

LAB CHRONICLE

OrderID:	Q1069	OrderDate:	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-02	RW7B-CARBON-20250 109	TCLP	TCLP VOA	8260D	01/09/25		01/16/25	01/09/25

Hit Summary Sheet SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: RW7B-CARBON-20250109									
Q1069-02	RW7B-CARBON-2 TCLP		Chloroform	2.00	J	0.26	0.50	5.00	ug/L
Q1069-02	RW7B-CARBON-2 TCLP		1,2-Dichloroethane	0.96	J	0.24	0.75	5.00	ug/L
Q1069-02	RW7B-CARBON-2 TCLP		Trichloroethene	1.60	J	0.32	0.75	5.00	ug/L
Total Voc :				4.56					
Total Concentration:				4.56					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/09/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25		
Client Sample ID:	RW7B-CARBON-20250109			SDG No.:	Q1069		
Lab Sample ID:	Q1069-02			Matrix:	TCLP		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085470.D	1		01/16/25 15:22	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	2.00	J	0.26	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.96	J	0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	1.60	J	0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	199000	8.218				
540-36-3	1,4-Difluorobenzene	359000	9.094				
3114-55-4	Chlorobenzene-d5	315000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.788				

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.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1069-02	RW7B-CARBON-20250109	1,2-Dichloroethane-d4	50	53.7	107	81	118
		Dibromofluoromethane	50	50.6	101	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	49.1	98	85	114

Surrogate Summary

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VN0116WBL01	VN0116WBL01	1,2-Dichloroethane-d4	50	57.4	115	81	118
		Dibromofluoromethane	50	53.1	106	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	47.9	96	85	114
VN0116WBS02	VN0116WBS02	1,2-Dichloroethane-d4	50	52.5	105	81	118
		Dibromofluoromethane	50	53.9	108	80	119
		Toluene-d8	50	56.1	112	89	112
		4-Bromofluorobenzene	50	55.9	112	85	114
VN0116WBSD0	VN0116WBSD02	1,2-Dichloroethane-d4	50	54.2	108	81	118
		Dibromofluoromethane	50	53.3	107	80	119
		Toluene-d8	50	55.3	111	89	112
		4-Bromofluorobenzene	50	54.2	108	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085469.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0116WBS02	Vinyl chloride	20	17.5	ug/L	88			58	137	
	1,1-Dichloroethene	20	18.4	ug/L	92			71	131	
	2-Butanone	100	87.3	ug/L	87			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	Chloroform	20	18.0	ug/L	90			79	124	
	Benzene	20	18.8	ug/L	94			79	120	
	1,2-Dichloroethane	20	18.8	ug/L	94			73	128	
	Trichloroethene	20	18.4	ug/L	92			79	123	
	Tetrachloroethene	20	19.5	ug/L	98			74	129	
	Chlorobenzene	20	19.2	ug/L	96			82	118	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085477.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0116WBSD02	Vinyl chloride	20	19.8	ug/L	99	12		58	137	20
	1,1-Dichloroethene	20	20.4	ug/L	102	10		71	131	20
	2-Butanone	100	110	ug/L	110	23	*	56	143	20
	Carbon Tetrachloride	20	20.4	ug/L	102	10		72	136	20
	Chloroform	20	20.7	ug/L	104	14		79	124	20
	Benzene	20	20.5	ug/L	103	9		79	120	20
	1,2-Dichloroethane	20	20.7	ug/L	104	10		73	128	20
	Trichloroethene	20	19.7	ug/L	99	7		79	123	20
	Tetrachloroethene	20	20.5	ug/L	103	5		74	129	20
	Chlorobenzene	20	20.1	ug/L	101	5		82	118	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0116WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1069

SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: VN085467.D

Lab Sample ID: VN0116WBL01

Date Analyzed: 01/16/2025

Time Analyzed: 13:30

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0116WBS02	VN0116WBS02	VN085469.D	01/16/2025
RW7B-CARBON-20250109	Q1069-02	VN085470.D	01/16/2025
VN0116WBSD02	VN0116WBSD02	VN085477.D	01/16/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085437.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_N BFB Injection Time: 14:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	74.1 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (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
VSTDIC100	VSTDIC100	VN085438.D	01/14/2025	14:56
VSTDICCC050	VSTDICCC050	VN085439.D	01/14/2025	15:19
VSTDIC020	VSTDIC020	VN085440.D	01/14/2025	15:43
VSTDIC010	VSTDIC010	VN085441.D	01/14/2025	16:07
VSTDIC005	VSTDIC005	VN085442.D	01/14/2025	16:31
VSTDIC001	VSTDIC001	VN085443.D	01/14/2025	17:19

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085464.D BFB Injection Date: 01/16/2025
Instrument ID: MSVOA_N BFB Injection Time: 11:42
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.3 (1.8) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	70.6 (97.1) 1
177	5.0 - 9.0% of mass 176	4.6 (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
VSTDCCC050	VSTDCCC050	VN085465.D	01/16/2025	12:30
VN0116WBL01	VN0116WBL01	VN085467.D	01/16/2025	13:30
VN0116WBS02	VN0116WBS02	VN085469.D	01/16/2025	14:58
RW7B-CARBON-20250109	Q1069-02	VN085470.D	01/16/2025	15:22
VN0116WBSD02	VN0116WBSD02	VN085477.D	01/16/2025	18:08
VSTDCCC050EC	VSTDCCC050	VN085478.D	01/16/2025	18:32

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085465.D Date Analyzed: 01/16/2025
Instrument ID: MSVOA_N Time Analyzed: 12:30
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	199641	8.22	338720	9.09	304435	11.87
UPPER LIMIT	399282	8.724	677440	9.594	608870	12.365
LOWER LIMIT	99820.5	7.724	169360	8.594	152218	11.365
EPA SAMPLE NO.						
RW7B-CARBON-20250109	198665	8.22	358567	9.09	314710	11.86
VN0116WBL01	181190	8.22	338995	9.10	304427	11.87
VN0116WBS02	216168	8.22	362531	9.10	315947	11.87
VN0116WBSD02	189081	8.22	325305	9.10	284195	11.86

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.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085465.D Date Analyzed: 01/16/2025
Instrument ID: MSVOA_N Time Analyzed: 12:30
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	154064	13.788				
UPPER LIMIT	308128	14.288				
LOWER LIMIT	77032	13.288				
EPA SAMPLE NO.						
RW7B-CARBON-20250109	128541	13.79				
VN0116WBL01	123871	13.79				
VN0116WBS02	152840	13.79				
VN0116WBSD02	135710	13.79				

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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0116WBL01		SDG No.:	Q1069
Lab Sample ID:	VN0116WBL01		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085467.D	1		01/16/25 13:30	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	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
67-66-3	Chloroform	0.50	U	0.26	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
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
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.4		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	8.224				
540-36-3	1,4-Difluorobenzene	339000	9.1				
3114-55-4	Chlorobenzene-d5	304000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.788				

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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0116WBS02		SDG No.:	Q1069
Lab Sample ID:	VN0116WBS02		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085469.D	1		01/16/25 14:58	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	17.5		0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	87.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
67-66-3	Chloroform	18.0		0.26	0.50	1.00	ug/L
71-43-2	Benzene	18.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	56.1		89 - 112		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.9		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	216000	8.218				
540-36-3	1,4-Difluorobenzene	363000	9.1				
3114-55-4	Chlorobenzene-d5	316000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	153000	13.788				

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0116WBSD02		SDG No.:	Q1069
Lab Sample ID:	VN0116WBSD02		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085477.D	1		01/16/25 18:08	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	19.8		0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.25	0.50	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	0.50	1.00	ug/L
71-43-2	Benzene	20.5		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.7		0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	55.3		89 - 112		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	189000	8.224				
540-36-3	1,4-Difluorobenzene	325000	9.1				
3114-55-4	Chlorobenzene-d5	284000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.788				

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.: Q1069 SAS No.: Q1069 SDG No.: Q1069
 Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D			
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Vinyl Chloride	0.697	0.686	0.727	0.711	0.781	0.819	0.737	7.1	
1,1-Dichloroethene	0.548	0.533	0.556	0.526	0.559	0.497	0.537	4.3	
2-Butanone	0.378	0.390	0.398	0.363	0.387	0.386	0.384	3.1	
Carbon Tetrachloride	0.574	0.530	0.579	0.529	0.565	0.567	0.557	4	
Chloroform	1.197	1.175	1.241	1.169	1.253	1.273	1.218	3.6	
Benzene	1.551	1.449	1.527	1.376	1.474	1.400	1.463	4.7	
1,2-Dichloroethane	0.569	0.547	0.575	0.522	0.574	0.517	0.551	4.8	
Trichloroethene	0.362	0.324	0.352	0.310	0.343	0.352	0.341	5.8	
Tetrachloroethene	0.351	0.322	0.365	0.338	0.346	0.323	0.341	4.9	
Chlorobenzene	1.133	1.076	1.154	1.047	1.110	1.051	1.095	4	
1,2-Dichloroethane-d4	0.774	0.831	0.754	0.762	0.914		0.807	8.3	
Dibromofluoromethane	0.359	0.358	0.335	0.310	0.373		0.347	7.1	
Toluene-d8	1.339	1.267	1.207	1.076	1.274		1.232	8.1	
4-Bromofluorobenzene	0.475	0.449	0.410	0.357	0.417		0.422	10.6	

* 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.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: MSVOA_N Calibration Date/Time: 01/16/2025 12:30

Lab File ID: VN085465.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.737	0.708		-3.93	20
1,1-Dichloroethene	0.537	0.539		0.37	20
2-Butanone	0.384	0.397		3.38	20
Carbon Tetrachloride	0.557	0.567		1.79	20
Chloroform	1.218	1.244		2.13	20
Benzene	1.463	1.531		4.65	20
1,2-Dichloroethane	0.551	0.573		3.99	20
Trichloroethene	0.341	0.331		-2.93	20
Tetrachloroethene	0.341	0.346		1.47	20
Chlorobenzene	1.095	1.103	0.3	0.73	20
1,2-Dichloroethane-d4	0.807	0.883		9.42	20
Dibromofluoromethane	0.347	0.381		9.8	20
Toluene-d8	1.232	1.408		14.29	20
4-Bromofluorobenzene	0.422	0.495		17.3	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.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: MSVOA_N Calibration Date/Time: 01/16/2025 18:32

Lab File ID: VN085478.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.737	0.742		0.68	50
1,1-Dichloroethene	0.537	0.556		3.54	50
2-Butanone	0.384	0.428		11.46	50
Carbon Tetrachloride	0.557	0.585		5.03	50
Chloroform	1.218	1.273		4.52	50
Benzene	1.463	1.568		7.18	50
1,2-Dichloroethane	0.551	0.592		7.44	50
Trichloroethene	0.341	0.348		2.05	50
Tetrachloroethene	0.341	0.352		3.23	50
Chlorobenzene	1.095	1.158	0.3	5.75	50
1,2-Dichloroethane-d4	0.807	0.859		6.44	50
Dibromofluoromethane	0.347	0.371		6.92	50
Toluene-d8	1.232	1.344		9.09	50
4-Bromofluorobenzene	0.422	0.476		12.8	50

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