3	Toluene	20.3		0.67	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.2		0.62	2.50	5.00	ug/Kg
1330-20-7	Total Xylenes	62.3		2.10	7.50	15.0	ug/Kg
103-65-1	n-propylbenzene	20.0		0.64	2.50	5.00	ug/Kg
98-06-6	tert-Butylbenzene	19.8		0.67	2.50	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20.0		1.40	2.50	5.00	ug/Kg
135-98-8	sec-Butylbenzene	20.0		0.67	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.9		0.80	2.50	5.00	ug/Kg
104-51-8	n-Butylbenzene	19.9		0.63	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		0.59	2.50	5.00	ug/Kg
123-91-1	1,4-Dioxane	450		42.5	80.0	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.0		71 - 136		110%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1226SBS01		SDG No.:	P5316
Lab Sample ID:	VY1226SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020715.D	1		12/26/24 14:32	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	52.1		78 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.6		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		79 - 119		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	120000	7.72				
540-36-3	1,4-Difluorobenzene	166000	8.622				
3114-55-4	Chlorobenzene-d5	139000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	74000	13.353				

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:	VY1226SBSD01		SDG No.:	P5316
Lab Sample ID:	VY1226SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020716.D	1		12/26/24 14:54	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-01-4	Vinyl Chloride	18.1		0.77	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.9		0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	99.3		6.20	20.0	25.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.6		0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.7		3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.3		0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.0		0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.5		0.78	2.50	5.00	ug/Kg
71-43-2	Benzene	19.4		0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	2.50	5.00	ug/Kg
108-88-3	Toluene	19.7		0.67	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.4		0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.62	2.50	5.00	ug/Kg
1330-20-7	Total Xylenes	59.5		2.10	7.50	15.0	ug/Kg
103-65-1	n-propylbenzene	19.4		0.64	2.50	5.00	ug/Kg
98-06-6	tert-Butylbenzene	19.7		0.67	2.50	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	19.7		1.40	2.50	5.00	ug/Kg
135-98-8	sec-Butylbenzene	19.5		0.67	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.8		0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.4		0.80	2.50	5.00	ug/Kg
104-51-8	n-Butylbenzene	19.5		0.63	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		0.59	2.50	5.00	ug/Kg
123-91-1	1,4-Dioxane	460		42.5	80.0	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.3		71 - 136		115%	SPK: 50

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VY1226SBSD01		SDG No.:	P5316
Lab Sample ID:	VY1226SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020716.D	1		12/26/24 14:54	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	53.2		78 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.1		85 - 116		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		79 - 119		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	116000	7.713				
540-36-3	1,4-Difluorobenzene	164000	8.622				
3114-55-4	Chlorobenzene-d5	141000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	73700	13.353				

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.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID:		RRF010 = VY020613.D		RRF020 = VY020614.D		RRF050 = VY020615.D		RRF100 = VY020616.D		RRF150 = VY020617.D		RRF005 = VY020619.D	
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	% RSD					
Vinyl Chloride	0.443	0.469	0.371	0.440	0.374	0.487	0.431	11.3					
1,1-Dichloroethene	0.701	0.637	0.589	0.638	0.528	0.667	0.627	9.7					
Acetone	0.141	0.107	0.098	0.110		0.168	0.125	23.2					
Methyl tert-butyl Ether	1.799	1.584	1.663	1.652	1.466	1.542	1.618	7.1					
Methylene Chloride	0.758	0.683	0.617	0.665	0.596	0.766	0.681	10.3					
trans-1,2-Dichloroethene	0.771	0.703	0.710	0.692	0.636	0.707	0.703	6.2					
1,1-Dichloroethane	1.401	1.307	1.323	1.300	1.173	1.333	1.306	5.7					
2-Butanone	0.245	0.191	0.197	0.195	0.166	0.228	0.204	13.9					
Carbon Tetrachloride	0.768	0.715	0.701	0.697	0.656	0.730	0.711	5.2					
cis-1,2-Dichloroethene	0.875	0.815	0.817	0.797	0.724	0.827	0.809	6.1					
Chloroform	1.768	1.465	1.378	1.302	1.186	2.069	1.528	21.6					
1,1,1-Trichloroethane	1.298	1.215	1.198	1.183	1.086	1.219	1.200	5.7					
Benzene	2.055	1.900	1.859	1.847	1.713	1.927	1.883	5.9					
1,2-Dichloroethane	0.546	0.499	0.500	0.498	0.452	0.502	0.500	6					
Trichloroethene	0.501	0.462	0.458	0.453	0.422	0.481	0.463	5.8					
Toluene	1.247	1.185	1.167	1.165	1.082	1.176	1.170	4.5					
Tetrachloroethene	0.505	0.464	0.452	0.446	0.422	0.533	0.470	8.7					
Chlorobenzene	1.501	1.397	1.374	1.381	1.293	1.441	1.398	5					
Ethyl Benzene	2.747	2.583	2.556	2.543	2.414	2.633	2.579	4.2					
m/p-Xylenes	1.031	0.951	0.953	0.942	0.892	0.984	0.959	4.8					
o-Xylene	0.956	0.892	0.898	0.887	0.842	0.894	0.895	4.1					
n-propylbenzene	5.566	5.397	5.283	5.151	4.837	5.307	5.257	4.7					
tert-Butylbenzene	3.378	3.288	3.215	3.178	2.992	3.188	3.206	4					
1,2,4-Trimethylbenzene	3.660	3.534	3.536	3.429	3.224	3.454	3.473	4.2					
sec-Butylbenzene	4.894	4.777	4.690	4.543	4.263	4.806	4.662	4.9					
1,3-Dichlorobenzene	1.982	1.912	1.864	1.832	1.702	1.966	1.876	5.5					
1,4-Dichlorobenzene	1.980	1.852	1.832	1.797	1.680	2.008	1.858	6.5					
n-Butylbenzene	3.755	3.736	3.749	3.599	3.393	3.625	3.643	3.8					
1,2-Dichlorobenzene	1.735	1.614	1.606	1.602	1.501	1.694	1.626	5					
1,2-Dichloroethane-d4	0.619	0.487	0.569	0.507	0.467	0.636	0.548	13					

* 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.: P5316 SAS No.: P5316 SDG No.: P5316
 Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF010 = VY020613.D		RRF020 = VY020614.D		RRF050 = VY020615.D		
		RRF100 = VY020616.D		RRF150 = VY020617.D		RRF005 = VY020619.D		
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{\text{RRF}}$	% RSD
Dibromofluoromethane	0.385	0.328	0.360	0.325	0.313	0.404	0.352	10.4
Toluene-d8	1.314	1.127	1.271	1.143	1.100	1.445	1.233	10.9
4-Bromofluorobenzene	0.538	0.448	0.480	0.433	0.412	0.585	0.482	13.9
1,4-Dioxane	3.173	2.476	2.673	2.757	2.467	2.462	2.668	10.4

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:31 11:51

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

LAB FILE ID:								
RRF005 = VY020706.D			RRF010 = VY020707.D			RRF020 = VY020708.D		
RRF050 = VY020709.D			RRF150 = VY020710.D			RRF100 = VY020711.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	RRF	% RSD
Vinyl Chloride	0.168	0.195	0.176	0.192	0.178	0.181	0.182	5.6
1,1-Dichloroethene	0.326	0.359	0.330	0.352	0.340	0.344	0.342	3.7
Acetone	0.050	0.068	0.045	0.054	0.048	0.046	0.052	16.8
Methyl tert-butyl Ether	0.880	1.004	0.922	1.015	0.942	0.951	0.952	5.3
Methylene Chloride	0.324	0.365	0.328	0.343	0.329	0.338	0.338	4.5
trans-1,2-Dichloroethene	0.339	0.378	0.356	0.391	0.368	0.378	0.368	5
1,1-Dichloroethane	0.571	0.661	0.596	0.620	0.591	0.620	0.609	5.1
2-Butanone	0.069	0.069	0.066	0.080	0.071	0.067	0.070	7
Carbon Tetrachloride	0.556	0.644	0.581	0.614	0.593	0.606	0.599	5
cis-1,2-Dichloroethene	0.419	0.460	0.426	0.462	0.432	0.447	0.441	4.1
Chloroform	0.839	0.821	0.753	0.788	0.742	0.762	0.784	5
1,1,1-Trichloroethane	0.814	0.897	0.826	0.859	0.816	0.831	0.840	3.8
Benzene	0.969	1.104	1.040	1.089	1.041	1.083	1.054	4.7
1,2-Dichloroethane	0.297	0.352	0.325	0.364	0.342	0.348	0.338	7
Trichloroethene	0.288	0.336	0.315	0.324	0.309	0.317	0.315	5.1
Toluene	0.654	0.751	0.722	0.745	0.723	0.741	0.723	4.9
Tetrachloroethene	0.308	0.360	0.348	0.351	0.337	0.346	0.342	5.3
Chlorobenzene	0.925	1.044	0.976	1.002	0.943	0.985	0.979	4.3
Ethyl Benzene	1.540	1.810	1.715	1.778	1.682	1.743	1.711	5.6
m/p-Xylenes	0.590	0.691	0.649	0.675	0.643	0.667	0.653	5.4
o-Xylene	0.552	0.666	0.639	0.650	0.603	0.632	0.624	6.6
n-propylbenzene	3.521	4.231	3.972	3.896	3.774	3.902	3.883	6
tert-Butylbenzene	2.487	2.888	2.751	2.727	2.632	2.687	2.695	4.9
1,2,4-Trimethylbenzene	2.513	2.946	2.860	2.888	2.777	2.867	2.809	5.5
sec-Butylbenzene	3.316	3.880	3.730	3.676	3.540	3.653	3.633	5.3
1,3-Dichlorobenzene	1.428	1.670	1.567	1.578	1.529	1.579	1.559	5.1
1,4-Dichlorobenzene	1.492	1.625	1.562	1.572	1.502	1.549	1.550	3.1
n-Butylbenzene	2.356	2.894	2.764	2.757	2.683	2.760	2.702	6.8
1,2-Dichlorobenzene	1.197	1.374	1.362	1.410	1.328	1.347	1.336	5.5
1,2-Dichloroethane-d4	0.335	0.402	0.313	0.516	0.433	0.457	0.410	18.7

* 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.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:31 11:51

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

LAB FILE ID:		RRF005 = VY020706.D		RRF010 = VY020707.D		RRF020 = VY020708.D		
		RRF050 = VY020709.D		RRF150 = VY020710.D		RRF100 = VY020711.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{\text{RRF}}$	% RSD
Dibromofluoromethane	0.235	0.274	0.232	0.319	0.284	0.307	0.275	13.1
Toluene-d8	0.733	0.883	0.733	1.227	1.093	1.158	0.971	22.4
4-Bromofluorobenzene	0.303	0.378	0.319	0.426	0.373	0.397	0.366	12.8
1,4-Dioxane	1.014	1.439	1.316	1.680	1.562	1.428	1.407	16.3

* 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.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date/Time: 12/20/2024 09:09

Lab File ID: VY020664.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.431	0.372		-13.69	20
1,1-Dichloroethene	0.627	0.646		3.03	20
Acetone	0.125	0.112		-10.4	20
Methyl tert-butyl Ether	1.618	1.677		3.65	20
Methylene Chloride	0.681	0.700		2.79	20
trans-1,2-Dichloroethene	0.703	0.742		5.55	20
1,1-Dichloroethane	1.306	1.384	0.1	5.97	20
2-Butanone	0.204	0.195		-4.41	20
Carbon Tetrachloride	0.711	0.793		11.53	20
cis-1,2-Dichloroethene	0.809	0.845		4.45	20
Chloroform	1.528	1.402		-8.25	20
1,1,1-Trichloroethane	1.200	1.268		5.67	20
Benzene	1.883	2.064		9.61	20
1,2-Dichloroethane	0.500	0.539		7.8	20
Trichloroethene	0.463	0.499		7.78	20
Toluene	1.170	1.291		10.34	20
Tetrachloroethene	0.470	0.508		8.09	20
Chlorobenzene	1.398	1.523	0.3	8.94	20
Ethyl Benzene	2.579	2.864		11.05	20
m/p-Xylenes	0.959	1.049		9.39	20
o-Xylene	0.895	0.981		9.61	20
n-propylbenzene	5.257	5.794		10.22	20
tert-Butylbenzene	3.206	3.568		11.29	20
1,2,4-Trimethylbenzene	3.473	3.805		9.56	20
sec-Butylbenzene	4.662	5.155		10.57	20
1,3-Dichlorobenzene	1.876	2.012		7.25	20
1,4-Dichlorobenzene	1.858	1.956		5.27	20
n-Butylbenzene	3.643	4.041		10.93	20
1,2-Dichlorobenzene	1.626	1.718		5.66	20
1,2-Dichloroethane-d4	0.548	0.442		-19.34	20
Dibromofluoromethane	0.352	0.306		-13.07	20
Toluene-d8	1.233	1.077		-12.65	20
4-Bromofluorobenzene	0.482	0.406		-15.77	20
1,4-Dioxane	2.668	2.620	0.05	-1.8	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.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date/Time: 12/20/2024 19:35

Lab File ID: VY020682.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.431	0.262		-39.21	50
1,1-Dichloroethene	0.627	0.500		-20.25	50
Acetone	0.125	0.087		-30.4	50
Methyl tert-butyl Ether	1.618	1.685		4.14	50
Methylene Chloride	0.681	0.659		-3.23	50
trans-1,2-Dichloroethene	0.703	0.713		1.42	50
1,1-Dichloroethane	1.306	1.366	0.1	4.59	50
2-Butanone	0.204	0.202		-0.98	50
Carbon Tetrachloride	0.711	0.692		-2.67	50
cis-1,2-Dichloroethene	0.809	0.836		3.34	50
Chloroform	1.528	1.423		-6.87	50
1,1,1-Trichloroethane	1.200	1.204		0.33	50
Benzene	1.883	1.905		1.17	50
1,2-Dichloroethane	0.500	0.515		3	50
Trichloroethene	0.463	0.463		0	50
Toluene	1.170	1.198		2.39	50
Tetrachloroethene	0.470	0.443		-5.74	50
Chlorobenzene	1.398	1.409	0.3	0.79	50
Ethyl Benzene	2.579	2.542		-1.43	50
m/p-Xylenes	0.959	0.944		-1.56	50
o-Xylene	0.895	0.891		-0.45	50
n-propylbenzene	5.257	4.958		-5.69	50
tert-Butylbenzene	3.206	3.020		-5.8	50
1,2,4-Trimethylbenzene	3.473	3.335		-3.97	50
sec-Butylbenzene	4.662	4.327		-7.19	50
1,3-Dichlorobenzene	1.876	1.803		-3.89	50
1,4-Dichlorobenzene	1.858	1.784		-3.98	50
n-Butylbenzene	3.643	3.417		-6.2	50
1,2-Dichlorobenzene	1.626	1.586		-2.46	50
1,2-Dichloroethane-d4	0.548	0.472		-13.87	50
Dibromofluoromethane	0.352	0.311		-11.65	50
Toluene-d8	1.233	1.049		-14.92	50
4-Bromofluorobenzene	0.482	0.406		-15.77	50
1,4-Dioxane	2.668	2.853	0.05	6.93	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.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date/Time: 12/26/2024 19:34

Lab File ID: VY020728.D Init. Calib. Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:31 11:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.182	0.179		-1.65	50
1,1-Dichloroethene	0.342	0.342		0	50
Acetone	0.052	0.049		-5.77	50
Methyl tert-butyl Ether	0.952	0.995		4.52	50
Methylene Chloride	0.338	0.368		8.88	50
trans-1,2-Dichloroethene	0.368	0.389		5.71	50
1,1-Dichloroethane	0.609	0.649	0.1	6.57	50
2-Butanone	0.070	0.077		10	50
Carbon Tetrachloride	0.599	0.539		-10.18	50
cis-1,2-Dichloroethene	0.441	0.465		5.44	50
Chloroform	0.784	0.803		2.42	50
1,1,1-Trichloroethane	0.840	0.815		-2.98	50
Benzene	1.054	1.074		1.9	50
1,2-Dichloroethane	0.338	0.338		0	50
Trichloroethene	0.315	0.307		-2.54	50
Toluene	0.723	0.732		1.25	50
Tetrachloroethene	0.342	0.319		-6.72	50
Chlorobenzene	0.979	0.970	0.3	-0.92	50
Ethyl Benzene	1.711	1.696		-0.88	50
m/p-Xylenes	0.653	0.644		-1.38	50
o-Xylene	0.624	0.616		-1.28	50
n-propylbenzene	3.883	3.687		-5.05	50
tert-Butylbenzene	2.695	2.503		-7.12	50
1,2,4-Trimethylbenzene	2.809	2.733		-2.71	50
sec-Butylbenzene	3.633	3.391		-6.66	50
1,3-Dichlorobenzene	1.559	1.481		-5	50
1,4-Dichlorobenzene	1.550	1.470		-5.16	50
n-Butylbenzene	2.702	2.492		-7.77	50
1,2-Dichlorobenzene	1.336	1.313		-1.72	50
1,2-Dichloroethane-d4	0.410	0.485		18.29	50
Dibromofluoromethane	0.275	0.305		10.91	50
Toluene-d8	0.971	1.170		20.49	50
4-Bromofluorobenzene	0.366	0.411		12.3	50
1,4-Dioxane	1.407	1.590	0.05	13.01	50

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