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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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LAB CHRONICLE

OrderID:	P4658	**OrderDate:**	10/31/2024 12:18:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4658-04	**TB**	**Water**			**10/31/24**			**10/31/24**
			VOC-TCLVOA-10	8260-Low			11/01/24	

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Hit Summary Sheet
SW-846

SDG No.: P4658

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

QC SUMMARY

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Surrogate Summary

SDG No.: P4658

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4658-04	TB	1,2-Dichloroethane-d4	50	50.6	101	70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99	70 (75)	130 (124)
		Toluene-d8	50	47.6	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.3	91	70 (77)	130 (121)
VN1101WBL01	VN1101WBL01	1,2-Dichloroethane-d4	50	51.6	103	70 (74)	130 (125)
		Dibromofluoromethane	50	49.8	100	70 (75)	130 (124)
		Toluene-d8	50	47.4	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.8	94	70 (77)	130 (121)
VN1101WBS01	VN1101WBS01	1,2-Dichloroethane-d4	50	44.3	89	70 (74)	130 (125)
		Dibromofluoromethane	50	45.1	90	70 (75)	130 (124)
		Toluene-d8	50	46.1	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VN1101WBSD0	VN1101WBSD01	1,2-Dichloroethane-d4	50	45.0	90	70 (74)	130 (125)
		Dibromofluoromethane	50	46.5	93	70 (75)	130 (124)
		Toluene-d8	50	46.3	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.5	93	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4658

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084631.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1101WBS01	Dichlorodifluoromethane	20	19.2	ug/L	96			40 (69)	160 (116)	
	Chloromethane	20	16.4	ug/L	82			40 (65)	160 (116)	
	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	Bromomethane	20	18.0	ug/L	90			40 (58)	160 (125)	
	Chloroethane	20	18.2	ug/L	91			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.8	ug/L	94			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.7	ug/L	89			70 (74)	130 (110)	
	Acetone	100	96.0	ug/L	96			40 (60)	160 (125)	
	Carbon disulfide	20	16.7	ug/L	84			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.1	ug/L	96			70 (78)	130 (114)	
	Methyl Acetate	20	16.1	ug/L	81			70 (67)	130 (125)	
	Methylene Chloride	20	19.0	ug/L	95			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.5	ug/L	93			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.1	ug/L	96			70 (78)	130 (112)	
	Cyclohexane	20	18.3	ug/L	92			70 (75)	130 (110)	
	2-Butanone	100	96.7	ug/L	97			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.7	ug/L	99			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			70 (77)	130 (110)	
	Bromochloromethane	20	21.5	ug/L	108			70 (70)	130 (124)	
	Chloroform	20	19.6	ug/L	98			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	18.4	ug/L	92			70 (72)	130 (115)	
	Benzene	20	18.8	ug/L	94			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.5	ug/L	98			70 (80)	130 (115)	
	Trichloroethene	20	18.4	ug/L	92			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.1	ug/L	96			70 (83)	130 (111)	
	Bromodichloromethane	20	19.2	ug/L	96			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	20.1	ug/L	101			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	20.3	ug/L	102			70 (82)	130 (110)	
	1,2-Dibromoethane	20	19.0	ug/L	95			70 (81)	130 (110)	
	Tetrachloroethene	20	18.6	ug/L	93			70 (67)	130 (123)	
	Chlorobenzene	20	18.3	ug/L	92			70 (82)	130 (109)	
	Ethyl Benzene	20	18.8	ug/L	94			70 (83)	130 (109)	
	m/p-Xylenes	40	38.9	ug/L	97			70 (82)	130 (110)	
	o-Xylene	20	20.0	ug/L	100			70 (83)	130 (109)	
	Styrene	20	19.4	ug/L	97			70 (80)	130 (111)	
	Bromoform	20	19.0	ug/L	95			70 (79)	130 (109)	
	Isopropylbenzene	20	18.5	ug/L	93			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	18.1	ug/L	91			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	16.8	ug/L	84			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	17.3	ug/L	86			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.0	ug/L	85			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4658

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084631.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1101WBS01	1,2-Dibromo-3-Chloropropane	20	17.9	ug/L	90			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	14.7	ug/L	74			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	15.3	ug/L	77			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4658

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084632.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1101WBSD01	Dichlorodifluoromethane	20	19.4	ug/L	97	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.8	ug/L	84	2		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.9	ug/L	95	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.4	ug/L	92	2		40 (58)	160 (125)	20 (20)
	Chloroethane	20	19.0	ug/L	95	4		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	20.1	ug/L	101	7		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99	2		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	18.5	ug/L	93	4		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	14		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.5	ug/L	88	5		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	20.4	ug/L	102	6		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	18.2	ug/L	91	12		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.4	ug/L	97	2		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	2		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.9	ug/L	100	4		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	19.5	ug/L	98	6		70 (75)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	3		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.1	ug/L	101	2		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	6		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.1	ug/L	111	3		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.1	ug/L	101	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.1	ug/L	101	4		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.6	ug/L	98	6		70 (72)	130 (115)	20 (20)
	Benzene	20	19.4	ug/L	97	3		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.4	ug/L	102	4		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.2	ug/L	96	4		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.1	ug/L	101	5		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.1	ug/L	101	5		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	20.8	ug/L	104	3		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.3	ug/L	97	9		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	4		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.1	ug/L	106	6		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.1	ug/L	106	4		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.6	ug/L	103	8		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.8	ug/L	99	6		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.9	ug/L	95	3		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.4	ug/L	97	3		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	39.8	ug/L	100	3		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.1	ug/L	101	1		70 (83)	130 (109)	20 (20)
	Styrene	20	20.2	ug/L	101	4		70 (80)	130 (111)	20 (20)
	Bromoform	20	19.5	ug/L	98	3		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.2	ug/L	96	3		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	18.7	ug/L	94	3		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	17.3	ug/L	86	2		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	18.5	ug/L	93	8		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.2	ug/L	91	7		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4658

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084632.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1101WBSD01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/L	91	1		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	16.0	ug/L	80	8		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	16.1	ug/L	81	5		70 (76)	130 (114)	20 (20)

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1101WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG NO.: P4658

Lab File ID: VN084630.D Lab Sample ID: VN1101WBL01

Date Analyzed: 11/01/2024 Time Analyzed: 11:29

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
VN1101WBS01	VN1101WBS01	VN084631.D	11/01/2024
VN1101WBSD01	VN1101WBSD01	VN084632.D	11/01/2024
TB	P4658-04	VN084634.D	11/01/2024

COMMENTS:

Alliance TECHNICAL GROUP

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG NO.: P4658

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 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
VSTDICC100	VSTDICC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDICC020	VSTDICC020	VN084572.D	10/30/2024	12:33
VSTDICC010	VSTDICC010	VN084573.D	10/30/2024	12:57
VSTDICC005	VSTDICC005	VN084574.D	10/30/2024	13:21
VSTDICC001	VSTDICC001	VN084575.D	10/30/2024	13:45

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG NO.: P4658

Lab File ID: VN084627.D BFB Injection Date: 11/01/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:48

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	19.5
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	74.6
175	5.0 - 9.0% of mass 174	5.4 (7.2) 1
176	95.0 - 101.0% of mass 174	71.2 (95.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 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	VN084628.D	11/01/2024	10:22
VN1101WBL01	VN1101WBL01	VN084630.D	11/01/2024	11:29
VN1101WBS01	VN1101WBS01	VN084631.D	11/01/2024	12:08
VN1101WBSD01	VN1101WBSD01	VN084632.D	11/01/2024	12:32
TB	P4658-04	VN084634.D	11/01/2024	13:20

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG NO.: P4658

Lab File ID: VN084628.D Date Analyzed: 11/01/2024

Instrument ID: MSVOA_N Time Analyzed: 10:22

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	184180	8.22	299507	9.10	271207	11.87
UPPER LIMIT	368360	8.724	599014	9.6	542414	12.365
LOWER LIMIT	92090	7.724	149754	8.6	135604	11.365
EPA SAMPLE NO.						
TB	177716	8.22	313388	9.10	275782	11.87
VN1101WBL01	180035	8.22	318575	9.10	285991	11.87
VN1101WBS01	190995	8.22	320452	9.10	287801	11.87
VN1101WBSD01	179647	8.22	303928	9.10	276373	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG NO.: P4658

Lab File ID: VN084628.D Date Analyzed: 11/01/2024

Instrument ID: MSVOA_N Time Analyzed: 10:22

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

	IS4 AREA #	RT #				
12 HOUR STD	136355	13.794				
UPPER LIMIT	272710	14.294				
LOWER LIMIT	68177.5	13.294				
EPA SAMPLE NO.						
TB	122691	13.79				
VN1101WBL01	125664	13.79				
VN1101WBS01	147052	13.79				
VN1101WBSD01	139639	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.

SAMPLE DATA

Raw Data: **VN084634.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/31/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/31/24
Client Sample ID:	TB	SDG No.:	P4658
Lab Sample ID:	P4658-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084634.D	1		11/01/24 13:20	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN084634.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/31/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/31/24
Client Sample ID:	TB	SDG No.:	P4658
Lab Sample ID:	P4658-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084634.D	1		11/01/24 13:20	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (77) - 130 (121)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.224			
540-36-3	1,4-Difluorobenzene	313000	9.1			
3114-55-4	Chlorobenzene-d5	276000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.788			

Raw Data: **VN084634.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/31/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/31/24
Client Sample ID:	TB	SDG No.:	P4658
Lab Sample ID:	P4658-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084634.D	1		11/01/24 13:20	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

Sample Results: **VN084634.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084634.D
Acq On : 01 Nov 2024 13:20
Operator : JC\MD
Sample : P4658-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB

Quant Time: Nov 04 04:26:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

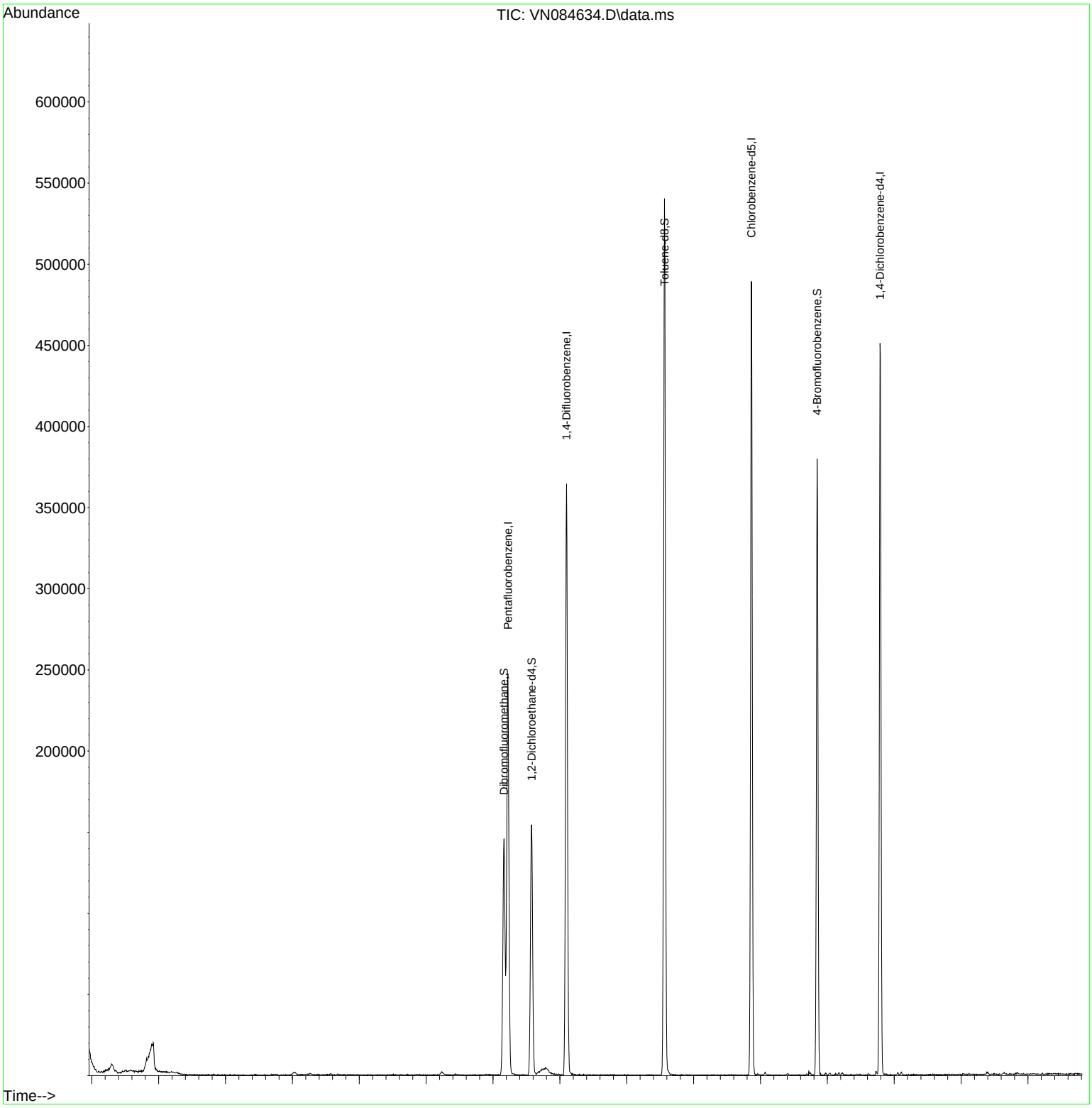
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	177716	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	313388	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275782	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122691	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	130011	50.651	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.300%			
35) Dibromofluoromethane	8.165	113	104651	49.334	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.660%			
50) Toluene-d8	10.565	98	371650	47.562	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.120%			
62) 4-Bromofluorobenzene	12.847	95	132405	45.339	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.680%			
Target Compounds						Qvalue

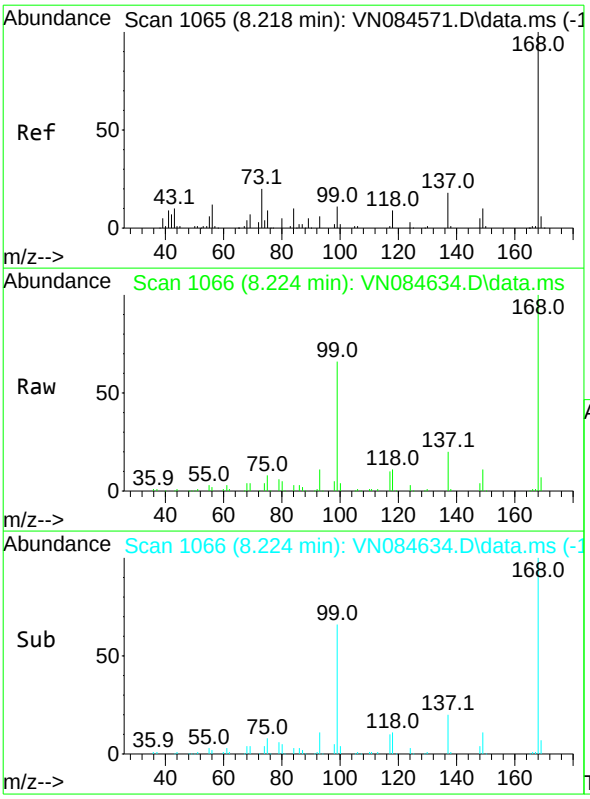
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084634.D
Acq On : 01 Nov 2024 13:20
Operator : JC\MD
Sample : P4658-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB

Quant Time: Nov 04 04:26:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



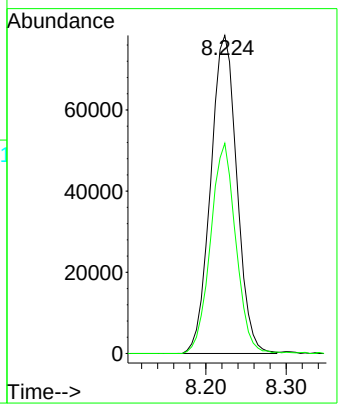


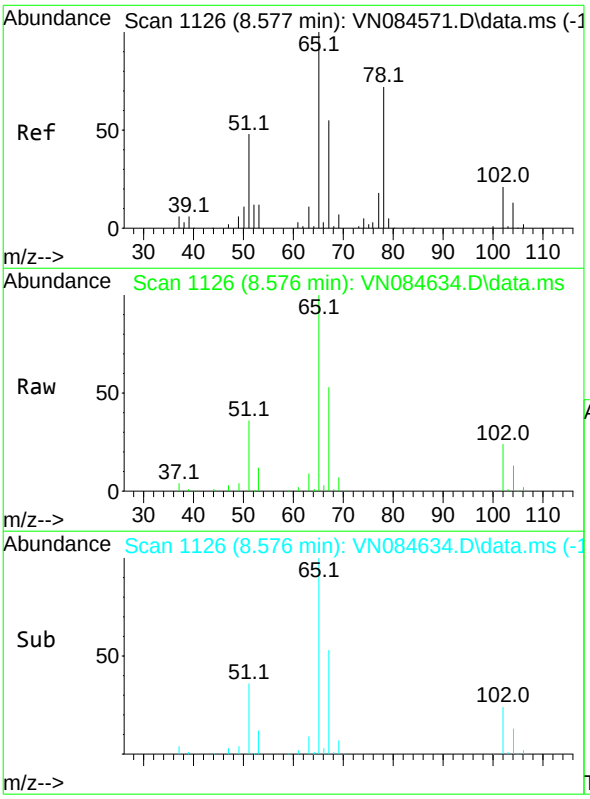
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Instrument :
MSVOA_N
ClientSampleId :
TB

Tgt Ion:168 Resp: 177716

Ion	Ratio	Lower	Upper
168	100		
99	66.1	54.2	81.2

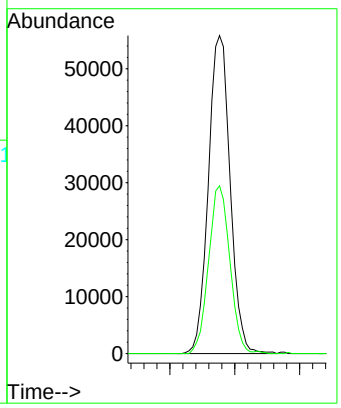


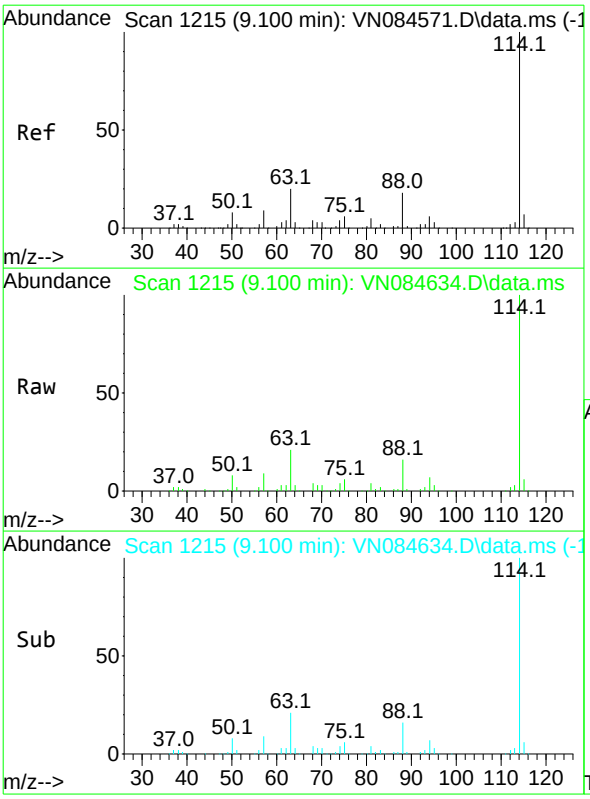


#33
1,2-Dichloroethane-d4
Concen: 50.651 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Tgt Ion: 65 Resp: 130011

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.0



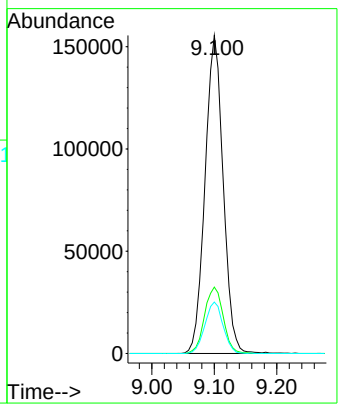


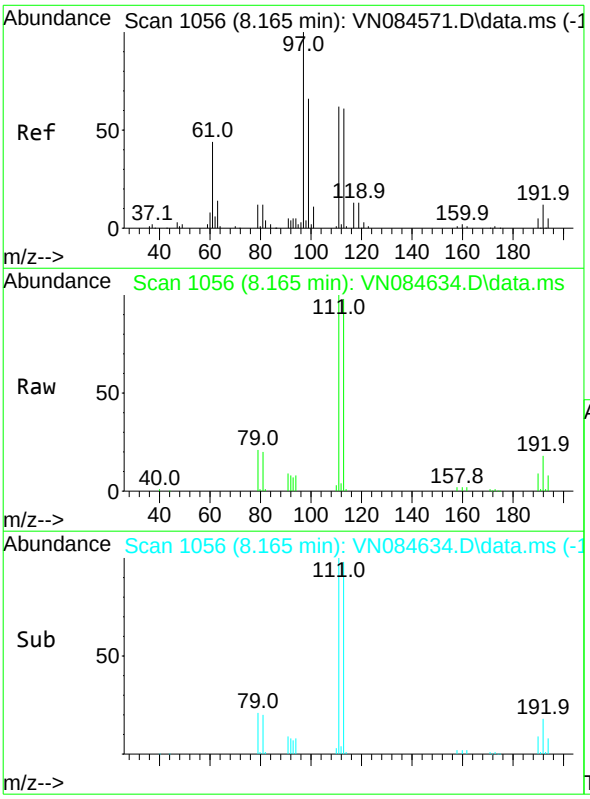
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Instrument :
MSVOA_N
ClientSampleId :
TB

Tgt Ion:114 Resp: 313388

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.8
88	16.2	0.0	31.6

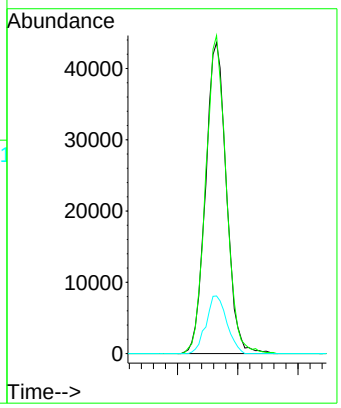


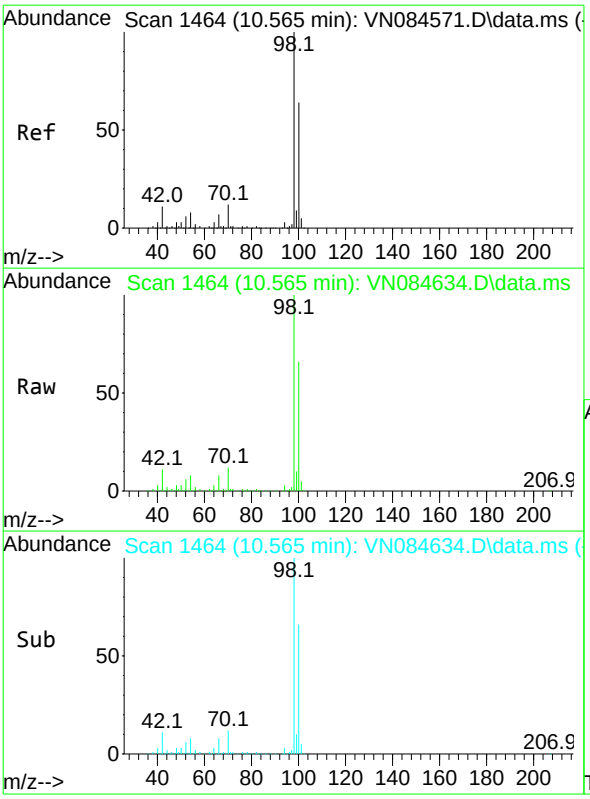


#35
Dibromofluoromethane
Concen: 49.334 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Tgt Ion:113 Resp: 104651

Ion	Ratio	Lower	Upper
113	100		
111	100.4	83.3	124.9
192	18.4	13.5	20.3



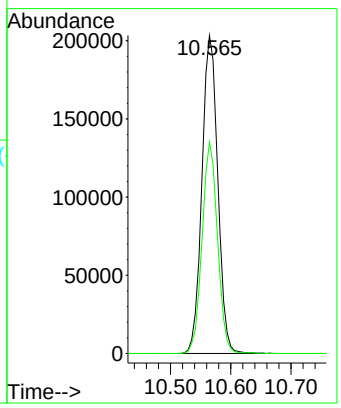


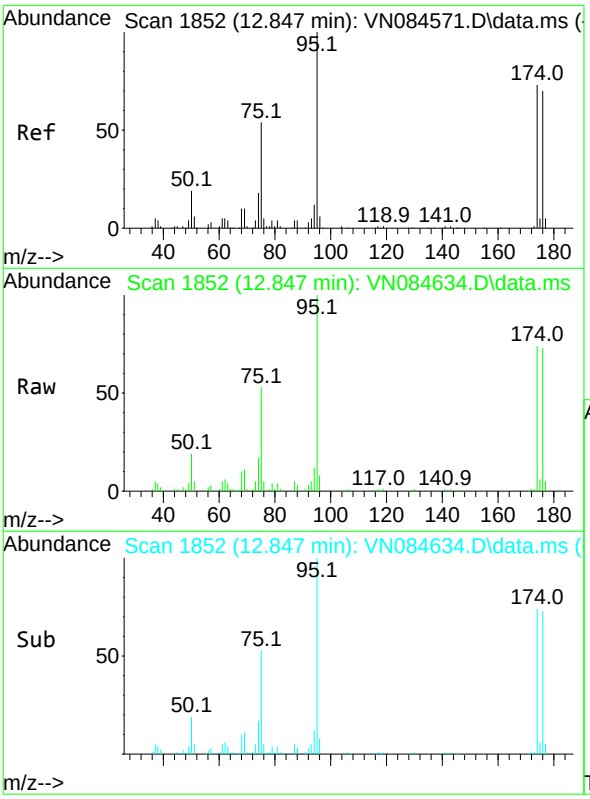
#50
Toluene-d8
Concen: 47.562 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Instrument :
MSVOA_N
ClientSampleId :
TB

Tgt Ion: 98 Resp: 371650

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.7	79.1

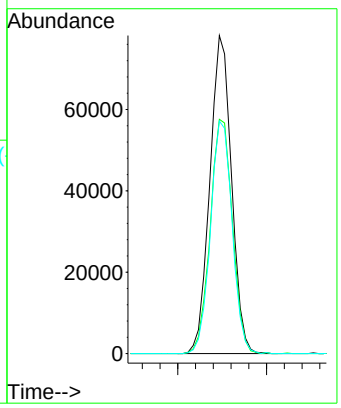


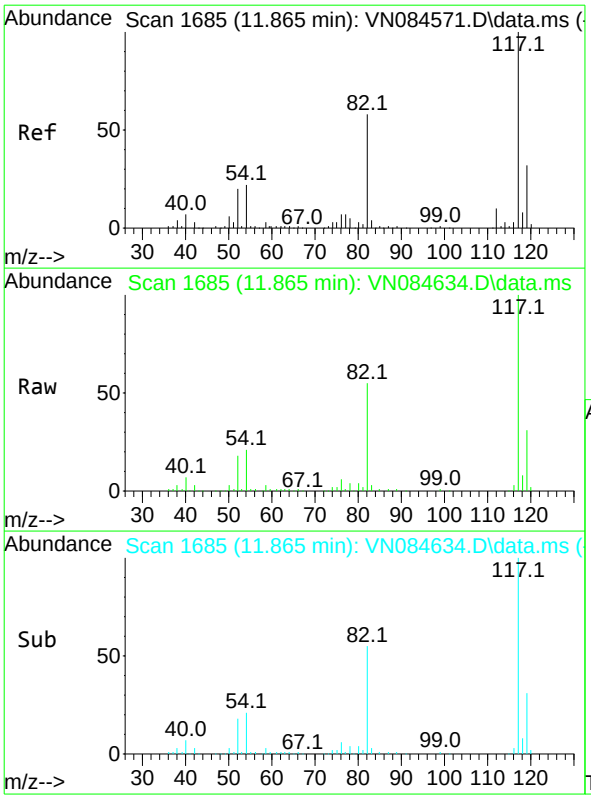


#62
4-Bromofluorobenzene
Concen: 45.339 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Tgt Ion: 95 Resp: 132405

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	145.2
176	73.0	0.0	140.0



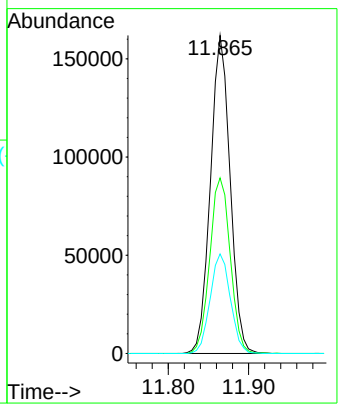


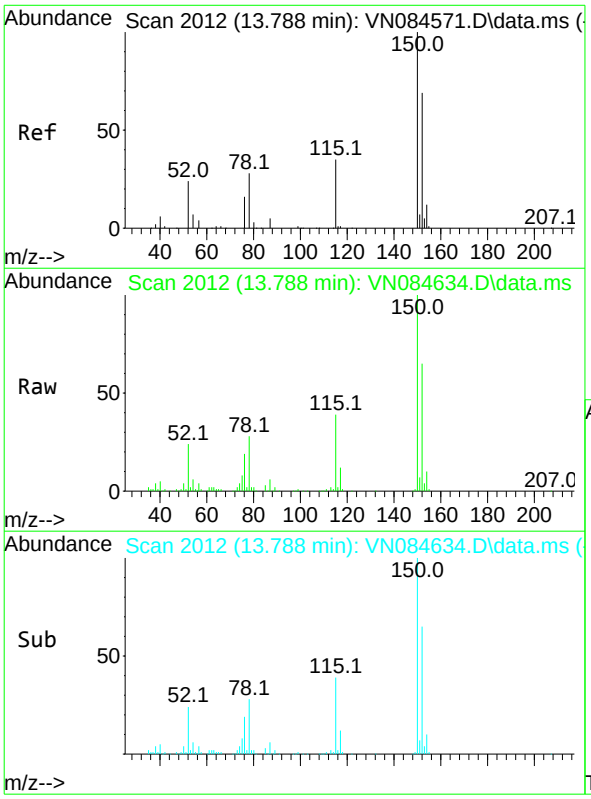
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.001 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Instrument :
MSVOA_N
ClientSampleId :
TB

Tgt Ion:117 Resp: 275782

Ion	Ratio	Lower	Upper
117	100		
82	55.2	47.2	70.8
119	31.3	25.4	38.0

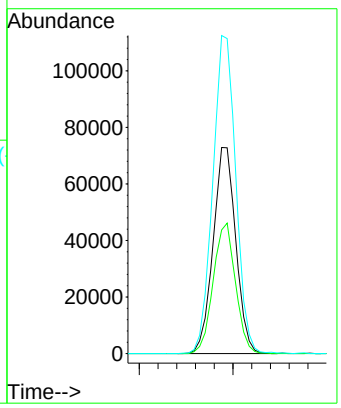




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084634.D
Acq: 01 Nov 2024 13:20

Tgt Ion:152 Resp: 122691

Ion	Ratio	Lower	Upper
152	100		
115	62.0	31.3	93.9
150	156.3	0.0	349.8



Sample Results: **VN084634.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084634.D
Acq On : 01 Nov 2024 13:20
Operator : JC\MD
Sample : P4658-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084634.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.295	53	58	67	rVB4	4513	12527	1.28%	0.239%
2	2.818	139	147	148	rBV3	7859	12821	1.31%	0.245%
3	8.165	1046	1056	1060	rBV	145508	332051	33.85%	6.338%
4	8.224	1060	1066	1077	rVB	246621	560785	57.18%	10.703%
5	8.576	1117	1126	1135	rBV2	154259	351686	35.86%	6.712%
6	9.100	1207	1215	1224	rBV	364155	742737	75.73%	14.176%
7	10.565	1454	1464	1472	rBV	540087	980805	100.00%	18.720%
8	11.865	1677	1685	1698	rVB	489011	851304	86.80%	16.248%
9	12.847	1844	1852	1860	rBV	379887	638017	65.05%	12.177%
10	13.788	2005	2012	2022	rVB	450588	756611	77.14%	14.441%

Sum of corrected areas: 5239344

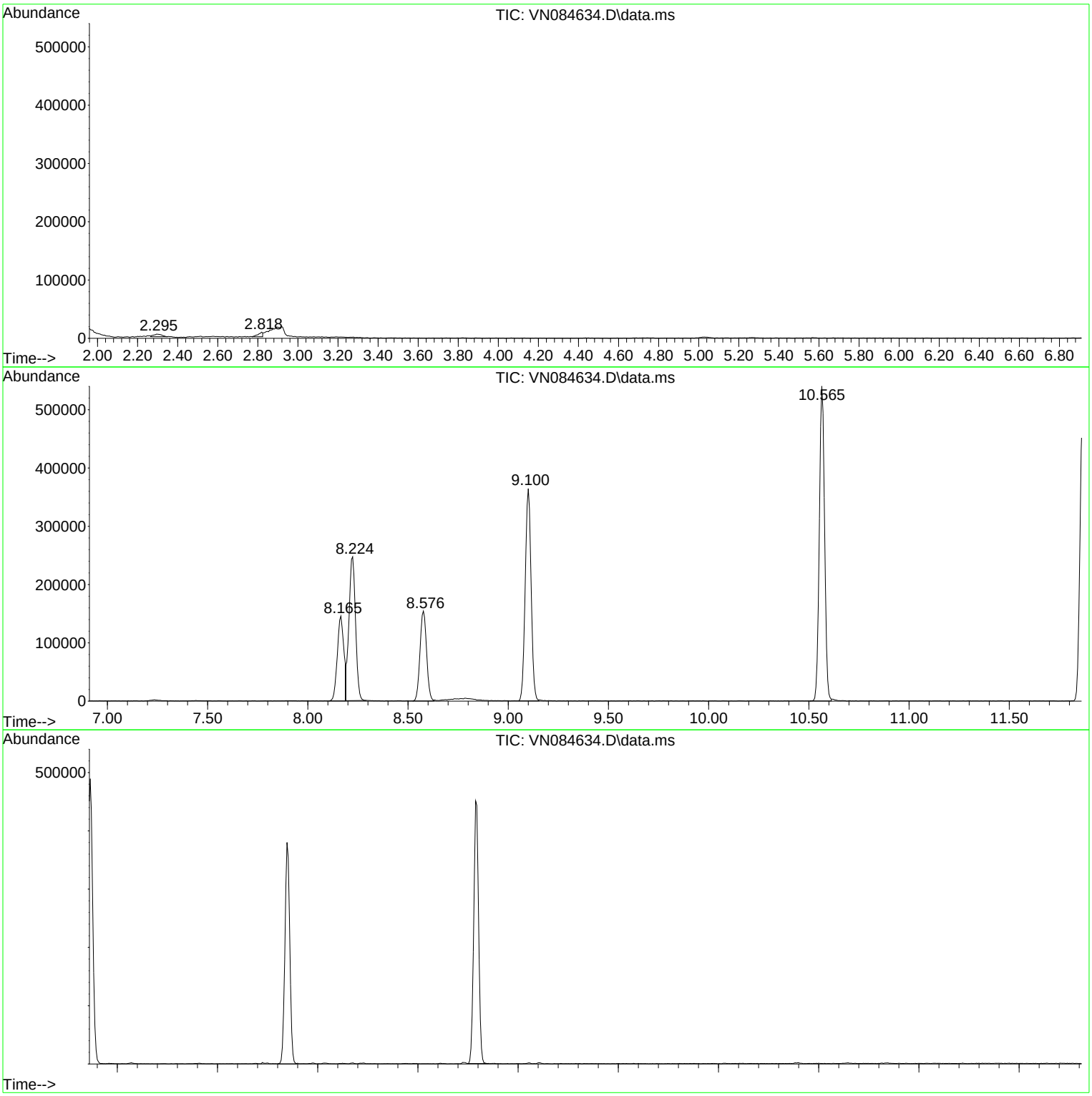
Sample Results: **VN084634.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084634.D
Acq On : 01 Nov 2024 13:20
Operator : JC\MD
Sample : P4658-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084634.D
Acq On : 01 Nov 2024 13:20
Operator : JC\MD
Sample : P4658-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084634.D
Acq On : 01 Nov 2024 13:20
Operator : JC\MD
Sample : P4658-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

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

CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG No.: P4658

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.571	0.552	0.552	0.598	0.594	0.581	0.575	3.4
Chloromethane	0.658	0.672	0.725	0.871	0.995	1.789	0.952	45.2
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
Bromomethane	0.292	0.296	0.310	0.336	0.405		0.328	14.2
Chloroethane	0.378	0.376	0.413	0.426	0.475	0.863	0.488	38.3
Trichlorofluoromethane	0.971	0.959	1.017	1.022	1.070	1.071	1.018	4.7
1,1,2-Trichlorotrifluoroethane	0.566	0.557	0.571	0.585	0.588	0.586	0.575	2.2
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
Acetone	0.209	0.204	0.213	0.223	0.241	0.338	0.238	21.3
Carbon Disulfide	1.604	1.603	1.700	1.714	1.784	2.117	1.753	10.9
Methyl tert-butyl Ether	1.773	1.758	1.802	1.779	1.786	1.572	1.745	4.9
Methyl Acetate	0.731	0.749	0.954	1.044	1.266	2.291	1.172	49.7
Methylene Chloride	0.604	0.602	0.633	0.658	0.714	0.600	0.635	7.1
trans-1,2-Dichloroethene	0.565	0.563	0.596	0.600	0.584	0.601	0.585	2.9
1,1-Dichloroethane	1.067	1.066	1.114	1.127	1.203	1.033	1.102	5.5
Cyclohexane	0.956	0.938	0.956	1.043	1.093		0.997	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
cis-1,2-Dichloroethene	0.675	0.662	0.697	0.685	0.705	0.673	0.683	2.4
Bromochloromethane	0.483	0.511	0.388	0.415	0.408	0.429	0.439	10.8
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
1,1,1-Trichloroethane	1.000	0.991	1.046	1.073	1.032	0.980	1.021	3.5
Methylcyclohexane	0.546	0.509	0.495	0.487	0.458	0.371	0.478	12.5
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
1,2-Dichloropropane	0.356	0.348	0.358	0.357	0.373	0.330	0.354	4
Bromodichloromethane	0.528	0.521	0.526	0.522	0.529	0.530	0.526	0.7
4-Methyl-2-Pentanone	0.424	0.423	0.416	0.417	0.412	0.344	0.406	7.6
Toluene	0.923	0.899	0.919	0.902	0.891	0.757	0.882	7.1

* 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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG No.: P4658

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.552	0.543	0.538	0.532	0.547	0.555	0.544	1.6
cis-1,3-Dichloropropene	0.592	0.581	0.582	0.569	0.584	0.548	0.576	2.7
1,1,2-Trichloroethane	0.336	0.329	0.334	0.342	0.342	0.309	0.332	3.7
2-Hexanone	0.314	0.312	0.301	0.297	0.294	0.256	0.296	7.1
Dibromochloromethane	0.404	0.394	0.391	0.393	0.377	0.312	0.378	8.9
1,2-Dibromoethane	0.340	0.333	0.341	0.335	0.355	0.336	0.340	2.4
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9
Ethyl Benzene	1.957	1.891	1.928	1.880	1.849	1.697	1.867	4.9
m/p-Xylenes	0.737	0.728	0.737	0.701	0.683	0.654	0.707	4.8
o-Xylene	0.703	0.690	0.701	0.679	0.645	0.550	0.661	8.9
Styrene	1.223	1.205	1.206	1.144	1.093	1.050	1.154	6.1
Bromoform	0.287	0.295	0.298	0.289	0.302	0.286	0.293	2.3
Isopropylbenzene	3.558	3.570	3.701	3.605	3.402	3.188	3.504	5.2
1,1,2,2-Tetrachloroethane	1.052	1.073	1.163	1.190	1.317	1.222	1.170	8.4
1,3-Dichlorobenzene	1.642	1.668	1.770	1.802	1.884	2.264	1.838	12.3
1,4-Dichlorobenzene	1.646	1.674	1.782	1.867	1.879	2.773	1.937	21.7
1,2-Dichlorobenzene	1.601	1.618	1.748	1.732	1.879	2.021	1.766	9.1
1,2-Dibromo-3-Chloropropane	0.204	0.217	0.229	0.226	0.274	0.272	0.237	12.3
1,2,4-Trichlorobenzene	0.852	0.865	0.895	0.881	0.956	1.353	0.967	19.9
1,2,3-Trichlorobenzene	0.832	0.841	0.953	0.877	0.939	1.189	0.939	14.1
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3

* 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.

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024
Response Via : Initial Calibration

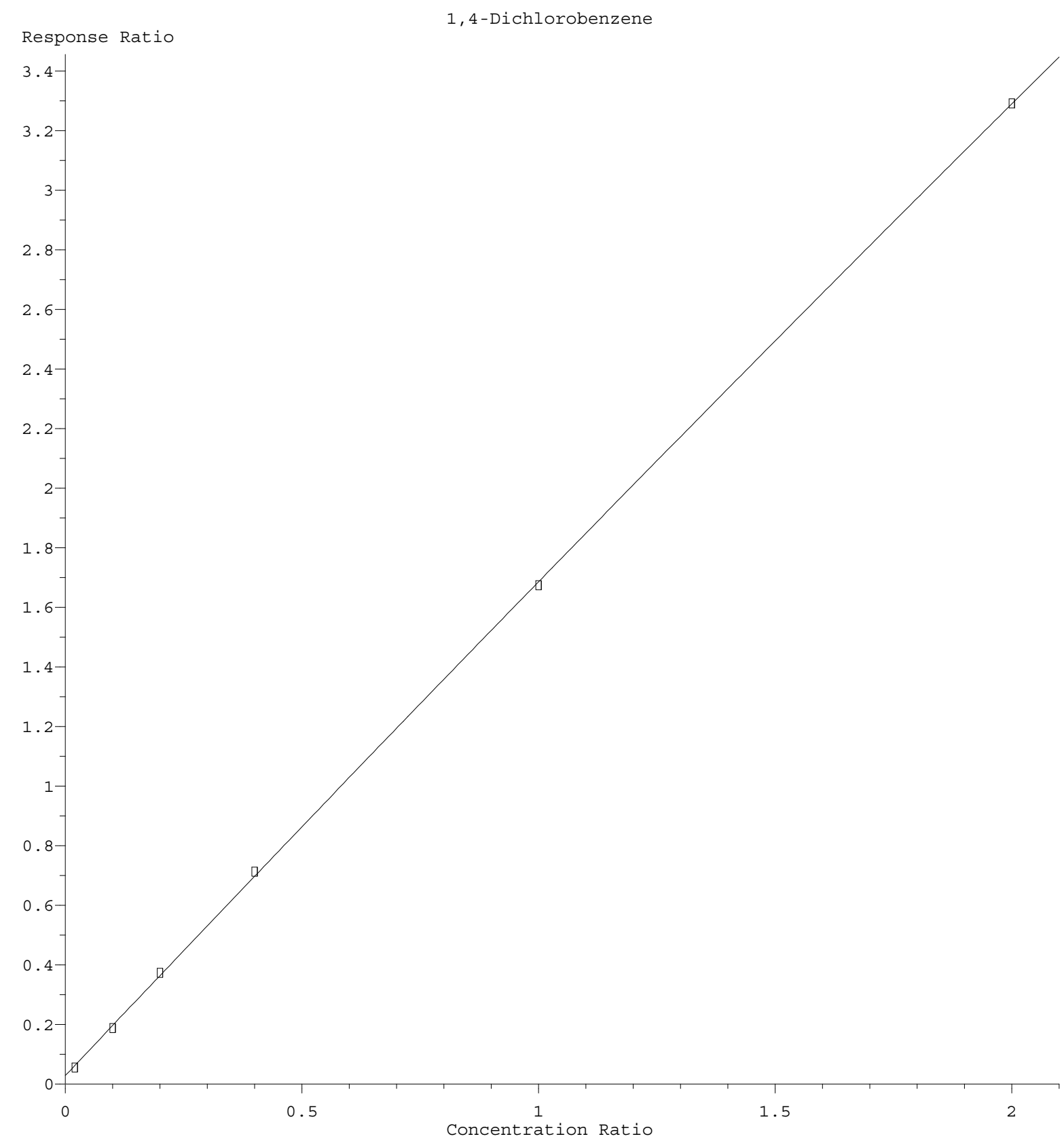
Calibration Files
1 =VN084575.D 5 =VN084574.D 10 =VN084573.D 20 =VN084572.D 50 =VN084571.D 100 =VN084570.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.581	0.594	0.598	0.552	0.552	0.571	0.575	3.43
3)	P	Chloromethane	1.789	0.995	0.871	0.725	0.672	0.658	0.952	45.21
4)	C	Vinyl Chloride	0.581	0.651	0.636	0.623	0.605	0.613	0.618	3.98#
5)	T	Bromomethane		0.405	0.336	0.310	0.296	0.292	0.328	14.16
6)	T	Chloroethane	0.863	0.475	0.426	0.413	0.376	0.378	0.488	38.29
7)	T	Trichlorofluor...	1.071	1.070	1.022	1.017	0.959	0.971	1.018	4.66
8)	T	Diethyl Ether	0.358	0.371	0.364	0.359	0.353	0.351	0.359	2.08
9)	T	1,1,2-Trichlor...	0.586	0.588	0.585	0.571	0.557	0.566	0.575	2.23
10)	T	Methyl Iodide		0.817	0.800	0.764	0.736	0.728	0.769	5.08
11)	T	Tert butyl alc...		0.118	0.100	0.090	0.086	0.082	0.095	15.11
12)	CM	1,1-Dichloroet...	0.644	0.552	0.575	0.560	0.538	0.548	0.569	6.78#
13)	T	Acrolein		0.104	0.096	0.101	0.088	0.086	0.095	8.16
14)	T	Allyl chloride	0.849	0.977	0.925	0.939	0.917	0.934	0.923	4.56
15)	T	Acrylonitrile	0.263	0.294	0.282	0.282	0.271	0.264	0.276	4.42
16)	T	Acetone	0.338	0.241	0.223	0.213	0.204	0.209	0.238	21.31
17)	T	Carbon Disulfide	2.117	1.784	1.714	1.700	1.603	1.604	1.753	10.90
18)	T	Methyl Acetate	2.291	1.266	1.044	0.954	0.749	0.731	1.172	49.71
19)	T	Methyl tert-bu...	1.572	1.786	1.779	1.802	1.758	1.773	1.745	4.92
20)	T	Methylene Chlo...	0.600	0.714	0.658	0.633	0.602	0.604	0.635	7.09
21)	T	trans-1,2-Dich...	0.601	0.584	0.600	0.596	0.563	0.565	0.585	2.94
22)	T	Diisopropyl ether	1.623	1.843	1.909	1.921	1.855	1.858	1.835	5.91
23)	T	Vinyl Acetate	1.090	1.297	1.298	1.306	1.299	1.303	1.265	6.81
24)	P	1,1-Dichloroet...	1.033	1.203	1.127	1.114	1.066	1.067	1.102	5.49
25)	T	2-Butanone	0.334	0.370	0.338	0.348	0.315	0.316	0.337	6.14
26)	T	2,2-Dichloropr...	0.933	0.959	0.978	0.974	0.941	0.968	0.959	1.93
27)	T	cis-1,2-Dichlo...	0.673	0.705	0.685	0.697	0.662	0.675	0.683	2.38
28)	T	Bromochloromet...	0.429	0.408	0.415	0.388	0.511	0.483	0.439	10.79
29)	T	Tetrahydrofuran	0.197	0.236	0.234	0.231	0.222	0.221	0.224	6.52
30)	C	Chloroform	1.025	1.222	1.154	1.142	1.086	1.099	1.121	6.02#
31)	T	Cyclohexane		1.093	1.043	0.956	0.938	0.956	0.997	6.75
32)	T	1,1,1-Trichlor...	0.980	1.032	1.073	1.046	0.991	1.000	1.021	3.53
33)	S	1,2-Dichloroet...		0.771	0.722	0.708	0.721	0.689	0.722	4.20
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.353	0.336	0.326	0.344	0.334	0.338	3.07
36)	T	1,1-Dichloropr...	0.474	0.477	0.468	0.471	0.451	0.476	0.469	2.02
37)	T	Ethyl Acetate	0.410	0.466	0.404	0.429	0.422	0.424	0.426	5.14
38)	T	Carbon Tetrach...	0.488	0.537	0.548	0.532	0.514	0.530	0.525	4.04
39)	T	Methylcyclohexane	0.371	0.458	0.487	0.495	0.509	0.546	0.478	12.46
40)	TM	Benzene	1.540	1.546	1.507	1.509	1.448	1.494	1.507	2.35
41)	T	Methacrylonitrile	0.184	0.238	0.232	0.239	0.246	0.235	0.229	9.89
42)	TM	1,2-Dichloroet...	0.459	0.503	0.492	0.493	0.494	0.488	0.488	3.10
43)	T	Isopropyl Acetate	1.297	1.009	0.895	0.820	0.756	0.786	0.927	21.85
44)	TM	Trichloroethene	0.387	0.341	0.338	0.345	0.335	0.339	0.348	5.66
45)	C	1,2-Dichloropr...	0.330	0.373	0.357	0.358	0.348	0.356	0.354	3.95#
46)	T	Dibromomethane	0.247	0.260	0.244	0.257	0.244	0.245	0.250	2.89
47)	T	Bromodichlorom...	0.530	0.529	0.522	0.526	0.521	0.528	0.526	0.70
48)	T	Methyl methacr...	0.277	0.335	0.336	0.339	0.346	0.355	0.331	8.32
49)	T	1,4-Dioxane	0.005	0.006	0.006	0.006	0.006	0.006	0.006	8.90
50)	S	Toluene-d8		1.217	1.231	1.216	1.303	1.267	1.247	3.02
51)	T	4-Methyl-2-Pen...	0.344	0.412	0.417	0.416	0.423	0.424	0.406	7.59
52)	CM	Toluene	0.757	0.891	0.902	0.919	0.899	0.923	0.882	7.07#
53)	T	t-1,3-Dichloro...	0.555	0.547	0.532	0.538	0.543	0.552	0.544	1.60
54)	T	cis-1,3-Dichlo...	0.548	0.584	0.569	0.582	0.581	0.592	0.576	2.69
55)	T	1,1,2-Trichlor...	0.309	0.342	0.342	0.334	0.329	0.336	0.332	3.72

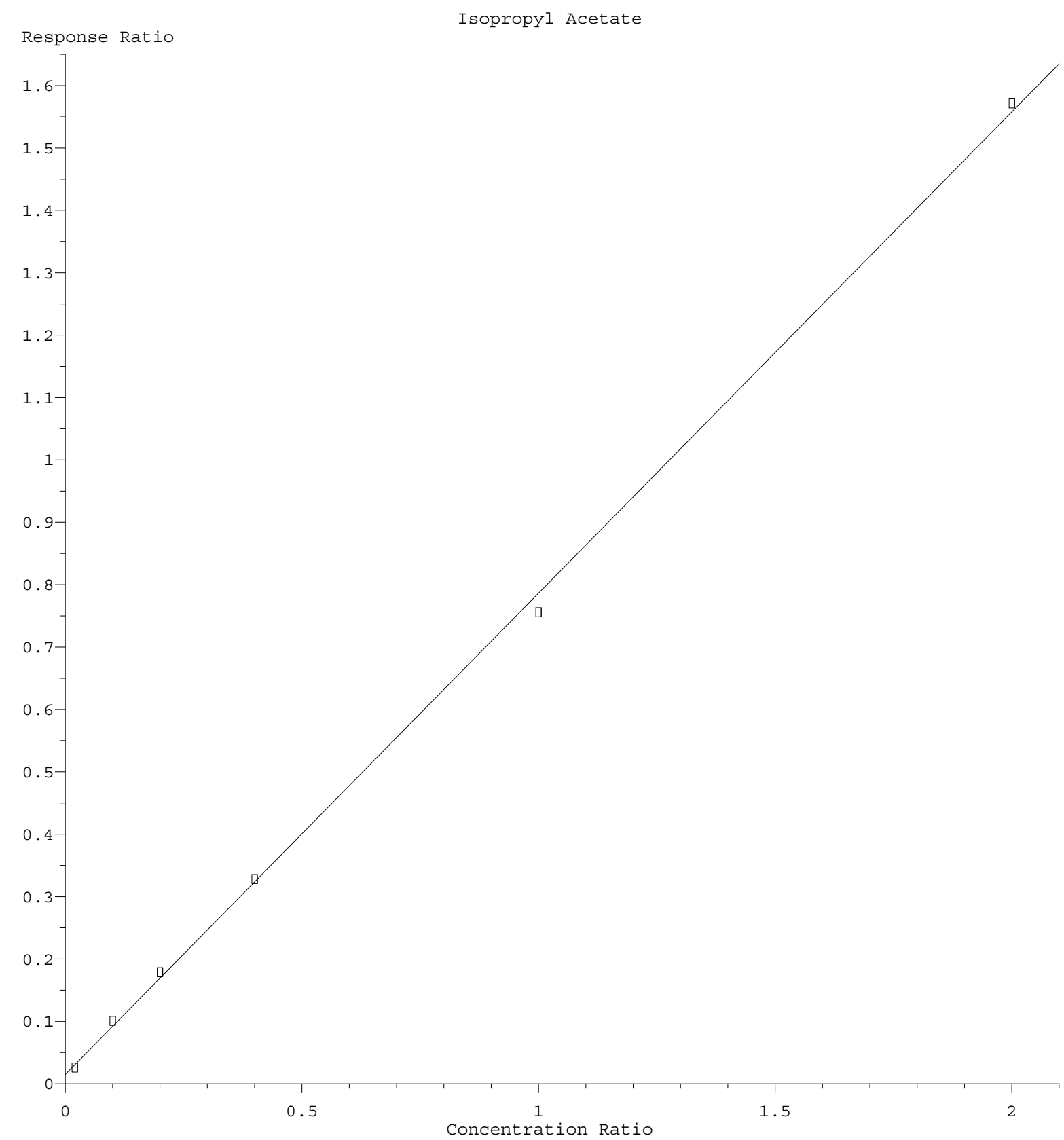
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N103024W.M

56)	T	Ethyl methacry...	0.371	0.449	0.477	0.495	0.539	0.550	0.480	13.66
57)	T	1,3-Dichloropr...	0.527	0.598	0.573	0.579	0.565	0.577	0.570	4.16
58)	T	2-Chloroethyl ...	0.167	0.202	0.214	0.229	0.262	0.275	0.225	17.62
59)	T	2-Hexanone	0.256	0.294	0.297	0.301	0.312	0.314	0.296	7.11
60)	T	Dibromochlorom...	0.312	0.377	0.393	0.391	0.394	0.404	0.378	8.92
61)	T	1,2-Dibromoethane	0.336	0.355	0.335	0.341	0.333	0.340	0.340	2.38
62)	S	4-Bromofluorob...		0.454	0.451	0.450	0.493	0.481	0.466	4.26
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.325	0.351	0.347	0.333	0.313	0.326	0.333	4.29
65)	PM	Chlorobenzene	1.146	1.164	1.123	1.149	1.061	1.068	1.119	3.93
66)	T	1,1,1,2-Tetrac...	0.399	0.404	0.390	0.392	0.375	0.375	0.389	3.01
67)	C	Ethyl Benzene	1.697	1.849	1.880	1.928	1.891	1.957	1.867	4.90#
68)	T	m/p-Xylenes	0.654	0.683	0.701	0.737	0.728	0.737	0.707	4.76
69)	T	o-Xylene	0.550	0.645	0.679	0.701	0.690	0.703	0.661	8.89
70)	T	Styrene	1.050	1.093	1.144	1.206	1.205	1.223	1.154	6.11
71)	P	Bromoform	0.286	0.302	0.289	0.298	0.295	0.287	0.293	2.26
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.188	3.402	3.605	3.701	3.570	3.558	3.504	5.21
74)	T	N-amyl acetate	1.223	1.572	1.527	1.552	1.528	1.546	1.491	8.88
75)	P	1,1,2,2-Tetrac...	1.222	1.317	1.190	1.163	1.073	1.052	1.170	8.39
76)	T	1,2,3-Trichlor...	1.246	1.013	1.020	0.958	0.887	0.873	0.999	13.58
77)	T	Bromobenzene	1.114	0.931	0.943	0.921	0.883	0.860	0.942	9.52
78)	T	n-propylbenzene	3.621	4.041	4.188	4.316	4.236	4.233	4.106	6.19
79)	T	2-Chlorotoluene	2.601	2.746	2.700	2.848	2.621	2.581	2.683	3.82
80)	T	1,3,5-Trimethy...	2.418	2.765	3.038	3.099	3.068	3.037	2.904	9.19
81)	T	trans-1,4-Dich...		0.431	0.446	0.423	0.401	0.406	0.421	4.33
82)	T	4-Chlorotoluene	3.049	2.848	2.822	2.838	2.716	2.667	2.823	4.70
83)	T	tert-Butylbenzene	1.893	2.271	2.461	2.648	2.531	2.617	2.403	11.81
84)	T	1,2,4-Trimethy...	2.579	2.766	3.075	3.265	3.148	3.151	2.997	8.86
85)	T	sec-Butylbenzene	2.962	3.145	3.517	3.608	3.538	3.600	3.395	8.04
86)	T	p-Isopropyltol...	2.218	2.518	2.843	3.003	3.050	3.075	2.784	12.43
87)	T	1,3-Dichlorobe...	2.264	1.884	1.802	1.770	1.668	1.642	1.838	12.33
88)	T	1,4-Dichlorobe...	2.773	1.879	1.867	1.782	1.674	1.646	1.937	21.72
89)	T	n-Butylbenzene	2.747	2.454	2.457	2.623	2.619	2.728	2.605	4.88
90)	T	Hexachloroethane	0.681	0.626	0.633	0.617	0.589	0.578	0.621	5.88
91)	T	1,2-Dichlorobe...	2.021	1.879	1.732	1.748	1.618	1.601	1.766	9.07
92)	T	1,2-Dibromo-3-...	0.272	0.274	0.226	0.229	0.217	0.204	0.237	12.28
93)	T	1,2,4-Trichlor...	1.353	0.956	0.881	0.895	0.865	0.852	0.967	19.90
94)	T	Hexachlorobuta...	0.551	0.438	0.403	0.426	0.369	0.359	0.425	16.33
95)	T	Naphthalene	3.355	2.788	2.710	2.953	2.780	2.778	2.894	8.29
96)	T	1,2,3-Trichlor...	1.189	0.939	0.877	0.953	0.841	0.832	0.939	14.09

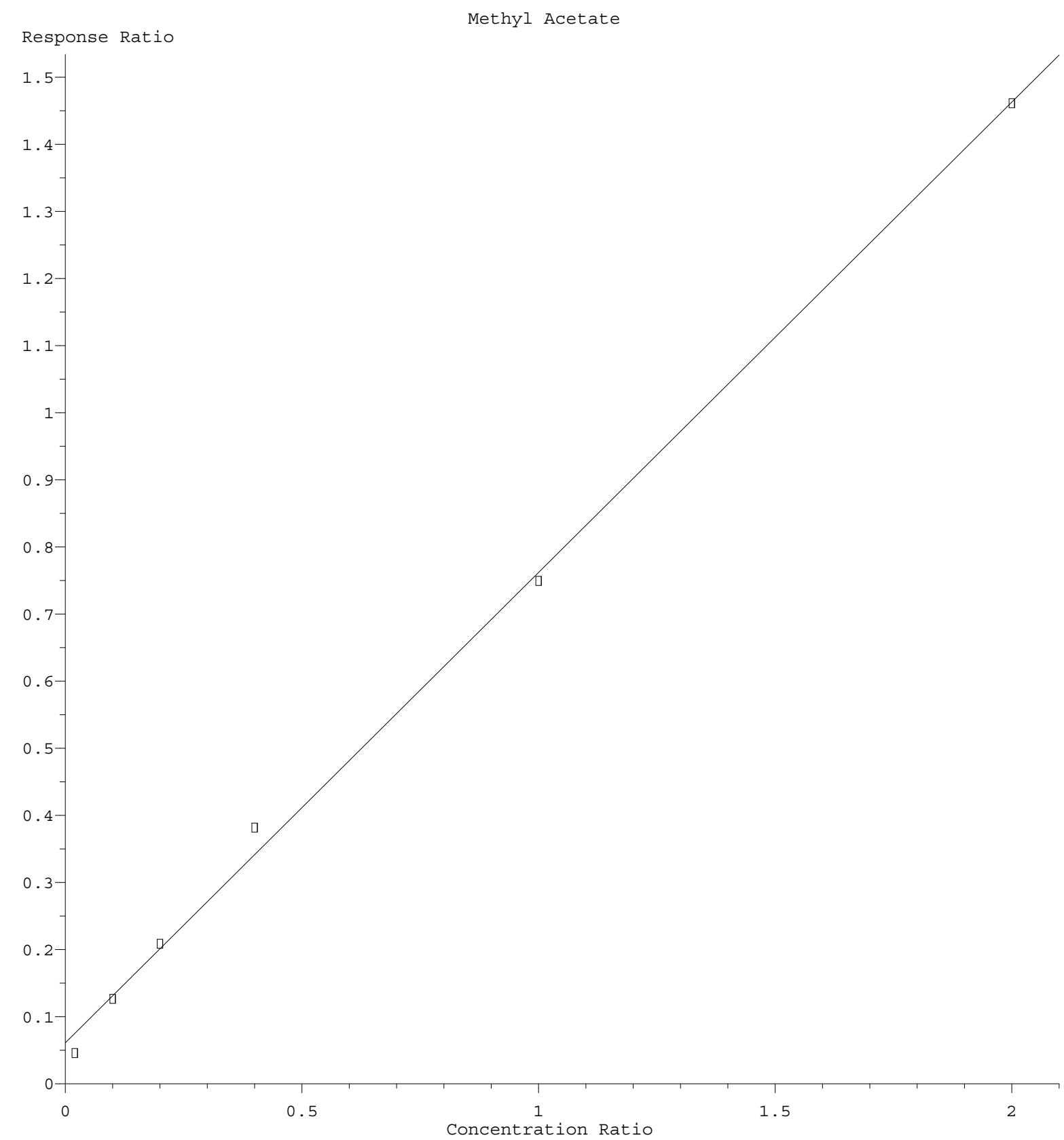
(#) = Out of Range



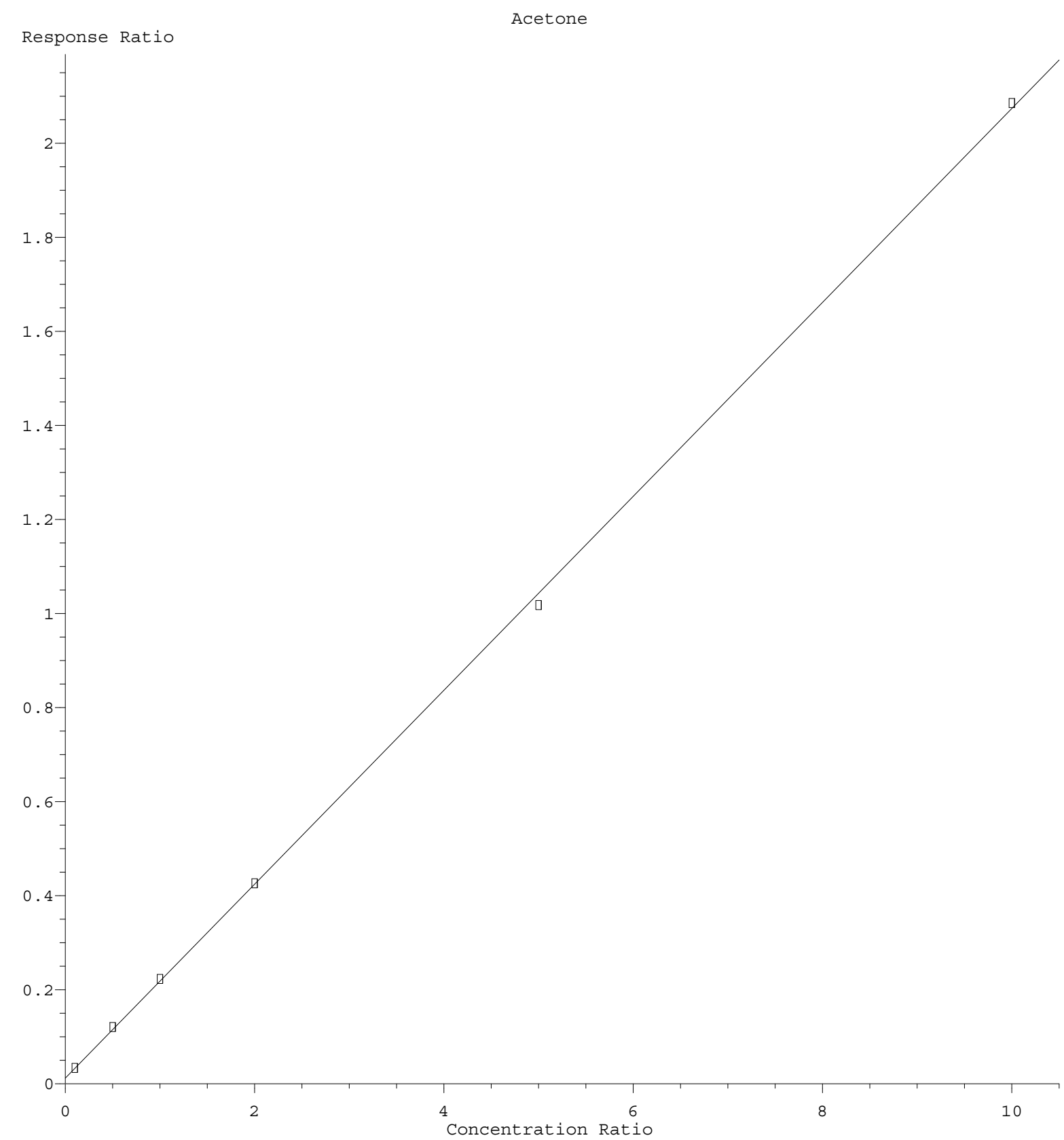
R = -2.647e-002 A*A + 1.683e+000 A + 2.851e-002
Coef of Det (r^2) = 0.999927 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



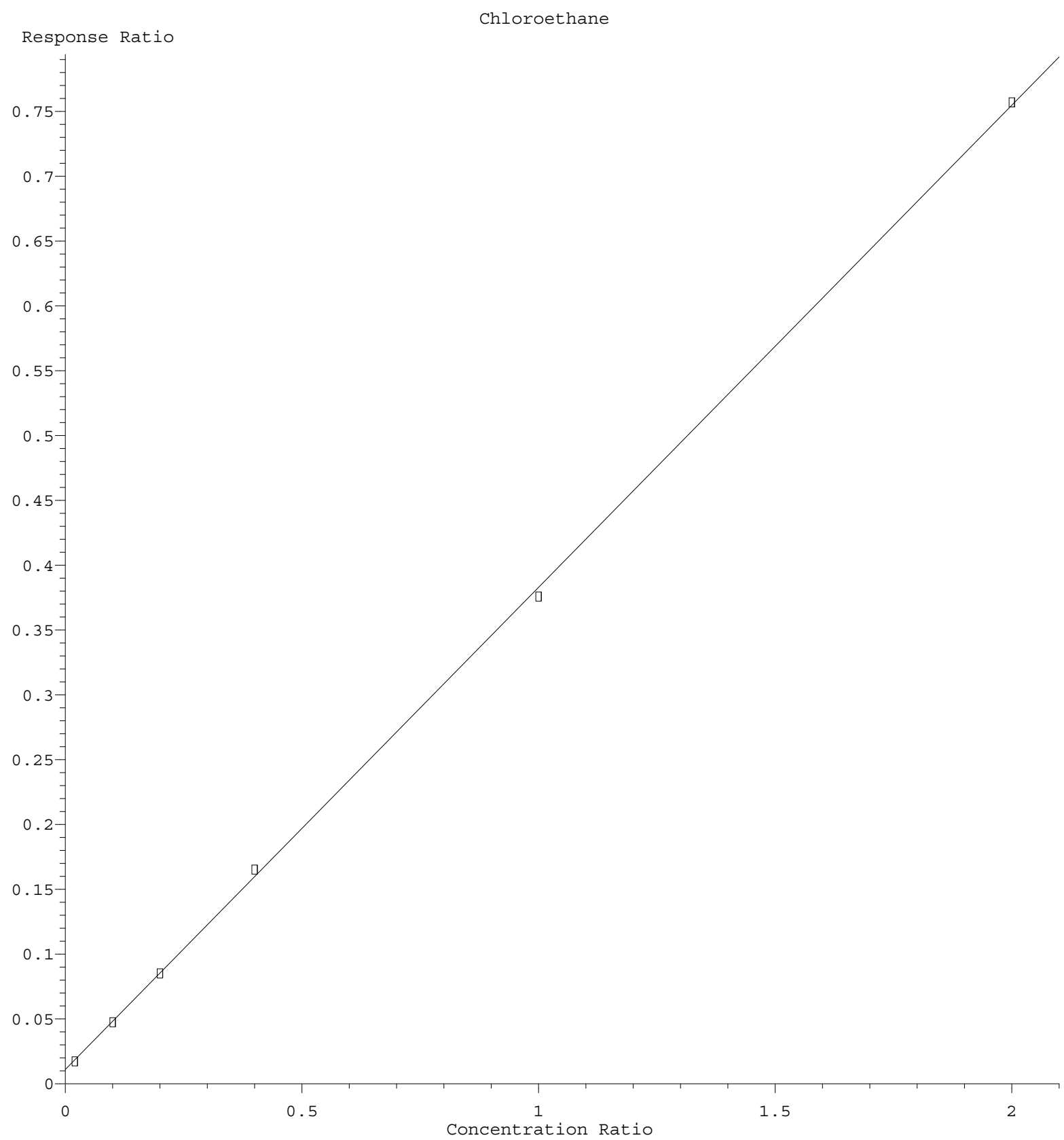
Response = 7.716e-001 * Amt + 1.519e-002
Coef of Det (r^2) = 0.999234 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



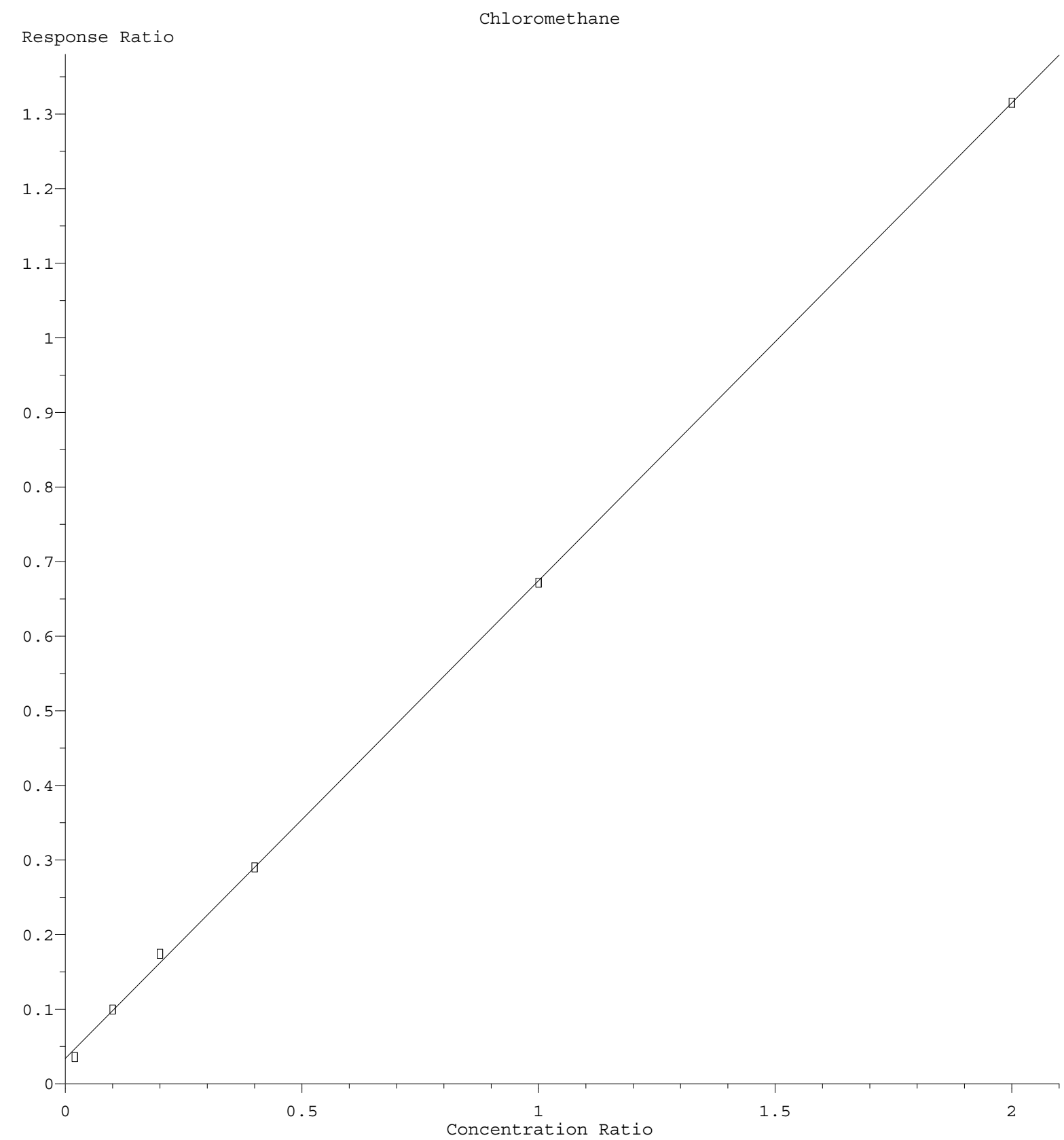
Response = 7.012e-001 * Amt + 6.084e-002
Coef of Det (r^2) = 0.998099 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 2.062e-001 * Amt + 1.190e-002
Coef of Det (r^2) = 0.999735 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 3.720e-001 * Amt + 1.067e-002
Coef of Det (r^2) = 0.999785 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 6.405e-001 * Amt + 3.399e-002
Coef of Det (r^2) = 0.999766 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	187429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	309230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	142702	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	258269	95.404	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 190.800%#			
35) Dibromofluoromethane	8.165	113	206417	98.617	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.240%#			
50) Toluene-d8	10.565	98	783727	101.646	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 203.300%#			
62) 4-Bromofluorobenzene	12.847	95	297647	103.292	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 206.580%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	214094	99.364	ug/l	93
3) Chloromethane	2.359	50	246492	100.015	ug/l	97
4) Vinyl Chloride	2.512	62	229760	99.144	ug/l	99
5) Bromomethane	2.901	94	109436	89.128	ug/l	97
6) Chloroethane	3.071	64	141883	100.310	ug/l	98
7) Trichlorofluoromethane	3.465	101	363937	95.335	ug/l	100
8) Diethyl Ether	3.953	74	131399	97.575	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	212244	98.394	ug/l	99
10) Methyl Iodide	4.577	142	272990	94.692	ug/l	96
11) Tert butyl alcohol	5.547	59	153595	429.840	ug/l	100
12) 1,1-Dichloroethene	4.324	96	205332	96.200	ug/l	98
13) Acrolein	4.171	56	161607	453.545	ug/l	100
14) Allyl chloride	5.012	41	350014	101.116	ug/l	92
15) Acrylonitrile	5.712	53	494070	477.613	ug/l	100
16) Acetone	4.424	43	390888	502.753	ug/l	98
17) Carbon Disulfide	4.700	76	601202	91.464	ug/l	99
18) Methyl Acetate	5.018	43	273870	99.857	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	664800	101.618	ug/l	99
20) Methylene Chloride	5.271	84	226231	95.017	ug/l	90
21) trans-1,2-Dichloroethene	5.777	96	211649	96.569	ug/l	93
22) Diisopropyl ether	6.665	45	696527	101.268	ug/l	99
23) Vinyl Acetate	6.600	43	2441301	514.697	ug/l	99
24) 1,1-Dichloroethane	6.559	63	399999	96.866	ug/l	98
25) 2-Butanone	7.483	43	591863	468.634	ug/l	98
26) 2,2-Dichloropropane	7.483	77	362927	100.979	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	252932	98.835	ug/l	96
28) Bromochloromethane	7.812	49	180881	109.944	ug/l	96
29) Tetrahydrofuran	7.835	42	415033	495.347	ug/l	97
30) Chloroform	7.959	83	412084	98.045	ug/l	100
31) Cyclohexane	8.253	56	358350	95.881	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	374940	98.012	ug/l	98
36) 1,1-Dichloropropene	8.365	75	294131	101.323	ug/l	99
37) Ethyl Acetate	7.559	43	262200	99.553	ug/l	98
38) Carbon Tetrachloride	8.359	117	327651	100.981	ug/l	98
39) Methylcyclohexane	9.600	83	337677	114.344	ug/l	97
40) Benzene	8.600	78	924038	99.119	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	145041	102.406 ug/l	95
42) 1,2-Dichloroethane	8.665	62	301932	100.005 ug/l	100
43) Isopropyl Acetate	8.688	43	485962	100.857 ug/l	99
44) Trichloroethene	9.347	130	209438	97.413 ug/l	98
45) 1,2-Dichloropropane	9.618	63	220258	100.718 ug/l	95
46) Dibromomethane	9.706	93	151661	98.281 ug/l	98
47) Bromodichloromethane	9.888	83	326466	100.364 ug/l #	96
48) Methyl methacrylate	9.677	41	219838	107.249 ug/l	98
49) 1,4-Dioxane	9.694	88	76189	2097.505 ug/l #	80
51) 4-Methyl-2-Pentanone	10.447	43	1312148	522.607 ug/l	99
52) Toluene	10.629	92	570832	104.696 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	341196	101.334 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	366358	102.804 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	207689	101.124 ug/l	97
56) Ethyl methacrylate	10.871	69	340367	114.573 ug/l	97
57) 1,3-Dichloropropane	11.165	76	357131	101.320 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	849817	611.330 ug/l	98
59) 2-Hexanone	11.194	43	971064	531.346 ug/l	97
60) Dibromochloromethane	11.359	129	249733	106.691 ug/l	99
61) 1,2-Dibromoethane	11.471	107	210043	99.870 ug/l	100
64) Tetrachloroethene	11.100	164	184478	98.169 ug/l	96
65) Chlorobenzene	11.888	112	603595	95.500 ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	212055	96.458 ug/l	99
67) Ethyl Benzene	11.965	91	1106035	104.837 ug/l	99
68) m/p-Xylenes	12.070	106	832448	208.419 ug/l	99
69) o-Xylene	12.400	106	397449	106.372 ug/l	100
70) Styrene	12.412	104	691175	106.042 ug/l	98
71) Bromoform	12.582	173	162189	98.044 ug/l #	97
73) Isopropylbenzene	12.694	105	1015352	101.533 ug/l	100
74) N-amyl acetate	12.494	43	441232	103.666 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	300162	89.924 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	249062m	88.446 ug/l	
77) Bromobenzene	12.982	156	245558	91.341 ug/l	94
78) n-propylbenzene	13.035	91	1208185	103.100 ug/l	98
79) 2-Chlorotoluene	13.123	91	736738	96.217 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	866736	104.573 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	115847	96.347 ug/l	98
82) 4-Chlorotoluene	13.217	91	761196	94.462 ug/l	99
83) tert-Butylbenzene	13.435	119	746926	108.888 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	899374	105.136 ug/l	99
85) sec-Butylbenzene	13.617	105	1027413	106.032 ug/l	99
86) p-Isopropyltoluene	13.729	119	877717	110.451 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	468620	89.320 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	469714	100.067 ug/l	98
89) n-Butylbenzene	14.053	91	778487	104.727 ug/l	100
90) Hexachloroethane	14.335	117	165030	93.123 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	456925	90.631 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	58247	86.136 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	243087	88.091 ug/l	99
94) Hexachlorobutadiene	15.500	225	102558	84.631 ug/l	99
95) Naphthalene	15.641	128	792903	95.997 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	237515	88.667 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

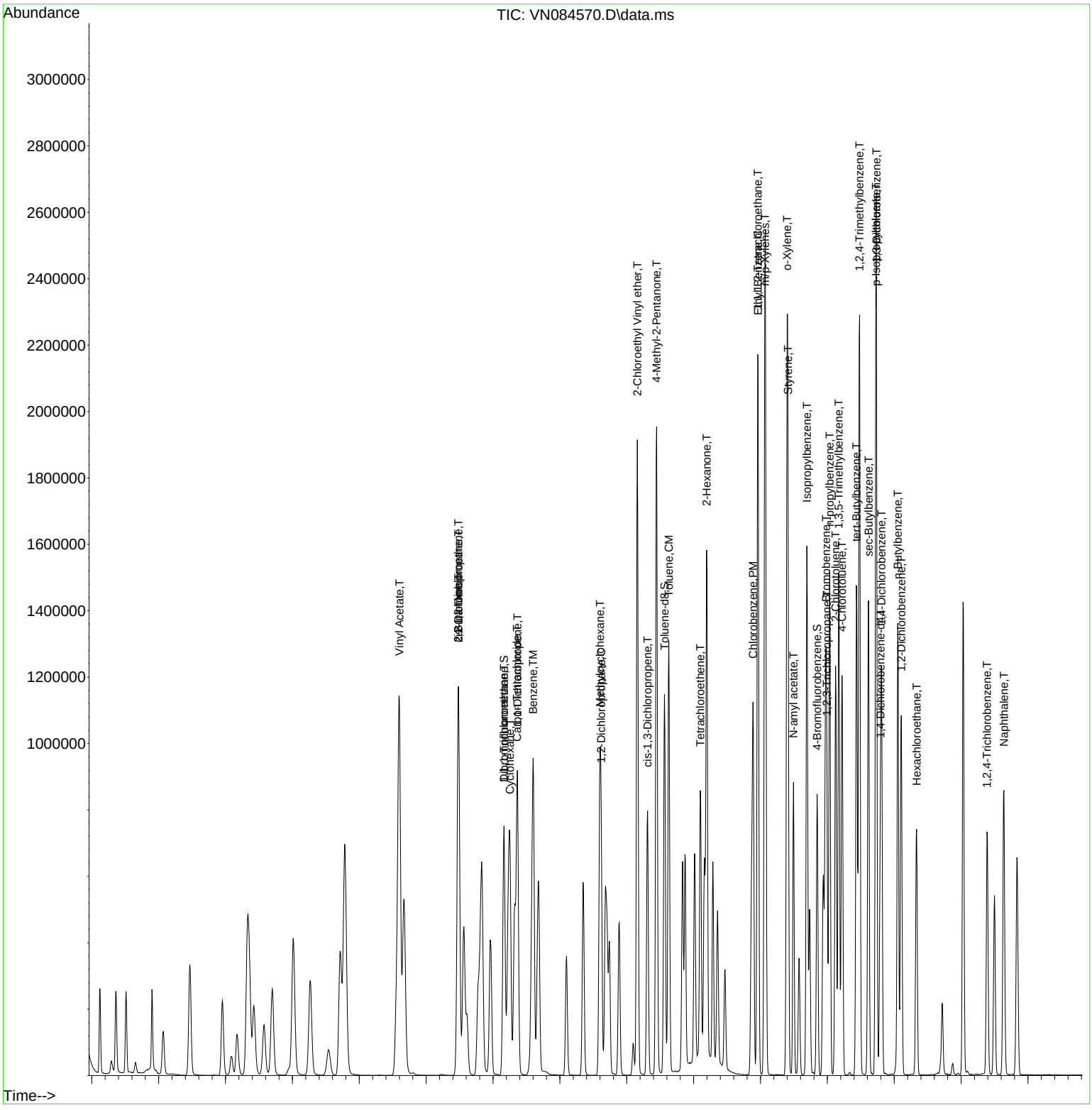
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	186594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138307	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134521	49.914	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.820%			
35) Dibromofluoromethane	8.165	113	107131	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	10.565	98	405874	52.247	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.500%			
62) 4-Bromofluorobenzene	12.847	95	153622	52.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	103092	48.061	ug/l	97
3) Chloromethane	2.365	50	125344	49.788	ug/l	95
4) Vinyl Chloride	2.512	62	112961	48.962	ug/l	95
5) Bromomethane	2.901	94	55194	45.153	ug/l	100
6) Chloroethane	3.071	64	70126	49.078	ug/l	96
7) Trichlorofluoromethane	3.471	101	178947	47.086	ug/l	97
8) Diethyl Ether	3.953	74	65946	49.190	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	103864	48.366	ug/l	98
10) Methyl Iodide	4.583	142	137274	47.829	ug/l	97
11) Tert butyl alcohol	5.536	59	80598	226.565	ug/l	100
12) 1,1-Dichloroethene	4.324	96	100445	47.270	ug/l	96
13) Acrolein	4.171	56	82129	231.524	ug/l	99
14) Allyl chloride	5.012	41	171045	49.635	ug/l	92
15) Acrylonitrile	5.718	53	252853	245.525	ug/l	98
16) Acetone	4.424	43	189949	243.925	ug/l	99
17) Carbon Disulfide	4.700	76	299041	45.698	ug/l	99
18) Methyl Acetate	5.024	43	139826	49.097	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	328099	50.376	ug/l	97
20) Methylene Chloride	5.271	84	112282	47.370	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	105050	48.146	ug/l	96
22) Diisopropyl ether	6.671	45	346126	50.549	ug/l	98
23) Vinyl Acetate	6.600	43	1212022	256.673	ug/l	99
24) 1,1-Dichloroethane	6.559	63	198817	48.362	ug/l	100
25) 2-Butanone	7.483	43	294207	233.994	ug/l	98
26) 2,2-Dichloropropane	7.483	77	175511	49.052	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123436	48.450	ug/l	97
28) Bromochloromethane	7.812	49	95269	58.166	ug/l	95
29) Tetrahydrofuran	7.835	42	206980	248.139	ug/l	97
30) Chloroform	7.965	83	202589	48.417	ug/l	98
31) Cyclohexane	8.253	56	175038	47.043	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	184986	48.573	ug/l	98
36) 1,1-Dichloropropene	8.365	75	140593	48.071	ug/l	99
37) Ethyl Acetate	7.553	43	131332	49.493	ug/l	99
38) Carbon Tetrachloride	8.359	117	160134	48.985	ug/l	97
39) Methylcyclohexane	9.600	83	158489	53.267	ug/l	99
40) Benzene	8.600	78	451074	48.024	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	76791	53.814 ug/l	97
42) 1,2-Dichloroethane	8.665	62	153960	50.614 ug/l	100
43) Isopropyl Acetate	8.688	43	235517	48.004 ug/l	99
44) Trichloroethene	9.353	130	104498	48.241 ug/l	98
45) 1,2-Dichloropropane	9.618	63	108302	49.154 ug/l	95
46) Dibromomethane	9.706	93	76019	48.895 ug/l	97
47) Bromodichloromethane	9.888	83	162307	49.525 ug/l	97
48) Methyl methacrylate	9.677	41	107828	52.212 ug/l	98
49) 1,4-Dioxane	9.694	88	37719	1030.669 ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	658351	260.254 ug/l	98
52) Toluene	10.629	92	280034	50.978 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	169085	49.843 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	180909	50.386 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	102401	49.487 ug/l	98
56) Ethyl methacrylate	10.871	69	168060	56.150 ug/l	96
57) 1,3-Dichloropropane	11.159	76	175929	49.539 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	407857	291.210 ug/l	97
59) 2-Hexanone	11.194	43	485391	263.615 ug/l	98
60) Dibromochloromethane	11.359	129	122816	52.078 ug/l	98
61) 1,2-Dibromoethane	11.465	107	103901	49.034 ug/l	98
64) Tetrachloroethene	11.100	164	87457	47.088 ug/l	96
65) Chlorobenzene	11.888	112	296199	47.416 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	104844	48.252 ug/l	99
67) Ethyl Benzene	11.965	91	528107	50.646 ug/l	100
68) m/p-Xylenes	12.070	106	406816	103.053 ug/l	98
69) o-Xylene	12.394	106	192710	52.183 ug/l	99
70) Styrene	12.412	104	336570	52.245 ug/l	99
71) Bromoform	12.576	173	82245	50.303 ug/l #	99
73) Isopropylbenzene	12.694	105	493742	50.942 ug/l	99
74) N-amyl acetate	12.494	43	211326	51.228 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148441	45.884 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	122649m	44.939 ug/l	
77) Bromobenzene	12.982	156	122062	46.847 ug/l	95
78) n-propylbenzene	13.035	91	585903	51.587 ug/l	100
79) 2-Chlorotoluene	13.123	91	362526	48.850 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	424332	52.823 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	55485	47.612 ug/l	92
82) 4-Chlorotoluene	13.217	91	375636	48.097 ug/l	99
83) tert-Butylbenzene	13.435	119	350031	52.649 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	435421	52.518 ug/l	99
85) sec-Butylbenzene	13.612	105	489305	52.102 ug/l	100
86) p-Isopropyltoluene	13.729	119	421834	54.770 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	230686	45.366 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	231568	49.658 ug/l	98
89) n-Butylbenzene	14.053	91	362215	50.276 ug/l	99
90) Hexachloroethane	14.335	117	81515	47.459 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	223772	45.796 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	29987	45.754 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	119579	44.711 ug/l	99
94) Hexachlorobutadiene	15.500	225	51033	43.451 ug/l	98
95) Naphthalene	15.635	128	384553	48.037 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116341	44.812 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

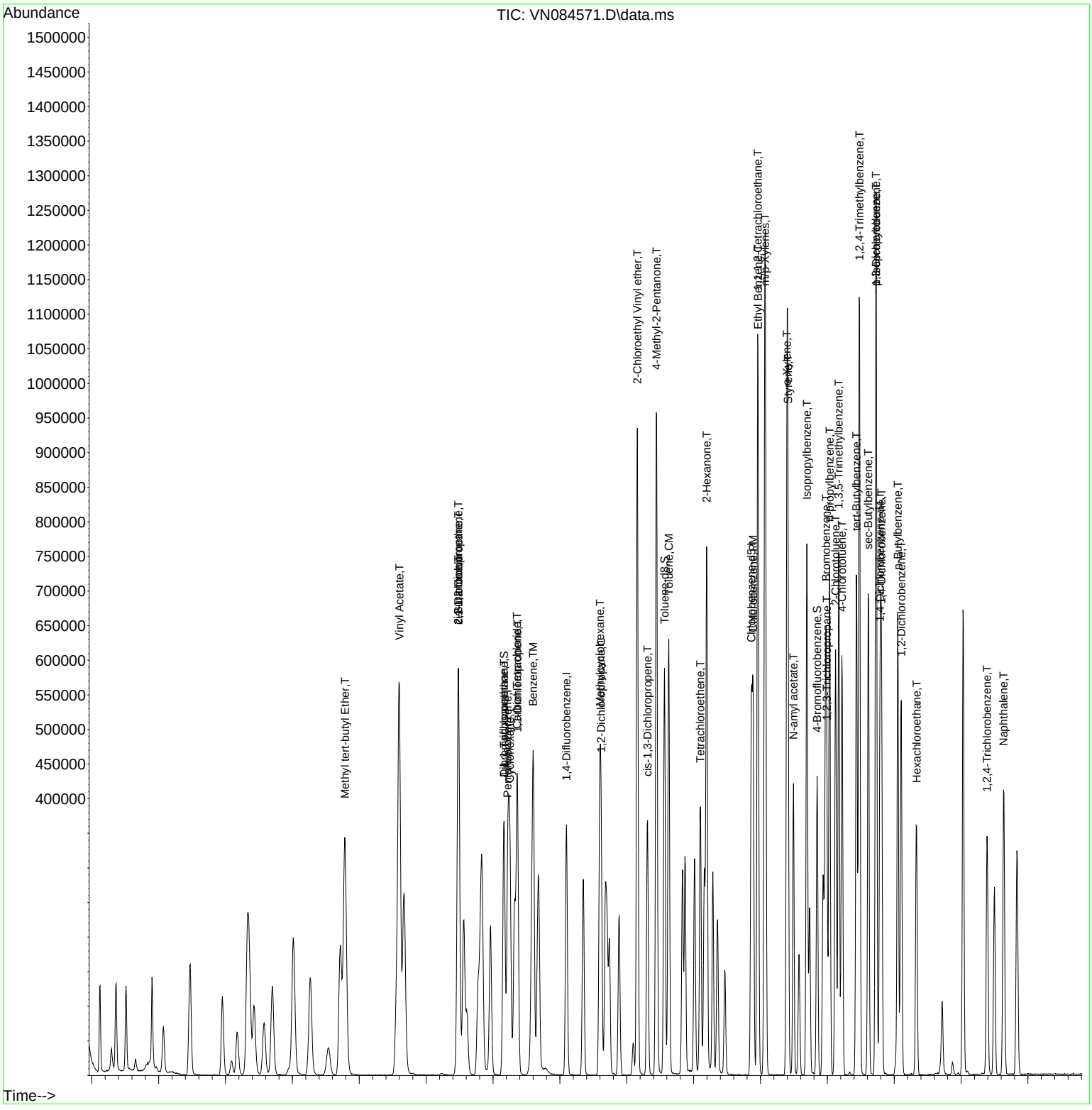
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	187576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	53102	19.600	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.200%#		
35) Dibromofluoromethane	8.165	113	41686	19.252	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.500%#		
50) Toluene-d8	10.565	98	155563	19.504	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.000%#		
62) 4-Bromofluorobenzene	12.847	95	57622	19.330	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.660%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	41443	19.219	ug/l	99
3) Chloromethane	2.359	50	54414	19.993	ug/l	97
4) Vinyl Chloride	2.512	62	46710	20.140	ug/l	93
5) Bromomethane	2.901	94	23244	18.916	ug/l	100
6) Chloroethane	3.042	64	30992	20.772	ug/l	94
7) Trichlorofluoromethane	3.442	101	76339	19.982	ug/l	96
8) Diethyl Ether	3.948	74	26904	19.963	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.342	101	42830	19.840	ug/l	99
10) Methyl Iodide	4.565	142	57315	19.865	ug/l	96
11) Tert butyl alcohol	5.559	59	33927	94.871	ug/l	99
12) 1,1-Dichloroethene	4.318	96	41980	19.653	ug/l	89
13) Acrolein	4.171	56	38007	106.582	ug/l	96
14) Allyl chloride	5.006	41	70420	20.328	ug/l	92
15) Acrylonitrile	5.718	53	105912	102.304	ug/l	97
16) Acetone	4.430	43	79971	100.481	ug/l	99
17) Carbon Disulfide	4.689	76	127521	19.385	ug/l	98
18) Methyl Acetate	5.024	43	71604	22.882	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	135170	20.645	ug/l	100
20) Methylene Chloride	5.271	84	47467	19.921	ug/l	88
21) trans-1,2-Dichloroethene	5.771	96	44697	20.378	ug/l	93
22) Diisopropyl ether	6.671	45	144115	20.937	ug/l	97
23) Vinyl Acetate	6.594	43	490034	103.232	ug/l	100
24) 1,1-Dichloroethane	6.559	63	83555	20.218	ug/l	97
25) 2-Butanone	7.483	43	130541	103.281	ug/l	99
26) 2,2-Dichloropropane	7.483	77	73066	20.313	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	52279	20.412	ug/l	97
28) Bromochloromethane	7.806	49	29146	17.702	ug/l	91
29) Tetrahydrofuran	7.836	42	86837	103.560	ug/l	97
30) Chloroform	7.959	83	85675	20.368	ug/l	100
31) Cyclohexane	8.247	56	71698	19.169	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	78458	20.493	ug/l	97
36) 1,1-Dichloropropene	8.371	75	60208	20.050	ug/l	99
37) Ethyl Acetate	7.559	43	54942	20.165	ug/l	97
38) Carbon Tetrachloride	8.359	117	68076	20.282	ug/l	98
39) Methylcyclohexane	9.600	83	63305	20.722	ug/l	93
40) Benzene	8.600	78	193129	20.026	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	30596	20.882 ug/l		97
42) 1,2-Dichloroethane	8.665	62	63026	20.180 ug/l		99
43) Isopropyl Acetate	8.688	43	104951	20.277 ug/l		98
44) Trichloroethene	9.347	130	44176	19.862 ug/l		99
45) 1,2-Dichloropropane	9.618	63	45764	20.229 ug/l		93
46) Dibromomethane	9.706	93	32857	20.583 ug/l		99
47) Bromodichloromethane	9.888	83	67288	19.997 ug/l	#	98
48) Methyl methacrylate	9.682	41	43398	20.466 ug/l		97
49) 1,4-Dioxane	9.700	88	15417	410.291 ug/l	#	79
51) 4-Methyl-2-Pentanone	10.447	43	266010	102.417 ug/l		100
52) Toluene	10.629	92	117530	20.838 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	68847	19.766 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	74498	20.208 ug/l		95
55) 1,1,2-Trichloroethane	11.012	97	42791	20.141 ug/l		95
56) Ethyl methacrylate	10.871	69	63347	20.613 ug/l		96
57) 1,3-Dichloropropane	11.159	76	74082	20.317 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	146372	101.786 ug/l		98
59) 2-Hexanone	11.194	43	192335	101.735 ug/l		99
60) Dibromochloromethane	11.359	129	50039	20.665 ug/l		99
61) 1,2-Dibromoethane	11.465	107	43666	20.070 ug/l		100
64) Tetrachloroethene	11.106	164	36798	20.054 ug/l		92
65) Chlorobenzene	11.888	112	126753	20.539 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	43201	20.125 ug/l		99
67) Ethyl Benzene	11.965	91	212737	20.651 ug/l		99
68) m/p-Xylenes	12.071	106	162754	41.732 ug/l		99
69) o-Xylene	12.400	106	77396	21.214 ug/l		99
70) Styrene	12.412	104	133059	20.907 ug/l		96
71) Bromoform	12.576	173	32901	20.369 ug/l	#	99
73) Isopropylbenzene	12.694	105	193023	21.127 ug/l		100
74) N-amyl acetate	12.494	43	80939	20.815 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	60645	19.886 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	49947m	19.414 ug/l		
77) Bromobenzene	12.976	156	48017	19.550 ug/l		97
78) n-propylbenzene	13.035	91	225085	21.024 ug/l		99
79) 2-Chlorotoluene	13.123	91	148533	21.233 ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	161619	21.343 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	22047	20.070 ug/l	#	85
82) 4-Chlorotoluene	13.218	91	147989	20.102 ug/l		100
83) tert-Butylbenzene	13.435	119	138079	22.033 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	170246	21.783 ug/l		99
85) sec-Butylbenzene	13.618	105	188158	21.255 ug/l		100
86) p-Isopropyltoluene	13.729	119	156598	21.569 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	92310	19.258 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	92940	20.458 ug/l		99
89) n-Butylbenzene	14.053	91	136771	20.139 ug/l		99
90) Hexachloroethane	14.329	117	32199	19.887 ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	91138	19.787 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11962	19.362 ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	46698	18.523 ug/l		96
94) Hexachlorobutadiene	15.500	225	22216	20.066 ug/l		96
95) Naphthalene	15.635	128	153972	20.404 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	49699	20.308 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

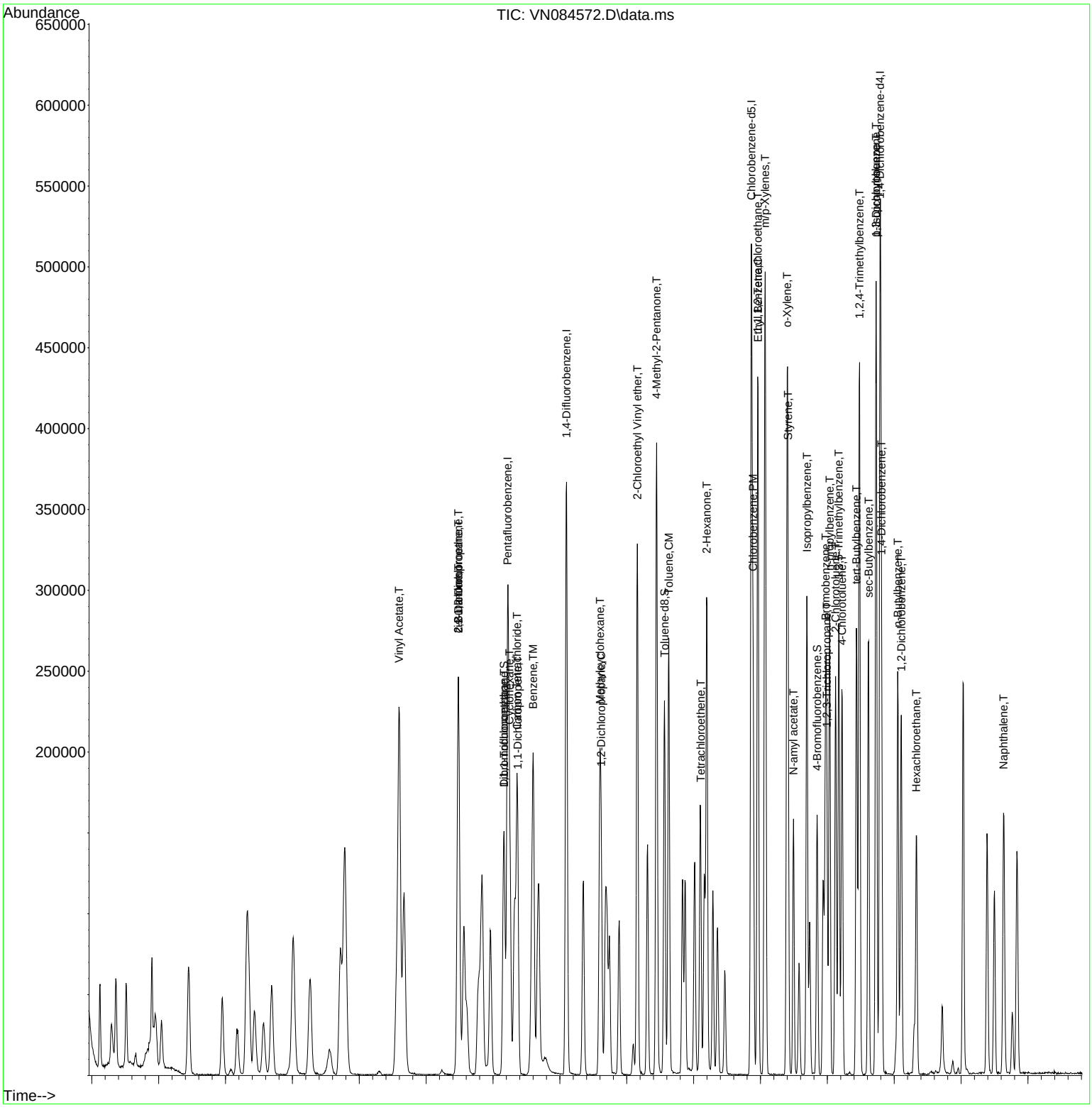
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	179863	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	312244	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	270408	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127178	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.583	65	25986	10.003	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 20.000%#				
35) Dibromofluoromethane	8.159	113	20969	9.921	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 19.840%#				
50) Toluene-d8	10.565	98	76892	9.876	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 19.760%#				
62) 4-Bromofluorobenzene	12.847	95	28191	9.689	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 19.380%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	21501	10.399	ug/l		96
3) Chloromethane	2.359	50	31342	10.950	ug/l		98
4) Vinyl Chloride	2.512	62	22896	10.295	ug/l		93
5) Bromomethane	2.901	94	12071	10.245	ug/l		95
6) Chloroethane	3.059	64	15315	10.010	ug/l	#	83
7) Trichlorofluoromethane	3.459	101	36747	10.031	ug/l		99
8) Diethyl Ether	3.953	74	13090	10.129	ug/l		100
9) 1,1,2-Trichlorotrifluo...	4.353	101	21028	10.158	ug/l		98
10) Methyl Iodide	4.577	142	28795	10.408	ug/l		97
11) Tert butyl alcohol	5.542	59	17899	52.198	ug/l	#	85
12) 1,1-Dichloroethene	4.324	96	20669	10.091	ug/l		87
13) Acrolein	4.177	56	17284	50.547	ug/l		99
14) Allyl chloride	5.012	41	33287	10.021	ug/l		93
15) Acrylonitrile	5.718	53	50731	51.104	ug/l		98
16) Acetone	4.430	43	40100	51.168	ug/l		93
17) Carbon Disulfide	4.695	76	61652	9.774	ug/l		97
18) Methyl Acetate	5.030	43	37538	10.544	ug/l		100
19) Methyl tert-butyl Ether	5.789	73	64007	10.195	ug/l		97
20) Methylene Chloride	5.265	84	23684	10.366	ug/l		94
21) trans-1,2-Dichloroethene	5.771	96	21581	10.261	ug/l		84
22) Diisopropyl ether	6.671	45	68672	10.404	ug/l	#	97
23) Vinyl Acetate	6.600	43	233407	51.279	ug/l		99
24) 1,1-Dichloroethane	6.565	63	40556	10.234	ug/l	#	95
25) 2-Butanone	7.483	43	60876	50.229	ug/l		96
26) 2,2-Dichloropropane	7.483	77	35189	10.203	ug/l		100
27) cis-1,2-Dichloroethene	7.483	96	24626	10.028	ug/l		99
28) Bromochloromethane	7.806	49	14918	9.449	ug/l	#	15
29) Tetrahydrofuran	7.841	42	42072	52.326	ug/l		99
30) Chloroform	7.965	83	41496	10.288	ug/l		97
31) Cyclohexane	8.247	56	37514	10.460	ug/l		96
32) 1,1,1-Trichloroethane	8.165	97	38612	10.518	ug/l		94
36) 1,1-Dichloropropene	8.371	75	29218	9.968	ug/l		99
37) Ethyl Acetate	7.559	43	25249	9.494	ug/l		96
38) Carbon Tetrachloride	8.359	117	34214	10.443	ug/l		95
39) Methylcyclohexane	9.600	83	30390	10.191	ug/l		96
40) Benzene	8.606	78	94121	9.999	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	14485	10.128 ug/l		96
42) 1,2-Dichloroethane	8.671	62	30752	10.087 ug/l		99
43) Isopropyl Acetate	8.688	43	55871	10.611 ug/l		94
44) Trichloroethene	9.353	130	21099	9.719 ug/l		98
45) 1,2-Dichloropropane	9.618	63	22314	10.105 ug/l		96
46) Dibromomethane	9.706	93	15211	9.762 ug/l		99
47) Bromodichloromethane	9.883	83	32612	9.929 ug/l	#	93
48) Methyl methacrylate	9.683	41	20961	10.127 ug/l		98
49) 1,4-Dioxane	9.700	88	7375	201.076 ug/l	#	76
51) 4-Methyl-2-Pentanone	10.447	43	130324	51.405 ug/l		99
52) Toluene	10.630	92	56321	10.230 ug/l		100
53) t-1,3-Dichloropropene	10.835	75	33220	9.771 ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	35562	9.883 ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	21367	10.303 ug/l		94
56) Ethyl methacrylate	10.871	69	29804	9.936 ug/l		98
57) 1,3-Dichloropropane	11.165	76	35790	10.056 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	66790	47.583 ug/l		97
59) 2-Hexanone	11.200	43	92772	50.273 ug/l		100
60) Dibromochloromethane	11.359	129	24541	10.383 ug/l		97
61) 1,2-Dibromoethane	11.471	107	20895	9.839 ug/l		97
64) Tetrachloroethene	11.100	164	18777	10.439 ug/l		94
65) Chlorobenzene	11.888	112	60746	10.041 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	21080	10.018 ug/l		98
67) Ethyl Benzene	11.965	91	101653	10.067 ug/l		99
68) m/p-Xylenes	12.071	106	75857	19.842 ug/l		100
69) o-Xylene	12.394	106	36696	10.261 ug/l		100
70) Styrene	12.412	104	61865	9.916 ug/l		98
71) Bromoform	12.576	173	15630	9.871 ug/l	#	95
73) Isopropylbenzene	12.694	105	91683	10.287 ug/l		98
74) N-amyl acetate	12.494	43	38841	10.240 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30270	10.175 ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	25940m	10.336 ug/l		
77) Bromobenzene	12.982	156	23987	10.012 ug/l		94
78) n-propylbenzene	13.035	91	106518	10.199 ug/l		99
79) 2-Chlorotoluene	13.123	91	68678	10.064 ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	77273	10.461 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	11334	10.577 ug/l		96
82) 4-Chlorotoluene	13.218	91	71787	9.996 ug/l		99
83) tert-Butylbenzene	13.435	119	62600	10.240 ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	78207	10.258 ug/l		98
85) sec-Butylbenzene	13.612	105	89469	10.361 ug/l		99
86) p-Isopropyltoluene	13.729	119	72307	10.210 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	45832	9.802 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	47483	10.276 ug/l		97
89) n-Butylbenzene	14.053	91	62495	9.433 ug/l		100
90) Hexachloroethane	14.335	117	16100	10.194 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	44055	9.805 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5744	9.531 ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	22413	9.114 ug/l		97
94) Hexachlorobutadiene	15.494	225	10263	9.503 ug/l		97
95) Naphthalene	15.641	128	68919	9.363 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	22303	9.342 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

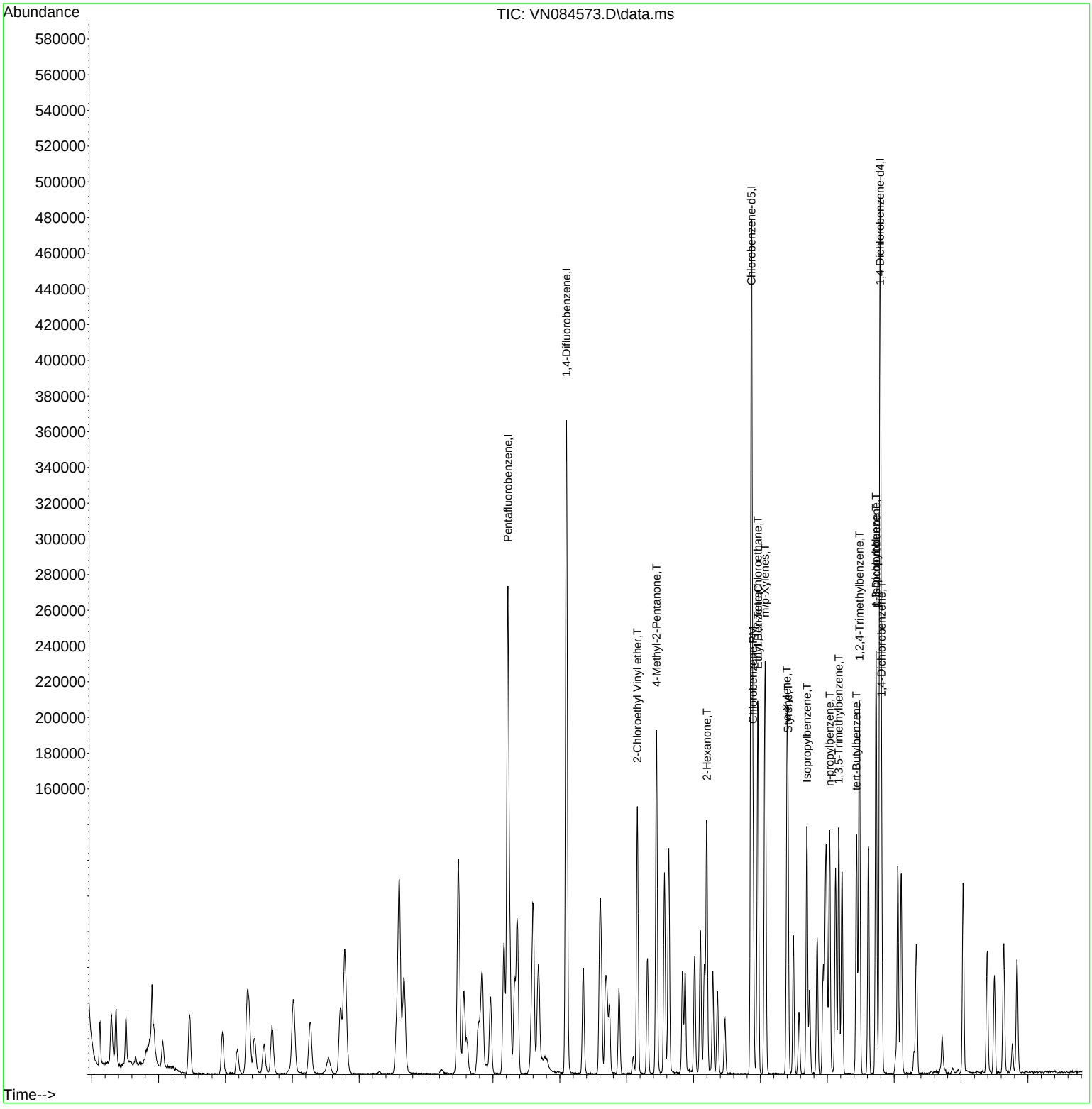
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	171598	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	297777	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	254342	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118229	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	13227	5.337	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.680%#			
35) Dibromofluoromethane	8.165	113	10512	5.215	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.440%#			
50) Toluene-d8	10.565	98	36225	4.879	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.760%#			
62) 4-Bromofluorobenzene	12.847	95	13506	4.867	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.740%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	10192	5.167	ug/l		93
3) Chloromethane	2.360	50	17076	5.115	ug/l		97
4) Vinyl Chloride	2.513	62	11174	5.267	ug/l		96
5) Bromomethane	2.901	94	6944	6.177	ug/l		98
6) Chloroethane	3.060	64	8146	4.946	ug/l		98
7) Trichlorofluoromethane	3.460	101	18362	5.254	ug/l		98
8) Diethyl Ether	3.954	74	6372	5.168	ug/l		91
9) 1,1,2-Trichlorotrifluo...	4.348	101	10090	5.109	ug/l		99
10) Methyl Iodide	4.571	142	14021	5.312	ug/l	#	96
11) Tert butyl alcohol	5.536	59	10153	31.035	ug/l	#	87
12) 1,1-Dichloroethene	4.324	96	9474	4.848	ug/l		91
13) Acrolein	4.183	56	8890	27.251	ug/l		97
14) Allyl chloride	5.012	41	16771	5.292	ug/l		94
15) Acrylonitrile	5.724	53	25212	26.621	ug/l		99
16) Acetone	4.430	43	20706	26.370	ug/l		91
17) Carbon Disulfide	4.689	76	30614	5.087	ug/l	#	86
18) Methyl Acetate	5.030	43	21727	4.691	ug/l		99
19) Methyl tert-butyl Ether	5.795	73	30655	5.118	ug/l	#	89
20) Methylene Chloride	5.265	84	12258	5.623	ug/l		91
21) trans-1,2-Dichloroethene	5.771	96	10024	4.996	ug/l		94
22) Diisopropyl ether	6.671	45	31631	5.023	ug/l		93
23) Vinyl Acetate	6.601	43	111267	25.622	ug/l		98
24) 1,1-Dichloroethane	6.559	63	20644	5.460	ug/l		96
25) 2-Butanone	7.489	43	31742	27.452	ug/l		97
26) 2,2-Dichloropropane	7.483	77	16462	5.003	ug/l		94
27) cis-1,2-Dichloroethene	7.483	96	12105	5.167	ug/l		98
28) Bromochloromethane	7.806	49	7002	4.649	ug/l	#	91
29) Tetrahydrofuran	7.842	42	20240	26.385	ug/l		99
30) Chloroform	7.959	83	20974	5.451	ug/l		92
31) Cyclohexane	8.253	56	18750	5.480	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	17717	5.059	ug/l		97
36) 1,1-Dichloropropene	8.371	75	14193	5.077	ug/l		99
37) Ethyl Acetate	7.559	43	13884	5.474	ug/l	#	94
38) Carbon Tetrachloride	8.353	117	15977	5.113	ug/l		96
39) Methylcyclohexane	9.600	83	13624	4.791	ug/l		95
40) Benzene	8.600	78	46044	5.129	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	7091	5.199	ug/l		97
42) 1,2-Dichloroethane	8.665	62	14972	5.150	ug/l		98
43) Isopropyl Acetate	8.689	43	30044	5.554	ug/l	#	90
44) Trichloroethene	9.347	130	10168	4.911	ug/l		89
45) 1,2-Dichloropropane	9.618	63	11095	5.269	ug/l		97
46) Dibromomethane	9.706	93	7752	5.217	ug/l		97
47) Bromodichloromethane	9.889	83	15749	5.028	ug/l	#	98
48) Methyl methacrylate	9.677	41	9971	5.051	ug/l		97
49) 1,4-Dioxane	9.700	88	3729	106.609	ug/l		95
51) 4-Methyl-2-Pentanone	10.447	43	61332	25.367	ug/l		100
52) Toluene	10.630	92	26518	5.051	ug/l		99
53) t-1,3-Dichloropropene	10.836	75	16279	5.021	ug/l		93
54) cis-1,3-Dichloropropene	10.312	75	17395	5.069	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	10193	5.154	ug/l		93
56) Ethyl methacrylate	10.871	69	13362	4.671	ug/l		94
57) 1,3-Dichloropropane	11.165	76	17816	5.249	ug/l		96
58) 2-Chloroethyl Vinyl ether	10.159	63	30088	22.477	ug/l		98
59) 2-Hexanone	11.194	43	43750	24.860	ug/l		97
60) Dibromochloromethane	11.359	129	11226	4.980	ug/l		96
61) 1,2-Dibromoethane	11.471	107	10584	5.226	ug/l		97
64) Tetrachloroethene	11.100	164	8917	5.271	ug/l	#	87
65) Chlorobenzene	11.888	112	29618	5.205	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.959	131	10265	5.186	ug/l		99
67) Ethyl Benzene	11.965	91	47037	4.952	ug/l		98
68) m/p-Xylenes	12.065	106	34753	9.665	ug/l		100
69) o-Xylene	12.394	106	16393	4.873	ug/l		99
70) Styrene	12.412	104	27807	4.739	ug/l		98
71) Bromoform	12.577	173	7686	5.161	ug/l	#	95
73) Isopropylbenzene	12.694	105	40223	4.855	ug/l		99
74) N-amyl acetate	12.494	43	18583	5.270	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	15573	5.631	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	11982m	5.136	ug/l		
77) Bromobenzene	12.983	156	11012	4.944	ug/l		98
78) n-propylbenzene	13.035	91	47776	4.921	ug/l		99
79) 2-Chlorotoluene	13.124	91	32460	5.117	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	32685	4.760	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.730	75	5096	5.116	ug/l		93
82) 4-Chlorotoluene	13.218	91	33672	5.044	ug/l		98
83) tert-Butylbenzene	13.435	119	26850	4.724	ug/l		95
84) 1,2,4-Trimethylbenzene	13.483	105	32703	4.614	ug/l		100
85) sec-Butylbenzene	13.612	105	37187	4.632	ug/l		97
86) p-Isopropyltoluene	13.730	119	29767	4.521	ug/l		97
87) 1,3-Dichlorobenzene	13.730	146	22272	5.124	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	22213	4.741	ug/l		91
89) n-Butylbenzene	14.053	91	29010	4.710	ug/l		99
90) Hexachloroethane	14.335	117	7404	5.043	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	22221	5.320	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	3239	5.781	ug/l		93
93) 1,2,4-Trichlorobenzene	15.394	180	11298	4.942	ug/l		99
94) Hexachlorobutadiene	15.500	225	5184	5.163	ug/l		96
95) Naphthalene	15.641	128	32966	4.817	ug/l		98
96) 1,2,3-Trichlorobenzene	15.835	180	11106	5.004	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

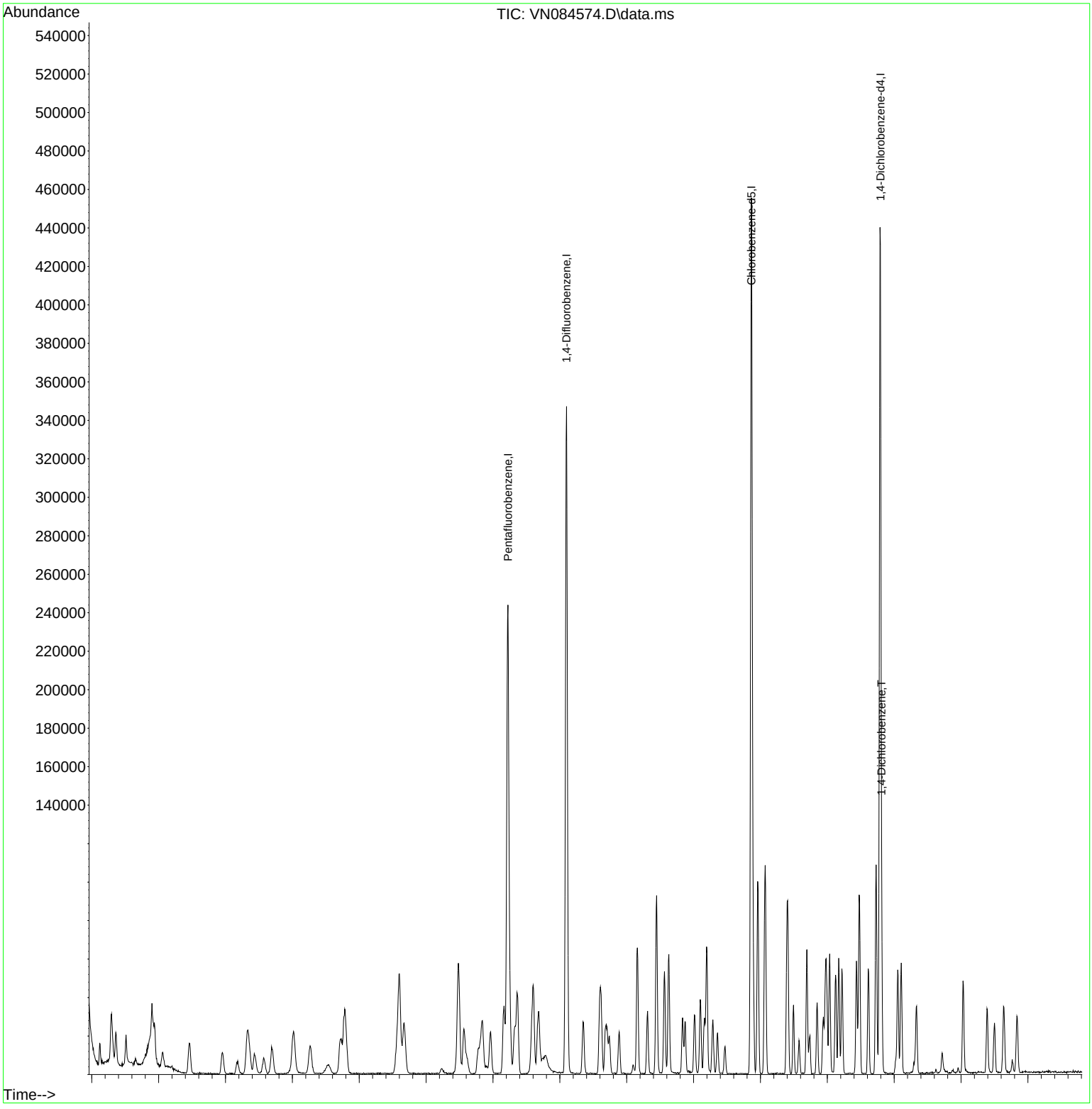
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	168991	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	297772	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	250990	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109560	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	1964	1.011	ug/l		100
3) Chloromethane	2.365	50	6046	1.880	ug/l	#	80
4) Vinyl Chloride	2.512	62	1963	0.939	ug/l		89
6) Chloroethane	3.083	64	2917	0.885	ug/l		98
7) Trichlorofluoromethane	3.471	101	3621	1.052	ug/l	#	74
8) Diethyl Ether	3.971	74	1209m	0.996	ug/l		
9) 1,1,2-Trichlorotrifluo...	4.359	101	1982	1.019	ug/l		90
12) 1,1-Dichloroethene	4.336	96	2177	1.131	ug/l	#	68
14) Allyl chloride	5.006	41	2869	0.919	ug/l	#	29
15) Acrylonitrile	5.730	53	4443	4.764	ug/l	#	55
16) Acetone	4.430	43	5707m	5.302	ug/l		
17) Carbon Disulfide	4.700	76	7155	1.207	ug/l	#	93
18) Methyl Acetate	5.024	43	7743	1.954	ug/l	#	89
19) Methyl tert-butyl Ether	5.806	73	5314	0.901	ug/l		95
20) Methylene Chloride	5.271	84	2029	0.945	ug/l	#	81
21) trans-1,2-Dichloroethene	5.789	96	2030	1.027	ug/l	#	78
22) Diisopropyl ether	6.665	45	5485	0.884	ug/l	#	89
23) Vinyl Acetate	6.600	43	18413	4.306	ug/l		96
24) 1,1-Dichloroethane	6.553	63	3491	0.938	ug/l	#	83
25) 2-Butanone	7.494	43	5644	4.956	ug/l	#	88
26) 2,2-Dichloropropane	7.488	77	3152	0.973	ug/l	#	70
27) cis-1,2-Dichloroethene	7.477	96	2275	0.986	ug/l	#	75
28) Bromochloromethane	7.812	49	1450	0.978	ug/l	#	97
29) Tetrahydrofuran	7.847	42	3321	4.396	ug/l		96
30) Chloroform	7.965	83	3463	0.914	ug/l		87
32) 1,1,1-Trichloroethane	8.171	97	3312	0.960	ug/l	#	34
36) 1,1-Dichloropropene	8.365	75	2825	1.011	ug/l		97
37) Ethyl Acetate	7.559	43	2440	0.962	ug/l	#	88
38) Carbon Tetrachloride	8.353	117	2904	0.929	ug/l	#	73
39) Methylcyclohexane	9.600	83	2212	0.778	ug/l		89
40) Benzene	8.600	78	9169	1.021	ug/l		94
41) Methacrylonitrile	7.777	41	1095	0.803	ug/l	#	84
42) 1,2-Dichloroethane	8.665	62	2733	0.940	ug/l		81
43) Isopropyl Acetate	8.688	43	7724	0.697	ug/l	#	78
44) Trichloroethene	9.353	130	2306	1.114	ug/l		74
45) 1,2-Dichloropropane	9.624	63	1967	0.934	ug/l	#	86

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	9.712	93	1472	0.991 ug/l	93
47) Bromodichloromethane	9.882	83	3156	1.008 ug/l #	96
48) Methyl methacrylate	9.682	41	1652	0.837 ug/l #	84
49) 1,4-Dioxane	9.700	88	576	16.468 ug/l #	73
51) 4-Methyl-2-Pentanone	10.441	43	10237	4.234 ug/l	92
52) Toluene	10.629	92	4507	0.858 ug/l	89
53) t-1,3-Dichloropropene	10.835	75	3308	1.020 ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	3266	0.952 ug/l #	94
55) 1,1,2-Trichloroethane	11.012	97	1841	0.931 ug/l #	86
56) Ethyl methacrylate	10.876	69	2211	0.773 ug/l	94
57) 1,3-Dichloropropane	11.165	76	3139	0.925 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	4979	3.720 ug/l #	87
59) 2-Hexanone	11.194	43	7617	4.328 ug/l	89
60) Dibromochloromethane	11.353	129	1857	0.824 ug/l	88
61) 1,2-Dibromoethane	11.465	107	2001	0.988 ug/l	89
64) Tetrachloroethene	11.100	164	1629	0.976 ug/l #	69
65) Chlorobenzene	11.894	112	5753	1.025 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	2002	1.025 ug/l #	61
67) Ethyl Benzene	11.965	91	8520	0.909 ug/l	98
68) m/p-Xylenes	12.070	106	6568	1.851 ug/l	96
69) o-Xylene	12.400	106	2759	0.831 ug/l	99
70) Styrene	12.406	104	5269	0.910 ug/l	95
71) Bromoform	12.582	173	1434	0.976 ug/l #	95
73) Isopropylbenzene	12.694	105	6985	0.910 ug/l	99
74) N-amyl acetate	12.488	43	2680	0.820 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.929	83	2678	1.045 ug/l #	91
76) 1,2,3-Trichloropropane	12.994	75	2731m	1.263 ug/l	
77) Bromobenzene	12.982	156	2440	1.182 ug/l	95
78) n-propylbenzene	13.035	91	7935	0.882 ug/l	95
79) 2-Chlorotoluene	13.123	91	5699	0.969 ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	5298	0.833 ug/l	98
82) 4-Chlorotoluene	13.223	91	6682	1.080 ug/l	96
83) tert-Butylbenzene	13.435	119	4148	0.788 ug/l	89
84) 1,2,4-Trimethylbenzene	13.482	105	5651	0.860 ug/l	98
85) sec-Butylbenzene	13.617	105	6490	0.872 ug/l	93
86) p-Isopropyltoluene	13.729	119	4859	0.796 ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	4961	1.232 ug/l	95
88) 1,4-Dichlorobenzene	13.817	146	6076m	0.801 ug/l	
89) n-Butylbenzene	14.059	91	6020	1.055 ug/l	95
90) Hexachloroethane	14.329	117	1493	1.097 ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	4428	1.144 ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.717	75	595	1.146 ug/l	83
93) 1,2,4-Trichlorobenzene	15.394	180	2964	1.399 ug/l	98
94) Hexachlorobutadiene	15.506	225	1208	1.298 ug/l	88
95) Naphthalene	15.635	128	7352	1.159 ug/l	96
96) 1,2,3-Trichlorobenzene	15.835	180	2605	1.267 ug/l	91

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

ICAL Form

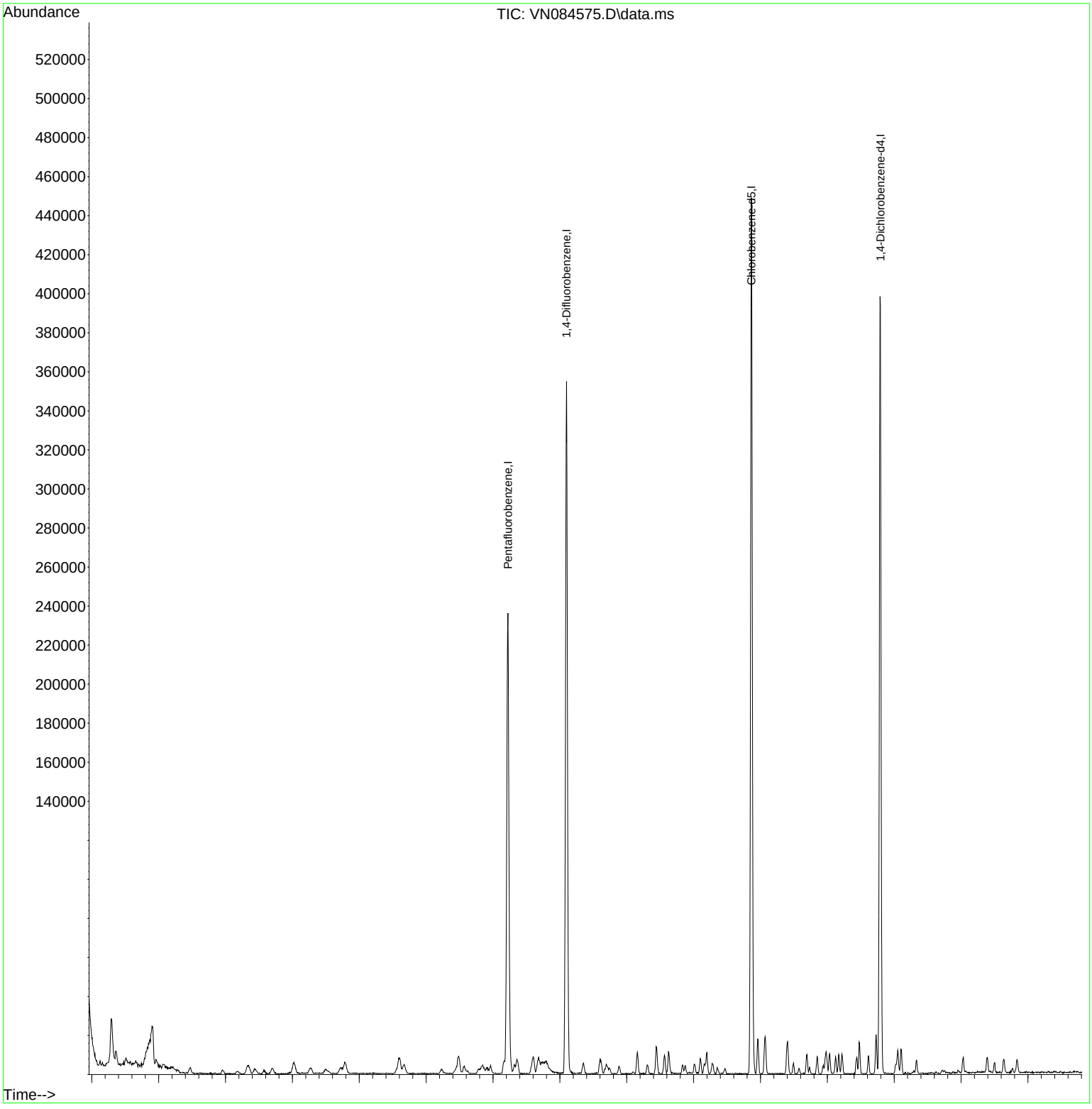
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	192202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132029	47.560	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.120%			
35) Dibromofluoromethane	8.165	113	104306	47.522	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.040%			
50) Toluene-d8	10.565	98	390989	48.359	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.720%			
62) 4-Bromofluorobenzene	12.847	95	144180	47.715	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	101605	45.985	ug/l	97
3) Chloromethane	2.359	50	118060	45.299	ug/l	99
4) Vinyl Chloride	2.512	62	110340	46.430	ug/l	95
5) Bromomethane	2.900	94	54764	43.494	ug/l	100
6) Chloroethane	3.071	64	68330	46.348	ug/l	93
7) Trichlorofluoromethane	3.471	101	178683	45.644	ug/l	98
8) Diethyl Ether	3.959	74	64407	46.640	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101094	45.702	ug/l	98
10) Methyl Iodide	4.577	142	137594	46.542	ug/l	97
11) Tert butyl alcohol	5.536	59	80556	219.840	ug/l	99
12) 1,1-Dichloroethene	4.330	96	99235	45.338	ug/l	99
13) Acrolein	4.171	56	79788	218.362	ug/l	98
14) Allyl chloride	5.012	41	170293	47.975	ug/l	92
15) Acrylonitrile	5.718	53	251141	236.747	ug/l	100
16) Acetone	4.430	43	196070	244.445	ug/l	100
17) Carbon Disulfide	4.700	76	287697	42.682	ug/l	99
18) Methyl Acetate	5.024	43	132834	44.944	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	326067	48.603	ug/l	97
20) Methylene Chloride	5.265	84	111618	45.716	ug/l	91
21) trans-1,2-Dichloroethene	5.777	96	101181	45.019	ug/l	98
22) Diisopropyl ether	6.671	45	343763	48.739	ug/l	99
23) Vinyl Acetate	6.600	43	1204384	247.614	ug/l	99
24) 1,1-Dichloroethane	6.559	63	196518	46.408	ug/l	97
25) 2-Butanone	7.483	43	307765	237.635	ug/l	97
26) 2,2-Dichloropropane	7.488	77	166234	45.103	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	121280	46.214	ug/l	97
28) Bromochloromethane	7.806	49	92741	54.971	ug/l	97
29) Tetrahydrofuran	7.835	42	211210	245.822	ug/l	98
30) Chloroform	7.965	83	203935	47.316	ug/l	100
31) Cyclohexane	8.253	56	172671	45.053	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	183488	46.774	ug/l	98
36) 1,1-Dichloropropene	8.365	75	141152	46.370	ug/l	100
37) Ethyl Acetate	7.559	43	132993	48.154	ug/l	99
38) Carbon Tetrachloride	8.359	117	157005	46.145	ug/l	97
39) Methylcyclohexane	9.600	83	154743	49.969	ug/l	99
40) Benzene	8.606	78	452351	46.273	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	77176	51.964	ug/l		99
42) 1,2-Dichloroethane	8.671	62	149173	47.118	ug/l		99
43) Isopropyl Acetate	8.688	43	232558	45.492	ug/l		98
44) Trichloroethene	9.347	130	100849	44.732	ug/l		99
45) 1,2-Dichloropropane	9.618	63	108229	47.196	ug/l		96
46) Dibromomethane	9.706	93	74292	45.911	ug/l		96
47) Bromodichloromethane	9.888	83	158814	46.560	ug/l	#	99
48) Methyl methacrylate	9.676	41	109745	51.057	ug/l		97
49) 1,4-Dioxane	9.694	88	40527	1063.992	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.447	43	665397	252.729	ug/l		98
52) Toluene	10.629	92	277957	48.616	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	162100	45.911	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	175008	46.832	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	102553	47.618	ug/l		97
56) Ethyl methacrylate	10.871	69	164370	52.764	ug/l		98
57) 1,3-Dichloropropane	11.165	76	176546	47.765	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	408174	280.013	ug/l		98
59) 2-Hexanone	11.194	43	489776	255.570	ug/l		99
60) Dibromochloromethane	11.359	129	120465	49.079	ug/l		99
61) 1,2-Dibromoethane	11.465	107	102316	46.393	ug/l		100
64) Tetrachloroethene	11.100	164	88124	45.436	ug/l		98
65) Chlorobenzene	11.888	112	292713	44.872	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	105108	46.323	ug/l		99
67) Ethyl Benzene	11.965	91	526140	48.319	ug/l		99
68) m/p-Xylenes	12.070	106	408029	98.979	ug/l		99
69) o-Xylene	12.400	106	194895	50.538	ug/l		99
70) Styrene	12.412	104	333668	49.600	ug/l		98
71) Bromoform	12.576	173	78822	46.166	ug/l	#	98
73) Isopropylbenzene	12.694	105	491033	49.063	ug/l		100
74) N-amyl acetate	12.494	43	209049	49.076	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	147181	44.058	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	122725m	42.988	ug/l		
77) Bromobenzene	12.976	156	119728	44.500	ug/l		97
78) n-propylbenzene	13.035	91	576495	49.156	ug/l		98
79) 2-Chlorotoluene	13.123	91	367294	47.930	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	420675	50.714	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	54512	45.300	ug/l		99
82) 4-Chlorotoluene	13.223	91	361596	44.837	ug/l		98
83) tert-Butylbenzene	13.435	119	361800	52.701	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	428517	50.053	ug/l		100
85) sec-Butylbenzene	13.617	105	483212	49.829	ug/l		100
86) p-Isopropyltoluene	13.729	119	410129	51.568	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	219757	41.852	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	221608	45.904	ug/l		99
89) n-Butylbenzene	14.053	91	341775	45.941	ug/l		100
90) Hexachloroethane	14.329	117	77324	43.597	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	220824	43.765	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30895	45.651	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	111270	40.290	ug/l		98
94) Hexachlorobutadiene	15.500	225	47959	39.544	ug/l		97
95) Naphthalene	15.641	128	375360	45.408	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	108830	40.595	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

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

ICAL Form

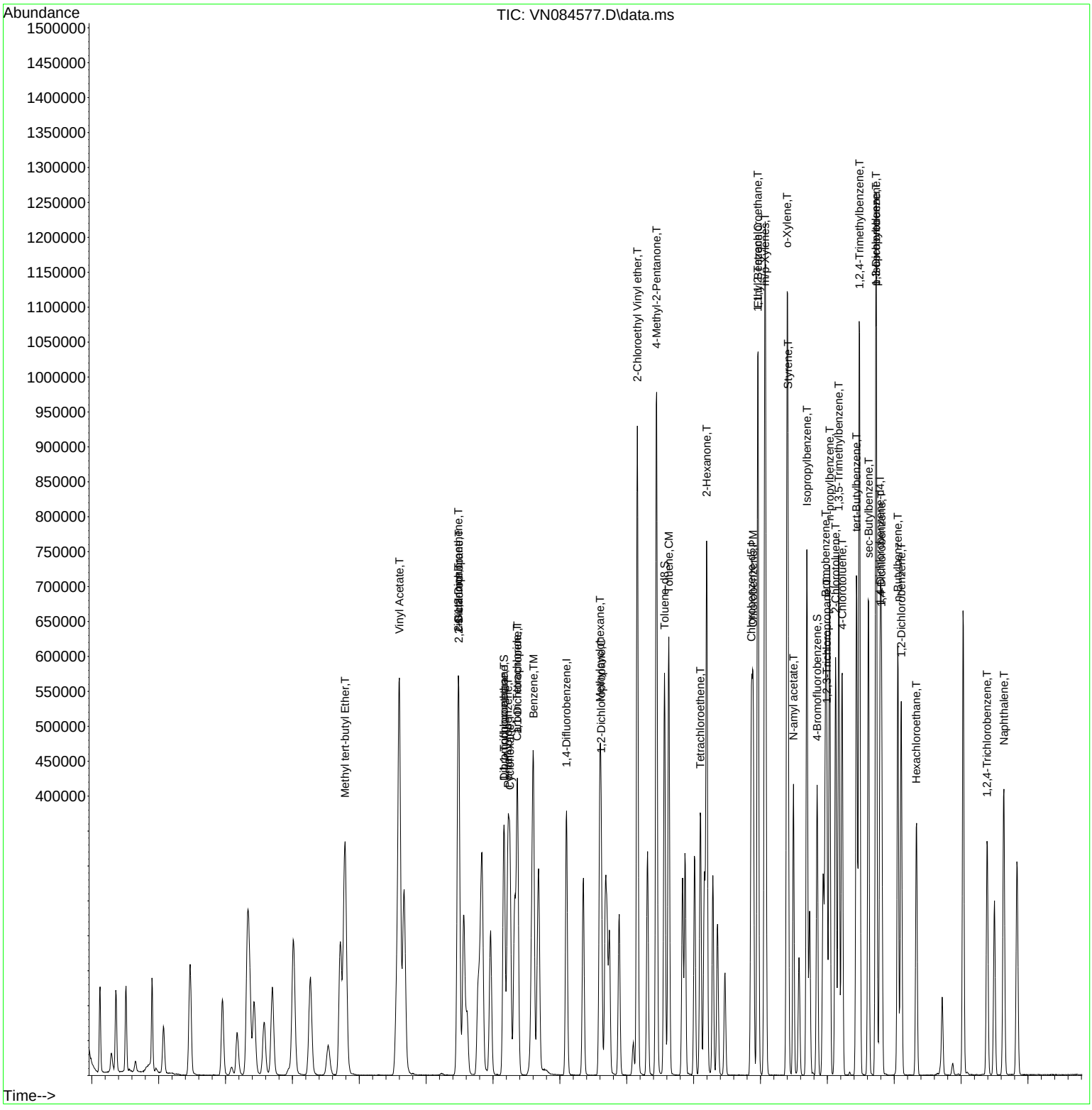
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.575	0.529	8.0	99	0.00
3	P	Chloromethane	0.952	0.614	35.5#	94	0.00
4	C	Vinyl Chloride	0.618	0.574	7.1#	98	0.00
5	T	Bromomethane	0.328	0.285	13.1	99	-0.05
6	T	Chloroethane	0.488	0.356	27.0#	97	-0.05
7	T	Trichlorofluoromethane	1.018	0.930	8.6	100	-0.02
8	T	Diethyl Ether	0.359	0.335	6.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.526	8.5	97	-0.01
10	T	Methyl Iodide	0.769	0.716	6.9	100	-0.02
11	T	Tert butyl alcohol	0.095	0.084	11.6	100	0.01
12	CM	1,1-Dichloroethene	0.569	0.516	9.3#	99	-0.01
13	T	Acrolein	0.095	0.083	12.6	97	0.00
14	T	Allyl chloride	0.923	0.886	4.0	100	-0.01
15	T	Acrylonitrile	0.276	0.261	5.4	99	0.00
16	T	Acetone	0.238	0.204	14.3	103	0.00
17	T	Carbon Disulfide	1.753	1.497	14.6	96	-0.01
18	T	Methyl Acetate	1.172	0.691	41.0#	95	0.00
19	T	Methyl tert-butyl Ether	1.745	1.696	2.8	99	0.00
20	T	Methylene Chloride	0.635	0.581	8.5	99	-0.01
21	T	trans-1,2-Dichloroethene	0.585	0.526	10.1	96	-0.01
22	T	Diisopropyl ether	1.835	1.789	2.5	99	0.00
23	T	Vinyl Acetate	1.265	1.253	0.9	99	0.00
24	P	1,1-Dichloroethane	1.102	1.022	7.3	99	-0.01
25	T	2-Butanone	0.337	0.320	5.0	105	0.00
26	T	2,2-Dichloropropane	0.959	0.865	9.8	95	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.631	7.6	98	0.00
28	T	Bromochloromethane	0.439	0.483	-10.0	97	0.00
29	T	Tetrahydrofuran	0.224	0.220	1.8	102	0.00
30	C	Chloroform	1.121	1.061	5.4#	101	0.00
31	T	Cyclohexane	0.997	0.898	9.9	99	0.00
32	T	1,1,1-Trichloroethane	1.021	0.955	6.5	99	0.00
33	S	1,2-Dichloroethane-d4	0.722	0.687	4.8	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.338	0.322	4.7	97	0.00
36	T	1,1-Dichloropropene	0.469	0.435	7.2	100	0.00
37	T	Ethyl Acetate	0.426	0.410	3.8	101	0.00
38	T	Carbon Tetrachloride	0.525	0.484	7.8	98	0.00
39	T	Methylcyclohexane	0.478	0.477	0.2	98	0.00
40	TM	Benzene	1.507	1.395	7.4	100	0.00
41	T	Methacrylonitrile	0.229	0.238	-3.9	101	0.00
42	TM	1,2-Dichloroethane	0.488	0.460	5.7	97	0.00
43	T	Isopropyl Acetate	0.927	0.717	22.7	99	0.00
44	TM	Trichloroethene	0.348	0.311	10.6	97	0.00
45	C	1,2-Dichloropropane	0.354	0.334	5.6#	100	0.00
46	T	Dibromomethane	0.250	0.229	8.4	98	0.00
47	T	Bromodichloromethane	0.526	0.490	6.8	98	0.00
48	T	Methyl methacrylate	0.331	0.338	-2.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.006	0.0	107	0.00
50	S	Toluene-d8	1.247	1.206	3.3	96	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.410	-1.0	101	0.00
52	CM	Toluene	0.882	0.857	2.8#	99	0.00
53	T	t-1,3-Dichloropropene	0.544	0.500	8.1	96	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.540	6.2	97	0.00
55	T	1,1,2-Trichloroethane	0.332	0.316	4.8	100	0.00
56	T	Ethyl methacrylate	0.480	0.507	-5.6	98	0.00
57	T	1,3-Dichloropropane	0.570	0.544	4.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.252	-12.0	100	0.00
59	T	2-Hexanone	0.296	0.302	-2.0	101	0.00
60	T	Dibromochloromethane	0.378	0.372	1.6	98	0.00
61	T	1,2-Dibromoethane	0.340	0.316	7.1	98	0.00
62	S	4-Bromofluorobenzene	0.466	0.445	4.5	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.333	0.302	9.3	101	0.00
65	PM	Chlorobenzene	1.119	1.004	10.3	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.360	7.5	100	0.00
67	C	Ethyl Benzene	1.867	1.804	3.4#	100	0.00
68	T	m/p-Xylenes	0.707	0.700	1.0	100	0.00
69	T	o-Xylene	0.661	0.668	-1.1	101	0.00
70	T	Styrene	1.154	1.144	0.9	99	0.00
71	P	Bromoform	0.293	0.270	7.8	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.504	3.438	1.9	99	0.00
74	T	N-amyl acetate	1.491	1.464	1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.031	11.9	99	0.00
76	T	1,2,3-Trichloropropane	0.999	0.859	14.0	100	0.00
77	T	Bromobenzene	0.942	0.838	11.0	98	0.00
78	T	n-propylbenzene	4.106	4.037	1.7	98	0.00
79	T	2-Chlorotoluene	2.683	2.572	4.1	101	0.00
80	T	1,3,5-Trimethylbenzene	2.904	2.946	-1.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.382	9.3	98	0.00
82	T	4-Chlorotoluene	2.823	2.532	10.3	96	0.00
83	T	tert-Butylbenzene	2.403	2.533	-5.4	103	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.000	-0.1	98	0.00
85	T	sec-Butylbenzene	3.395	3.383	0.4	99	0.00
86	T	p-Isopropyltoluene	2.784	2.872	-3.2	97	0.00
87	T	1,3-Dichlorobenzene	1.838	1.539	16.3	95	0.00
88	T	1,4-Dichlorobenzene	1.937	1.552	19.9	96	0.00
89	T	n-Butylbenzene	2.605	2.393	8.1	94	0.00
90	T	Hexachloroethane	0.621	0.541	12.9	95	0.00
91	T	1,2-Dichlorobenzene	1.766	1.546	12.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.216	8.9	103	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.779	19.4	93	0.00
94	T	Hexachlorobutadiene	0.425	0.336	20.9	94	0.00
95	T	Naphthalene	2.894	2.628	9.2	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.939	0.762	18.8	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	45.985	8.0	99	0.00
3	P	Chloromethane	50.000	45.299	9.4	94	0.00
4	C	Vinyl Chloride	50.000	46.430	7.1#	98	0.00
5	T	Bromomethane	50.000	43.494	13.0	99	-0.05
6	T	Chloroethane	50.000	46.348	7.3	97	-0.05
7	T	Trichlorofluoromethane	50.000	45.644	8.7	100	-0.02
8	T	Diethyl Ether	50.000	46.640	6.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.702	8.6	97	-0.01
10	T	Methyl Iodide	50.000	46.542	6.9	100	-0.02
11	T	Tert butyl alcohol	250.000	219.840	12.1	100	0.01
12	CM	1,1-Dichloroethene	50.000	45.338	9.3#	99	-0.01
13	T	Acrolein	250.000	218.362	12.7	97	0.00
14	T	Allyl chloride	50.000	47.975	4.0	100	-0.01
15	T	Acrylonitrile	250.000	236.747	5.3	99	0.00
16	T	Acetone	250.000	244.445	2.2	103	0.00
17	T	Carbon Disulfide	50.000	42.682	14.6	96	-0.01
18	T	Methyl Acetate	50.000	44.944	10.1	95	0.00
19	T	Methyl tert-butyl Ether	50.000	48.603	2.8	99	0.00
20	T	Methylene Chloride	50.000	45.716	8.6	99	-0.01
21	T	trans-1,2-Dichloroethene	50.000	45.019	10.0	96	-0.01
22	T	Diisopropyl ether	50.000	48.739	2.5	99	0.00
23	T	Vinyl Acetate	250.000	247.614	1.0	99	0.00
24	P	1,1-Dichloroethane	50.000	46.408	7.2	99	-0.01
25	T	2-Butanone	250.000	237.635	4.9	105	0.00
26	T	2,2-Dichloropropane	50.000	45.103	9.8	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.214	7.6	98	0.00
28	T	Bromochloromethane	50.000	54.971	-9.9	97	0.00
29	T	Tetrahydrofuran	250.000	245.822	1.7	102	0.00
30	C	Chloroform	50.000	47.316	5.4#	101	0.00
31	T	Cyclohexane	50.000	45.053	9.9	99	0.00
32	T	1,1,1-Trichloroethane	50.000	46.774	6.5	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.560	4.9	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	47.522	5.0	97	0.00
36	T	1,1-Dichloropropene	50.000	46.370	7.3	100	0.00
37	T	Ethyl Acetate	50.000	48.154	3.7	101	0.00
38	T	Carbon Tetrachloride	50.000	46.145	7.7	98	0.00
39	T	Methylcyclohexane	50.000	49.969	0.1	98	0.00
40	TM	Benzene	50.000	46.273	7.5	100	0.00
41	T	Methacrylonitrile	50.000	51.964	-3.9	101	0.00
42	TM	1,2-Dichloroethane	50.000	47.118	5.8	97	0.00
43	T	Isopropyl Acetate	50.000	45.492	9.0	99	0.00
44	TM	Trichloroethene	50.000	44.732	10.5	97	0.00
45	C	1,2-Dichloropropane	50.000	47.196	5.6#	100	0.00
46	T	Dibromomethane	50.000	45.911	8.2	98	0.00
47	T	Bromodichloromethane	50.000	46.560	6.9	98	0.00
48	T	Methyl methacrylate	50.000	51.057	-2.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1063.992	-6.4	107	0.00
50	S	Toluene-d8	50.000	48.359	3.3	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.729	-1.1	101	0.00
52	CM	Toluene	50.000	48.616	2.8#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	45.911	8.2	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	46.832	6.3	97	0.00
55	T	1,1,2-Trichloroethane	50.000	47.618	4.8	100	0.00
56	T	Ethyl methacrylate	50.000	52.764	-5.5	98	0.00
57	T	1,3-Dichloropropane	50.000	47.765	4.5	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.013	-12.0	100	0.00
59	T	2-Hexanone	250.000	255.570	-2.2	101	0.00
60	T	Dibromochloromethane	50.000	49.079	1.8	98	0.00
61	T	1,2-Dibromoethane	50.000	46.393	7.2	98	0.00
62	S	4-Bromofluorobenzene	50.000	47.715	4.6	94	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	45.436	9.1	101	0.00
65	PM	Chlorobenzene	50.000	44.872	10.3	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.323	7.4	100	0.00
67	C	Ethyl Benzene	50.000	48.319	3.4#	100	0.00
68	T	m/p-Xylenes	100.000	98.979	1.0	100	0.00
69	T	o-Xylene	50.000	50.538	-1.1	101	0.00
70	T	Styrene	50.000	49.600	0.8	99	0.00
71	P	Bromoform	50.000	46.166	7.7	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	49.063	1.9	99	0.00
74	T	N-amyl acetate	50.000	49.076	1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.058	11.9	99	0.00
76	T	1,2,3-Trichloropropane	50.000	42.988	14.0	100	0.00
77	T	Bromobenzene	50.000	44.500	11.0	98	0.00
78	T	n-propylbenzene	50.000	49.156	1.7	98	0.00
79	T	2-Chlorotoluene	50.000	47.930	4.1	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.714	-1.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.300	9.4	98	0.00
82	T	4-Chlorotoluene	50.000	44.837	10.3	96	0.00
83	T	tert-Butylbenzene	50.000	52.701	-5.4	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.053	-0.1	98	0.00
85	T	sec-Butylbenzene	50.000	49.829	0.3	99	0.00
86	T	p-Isopropyltoluene	50.000	51.568	-3.1	97	0.00
87	T	1,3-Dichlorobenzene	50.000	41.852	16.3	95	0.00
88	T	1,4-Dichlorobenzene	50.000	45.904	8.2	96	0.00
89	T	n-Butylbenzene	50.000	45.941	8.1	94	0.00
90	T	Hexachloroethane	50.000	43.597	12.8	95	0.00
91	T	1,2-Dichlorobenzene	50.000	43.765	12.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.651	8.7	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	40.290	19.4	93	0.00
94	T	Hexachlorobutadiene	50.000	39.544	20.9	94	0.00
95	T	Naphthalene	50.000	45.408	9.2	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	40.595	18.8	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VN084628.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG No.: P4658

Instrument ID: MSVOA_N Calibration Date/Time: 11/01/2024 10:22

Lab File ID: VN084628.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.575	0.538		-6.43	20
Chloromethane	0.952	0.582	0.1	-38.87	20
Vinyl Chloride	0.618	0.566		-8.41	20
Bromomethane	0.328	0.288		-12.19	20
Chloroethane	0.488	0.364		-25.41	20
Trichlorofluoromethane	1.018	0.944		-7.27	20
1,1,2-Trichlorotrifluoroethane	0.575	0.549		-4.52	20
1,1-Dichloroethene	0.569	0.502		-11.77	20
Acetone	0.238	0.204		-14.29	20
Carbon Disulfide	1.753	1.480		-15.57	20
Methyl tert-butyl Ether	1.745	1.720		-1.43	20
Methyl Acetate	1.172	0.691		-41.04	20
Methylene Chloride	0.635	0.598		-5.83	20
trans-1,2-Dichloroethene	0.585	0.542		-7.35	20
1,1-Dichloroethane	1.102	1.047	0.1	-4.99	20
Cyclohexane	0.997	0.878		-11.94	20
2-Butanone	0.337	0.326		-3.26	20
Carbon Tetrachloride	0.525	0.514		-2.1	20
cis-1,2-Dichloroethene	0.683	0.652		-4.54	20
Bromochloromethane	0.439	0.492		12.07	20
Chloroform	1.121	1.078		-3.84	20
1,1,1-Trichloroethane	1.021	0.967		-5.29	20
Methylcyclohexane	0.478	0.490		2.51	20
Benzene	1.507	1.457		-3.32	20
1,2-Dichloroethane	0.488	0.484		-0.82	20
Trichloroethene	0.348	0.325		-6.61	20
1,2-Dichloropropane	0.354	0.356		0.56	20
Bromodichloromethane	0.526	0.522		-0.76	20
4-Methyl-2-Pentanone	0.406	0.430		5.91	20
Toluene	0.882	0.905		2.61	20
t-1,3-Dichloropropene	0.544	0.517		-4.96	20
cis-1,3-Dichloropropene	0.576	0.566		-1.74	20
1,1,2-Trichloroethane	0.332	0.331		-0.3	20
2-Hexanone	0.296	0.316		6.76	20
Dibromochloromethane	0.378	0.401		6.09	20
1,2-Dibromoethane	0.340	0.338		-0.59	20
Tetrachloroethene	0.333	0.327		-1.8	20
Chlorobenzene	1.119	1.038	0.3	-7.24	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4658 SAS No.: P4658 SDG No.: P4658

Instrument ID: MSVOA_N Calibration Date/Time: 11/01/2024 10:22

Lab File ID: VN084628.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.867	1.850		-0.91	20
m/p-Xylenes	0.707	0.721		1.98	20
o-Xylene	0.661	0.681		3.03	20
Styrene	1.154	1.181		2.34	20
Bromoform	0.293	0.294	0.1	0.34	20
Isopropylbenzene	3.504	3.470		-0.97	20
1,1,2,2-Tetrachloroethane	1.170	1.079	0.3	-7.78	20
1,3-Dichlorobenzene	1.838	1.617		-12.02	20
1,4-Dichlorobenzene	1.937	1.621		-16.31	20
1,2-Dichlorobenzene	1.766	1.620		-8.27	20
1,2-Dibromo-3-Chloropropane	0.237	0.209		-11.81	20
1,2,4-Trichlorobenzene	0.967	0.796		-17.68	20
1,2,3-Trichlorobenzene	0.939	0.784		-16.51	20
1,2-Dichloroethane-d4	0.722	0.644		-10.8	20
Dibromofluoromethane	0.338	0.325		-3.85	20
Toluene-d8	1.247	1.185		-4.97	20
4-Bromofluorobenzene	0.466	0.451		-3.22	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	184180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299507	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	271207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136355	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118600	44.583	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.160%			
35) Dibromofluoromethane	8.159	113	97295	47.992	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.980%			
50) Toluene-d8	10.565	98	355060	47.545	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.080%			
62) 4-Bromofluorobenzene	12.847	95	135136	48.418	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	99144	46.826	ug/l	91
3) Chloromethane	2.359	50	107183	42.778	ug/l	98
4) Vinyl Chloride	2.512	62	104274	45.789	ug/l	97
5) Bromomethane	2.900	94	53126	44.031	ug/l	96
6) Chloroethane	3.065	64	66956	47.426	ug/l	95
7) Trichlorofluoromethane	3.465	101	173945	46.369	ug/l	97
8) Diethyl Ether	3.953	74	62657	47.349	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101057	47.675	ug/l	99
10) Methyl Iodide	4.577	142	130086	45.919	ug/l	99
11) Tert butyl alcohol	5.536	59	73446	209.166	ug/l	99
12) 1,1-Dichloroethene	4.324	96	92527	44.115	ug/l	97
13) Acrolein	4.171	56	93401	266.751	ug/l	98
14) Allyl chloride	5.012	41	159256	46.819	ug/l	92
15) Acrylonitrile	5.718	53	245055	241.071	ug/l	99
16) Acetone	4.424	43	188254	244.929	ug/l	93
17) Carbon Disulfide	4.700	76	272518	42.191	ug/l	96
18) Methyl Acetate	5.018	43	127182	44.902	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	316868	49.289	ug/l	99
20) Methylene Chloride	5.265	84	110189	47.096	ug/l	88
21) trans-1,2-Dichloroethene	5.777	96	99799	46.339	ug/l	100
22) Diisopropyl ether	6.665	45	334786	49.533	ug/l	98
23) Vinyl Acetate	6.600	43	1167096	250.398	ug/l	100
24) 1,1-Dichloroethane	6.565	63	192812	47.516	ug/l	96
25) 2-Butanone	7.482	43	300076	241.790	ug/l	97
26) 2,2-Dichloropropane	7.488	77	171112	48.449	ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	120101	47.758	ug/l	96
28) Bromochloromethane	7.812	49	90567	56.020	ug/l	96
29) Tetrahydrofuran	7.835	42	203801	247.530	ug/l	97
30) Chloroform	7.959	83	198531	48.069	ug/l	98
31) Cyclohexane	8.253	56	161647	44.014	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	178041	47.362	ug/l	98
36) 1,1-Dichloropropene	8.365	75	134844	47.960	ug/l	99
37) Ethyl Acetate	7.559	43	128683	50.445	ug/l	99
38) Carbon Tetrachloride	8.359	117	153837	48.951	ug/l	96
39) Methylcyclohexane	9.600	83	146769	51.312	ug/l	97
40) Benzene	8.600	78	436290	48.319	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	73571	53.631 ug/l	97
42) 1,2-Dichloroethane	8.671	62	145026	49.594 ug/l	99
43) Isopropyl Acetate	8.688	43	218643	46.323 ug/l	98
44) Trichloroethene	9.347	130	97430	46.787 ug/l	94
45) 1,2-Dichloropropane	9.618	63	106599	50.327 ug/l	97
46) Dibromomethane	9.706	93	75062	50.221 ug/l	98
47) Bromodichloromethane	9.888	83	156271	49.601 ug/l	99
48) Methyl methacrylate	9.676	41	105317	53.047 ug/l	99
49) 1,4-Dioxane	9.694	88	37747	1072.921 ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	643803	264.740 ug/l	99
52) Toluene	10.629	92	271189	51.353 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	154705	47.438 ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	169654	49.152 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	99093	49.815 ug/l	95
56) Ethyl methacrylate	10.876	69	157649	54.790 ug/l	97
57) 1,3-Dichloropropane	11.165	76	172023	50.388 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	394841	293.256 ug/l	96
59) 2-Hexanone	11.194	43	473287	267.380 ug/l	97
60) Dibromochloromethane	11.359	129	120058	52.956 ug/l	99
61) 1,2-Dibromoethane	11.470	107	101240	49.699 ug/l	97
64) Tetrachloroethene	11.106	164	88769	49.207 ug/l	96
65) Chlorobenzene	11.888	112	281585	46.410 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	101931	48.299 ug/l	99
67) Ethyl Benzene	11.965	91	501636	49.531 ug/l	99
68) m/p-Xylenes	12.070	106	390896	101.948 ug/l	98
69) o-Xylene	12.400	106	184603	51.466 ug/l	99
70) Styrene	12.412	104	320232	51.179 ug/l	99
71) Bromoform	12.576	173	79820	50.263 ug/l #	96
73) Isopropylbenzene	12.694	105	473125	49.514 ug/l	100
74) N-amyl acetate	12.494	43	198462	48.799 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	147150	46.136 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	120621m	44.254 ug/l	
77) Bromobenzene	12.982	156	119190	46.399 ug/l	91
78) n-propylbenzene	13.035	91	554194	49.493 ug/l	98
79) 2-Chlorotoluene	13.123	91	352750	48.213 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	402880	50.871 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	52289	45.512 ug/l	99
82) 4-Chlorotoluene	13.223	91	354928	46.096 ug/l	99
83) tert-Butylbenzene	13.441	119	340435	51.939 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	418264	51.171 ug/l	100
85) sec-Butylbenzene	13.617	105	462789	49.984 ug/l	100
86) p-Isopropyltoluene	13.729	119	394941	52.012 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	220467	43.977 ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	221013	48.021 ug/l	99
89) n-Butylbenzene	14.059	91	330406	46.517 ug/l	99
90) Hexachloroethane	14.335	117	77615	45.835 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	220854	45.845 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28485	44.085 ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	108547	41.167 ug/l	99
94) Hexachlorobutadiene	15.500	225	46422	40.091 ug/l	97
95) Naphthalene	15.641	128	347756	44.063 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	106880	41.757 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

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

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

Sample Results: **VN084628.D**

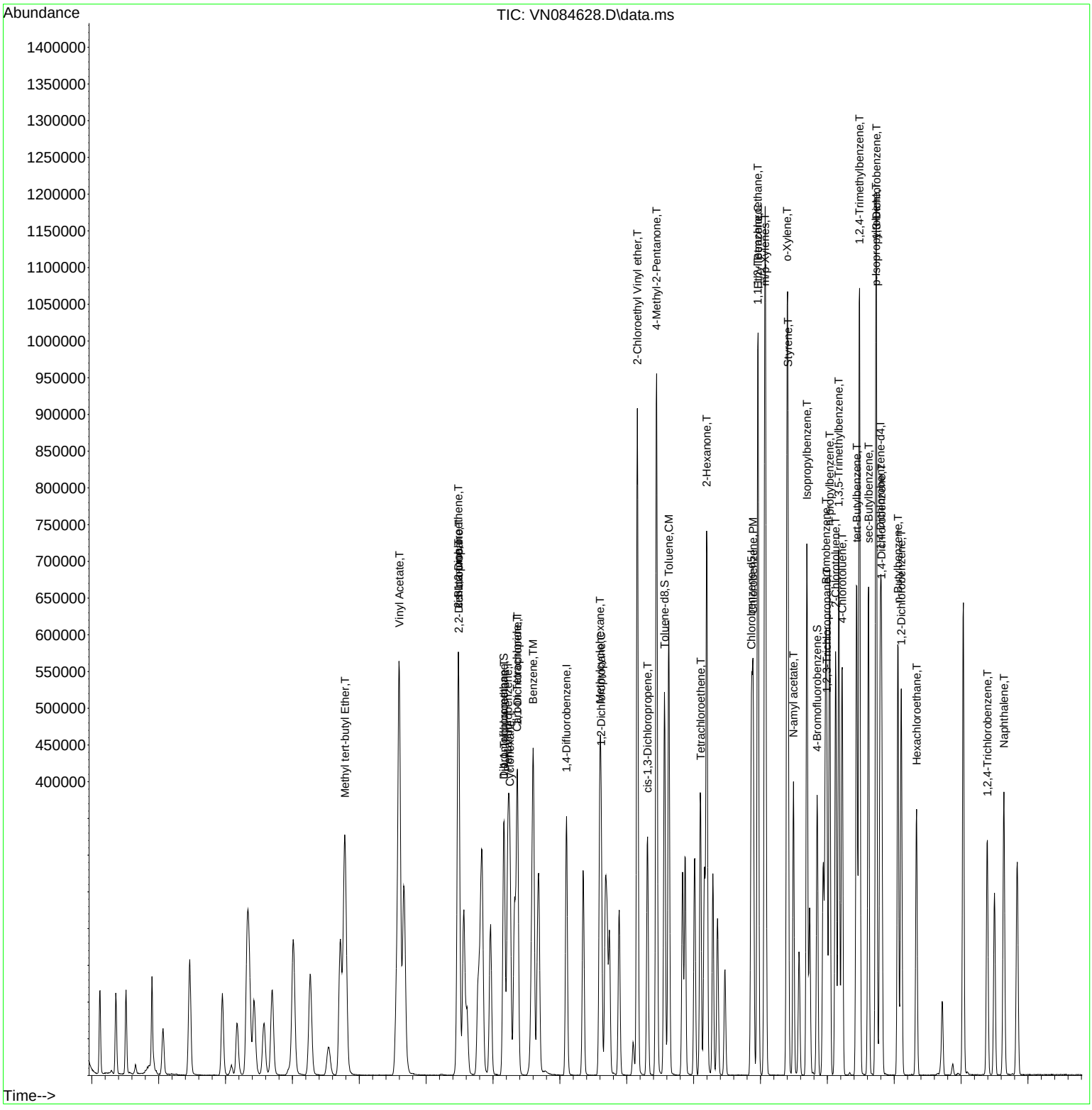
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



Evaluate Continuing Calibration Report

Sample Results: **VN084628.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	0.575	0.538	6.4	96	0.00
3	P	Chloromethane	0.952	0.582	38.9#	86	0.00
4	C	Vinyl Chloride	0.618	0.566	8.4#	92	0.00
5	T	Bromomethane	0.328	0.288	12.2	96	-0.05
6	T	Chloroethane	0.488	0.364	25.4#	95	-0.05
7	T	Trichlorofluoromethane	1.018	0.944	7.3	97	-0.03
8	T	Diethyl Ether	0.359	0.340	5.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.549	4.5	97	-0.01
10	T	Methyl Iodide	0.769	0.706	8.2	95	-0.02
11	T	Tert butyl alcohol	0.095	0.080	15.8	91	0.01
12	CM	1,1-Dichloroethene	0.569	0.502	11.8#	92	-0.02
13	T	Acrolein	0.095	0.101	-6.3	114	0.00
14	T	Allyl chloride	0.923	0.865	6.3	93	-0.01
15	T	Acrylonitrile	0.276	0.266	3.6	97	0.00
16	T	Acetone	0.238	0.204	14.3	99	0.00
17	T	Carbon Disulfide	1.753	1.480	15.6	91	-0.01
18	T	Methyl Acetate	1.172	0.691	41.0#	91	0.00
19	T	Methyl tert-butyl Ether	1.745	1.720	1.4	97	0.00
20	T	Methylene Chloride	0.635	0.598	5.8	98	-0.01
21	T	trans-1,2-Dichloroethene	0.585	0.542	7.4	95	-0.01
22	T	Diisopropyl ether	1.835	1.818	0.9	97	0.00
23	T	Vinyl Acetate	1.265	1.267	-0.2	96	0.00
24	P	1,1-Dichloroethane	1.102	1.047	5.0	97	0.00
25	T	2-Butanone	0.337	0.326	3.3	102	0.00
26	T	2,2-Dichloropropane	0.959	0.929	3.1	97	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.652	4.5	97	0.00
28	T	Bromochloromethane	0.439	0.492	-12.1	95	0.00
29	T	Tetrahydrofuran	0.224	0.221	1.3	98	0.00
30	C	Chloroform	1.121	1.078	3.8#	98	0.00
31	T	Cyclohexane	0.997	0.878	11.9	92	0.00
32	T	1,1,1-Trichloroethane	1.021	0.967	5.3	96	0.00
33	S	1,2-Dichloroethane-d4	0.722	0.644	10.8	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35	S	Dibromofluoromethane	0.338	0.325	3.8	91	0.00
36	T	1,1-Dichloropropene	0.469	0.450	4.1	96	0.00
37	T	Ethyl Acetate	0.426	0.430	-0.9	98	0.00
38	T	Carbon Tetrachloride	0.525	0.514	2.1	96	0.00
39	T	Methylcyclohexane	0.478	0.490	-2.5	93	0.00
40	TM	Benzene	1.507	1.457	3.3	97	0.00
41	T	Methacrylonitrile	0.229	0.246	-7.4	96	0.00
42	TM	1,2-Dichloroethane	0.488	0.484	0.8	94	0.00
43	T	Isopropyl Acetate	0.927	0.730	21.3	93	0.00
44	TM	Trichloroethene	0.348	0.325	6.6	93	0.00
45	C	1,2-Dichloropropane	0.354	0.356	-0.6#	98	0.00
46	T	Dibromomethane	0.250	0.251	-0.4	99	0.00
47	T	Bromodichloromethane	0.526	0.522	0.8	96	0.00
48	T	Methyl methacrylate	0.331	0.352	-6.3	98	0.00

Sample Results: **VN084628.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.006	0.0	100	0.00
50	S	Toluene-d8	1.247	1.185	5.0	87	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.430	-5.9	98	0.00
52	CM	Toluene	0.882	0.905	-2.6#	97	0.00
53	T	t-1,3-Dichloropropene	0.544	0.517	5.0	91	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.566	1.7	94	0.00
55	T	1,1,2-Trichloroethane	0.332	0.331	0.3	97	0.00
56	T	Ethyl methacrylate	0.480	0.526	-9.6	94	0.00
57	T	1,3-Dichloropropane	0.570	0.574	-0.7	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.264	-17.3	97	0.00
59	T	2-Hexanone	0.296	0.316	-6.8	98	0.00
60	T	Dibromochloromethane	0.378	0.401	-6.1	98	0.00
61	T	1,2-Dibromoethane	0.340	0.338	0.6	97	0.00
62	S	4-Bromofluorobenzene	0.466	0.451	3.2	88	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.333	0.327	1.8	102	0.00
65	PM	Chlorobenzene	1.119	1.038	7.2	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.376	3.3	97	0.00
67	C	Ethyl Benzene	1.867	1.850	0.9#	95	0.00
68	T	m/p-Xylenes	0.707	0.721	-2.0	96	0.00
69	T	o-Xylene	0.661	0.681	-3.0	96	0.00
70	T	Styrene	1.154	1.181	-2.3	95	0.00
71	P	Bromoform	0.293	0.294	-0.3	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73	T	Isopropylbenzene	3.504	3.470	1.0	96	0.00
74	T	N-amyl acetate	1.491	1.455	2.4	94	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.079	7.8	99	0.00
76	T	1,2,3-Trichloropropane	0.999	0.885	11.4	98	0.00
77	T	Bromobenzene	0.942	0.874	7.2	98	0.00
78	T	n-propylbenzene	4.106	4.064	1.0	95	0.00
79	T	2-Chlorotoluene	2.683	2.587	3.6	97	0.00
80	T	1,3,5-Trimethylbenzene	2.904	2.955	-1.8	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.383	9.0	94	0.00
82	T	4-Chlorotoluene	2.823	2.603	7.8	94	0.00
83	T	tert-Butylbenzene	2.403	2.497	-3.9	97	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.067	-2.3	96	0.00
85	T	sec-Butylbenzene	3.395	3.394	0.0	95	0.00
86	T	p-Isopropyltoluene	2.784	2.896	-4.0	94	0.00
87	T	1,3-Dichlorobenzene	1.838	1.617	12.0	96	0.00
88	T	1,4-Dichlorobenzene	1.937	1.621	16.3	95	0.00
89	T	n-Butylbenzene	2.605	2.423	7.0	91	0.00
90	T	Hexachloroethane	0.621	0.569	8.4	95	0.00
91	T	1,2-Dichlorobenzene	1.766	1.620	8.3	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.209	11.8	95	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.796	17.7	91	0.00
94	T	Hexachlorobutadiene	0.425	0.340	20.0	91	0.00
95	T	Naphthalene	2.894	2.550	11.9	90	0.00

Sample Results: **VN084628.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.939	0.784	16.5	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VN084628.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	50.000	46.826	6.3	96	0.00
3	P	Chloromethane	50.000	42.778	14.4	86	0.00
4	C	Vinyl Chloride	50.000	45.789	8.4#	92	0.00
5	T	Bromomethane	50.000	44.031	11.9	96	-0.05
6	T	Chloroethane	50.000	47.426	5.1	95	-0.05
7	T	Trichlorofluoromethane	50.000	46.369	7.3	97	-0.03
8	T	Diethyl Ether	50.000	47.349	5.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.675	4.7	97	-0.01
10	T	Methyl Iodide	50.000	45.919	8.2	95	-0.02
11	T	Tert butyl alcohol	250.000	209.166	16.3	91	0.01
12	CM	1,1-Dichloroethene	50.000	44.115	11.8#	92	-0.02
13	T	Acrolein	250.000	266.751	-6.7	114	0.00
14	T	Allyl chloride	50.000	46.819	6.4	93	-0.01
15	T	Acrylonitrile	250.000	241.071	3.6	97	0.00
16	T	Acetone	250.000	244.929	2.0	99	0.00
17	T	Carbon Disulfide	50.000	42.191	15.6	91	-0.01
18	T	Methyl Acetate	50.000	44.902	10.2	91	0.00
19	T	Methyl tert-butyl Ether	50.000	49.289	1.4	97	0.00
20	T	Methylene Chloride	50.000	47.096	5.8	98	-0.01
21	T	trans-1,2-Dichloroethene	50.000	46.339	7.3	95	-0.01
22	T	Diisopropyl ether	50.000	49.533	0.9	97	0.00
23	T	Vinyl Acetate	250.000	250.398	-0.2	96	0.00
24	P	1,1-Dichloroethane	50.000	47.516	5.0	97	0.00
25	T	2-Butanone	250.000	241.790	3.3	102	0.00
26	T	2,2-Dichloropropane	50.000	48.449	3.1	97	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.758	4.5	97	0.00
28	T	Bromochloromethane	50.000	56.020	-12.0	95	0.00
29	T	Tetrahydrofuran	250.000	247.530	1.0	98	0.00
30	C	Chloroform	50.000	48.069	3.9#	98	0.00
31	T	Cyclohexane	50.000	44.014	12.0	92	0.00
32	T	1,1,1-Trichloroethane	50.000	47.362	5.3	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	44.583	10.8	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35	S	Dibromofluoromethane	50.000	47.992	4.0	91	0.00
36	T	1,1-Dichloropropene	50.000	47.960	4.1	96	0.00
37	T	Ethyl Acetate	50.000	50.445	-0.9	98	0.00
38	T	Carbon Tetrachloride	50.000	48.951	2.1	96	0.00
39	T	Methylcyclohexane	50.000	51.312	-2.6	93	0.00
40	TM	Benzene	50.000	48.319	3.4	97	0.00
41	T	Methacrylonitrile	50.000	53.631	-7.3	96	0.00
42	TM	1,2-Dichloroethane	50.000	49.594	0.8	94	0.00
43	T	Isopropyl Acetate	50.000	46.323	7.4	93	0.00
44	TM	Trichloroethene	50.000	46.787	6.4	93	0.00
45	C	1,2-Dichloropropane	50.000	50.327	-0.7#	98	0.00
46	T	Dibromomethane	50.000	50.221	-0.4	99	0.00
47	T	Bromodichloromethane	50.000	49.601	0.8	96	0.00
48	T	Methyl methacrylate	50.000	53.047	-6.1	98	0.00

Sample Results: **VN084628.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1072.921	-7.3	100	0.00
50	S	Toluene-d8	50.000	47.545	4.9	87	0.00
51	T	4-Methyl-2-Pentanone	250.000	264.740	-5.9	98	0.00
52	CM	Toluene	50.000	51.353	-2.7#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	47.438	5.1	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.152	1.7	94	0.00
55	T	1,1,2-Trichloroethane	50.000	49.815	0.4	97	0.00
56	T	Ethyl methacrylate	50.000	54.790	-9.6	94	0.00
57	T	1,3-Dichloropropane	50.000	50.388	-0.8	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	293.256	-17.3	97	0.00
59	T	2-Hexanone	250.000	267.380	-7.0	98	0.00
60	T	Dibromochloromethane	50.000	52.956	-5.9	98	0.00
61	T	1,2-Dibromoethane	50.000	49.699	0.6	97	0.00
62	S	4-Bromofluorobenzene	50.000	48.418	3.2	88	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	49.207	1.6	102	0.00
65	PM	Chlorobenzene	50.000	46.410	7.2	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.299	3.4	97	0.00
67	C	Ethyl Benzene	50.000	49.531	0.9#	95	0.00
68	T	m/p-Xylenes	100.000	101.948	-1.9	96	0.00
69	T	o-Xylene	50.000	51.466	-2.9	96	0.00
70	T	Styrene	50.000	51.179	-2.4	95	0.00
71	P	Bromoform	50.000	50.263	-0.5	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73	T	Isopropylbenzene	50.000	49.514	1.0	96	0.00
74	T	N-amyl acetate	50.000	48.799	2.4	94	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.136	7.7	99	0.00
76	T	1,2,3-Trichloropropane	50.000	44.254	11.5	98	0.00
77	T	Bromobenzene	50.000	46.399	7.2	98	0.00
78	T	n-propylbenzene	50.000	49.493	1.0	95	0.00
79	T	2-Chlorotoluene	50.000	48.213	3.6	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.871	-1.7	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.512	9.0	94	0.00
82	T	4-Chlorotoluene	50.000	46.096	7.8	94	0.00
83	T	tert-Butylbenzene	50.000	51.939	-3.9	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.171	-2.3	96	0.00
85	T	sec-Butylbenzene	50.000	49.984	0.0	95	0.00
86	T	p-Isopropyltoluene	50.000	52.012	-4.0	94	0.00
87	T	1,3-Dichlorobenzene	50.000	43.977	12.0	96	0.00
88	T	1,4-Dichlorobenzene	50.000	48.021	4.0	95	0.00
89	T	n-Butylbenzene	50.000	46.517	7.0	91	0.00
90	T	Hexachloroethane	50.000	45.835	8.3	95	0.00
91	T	1,2-Dichlorobenzene	50.000	45.845	8.3	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.085	11.8	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	41.167	17.7	91	0.00
94	T	Hexachlorobutadiene	50.000	40.091	19.8	91	0.00
95	T	Naphthalene	50.000	44.063	11.9	90	0.00

Sample Results: **VN084628.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084628.D
Acq On : 01 Nov 2024 10:22
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 04:22:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	41.757	16.5	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

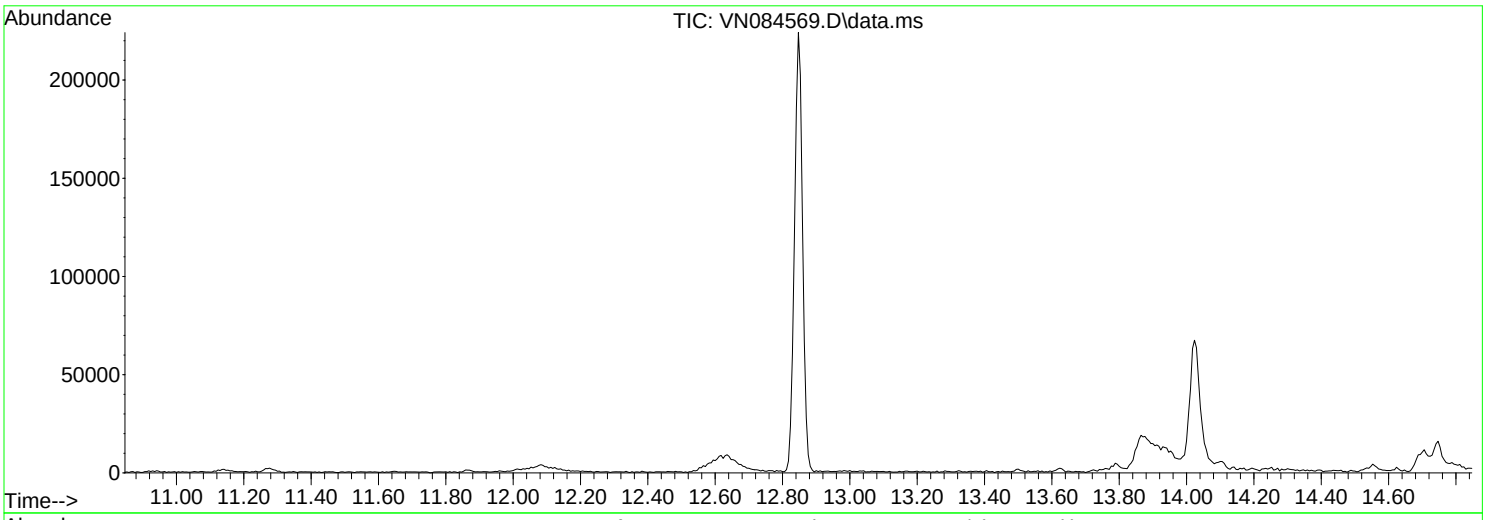
Sample Results: **VN084569.D**

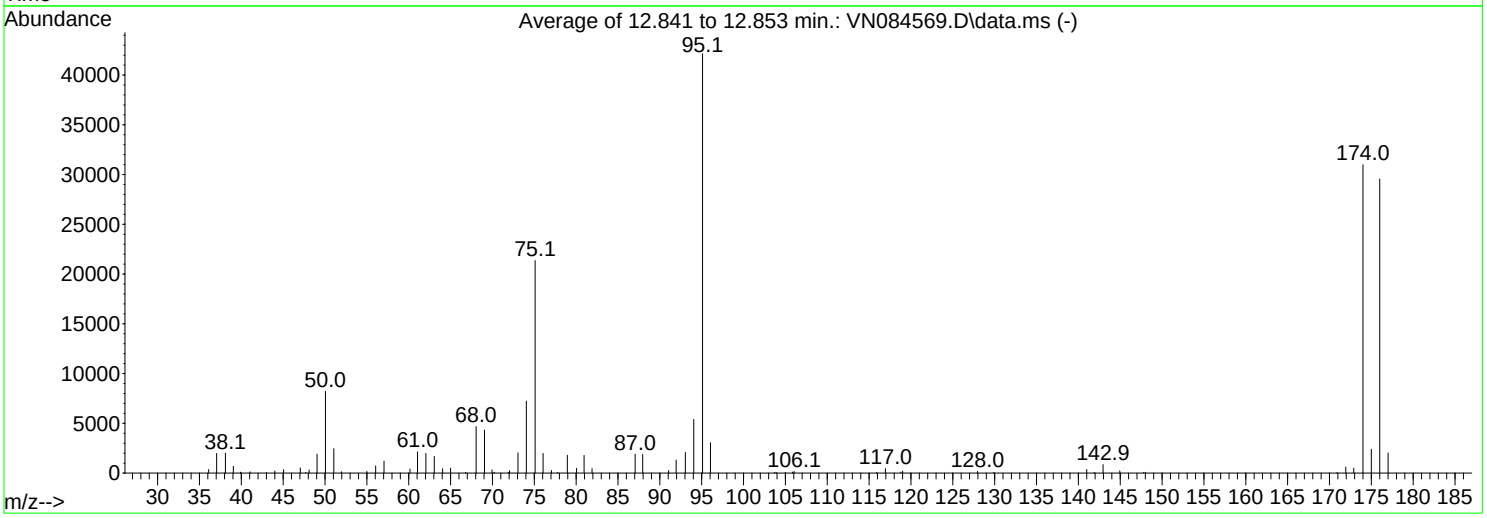
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084569.D
Acq On : 30 Oct 2024 10:42
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	8210	PASS
75	95	30	60	50.7	21357	PASS
95	95	100	100	100.0	42141	PASS
96	95	5	9	7.2	3053	PASS
173	174	0.00	2	1.6	502	PASS
174	95	50	100	73.5	30984	PASS
175	174	5	9	7.7	2392	PASS
176	174	95	101	95.4	29560	PASS
177	176	5	9	6.9	2026	PASS

Average of 12.841 to 12.853 min.: VN084569.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	359	48.10	321	63.05	1677	74.05	7235
37.05	1972	49.05	1905	64.05	441	75.10	21357
38.10	2004	50.05	8210	65.00	496	76.05	1981
39.05	674	51.05	2454	66.80	70	77.05	266
39.90	98	51.95	137	68.05	4674	77.80	63
41.05	129	55.00	174	69.05	4327	78.95	1789
43.00	58	56.05	724	69.95	329	80.05	481
44.00	211	57.05	1205	70.20	94	80.95	1784
45.05	351	60.15	415	71.90	82	81.90	450
47.05	515	61.05	2127	72.05	237	87.05	1893
47.70	66	62.05	1973	73.05	2035	87.95	1870

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084569.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	256	115.90	54	148.00	75		
91.95	1316	116.95	438	170.90	52		
93.05	2070	118.80	90	171.95	607		
94.05	5401	119.00	202	172.90	502		
95.10	42141	127.95	162	174.00	30984		
96.05	3053	129.90	69	175.00	2392		
103.70	65	141.00	358	176.00	29560		
103.90	65	141.90	66	177.00	2026		
105.00	53	142.95	857				
105.85	107	144.95	228				
106.05	162	147.80	53				

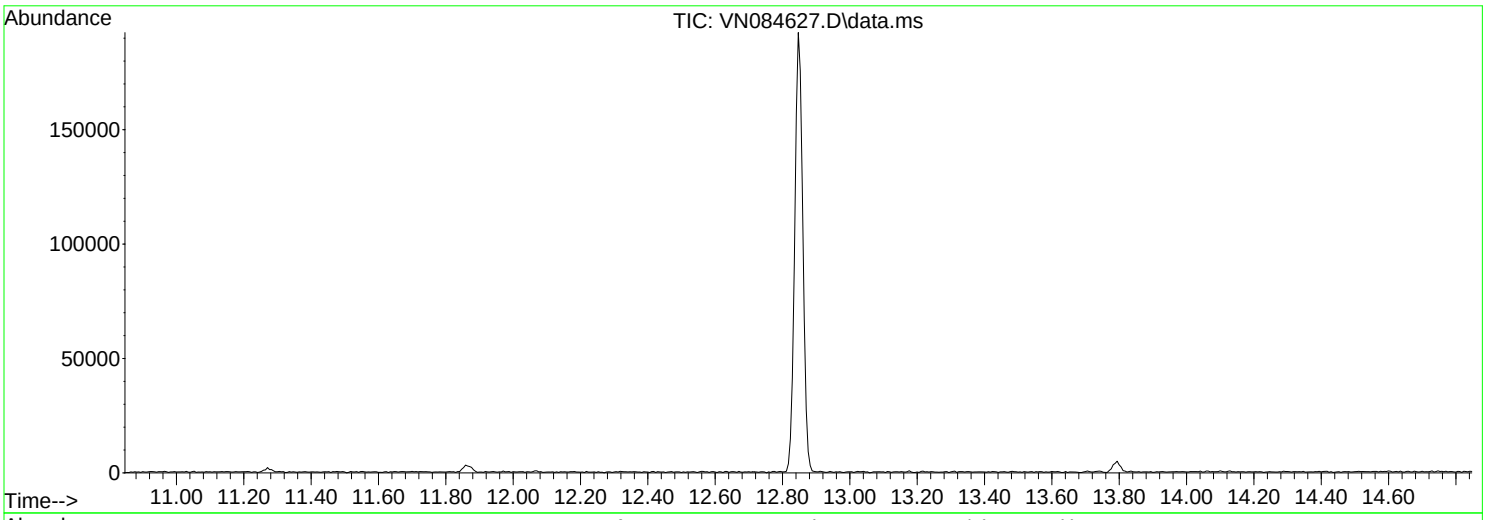
Sample Results: **VN084627.D**

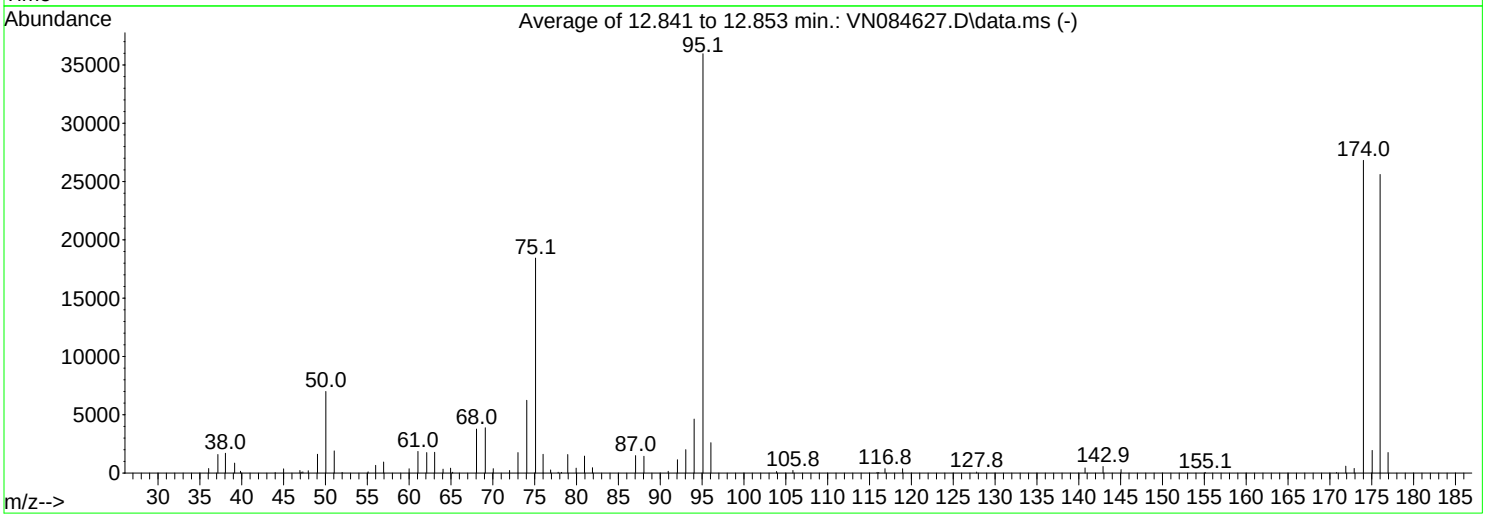
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084627.D
Acq On : 01 Nov 2024 09:48
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	7000	PASS
75	95	30	60	51.3	18438	PASS
95	95	100	100	100.0	35963	PASS
96	95	5	9	7.2	2604	PASS
173	174	0.00	2	1.5	400	PASS
174	95	50	100	74.6	26821	PASS
175	174	5	9	7.2	1944	PASS
176	174	95	101	95.5	25611	PASS
177	176	5	9	6.9	1760	PASS

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBL01	SDG No.:	P4658
Lab Sample ID:	VN1101WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084630.D	1		11/01/24 11:29	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN084630.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBL01	SDG No.:	P4658
Lab Sample ID:	VN1101WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084630.D	1		11/01/24 11:29	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	47.4		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	8.224			
540-36-3	1,4-Difluorobenzene	319000	9.1			
3114-55-4	Chlorobenzene-d5	286000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.788			

Raw Data: **VN084630.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBL01	SDG No.:	P4658
Lab Sample ID:	VN1101WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084630.D	1		11/01/24 11:29	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Time: Nov 04 04:23:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	180035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318575	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285991	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	134085	51.565	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.120%			
35) Dibromofluoromethane	8.159	113	107465	49.836	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.680%			
50) Toluene-d8	10.565	98	376240	47.365	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.740%			
62) 4-Bromofluorobenzene	12.847	95	139006	46.824	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.640%			

Target Compounds Qvalue

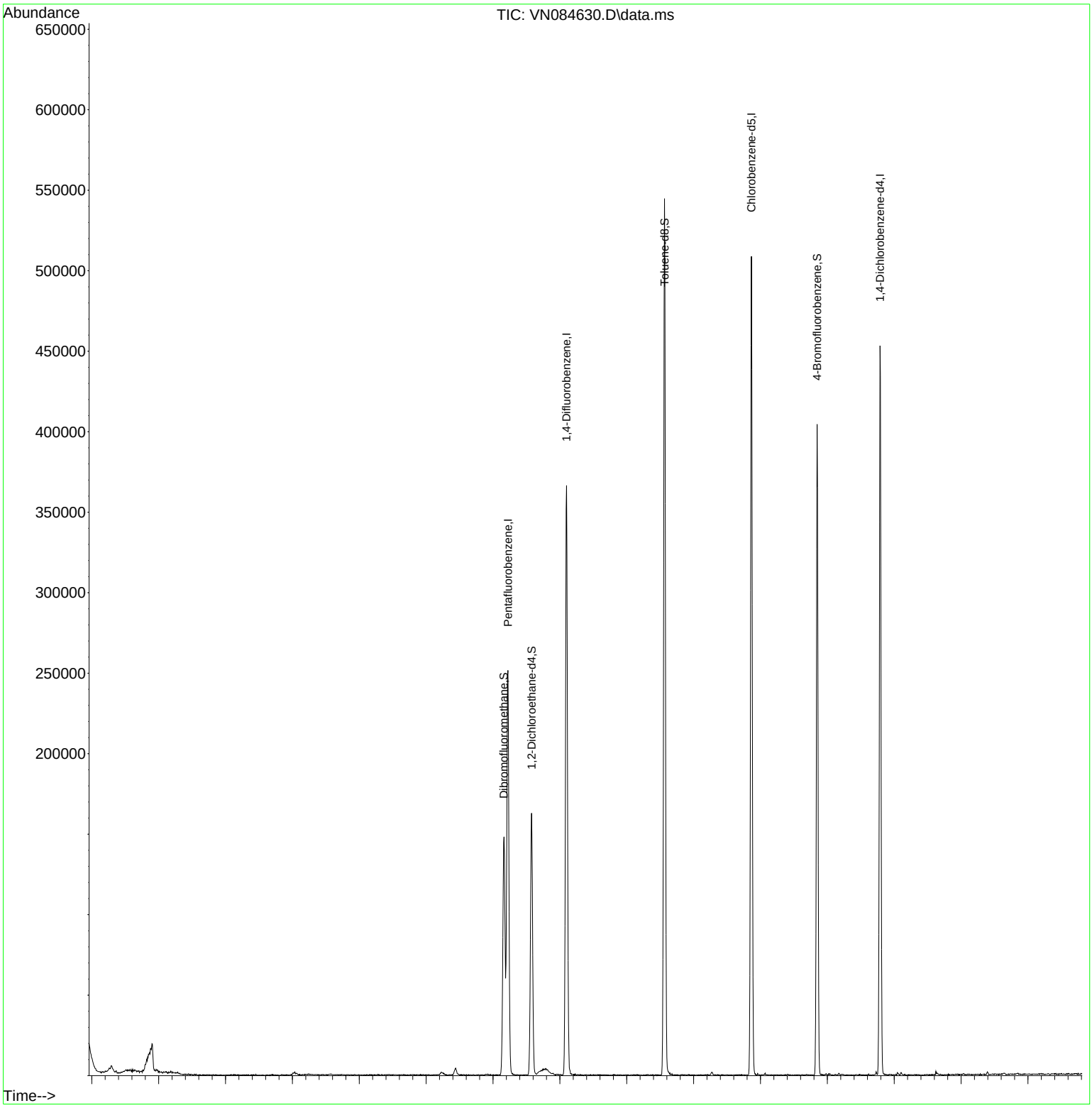
(#) = qualifier out of range (m) = manual integration (+) = signals summed

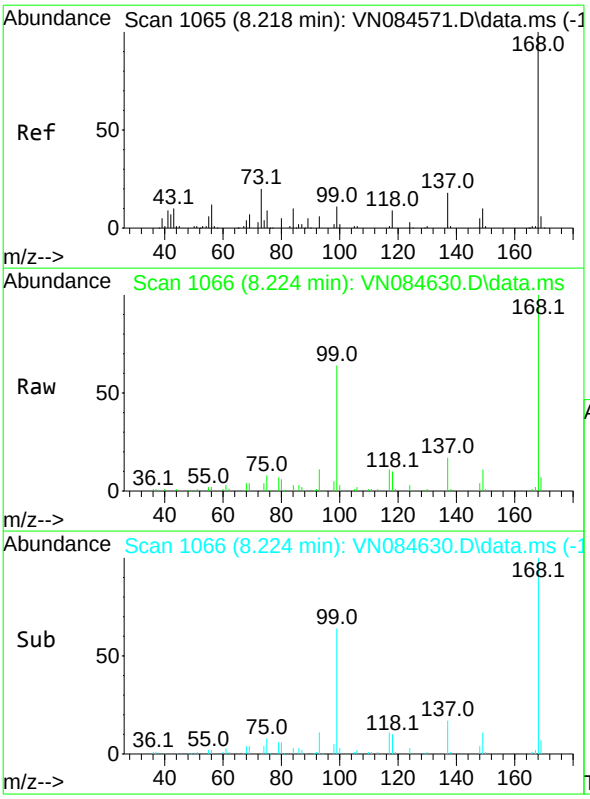
Sample Results: **VN084630.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Time: Nov 04 04:23:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



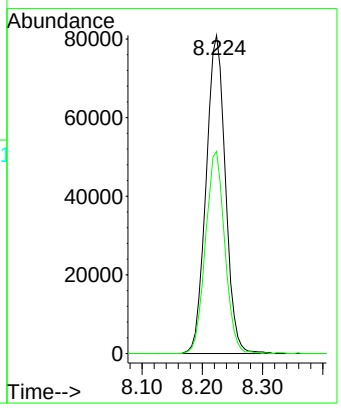


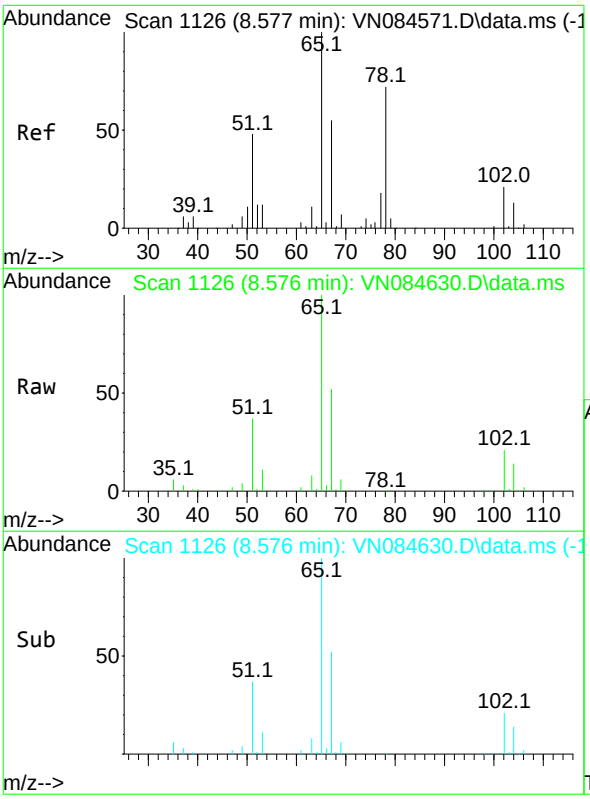
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Tgt Ion:168 Resp: 180035

Ion	Ratio	Lower	Upper
168	100		
99	63.5	54.2	81.2

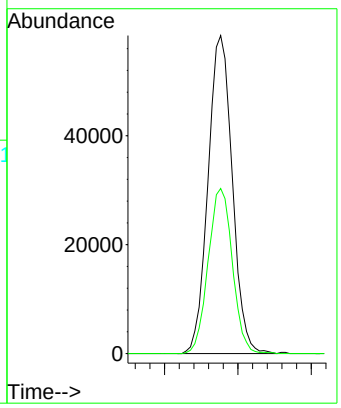


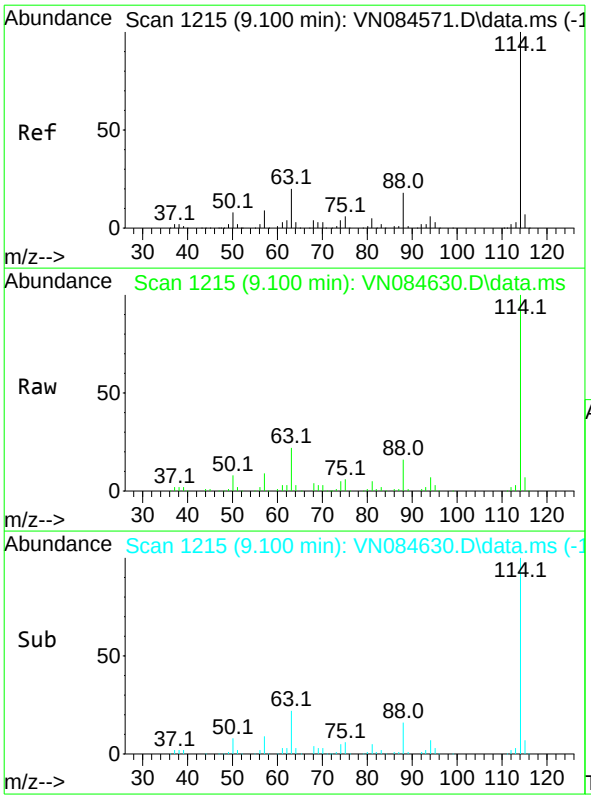


#33
1,2-Dichloroethane-d4
Concen: 51.565 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Tgt Ion: 65 Resp: 134085

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	102.0



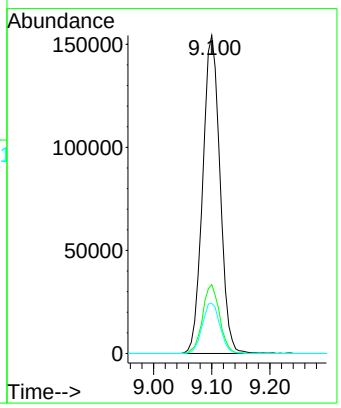


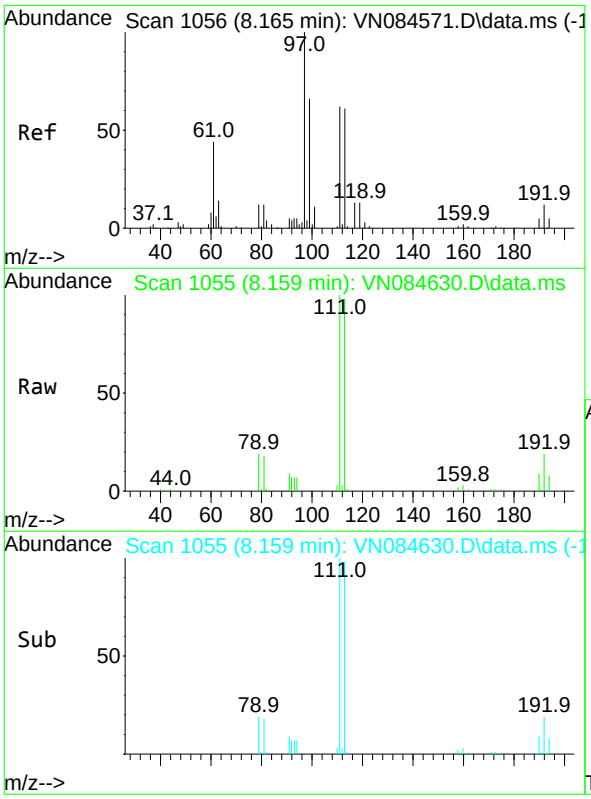
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Tgt Ion:114 Resp: 318575

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.8
88	15.7	0.0	31.6

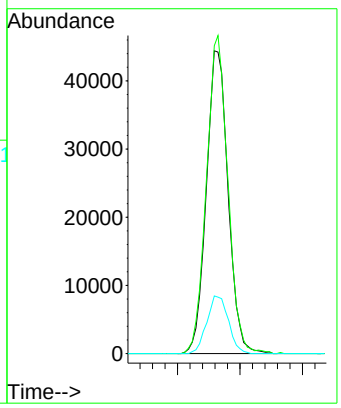


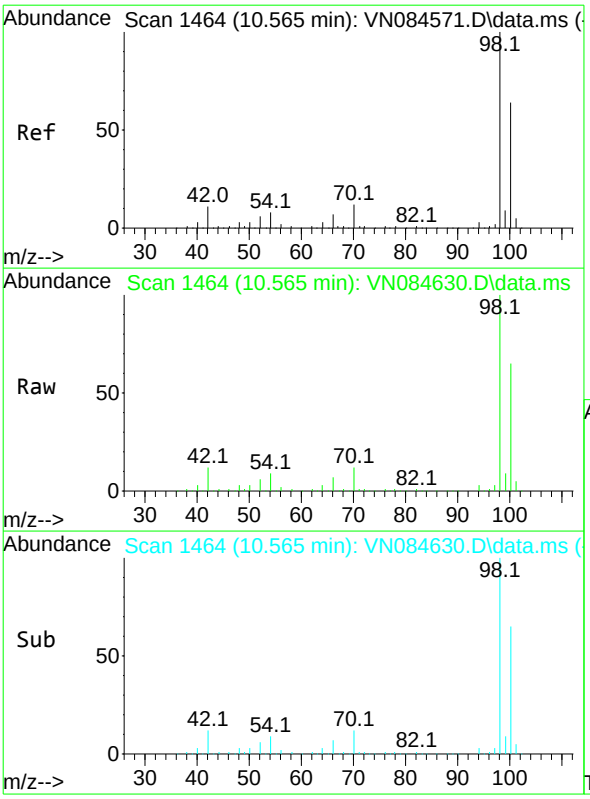


#35
Dibromofluoromethane
Concen: 49.836 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Tgt Ion:113 Resp: 107465

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	18.8	13.5	20.3



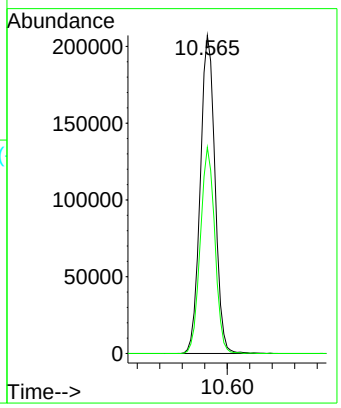


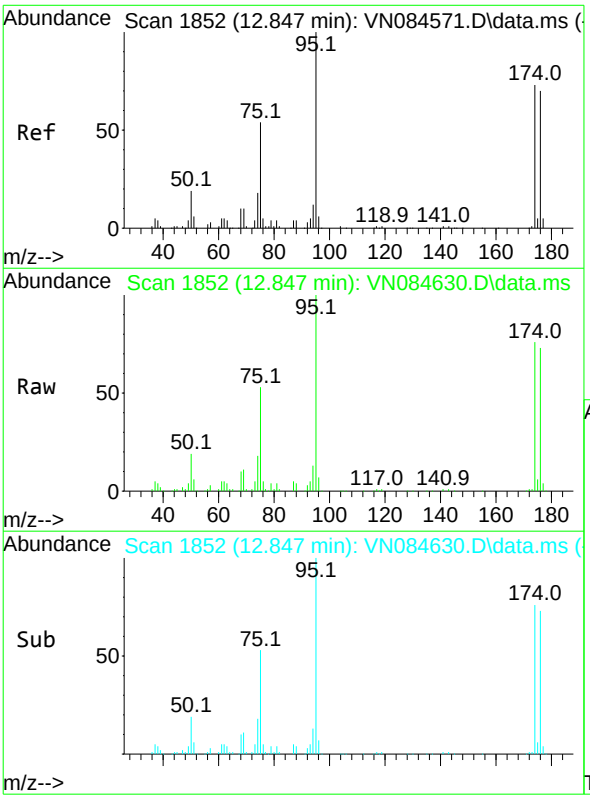
#50
Toluene-d8
Concen: 47.365 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Tgt Ion: 98 Resp: 376240

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.7	79.1

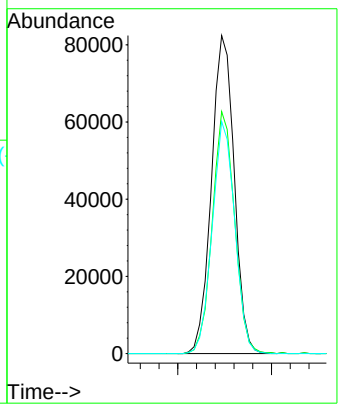


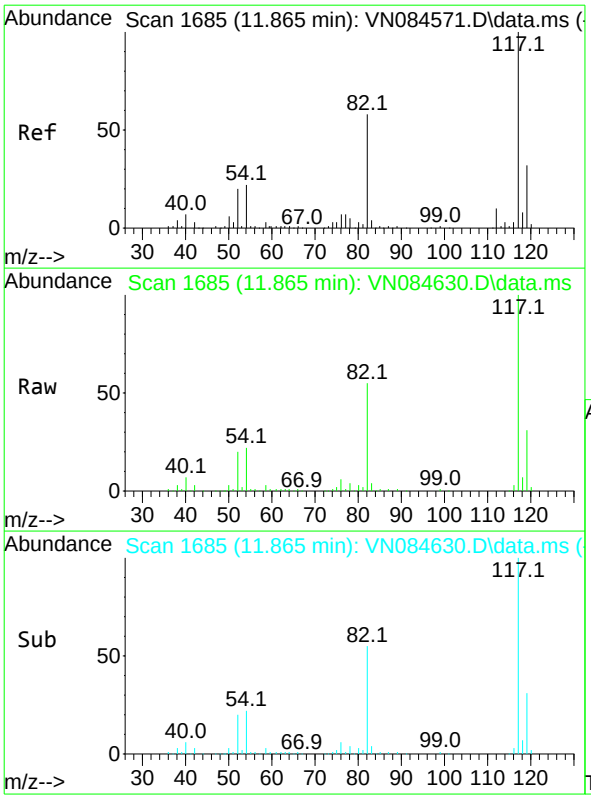


#62
4-Bromofluorobenzene
Concen: 46.824 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Tgt Ion: 95 Resp: 139006

Ion	Ratio	Lower	Upper
95	100		
174	74.7	0.0	145.2
176	72.2	0.0	140.0



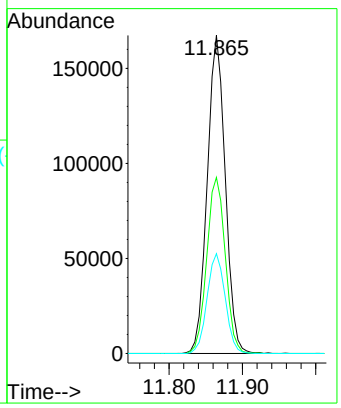


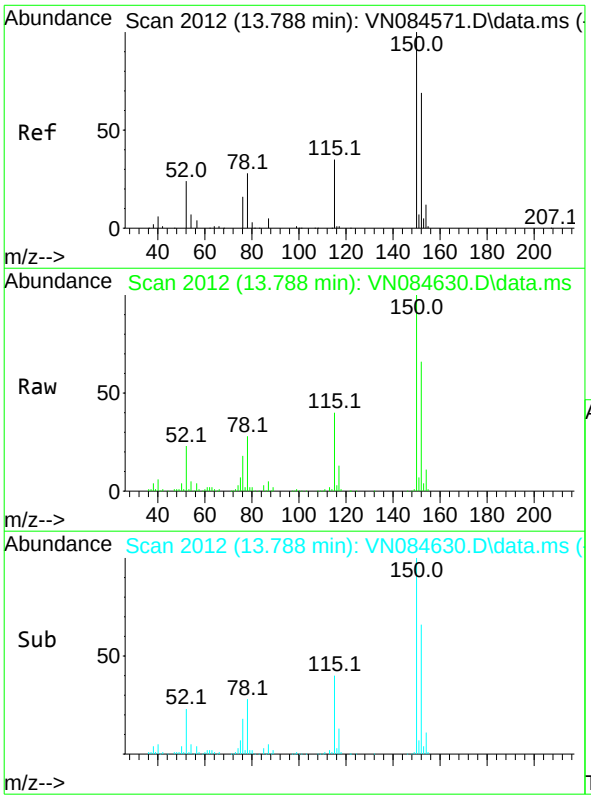
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Tgt Ion:117 Resp: 285991

Ion	Ratio	Lower	Upper
117	100		
82	55.4	47.2	70.8
119	31.4	25.4	38.0

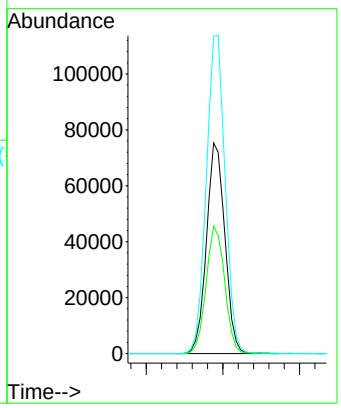




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084630.D
Acq: 01 Nov 2024 11:29

Tgt Ion:152 Resp: 125664

Ion	Ratio	Lower	Upper
152	100		
115	60.9	31.3	93.9
150	154.9	0.0	349.8



Sample Results: **VN084630.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084630.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.900	159	161	167	rVB2	16708	23699	2.40%	0.443%
2	7.441	924	933	940	rBV2	4311	10250	1.04%	0.191%
3	8.165	1046	1056	1060	rBV	148145	346437	35.10%	6.469%
4	8.224	1060	1066	1077	rVB	250837	566865	57.43%	10.586%
5	8.576	1116	1126	1139	rBV	162571	362771	36.76%	6.774%
6	9.100	1205	1215	1225	rBV	366220	754715	76.47%	14.093%
7	10.565	1455	1464	1477	rBV	544611	986986	100.00%	18.431%
8	11.865	1677	1685	1696	rBV	508549	878010	88.96%	16.396%
9	12.847	1845	1852	1862	rBV	404332	664162	67.29%	12.402%
10	13.788	2005	2012	2023	rVB	452800	761197	77.12%	14.214%

Sum of corrected areas: 5355092

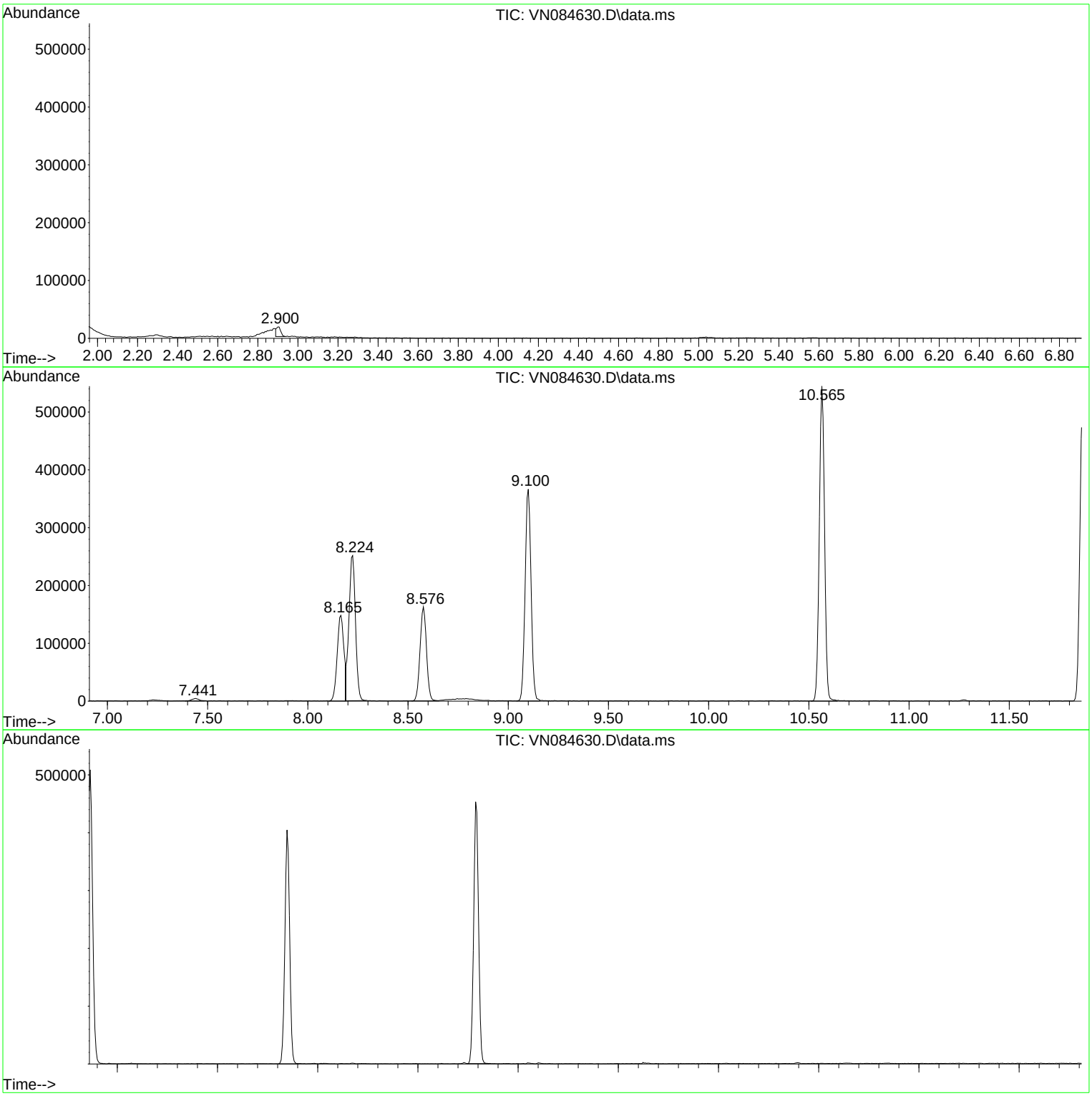
Sample Results: **VN084630.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084630.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084630.D
Acq On : 01 Nov 2024 11:29
Operator : JC\MD
Sample : VN1101WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBS01	SDG No.:	P4658
Lab Sample ID:	VN1101WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084631.D	1		11/01/24 12:08	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		0.21	1.00	ug/L
74-87-3	Chloromethane	16.4		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	1.00	ug/L
74-83-9	Bromomethane	18.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.7		0.26	1.00	ug/L
67-64-1	Acetone	96.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.3		1.60	5.00	ug/L
78-93-3	2-Butanone	96.7		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.5		0.18	1.00	ug/L
67-66-3	Chloroform	19.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.19	1.00	ug/L
71-43-2	Benzene	18.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.1		0.18	1.00	ug/L

Raw Data: **VN084631.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBS01	SDG No.:	P4658
Lab Sample ID:	VN1101WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084631.D	1		11/01/24 12:08	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.6		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	1.00	ug/L
100-42-5	Styrene	19.4		0.16	1.00	ug/L
75-25-2	Bromoform	19.0		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.1		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.8		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	14.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.3		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		70 (74) - 130 (125)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.1		70 (75) - 130 (124)	90%	SPK: 50
2037-26-5	Toluene-d8	46.1		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	191000	8.224			
540-36-3	1,4-Difluorobenzene	320000	9.1			
3114-55-4	Chlorobenzene-d5	288000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	147000	13.794			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBS01	SDG No.:	P4658
Lab Sample ID:	VN1101WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084631.D	1		11/01/24 12:08	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

Sample Results: **VN084631.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084631.D
Acq On : 01 Nov 2024 12:08
Operator : JC\MD
Sample : VN1101WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:24:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	190995	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	320452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147052	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122248	44.315	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.640%		
35) Dibromofluoromethane	8.165	113	97927	45.147	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.300%		
50) Toluene-d8	10.565	98	368236	46.086	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.180%		
62) 4-Bromofluorobenzene	12.847	95	140490	47.047	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	42141	19.193	ug/l	100
3) Chloromethane	2.359	50	46710	16.439	ug/l	100
4) Vinyl Chloride	2.507	62	44544	18.862	ug/l	97
5) Bromomethane	2.901	94	22475	17.963	ug/l	97
6) Chloroethane	3.077	64	27854	18.166	ug/l	99
7) Trichlorofluoromethane	3.471	101	73135	18.800	ug/l	91
8) Diethyl Ether	3.959	74	24492	17.848	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	42530	19.348	ug/l	97
10) Methyl Iodide	4.583	142	53226	18.118	ug/l	96
11) Tert butyl alcohol	5.542	59	31560	86.672	ug/l	97
12) 1,1-Dichloroethene	4.330	96	38487	17.695	ug/l	98
13) Acrolein	4.177	56	36832	101.438	ug/l	98
14) Allyl chloride	5.018	41	65987	18.707	ug/l	91
15) Acrylonitrile	5.718	53	103209	97.908	ug/l	98
16) Acetone	4.436	43	77869	95.962	ug/l	97
17) Carbon Disulfide	4.700	76	112044	16.728	ug/l	98
18) Methyl Acetate	5.024	43	54615	16.052	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	127569	19.135	ug/l	94
20) Methylene Chloride	5.271	84	46004	18.961	ug/l	82
21) trans-1,2-Dichloroethene	5.777	96	41275	18.481	ug/l	96
22) Diisopropyl ether	6.671	45	136454	19.469	ug/l	98
23) Vinyl Acetate	6.600	43	469366	97.108	ug/l	97
24) 1,1-Dichloroethane	6.565	63	80215	19.063	ug/l	98
25) 2-Butanone	7.477	43	124468	96.713	ug/l	98
26) 2,2-Dichloropropane	7.489	77	70266	19.185	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	48039	18.421	ug/l	98
28) Bromochloromethane	7.806	49	36023	21.487	ug/l	93
29) Tetrahydrofuran	7.836	42	84907	99.446	ug/l	97
30) Chloroform	7.965	83	83941	19.599	ug/l	97
31) Cyclohexane	8.253	56	69789	18.324	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	75478	19.362	ug/l	98
36) 1,1-Dichloropropene	8.365	75	54975	18.275	ug/l	99
37) Ethyl Acetate	7.559	43	55210	20.228	ug/l	97
38) Carbon Tetrachloride	8.359	117	66382	19.742	ug/l	98
39) Methylcyclohexane	9.600	83	56415	18.434	ug/l	98
40) Benzene	8.606	78	181197	18.756	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084631.D
Acq On : 01 Nov 2024 12:08
Operator : JC\MD
Sample : VN1101WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:24:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	30555	20.818 ug/l		97
42) 1,2-Dichloroethane	8.665	62	60923	19.472 ug/l		100
43) Isopropyl Acetate	8.688	43	91436	17.507 ug/l		97
44) Trichloroethene	9.347	130	41099	18.446 ug/l		100
45) 1,2-Dichloropropane	9.618	63	43224	19.073 ug/l		99
46) Dibromomethane	9.706	93	30391	19.005 ug/l		96
47) Bromodichloromethane	9.888	83	64821	19.230 ug/l	#	96
48) Methyl methacrylate	9.677	41	42680	20.092 ug/l		98
49) 1,4-Dioxane	9.694	88	15461	410.740 ug/l	#	79
51) 4-Methyl-2-Pentanone	10.447	43	272747	104.826 ug/l		99
52) Toluene	10.630	92	113778	20.137 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	61679	17.677 ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	69008	18.686 ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	42540	19.987 ug/l		95
56) Ethyl methacrylate	10.877	69	62329	20.246 ug/l		97
57) 1,3-Dichloropropane	11.159	76	71264	19.510 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	137645	95.550 ug/l		99
59) 2-Hexanone	11.194	43	201434	106.361 ug/l		99
60) Dibromochloromethane	11.359	129	49329	20.336 ug/l		100
61) 1,2-Dibromoethane	11.465	107	41441	19.014 ug/l		100
64) Tetrachloroethene	11.106	164	35660	18.628 ug/l		99
65) Chlorobenzene	11.888	112	117685	18.278 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	42403	18.934 ug/l		99
67) Ethyl Benzene	11.965	91	202367	18.829 ug/l		98
68) m/p-Xylenes	12.071	106	158415	38.934 ug/l		99
69) o-Xylene	12.394	106	75949	19.953 ug/l		98
70) Styrene	12.412	104	128771	19.394 ug/l		99
71) Bromoform	12.576	173	31965	18.968 ug/l	#	97
73) Isopropylbenzene	12.694	105	190126	18.450 ug/l		99
74) N-amyl acetate	12.494	43	79438	18.112 ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	62261	18.101 ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	49964m	16.997 ug/l		
77) Bromobenzene	12.982	156	48929	17.662 ug/l		93
78) n-propylbenzene	13.035	91	220072	18.224 ug/l		98
79) 2-Chlorotoluene	13.123	91	145506	18.441 ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	164177	19.222 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	24782	20.001 ug/l	#	84
82) 4-Chlorotoluene	13.218	91	146733	17.670 ug/l		98
83) tert-Butylbenzene	13.435	119	138949	19.657 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	169251	19.200 ug/l		99
85) sec-Butylbenzene	13.618	105	185297	18.558 ug/l		100
86) p-Isopropyltoluene	13.729	119	157950	19.288 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	91095	16.849 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	89211	17.266 ug/l		99
89) n-Butylbenzene	14.059	91	126030	16.453 ug/l		99
90) Hexachloroethane	14.335	117	31832	17.431 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	88346	17.005 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12487	17.920 ug/l		95
93) 1,2,4-Trichlorobenzene	15.394	180	41786	14.695 ug/l		98
94) Hexachlorobutadiene	15.500	225	19729	15.799 ug/l		98
95) Naphthalene	15.641	128	130709	15.357 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	42159	15.273 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084631.D
Acq On : 01 Nov 2024 12:08
Operator : JC\MD
Sample : VN1101WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:24:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

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

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

Sample Results: **VN084631.D**

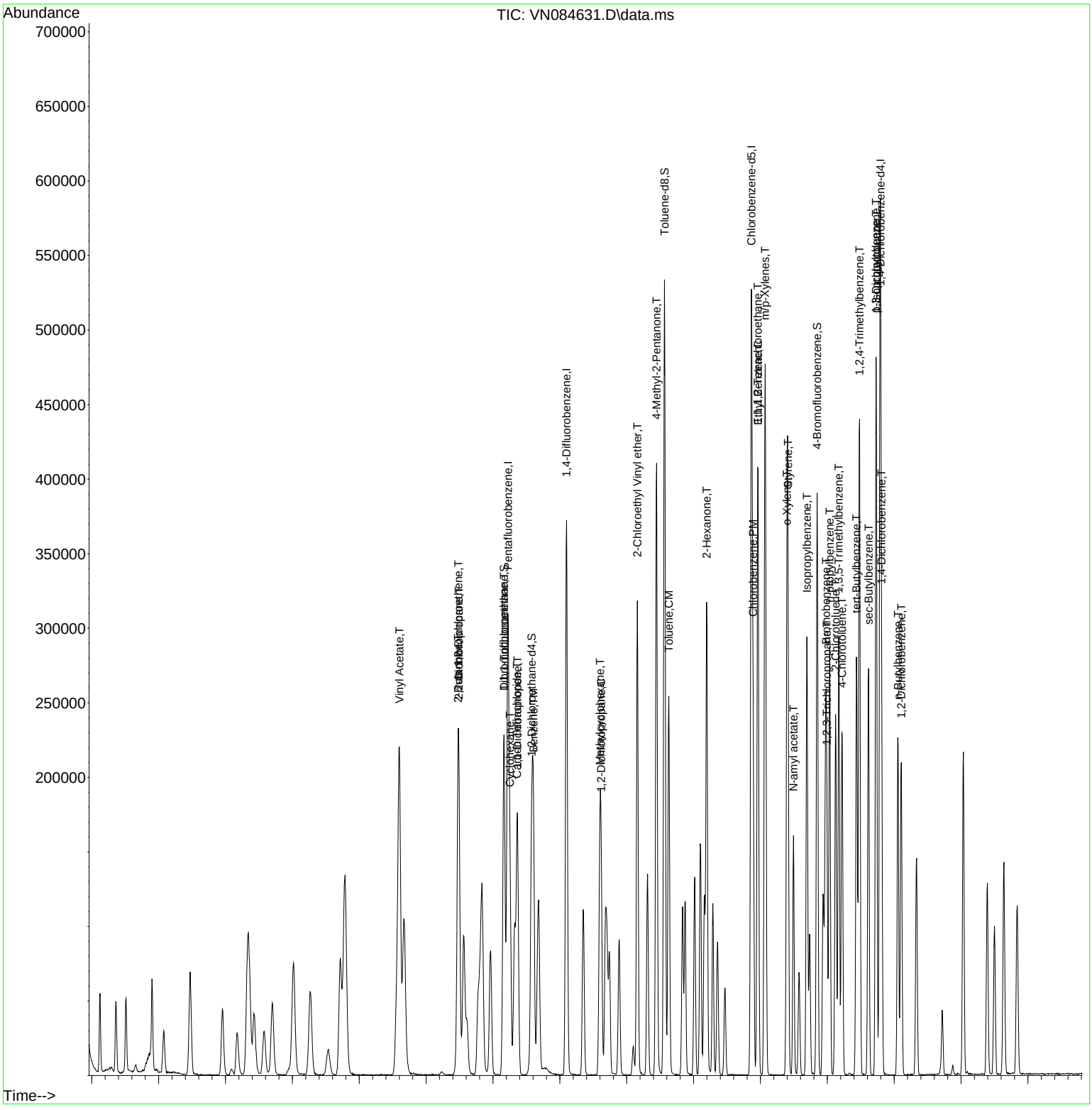
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084631.D
Acq On : 01 Nov 2024 12:08
Operator : JC\MD
Sample : VN1101WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:24:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBSD01	SDG No.:	P4658
Lab Sample ID:	VN1101WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084632.D	1		11/01/24 12:32	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	16.8		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	1.00	ug/L
74-83-9	Bromomethane	18.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.1		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.2		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.5		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.1		0.18	1.00	ug/L
67-66-3	Chloroform	20.1		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.1		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.6		0.19	1.00	ug/L
71-43-2	Benzene	19.4		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.1		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	20.8		0.18	1.00	ug/L

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBSD01	SDG No.:	P4658
Lab Sample ID:	VN1101WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084632.D	1		11/01/24 12:32	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.3		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	2.00	ug/L
95-47-6	o-Xylene	20.1		0.14	1.00	ug/L
100-42-5	Styrene	20.2		0.16	1.00	ug/L
75-25-2	Bromoform	19.5		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.7		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.5		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.2		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.0		70 (74) - 130 (125)	90%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		70 (75) - 130 (124)	93%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	8.224			
540-36-3	1,4-Difluorobenzene	304000	9.1			
3114-55-4	Chlorobenzene-d5	276000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	140000	13.788			

Raw Data: **VN084632.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1101WBSD01	SDG No.:	P4658
Lab Sample ID:	VN1101WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084632.D	1		11/01/24 12:32	VN110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

Sample Results: **VN084632.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084632.D
Acq On : 01 Nov 2024 12:32
Operator : JC\MD
Sample : VN1101WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:25:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	179647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	303928	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276373	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	139639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116705	44.978	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.960%			
35) Dibromofluoromethane	8.165	113	95578	46.460	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.920%			
50) Toluene-d8	10.565	98	350812	46.293	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.580%			
62) 4-Bromofluorobenzene	12.847	95	131770	46.526	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	39968	19.353	ug/l	97
3) Chloromethane	2.365	50	44651	16.750	ug/l	100
4) Vinyl Chloride	2.512	62	41926	18.875	ug/l	96
5) Bromomethane	2.901	94	21697	18.436	ug/l	93
6) Chloroethane	3.071	64	27307	18.995	ug/l	95
7) Trichlorofluoromethane	3.465	101	73409	20.063	ug/l	94
8) Diethyl Ether	3.948	74	26516	20.543	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	40756	19.712	ug/l	96
10) Methyl Iodide	4.577	142	53396	19.324	ug/l	95
11) Tert butyl alcohol	5.542	59	32016	93.479	ug/l	98
12) 1,1-Dichloroethene	4.324	96	37823	18.488	ug/l	96
13) Acrolein	4.177	56	35001	102.484	ug/l	97
14) Allyl chloride	5.012	41	64716	19.506	ug/l	92
15) Acrylonitrile	5.718	53	104289	105.182	ug/l	98
16) Acetone	4.424	43	80384	105.601	ug/l	99
17) Carbon Disulfide	4.701	76	110433	17.529	ug/l	99
18) Methyl Acetate	5.012	43	56734	18.181	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	128070	20.424	ug/l	97
20) Methylene Chloride	5.271	84	44336	19.428	ug/l	86
21) trans-1,2-Dichloroethene	5.771	96	39898	18.993	ug/l	99
22) Diisopropyl ether	6.671	45	136989	20.780	ug/l	97
23) Vinyl Acetate	6.600	43	473087	104.061	ug/l	99
24) 1,1-Dichloroethane	6.559	63	78807	19.911	ug/l	96
25) 2-Butanone	7.483	43	126655	104.629	ug/l	99
26) 2,2-Dichloropropane	7.489	77	68278	19.820	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	48150	19.630	ug/l	98
28) Bromochloromethane	7.812	49	34905	22.135	ug/l	93
29) Tetrahydrofuran	7.841	42	83561	104.051	ug/l	96
30) Chloroform	7.959	83	80798	20.057	ug/l	96
31) Cyclohexane	8.253	56	69908	19.515	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	73597	20.072	ug/l	98
36) 1,1-Dichloropropene	8.365	75	54311	19.036	ug/l	99
37) Ethyl Acetate	7.559	43	54883	21.202	ug/l	98
38) Carbon Tetrachloride	8.359	117	63997	20.068	ug/l	98
39) Methylcyclohexane	9.600	83	56902	19.604	ug/l	99
40) Benzene	8.600	78	178059	19.433	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084632.D
Acq On : 01 Nov 2024 12:32
Operator : JC\MD
Sample : VN1101WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:25:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	29975	21.533	ug/l		96
42) 1,2-Dichloroethane	8.671	62	60410	20.358	ug/l		98
43) Isopropyl Acetate	8.688	43	94407	19.145	ug/l		99
44) Trichloroethene	9.347	130	40547	19.188	ug/l		97
45) 1,2-Dichloropropane	9.624	63	43144	20.073	ug/l		99
46) Dibromomethane	9.706	93	29954	19.750	ug/l		96
47) Bromodichloromethane	9.888	83	64340	20.125	ug/l		93
48) Methyl methacrylate	9.683	41	41114	20.408	ug/l		96
49) 1,4-Dioxane	9.700	88	15620	437.525	ug/l		95
51) 4-Methyl-2-Pentanone	10.447	43	269825	109.342	ug/l		99
52) Toluene	10.630	92	111675	20.840	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	63947	19.323	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	68709	19.617	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	42554	21.081	ug/l		94
56) Ethyl methacrylate	10.871	69	62143	21.283	ug/l		98
57) 1,3-Dichloropropane	11.159	76	70269	20.283	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	137129	100.367	ug/l		98
59) 2-Hexanone	11.194	43	194808	108.454	ug/l		97
60) Dibromochloromethane	11.359	129	48478	21.072	ug/l		100
61) 1,2-Dibromoethane	11.465	107	42488	20.554	ug/l		96
64) Tetrachloroethene	11.100	164	36361	19.779	ug/l		95
65) Chlorobenzene	11.888	112	116675	18.870	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	42973	19.982	ug/l		99
67) Ethyl Benzene	11.965	91	200430	19.420	ug/l		99
68) m/p-Xylenes	12.071	106	155447	39.784	ug/l		98
69) o-Xylene	12.400	106	73499	20.108	ug/l		98
70) Styrene	12.412	104	128498	20.153	ug/l		98
71) Bromoform	12.576	173	31565	19.505	ug/l	#	97
73) Isopropylbenzene	12.694	105	187731	19.185	ug/l		100
74) N-amyl acetate	12.494	43	80040	19.218	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	61000	18.676	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	50243m	18.000	ug/l		
77) Bromobenzene	12.976	156	48197	18.321	ug/l		93
78) n-propylbenzene	13.035	91	219361	19.130	ug/l		99
79) 2-Chlorotoluene	13.124	91	142054	18.959	ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	161079	19.861	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	21497	18.271	ug/l		97
82) 4-Chlorotoluene	13.218	91	143409	18.187	ug/l		97
83) tert-Butylbenzene	13.435	119	137807	20.530	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	164356	19.634	ug/l		98
85) sec-Butylbenzene	13.612	105	184495	19.458	ug/l		99
86) p-Isopropyltoluene	13.729	119	155045	19.939	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	89011	17.338	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	90455	18.501	ug/l		100
89) n-Butylbenzene	14.053	91	126197	17.349	ug/l		99
90) Hexachloroethane	14.329	117	30596	17.643	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	89620	18.166	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	12000	18.135	ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	43138	15.975	ug/l		99
94) Hexachlorobutadiene	15.500	225	19708	16.620	ug/l		98
95) Naphthalene	15.641	128	131737	16.299	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	42176	16.090	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084632.D
Acq On : 01 Nov 2024 12:32
Operator : JC\MD
Sample : VN1101WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:25:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024

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

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

Sample Results: **VN084632.D**

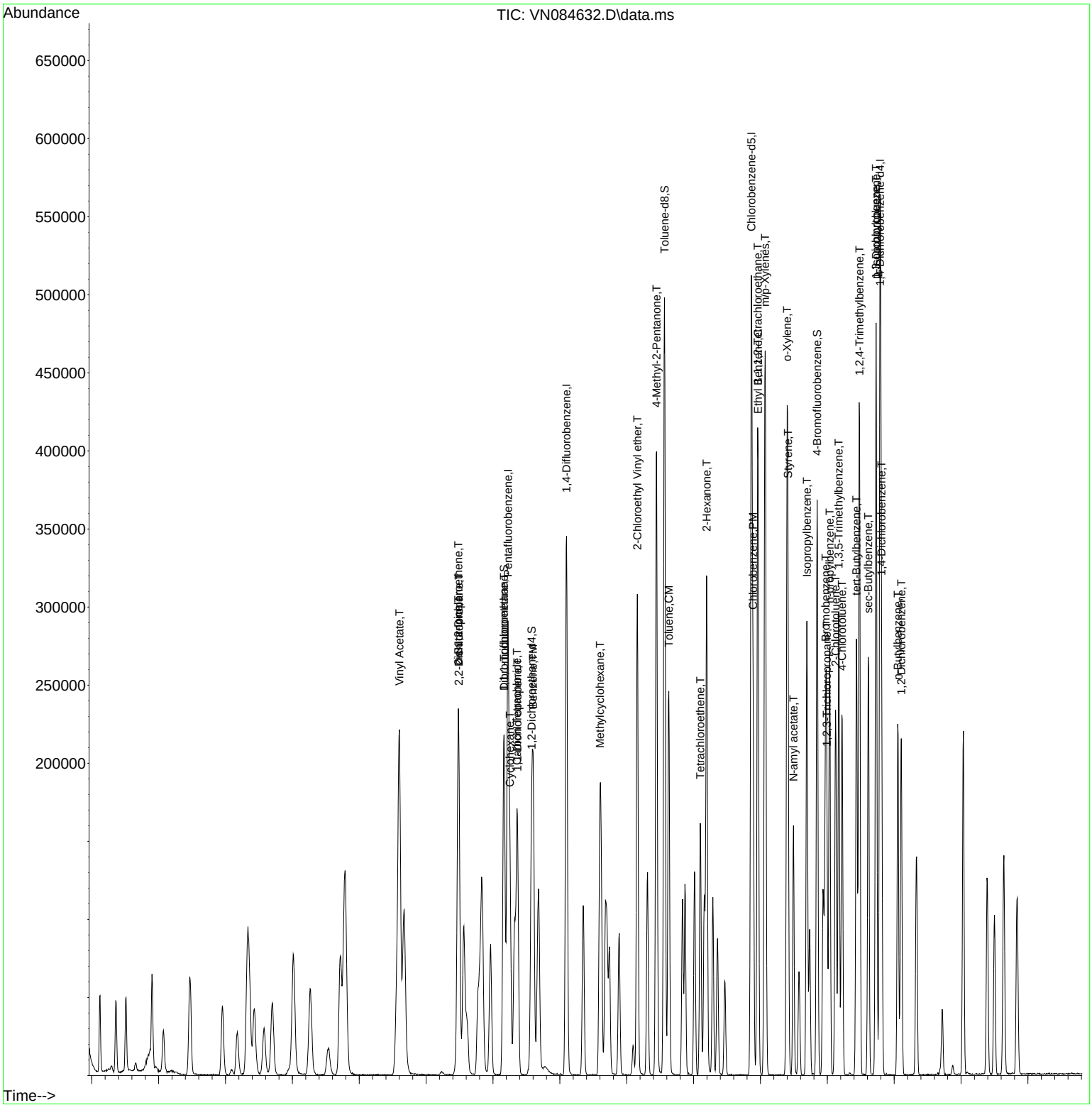
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110124\
Data File : VN084632.D
Acq On : 01 Nov 2024 12:32
Operator : JC\MD
Sample : VN1101WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 04:25:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1101WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/04/2024
Supervised By :Semsettin Yesilyurt 11/04/2024



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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	trans-1,4-Dichloro-2-but ene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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

Manual Integration Report

Sequence:	VN110124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084628.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:12 PM	SAM	11/4/2024 5:58:20 PM	Peak Integrated by Software
VN1101WBS01	VN084631.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:14 PM	SAM	11/4/2024 5:58:21 PM	Peak Integrated by Software
VN1101WBSD01	VN084632.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:16 PM	SAM	11/4/2024 5:58:23 PM	Peak Integrated by Software
VSTDCCC050	VN084643.D	1,2,3-Trichloropropane	MMDadoda	11/4/2024 5:57:22 PM	SAM	11/4/2024 5:58:27 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N		HP Processing Method	82n103024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:57:30 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:58:33 PM				
SubDirectory	VN110124	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131230
Initial Calibration Stds	
CCC	VP131233,VP131234
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084627.D	01 Nov 2024 09:48	JC\MD	Ok
2	VSTDCCC050	VN084628.D	01 Nov 2024 10:22	JC\MD	Ok,M
3	VN1101MBL01	VN084629.D	01 Nov 2024 11:04	JC\MD	Not Ok
4	VN1101WBL01	VN084630.D	01 Nov 2024 11:29	JC\MD	Ok
5	VN1101WBS01	VN084631.D	01 Nov 2024 12:08	JC\MD	Ok,M
6	VN1101WBSD01	VN084632.D	01 Nov 2024 12:32	JC\MD	Ok,M
7	VIBLK	VN084633.D	01 Nov 2024 12:56	JC\MD	Ok
8	P4658-04	VN084634.D	01 Nov 2024 13:20	JC\MD	Ok
9	P4665-01	VN084635.D	01 Nov 2024 13:53	JC\MD	Ok
10	P4665-05	VN084636.D	01 Nov 2024 14:17	JC\MD	Ok
11	P4665-06	VN084637.D	01 Nov 2024 14:42	JC\MD	Ok
12	P4665-02	VN084638.D	01 Nov 2024 15:06	JC\MD	Ok
13	P4665-03	VN084639.D	01 Nov 2024 15:30	JC\MD	Ok
14	P4665-04	VN084640.D	01 Nov 2024 15:54	JC\MD	Ok
15	P4665-07	VN084641.D	01 Nov 2024 16:19	JC\MD	Ok,M
16	VIBLK	VN084642.D	01 Nov 2024 16:43	JC\MD	Ok
17	VSTDCCC050	VN084643.D	01 Nov 2024 17:07	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:57:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:58:33 PM		
SubDirectory	VN110124	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131230
Initial Calibration Stds	
CCC	VP131233,VP131234
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084627.D	01 Nov 2024 09:48		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084628.D	01 Nov 2024 10:22		JC\MD	Ok,M
3	VN1101MBL01	VN1101MBL01	VN084629.D	01 Nov 2024 11:04	Contaminated	JC\MD	Not Ok
4	VN1101WBL01	VN1101WBL01	VN084630.D	01 Nov 2024 11:29		JC\MD	Ok
5	VN1101WBS01	VN1101WBS01	VN084631.D	01 Nov 2024 12:08		JC\MD	Ok,M
6	VN1101WBSD01	VN1101WBSD01	VN084632.D	01 Nov 2024 12:32		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084633.D	01 Nov 2024 12:56		JC\MD	Ok
8	P4658-04	TB	VN084634.D	01 Nov 2024 13:20	pH<2 A TB	JC\MD	Ok
9	P4665-01	BP-VPB-190-TB-20241	VN084635.D	01 Nov 2024 13:53	pH<2 A TB;Hit of comp.#29	JC\MD	Ok
10	P4665-05	BP-VPB-190-GW-558-5	VN084636.D	01 Nov 2024 14:17	pH<2 A	JC\MD	Ok
11	P4665-06	BP-VPB-190-GW-583-5	VN084637.D	01 Nov 2024 14:42	pH<2 A	JC\MD	Ok
12	P4665-02	VPB190-HYD-2024103	VN084638.D	01 Nov 2024 15:06	pH<2 A	JC\MD	Ok
13	P4665-03	BP-VPB-190-EB-20241	VN084639.D	01 Nov 2024 15:30	pH<2 A EB	JC\MD	Ok
14	P4665-04	BP-VPB-190-GW-538-5	VN084640.D	01 Nov 2024 15:54	pH<2 A	JC\MD	Ok
15	P4665-07	BP-VPB-190-GW-598-6	VN084641.D	01 Nov 2024 16:19	pH<2 A	JC\MD	Ok,M
16	VIBLK	VIBLK	VN084642.D	01 Nov 2024 16:43		JC\MD	Ok
17	VSTDCCC050	VSTDCCC050EC	VN084643.D	01 Nov 2024 17:07		JC\MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4647-01	01A-01B-01C	1	1.00	1.00	2.00	2.00	100.0	caluk
P4658-01	B-131-1-SB02	2	1.16	8.56	9.72	5.57	51.5	
P4658-02	B-131-2-SB02	3	1.15	8.63	9.78	5.91	55.2	
P4658-03	B-131-3-SB02	4	1.14	8.37	9.51	5.83	56.0	
P4659-02	MH-2-EPH	5	1.14	8.59	9.73	8.7	88.0	
P4659-03	MH-2-VOC	6	1.16	8.70	9.86	8.83	88.2	
P4660-02	WC-TA2-01-C	7	1.13	8.76	9.89	8.92	88.9	
P4660-06	WC-WOOD-01-C	8	1.00	1.00	2.00	2.00	100.0	wood chips
P4660-10	WC-CONCRETE-01-C	9	1.14	8.55	9.69	9.03	92.3	
P4660-12	WC-CONCRETE-01-C	10	1.14	8.54	9.68	9.06	92.7	
P4661-01	102824-A	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4661-02	102824-B	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-01	102524-DRIP-A	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-02	102524-B	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-03	102524-C	15	1.00	1.00	2.00	2.00	100.0	wipe sample
P4663-01	TENNANT-PAD-2-3-STOCKPILE	16	1.14	8.75	9.89	9.1	91.0	
P4663-02	TENNANT-PAD-2-3-STOCKPILE	17	1.16	8.75	9.91	9.11	90.9	
P4663-03	RES-BUILDING-PAD-NO-11	18	1.16	8.74	9.9	9.19	91.9	
P4663-04	RES-BUILDING-PAD-NO-11	19	1.16	8.67	9.83	9.11	91.7	
P4663-05	RES-BUILDING-PAD-NO-3	20	1.15	8.61	9.76	8.94	90.5	
P4663-06	RES-BUILDING-PAD-NO-3	21	1.16	8.64	9.8	9.04	91.2	
P4663-07	RES-BUILDING-PAD-NO-2	22	1.16	8.46	9.62	8.41	85.7	
P4663-08	RES-BUILDING-PAD-NO-2	23	1.17	8.78	9.95	9.19	91.3	
P4667-01	BP-F-6	24	1.16	8.42	9.58	8.66	89.1	
P4667-02	BP-F-6-EPH	25	1.18	8.51	9.69	8.7	88.4	
P4667-03	BP-F-6-VOC	26	1.19	8.65	9.84	8.88	88.9	
P4667-05	BP-F-5	27	1.16	8.51	9.67	8.76	89.3	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4667-06	BP-F-5-EPH	28	1.16	8.52	9.68	8.76	89.2	
P4667-07	BP-F-5-VOC	29	1.17	8.64	9.81	8.79	88.2	
P4667-09	BP-F-10	30	1.17	8.78	9.95	8.98	89.0	
P4667-10	BP-F-10-EPH	31	1.17	8.54	9.71	8.84	89.8	
P4667-11	BP-F-10-VOC	32	1.16	8.81	9.97	9.06	89.7	
P4667-13	BP-F-7	33	1.16	8.71	9.87	8.91	89.0	
P4667-14	BP-F-7-EPH	34	1.17	8.44	9.61	8.57	87.7	
P4667-15	BP-F-7-VOC	35	1.18	8.42	9.6	8.72	89.5	
P4672-01	TAPLPR-SED06-103024-00-T2	36	1.19	8.65	9.84	7.71	75.4	
P4672-02	TAPLPR-SED07-103024-00-T2	37	1.19	8.47	9.66	8.48	86.1	
P4672-03	TAPLPR-SED03-103024-00-T2	38	1.19	8.68	9.87	8.31	82.0	
P4672-04	TAPLPR-SED04-103024-00-T2	39	1.19	8.77	9.96	8.77	86.4	
P4672-05	TAPLPR-SED05-103024-00-T2	40	1.18	8.62	9.8	8.41	83.9	
P4675-01	COMP-1	41	1.18	8.56	9.74	7.85	77.9	
P4675-02	COMP-2	42	1.19	8.48	9.67	8.46	85.7	
P4675-03	COMP-3	43	1.19	8.78	9.97	8.99	88.8	
P4675-04	COMP-4	44	1.18	8.71	9.89	8.4	82.9	
P4675-05	COMP-5	45	1.17	8.54	9.71	8.18	82.1	
P4675-06	COMP-6	46	1.17	8.70	9.87	8.24	81.3	
P4677-01	2410-6346	47	1.00	1.00	2.00	2.00	100.0	PAINT CHIPS
P4679-01	MH-1	48	1.18	8.80	9.98	8.98	88.6	
P4679-02	MH-1-EPH	49	1.19	8.58	9.77	8.65	86.9	
P4679-03	MH-1-VOC	50	1.19	8.62	9.81	8.72	87.4	
P4680-01	BP-F26	51	1.18	8.80	9.98	9.08	89.8	
P4680-02	BP-F26-EPH	52	1.18	8.44	9.62	8.71	89.2	
P4680-03	BP-F26-VOC	53	1.19	8.50	9.69	8.75	88.9	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4680-05	BP-F25	54	1.18	8.69	9.87	8.9	88.8	
P4680-06	BP-F25-EPH	55	1.19	8.79	9.98	8.91	87.8	
P4680-07	BP-F25-VOC	56	1.18	8.60	9.78	8.86	89.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

LB 183250

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4647-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	K61	10/31/2024	Chemtech -SO
P4658-01	B-131-1-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-02	B-131-2-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-03	B-131-3-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4659-02	MH-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4659-03	MH-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4660-02	WC-TA2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/30/2024	Chemtech -SO
P4660-06	WC-WOOD-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-10	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-12	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4661-01	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4661-02	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4662-01	102524-DRIP-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-02	102524-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-03	102524-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4663-01	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-03	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-05	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/24 15:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 11/01/24 17:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-07	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4667-01	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-02	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-03	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-05	BP-F-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-06	BP-F-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-07	BP-F-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-09	BP-F-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-10	BP-F-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-11	BP-F-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-13	BP-F-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-14	BP-F-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-15	BP-F-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4675-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/2024 ~~14:00~~ 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11/01/2024 ~~15:30~~ 17:20

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4675-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-06	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4677-01	2410-6346	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-01	MH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-02	MH-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-03	MH-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4680-01	BP-F26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-02	BP-F26-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-03	BP-F26-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-05	BP-F25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-06	BP-F25-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-07	BP-F25-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO

Date/Time 11/01/24 15:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

17:30

Date/Time 11/01/24 ~~15:30~~

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P4658
COC Number 2042039

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Avenue
CITY Audubon STATE: PA ZIP:
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's rep. of SB.
PROJECT NO.: LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: DAQC@bemsys.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 281 Sheffield St
CITY Mountainside STATE: NJ ZIP:
ATTENTION: Samantha PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

Lead

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-131-1-SB02	S		X	10/31	8:30	1	X									
2.	B-131-2-SB02	S		X	10/31	8:15	1	X									
3.	B-131-3-SB02	S		X	10/31	8:55	1	X									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10/31/2024	1. 1150 10-31-24
2.	11:50	2.
3.	1850 10-31-24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.4 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P4658 PORT06	**Order Date :**	10/31/2024 12:18:00 PM	**Project Mgr :**	Yazmeen
Client Name :	Portal Partners Tri-Venture	**Project Name :**	Amtrak Sawtooth Bridges 2	**Report Type :**	NJ Reduced
Client Contact :	Joseph Krupansky	**Receive DateTime :**	10/31/2024 6:50:00 PM	**EDD Type :**	EXCEL NJCLEANUP
Invoice Name :	Portal Partners Tri-Venture	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Joseph Krupansky			**Date Signoff :**	11/1/2024 10:53:53 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4658-04	TB	Water	10/31/2024	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinguished By : [signature]
Date / Time : 11-1-24 1150

Received By : [signature]
Date / Time : 11/1/24 11:50 Ng #4

Storage Area : **VOA Refridgerator Room**