

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 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

LAB CHRONICLE

OrderID:	P4471	OrderDate:	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	B-180-SB01	SOIL	VOC-TCLVOA-10	8260D	10/19/24		10/22/24	10/21/24
P4471-02	B-180-SB02	SOIL	VOC-TCLVOA-10	8260D	10/20/24		10/23/24	10/21/24
P4471-03	TB100824	Water	VOC-TCLVOA-10	8260-Low	10/08/24		10/21/24	10/21/24

Hit Summary Sheet
SW-846

SDG No.: P4471
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	B-180-SB01							
P4471-01	B-180-SB01	SOIL	Methylene Chloride	3.60	J	2.50	7.30	ug/Kg
P4471-01	B-180-SB01	SOIL	Methylcyclohexane	0.75	J	0.63	3.60	ug/Kg
P4471-01	B-180-SB01	SOIL	Toluene	1.80	J	0.49	3.60	ug/Kg
P4471-01	B-180-SB01	SOIL	m/p-Xylenes	2.00	J	0.98	7.30	ug/Kg
P4471-01	B-180-SB01	SOIL	o-Xylene	0.85	J	0.51	3.60	ug/Kg
			Total Voc :			9.00		
P4471-01	B-180-SB01	SOIL	1,2,4-Trimethylbenzene	* 2.30	J	0.99	3.60	ug/Kg
			Total Tics :			2.30		
			Total Concentration:			11.3		
Client ID:	B-180-SB02							
P4471-02	B-180-SB02	SOIL	Acetone	360		16.7	66.9	ug/Kg
P4471-02	B-180-SB02	SOIL	Carbon Disulfide	25.8		3.40	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	2-Butanone	100		15.2	66.9	ug/Kg
P4471-02	B-180-SB02	SOIL	Toluene	5.60	J	1.80	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	m/p-Xylenes	4.20	J	3.60	26.7	ug/Kg
P4471-02	B-180-SB02	SOIL	Isopropylbenzene	120		1.80	13.4	ug/Kg
			Total Voc :			616		
P4471-02	B-180-SB02	SOIL	unknown13.669	* 110	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Camphene	* 86.7	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Bicyclo[2.2.1]heptane, 7,7-dim	* 64.0	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Cyclohexene, 4-methyl-1-(1-m	* 120	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Tridecane	* 55.0	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Octane, 2,6-dimethyl-	* 41.1	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Naphthalene, decahydro-2-metl	* 83.7	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Dodecane, 6-methyl-	* 64.9	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1-Iodo-2-methylnonane	* 88.7	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Diethyl Ether	* 3.00	J	1.70	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	1,2,4-Trimethylbenzene	* 6.50	J	3.70	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	p-Isopropyltoluene	* 290	J	1.60	13.4	ug/Kg
			Total Tics :			1010		
			Total Concentration:			1630		



QC SUMMARY

Surrogate Summary

SDG No.: **P4471**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4471-01	B-180-SB01	1,2-Dichloroethane-d4	50	55.9	112	70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100	70 (54)	130 (147)
		Toluene-d8	50	51.1	102	70 (58)	130 (134)
		4-Bromofluorobenzene	50	43.6	87	70 (29)	130 (146)
P4471-02	B-180-SB02	1,2-Dichloroethane-d4	50	52.9	106	70 (50)	130 (163)
		Dibromofluoromethane	50	48.8	98	70 (54)	130 (147)
		Toluene-d8	50	49.6	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	34.7	69 *	70 (29)	130 (146)
VY1022SBL01	VY1022SBL01	1,2-Dichloroethane-d4	50	55.9	112	70 (50)	130 (163)
		Dibromofluoromethane	50	48.9	98	70 (54)	130 (147)
		Toluene-d8	50	50.6	101	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.3	81	70 (29)	130 (146)
VY1022SBS01	VY1022SBS01	1,2-Dichloroethane-d4	50	53.2	106	70 (50)	130 (163)
		Dibromofluoromethane	50	53.1	106	70 (54)	130 (147)
		Toluene-d8	50	51.4	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.9	102	70 (29)	130 (146)
VY1022SBSD01	VY1022SBSD01	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	56.0	112	70 (54)	130 (147)
		Toluene-d8	50	53.3	107	70 (58)	130 (134)
		4-Bromofluorobenzene	50	53.3	107	70 (29)	130 (146)
VY1023SBL01	VY1023SBL01	1,2-Dichloroethane-d4	50	53.8	108	70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100	70 (54)	130 (147)
		Toluene-d8	50	50.3	101	70 (58)	130 (134)
		4-Bromofluorobenzene	50	42.0	84	70 (29)	130 (146)
VY1023SBS01	VY1023SBS01	1,2-Dichloroethane-d4	50	59.4	119	70 (50)	130 (163)
		Dibromofluoromethane	50	57.1	114	70 (54)	130 (147)
		Toluene-d8	50	54.6	109	70 (58)	130 (134)
		4-Bromofluorobenzene	50	54.1	108	70 (29)	130 (146)

Surrogate Summary

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4471-03	TB100824	1,2-Dichloroethane-d4	50	49.5	99	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	50.1	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.9	90	70 (77)	130 (121)
VN1021WBL01	VN1021WBL01	1,2-Dichloroethane-d4	50	48.6	97	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.7	89	70 (77)	130 (121)
VN1021WBS01	VN1021WBS01	1,2-Dichloroethane-d4	50	50.5	101	70 (74)	130 (125)
		Dibromofluoromethane	50	54.3	109	70 (75)	130 (124)
		Toluene-d8	50	54.0	108	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)
VN1021WBSD0	VN1021WBSD01	1,2-Dichloroethane-d4	50	51.1	102	70 (74)	130 (125)
		Dibromofluoromethane	50	52.8	106	70 (75)	130 (124)
		Toluene-d8	50	51.8	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084433.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1021WBS01	Dichlorodifluoromethane	20	16.1	ug/L	81			40 (69)	160 (116)	
	Chloromethane	20	16.1	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	16.7	ug/L	84			70 (65)	130 (117)	
	Bromomethane	20	16.5	ug/L	83			40 (58)	160 (125)	
	Chloroethane	20	15.0	ug/L	75			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.1	ug/L	91			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.1	ug/L	91			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.6	ug/L	88			70 (74)	130 (110)	
	Acetone	100	87.5	ug/L	88			40 (60)	160 (125)	
	Carbon disulfide	20	14.2	ug/L	71			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	18.1	ug/L	91			70 (78)	130 (114)	
	Methyl Acetate	20	22.5	ug/L	113			70 (67)	130 (125)	
	Methylene Chloride	20	18.6	ug/L	93			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.4	ug/L	87			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.2	ug/L	96			70 (78)	130 (112)	
	Cyclohexane	20	16.0	ug/L	80			70 (75)	130 (110)	
	2-Butanone	100	88.7	ug/L	89			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.9	ug/L	95			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.2	ug/L	91			70 (77)	130 (110)	
	Bromochloromethane	20	19.6	ug/L	98			70 (70)	130 (124)	
	Chloroform	20	19.0	ug/L	95			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.7	ug/L	94			70 (80)	130 (108)	
	Methylcyclohexane	20	16.2	ug/L	81			70 (72)	130 (115)	
	Benzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.9	ug/L	95			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.6	ug/L	98			70 (83)	130 (111)	
	Bromodichloromethane	20	19.5	ug/L	98			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	96.8	ug/L	97			40 (74)	160 (118)	
	Toluene	20	19.6	ug/L	98			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	18.5	ug/L	93			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			70 (83)	130 (112)	
	2-Hexanone	100	96.1	ug/L	96			40 (73)	160 (117)	
	Dibromochloromethane	20	20.1	ug/L	101			70 (82)	130 (110)	
	1,2-Dibromoethane	20	19.0	ug/L	95			70 (81)	130 (110)	
	Tetrachloroethene	20	18.9	ug/L	95			70 (67)	130 (123)	
	Chlorobenzene	20	19.2	ug/L	96			70 (82)	130 (109)	
	Ethyl Benzene	20	18.5	ug/L	93			70 (83)	130 (109)	
	m/p-Xylenes	40	38.5	ug/L	96			70 (82)	130 (110)	
	o-Xylene	20	20.0	ug/L	100			70 (83)	130 (109)	
	Styrene	20	19.5	ug/L	98			70 (80)	130 (111)	
	Bromoform	20	19.5	ug/L	98			70 (79)	130 (109)	
	Isopropylbenzene	20	18.2	ug/L	91			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.3	ug/L	92			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084433.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1021WBS01	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.6	ug/L	88			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.2	ug/L	86			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084434.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1021WBSD01	Dichlorodifluoromethane	20	16.8	ug/L	84	4		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.3	ug/L	81	0		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	17.1	ug/L	86	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	17.0	ug/L	85	2		40 (58)	160 (125)	20 (20)
	Chloroethane	20	16.0	ug/L	80	6		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.0	ug/L	95	4		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	6		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	17.7	ug/L	89	1		70 (74)	130 (110)	20 (20)
	Acetone	100	91.6	ug/L	92	4		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	14.5	ug/L	73	3		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.8	ug/L	99	8		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	24.0	ug/L	120	6		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.2	ug/L	101	8		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	6		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.6	ug/L	98	2		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	16.2	ug/L	81	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	96.8	ug/L	97	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.4	ug/L	97	2		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.2	ug/L	96	5		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	21.7	ug/L	109	11		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.1	ug/L	101	6		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.8	ug/L	99	5		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	17.0	ug/L	85	5		70 (72)	130 (115)	20 (20)
	Benzene	20	19.6	ug/L	98	3		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.6	ug/L	103	8		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.5	ug/L	98	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.9	ug/L	104	6		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.9	ug/L	104	6		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	100	ug/L	100	3		40 (74)	160 (118)	20 (20)
	Toluene	20	20.3	ug/L	102	4		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.7	ug/L	99	6		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.0	ug/L	100	5		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.5	ug/L	113	10		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	100	ug/L	100	4		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.8	ug/L	109	8		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.7	ug/L	104	9		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.3	ug/L	97	2		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.5	ug/L	98	2		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	18.4	ug/L	92	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	38.8	ug/L	97	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	18.8	ug/L	94	6		70 (83)	130 (109)	20 (20)
	Styrene	20	19.8	ug/L	99	1		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.7	ug/L	104	6		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	18.4	ug/L	92	1		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103	6		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.3	ug/L	97	4		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.4	ug/L	97	3		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.8	ug/L	94	2		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084434.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1021WBSD01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93	8		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94	7		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.2	ug/L	91	6		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019971.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1022SBS01	Dichlorodifluoromethane	20	16.5	ug/Kg	83			40 (64)	160 (136)	
	Chloromethane	20	18.9	ug/Kg	95			40 (70)	160 (130)	
	Vinyl chloride	20	19.4	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.8	ug/Kg	104			40 (58)	160 (141)	
	Chloroethane	20	20.0	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.9	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.2	ug/Kg	91			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	13.2	ug/Kg	66			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	20.9	ug/Kg	104			70 (77)	130 (129)	
	Methyl Acetate	20	21.1	ug/Kg	106			70 (69)	130 (149)	
	Methylene Chloride	20	21.5	ug/Kg	108			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.0	ug/Kg	90			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			70 (82)	130 (123)	
	Cyclohexane	20	18.0	ug/Kg	90			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.0	ug/Kg	100			70 (82)	130 (123)	
	Bromochloromethane	20	21.6	ug/Kg	108			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103			70 (80)	130 (126)	
	Methylcyclohexane	20	17.6	ug/Kg	88			70 (77)	130 (123)	
	Benzene	20	20.1	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.8	ug/Kg	104			70 (81)	130 (126)	
	Trichloroethene	20	19.0	ug/Kg	95			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.7	ug/Kg	109			70 (83)	130 (122)	
	Bromodichloromethane	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.8	ug/Kg	99			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.5	ug/Kg	113			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	20.9	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.4	ug/Kg	102			70 (80)	130 (125)	
	Tetrachloroethene	20	18.5	ug/Kg	93			70 (83)	130 (125)	
	Chlorobenzene	20	20.2	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	20.0	ug/Kg	100			70 (82)	130 (124)	
	m/p-Xylenes	40	39.3	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	20.2	ug/Kg	101			70 (82)	130 (124)	
	Bromoform	20	20.4	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	22.1	ug/Kg	111			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019971.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1022SBS01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/Kg	104			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.1	ug/Kg	91			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019972.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1022SBSD01	Dichlorodifluoromethane	20	17.4	ug/Kg	87	5		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.4	ug/Kg	92	3		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.8	ug/Kg	94	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.5	ug/Kg	103	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	20.1	ug/Kg	101	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.8	ug/Kg	99	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	17.7	ug/Kg	89	2		70 (79)	130 (121)	30 (20)
	Acetone	100	120	ug/Kg	120	9		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	13.1	ug/Kg	66	0		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.4	ug/Kg	107	3		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	22.4	ug/Kg	112	6		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.0	ug/Kg	105	3		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	18.6	ug/Kg	93	3		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	22.1	ug/Kg	111	3		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	17.3	ug/Kg	86	5		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	9		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	18.7	ug/Kg	94	5		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104	4		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	22.6	ug/Kg	113	5		70 (80)	130 (127)	30 (20)
	Chloroform	20	22.5	ug/Kg	113	3		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.4	ug/Kg	87	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.2	ug/Kg	101	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.5	ug/Kg	108	4		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.4	ug/Kg	97	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.7	ug/Kg	109	0		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.8	ug/Kg	109	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	9		40 (70)	160 (135)	30 (20)
	Toluene	20	20.6	ug/Kg	103	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101	0		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	4		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.1	ug/Kg	111	2		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	21.2	ug/Kg	106	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.6	ug/Kg	103	1		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	18.3	ug/Kg	92	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.2	ug/Kg	101	0		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.0	ug/Kg	100	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.9	ug/Kg	97	1		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.7	ug/Kg	99	2		70 (83)	130 (123)	30 (20)
	Styrene	20	20.4	ug/Kg	102	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.2	ug/Kg	101	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.2	ug/Kg	101	2		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	23.3	ug/Kg	117	5		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.3	ug/Kg	102	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	4		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.6	ug/Kg	103	1		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471
Client: Portal Partners Tri-Venture
Analytical Method: SW8260D **Datafile :** VY019972.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1022SBSD01	1,2-Dibromo-3-Chloropropane	20	21.8	ug/Kg	109	5		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97	6		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	2		70 (70)	130 (137)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019987.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1023SBS01	Dichlorodifluoromethane	20	16.8	ug/Kg	84			40 (64)	160 (136)	
	Chloromethane	20	18.7	ug/Kg	94			40 (70)	160 (130)	
	Vinyl chloride	20	19.7	ug/Kg	99			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	21.6	ug/Kg	108			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.1	ug/Kg	106			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/Kg	109			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.5	ug/Kg	98			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	14.0	ug/Kg	70			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	22.6	ug/Kg	113			70 (77)	130 (129)	
	Methyl Acetate	20	22.5	ug/Kg	113			70 (69)	130 (149)	
	Methylene Chloride	20	20.9	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.8	ug/Kg	99			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.5	ug/Kg	113			70 (82)	130 (123)	
	Cyclohexane	20	19.1	ug/Kg	96			70 (76)	130 (122)	
	2-Butanone	100	120	ug/Kg	120			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	Bromochloromethane	20	22.9	ug/Kg	115			70 (80)	130 (127)	
	Chloroform	20	23.8	ug/Kg	119			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	22.6	ug/Kg	113			70 (80)	130 (126)	
	Methylcyclohexane	20	18.0	ug/Kg	90			70 (77)	130 (123)	
	Benzene	20	20.1	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	22.0	ug/Kg	110			70 (81)	130 (126)	
	Trichloroethene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.4	ug/Kg	107			70 (83)	130 (122)	
	Bromodichloromethane	20	21.8	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.5	ug/Kg	113			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	21.0	ug/Kg	105			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.6	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	18.4	ug/Kg	92			70 (83)	130 (125)	
	Chlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	40.5	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	20.6	ug/Kg	103			70 (83)	130 (123)	
	Styrene	20	20.8	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	20.4	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	21.6	ug/Kg	108			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	23.1	ug/Kg	116			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.3	ug/Kg	106			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.1	ug/Kg	106			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019987.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1023SBS01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/Kg	103			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.1	ug/Kg	96			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1021WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4471

SAS No.: P4471 SDG NO.: P4471

Lab File ID: VN084430.D

Lab Sample ID: VN1021WBL01

Date Analyzed: 10/21/2024

Time Analyzed: 12:36

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
VN1021WBS01	VN1021WBS01	VN084433.D	10/21/2024
VN1021WBSD01	VN1021WBSD01	VN084434.D	10/21/2024
TB100824	P4471-03	VN084444.D	10/21/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1022SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4471

SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019970.D

Lab Sample ID: VY1022SBL01

Date Analyzed: 10/22/2024

Time Analyzed: 10:36

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1022SBS01	VY1022SBS01	VY019971.D	10/22/2024
VY1022SBSD01	VY1022SBSD01	VY019972.D	10/22/2024
B-180-SB01	P4471-01	VY019979.D	10/22/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1023SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4471

SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019986.D

Lab Sample ID: VY1023SBL01

Date Analyzed: 10/23/2024

Time Analyzed: 11:35

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1023SBS01	VY1023SBS01	VY019987.D	10/23/2024
B-180-SB02	P4471-02	VY019993.D	10/23/2024

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab File ID: VN084211.D BFB Injection Date: 09/30/2024
Instrument ID: MSVOA_N BFB Injection Time: 09:24
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	19.9
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	69.7 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084213.D	09/30/2024	12:25
VSTDICCC050	VSTDICCC050	VN084214.D	09/30/2024	12:49
VSTDICC020	VSTDICC020	VN084215.D	09/30/2024	13:13
VSTDICC010	VSTDICC010	VN084216.D	09/30/2024	13:37
VSTDICC005	VSTDICC005	VN084217.D	09/30/2024	14:00
VSTDICC001	VSTDICC001	VN084218.D	09/30/2024	14:48



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab File ID: VN084427.D BFB Injection Date: 10/21/2024
Instrument ID: MSVOA_N BFB Injection Time: 11:14
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	17
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.1 (7) 1
176	95.0 - 101.0% of mass 174	70 (96.3) 1
177	5.0 - 9.0% of mass 176	4.6 (6.6) 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	VN084428.D	10/21/2024	11:38
VN1021WBL01	VN1021WBL01	VN084430.D	10/21/2024	12:36
VN1021WBS01	VN1021WBS01	VN084433.D	10/21/2024	13:48
VN1021WBSD01	VN1021WBSD01	VN084434.D	10/21/2024	14:22
TB100824	P4471-03	VN084444.D	10/21/2024	18:28



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab File ID: VY019826.D BFB Injection Date: 10/09/2024
Instrument ID: MSVOA_Y BFB Injection Time: 09:33
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	73.9 (96.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY019827.D	10/09/2024	10:18
VSTDIC010	VSTDIC010	VY019828.D	10/09/2024	10:41
VSTDIC020	VSTDIC020	VY019829.D	10/09/2024	11:04
VSTDIC050	VSTDIC050	VY019830.D	10/09/2024	11:26
VSTDIC100	VSTDIC100	VY019831.D	10/09/2024	11:49
VSTDIC150	VSTDIC150	VY019832.D	10/09/2024	12:11



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab File ID: VY019968.D BFB Injection Date: 10/22/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:49
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 60.0% of mass 95	58.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	6.1 (8.2) 1
176	95.0 - 101.0% of mass 174	73 (98.3) 1
177	5.0 - 9.0% of mass 176	4.6 (6.3) 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	VY019969.D	10/22/2024	10:01
VY1022SBL01	VY1022SBL01	VY019970.D	10/22/2024	10:36
VY1022SBS01	VY1022SBS01	VY019971.D	10/22/2024	11:16
VY1022SBSD01	VY1022SBSD01	VY019972.D	10/22/2024	11:38
B-180-SB01	P4471-01	VY019979.D	10/22/2024	14:23



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab File ID: VY019984.D BFB Injection Date: 10/23/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:51
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.9
75	30.0 - 60.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1 (1.5) 1
174	50.0 - 100.0% of mass 95	70
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	68.4 (97.6) 1
177	5.0 - 9.0% of mass 176	4.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY019985.D	10/23/2024	10:58
VY1023SBL01	VY1023SBL01	VY019986.D	10/23/2024	11:35
VY1023SBS01	VY1023SBS01	VY019987.D	10/23/2024	12:20
B-180-SB02	P4471-02	VY019993.D	10/23/2024	14:45

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
 Lab File ID: VN084428.D Date Analyzed: 10/21/2024
 Instrument ID: MSVOA_N Time Analyzed: 11:38
 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	157355	8.22	262800	9.10	244635	11.87
UPPER LIMIT	314710	8.724	525600	9.6	489270	12.365
LOWER LIMIT	78677.5	7.724	131400	8.6	122318	11.365
EPA SAMPLE NO.						
TB100824	164715	8.22	283567	9.10	244917	11.87
VN1021WBL01	167468	8.22	295479	9.10	254088	11.87
VN1021WBS01	189913	8.22	322919	9.10	284161	11.87
VN1021WBSD01	163086	8.22	278516	9.10	255670	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
 Lab File ID: VN084428.D Date Analyzed: 10/21/2024
 Instrument ID: MSVOA_N Time Analyzed: 11:38
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	127638	13.788				
UPPER LIMIT	255276	14.288				
LOWER LIMIT	63819	13.288				
EPA SAMPLE NO.						
TB100824	92567	13.79				
VN1021WBL01	99954	13.79				
VN1021WBS01	138325	13.79				
VN1021WBSD01	124118	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab File ID: VY019969.D Date Analyzed: 10/22/2024
Instrument ID: MSVOA_Y Time Analyzed: 10:01
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	226762	7.71	399552	8.62	348429	11.41
UPPER LIMIT	453524	8.213	799104	9.116	696858	11.914
LOWER LIMIT	113381	7.213	199776	8.116	174215	10.914
EPA SAMPLE NO.						
B-180-SB01	272409	7.71	558411	8.62	507425	11.41
VY1022SBL01	219150	7.71	450425	8.62	395647	11.41
VY1022SBS01	215657	7.71	379714	8.62	332435	11.41
VY1022SBSD01	222995	7.71	399190	8.61	345246	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
 Lab File ID: VY019969.D Date Analyzed: 10/22/2024
 Instrument ID: MSVOA_Y Time Analyzed: 10:01
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	173474	13.347				
UPPER LIMIT	346948	13.847				
LOWER LIMIT	86737	12.847				
EPA SAMPLE NO.						
B-180-SB01	178248	13.35				
VY1022SBL01	132931	13.35				
VY1022SBS01	160914	13.35				
VY1022SBSD01	163027	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
 Lab File ID: VY019985.D Date Analyzed: 10/23/2024
 Instrument ID: MSVOA_Y Time Analyzed: 10:58
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	247993	7.71	444115	8.62	376691	11.41
UPPER LIMIT	495986	8.213	888230	9.116	753382	11.914
LOWER LIMIT	123997	7.213	222058	8.116	188346	10.914
EPA SAMPLE NO.						
B-180-SB02	211103	7.71	422929	8.62	336247	11.41
VY1023SBL01	239192	7.71	486232	8.62	427644	11.41
VY1023SBS01	228334	7.71	420481	8.62	359220	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
 Lab File ID: VY019985.D Date Analyzed: 10/23/2024
 Instrument ID: MSVOA_Y Time Analyzed: 10:58
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	183428	13.346				
UPPER LIMIT	366856	13.846				
LOWER LIMIT	91714	12.846				
EPA SAMPLE NO.						
B-180-SB02	95105	13.35				
VY1023SBL01	145538	13.35				
VY1023SBS01	165743	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	8.32 Units: g	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
VY019979.D	1		10/22/24 14:23	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.60	ug/Kg
74-87-3	Chloromethane	0.84	U	0.84	3.60	ug/Kg
75-01-4	Vinyl Chloride	0.56	U	0.56	3.60	ug/Kg
74-83-9	Bromomethane	0.75	U	0.75	3.60	ug/Kg
75-00-3	Chloroethane	0.73	U	0.73	3.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.66	U	0.66	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.78	U	0.78	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	0.57	3.60	ug/Kg
67-64-1	Acetone	4.50	U	4.50	18.1	ug/Kg
75-15-0	Carbon Disulfide	0.93	U	0.93	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.49	U	0.49	3.60	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	3.60	ug/Kg
75-09-2	Methylene Chloride	3.60	J	2.50	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.61	U	0.61	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.46	U	0.46	3.60	ug/Kg
110-82-7	Cyclohexane	0.50	U	0.50	3.60	ug/Kg
78-93-3	2-Butanone	4.10	U	4.10	18.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.63	U	0.63	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.44	U	0.44	3.60	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.60	ug/Kg
67-66-3	Chloroform	0.49	U	0.49	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.57	U	0.57	3.60	ug/Kg
108-87-2	Methylcyclohexane	0.75	J	0.63	3.60	ug/Kg
71-43-2	Benzene	0.52	U	0.52	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.44	U	0.44	3.60	ug/Kg
79-01-6	Trichloroethene	0.54	U	0.54	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.48	U	0.48	3.60	ug/Kg
75-27-4	Bromodichloromethane	0.41	U	0.41	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	18.1	ug/Kg
108-88-3	Toluene	1.80	J	0.49	3.60	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/21/24
Client Sample ID:	B-180-SB01			SDG No.:	P4471
Lab Sample ID:	P4471-01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	82.8
Sample Wt/Vol:	8.32	Units:	g	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
VY019979.D	1		10/22/24 14:23	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.44	U	0.44	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.41	U	0.41	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.61	U	0.61	3.60	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	18.1	ug/Kg
124-48-1	Dibromochloromethane	0.47	U	0.47	3.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.57	U	0.57	3.60	ug/Kg
127-18-4	Tetrachloroethene	0.65	U	0.65	3.60	ug/Kg
108-90-7	Chlorobenzene	0.54	U	0.54	3.60	ug/Kg
100-41-4	Ethyl Benzene	0.45	U	0.45	3.60	ug/Kg
179601-23-1	m/p-Xylenes	2.00	J	0.98	7.30	ug/Kg
95-47-6	o-Xylene	0.85	J	0.51	3.60	ug/Kg
100-42-5	Styrene	0.44	U	0.44	3.60	ug/Kg
75-25-2	Bromoform	0.59	U	0.59	3.60	ug/Kg
98-82-8	Isopropylbenzene	0.49	U	0.49	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	0.80	3.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.54	U	0.54	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.58	U	0.58	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.43	U	0.43	3.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.10	U	1.10	3.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.57	U	0.57	3.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.57	U	0.57	3.60	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	55.9	70 (50) - 130 (163)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9	70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.1	70 (58) - 130 (134)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6	70 (29) - 130 (146)	87%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	272000	7.707
540-36-3	1,4-Difluorobenzene	558000	8.616
3114-55-4	Chlorobenzene-d5	507000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	178000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	8.32 Units: g	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
VY019979.D	1		10/22/24 14:23	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-63-6	1,2,4-Trimethylbenzene	2.30	J		13.0	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019979.D
 Acq On : 22 Oct 2024 14:23
 Operator : SY/MD
 Sample : P4471-01
 Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-180-SB01

Quant Time: Oct 23 01:30:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

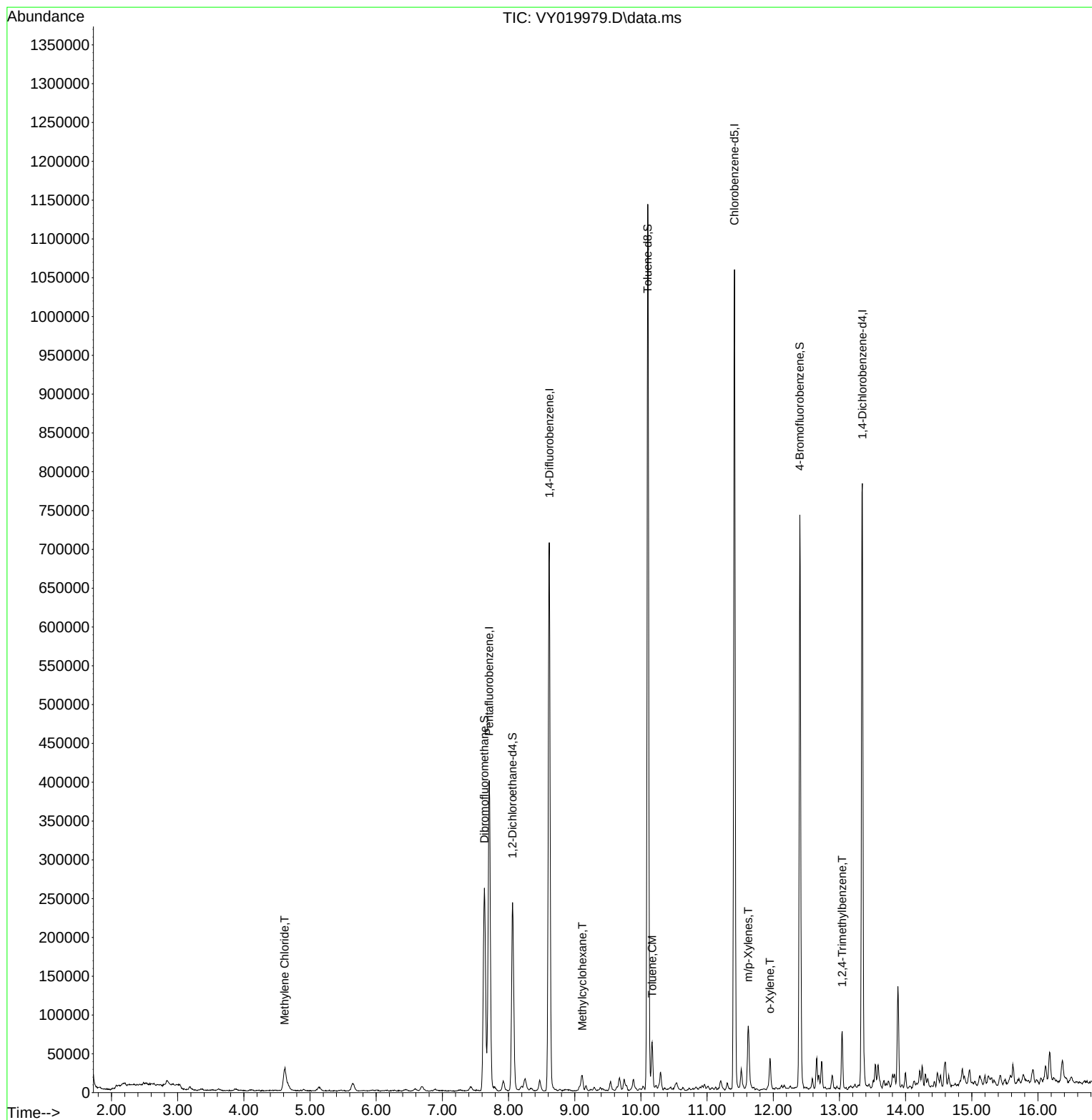
Internal Standards						
1) Pentafluorobenzene	7.707	168	272409	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	558411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	507425	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	178248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	187390	55.868	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.740%	
35) Dibromofluoromethane	7.634	113	183888	49.903	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.800%	
50) Toluene-d8	10.103	98	695045	51.077	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.160%	
62) 4-Bromofluorobenzene	12.402	95	214219	43.568	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 87.140%	
Target Compounds						
						Qvalue
20) Methylene Chloride	4.616	84	18410	4.980	ug/l	# 81
39) Methylcyclohexane	9.116	83	6955	1.040	ug/l	90
52) Toluene	10.170	92	24355	2.429	ug/l	97
68) m/p-Xylenes	11.621	106	20990	2.696	ug/l	92
69) o-Xylene	11.950	106	8735	1.168	ug/l	78
84) 1,2,4-Trimethylbenzene	13.042	105	38093	3.173	ug/l	96

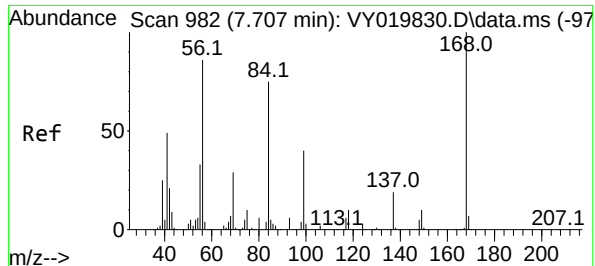
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Time: Oct 23 01:30:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

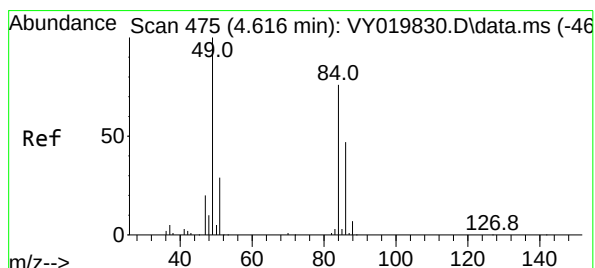
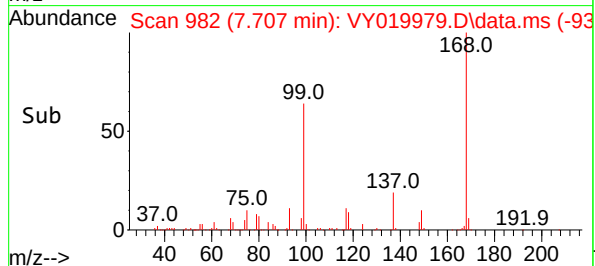
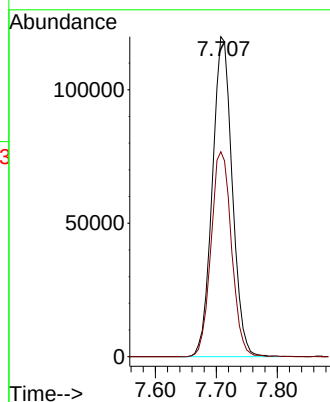
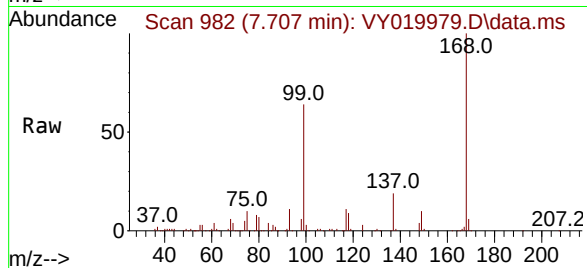




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

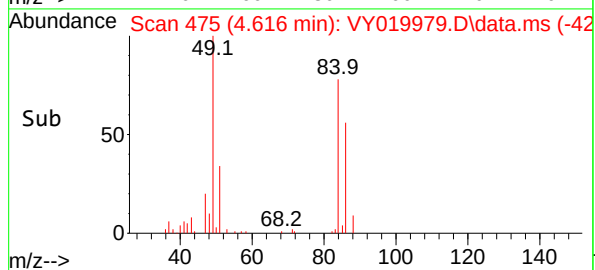
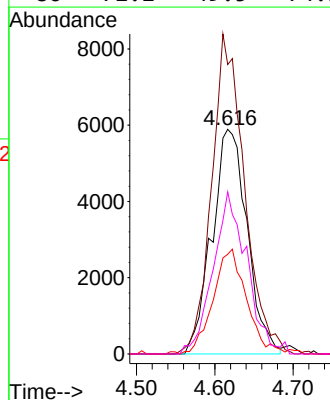
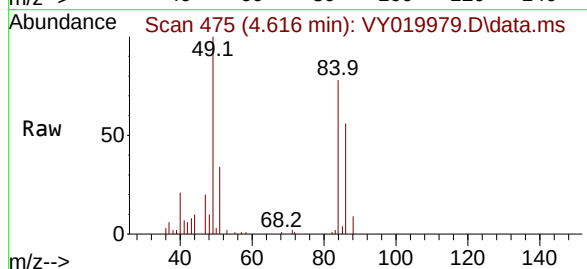
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

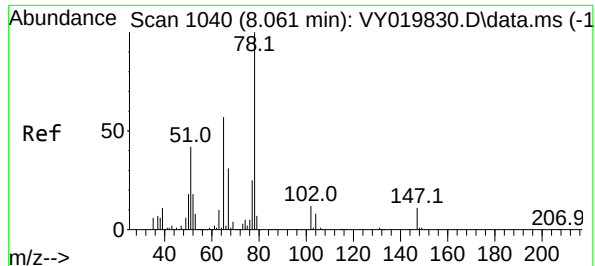
Tgt Ion:168 Resp: 272409
Ion Ratio Lower Upper
168 100
99 64.1 39.1 58.7#



#20
Methylene Chloride
Concen: 4.980 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion: 84 Resp: 18410
Ion Ratio Lower Upper
84 100
49 127.7 84.4 126.6#
51 44.4 26.0 39.0#
86 72.2 49.5 74.3





#33

1,2-Dichloroethane-d4

Concen: 55.868 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY019979.D

Acq: 22 Oct 2024 14:23

Instrument :

MSVOA_Y

ClientSampleId :

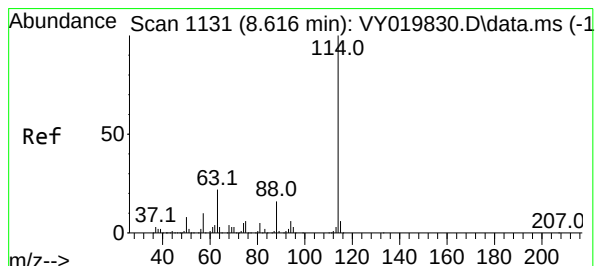
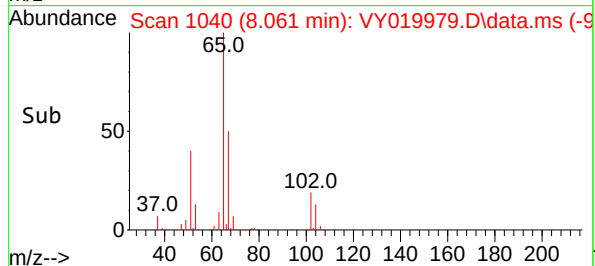
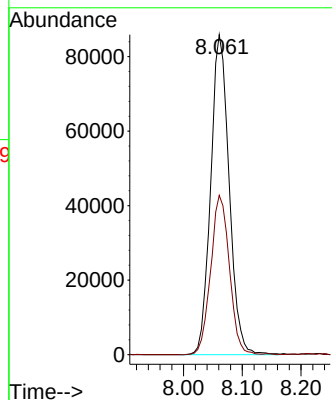
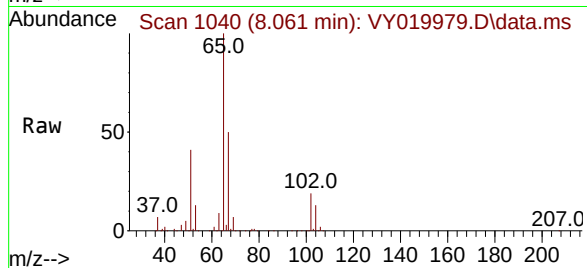
B-180-SB01

Tgt Ion: 65 Resp: 187390

Ion Ratio Lower Upper

65 100

67 50.5 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019979.D

Acq: 22 Oct 2024 14:23

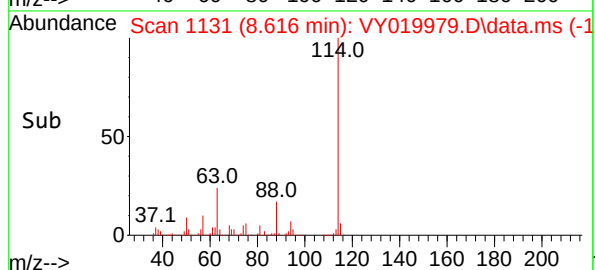
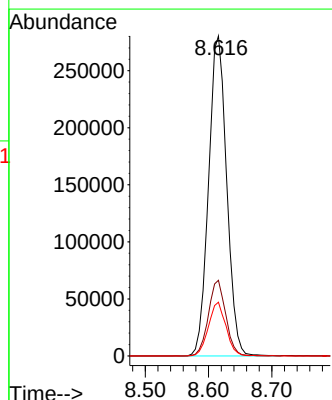
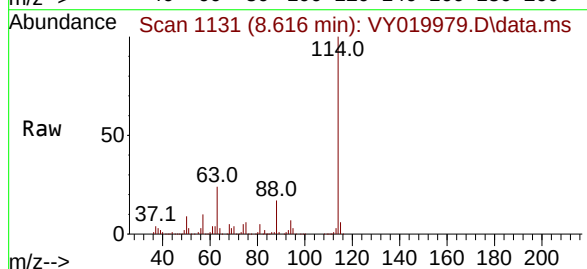
Tgt Ion: 114 Resp: 558411

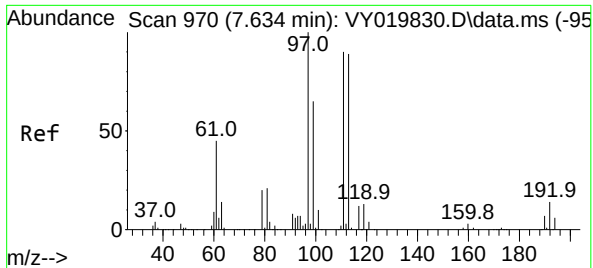
Ion Ratio Lower Upper

114 100

63 23.7 0.0 35.0

88 16.8 0.0 27.2





#35

Dibromofluoromethane

Concen: 49.903 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY019979.D

Acq: 22 Oct 2024 14:23

Instrument :

MSVOA_Y

ClientSampleId :

B-180-SB01

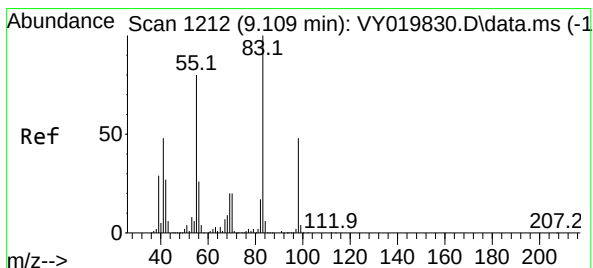
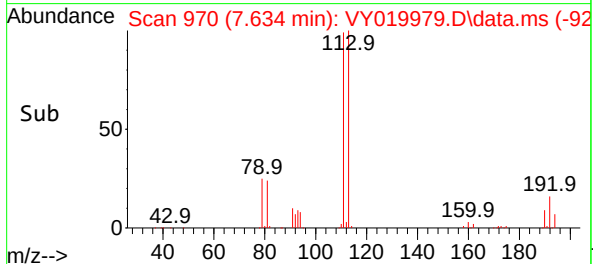
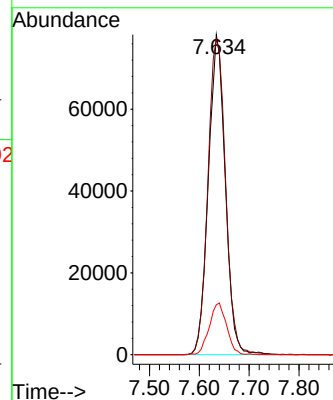
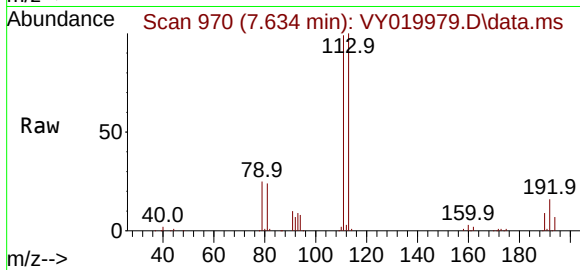
Tgt Ion:113 Resp: 183888

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

192 16.7 15.9 23.9



#39

Methylcyclohexane

Concen: 1.040 ug/l

RT: 9.116 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VY019979.D

Acq: 22 Oct 2024 14:23

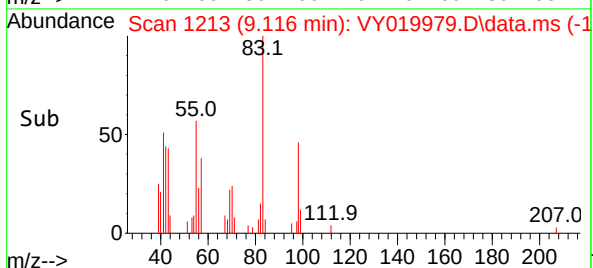
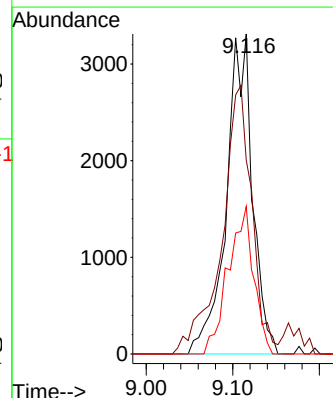
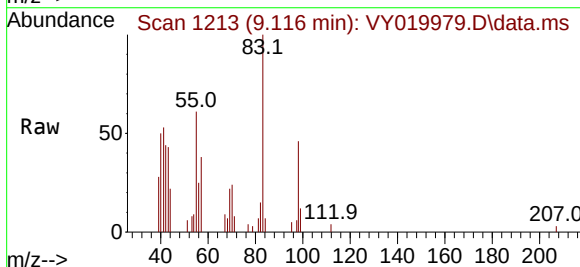
Tgt Ion: 83 Resp: 6955

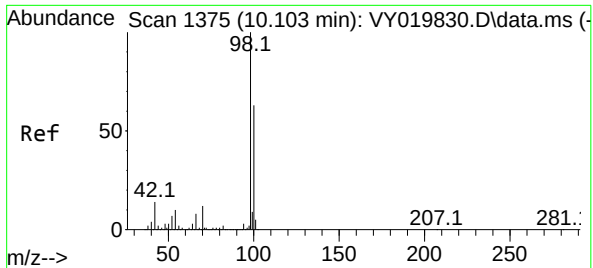
Ion Ratio Lower Upper

83 100

55 55.1 51.5 77.3

98 46.1 40.5 60.7

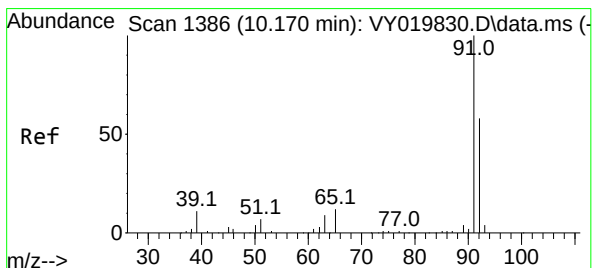
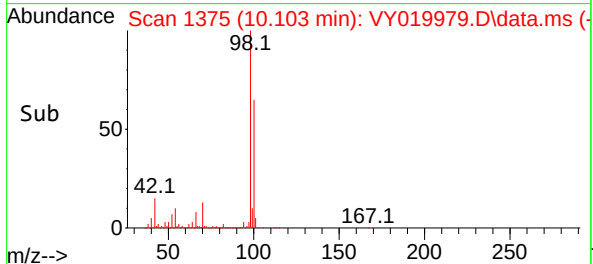
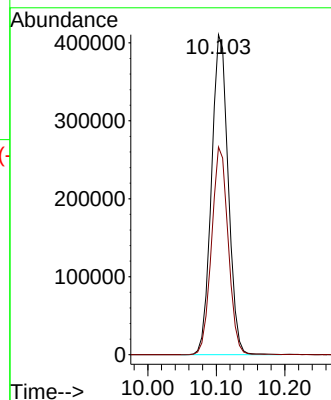
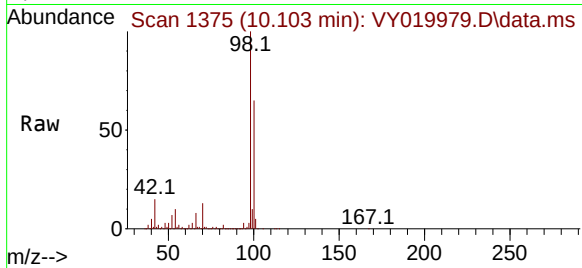




#50
Toluene-d8
Concen: 51.077 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

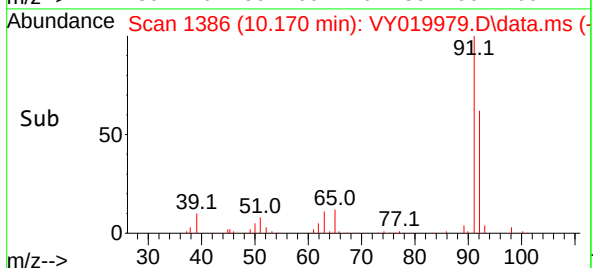
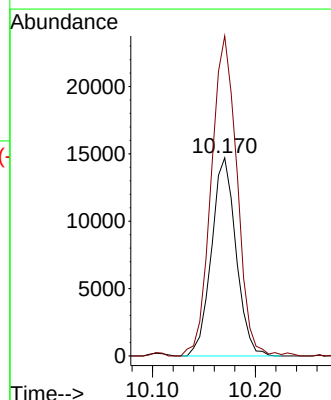
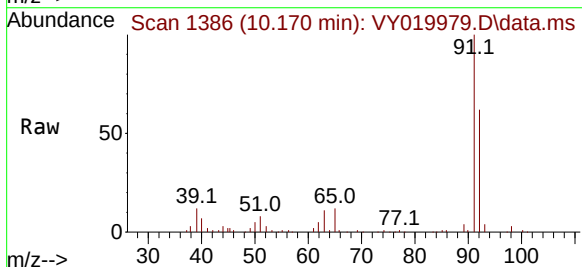
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

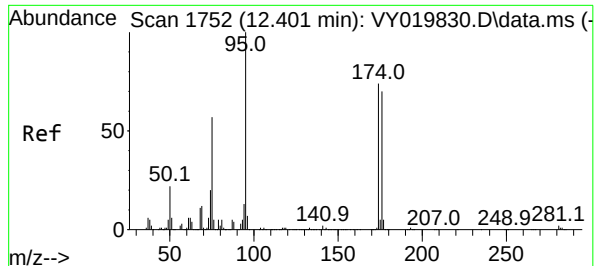
Tgt Ion: 98 Resp: 695045
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#52
Toluene
Concen: 2.429 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion: 92 Resp: 24355
Ion Ratio Lower Upper
92 100
91 170.1 139.0 208.6





#62

4-Bromofluorobenzene

Concen: 43.568 ug/l

RT: 12.402 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019979.D

Acq: 22 Oct 2024 14:23

Instrument :

MSVOA_Y

ClientSampleId :

B-180-SB01

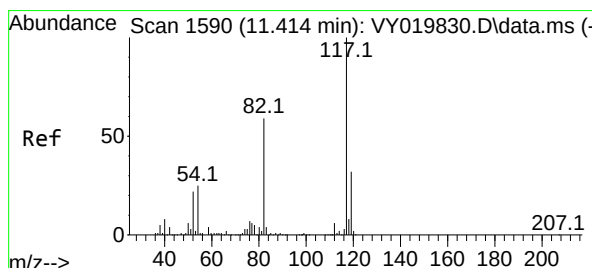
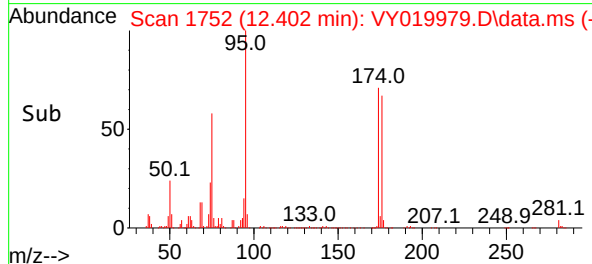
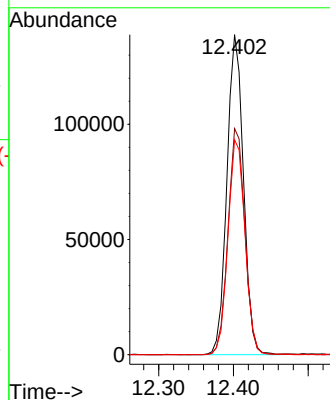
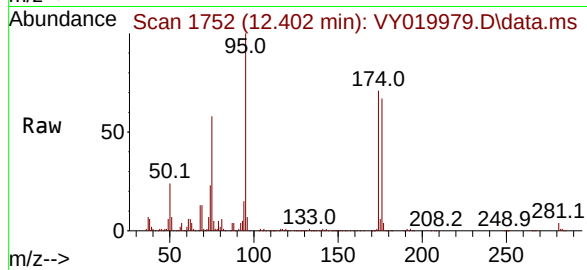
Tgt Ion: 95 Resp: 214219

Ion Ratio Lower Upper

95 100

174 72.0 0.0 175.6

176 69.2 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY019979.D

Acq: 22 Oct 2024 14:23

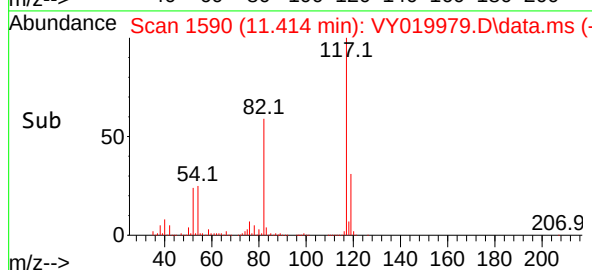
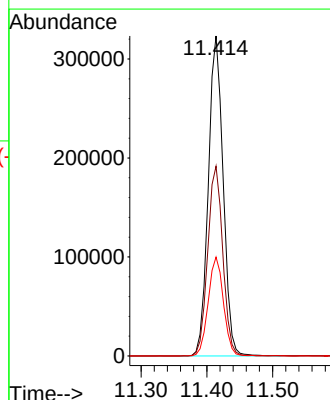
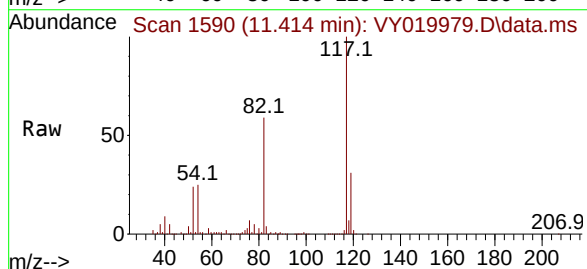
Tgt Ion: 117 Resp: 507425

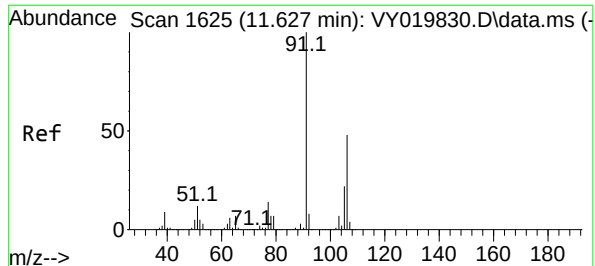
Ion Ratio Lower Upper

117 100

82 59.3 42.4 63.6

119 30.9 25.9 38.9

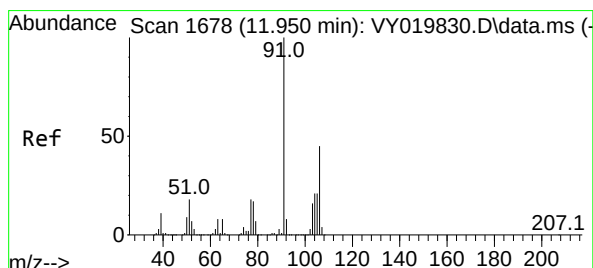
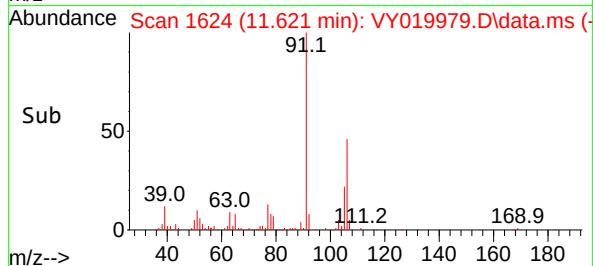
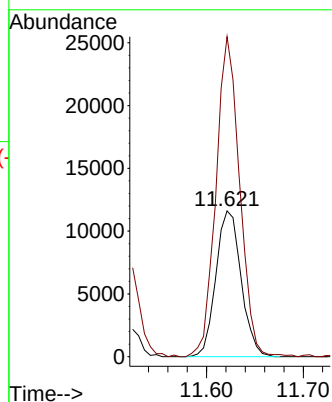
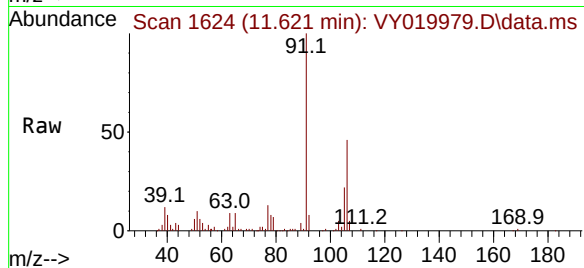




#68
m/p-Xylenes
Concen: 2.696 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

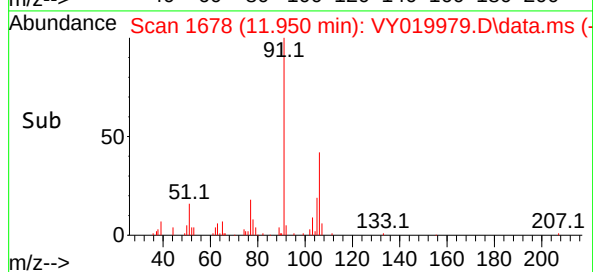
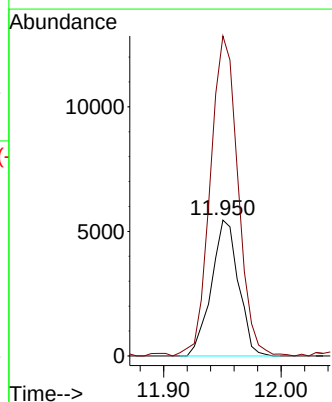
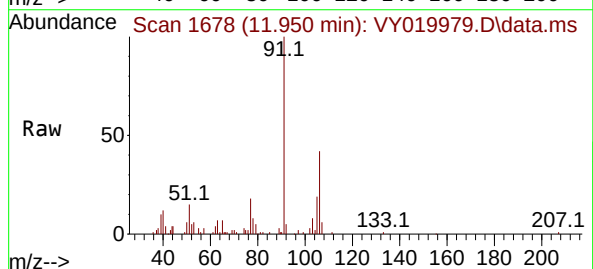
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

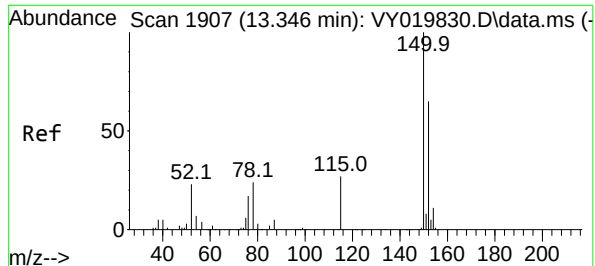
Tgt Ion:106 Resp: 20990
Ion Ratio Lower Upper
106 100
91 206.6 156.0 234.0



#69
o-Xylene
Concen: 1.168 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:106 Resp: 8735
Ion Ratio Lower Upper
106 100
91 240.9 103.6 310.8

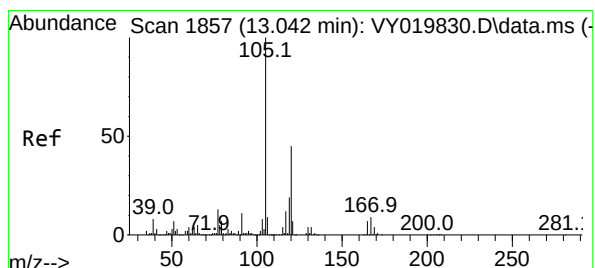
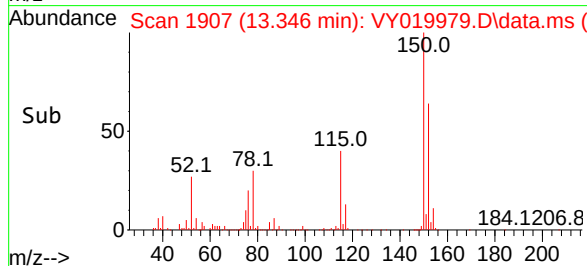
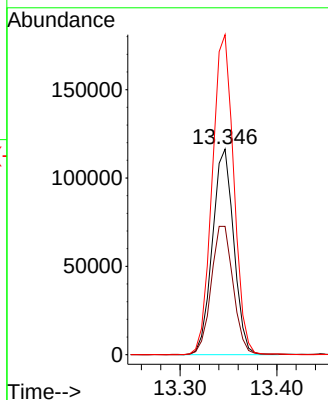
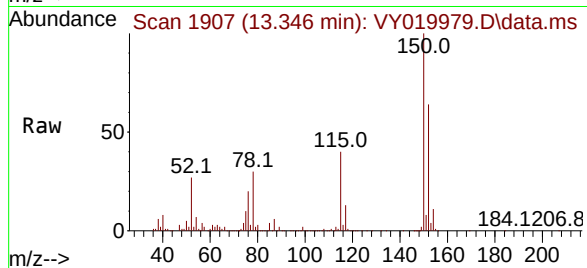




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

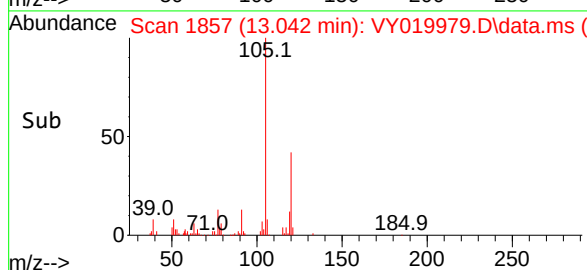
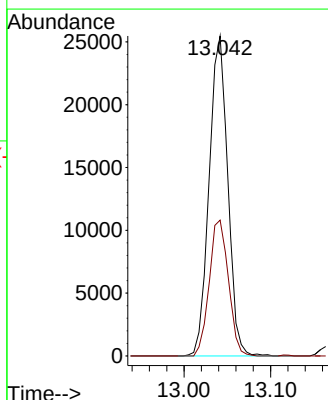
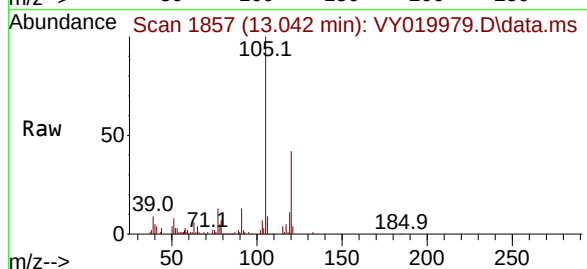
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Tgt Ion:152 Resp: 178248
Ion Ratio Lower Upper
152 100
115 64.4 28.2 84.7
150 157.0 0.0 345.6



#84
1,2,4-Trimethylbenzene
Concen: 3.173 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:105 Resp: 38093
Ion Ratio Lower Upper
105 100
120 43.6 23.2 69.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019979.D
 Acq On : 22 Oct 2024 14:23
 Operator : SY/MD
 Sample : P4471-01
 Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-180-SB01

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_Y\methods\82Y1009245.M
 Title : SW846 8260

Signal : TIC: VY019979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	465	476	493	rBV4	29438	107272	5.55%	0.901%
2	5.647	633	644	654	rBV4	9763	33232	1.72%	0.279%
3	7.634	961	970	976	rBV	261208	633992	32.80%	5.325%
4	7.707	976	982	993	rVV	399931	933405	48.29%	7.840%
5	7.921	1010	1017	1023	rBV5	12321	27941	1.45%	0.235%
6	8.061	1029	1040	1054	rBV	242901	551329	28.52%	4.631%
7	8.250	1065	1071	1081	rVB2	14687	39451	2.04%	0.331%
8	8.469	1100	1107	1118	rVB4	14039	31009	1.60%	0.260%
9	8.616	1122	1131	1147	rBV	706335	1408945	72.90%	11.834%
10	9.109	1201	1212	1218	rBV5	19591	51579	2.67%	0.433%
11	9.542	1276	1283	1293	rBV4	12020	25774	1.33%	0.216%
12	9.676	1300	1305	1310	rVB3	14895	28472	1.47%	0.239%
13	9.743	1312	1316	1321	rBV2	12415	22404	1.16%	0.188%
14	9.890	1328	1340	1350	rBV4	14390	35784	1.85%	0.301%
15	10.103	1368	1375	1382	rBV	1140564	1932795	100.00%	16.234%
16	10.170	1382	1386	1392	rVB	58304	98670	5.11%	0.829%
17	10.298	1399	1407	1413	rVB3	22729	47371	2.45%	0.398%
18	10.536	1439	1446	1454	rVB10	8552	22846	1.18%	0.192%
19	11.207	1552	1556	1566	rVB6	11993	27646	1.43%	0.232%
20	11.414	1583	1590	1600	rBV	1055691	1690994	87.49%	14.203%
21	11.518	1602	1607	1615	rVV	25214	44359	2.30%	0.373%
22	11.621	1616	1624	1635	rVV	80120	163284	8.45%	1.371%
23	11.950	1669	1678	1687	rBV	40535	77218	4.00%	0.649%
24	12.402	1744	1752	1762	rVB	738722	1193793	61.77%	10.027%
25	12.591	1774	1783	1788	rBV	13863	23863	1.23%	0.200%
26	12.658	1788	1794	1797	rVV	39330	63361	3.28%	0.532%
27	12.688	1797	1799	1802	rVV2	16786	22756	1.18%	0.191%
28	12.731	1802	1806	1811	rVB2	34568	52966	2.74%	0.445%
29	12.889	1827	1832	1838	rBV	17108	28746	1.49%	0.241%
30	13.042	1851	1857	1865	rBV	74629	117743	6.09%	0.989%
31	13.346	1900	1907	1916	rBV	775761	1248938	64.62%	10.490%
32	13.542	1935	1939	1942	rVV2	30148	49059	2.54%	0.412%
33	13.584	1942	1946	1956	rVB3	29999	63545	3.29%	0.534%
34	13.804	1976	1982	1985	rVV2	16455	31425	1.63%	0.264%
35	13.834	1985	1987	1990	rVV2	16799	21614	1.12%	0.182%
36	13.883	1990	1995	2002	rVB3	129770	210189	10.87%	1.765%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

37	13.999	2009	2014	2020	rVB2	20274	31138	1.61%	0.262%
38	14.133	2029	2036	2039	rBV6	9599	21217	1.10%	0.178%
39	14.212	2045	2049	2052	rBV	15603	22297	1.15%	0.187%
40	14.249	2052	2055	2060	rVB	25325	34805	1.80%	0.292%
41	14.298	2060	2063	2066	rBV4	14734	20198	1.05%	0.170%
42	14.480	2089	2093	2098	rBV3	17901	34999	1.81%	0.294%
43	14.529	2098	2101	2106	rVV2	14955	20094	1.04%	0.169%
44	14.596	2106	2112	2117	rVV4	31795	71147	3.68%	0.598%
45	14.651	2117	2121	2127	rVB2	14881	24656	1.28%	0.207%
46	14.858	2150	2155	2158	rBV4	16226	26002	1.35%	0.218%
47	14.968	2167	2173	2177	rBV6	16634	29923	1.55%	0.251%
48	15.127	2192	2199	2206	rBV10	12078	31811	1.65%	0.267%
49	15.431	2242	2249	2255	rBV5	12999	30326	1.57%	0.255%
50	15.584	2268	2274	2276	rVV6	11106	22111	1.14%	0.186%
51	15.620	2277	2280	2286	rVB3	24835	39604	2.05%	0.333%
52	15.779	2300	2306	2312	rBV9	10907	26604	1.38%	0.223%
53	15.925	2324	2330	2335	rVB8	16447	35787	1.85%	0.301%
54	16.114	2354	2361	2366	rVV6	20964	45798	2.37%	0.385%
55	16.175	2366	2371	2379	rVB	36053	72615	3.76%	0.610%
56	16.370	2397	2403	2416	rVB4	28498	80522	4.17%	0.676%
57	16.504	2418	2425	2434	rVB4	7626	20448	1.06%	0.172%

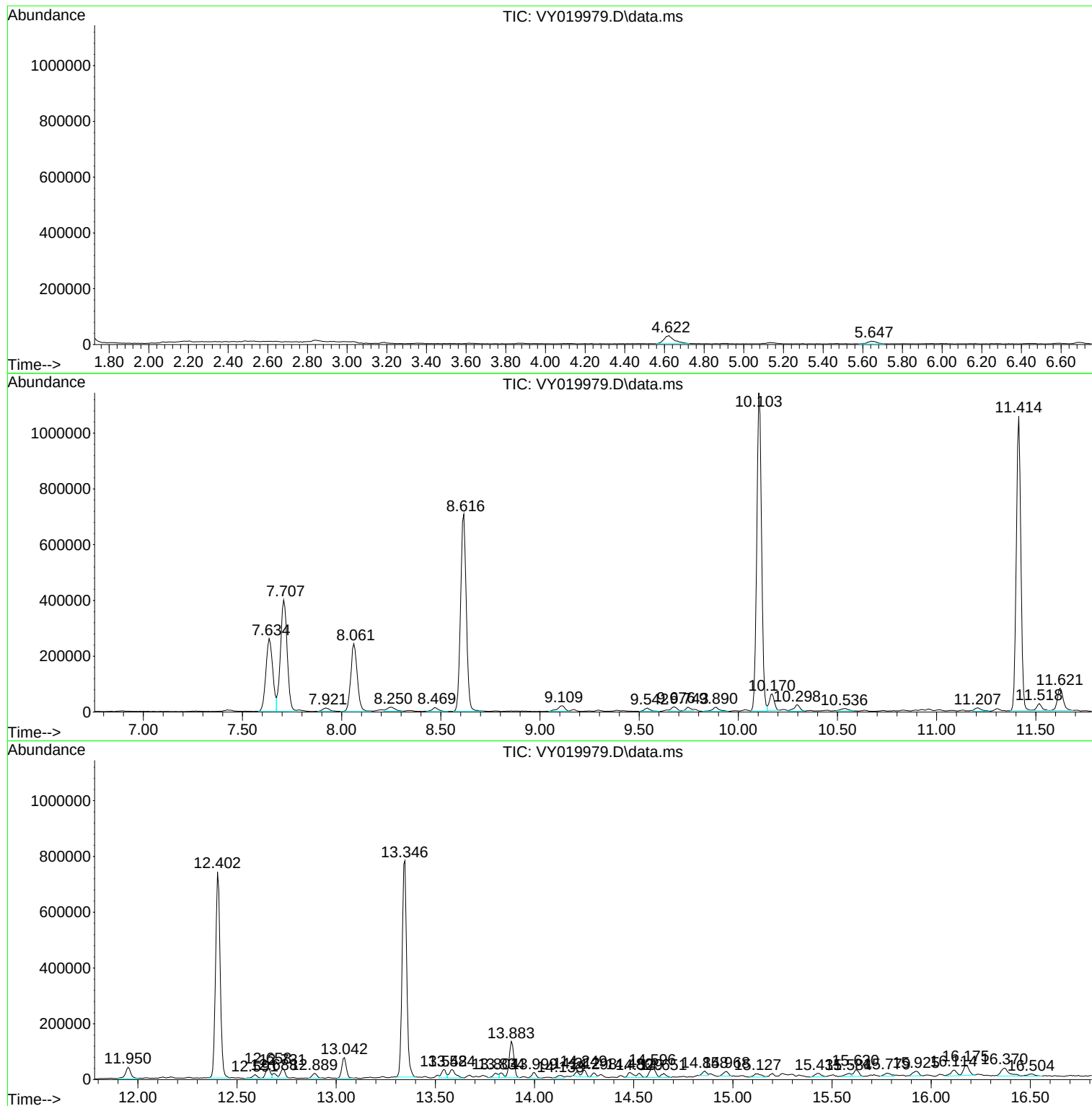
Sum of corrected areas: 11905872

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	49.2
Sample Wt/Vol:	3.8 Units: g	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
VY019993.D	1		10/23/24 14:45	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.40	U	4.40	13.4	ug/Kg
74-87-3	Chloromethane	3.10	U	3.10	13.4	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	2.10	13.4	ug/Kg
74-83-9	Bromomethane	2.80	U	2.80	13.4	ug/Kg
75-00-3	Chloroethane	2.70	U	2.70	13.4	ug/Kg
75-69-4	Trichlorofluoromethane	2.40	U	2.40	13.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.90	U	2.90	13.4	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	2.10	13.4	ug/Kg
67-64-1	Acetone	360		16.7	66.9	ug/Kg
75-15-0	Carbon Disulfide	25.8		3.40	13.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	1.80	13.4	ug/Kg
79-20-9	Methyl Acetate	4.80	U	4.80	13.4	ug/Kg
75-09-2	Methylene Chloride	9.10	U	9.10	26.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.20	U	2.20	13.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.70	U	1.70	13.4	ug/Kg
110-82-7	Cyclohexane	1.80	U	1.80	13.4	ug/Kg
78-93-3	2-Butanone	100		15.2	66.9	ug/Kg
56-23-5	Carbon Tetrachloride	2.30	U	2.30	13.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.60	U	1.60	13.4	ug/Kg
74-97-5	Bromochloromethane	6.50	U	6.50	13.4	ug/Kg
67-66-3	Chloroform	1.80	U	1.80	13.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	2.10	13.4	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	2.30	13.4	ug/Kg
71-43-2	Benzene	1.90	U	1.90	13.4	ug/Kg
107-06-2	1,2-Dichloroethane	1.60	U	1.60	13.4	ug/Kg
79-01-6	Trichloroethene	2.00	U	2.00	13.4	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	1.80	13.4	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	1.50	13.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.6	U	11.6	66.9	ug/Kg
108-88-3	Toluene	5.60	J	1.80	13.4	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/21/24
Client Sample ID:	B-180-SB02			SDG No.:	P4471
Lab Sample ID:	P4471-02			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	49.2
Sample Wt/Vol:	3.8	Units:	g	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
VY019993.D	1		10/23/24 14:45	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.60	U	1.60	13.4	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.50	U	1.50	13.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.20	U	2.20	13.4	ug/Kg
591-78-6	2-Hexanone	12.8	U	12.8	66.9	ug/Kg
124-48-1	Dibromochloromethane	1.70	U	1.70	13.4	ug/Kg
106-93-4	1,2-Dibromoethane	2.10	U	2.10	13.4	ug/Kg
127-18-4	Tetrachloroethene	2.40	U	2.40	13.4	ug/Kg
108-90-7	Chlorobenzene	2.00	U	2.00	13.4	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	1.70	13.4	ug/Kg
179601-23-1	m/p-Xylenes	4.20	J	3.60	26.7	ug/Kg
95-47-6	o-Xylene	1.90	U	1.90	13.4	ug/Kg
100-42-5	Styrene	1.60	U	1.60	13.4	ug/Kg
75-25-2	Bromoform	2.20	U	2.20	13.4	ug/Kg
98-82-8	Isopropylbenzene	120		1.80	13.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.90	U	2.90	13.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	13.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	13.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	13.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.20	U	4.20	13.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.10	U	2.10	13.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.10	U	2.10	13.4	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.9		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	34.7	*	70 (29) - 130 (146)	69%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	211000	7.707
540-36-3	1,4-Difluorobenzene	423000	8.615
3114-55-4	Chlorobenzene-d5	336000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	95100	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	49.2
Sample Wt/Vol:	3.8 Units: g	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
VY019993.D	1		10/23/24 14:45	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
60-29-7	Diethyl Ether	3.00	J		3.47	ug/Kg
000471-84-1	Bicyclo[2.2.1]heptane, 7,7-dimethy	64.0	J		12.5	ug/Kg
000079-92-5	Camphene	86.7	J		12.5	ug/Kg
000500-00-5	Cyclohexene, 4-methyl-1-(1-methyle	120	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	6.50	J		13.0	ug/Kg
99-87-6	p-Isopropyltoluene	290	J		13.3	ug/Kg
	unknown13.669	110	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	83.7	J		14.2	ug/Kg
1000101-47-9	1-Iodo-2-methylnonane	88.7	J		14.5	ug/Kg
006044-71-9	Dodecane, 6-methyl-	64.9	J		14.6	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	41.1	J		15.1	ug/Kg
000629-50-5	Tridecane	55.0	J		15.3	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019993.D
 Acq On : 23 Oct 2024 14:45
 Operator : SY/MD
 Sample : P4471-02
 Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-180-SB02

Quant Time: Oct 23 23:08:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

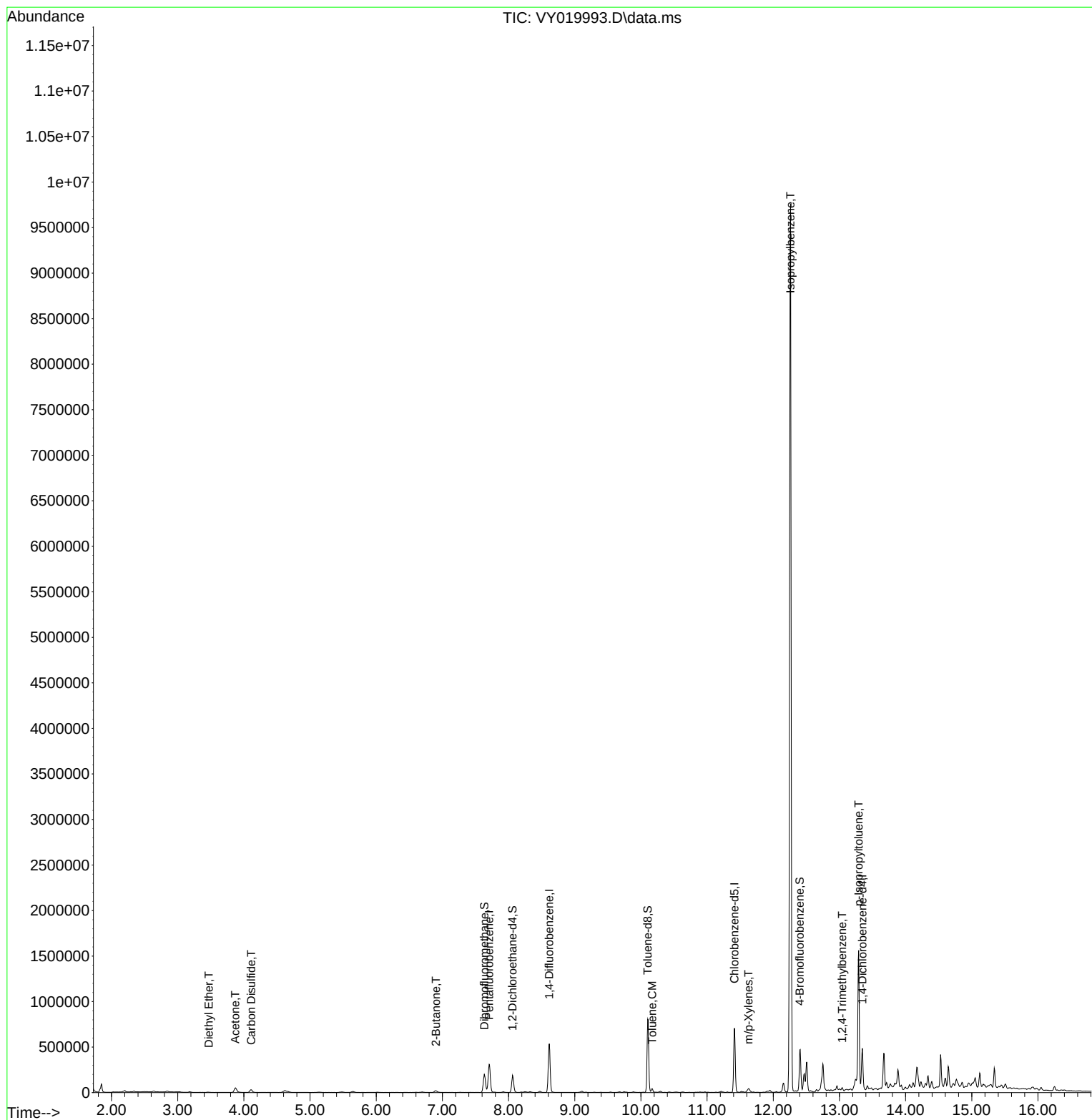
Internal Standards						
1) Pentafluorobenzene	7.707	168	211103	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	422929	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	336247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	95105	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	137413	52.865	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	= 105.740%		
35) Dibromofluoromethane	7.634	113	136178	48.794	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	= 97.580%		
50) Toluene-d8	10.103	98	510827	49.565	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	= 99.120%		
62) 4-Bromofluorobenzene	12.401	95	129366	34.739	ug/l	0.00
Spiked Amount	50.000	Range 29 - 146	Recovery	= 69.480%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.470	74	1436	1.128	ug/l	61
16) Acetone	3.872	43	91027	134.528	ug/l #	86
17) Carbon Disulfide	4.110	76	58543	9.644	ug/l	98
25) 2-Butanone	6.902	43	34019	37.561	ug/l #	83
52) Toluene	10.170	92	16003	2.107	ug/l	94
68) m/p-Xylenes	11.627	106	8079	1.566	ug/l	79
73) Isopropylbenzene	12.261	105	346599	43.327	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.041	105	15636	2.441	ug/l	92
86) p-Isopropyltoluene	13.291	119	759982	108.235	ug/l	94

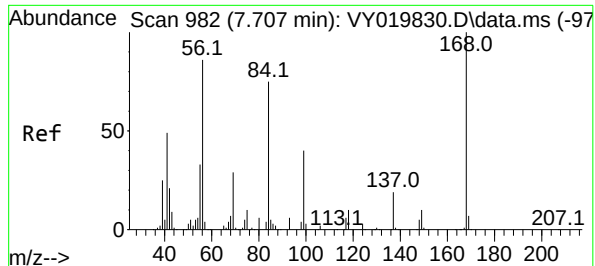
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Time: Oct 23 23:08:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

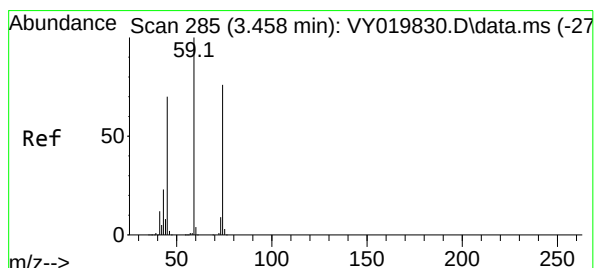
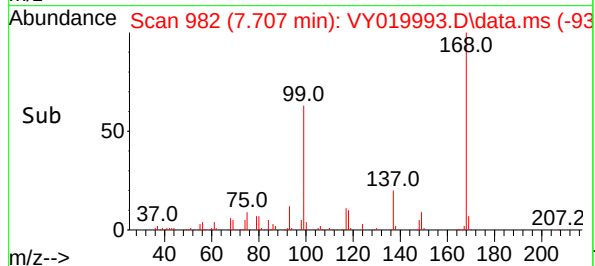
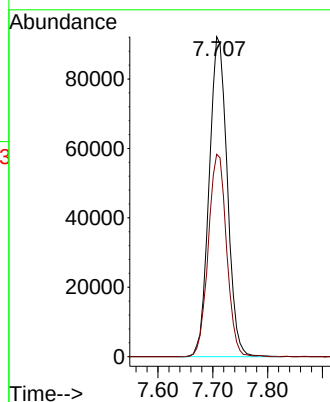
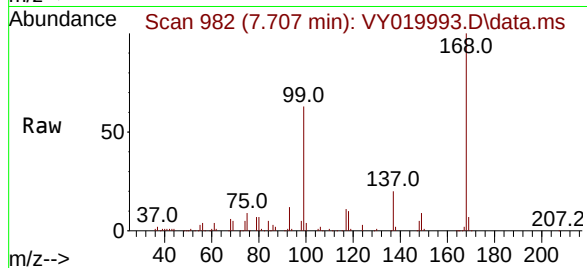




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

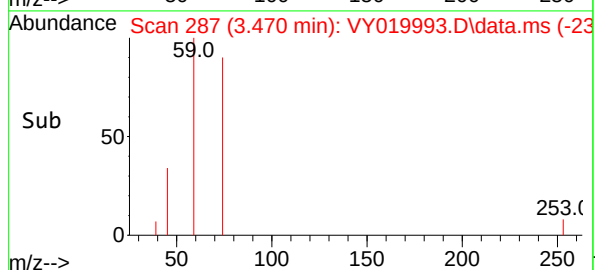
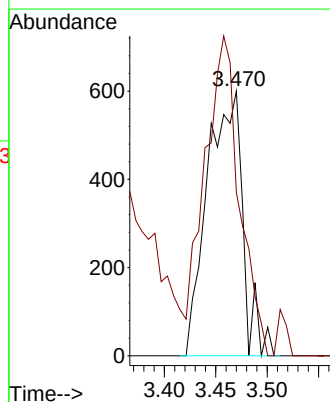
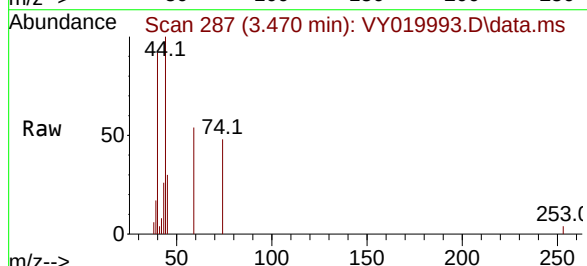
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

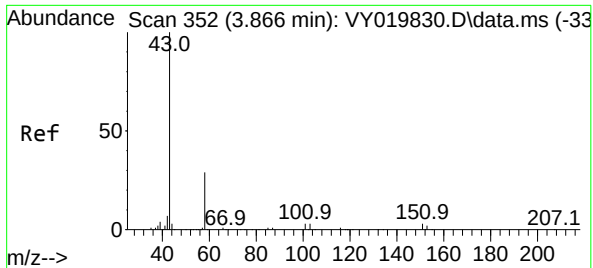
Tgt Ion:168 Resp: 211103
Ion Ratio Lower Upper
168 100
99 63.3 39.1 58.7#



#8
Diethyl Ether
Concen: 1.128 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.012 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 74 Resp: 1436
Ion Ratio Lower Upper
74 100
45 118.1 41.3 124.1

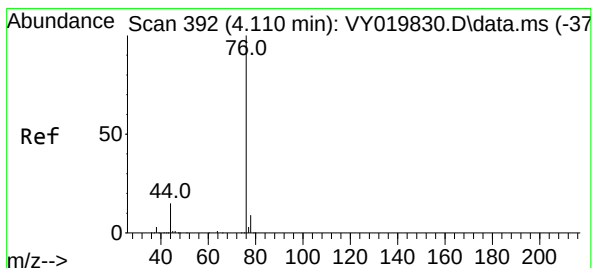
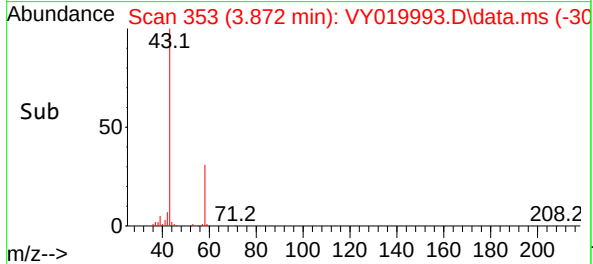
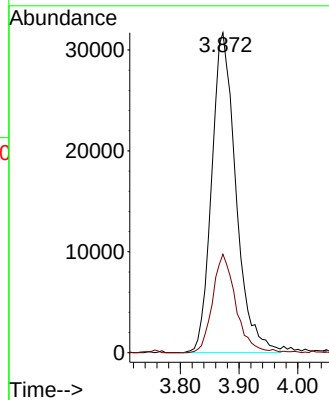
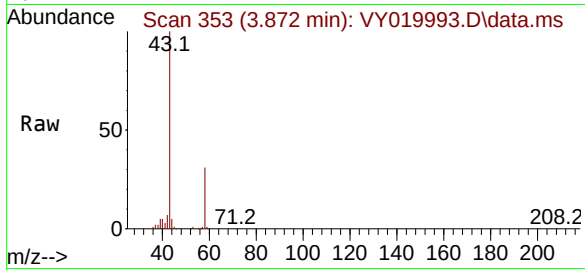




#16
Acetone
Concen: 134.528 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

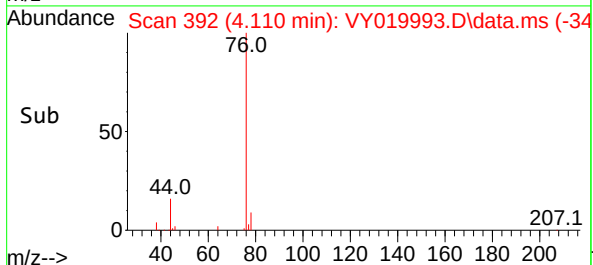
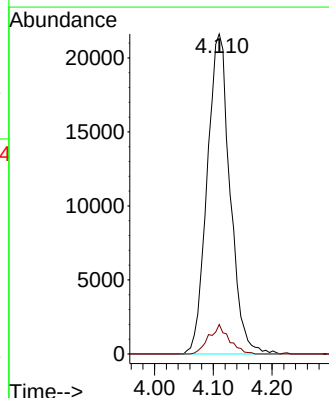
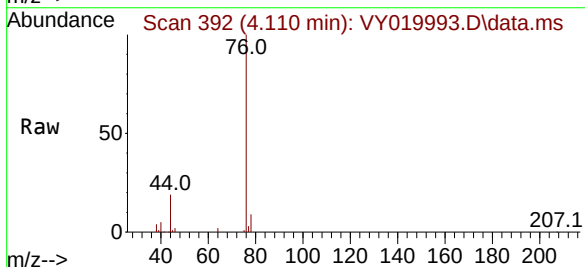
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

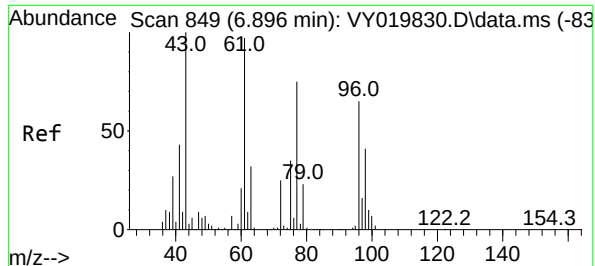
Tgt Ion: 43 Resp: 91027
Ion Ratio Lower Upper
43 100
58 30.8 31.7 47.5#



#17
Carbon Disulfide
Concen: 9.644 ug/l
RT: 4.110 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 76 Resp: 58543
Ion Ratio Lower Upper
76 100
78 9.2 6.8 10.2





#25

2-Butanone

Concen: 37.561 ug/l

RT: 6.902 min Scan# 849

Delta R.T. 0.012 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

Instrument :

MSVOA_Y

ClientSampleId :

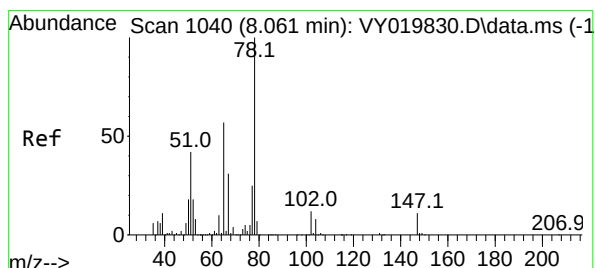
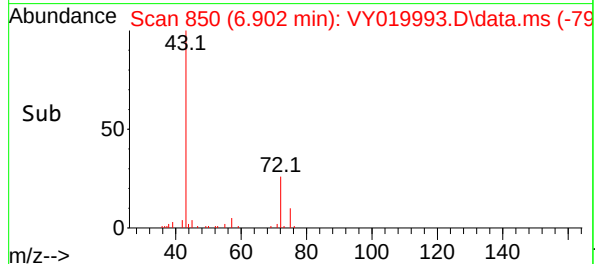
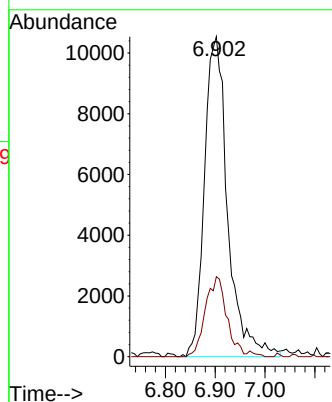
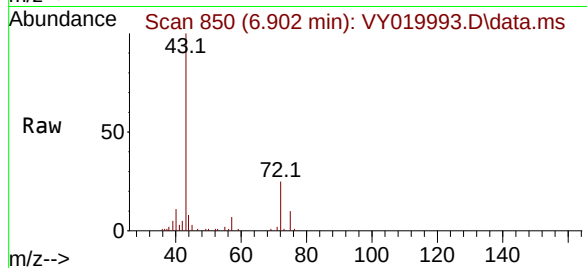
B-180-SB02

Tgt Ion: 43 Resp: 34019

Ion Ratio Lower Upper

43 100

72 24.5 27.3 40.9#



#33

1,2-Dichloroethane-d4

Concen: 52.865 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY019993.D

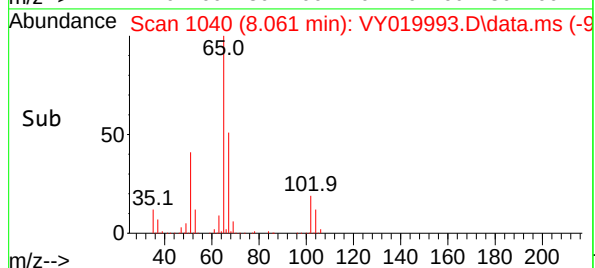
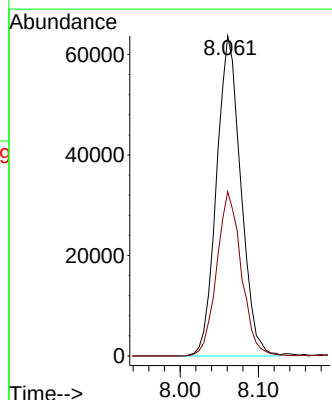
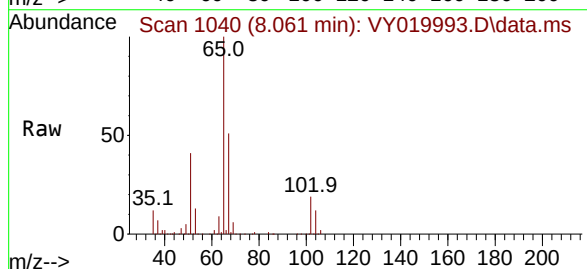
Acq: 23 Oct 2024 14:45

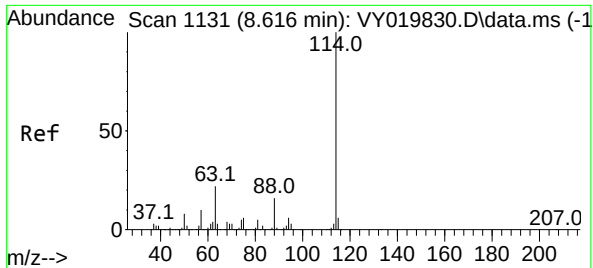
Tgt Ion: 65 Resp: 137413

Ion Ratio Lower Upper

65 100

67 51.9 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

Instrument :

MSVOA_Y

ClientSampleId :

B-180-SB02

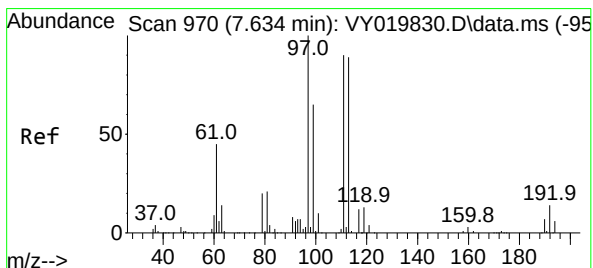
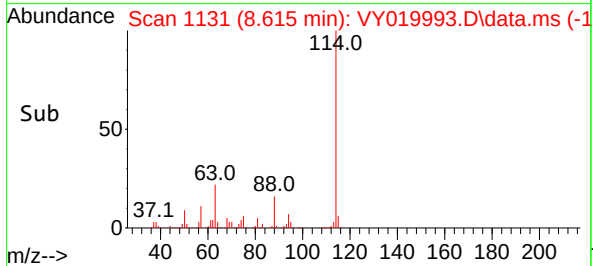
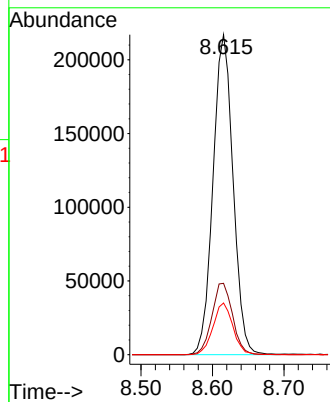
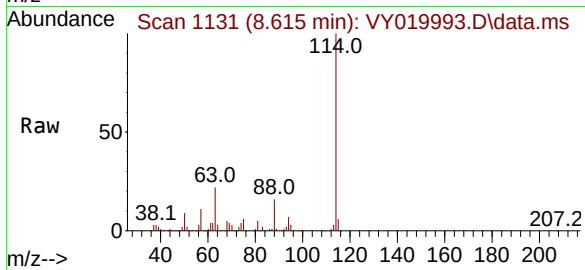
Tgt Ion:114 Resp: 422929

Ion Ratio Lower Upper

114 100

63 22.3 0.0 35.0

88 16.2 0.0 27.2



#35

Dibromofluoromethane

Concen: 48.794 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

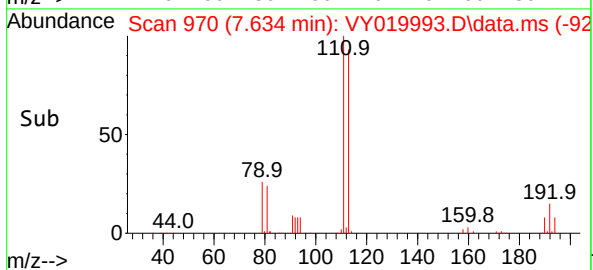
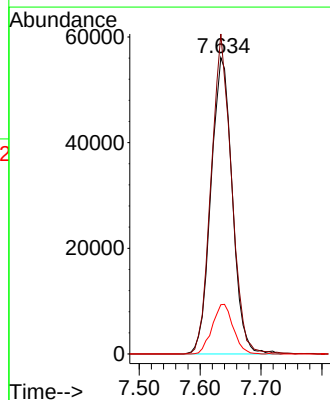
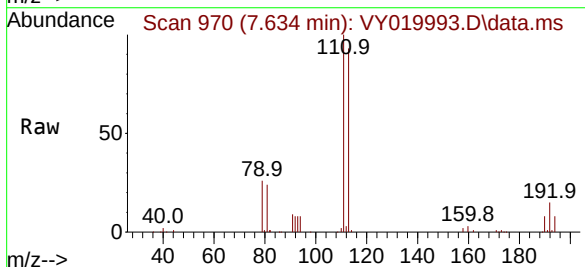
Tgt Ion:113 Resp: 136178

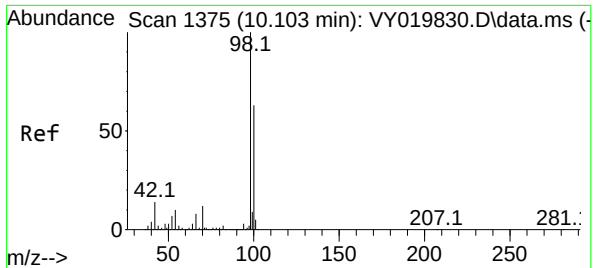
Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

192 16.4 15.9 23.9

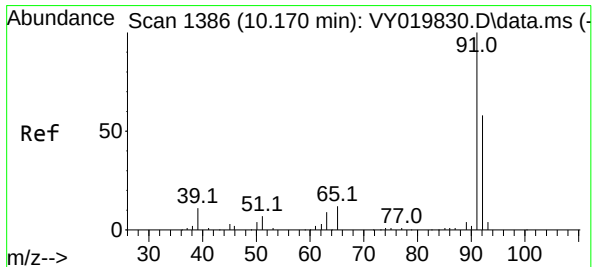
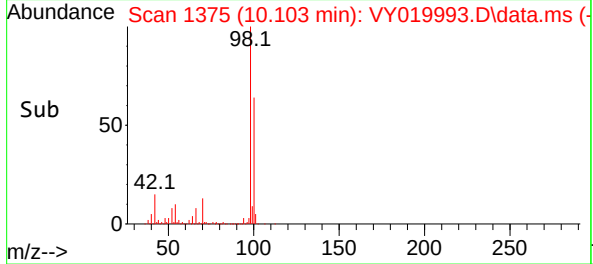
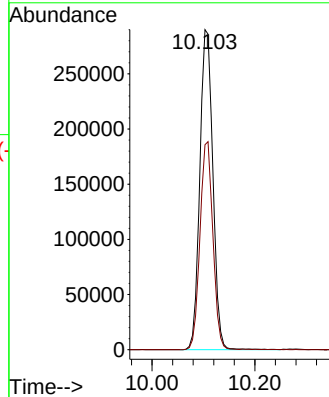
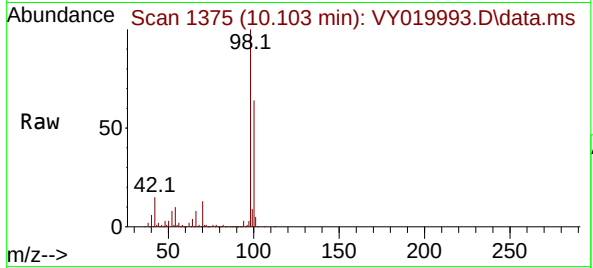




#50
Toluene-d8
Concen: 49.565 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

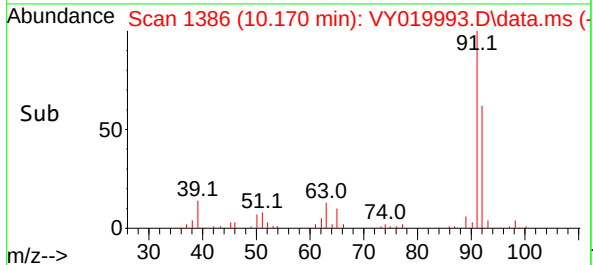
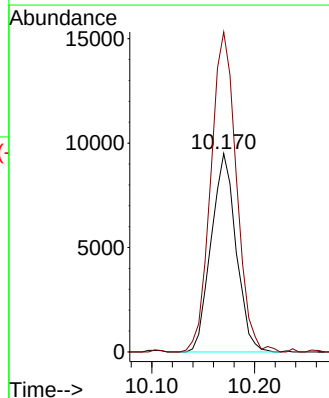
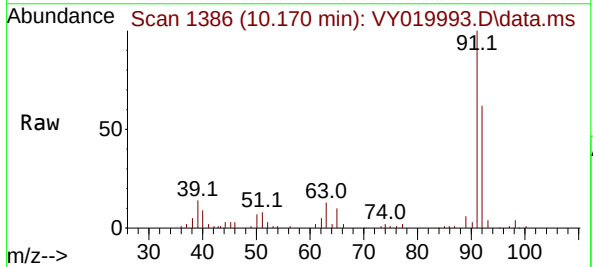
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

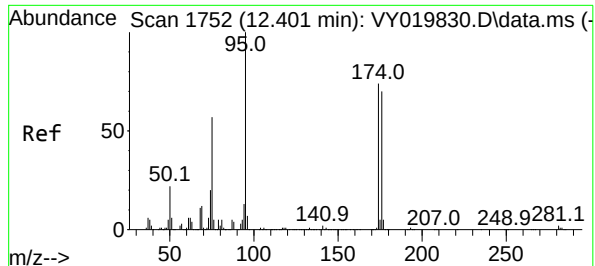
Tgt Ion: 98 Resp: 510827
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#52
Toluene
Concen: 2.107 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 92 Resp: 16003
Ion Ratio Lower Upper
92 100
91 166.0 139.0 208.6





#62

4-Bromofluorobenzene

Concen: 34.739 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

Instrument :

MSVOA_Y

ClientSampleId :

B-180-SB02

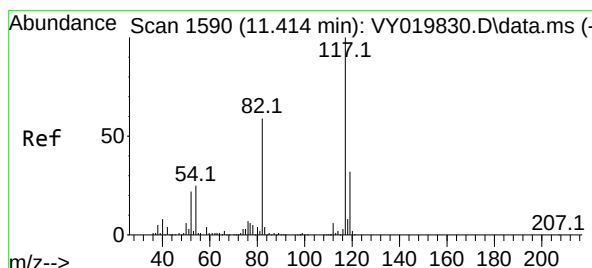
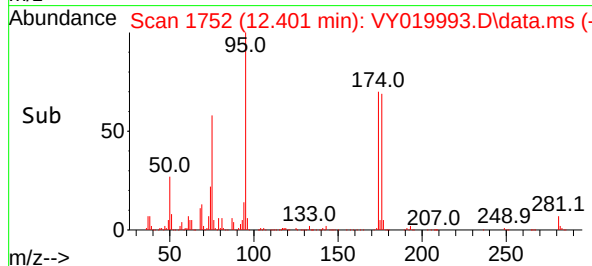
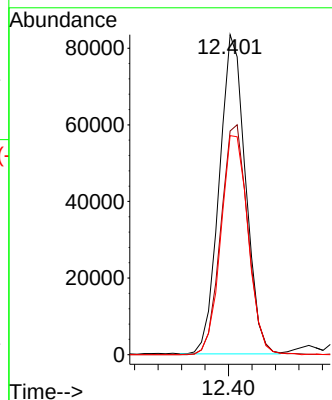
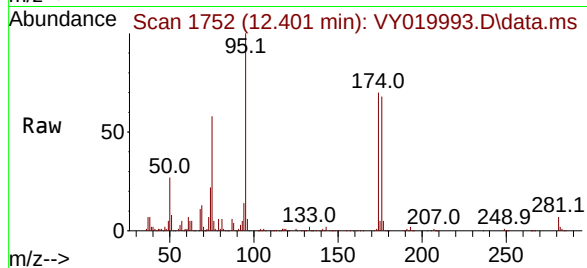
Tgt Ion: 95 Resp: 129366

Ion Ratio Lower Upper

95 100

174 74.4 0.0 175.6

176 71.5 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

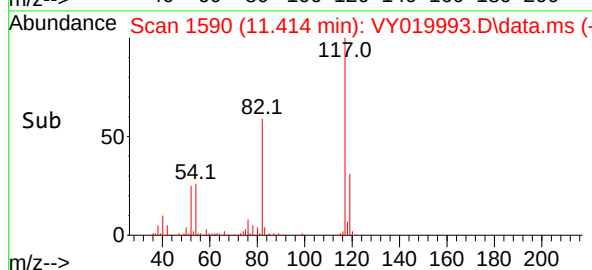
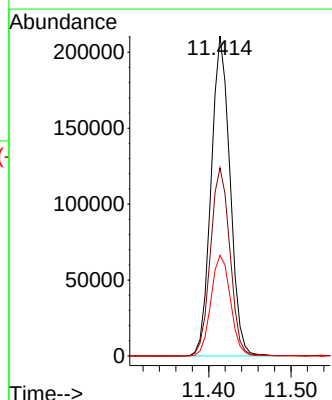
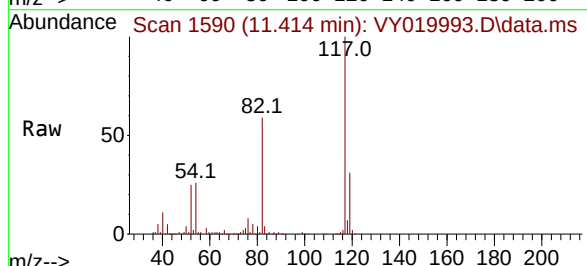
Tgt Ion: 117 Resp: 336247

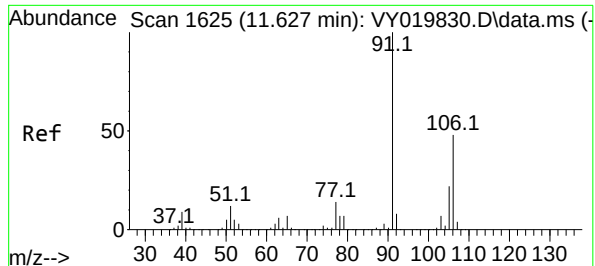
Ion Ratio Lower Upper

117 100

82 58.8 42.4 63.6

119 31.5 25.9 38.9





#68

m/p-Xylenes

Concen: 1.566 ug/l

RT: 11.627 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

Instrument :

MSVOA_Y

ClientSampleId :

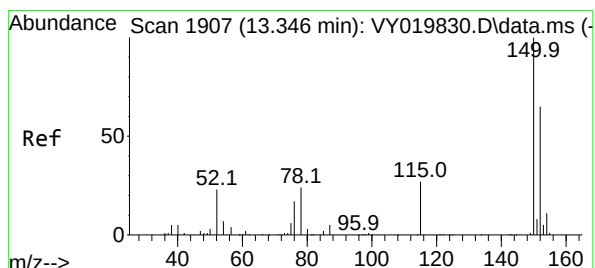
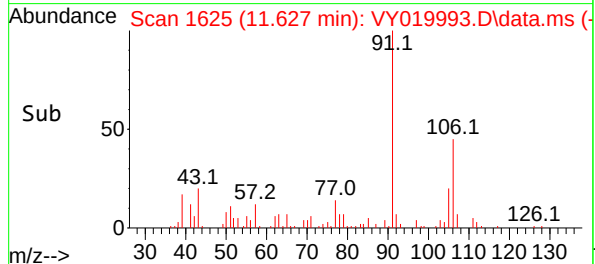
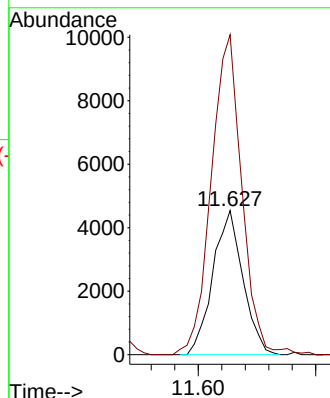
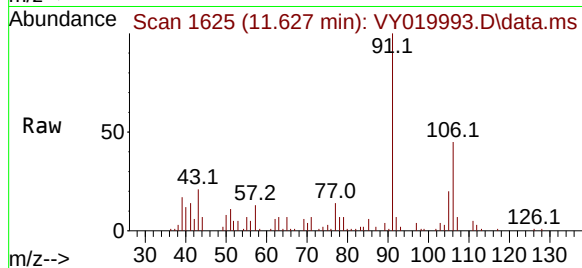
B-180-SB02

Tgt Ion:106 Resp: 8079

Ion Ratio Lower Upper

106 100

91 225.9 156.0 234.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019993.D

Acq: 23 Oct 2024 14:45

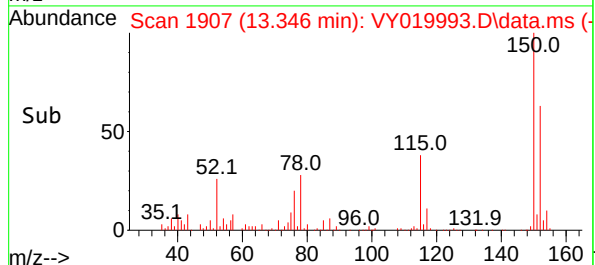
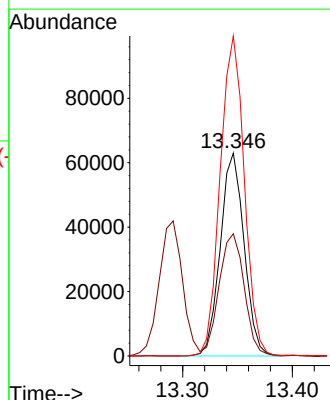
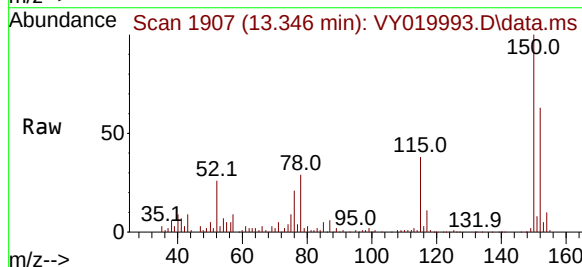
Tgt Ion:152 Resp: 95105

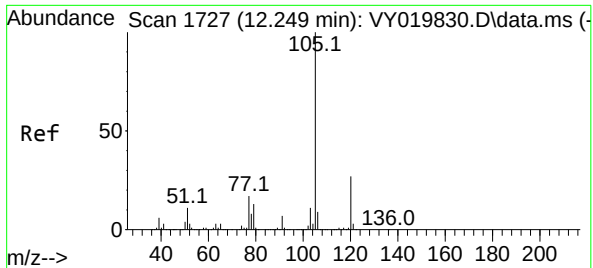
Ion Ratio Lower Upper

152 100

115 63.7 28.2 84.7

150 160.0 0.0 345.6

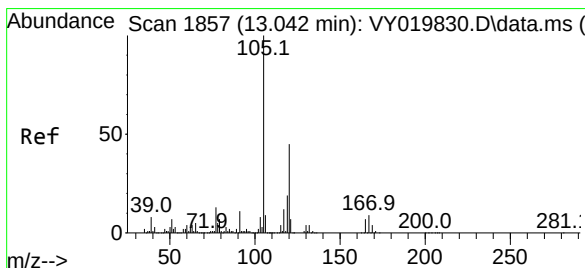
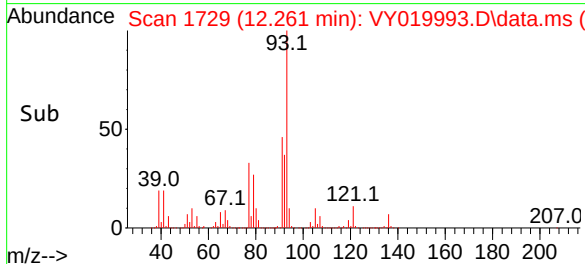
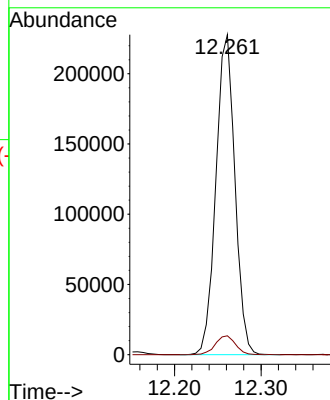
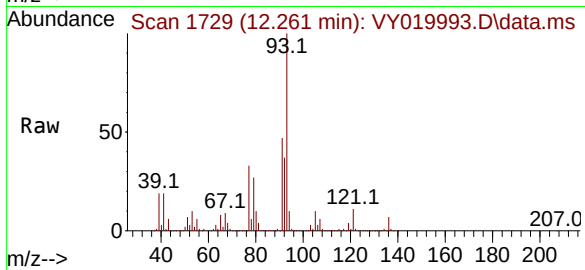




#73
Isopropylbenzene
Concen: 43.327 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

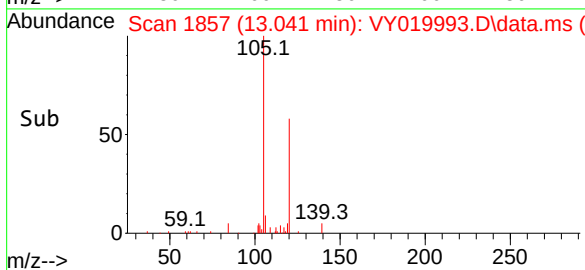
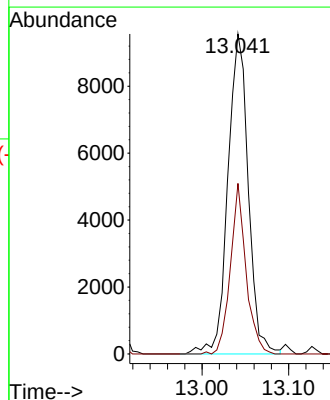
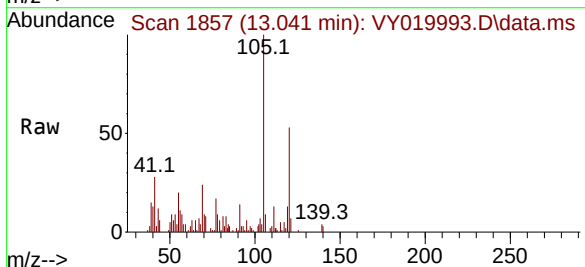
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

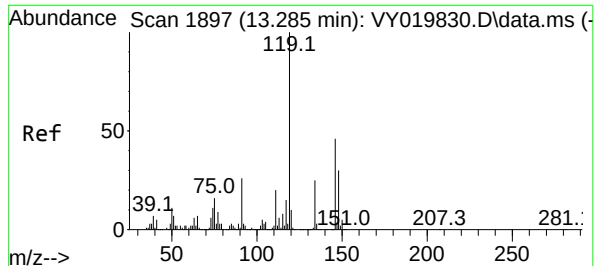
Tgt Ion:105 Resp: 346599
Ion Ratio Lower Upper
105 100
120 6.3 13.4 40.1#



#84
1,2,4-Trimethylbenzene
Concen: 2.441 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion:105 Resp: 15636
Ion Ratio Lower Upper
105 100
120 40.9 23.2 69.6





#86

p-Isopropyltoluene

Concen: 108.235 ug/l

RT: 13.291 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019993.D

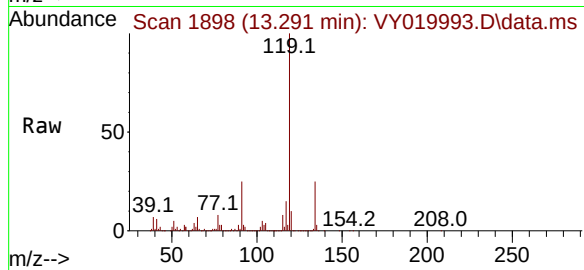
Acq: 23 Oct 2024 14:45

Instrument :

MSVOA_Y

ClientSampleId :

B-180-SB02



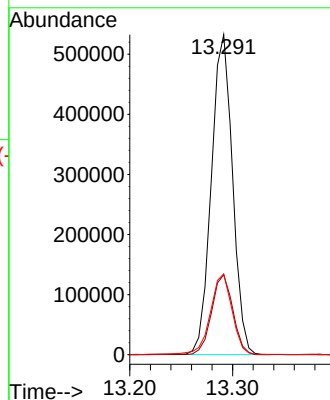
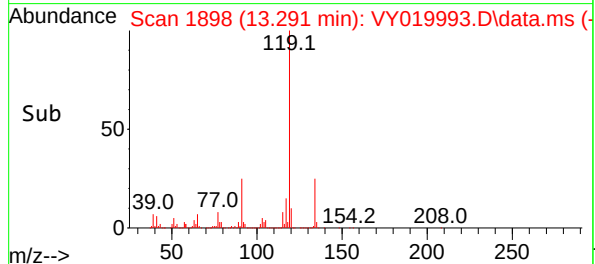
Tgt Ion:119 Resp: 759982

Ion Ratio Lower Upper

119 100

134 24.9 13.1 39.3

91 26.0 10.7 32.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019993.D
 Acq On : 23 Oct 2024 14:45
 Operator : SY/MD
 Sample : P4471-02
 Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-180-SB02

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_Y\methods\82Y1009245.M
 Title : SW846 8260

Signal : TIC: VY019993.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.848	13	21	29	rVB	90343	166155	1.10%	0.556%
2	7.634	958	970	976	rBV	198435	475279	3.13%	1.591%
3	7.707	976	982	993	rVB	305218	703451	4.64%	2.355%
4	8.061	1031	1040	1052	rBV	187779	406217	2.68%	1.360%
5	8.615	1122	1131	1147	rBV	535077	1070675	7.06%	3.584%
6	10.103	1368	1375	1382	rBV	805753	1424668	9.40%	4.769%
7	11.414	1583	1590	1603	rBV	705336	1148646	7.58%	3.845%
8	12.151	1702	1711	1721	rBV2	100060	204857	1.35%	0.686%
9	12.261	1721	1729	1737	rBV	9749877	15161734	100.00%	50.758%
10	12.407	1744	1753	1758	rBV2	457058	785140	5.18%	2.628%
11	12.468	1758	1763	1766	rVV	191615	355476	2.34%	1.190%
12	12.505	1766	1769	1776	rVB	322725	481328	3.17%	1.611%
13	12.749	1797	1809	1818	rBV3	297936	653503	4.31%	2.188%
14	13.243	1881	1890	1892	rBV5	118337	250462	1.65%	0.838%
15	13.291	1892	1898	1902	rVV	1533497	2323512	15.32%	7.779%
16	13.346	1902	1907	1915	rVB	454610	742591	4.90%	2.486%
17	13.669	1954	1960	1965	rBV2	385013	634912	4.19%	2.126%
18	13.883	1991	1995	2000	rVB	187374	303297	2.00%	1.015%
19	14.169	2036	2042	2049	rBV8	215331	464611	3.06%	1.555%
20	14.340	2066	2070	2074	rVB	131755	198757	1.31%	0.665%
21	14.529	2096	2101	2108	rBV2	355345	492599	3.25%	1.649%
22	14.596	2108	2112	2116	rVV3	97843	168446	1.11%	0.564%
23	14.645	2116	2120	2127	rVB2	227138	360662	2.38%	1.207%
24	14.767	2136	2140	2148	rVB4	79746	172721	1.14%	0.578%
25	15.053	2183	2187	2192	rVB5	103772	187418	1.24%	0.627%
26	15.120	2193	2198	2203	rBV	151016	228026	1.50%	0.763%
27	15.340	2230	2234	2241	rVB	214339	305458	2.01%	1.023%

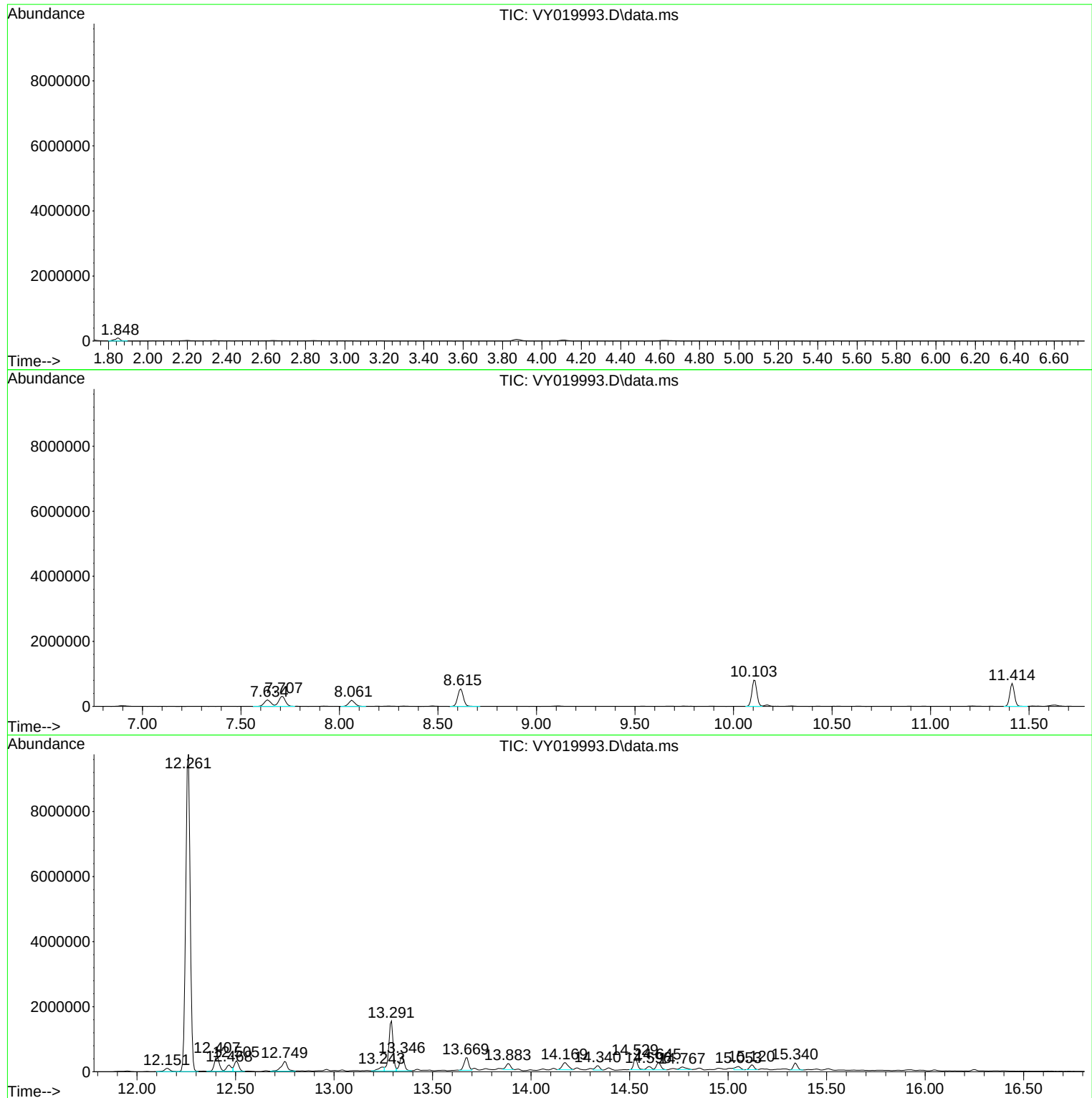
Sum of corrected areas: 29870601

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

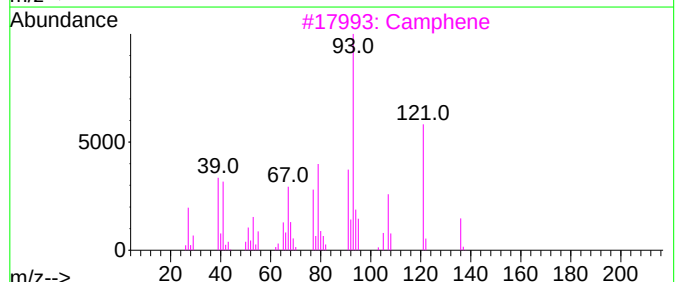
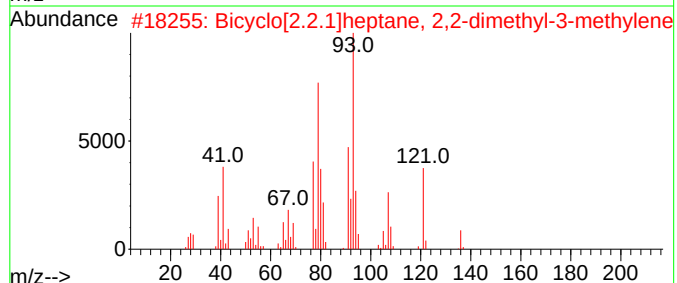
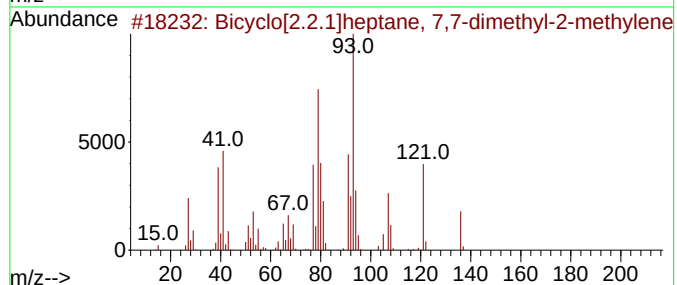
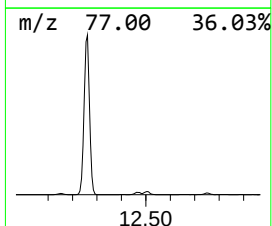
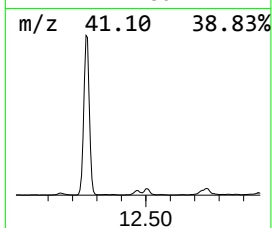
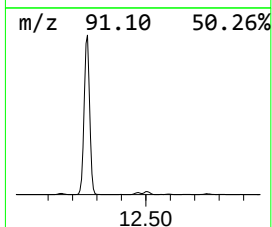
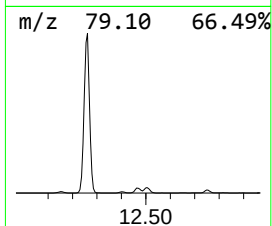
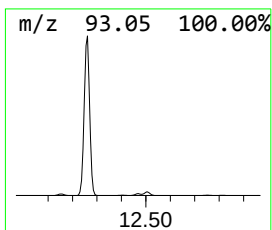
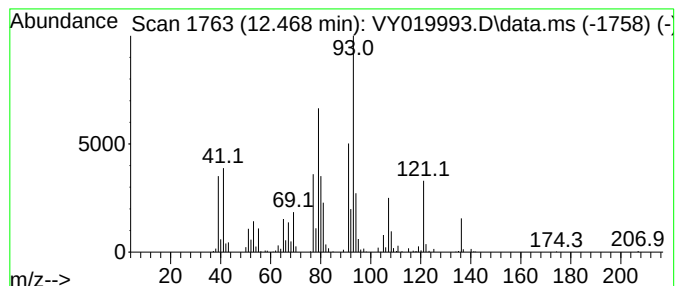
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Quant Title : SW846 8260

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

Peak Number 1 Bicyclo[2.2.1]heptane, 7,7-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.468	23.93 ug/l	355476	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[2.2.1]heptane, 7,7-dimet...	136	C10H16	000471-84-1	98
2			Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-03-6	97
3			Camphene	136	C10H16	000079-92-5	86
4			1,3,6-Heptatriene, 2,5,5-trimethyl-	136	C10H16	029548-02-5	64
5			3-Carene	136	C10H16	013466-78-9	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

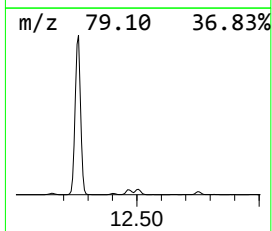
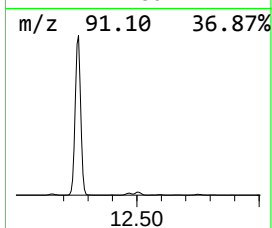
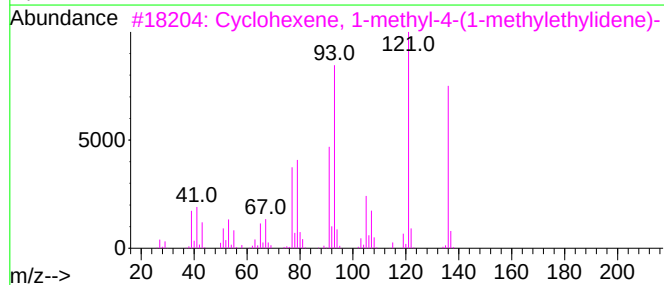
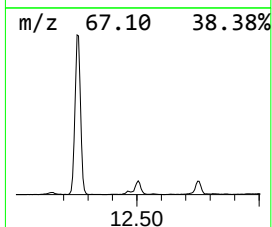
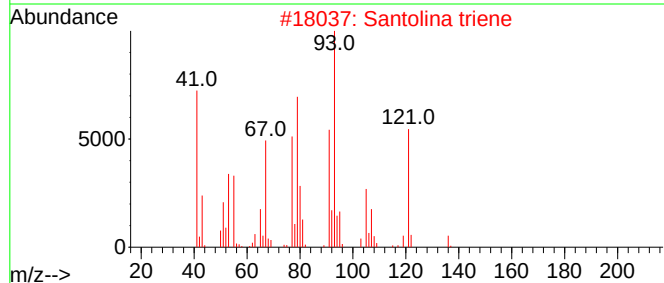
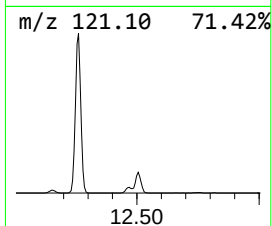
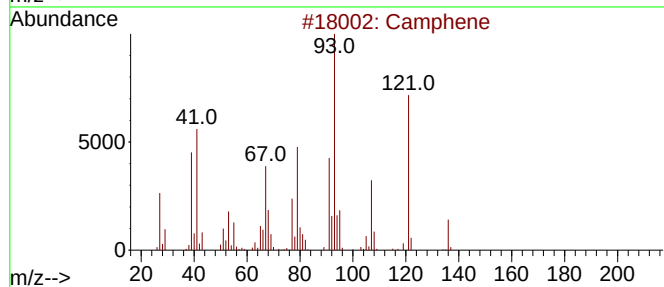
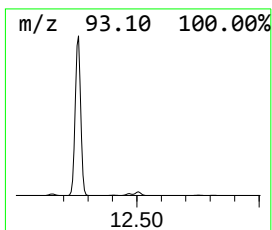
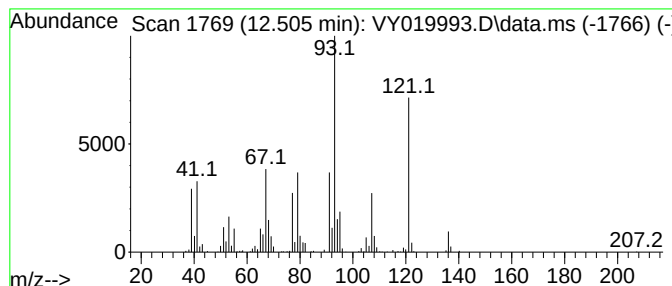
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Quant Title : SW846 8260

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

Peak Number 2 Camphene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.505	32.41 ug/l	481328	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Camphene	136	C10H16	000079-92-5	87
2			Santolina triene	136	C10H16	002153-66-4	59
3			Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	000586-62-9	58
4			4-Carene, (1S,3S,6R)-(-)-	136	C10H16	005208-50-4	58
5			.beta.-Pinene	136	C10H16	000127-91-3	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

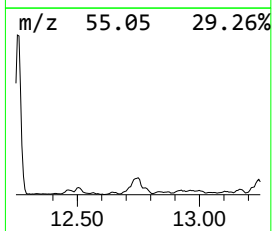
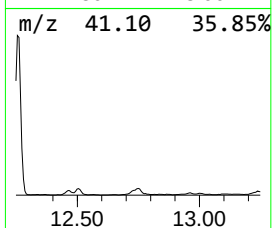
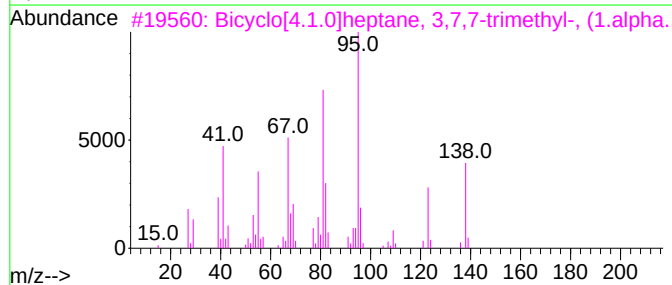
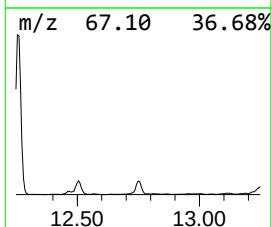
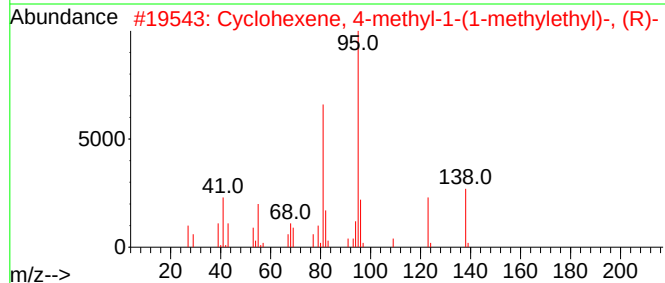
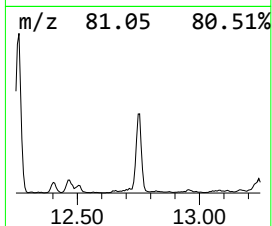
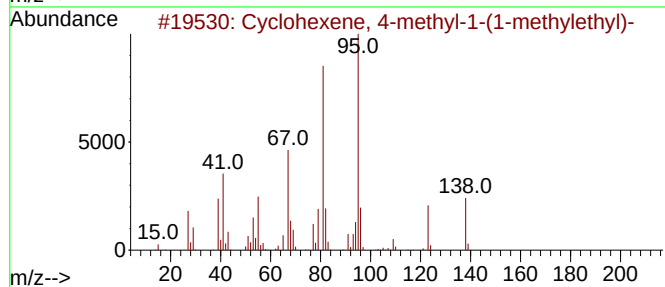
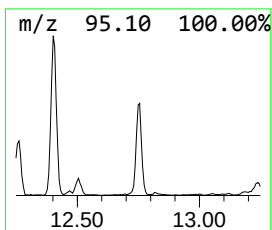
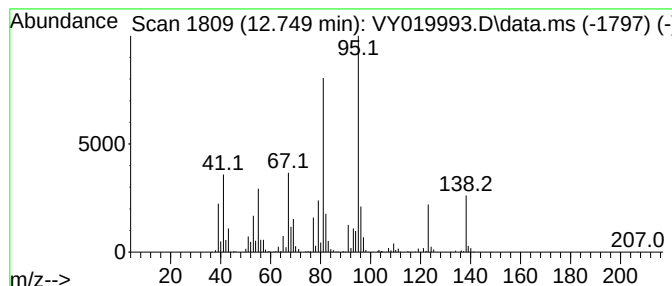
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Quant Title : SW846 8260

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

Peak Number 3 Cyclohexene, 4-methyl-1-(1-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.749	44.00 ug/l	653503	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000500-00-5	96
2			Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000619-52-3	93
3			Bicyclo[4.1.0]heptane, 3,7,7-tri...	138	C10H18	018968-23-5	90
4			Bicyclo[4.1.0]heptane, 3,7,7-tri...	138	C10H18	000554-59-6	81
5			Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	60



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

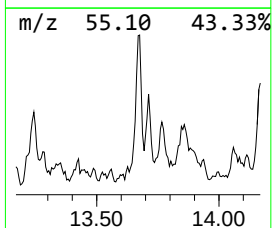
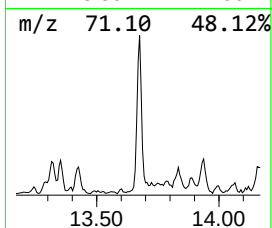
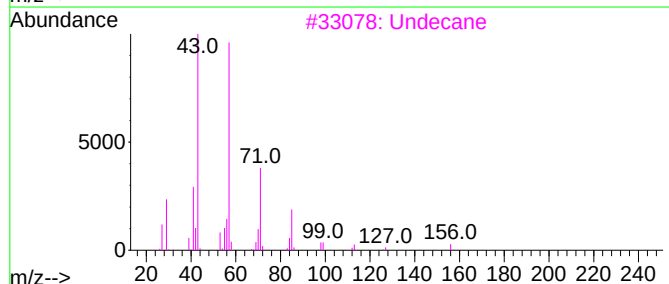
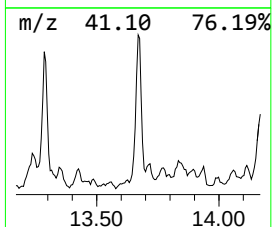
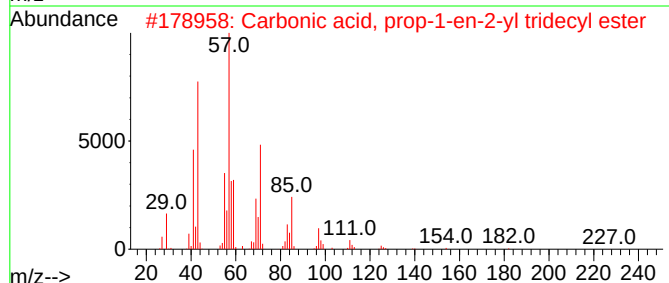
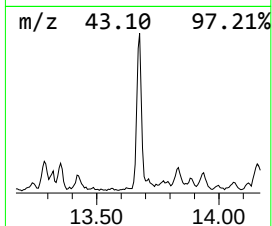
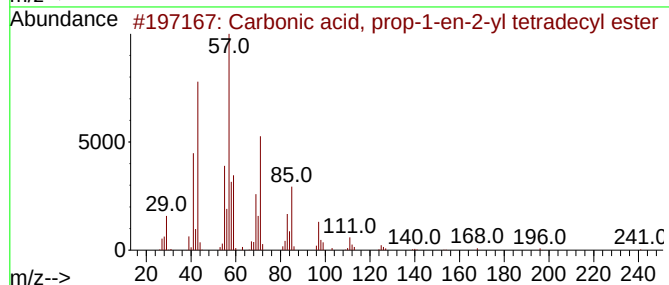
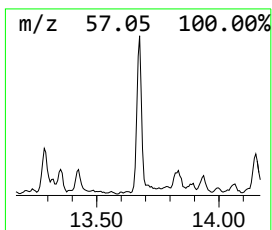
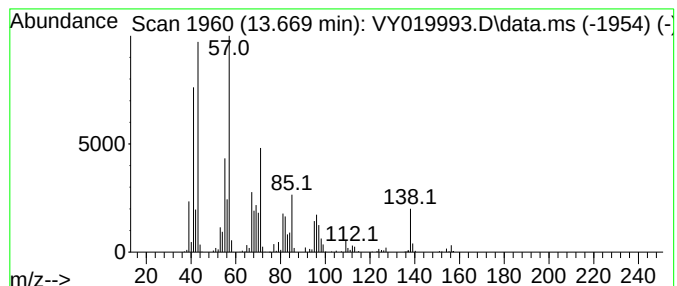
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Quant Title : SW846 8260

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

Peak Number 4 unknown13.669 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.669	42.75 ug/l	634912	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	46
2			Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	46
3			Undecane	156	C11H24	001120-21-4	45
4			Carbonic acid, nonyl prop-1-en-2...	228	C13H24O3	1000382-53-9	43
5			Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

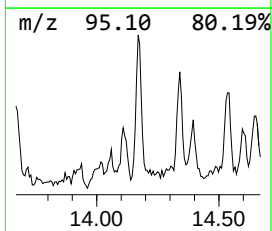
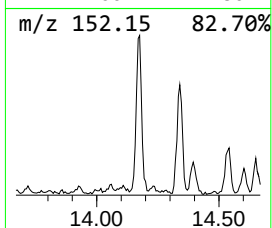
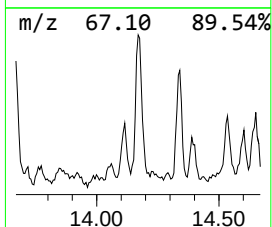
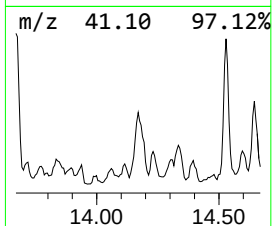
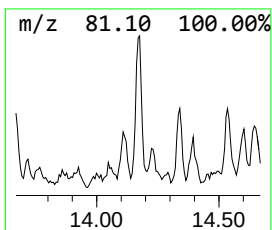
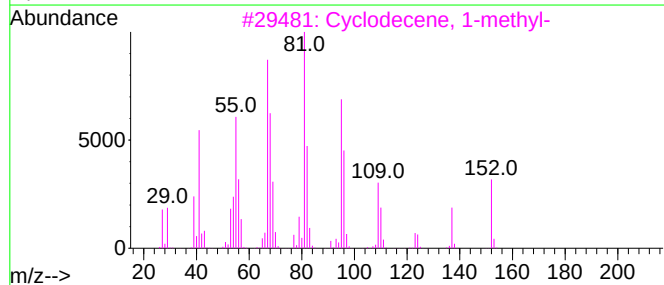
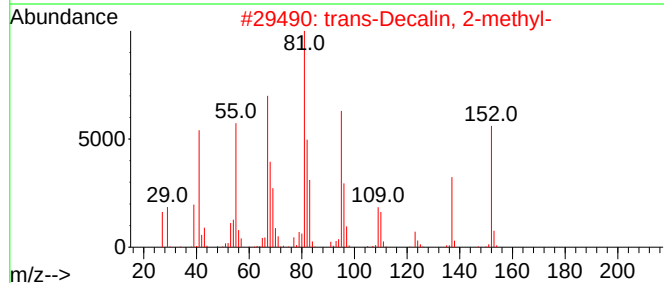
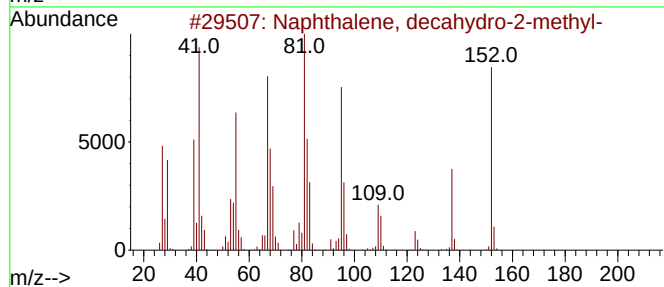
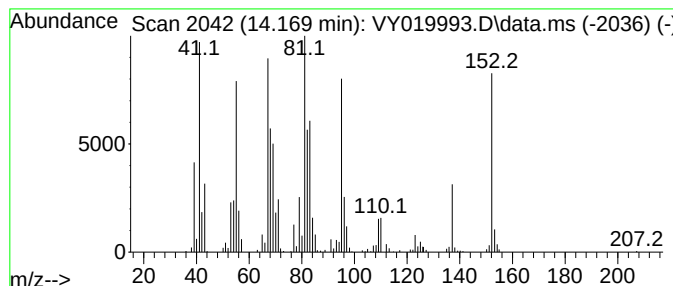
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Quant Title : SW846 8260

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

Peak Number 6 Naphthalene, decahydro-2-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	31.28 ug/l	464611	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	96
2			trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	94
3			Cyclodecene, 1-methyl-	152	C11H20	066633-38-3	83
4			Cyclohexanone, 2-methyl-5-(1-met...	152	C10H16O	005948-04-9	70
5			Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

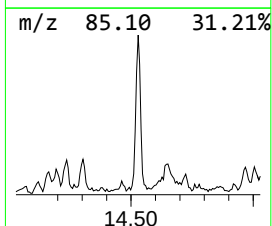
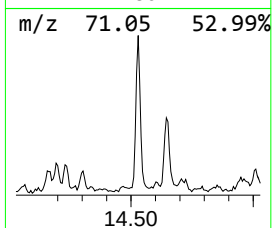
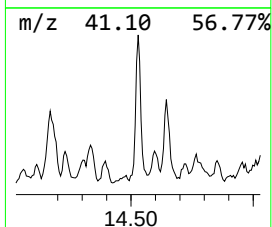
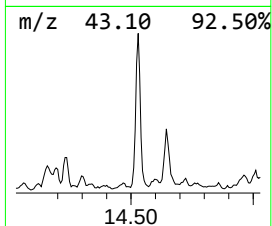
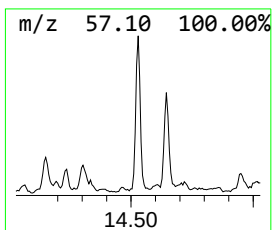
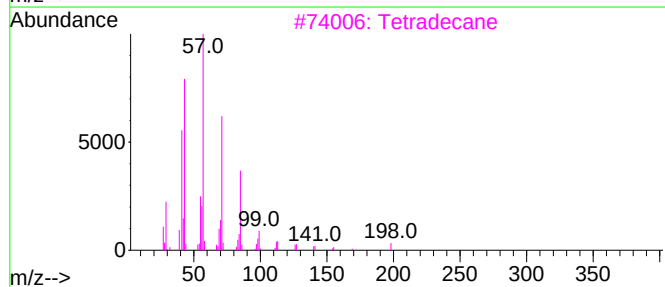
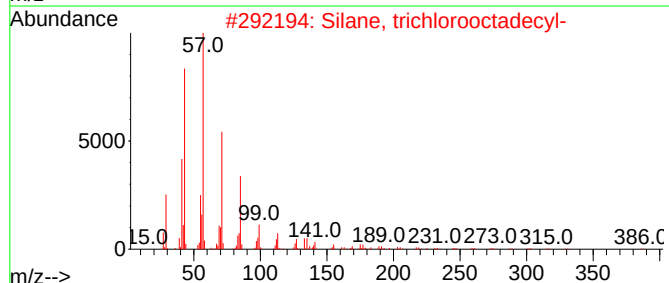
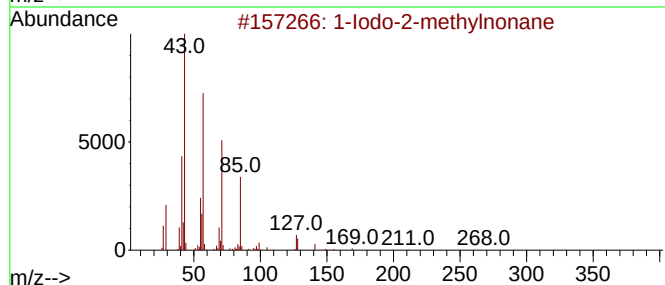
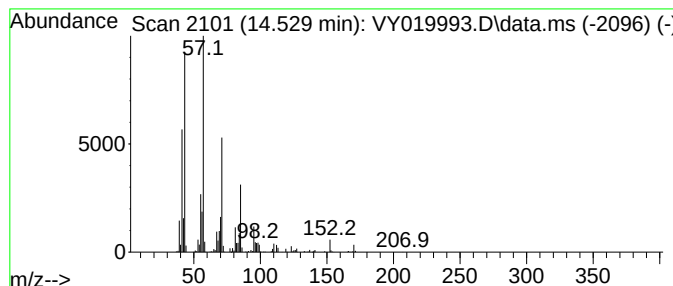
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Quant Title : SW846 8260

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

Peak Number 7 1-Iodo-2-methylnonane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	33.17 ug/l	492599	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	64
2			Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	64
3			Tetradecane	198	C14H30	000629-59-4	53
4			Decane, 2,3,7-trimethyl-	184	C13H28	062238-13-5	53
5			3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

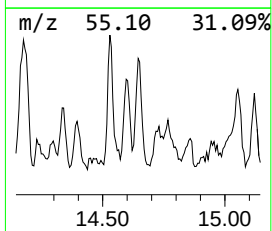
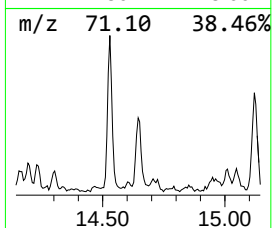
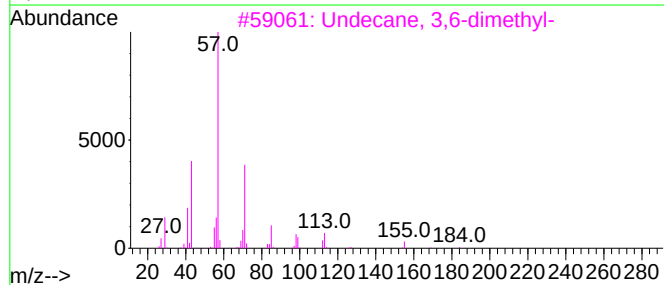
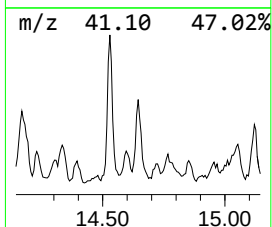
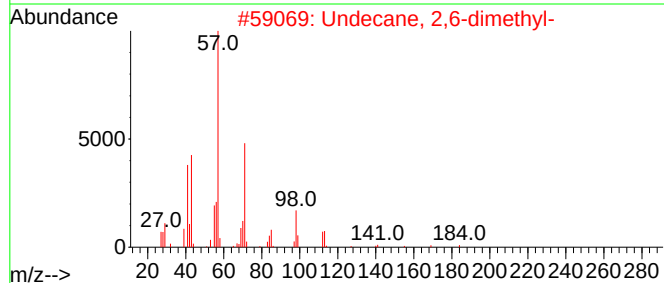
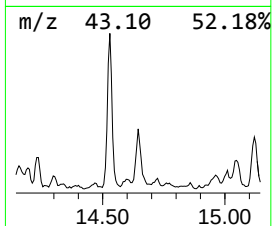
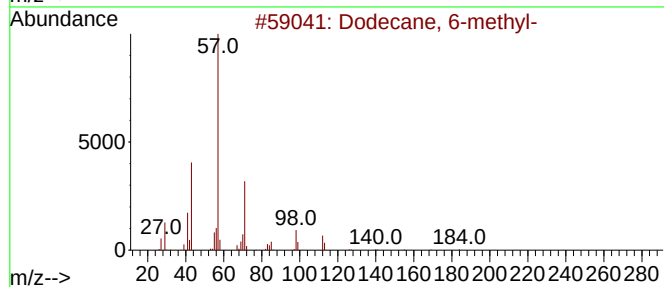
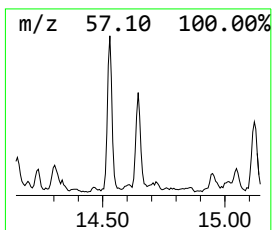
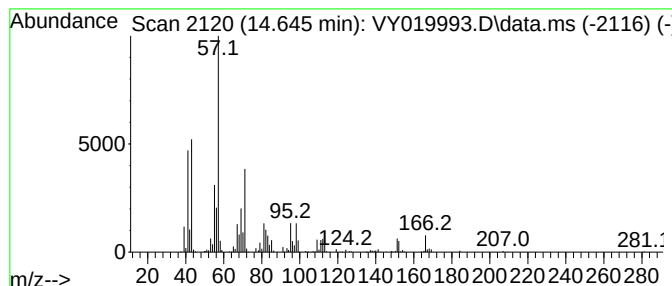
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 8 Dodecane, 6-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	24.28 ug/l	360662	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dodecane, 6-methyl-	184	C13H28	006044-71-9	91
2			Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	90
3			Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64
4			Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	58
5			Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

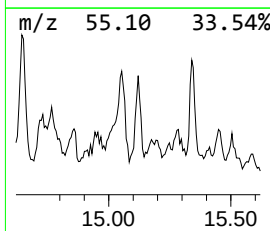
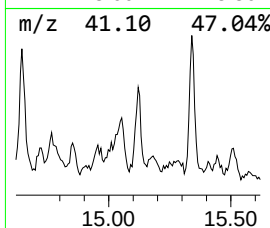
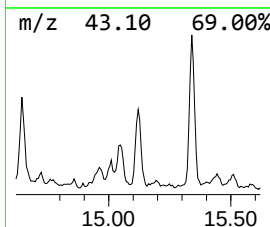
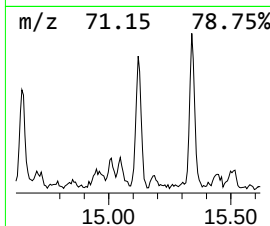
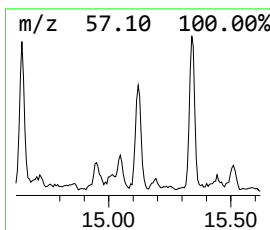
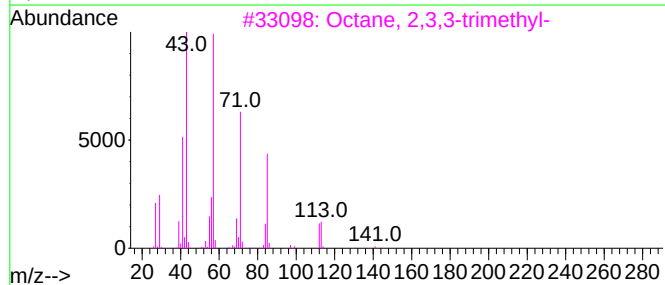
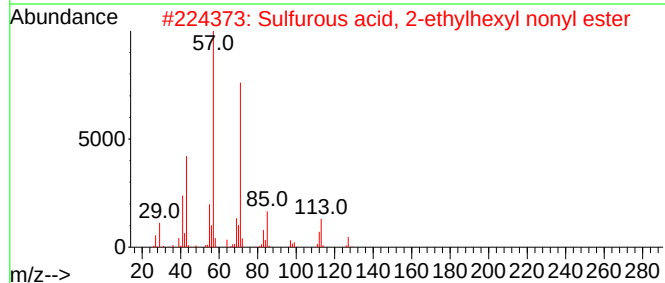
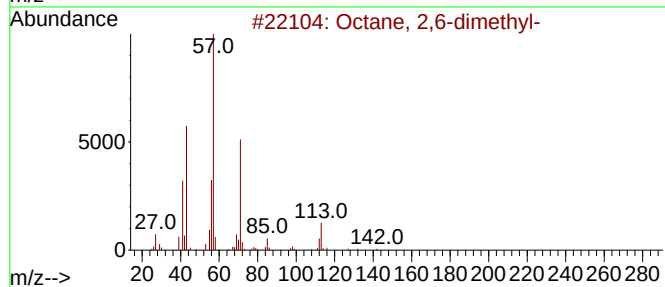
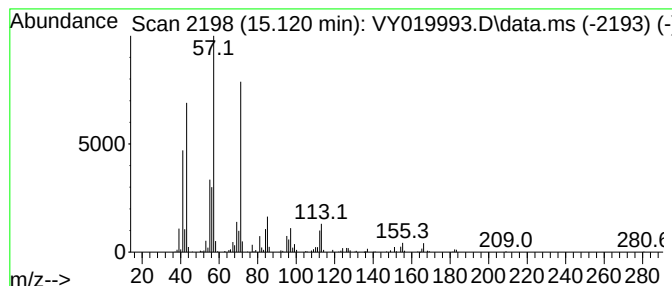
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 9 Octane, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.120	15.35 ug/l	228026	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	72
2			Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	72
3			Octane, 2,3,3-trimethyl-	156	C11H24	062016-30-2	72
4			Oxalic acid, 2-ethylhexyl nonyl ...	328	C19H36O4	1000309-39-2	64
5			Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

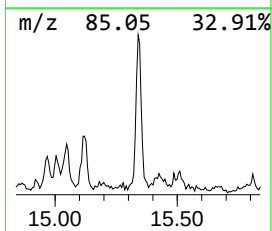
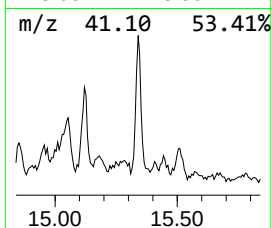
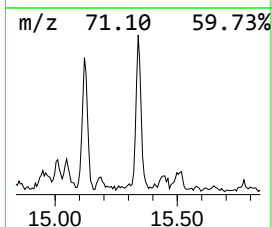
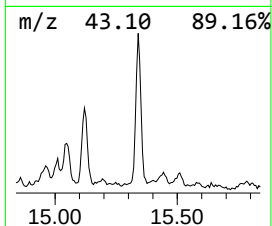
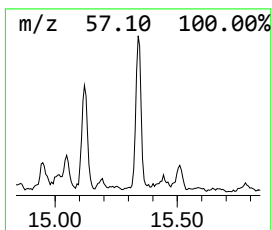
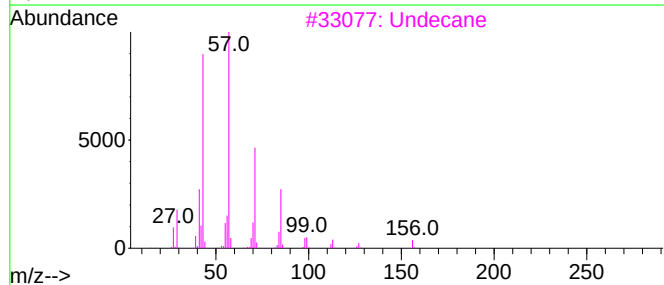
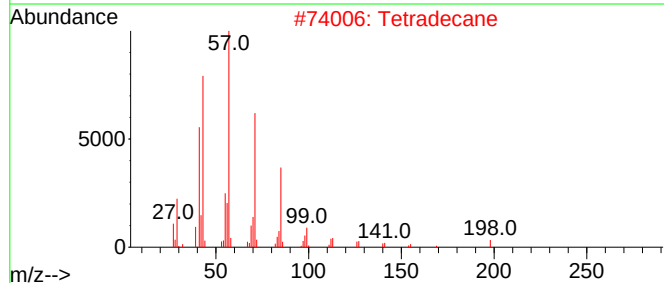
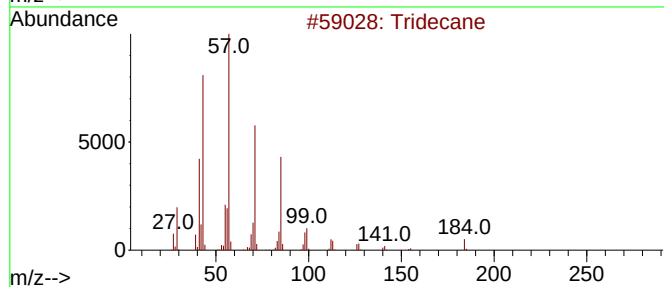
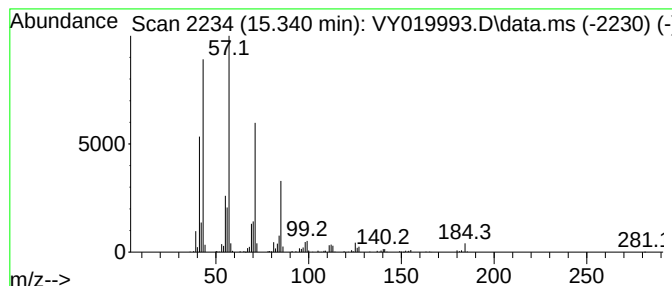
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Quant Title : SW846 8260

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

Peak Number 10 Tridecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.340	20.57 ug/l	305458	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tridecane	184	C13H28	000629-50-5	91
2			Tetradecane	198	C14H30	000629-59-4	86
3			Undecane	156	C11H24	001120-21-4	72
4			Hexadecane	226	C16H34	000544-76-3	64
5			Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Bicyclo[2.2.1]h...	12.468	23.9	ug/l	355476	4	13.346	742591	50.0
Camphene	12.505	32.4	ug/l	481328	4	13.346	742591	50.0
Cyclohexene, 4-...	12.749	44.0	ug/l	653503	4	13.346	742591	50.0
unknown13.669	13.669	42.8	ug/l	634912	4	13.346	742591	50.0
Naphthalene, de...	14.169	31.3	ug/l	464611	4	13.346	742591	50.0
1-Iodo-2-methyl...	14.529	33.2	ug/l	492599	4	13.346	742591	50.0
Dodecane, 6-met...	14.645	24.3	ug/l	360662	4	13.346	742591	50.0
Octane, 2,6-dim...	15.120	15.4	ug/l	228026	4	13.346	742591	50.0
Tridecane	15.340	20.6	ug/l	305458	4	13.346	742591	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TB100824	SDG No.:	P4471
Lab Sample ID:	P4471-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084444.D	1		10/21/24 18:28	VN102124

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/08/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/21/24	
Client Sample ID:	TB100824			SDG No.:	P4471	
Lab Sample ID:	P4471-03			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
VN084444.D	1		10/21/24 18:28	VN102124

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	49.5		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	245000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	92600	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TB100824	SDG No.:	P4471
Lab Sample ID:	P4471-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084444.D	1		10/21/24 18:28	VN102124

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\VN102124\
 Data File : VN084444.D
 Acq On : 21 Oct 2024 18:28
 Operator : JC\MD
 Sample : P4471-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB100824

Quant Time: Oct 22 01:39:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	164715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	283567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92567	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120791	49.460	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.920%
35) Dibromofluoromethane	8.165	113	98047	52.447	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.900%
50) Toluene-d8	10.565	98	344898	50.146	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.300%
62) 4-Bromofluorobenzene	12.847	95	112552	44.919	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	89.840%

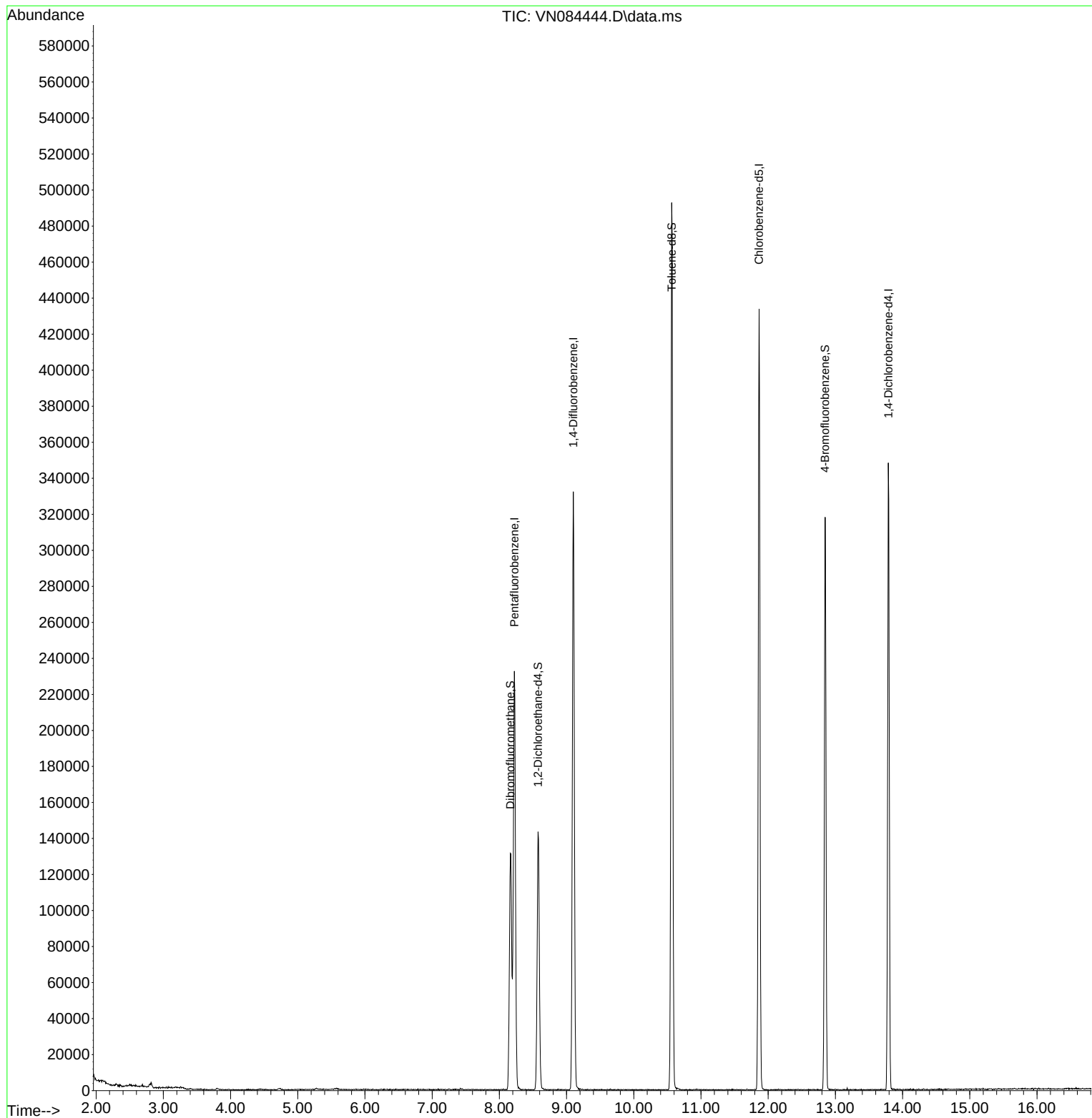
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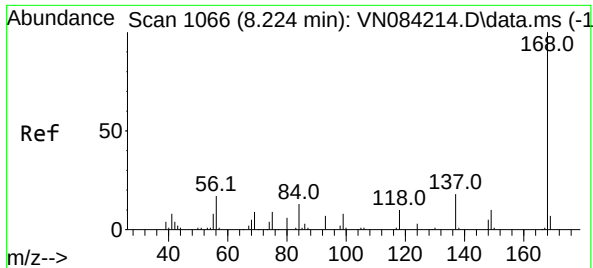
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

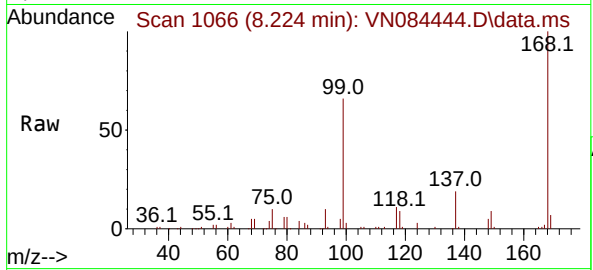
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



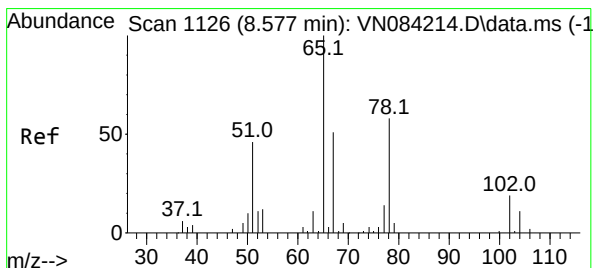
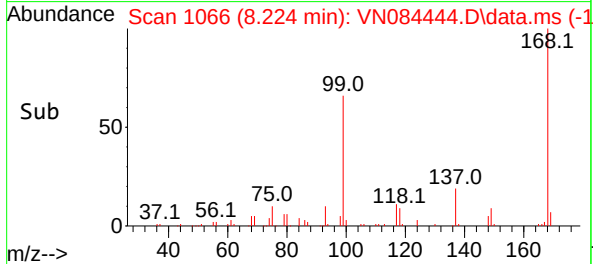
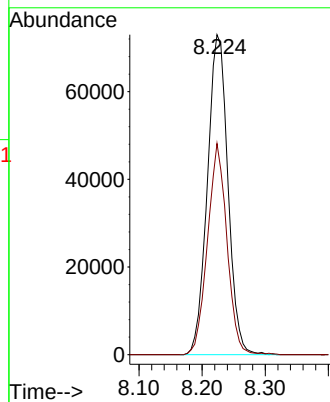


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :
TB100824

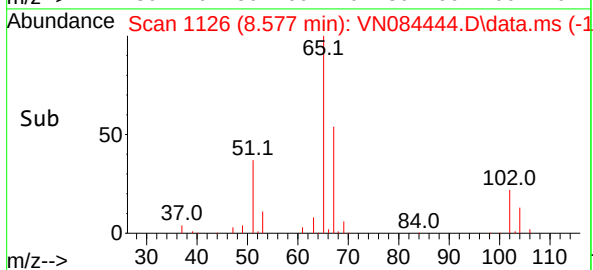
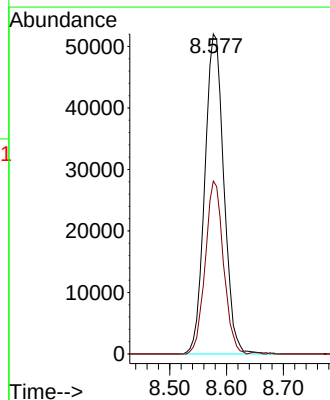
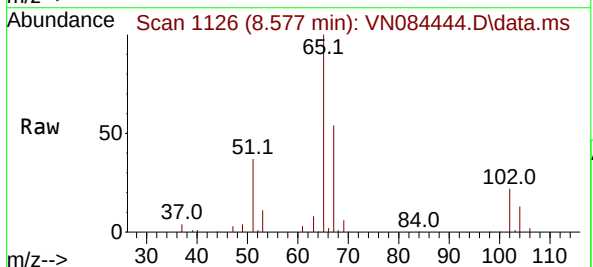


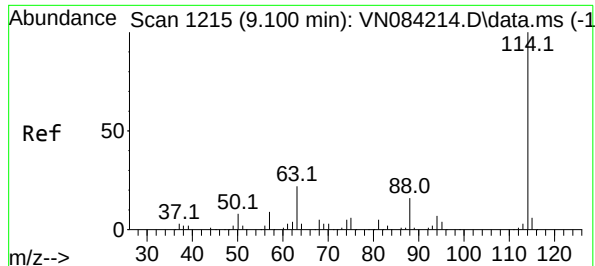
Tgt Ion:168 Resp: 164715
Ion Ratio Lower Upper
168 100
99 66.0 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 49.460 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion: 65 Resp: 120791
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN084444.D

Acq: 21 Oct 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

TB100824

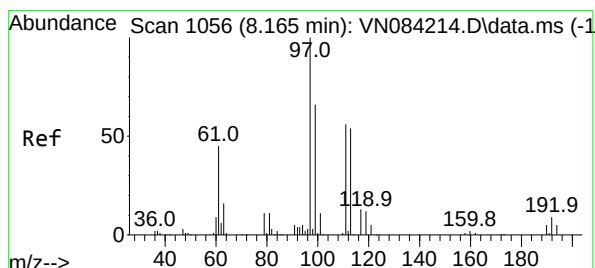
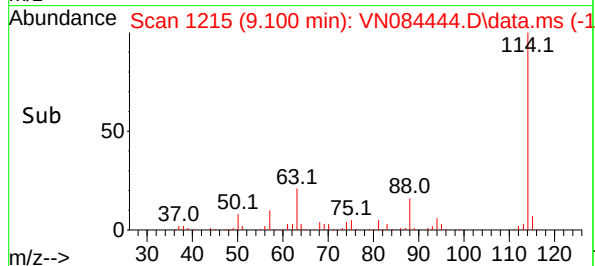
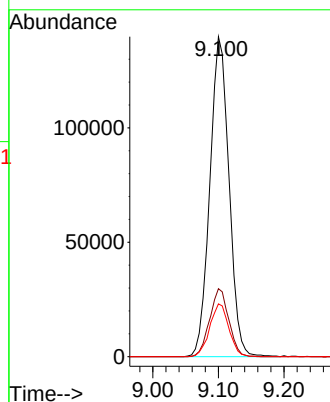
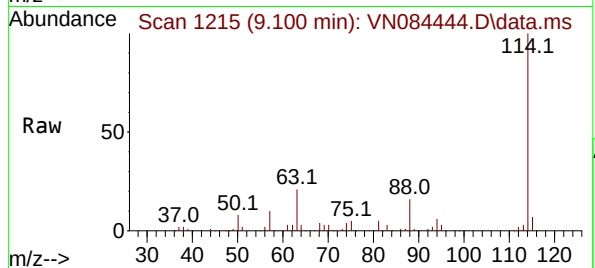
Tgt Ion:114 Resp: 283567

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.8

88 16.5 0.0 31.6



#35

Dibromofluoromethane

Concen: 52.447 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084444.D

Acq: 21 Oct 2024 18:28

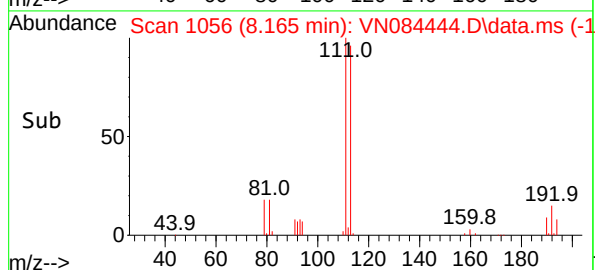
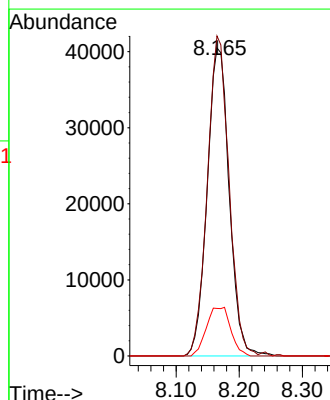
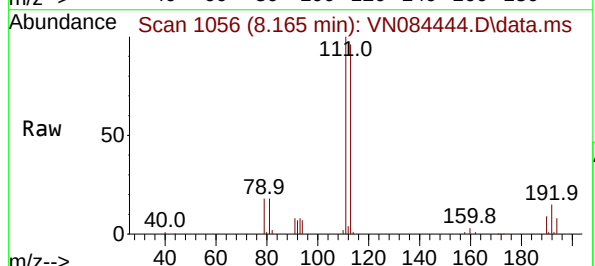
Tgt Ion:113 Resp: 98047

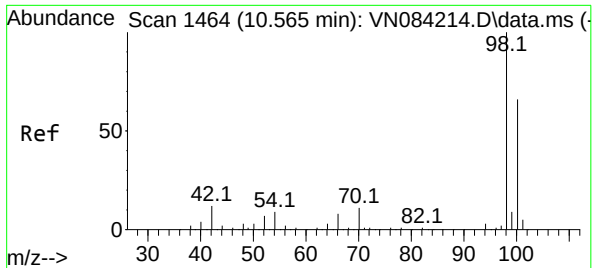
Ion Ratio Lower Upper

113 100

111 102.0 83.3 124.9

192 17.4 13.5 20.3

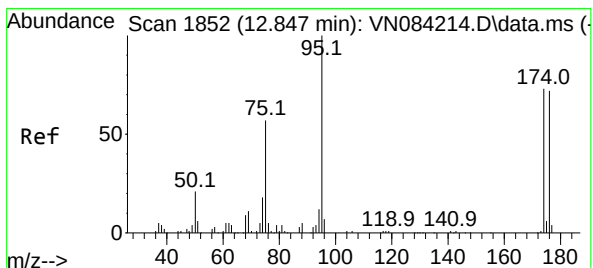
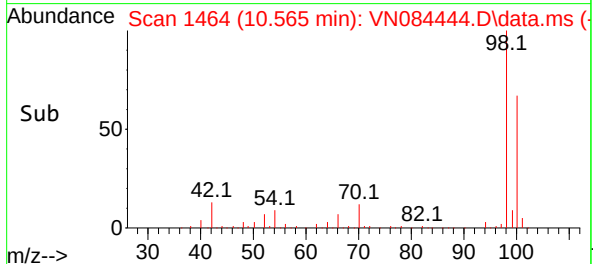
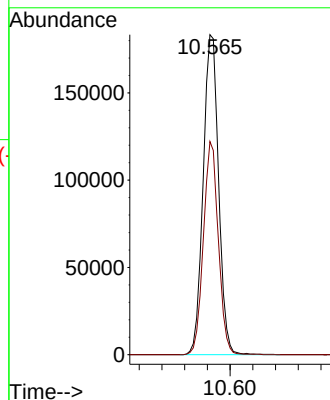
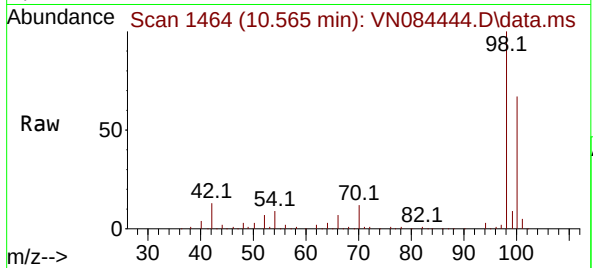




#50
Toluene-d8
Concen: 50.146 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

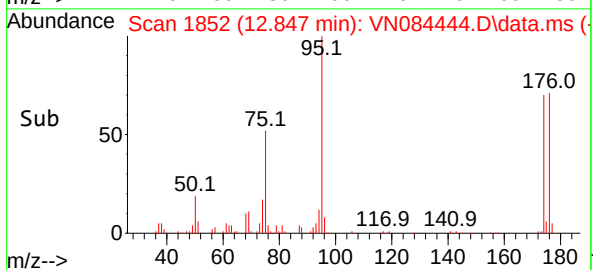
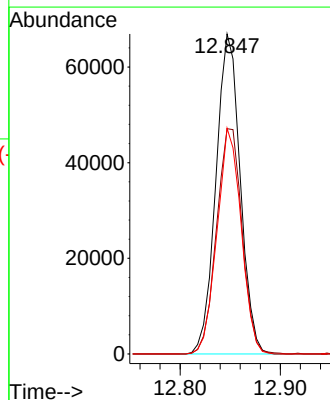
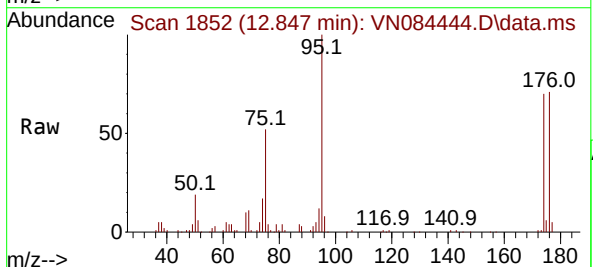
Instrument :
MSVOA_N
ClientSampleId :
TB100824

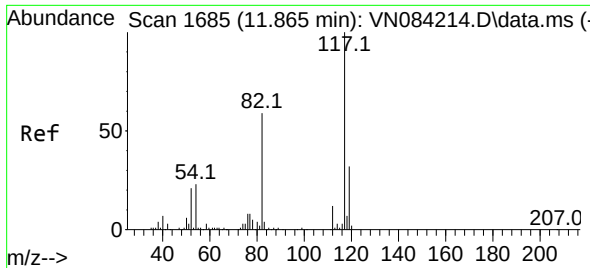
Tgt Ion: 98 Resp: 344898
Ion Ratio Lower Upper
98 100
100 64.4 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 44.919 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion: 95 Resp: 112552
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.2
176 70.0 0.0 140.0

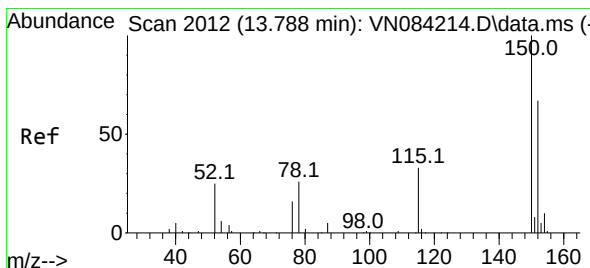
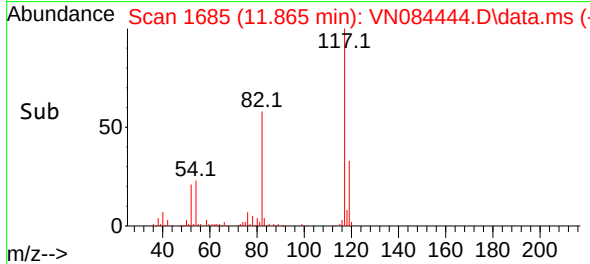
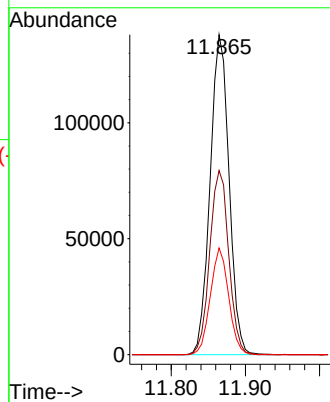
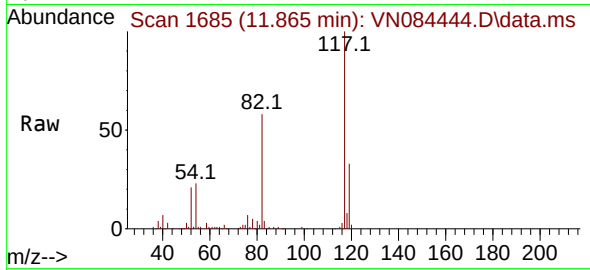




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

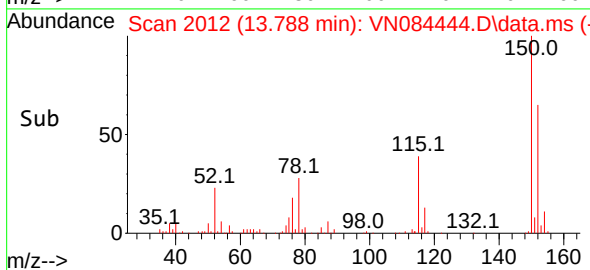
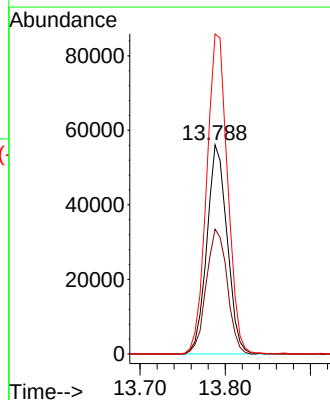
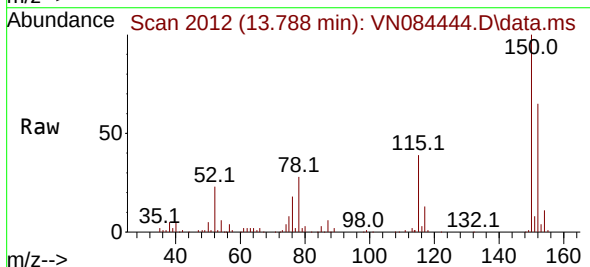
Instrument :
MSVOA_N
ClientSampleId :
TB100824

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.2	70.8
119	33.3	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: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.3	93.9
150	158.2	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

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\82N093024W.M

Title : SW846 8260

Signal : TIC: VN084444.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1047	1056	1061	rBV2	131297	324752	35.60%	7.036%
2	8.224	1061	1066	1076	rVB	231782	503367	55.17%	10.906%
3	8.577	1115	1126	1141	rBV	143424	328999	36.06%	7.128%
4	9.100	1205	1215	1228	rBV	332344	676827	74.19%	14.664%
5	10.565	1453	1464	1476	rBV	492702	912320	100.00%	19.766%
6	11.865	1676	1685	1695	rBV	433585	759689	83.27%	16.459%
7	12.847	1844	1852	1863	rVB	318112	532017	58.31%	11.527%
8	13.788	2005	2012	2020	rBV	348140	577611	63.31%	12.514%

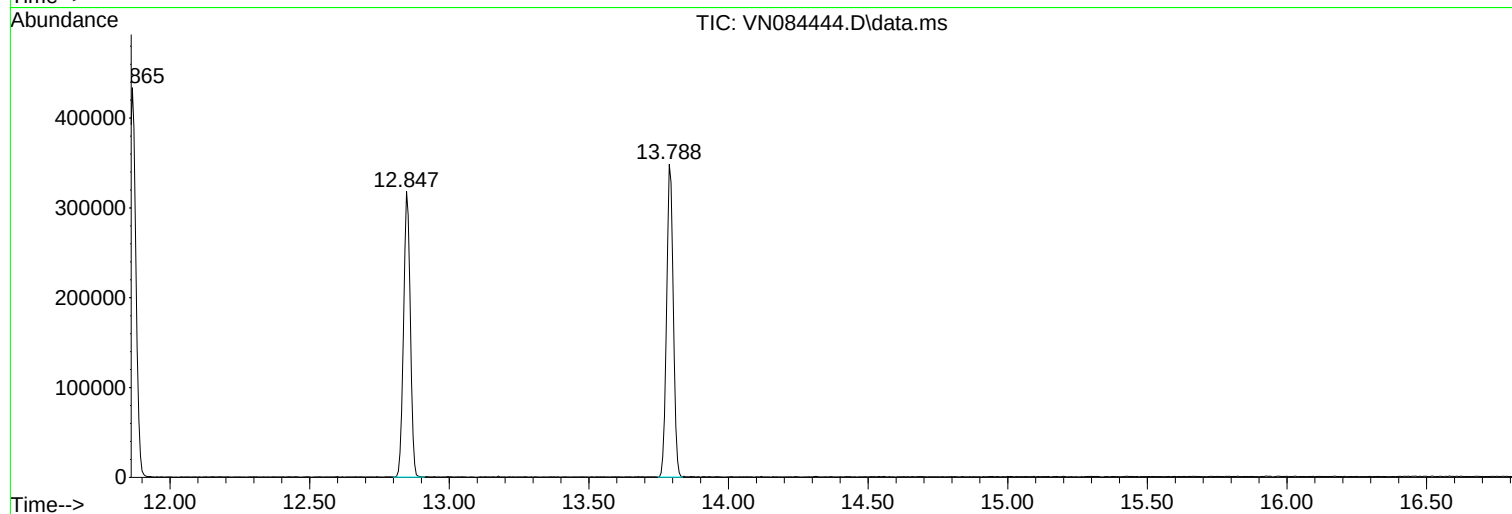
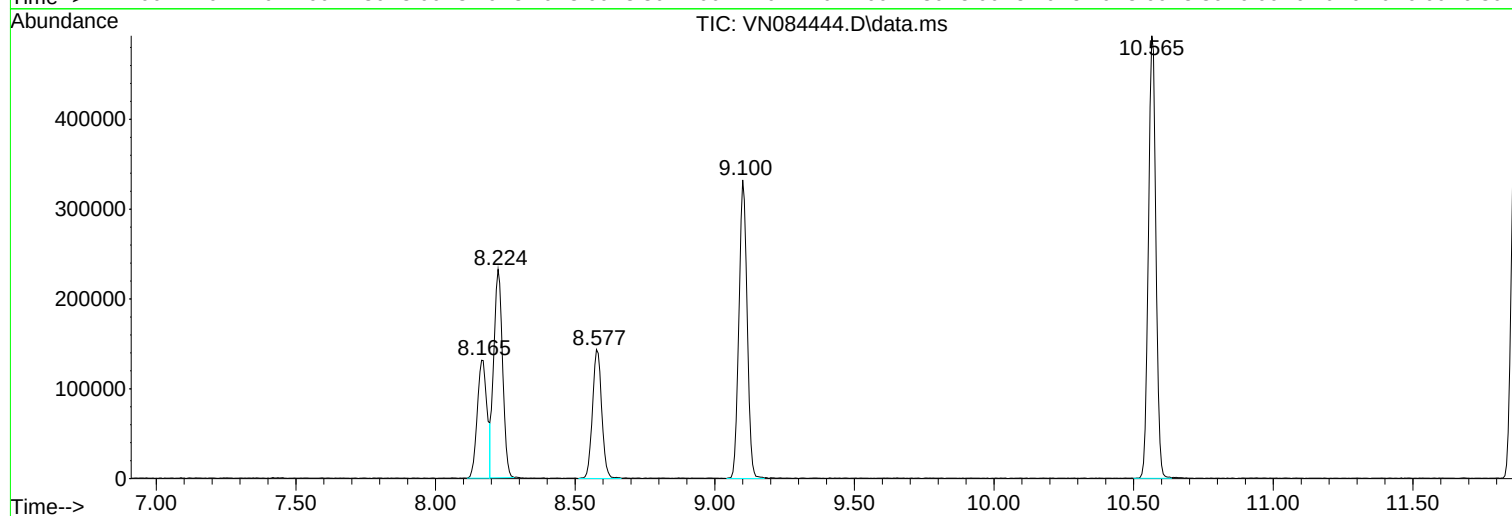
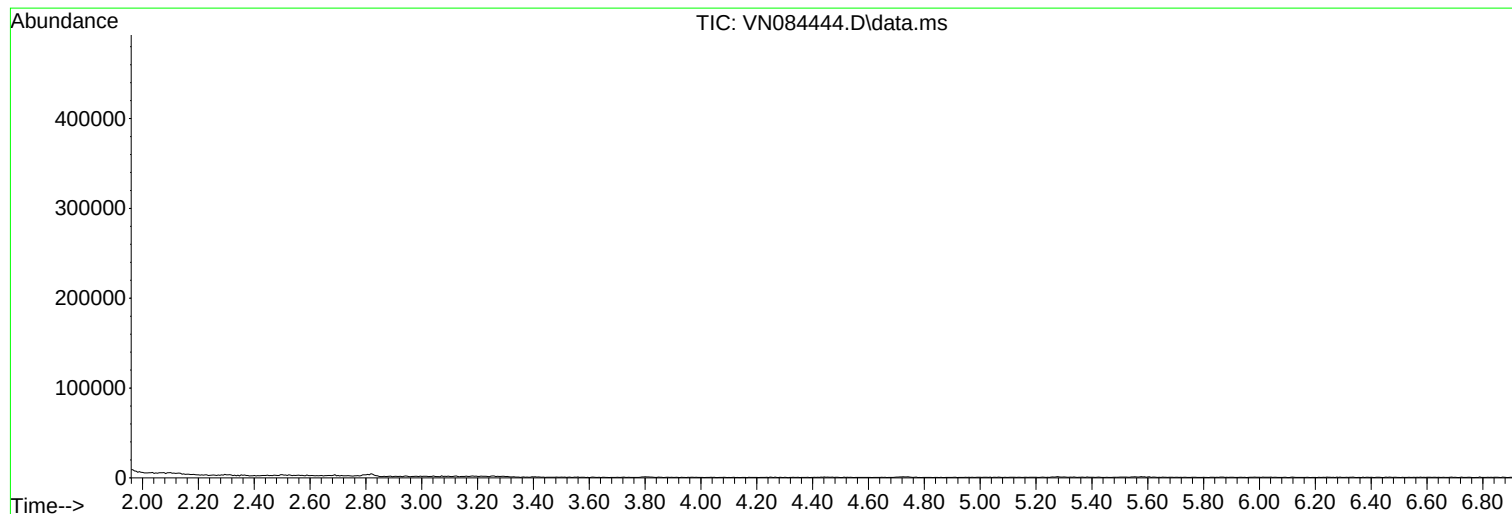
Sum of corrected areas: 4615582

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

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



CALIBRATION SUMMARY



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.: P4471 SAS No.: P4471 SDG No.: P4471
 Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024
 Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN084213.D		RRF050 = VN084214.D		RRF020 = VN084215.D			
		RRF010 = VN084216.D		RRF005 = VN084217.D		RRF001 = VN084218.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.567	0.613	0.600	0.562	0.607	0.600	0.591	3.7	
Chloromethane	0.619	0.671	0.677	0.648	0.747	0.690	0.675	6.4	
Vinyl Chloride	0.611	0.667	0.665	0.641	0.724	0.617	0.654	6.4	
Bromomethane	0.368	0.432	0.432	0.424	0.501		0.431	10.9	
Chloroethane	0.375	0.419	0.430	0.433	0.522	0.632	0.468	19.9	
Trichlorofluoromethane	0.953	1.060	1.047	0.959	1.113	0.978	1.019	6.4	
1,1,2-Trichlorotrifluoroethane	0.542	0.590	0.603	0.532	0.633	0.602	0.584	6.7	
1,1-Dichloroethene	0.538	0.587	0.596	0.533	0.631	0.493	0.563	8.9	
Acetone	0.299	0.342	0.337	0.298	0.336	0.299	0.318	6.8	
Carbon Disulfide	1.588	1.723	1.746	1.650	1.908	2.080	1.782	10.2	
Methyl tert-butyl Ether	1.825	2.033	2.035	1.802	2.049	1.656	1.900	8.6	
Methyl Acetate	0.607	0.707	0.694	0.691	0.765	0.700	0.694	7.3	
Methylene Chloride	0.594	0.655	0.661	0.618	0.669	0.686	0.647	5.3	
trans-1,2-Dichloroethene	0.555	0.622	0.619	0.570	0.627	0.546	0.590	6.2	
1,1-Dichloroethane	1.075	1.193	1.163	1.084	1.226	1.046	1.131	6.4	
Cyclohexane	0.970	1.068	1.084	1.047	1.321		1.098	12	
2-Butanone	0.395	0.452	0.465	0.419	0.467	0.404	0.434	7.3	
Carbon Tetrachloride	0.515	0.549	0.553	0.508	0.545	0.482	0.525	5.4	
cis-1,2-Dichloroethene	0.670	0.741	0.741	0.655	0.767	0.703	0.713	6.2	
Bromochloromethane	0.472	0.494	0.486	0.423	0.619	0.535	0.505	13.2	
Chloroform	1.083	1.204	1.205	1.117	1.259	1.181	1.175	5.5	
1,1,1-Trichloroethane	0.997	1.102	1.089	1.018	1.154	0.972	1.055	6.7	
Methylcyclohexane	0.567	0.583	0.577	0.507	0.534	0.428	0.533	11	
Benzene	1.434	1.553	1.559	1.410	1.574	1.421	1.492	5.2	
1,2-Dichloroethane	0.480	0.528	0.524	0.498	0.544	0.460	0.506	6.3	
Trichloroethene	0.334	0.362	0.361	0.329	0.379	0.325	0.348	6.3	
1,2-Dichloropropane	0.346	0.375	0.380	0.339	0.388	0.289	0.353	10.4	
Bromodichloromethane	0.521	0.557	0.556	0.497	0.570	0.475	0.529	7.2	
4-Methyl-2-Pentanone	0.449	0.508	0.510	0.468	0.484	0.387	0.468	9.9	
Toluene	0.904	0.970	0.963	0.861	0.920	0.840	0.910	5.8	

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



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.: P4471 SAS No.: P4471 SDG No.: P4471
 Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024
 Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN084213.D		RRF050 = VN084214.D		RRF020 = VN084215.D			
		RRF010 = VN084216.D		RRF005 = VN084217.D		RRF001 = VN084218.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
t-1,3-Dichloropropene	0.562	0.590	0.573	0.517	0.564	0.430	0.539	10.9	
cis-1,3-Dichloropropene	0.592	0.638	0.608	0.569	0.606	0.469	0.580	10.2	
1,1,2-Trichloroethane	0.317	0.349	0.347	0.316	0.340	0.288	0.326	7.3	
2-Hexanone	0.341	0.387	0.387	0.340	0.357	0.285	0.349	10.8	
Dibromochloromethane	0.384	0.418	0.409	0.374	0.396	0.330	0.385	8.1	
1,2-Dibromoethane	0.328	0.358	0.362	0.315	0.361	0.309	0.339	7.2	
Tetrachloroethene	0.323	0.359	0.351	0.338	0.373	0.346	0.348	5	
Chlorobenzene	1.068	1.170	1.143	1.069	1.173	1.028	1.109	5.5	
Ethyl Benzene	1.988	2.121	2.028	1.840	2.030	1.756	1.961	6.9	
m/p-Xylenes	0.741	0.806	0.779	0.695	0.729	0.600	0.725	10	
o-Xylene	0.714	0.774	0.738	0.666	0.734	0.491	0.686	14.9	
Styrene	1.234	1.312	1.238	1.112	1.159	0.918	1.162	11.9	
Bromoform	0.282	0.315	0.303	0.260	0.288	0.239	0.281	10	
Isopropylbenzene	3.737	4.132	4.055	3.677	3.864	3.428	3.815	6.8	
1,1,2,2-Tetrachloroethane	1.001	1.183	1.187	1.127	1.291	1.095	1.147	8.5	
1,3-Dichlorobenzene	1.624	1.787	1.780	1.646	1.843	1.679	1.727	5.1	
1,4-Dichlorobenzene	1.628	1.784	1.734	1.638	1.889	1.789	1.744	5.7	
1,2-Dichlorobenzene	1.555	1.710	1.740	1.613	1.769	1.770	1.693	5.3	
1,2-Dibromo-3-Chloropropane	0.209	0.238	0.253	0.242	0.271	0.207	0.237	10.4	
1,2,4-Trichlorobenzene	0.859	0.933	0.923	0.792	0.839	0.657	0.834	12.2	
1,2,3-Trichlorobenzene	0.816	0.896	0.903	0.820	0.822	0.751	0.835	6.8	
1,2-Dichloroethane-d4	0.673	0.737	0.764	0.712	0.821		0.741	7.5	
Dibromofluoromethane	0.308	0.324	0.341	0.316	0.359		0.330	6.1	
Toluene-d8	1.189	1.243	1.242	1.148	1.242		1.213	3.5	
4-Bromofluorobenzene	0.447	0.452	0.449	0.406	0.456		0.442	4.6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N093024W.M
 Title : SW846 8260
 Last Update : Tue Oct 01 07:11:01 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN084218.D 5 =VN084217.D 10 =VN084216.D 20 =VN084215.D 50 =VN084214.D 100 =VN084213.

D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.600	0.607	0.562	0.600	0.613	0.567	0.591	3.67
3) P	Chloromethane	0.690	0.747	0.648	0.677	0.671	0.619	0.675	6.39
4) C	Vinyl Chloride	0.617	0.724	0.641	0.665	0.667	0.611	0.654	6.37#
5) T	Bromomethane	0.501	0.424	0.432	0.432	0.368	0.431	0.431	10.93
6) T	Chloroethane	0.632	0.522	0.433	0.430	0.419	0.375	0.468	19.90
7) T	Trichlorofluor...	0.978	1.113	0.959	1.047	1.060	0.953	1.019	6.36
8) T	Diethyl Ether	0.363	0.398	0.352	0.408	0.390	0.355	0.378	6.36
9) T	1,1,2-Trichlor...	0.602	0.633	0.532	0.603	0.590	0.542	0.584	6.68
10) T	Methyl Iodide	0.764	0.688	0.769	0.806	0.731	0.752	0.752	5.87
11) T	Tert butyl alc...	0.143	0.116	0.128	0.123	0.101	0.122	0.122	12.49
12) CM	1,1-Dichloroet...	0.493	0.631	0.533	0.596	0.587	0.538	0.563	8.94#
13) T	Acrolein	0.162	0.130	0.135	0.142	0.131	0.140	0.140	9.47
14) T	Allyl chloride	0.888	1.097	0.896	1.086	0.995	0.905	0.978	9.85
15) T	Acrylonitrile	0.306	0.329	0.300	0.324	0.316	0.277	0.309	6.10
16) T	Acetone	0.299	0.336	0.298	0.337	0.342	0.299	0.318	6.80
17) T	Carbon Disulfide	2.080	1.908	1.650	1.746	1.723	1.588	1.782	10.18
18) T	Methyl Acetate	0.700	0.765	0.691	0.694	0.707	0.607	0.694	7.27
19) T	Methyl tert-bu...	1.656	2.049	1.802	2.035	2.033	1.825	1.900	8.57
20) T	Methylene Chlo...	0.686	0.669	0.618	0.661	0.655	0.594	0.647	5.29
21) T	trans-1,2-Dich...	0.546	0.627	0.570	0.619	0.622	0.555	0.590	6.21
22) T	Diisopropyl ether	1.756	2.207	1.900	2.170	2.164	1.938	2.022	9.10
23) T	Vinyl Acetate	1.196	1.585	1.411	1.655	1.648	1.505	1.500	11.67
24) P	1,1-Dichloroet...	1.046	1.226	1.084	1.163	1.193	1.075	1.131	6.43
25) T	2-Butanone	0.404	0.467	0.419	0.465	0.452	0.395	0.434	7.35
26) T	2,2-Dichloropr...	0.904	1.086	0.983	1.078	1.082	0.985	1.020	7.31
27) T	cis-1,2-Dichlo...	0.703	0.767	0.655	0.741	0.741	0.670	0.713	6.19
28) T	Bromochloromet...	0.535	0.619	0.423	0.486	0.494	0.472	0.505	13.20
29) T	Tetrahydrofuran	0.249	0.290	0.266	0.281	0.283	0.236	0.268	8.01
30) C	Chloroform	1.181	1.259	1.116	1.205	1.204	1.083	1.175	5.49#
31) T	Cyclohexane	1.321	1.047	1.084	1.068	0.970	1.098	1.098	12.01
32) T	1,1,1-Trichlor...	0.972	1.154	1.018	1.089	1.102	0.997	1.055	6.68
33) S	1,2-Dichloroet...	0.821	0.712	0.764	0.737	0.673	0.741	0.741	7.51
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.359	0.316	0.341	0.324	0.308	0.330	0.330	6.14
36) T	1,1-Dichloropr...	0.417	0.504	0.468	0.501	0.509	0.474	0.479	7.25
37) T	Ethyl Acetate	0.447	0.560	0.488	0.496	0.503	0.452	0.491	8.34
38) T	Carbon Tetrach...	0.482	0.545	0.508	0.553	0.549	0.515	0.525	5.41
39) T	Methylcyclohexane	0.428	0.534	0.507	0.577	0.583	0.567	0.533	11.04
40) TM	Benzene	1.421	1.574	1.410	1.559	1.553	1.434	1.492	5.18
41) T	Methacrylonitrile	0.257	0.273	0.251	0.284	0.287	0.247	0.267	6.50
42) TM	1,2-Dichloroet...	0.460	0.544	0.498	0.524	0.528	0.480	0.506	6.32
43) T	Isopropyl Acetate	1.312	0.973	0.857	0.930	0.898	0.804	0.962	18.82
44) TM	Trichloroethene	0.325	0.379	0.329	0.361	0.362	0.334	0.348	6.32
45) C	1,2-Dichloropr...	0.289	0.388	0.339	0.380	0.375	0.346	0.353	10.44#
46) T	Dibromomethane	0.197	0.250	0.226	0.258	0.260	0.238	0.238	9.99
47) T	Bromodichlorom...	0.475	0.570	0.497	0.556	0.557	0.521	0.529	7.17
48) T	Methyl methacr...	0.314	0.408	0.371	0.411	0.418	0.376	0.383	10.14
49) T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.007	0.006	0.007	5.48
50) S	Toluene-d8	1.242	1.148	1.242	1.243	1.189	1.213	1.213	3.54
51) T	4-Methyl-2-Pen...	0.387	0.484	0.468	0.510	0.508	0.449	0.468	9.88
52) CM	Toluene	0.840	0.920	0.861	0.963	0.970	0.904	0.910	5.79#
53) T	t-1,3-Dichloro...	0.430	0.564	0.517	0.573	0.590	0.562	0.539	10.92
54) T	cis-1,3-Dichlo...	0.469	0.606	0.569	0.608	0.638	0.592	0.580	10.18
55) T	1,1,2-Trichlor...	0.288	0.340	0.316	0.347	0.349	0.317	0.326	7.33

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\

Method File : 82N093024W.M

56)	T	Ethyl methacry...	0.414	0.548	0.513	0.587	0.602	0.556	0.537	12.63
57)	T	1,3-Dichloropr...	0.533	0.623	0.551	0.618	0.616	0.555	0.583	6.95
58)	T	2-Chloroethyl ...	0.213	0.267	0.233	0.232	0.280	0.268	0.249	10.63
59)	T	2-Hexanone	0.285	0.357	0.340	0.387	0.387	0.341	0.349	10.80
60)	T	Dibromochlorom...	0.330	0.396	0.374	0.409	0.418	0.384	0.385	8.12
61)	T	1,2-Dibromoethane	0.309	0.361	0.315	0.362	0.358	0.328	0.339	7.18
62)	S	4-Bromofluorob...	0.456	0.406	0.449	0.452	0.447	0.442		4.62
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.346	0.373	0.338	0.351	0.359	0.323	0.348	4.98
65)	PM	Chlorobenzene	1.028	1.173	1.069	1.143	1.170	1.068	1.109	5.52
66)	T	1,1,1,2-Tetrac...	0.334	0.409	0.366	0.409	0.404	0.369	0.382	8.01
67)	C	Ethyl Benzene	1.756	2.030	1.840	2.028	2.121	1.988	1.961	6.94#
68)	T	m/p-Xylenes	0.600	0.729	0.695	0.779	0.806	0.741	0.725	10.00
69)	T	o-Xylene	0.491	0.734	0.666	0.738	0.774	0.714	0.686	14.87
70)	T	Styrene	0.918	1.159	1.112	1.238	1.312	1.234	1.162	11.87
71)	P	Bromoform	0.239	0.288	0.260	0.303	0.315	0.282	0.281	9.98
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.428	3.864	3.677	4.055	4.132	3.737	3.815	6.78
74)	T	N-amyl acetate	1.583	1.758	1.705	1.827	1.857	1.636	1.728	6.20
75)	P	1,1,2,2-Tetrac...	1.095	1.291	1.127	1.187	1.183	1.001	1.147	8.52
76)	T	1,2,3-Trichlor...	0.895	1.251	0.999	1.003	1.125	0.851	1.021	14.47
77)	T	Bromobenzene	0.891	0.982	0.896	0.955	0.947	0.851	0.920	5.33
78)	T	n-propylbenzene	3.455	4.544	4.401	4.719	4.906	4.498	4.421	11.44
79)	T	2-Chlorotoluene	2.640	2.948	2.737	2.891	3.013	2.696	2.821	5.34
80)	T	1,3,5-Trimethy...	2.369	3.209	3.077	3.358	3.491	3.170	3.112	12.62
81)	T	trans-1,4-Dich...	0.408	0.428	0.435	0.451	0.407	0.426		4.34
82)	T	4-Chlorotoluene	2.537	2.968	2.777	2.962	3.029	2.765	2.840	6.46
83)	T	tert-Butylbenzene	2.407	2.844	2.681	2.891	3.027	2.748	2.766	7.68
84)	T	1,2,4-Trimethy...	2.334	3.209	3.102	3.449	3.522	3.195	3.135	13.53
85)	T	sec-Butylbenzene	2.842	3.641	3.715	4.021	4.143	3.787	3.691	12.39
86)	T	p-Isopropyltol...	2.204	3.030	2.995	3.361	3.509	3.215	3.052	15.04
87)	T	1,3-Dichlorobe...	1.679	1.843	1.646	1.780	1.787	1.624	1.727	5.13
88)	T	1,4-Dichlorobe...	1.789	1.889	1.638	1.734	1.784	1.628	1.744	5.71
89)	T	n-Butylbenzene	2.386	2.689	2.567	2.961	3.092	2.912	2.768	9.63
90)	T	Hexachloroethane	0.564	0.678	0.608	0.637	0.639	0.590	0.620	6.51
91)	T	1,2-Dichlorobe...	1.770	1.769	1.613	1.740	1.710	1.555	1.693	5.28
92)	T	1,2-Dibromo-3-...	0.207	0.271	0.242	0.253	0.238	0.209	0.237	10.44
93)	T	1,2,4-Trichlor...	0.657	0.839	0.792	0.923	0.933	0.859	0.834	12.15
94)	T	Hexachlorobuta...	0.422	0.460	0.401	0.445	0.397	0.370	0.416	7.98
95)	T	Naphthalene	2.467	2.702	2.657	2.935	3.079	2.747	2.764	7.79
96)	T	1,2,3-Trichlor...	0.751	0.822	0.820	0.903	0.896	0.816	0.835	6.83

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084213.D
 Acq On : 30 Sep 2024 12:25
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	192402	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324582	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142880	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	259018	90.797	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	181.600%#
35) Dibromofluoromethane	8.165	113	200166	93.542	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	187.080%#
50) Toluene-d8	10.565	98	772146	98.079	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	196.160%#
62) 4-Bromofluorobenzene	12.847	95	289867	101.065	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	202.140%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	218015	95.796	ug/l	94
3) Chloromethane	2.359	50	238104	91.628	ug/l	98
4) Vinyl Chloride	2.512	62	234942	93.338	ug/l	99
5) Bromomethane	2.936	94	141604	85.288	ug/l	94
6) Chloroethane	3.112	64	144394	80.099	ug/l	92
7) Trichlorofluoromethane	3.495	101	366907	93.608	ug/l	98
8) Diethyl Ether	3.953	74	136436	93.854	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	208443	92.811	ug/l	99
10) Methyl Iodide	4.589	142	281269	97.248	ug/l	97
11) Tert butyl alcohol	5.518	59	194750	414.018	ug/l	99
12) 1,1-Dichloroethene	4.336	96	206863	95.491	ug/l	95
13) Acrolein	4.177	56	251811	466.304	ug/l	99
14) Allyl chloride	5.018	41	348108	92.526	ug/l	99
15) Acrylonitrile	5.712	53	533270	448.931	ug/l	99
16) Acetone	4.424	43	576139	470.138	ug/l	99
17) Carbon Disulfide	4.712	76	611042	89.090	ug/l	100
18) Methyl Acetate	5.018	43	233708	87.499	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	702366	96.061	ug/l	99
20) Methylene Chloride	5.277	84	228706	91.809	ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	213704	94.160	ug/l	94
22) Diisopropyl ether	6.671	45	745614	95.811	ug/l	98
23) Vinyl Acetate	6.600	43	2895429	498.979	ug/l	99
24) 1,1-Dichloroethane	6.565	63	413523	95.021	ug/l	99
25) 2-Butanone	7.483	43	759354	454.946	ug/l	100
26) 2,2-Dichloropropane	7.488	77	378893	96.560	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	257696	93.962	ug/l	99
28) Bromochloromethane	7.812	49	181546	93.497	ug/l	100
29) Tetrahydrofuran	7.836	42	453342	440.124	ug/l	99
30) Chloroform	7.965	83	416595	92.156	ug/l	100
31) Cyclohexane	8.253	56	373445	88.380	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	383566	94.476	ug/l	98
36) 1,1-Dichloropropene	8.371	75	307616	98.969	ug/l	99
37) Ethyl Acetate	7.559	43	293597	92.073	ug/l	100
38) Carbon Tetrachloride	8.359	117	334398	98.077	ug/l	98
39) Methylcyclohexane	9.600	83	368299	106.466	ug/l	99
40) Benzene	8.606	78	931076	96.145	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084213.D
 Acq On : 30 Sep 2024 12:25
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/01/2024
 Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	160270	92.581	ug/l	97
42) 1,2-Dichloroethane	8.671	62	311563	94.900	ug/l	100
43) Isopropyl Acetate	8.688	43	521814	83.581	ug/l	100
44) Trichloroethene	9.347	130	216678	95.798	ug/l	97
45) 1,2-Dichloropropane	9.618	63	224724	98.095	ug/l	97
46) Dibromomethane	9.706	93	154739	100.091	ug/l	99
47) Bromodichloromethane	9.888	83	338406	98.526	ug/l	99
48) Methyl methacrylate	9.677	41	244061	98.163	ug/l	99
49) 1,4-Dioxane	9.694	88	82854	1810.110	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	1456154	479.699	ug/l	100
52) Toluene	10.629	92	586544	99.324	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	365099	104.280	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	384030	101.975	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	205711	97.170	ug/l	97
56) Ethyl methacrylate	10.871	69	360916	103.608	ug/l	99
57) 1,3-Dichloropropane	11.165	76	360601	95.326	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	870416	538.640	ug/l	99
59) 2-Hexanone	11.194	43	1105736	487.363	ug/l	99
60) Dibromochloromethane	11.359	129	249435	99.721	ug/l	98
61) 1,2-Dibromoethane	11.465	107	212705	96.694	ug/l	100
64) Tetrachloroethene	11.100	164	186069	92.608	ug/l	99
65) Chlorobenzene	11.888	112	616423	96.376	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	212695	96.546	ug/l	99
67) Ethyl Benzene	11.959	91	1146786	101.385	ug/l	98
68) m/p-Xylenes	12.071	106	855381	204.437	ug/l	100
69) o-Xylene	12.394	106	412098	104.101	ug/l	99
70) Styrene	12.412	104	711855	106.165	ug/l	99
71) Bromoform	12.576	173	162862	100.412	ug/l #	97
73) Isopropylbenzene	12.694	105	1067798	97.936	ug/l	100
74) N-amyl acetate	12.494	43	467641	94.716	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	286161	87.285	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	243293m	85.433	ug/l	
77) Bromobenzene	12.982	156	243075	92.425	ug/l	100
78) n-propylbenzene	13.035	91	1285399	101.754	ug/l	99
79) 2-Chlorotoluene	13.123	91	770341	95.567	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	905999	101.869	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	116289	95.579	ug/l	98
82) 4-Chlorotoluene	13.218	91	790045	97.362	ug/l	100
83) tert-Butylbenzene	13.435	119	785331	99.349	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	913037	101.908	ug/l	99
85) sec-Butylbenzene	13.612	105	1082055	102.580	ug/l	100
86) p-Isopropyltoluene	13.729	119	918730	105.328	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	463998	94.046	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	465087	93.346	ug/l	99
89) n-Butylbenzene	14.053	91	832034	105.197	ug/l	99
90) Hexachloroethane	14.329	117	168712	95.289	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	444319	91.843	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	59837	88.446	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	245477	103.017	ug/l	99
94) Hexachlorobutadiene	15.500	225	105801	89.034	ug/l	98
95) Naphthalene	15.635	128	784876	99.356	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	233126	97.736	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

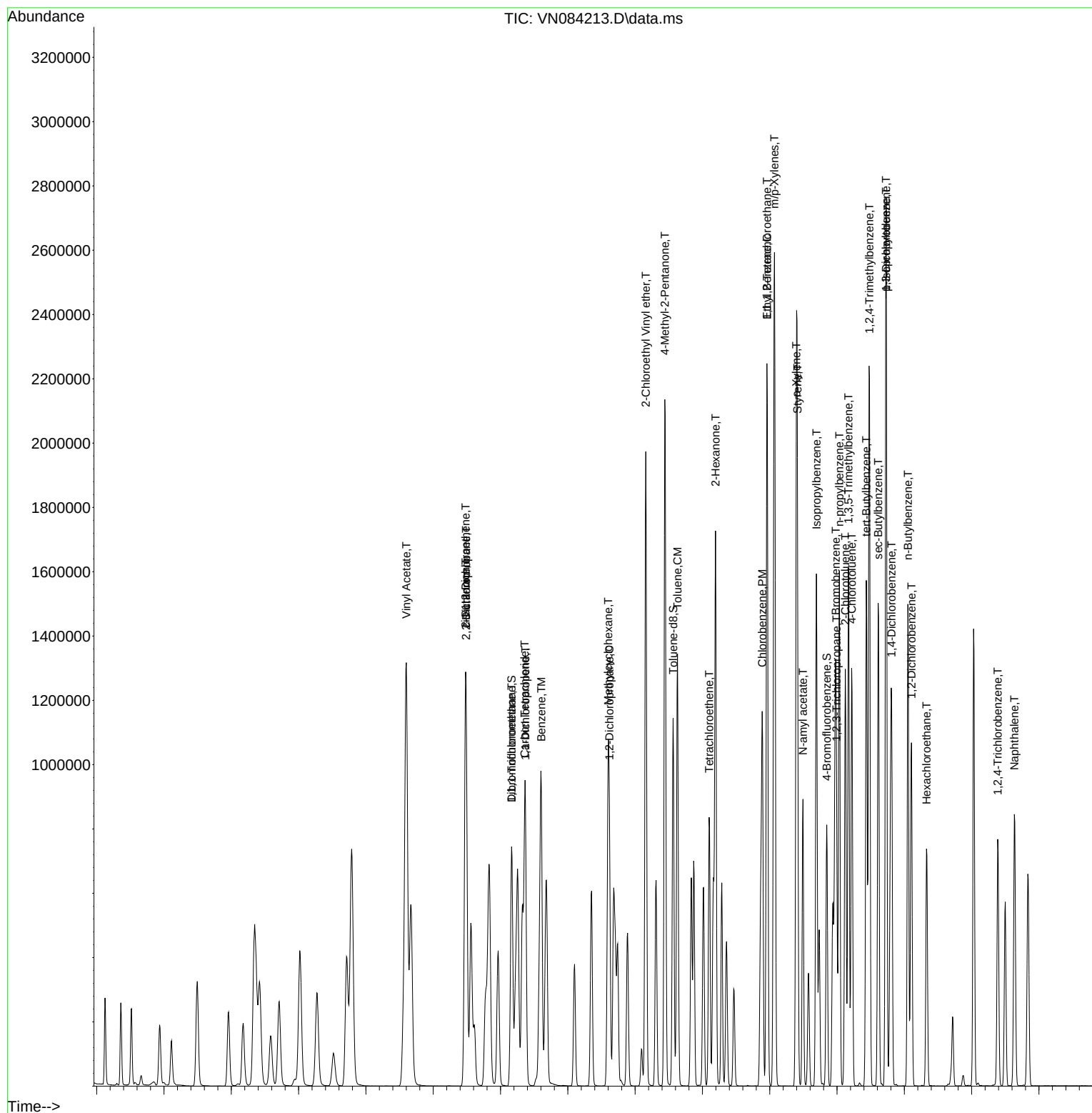
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084214.D
 Acq On : 30 Sep 2024 12:49
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	175379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	264820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127701	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129300	49.725	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.440%		
35) Dibromofluoromethane	8.165	113	98531	49.143	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.280%		
50) Toluene-d8	10.565	98	377886	51.228	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.460%		
62) 4-Bromofluorobenzene	12.847	95	137388	51.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.240%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	107530	51.835	ug/l	100
3) Chloromethane	2.359	50	117689	49.686	ug/l	100
4) Vinyl Chloride	2.518	62	117031	51.007	ug/l	100
5) Bromomethane	2.953	94	75848	50.118	ug/l	100
6) Chloroethane	3.118	64	73440	44.693	ug/l	100
7) Trichlorofluoromethane	3.495	101	185982	52.055	ug/l	100
8) Diethyl Ether	3.959	74	68385	51.608	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	103552	50.583	ug/l	100
10) Methyl Iodide	4.595	142	141310	53.600	ug/l	100
11) Tert butyl alcohol	5.524	59	107986	251.850	ug/l	100
12) 1,1-Dichloroethene	4.342	96	102934	52.128	ug/l	100
13) Acrolein	4.177	56	124940	253.821	ug/l	100
14) Allyl chloride	5.024	41	174518	50.889	ug/l	100
15) Acrylonitrile	5.718	53	277346	256.145	ug/l	100
16) Acetone	4.424	43	299515	268.132	ug/l	100
17) Carbon Disulfide	4.712	76	302183	48.335	ug/l	100
18) Methyl Acetate	5.018	43	124007	50.934	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	356478	53.487	ug/l	100
20) Methylene Chloride	5.277	84	114918	50.609	ug/l	100
21) trans-1,2-Dichloroethene	5.789	96	109048	52.711	ug/l	100
22) Diisopropyl ether	6.671	45	379516	53.501	ug/l	100
23) Vinyl Acetate	6.600	43	1444909	273.176	ug/l	100
24) 1,1-Dichloroethane	6.571	63	209222	52.742	ug/l	100
25) 2-Butanone	7.483	43	396369	260.524	ug/l	100
26) 2,2-Dichloropropane	7.488	77	189745	53.050	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	129873	51.951	ug/l	100
28) Bromochloromethane	7.812	49	86584	48.919	ug/l	100
29) Tetrahydrofuran	7.835	42	248328	264.488	ug/l	100
30) Chloroform	7.965	83	211178	51.249	ug/l	100
31) Cyclohexane	8.253	56	187282	48.624	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	193315	52.237	ug/l	100
36) 1,1-Dichloropropene	8.371	75	154855	53.172	ug/l	100
37) Ethyl Acetate	7.559	43	153024	51.216	ug/l	100
38) Carbon Tetrachloride	8.359	117	167086	52.301	ug/l	100
39) Methylcyclohexane	9.600	83	177433	54.741	ug/l	100
40) Benzene	8.606	78	472170	52.037	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084214.D
 Acq On : 30 Sep 2024 12:49
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	87365	53.861	ug/l	100
42) 1,2-Dichloroethane	8.671	62	160606	52.210	ug/l	100
43) Isopropyl Acetate	8.688	43	272992	46.667	ug/l	100
44) Trichloroethene	9.347	130	110119	51.961	ug/l	100
45) 1,2-Dichloropropane	9.618	63	114143	53.176	ug/l	100
46) Dibromomethane	9.706	93	79007	54.542	ug/l	100
47) Bromodichloromethane	9.888	83	169263	52.595	ug/l	100
48) Methyl methacrylate	9.677	41	127042	54.534	ug/l	100
49) 1,4-Dioxane	9.694	88	44512	1037.858	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	772927	271.750	ug/l	100
52) Toluene	10.629	92	295099	53.332	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	179453	54.703	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	193952	54.966	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	106288	53.583	ug/l	100
56) Ethyl methacrylate	10.871	69	183059	56.085	ug/l	100
57) 1,3-Dichloropropane	11.159	76	187372	52.864	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	426364	281.593	ug/l	100
59) 2-Hexanone	11.194	43	588361	276.767	ug/l	100
60) Dibromochloromethane	11.359	129	126992	54.184	ug/l	100
61) 1,2-Dibromoethane	11.465	107	108817	52.794	ug/l	100
64) Tetrachloroethene	11.100	164	94966	51.486	ug/l	100
65) Chlorobenzene	11.888	112	309849	52.770	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	106981	52.897	ug/l	100
67) Ethyl Benzene	11.959	91	561770	54.100	ug/l	100
68) m/p-Xylenes	12.071	106	427131	111.201	ug/l	100
69) o-Xylene	12.394	106	204854	56.370	ug/l	100
70) Styrene	12.412	104	347383	56.434	ug/l	100
71) Bromoform	12.576	173	83487	56.070	ug/l #	100
73) Isopropylbenzene	12.694	105	527625	54.145	ug/l	100
74) N-ethyl acetate	12.494	43	237131	53.738	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	151079	51.560	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	143676m	56.449	ug/l	
77) Bromobenzene	12.982	156	120918	51.442	ug/l	100
78) n-propylbenzene	13.035	91	626503	55.490	ug/l	100
79) 2-Chlorotoluene	13.123	91	384795	53.411	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	445807	56.084	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57572	52.943	ug/l	100
82) 4-Chlorotoluene	13.217	91	386854	53.341	ug/l	100
83) tert-Butylbenzene	13.435	119	386532	54.711	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	449720	56.161	ug/l	100
85) sec-Butylbenzene	13.617	105	529076	56.119	ug/l	100
86) p-Isopropyltoluene	13.729	119	448148	57.485	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	228219	51.755	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	227835	51.163	ug/l	100
89) n-Butylbenzene	14.053	91	394831	55.854	ug/l	100
90) Hexachloroethane	14.329	117	81626	51.582	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	218378	50.506	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30379	50.241	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	119164	55.953	ug/l	100
94) Hexachlorobutadiene	15.500	225	50680	47.718	ug/l	100
95) Naphthalene	15.635	128	393177	55.688	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	114483	53.701	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

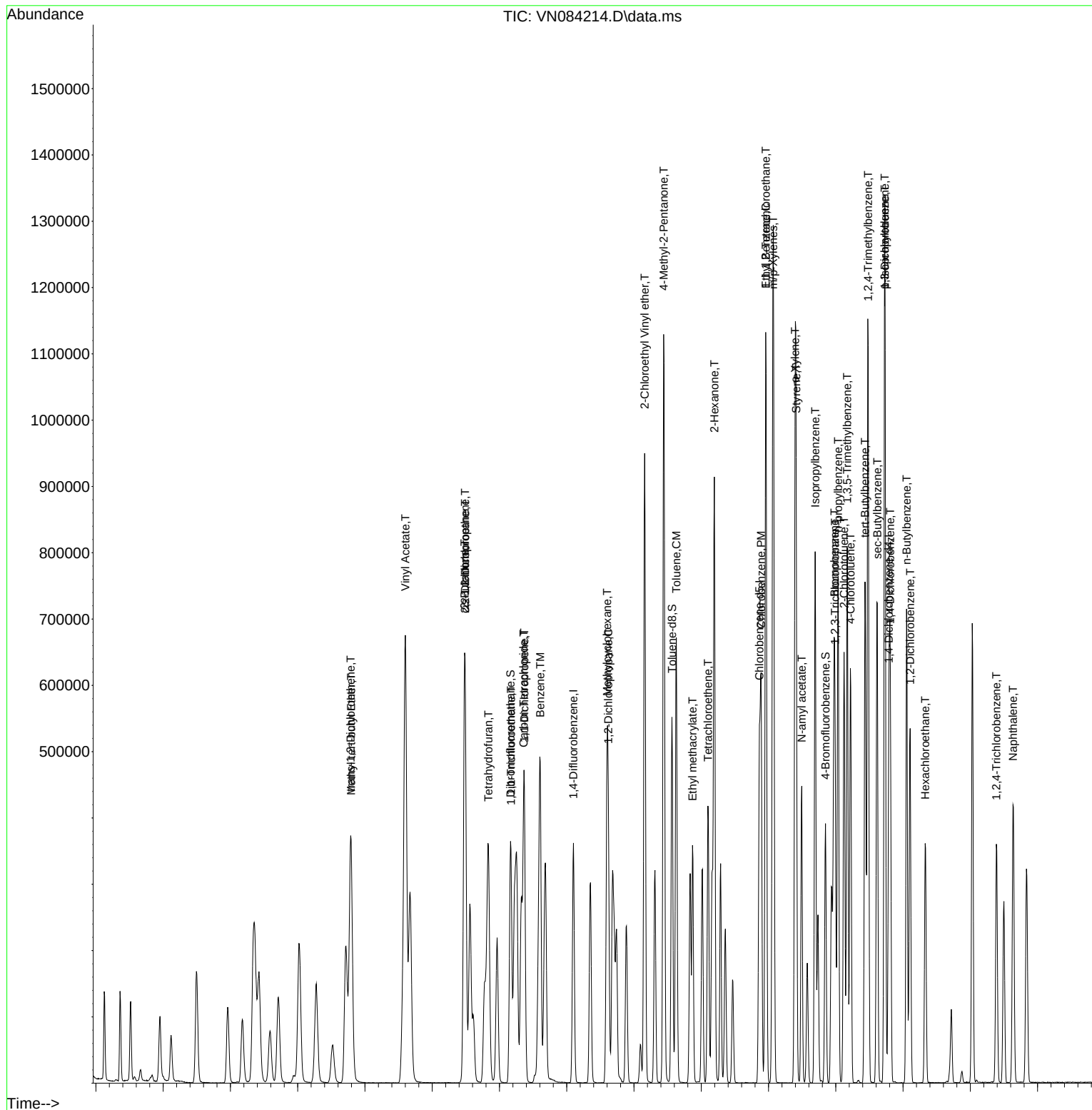
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084215.D
 Acq On : 30 Sep 2024 13:13
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/01/2024

Supervised By :Mahesh

Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M

Quant Title : SW846 8260

QLast Update : Tue Oct 01 06:46:32 2024

Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	178087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307298	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270754	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127763	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	54409	20.606	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	41.220%#
35) Dibromofluoromethane	8.171	113	41903	20.684	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	41.360%#
50) Toluene-d8	10.565	98	152668	20.483	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	40.960%#
62) 4-Bromofluorobenzene	12.847	95	55201	20.329	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	40.660%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	42709	20.275	ug/l	94
3) Chloromethane	2.359	50	48218	20.047	ug/l	99
4) Vinyl Chloride	2.518	62	47375	20.334	ug/l	96
5) Bromomethane	2.942	94	30751	20.010	ug/l	97
6) Chloroethane	3.118	64	30650	18.369	ug/l	96
7) Trichlorofluoromethane	3.495	101	74579	20.557	ug/l	95
8) Diethyl Ether	3.959	74	29090	21.619	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	42958	20.665	ug/l	99
10) Methyl Iodide	4.589	142	54769	20.458	ug/l	97
11) Tert butyl alcohol	5.518	59	45501	104.506	ug/l	98
12) 1,1-Dichloroethene	4.336	96	42450	21.171	ug/l	95
13) Acrolein	4.183	56	48261	96.553	ug/l	98
14) Allyl chloride	5.024	41	77338	22.208	ug/l	92
15) Acrylonitrile	5.718	53	115451	105.004	ug/l	99
16) Acetone	4.430	43	119948	105.747	ug/l	98
17) Carbon Disulfide	4.706	76	124366	19.590	ug/l	99
18) Methyl Acetate	5.030	43	49436	19.996	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	144972	21.421	ug/l	100
20) Methylene Chloride	5.271	84	47091	20.423	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	44064	20.976	ug/l	92
22) Diisopropyl ether	6.671	45	154575	21.460	ug/l	98
23) Vinyl Acetate	6.600	43	589404	109.739	ug/l	99
24) 1,1-Dichloroethane	6.565	63	82821	20.561	ug/l	98
25) 2-Butanone	7.482	43	165762	107.295	ug/l	100
26) 2,2-Dichloropropane	7.494	77	76824	21.152	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	52758	20.783	ug/l	99
28) Bromochloromethane	7.812	49	34591	19.246	ug/l	99
29) Tetrahydrofuran	7.835	42	100146	105.041	ug/l	99
30) Chloroform	7.965	83	85848	20.517	ug/l	99
31) Cyclohexane	8.253	56	77216	19.743	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	77552	20.637	ug/l	97
36) 1,1-Dichloropropene	8.371	75	61556	20.918	ug/l	99
37) Ethyl Acetate	7.559	43	61023	20.213	ug/l	99
38) Carbon Tetrachloride	8.359	117	67913	21.039	ug/l	95
39) Methylcyclohexane	9.600	83	70956	21.665	ug/l	99
40) Benzene	8.606	78	191581	20.896	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084215.D
 Acq On : 30 Sep 2024 13:13
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/01/2024
 Supervised By :Mahesh
 Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	34943	21.320	ug/l	99
42) 1,2-Dichloroethane	8.671	62	64453	20.736	ug/l	99
43) Isopropyl Acetate	8.688	43	114278	19.334	ug/l	99
44) Trichloroethene	9.347	130	44412	20.740	ug/l	98
45) 1,2-Dichloropropane	9.618	63	46651	21.509	ug/l	100
46) Dibromomethane	9.706	93	31672	21.639	ug/l	97
47) Bromodichloromethane	9.888	83	68343	21.017	ug/l	96
48) Methyl methacrylate	9.682	41	50498	21.453	ug/l	98
49) 1,4-Dioxane	9.700	88	18411	424.848	ug/l #	93
51) 4-Methyl-2-Pentanone	10.441	43	313636	109.132	ug/l	99
52) Toluene	10.629	92	118412	21.179	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	70403	21.240	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	74778	20.973	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	42631	21.270	ug/l	98
56) Ethyl methacrylate	10.871	69	72159	21.880	ug/l	99
57) 1,3-Dichloropropane	11.159	76	75915	21.197	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	142843	93.367	ug/l	99
59) 2-Hexanone	11.194	43	237694	110.658	ug/l	100
60) Dibromochloromethane	11.359	129	50326	21.251	ug/l	97
61) 1,2-Dibromoethane	11.470	107	44554	21.393	ug/l	98
64) Tetrachloroethene	11.100	164	38055	20.179	ug/l	97
65) Chlorobenzene	11.888	112	123787	20.620	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	44285	21.417	ug/l	96
67) Ethyl Benzene	11.959	91	219635	20.688	ug/l	98
68) m/p-Xylenes	12.070	106	168826	42.989	ug/l	98
69) o-Xylene	12.394	106	79896	21.503	ug/l	98
70) Styrene	12.412	104	134066	21.302	ug/l	98
71) Bromoform	12.576	173	32824	21.561	ug/l #	99
73) Isopropylbenzene	12.694	105	207217	21.254	ug/l	99
74) N-amyl acetate	12.494	43	93392	21.154	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	60656	20.690	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	51246m	20.124	ug/l	
77) Bromobenzene	12.976	156	48803	20.752	ug/l	98
78) n-propylbenzene	13.035	91	241164	21.350	ug/l	98
79) 2-Chlorotoluene	13.123	91	147738	20.497	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	171600	21.577	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	22222	20.426	ug/l	92
82) 4-Chlorotoluene	13.217	91	151387	20.864	ug/l	100
83) tert-Butylbenzene	13.435	119	147727	20.899	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	176283	22.004	ug/l	99
85) sec-Butylbenzene	13.611	105	205477	21.784	ug/l	99
86) p-Isopropyltoluene	13.729	119	171766	22.022	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	90970	20.620	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	88628	19.893	ug/l	96
89) n-Butylbenzene	14.053	91	151334	21.398	ug/l	100
90) Hexachloroethane	14.335	117	32554	20.562	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	88942	20.560	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12914	21.347	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	47149	22.128	ug/l	99
94) Hexachlorobutadiene	15.500	225	22742	21.402	ug/l	97
95) Naphthalene	15.641	128	149988	21.233	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	46153	21.639	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh
Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

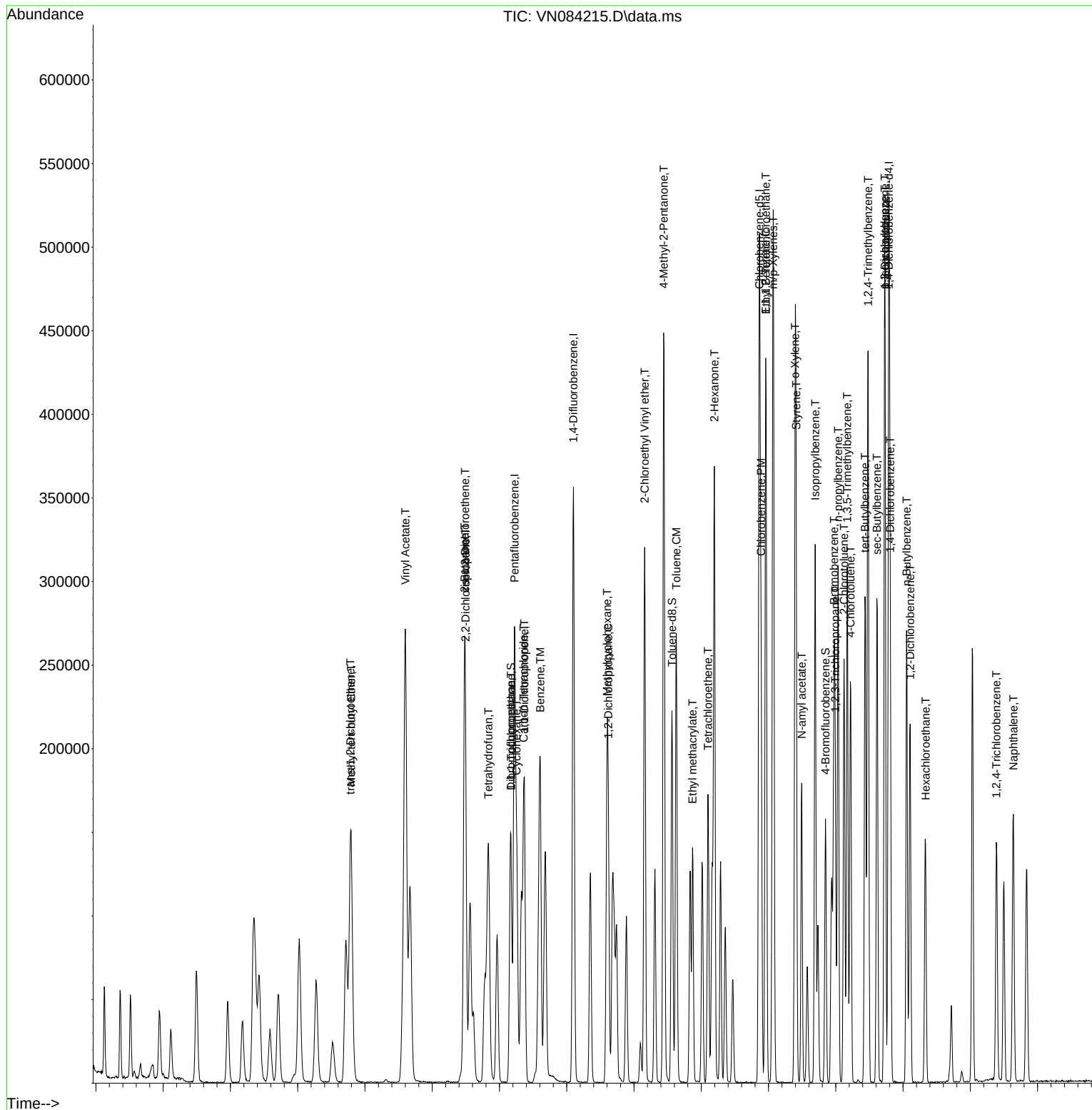
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Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh
Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084216.D
 Acq On : 30 Sep 2024 13:37
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	176243	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304981	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	262325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119657	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	25083	9.599	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	19.200%#
35) Dibromofluoromethane	8.165	113	19289	9.594	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	19.180%#
50) Toluene-d8	10.565	98	70000	9.463	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	18.920%#
62) 4-Bromofluorobenzene	12.847	95	24756	9.186	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	18.380%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.130	85	19806	9.501	ug/l	96
3) Chloromethane	2.359	50	22840	9.595	ug/l	97
4) Vinyl Chloride	2.518	62	22584	9.795	ug/l	97
5) Bromomethane	2.965	94	14957	9.835	ug/l	96
6) Chloroethane	3.124	64	15254	9.238	ug/l	89
7) Trichlorofluoromethane	3.494	101	33820	9.420	ug/l	99
8) Diethyl Ether	3.965	74	12422	9.328	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	18747	9.113	ug/l	98
10) Methyl Iodide	4.594	142	24268	9.160	ug/l	96
11) Tert butyl alcohol	5.512	59	20490	47.553	ug/l #	86
12) 1,1-Dichloroethene	4.341	96	18798	9.473	ug/l	86
13) Acrolein	4.183	56	22976	46.448	ug/l	98
14) Allyl chloride	5.024	41	31571	9.161	ug/l	98
15) Acrylonitrile	5.718	53	52809	48.533	ug/l	99
16) Acetone	4.424	43	52518	46.785	ug/l	96
17) Carbon Disulfide	4.718	76	58158	9.257	ug/l	99
18) Methyl Acetate	5.024	43	24366	9.959	ug/l	95
19) Methyl tert-butyl Ether	5.794	73	63531	9.486	ug/l	94
20) Methylene Chloride	5.277	84	21801	9.554	ug/l	87
21) trans-1,2-Dichloroethene	5.788	96	20107	9.672	ug/l	85
22) Diisopropyl ether	6.671	45	66959	9.393	ug/l	97
23) Vinyl Acetate	6.606	43	248594	46.769	ug/l	98
24) 1,1-Dichloroethane	6.571	63	38215	9.586	ug/l	99
25) 2-Butanone	7.482	43	73877	48.320	ug/l	99
26) 2,2-Dichloropropane	7.488	77	34655	9.641	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	23095	9.193	ug/l	98
28) Bromochloromethane	7.812	49	14904	8.379	ug/l	100
29) Tetrahydrofuran	7.835	42	46917	49.725	ug/l	99
30) Chloroform	7.965	83	39355	9.504	ug/l	90
31) Cyclohexane	8.253	56	36916	9.538	ug/l	92
32) 1,1,1-Trichloroethane	8.171	97	35869	9.645	ug/l #	87
36) 1,1-Dichloropropene	8.377	75	28525	9.767	ug/l	99
37) Ethyl Acetate	7.565	43	29754	9.931	ug/l #	81
38) Carbon Tetrachloride	8.365	117	30964	9.665	ug/l	92
39) Methylcyclohexane	9.600	83	30932	9.516	ug/l	95
40) Benzene	8.606	78	86029	9.454	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084216.D
 Acq On : 30 Sep 2024 13:37
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	15332	9.426	ug/l	97
42) 1,2-Dichloroethane	8.671	62	30402	9.855	ug/l	97
43) Isopropyl Acetate	8.688	43	52246	8.906	ug/l	99
44) Trichloroethene	9.347	130	20092	9.454	ug/l	99
45) 1,2-Dichloropropane	9.618	63	20703	9.618	ug/l	96
46) Dibromomethane	9.706	93	13770	9.479	ug/l	95
47) Bromodichloromethane	9.888	83	30289	9.385	ug/l #	98
48) Methyl methacrylate	9.682	41	22612	9.679	ug/l	98
49) 1,4-Dioxane	9.694	88	8627	200.587	ug/l #	78
51) 4-Methyl-2-Pentanone	10.441	43	142632	50.007	ug/l	99
52) Toluene	10.629	92	52537	9.468	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	31555	9.592	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	34684	9.802	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	19245	9.675	ug/l	97
56) Ethyl methacrylate	10.870	69	31262	9.551	ug/l	97
57) 1,3-Dichloropropane	11.165	76	33613	9.457	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	71035	46.784	ug/l	99
59) 2-Hexanone	11.194	43	103615	48.604	ug/l	100
60) Dibromochloromethane	11.359	129	22833	9.715	ug/l	99
61) 1,2-Dibromoethane	11.470	107	19220	9.299	ug/l	95
64) Tetrachloroethene	11.100	164	17743	9.711	ug/l	97
65) Chlorobenzene	11.894	112	56099	9.645	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	19227	9.597	ug/l	97
67) Ethyl Benzene	11.964	91	96533	9.385	ug/l	97
68) m/p-Xylenes	12.070	106	72910	19.162	ug/l	100
69) o-Xylene	12.394	106	34965	9.713	ug/l	100
70) Styrene	12.412	104	58367	9.572	ug/l	99
71) Bromoform	12.576	173	13618	9.233	ug/l #	96
73) Isopropylbenzene	12.694	105	88000	9.638	ug/l	99
74) N-amyl acetate	12.494	43	40801	9.868	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	26966	9.822	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	23907m	10.024	ug/l	
77) Bromobenzene	12.982	156	21439	9.734	ug/l	99
78) n-propylbenzene	13.035	91	105334	9.957	ug/l	99
79) 2-Chlorotoluene	13.123	91	65511	9.704	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	73637	9.887	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	10237	10.047	ug/l	94
82) 4-Chlorotoluene	13.223	91	66449	9.778	ug/l	99
83) tert-Butylbenzene	13.435	119	64152	9.691	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	74245	9.895	ug/l	99
85) sec-Butylbenzene	13.611	105	88913	10.065	ug/l	100
86) p-Isopropyltoluene	13.729	119	71675	9.812	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	39402	9.536	ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	39191	9.392	ug/l	97
89) n-Butylbenzene	14.053	91	61422	9.273	ug/l	99
90) Hexachloroethane	14.335	117	14560	9.820	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	38594	9.526	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5799	10.235	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	18960	9.501	ug/l	99
94) Hexachlorobutadiene	15.500	225	9592	9.638	ug/l	95
95) Naphthalene	15.635	128	63596	9.613	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	19629	9.826	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

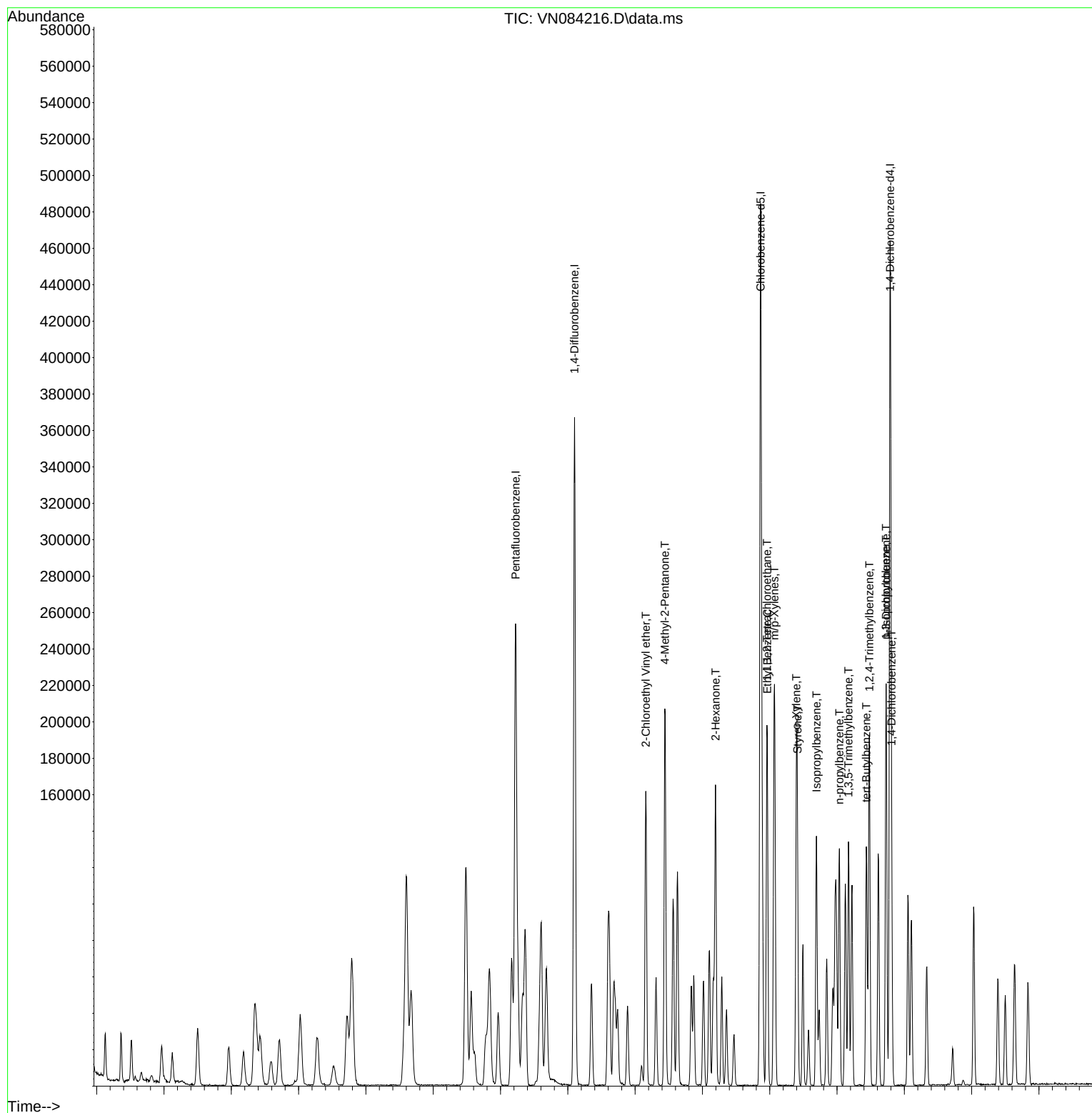
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/01/2024
Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084217.D
 Acq On : 30 Sep 2024 14:00
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	161547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	288067	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245710	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112491	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	13262	5.537	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	11.080%#
35) Dibromofluoromethane	8.171	113	10333	5.441	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.880%#
50) Toluene-d8	10.565	98	35782	5.121	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.240%#
62) 4-Bromofluorobenzene	12.847	95	13132	5.159	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	10.320%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	9807	5.132	ug/l	94
3) Chloromethane	2.359	50	12064	5.529	ug/l	92
4) Vinyl Chloride	2.512	62	11701	5.536	ug/l	96
5) Bromomethane	2.947	94	8091	5.804	ug/l	97
6) Chloroethane	3.118	64	8433	5.571	ug/l	94
7) Trichlorofluoromethane	3.495	101	17988	5.466	ug/l	90
8) Diethyl Ether	3.953	74	6430	5.268	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	10220m	5.420	ug/l	
10) Methyl Iodide	4.589	142	12344	5.083	ug/l #	97
11) Tert butyl alcohol	5.512	59	11537	29.211	ug/l #	91
12) 1,1-Dichloroethene	4.342	96	10191	5.603	ug/l	95
13) Acrolein	4.177	56	13122	28.940	ug/l	99
14) Allyl chloride	5.030	41	17724	5.611	ug/l	90
15) Acrylonitrile	5.718	53	26537	26.607	ug/l	99
16) Acetone	4.430	43	27153	26.389	ug/l	95
17) Carbon Disulfide	4.712	76	30816	5.351	ug/l	97
18) Methyl Acetate	5.024	43	12354	5.509	ug/l #	72
19) Methyl tert-butyl Ether	5.800	73	33101	5.392	ug/l	97
20) Methylene Chloride	5.265	84	10809	5.168	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	10126m	5.314	ug/l	
22) Diisopropyl ether	6.671	45	35654	5.457	ug/l	99
23) Vinyl Acetate	6.606	43	128057m	26.284	ug/l	
24) 1,1-Dichloroethane	6.565	63	19800	5.419	ug/l	95
25) 2-Butanone	7.482	43	37739	26.929	ug/l	99
26) 2,2-Dichloropropane	7.488	77	17552	5.327	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	12388	5.380	ug/l	99
28) Bromochloromethane	7.812	49	9996	6.131	ug/l #	95
29) Tetrahydrofuran	7.841	42	23456	27.121	ug/l	97
30) Chloroform	7.965	83	20341	5.359	ug/l	92
31) Cyclohexane	8.259	56	21337	6.014	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	18635	5.467	ug/l #	53
36) 1,1-Dichloropropene	8.371	75	14527	5.266	ug/l	99
37) Ethyl Acetate	7.565	43	16138	5.702	ug/l	97
38) Carbon Tetrachloride	8.359	117	15700	5.188	ug/l	95
39) Methylcyclohexane	9.594	83	15377	5.009	ug/l	94
40) Benzene	8.606	78	45343	5.276	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084217.D
 Acq On : 30 Sep 2024 14:00
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/01/2024

Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M

Quant Title : SW846 8260

QLast Update : Tue Oct 01 06:46:32 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	7878	5.128	ug/l	93
42) 1,2-Dichloroethane	8.677	62	15661	5.375	ug/l	99
43) Isopropyl Acetate	8.682	43	28029m	5.059	ug/l	
44) Trichloroethene	9.347	130	10921	5.440	ug/l	87
45) 1,2-Dichloropropane	9.618	63	11181	5.499	ug/l	95
46) Dibromomethane	9.706	93	7207	5.253	ug/l	93
47) Bromodichloromethane	9.888	83	16407	5.382	ug/l #	97
48) Methyl methacrylate	9.676	41	11766	5.332	ug/l	97
49) 1,4-Dioxane	9.688	88	4121	101.444	ug/l #	79
51) 4-Methyl-2-Pentanone	10.441	43	69730	25.883	ug/l	99
52) Toluene	10.629	92	26489	5.054	ug/l	96
53) t-1,3-Dichloropropene	10.835	75	16242	5.227	ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	17448	5.220	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	9805	5.219	ug/l	89
56) Ethyl methacrylate	10.876	69	15794	5.109	ug/l	96
57) 1,3-Dichloropropane	11.159	76	17954	5.348	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	38417	26.787	ug/l	99
59) 2-Hexanone	11.194	43	51488	25.570	ug/l	98
60) Dibromochloromethane	11.359	129	11412	5.141	ug/l	96
61) 1,2-Dibromoethane	11.470	107	10394	5.324	ug/l	98
64) Tetrachloroethene	11.106	164	9167	5.356	ug/l	90
65) Chlorobenzene	11.888	112	28818	5.290	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	10054	5.358	ug/l	97
67) Ethyl Benzene	11.965	91	49891	5.178	ug/l	97
68) m/p-Xylenes	12.065	106	35820	10.051	ug/l	98
69) o-Xylene	12.400	106	18041	5.350	ug/l	96
70) Styrene	12.412	104	28472	4.985	ug/l	99
71) Bromoform	12.582	173	7067	5.115	ug/l #	95
73) Isopropylbenzene	12.694	105	43468	5.064	ug/l	98
74) N-amyl acetate	12.494	43	19775	5.087	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	14517	5.624	ug/l	94
76) 1,2,3-Trichloropropane	12.994	75	14072m	6.276	ug/l	
77) Bromobenzene	12.976	156	11049	5.336	ug/l	99
78) n-propylbenzene	13.035	91	51120	5.140	ug/l	99
79) 2-Chlorotoluene	13.123	91	33161	5.225	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	36100	5.156	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	4595	4.797	ug/l #	79
82) 4-Chlorotoluene	13.223	91	33382	5.225	ug/l	99
83) tert-Butylbenzene	13.435	119	31990	5.140	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	36099	5.118	ug/l	100
85) sec-Butylbenzene	13.612	105	40954	4.931	ug/l	98
86) p-Isopropyltoluene	13.729	119	34083	4.963	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	20730	5.337	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21249	5.417	ug/l	96
89) n-Butylbenzene	14.059	91	30253	4.858	ug/l	99
90) Hexachloroethane	14.329	117	7628	5.472	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	19905	5.226	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	3046	5.719	ug/l	92
93) 1,2,4-Trichlorobenzene	15.394	180	9439	5.031	ug/l	95
94) Hexachlorobutadiene	15.500	225	5174	5.530	ug/l	89
95) Naphthalene	15.641	128	30391	4.886	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	9245	4.923	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

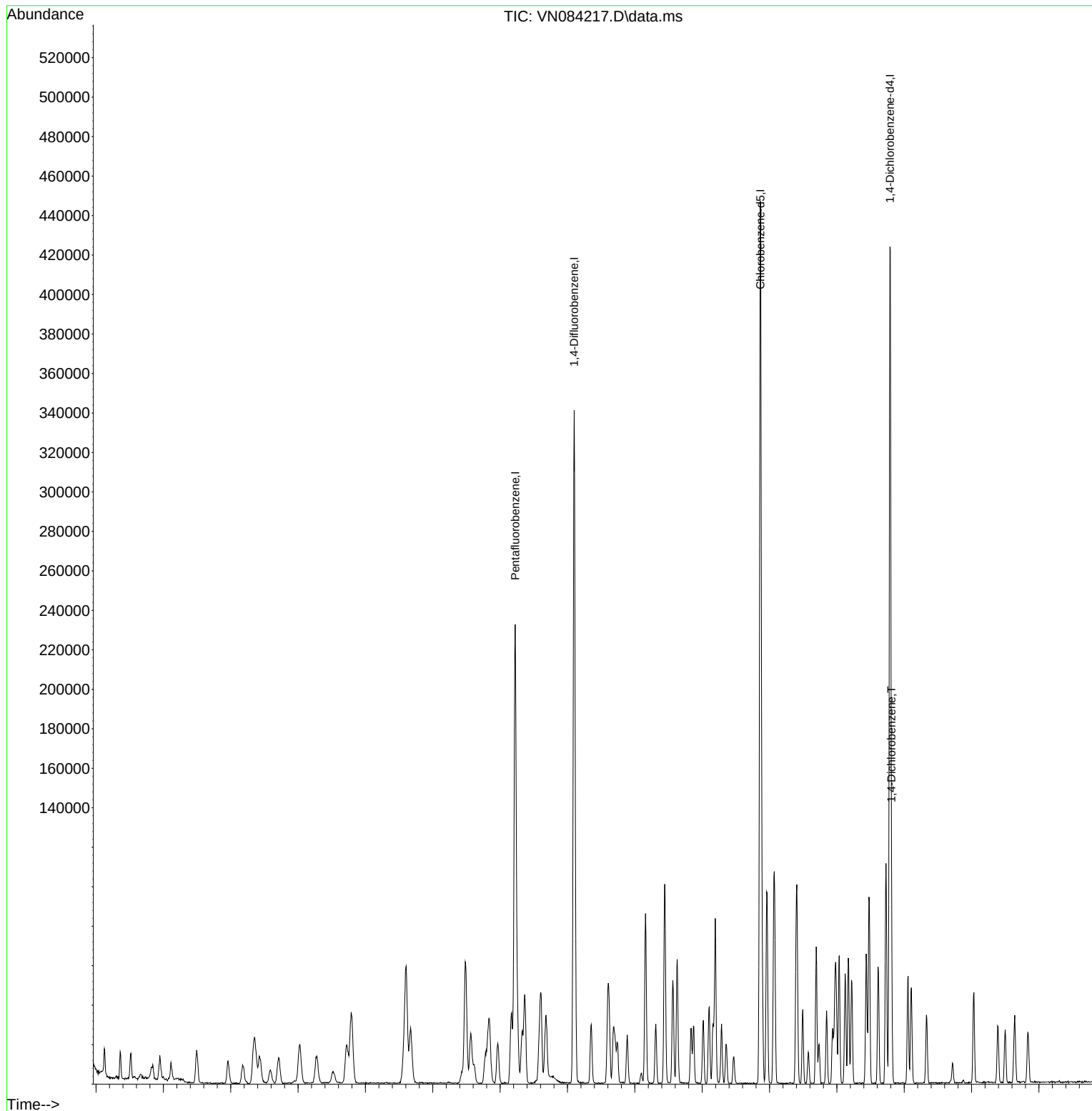
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/01/2024
Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084218.D
 Acq On : 30 Sep 2024 14:48
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Quant Time: Oct 01 06:49:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 06:46:32 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	160573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	290146	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244376	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	101963	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	1928	1.015	ug/l	83
3) Chloromethane	2.365	50	2217	1.022	ug/l	99
4) Vinyl Chloride	2.512	62	1981	0.943	ug/l	89
6) Chloroethane	3.124	64	2029	1.349	ug/l	97
7) Trichlorofluoromethane	3.500	101	3140	0.960	ug/l	94
8) Diethyl Ether	3.965	74	1167	0.962	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.371	101	1934	1.032	ug/l #	63
12) 1,1-Dichloroethene	4.353	96	1584	0.876	ug/l #	50
14) Allyl chloride	5.018	41	2852m	0.908	ug/l	
15) Acrylonitrile	5.736	53	4920	4.963	ug/l #	81
16) Acetone	4.436	43	4799	4.692	ug/l	90
17) Carbon Disulfide	4.718	76	6680	1.167	ug/l	100
18) Methyl Acetate	5.030	43	2249	1.009	ug/l #	64
19) Methyl tert-butyl Ether	5.806	73	5319	0.872	ug/l #	83
20) Methylene Chloride	5.277	84	2203	1.060	ug/l #	83
21) trans-1,2-Dichloroethene	5.783	96	1753	0.925	ug/l	86
22) Diisopropyl ether	6.671	45	5639	0.868	ug/l #	96
23) Vinyl Acetate	6.606	43	19212m	3.967	ug/l	
24) 1,1-Dichloroethane	6.571	63	3358	0.925	ug/l #	83
25) 2-Butanone	7.488	43	6488	4.658	ug/l	91
26) 2,2-Dichloropropane	7.494	77	2902	0.886	ug/l	96
27) cis-1,2-Dichloroethene	7.483	96	2259	0.987	ug/l	92
28) Bromochloromethane	7.824	49	1718	1.060	ug/l #	87
29) Tetrahydrofuran	7.841	42	4006	4.660	ug/l	92
30) Chloroform	7.971	83	3793	1.005	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	3120	0.921	ug/l #	53
36) 1,1-Dichloropropene	8.365	75	2420	0.871	ug/l	98
37) Ethyl Acetate	7.559	43	2596	0.911	ug/l #	78
38) Carbon Tetrachloride	8.359	117	2795	0.917	ug/l	90
39) Methylcyclohexane	9.600	83	2486	0.804	ug/l #	88
40) Benzene	8.606	78	8245	0.952	ug/l	94
41) Methacrylonitrile	7.782	41	1490	0.963	ug/l #	66
42) 1,2-Dichloroethane	8.671	62	2669	0.909	ug/l	88
43) Isopropyl Acetate	8.688	43	7614m	1.364	ug/l	
44) Trichloroethene	9.347	130	1885	0.932	ug/l	87
45) 1,2-Dichloropropane	9.624	63	1676	0.818	ug/l #	44

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084218.D
 Acq On : 30 Sep 2024 14:48
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/01/2024

Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M

Quant Title : SW846 8260

QLast Update : Tue Oct 01 06:46:32 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	1144	0.828	ug/l	87
47) Bromodichloromethane	9.894	83	2754	0.897	ug/l #	93
48) Methyl methacrylate	9.676	41	1824	0.821	ug/l	93
49) 1,4-Dioxane	9.694	88	800	19.552	ug/l #	78
51) 4-Methyl-2-Pentanone	10.447	43	11218	4.134	ug/l	97
52) Toluene	10.629	92	4875	0.923	ug/l	91
53) t-1,3-Dichloropropene	10.829	75	2493	0.797	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	2720	0.808	ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	1669	0.882	ug/l	90
56) Ethyl methacrylate	10.876	69	2402	0.771	ug/l #	77
57) 1,3-Dichloropropane	11.159	76	3092	0.914	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	6179	4.278	ug/l	98
59) 2-Hexanone	11.194	43	8282	4.084	ug/l	96
60) Dibromochloromethane	11.353	129	1916	0.857	ug/l	91
61) 1,2-Dibromoethane	11.465	107	1795	0.913	ug/l	99
64) Tetrachloroethene	11.106	164	1690	0.993	ug/l #	87
65) Chlorobenzene	11.888	112	5025	0.927	ug/l #	86
66) 1,1,1,2-Tetrachloroethane	11.959	131	1632	0.874	ug/l #	66
67) Ethyl Benzene	11.965	91	8582	0.896	ug/l #	88
68) m/p-Xylenes	12.070	106	5869	1.656	ug/l	95
69) o-Xylene	12.400	106	2398	0.715	ug/l	83
70) Styrene	12.412	104	4489	0.790	ug/l	94
71) Bromoform	12.576	173	1168	0.850	ug/l #	94
73) Isopropylbenzene	12.688	105	6991	0.899	ug/l	97
74) N-amyl acetate	12.494	43	3228	0.916	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.941	83	2233	0.954	ug/l #	95
76) 1,2,3-Trichloropropane	12.994	75	1826m	0.899	ug/l	
77) Bromobenzene	12.976	156	1818	0.969	ug/l	98
78) n-propylbenzene	13.035	91	7045	0.781	ug/l	95
79) 2-Chlorotoluene	13.129	91	5383	0.936	ug/l	92
80) 1,3,5-Trimethylbenzene	13.170	105	4830	0.761	ug/l	95
82) 4-Chlorotoluene	13.223	91	5174	0.893	ug/l	100
83) tert-Butylbenzene	13.435	119	4909	0.870	ug/l	88
84) 1,2,4-Trimethylbenzene	13.482	105	4760	0.744	ug/l	100
85) sec-Butylbenzene	13.612	105	5795	0.770	ug/l	99
86) p-Isopropyltoluene	13.723	119	4495	0.722	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	3424	0.972	ug/l	96
88) 1,4-Dichlorobenzene	13.812	146	3648m	1.026	ug/l	
89) n-Butylbenzene	14.053	91	4866	0.862	ug/l	97
90) Hexachloroethane	14.335	117	1151	0.911	ug/l	82
91) 1,2-Dichlorobenzene	14.100	146	3610	1.046	ug/l	92
92) 1,2-Dibromo-3-Chloropr...	14.711	75	423	0.876	ug/l	65
93) 1,2,4-Trichlorobenzene	15.400	180	1340	0.788	ug/l	89
94) Hexachlorobutadiene	15.494	225	861	1.015	ug/l	90
95) Naphthalene	15.641	128	5031	0.892	ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	1531	0.899	ug/l	95

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

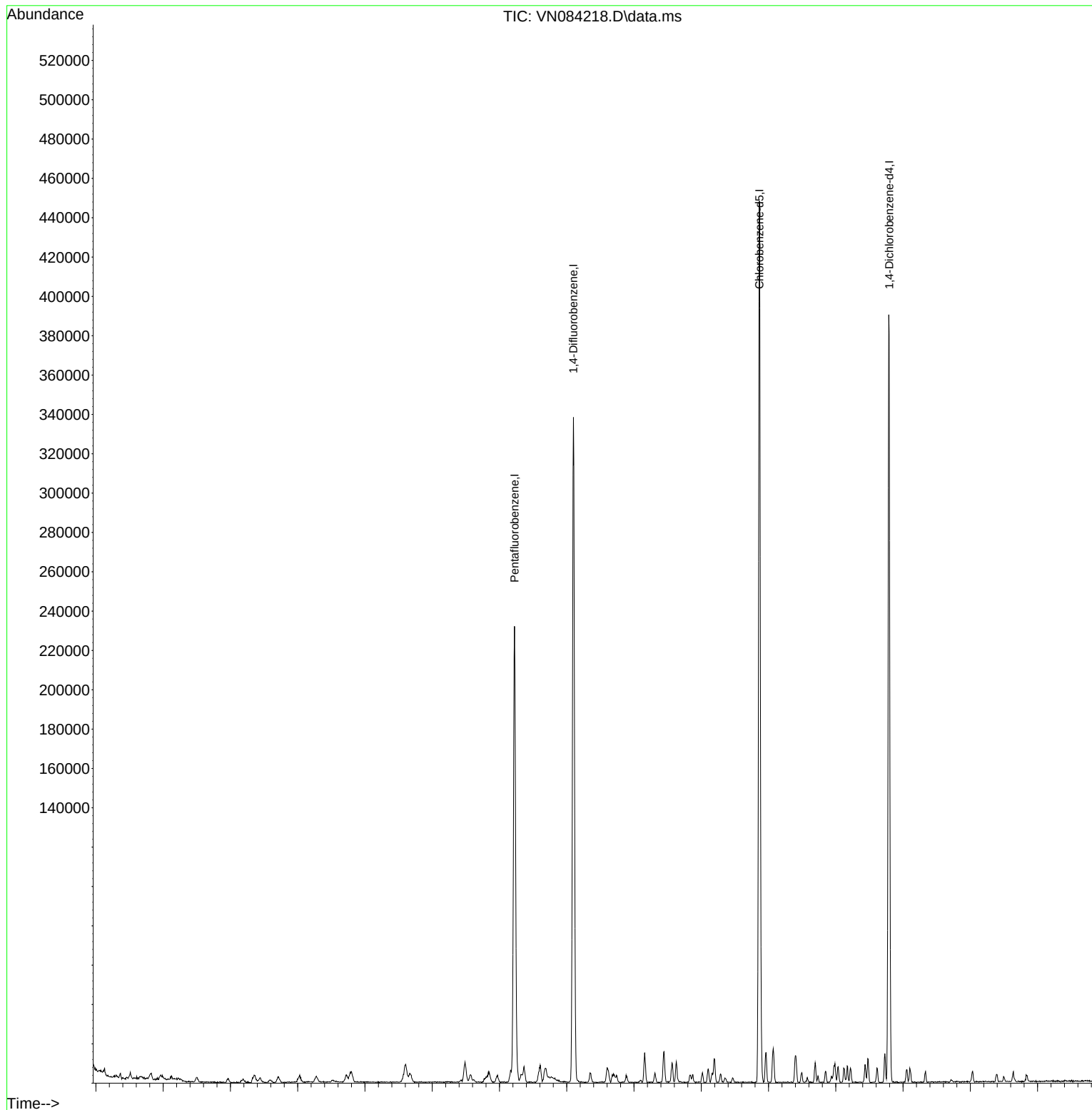
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/01/2024
Supervised By : Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084220.D
 Acq On : 30 Sep 2024 15:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN093024

Quant Time: Oct 01 07:14:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/01/2024
 Supervised By : Mahesh Dadoda 10/01/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	174241	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	300916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	263364	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130851	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130630	50.564	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.120%
35) Dibromofluoromethane	8.165	113	100200	50.508	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.020%
50) Toluene-d8	10.565	98	387775	53.129	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.260%
62) 4-Bromofluorobenzene	12.847	95	140850	52.971	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.940%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	108641	52.712	ug/l	95
3) Chloromethane	2.359	50	121140	51.477	ug/l	97
4) Vinyl Chloride	2.512	62	116792	51.235	ug/l	99
5) Bromomethane	2.947	94	71654	47.656	ug/l	99
6) Chloroethane	3.118	64	73658	45.119	ug/l	94
7) Trichlorofluoromethane	3.495	101	188482	53.099	ug/l	98
8) Diethyl Ether	3.959	74	70360	53.445	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	104895	51.573	ug/l	99
10) Methyl Iodide	4.589	142	141430	53.996	ug/l	92
11) Tert butyl alcohol	5.524	59	109545	257.154	ug/l	99
12) 1,1-Dichloroethene	4.342	96	104103	53.064	ug/l	95
13) Acrolein	4.177	56	125971	257.587	ug/l	97
14) Allyl chloride	5.024	41	174077	51.092	ug/l	100
15) Acrylonitrile	5.718	53	293962	273.264	ug/l	99
16) Acetone	4.430	43	308020	277.547	ug/l	97
17) Carbon Disulfide	4.712	76	302450	48.693	ug/l	100
18) Methyl Acetate	5.024	43	130494	53.948	ug/l	98
19) Methyl tert-butyl Ether	5.800	73	360019	54.371	ug/l	96
20) Methylene Chloride	5.277	84	117572	52.116	ug/l	89
21) trans-1,2-Dichloroethene	5.783	96	108894	52.980	ug/l	97
22) Diisopropyl ether	6.671	45	384647	54.579	ug/l	99
23) Vinyl Acetate	6.600	43	1492704	285.569	ug/l	99
24) 1,1-Dichloroethane	6.565	63	211544	53.676	ug/l	98
25) 2-Butanone	7.482	43	426860	282.397	ug/l	98
26) 2,2-Dichloropropane	7.488	77	189858	53.428	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	128843	51.876	ug/l	98
28) Bromochloromethane	7.818	49	84632	48.129	ug/l	97
29) Tetrahydrofuran	7.835	42	262996	281.940	ug/l	99
30) Chloroform	7.965	83	213634	52.184	ug/l	95
31) Cyclohexane	8.259	56	190602	49.809	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	196319	53.395	ug/l	99
36) 1,1-Dichloropropene	8.371	75	155365	53.917	ug/l	99
37) Ethyl Acetate	7.559	43	159764	54.043	ug/l	99
38) Carbon Tetrachloride	8.359	117	169403	53.593	ug/l	94
39) Methylcyclohexane	9.600	83	181676	56.648	ug/l	98
40) Benzene	8.606	78	478538	53.301	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084220.D
 Acq On : 30 Sep 2024 15:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN093024

Quant Time: Oct 01 07:14:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/01/2024
 Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	89407	55.708	ug/l	98
42) 1,2-Dichloroethane	8.671	62	164758	54.131	ug/l	99
43) Isopropyl Acetate	8.688	43	278668	48.126	ug/l	100
44) Trichloroethene	9.353	130	109810	52.368	ug/l	100
45) 1,2-Dichloropropane	9.618	63	116161	54.694	ug/l	99
46) Dibromomethane	9.706	93	80284	56.015	ug/l	100
47) Bromodichloromethane	9.888	83	173015	54.335	ug/l	98
48) Methyl methacrylate	9.682	41	132287	57.391	ug/l	98
49) 1,4-Dioxane	9.694	88	47169	1111.545	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	808630	287.336	ug/l	100
52) Toluene	10.629	92	296651	54.185	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	183153	56.426	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	193475	55.416	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	108550	55.307	ug/l	98
56) Ethyl methacrylate	10.876	69	189121	58.561	ug/l	100
57) 1,3-Dichloropropane	11.165	76	191966	54.738	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	415454	277.315	ug/l	98
59) 2-Hexanone	11.194	43	621000	295.238	ug/l	100
60) Dibromochloromethane	11.359	129	127786	55.105	ug/l	99
61) 1,2-Dibromoethane	11.470	107	111244	54.548	ug/l	98
64) Tetrachloroethene	11.100	164	96460	52.585	ug/l	99
65) Chlorobenzene	11.888	112	312728	53.555	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	111388	55.381	ug/l	97
67) Ethyl Benzene	11.965	91	573790	55.563	ug/l	99
68) m/p-Xylenes	12.070	106	434515	113.748	ug/l	99
69) o-Xylene	12.400	106	209737	58.032	ug/l	99
70) Styrene	12.412	104	355892	58.136	ug/l	99
71) Bromoform	12.576	173	84787	57.258	ug/l #	99
73) Isopropylbenzene	12.694	105	535240	53.604	ug/l	100
74) N-amyl acetate	12.494	43	249223	55.118	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	157322	52.398	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	134836m	50.475	ug/l	
77) Bromobenzene	12.976	156	124463	51.676	ug/l	98
78) n-propylbenzene	13.035	91	638464	55.188	ug/l	99
79) 2-Chlorotoluene	13.123	91	390502	52.898	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	456943	56.101	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	58987	52.939	ug/l	99
82) 4-Chlorotoluene	13.217	91	397246	53.455	ug/l	100
83) tert-Butylbenzene	13.435	119	390221	53.903	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	461123	56.199	ug/l	98
85) sec-Butylbenzene	13.617	105	536685	55.556	ug/l	99
86) p-Isopropyltoluene	13.729	119	452245	56.614	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	234190	51.830	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	234070	51.298	ug/l	99
89) n-Butylbenzene	14.053	91	396001	54.671	ug/l	100
90) Hexachloroethane	14.329	117	82363	50.795	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	226320	51.082	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32296	52.125	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	114157	52.311	ug/l	99
94) Hexachlorobutadiene	15.500	225	50461	46.368	ug/l	97
95) Naphthalene	15.641	128	380549	52.602	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	111086	50.853	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICV\VN093024

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

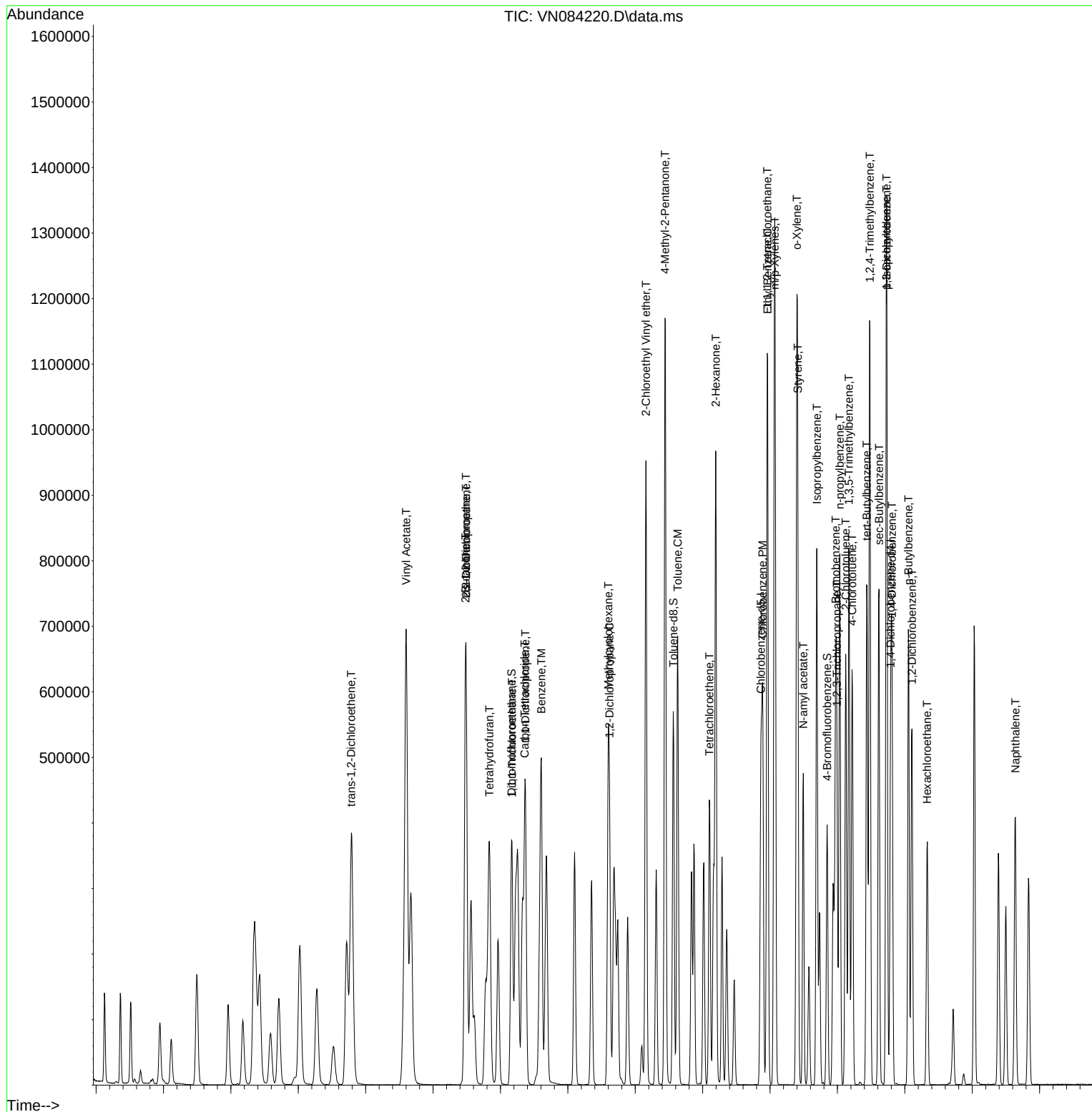
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\  
Data File : VN084220.D  
Acq On    : 30 Sep 2024 15:36  
Operator  : JC\MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 12 Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084220.D
 Acq On : 30 Sep 2024 15:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN093024

Quant Time: Oct 01 07:14:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	0.591	0.624	-5.6	101	0.00
3 P	Chloromethane	0.675	0.695	-3.0	103	0.00
4 C	Vinyl Chloride	0.654	0.670	-2.4#	100	0.00
5 T	Bromomethane	0.431	0.411	4.6	94	0.00
6 T	Chloroethane	0.468	0.423	9.6	100	0.00
7 T	Trichlorofluoromethane	1.019	1.082	-6.2	101	0.00
8 T	Diethyl Ether	0.378	0.404	-6.9	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.584	0.602	-3.1	101	0.00
10 T	Methyl Iodide	0.752	0.812	-8.0	100	0.00
11 T	Tert butyl alcohol	0.122	0.126	-3.3	101	0.00
12 CM	1,1-Dichloroethene	0.563	0.597	-6.0#	101	0.00
13 T	Acrolein	0.140	0.145	-3.6	101	0.00
14 T	Allyl chloride	0.978	0.999	-2.1	100	0.00
15 T	Acrylonitrile	0.309	0.337	-9.1	106	0.00
16 T	Acetone	0.318	0.354	-11.3	103	0.00
17 T	Carbon Disulfide	1.782	1.736	2.6	100	0.00
18 T	Methyl Acetate	0.694	0.749	-7.9	105	0.00
19 T	Methyl tert-butyl Ether	1.900	2.066	-8.7	101	0.00
20 T	Methylene Chloride	0.647	0.675	-4.3	102	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.625	-5.9	100	0.00
22 T	Diisopropyl ether	2.022	2.208	-9.2	101	0.00
23 T	Vinyl Acetate	1.500	1.713	-14.2	103	0.00
24 P	1,1-Dichloroethane	1.131	1.214	-7.3	101	0.00
25 T	2-Butanone	0.434	0.490	-12.9	108	0.00
26 T	2,2-Dichloropropane	1.020	1.090	-6.9	100	0.00
27 T	cis-1,2-Dichloroethene	0.713	0.739	-3.6	99	0.00
28 T	Bromochloromethane	0.505	0.486	3.8	98	0.00
29 T	Tetrahydrofuran	0.268	0.302	-12.7	106	0.00
30 C	Chloroform	1.175	1.226	-4.3#	101	0.00
31 T	Cyclohexane	1.098	1.094	0.4	102	0.00
32 T	1,1,1-Trichloroethane	1.055	1.127	-6.8	102	0.00
33 S	1,2-Dichloroethane-d4	0.741	0.750	-1.2	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35 S	Dibromofluoromethane	0.330	0.333	-0.9	102	0.00
36 T	1,1-Dichloropropene	0.479	0.516	-7.7	100	0.00
37 T	Ethyl Acetate	0.491	0.531	-8.1	104	0.00
38 T	Carbon Tetrachloride	0.525	0.563	-7.2	101	0.00
39 T	Methylcyclohexane	0.533	0.604	-13.3	102	0.00
40 TM	Benzene	1.492	1.590	-6.6	101	0.00
41 T	Methacrylonitrile	0.267	0.297	-11.2	102	0.00
42 TM	1,2-Dichloroethane	0.506	0.548	-8.3	103	0.00
43 T	Isopropyl Acetate	0.962	0.926	3.7	102	0.00
44 TM	Trichloroethene	0.348	0.365	-4.9	100	0.00
45 C	1,2-Dichloropropane	0.353	0.386	-9.3#	102	0.00
46 T	Dibromomethane	0.238	0.267	-12.2	102	0.00
47 T	Bromodichloromethane	0.529	0.575	-8.7	102	0.00
48 T	Methyl methacrylate	0.383	0.440	-14.9	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084220.D
 Acq On : 30 Sep 2024 15:36
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN093024

Quant Time: Oct 01 07:14:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	0.007	0.008	-14.3	106	0.00
50 S	Toluene-d8	1.213	1.289	-6.3	103	0.00
51 T	4-Methyl-2-Pentanone	0.468	0.537	-14.7	105	0.00
52 CM	Toluene	0.910	0.986	-8.4#	101	0.00
53 T	t-1,3-Dichloropropene	0.539	0.609	-13.0	102	0.00
54 T	cis-1,3-Dichloropropene	0.580	0.643	-10.9	100	0.00
55 T	1,1,2-Trichloroethane	0.326	0.361	-10.7	102	0.00
56 T	Ethyl methacrylate	0.537	0.628	-16.9	103	0.00
57 T	1,3-Dichloropropane	0.583	0.638	-9.4	102	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.276	-10.8	97	0.00
59 T	2-Hexanone	0.349	0.413	-18.3	106	0.00
60 T	Dibromochloromethane	0.385	0.425	-10.4	101	0.00
61 T	1,2-Dibromoethane	0.339	0.370	-9.1	102	0.00
62 S	4-Bromofluorobenzene	0.442	0.468	-5.9	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.348	0.366	-5.2	102	0.00
65 PM	Chlorobenzene	1.109	1.187	-7.0	101	0.00
66 T	1,1,1,2-Tetrachloroethane	0.382	0.423	-10.7	104	0.00
67 C	Ethyl Benzene	1.961	2.179	-11.1#	102	0.00
68 T	m/p-Xylenes	0.725	0.825	-13.8	102	0.00
69 T	o-Xylene	0.686	0.796	-16.0	102	0.00
70 T	Styrene	1.162	1.351	-16.3	102	0.00
71 P	Bromoform	0.281	0.322	-14.6	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	3.815	4.090	-7.2	101	0.00
74 T	N-amyl acetate	1.728	1.905	-10.2	105	0.00
75 P	1,1,2,2-Tetrachloroethane	1.147	1.202	-4.8	104	0.00
76 T	1,2,3-Trichloropropane	1.021	1.030	-0.9	94	0.00
77 T	Bromobenzene	0.920	0.951	-3.4	103	0.00
78 T	n-propylbenzene	4.421	4.879	-10.4	102	0.00
79 T	2-Chlorotoluene	2.821	2.984	-5.8	101	0.00
80 T	1,3,5-Trimethylbenzene	3.112	3.492	-12.2	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.426	0.451	-5.9	102	0.00
82 T	4-Chlorotoluene	2.840	3.036	-6.9	103	0.00
83 T	tert-Butylbenzene	2.766	2.982	-7.8	101	0.00
84 T	1,2,4-Trimethylbenzene	3.135	3.524	-12.4	103	0.00
85 T	sec-Butylbenzene	3.691	4.101	-11.1	101	0.00
86 T	p-Isopropyltoluene	3.052	3.456	-13.2	101	0.00
87 T	1,3-Dichlorobenzene	1.727	1.790	-3.6	103	0.00
88 T	1,4-Dichlorobenzene	1.744	1.789	-2.6	103	0.00
89 T	n-Butylbenzene	2.768	3.026	-9.3	100	0.00
90 T	Hexachloroethane	0.620	0.629	-1.5	101	0.00
91 T	1,2-Dichlorobenzene	1.693	1.730	-2.2	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.247	-4.2	106	0.00
93 T	1,2,4-Trichlorobenzene	0.834	0.872	-4.6	96	0.00
94 T	Hexachlorobutadiene	0.416	0.386	7.2	100	0.00
95 T	Naphthalene	2.764	2.908	-5.2	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.835	0.849	-1.7	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	52.712	-5.4	101	0.00
3 P	Chloromethane	50.000	51.477	-3.0	103	0.00
4 C	Vinyl Chloride	50.000	51.235	-2.5#	100	0.00
5 T	Bromomethane	50.000	47.656	4.7	94	0.00
6 T	Chloroethane	50.000	45.119	9.8	100	0.00
7 T	Trichlorofluoromethane	50.000	53.099	-6.2	101	0.00
8 T	Diethyl Ether	50.000	53.445	-6.9	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.573	-3.1	101	0.00
10 T	Methyl Iodide	50.000	53.996	-8.0	100	0.00
11 T	Tert butyl alcohol	250.000	257.154	-2.9	101	0.00
12 CM	1,1-Dichloroethene	50.000	53.064	-6.1#	101	0.00
13 T	Acrolein	250.000	257.587	-3.0	101	0.00
14 T	Allyl chloride	50.000	51.092	-2.2	100	0.00
15 T	Acrylonitrile	250.000	273.264	-9.3	106	0.00
16 T	Acetone	250.000	277.547	-11.0	103	0.00
17 T	Carbon Disulfide	50.000	48.693	2.6	100	0.00
18 T	Methyl Acetate	50.000	53.948	-7.9	105	0.00
19 T	Methyl tert-butyl Ether	50.000	54.371	-8.7	101	0.00
20 T	Methylene Chloride	50.000	52.116	-4.2	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.980	-6.0	100	0.00
22 T	Diisopropyl ether	50.000	54.579	-9.2	101	0.00
23 T	Vinyl Acetate	250.000	285.569	-14.2	103	0.00
24 P	1,1-Dichloroethane	50.000	53.676	-7.4	101	0.00
25 T	2-Butanone	250.000	282.397	-13.0	108	0.00
26 T	2,2-Dichloropropane	50.000	53.428	-6.9	100	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.876	-3.8	99	0.00
28 T	Bromochloromethane	50.000	48.129	3.7	98	0.00
29 T	Tetrahydrofuran	250.000	281.940	-12.8	106	0.00
30 C	Chloroform	50.000	52.184	-4.4#	101	0.00
31 T	Cyclohexane	50.000	49.809	0.4	102	0.00
32 T	1,1,1-Trichloroethane	50.000	53.395	-6.8	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.564	-1.1	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35 S	Dibromofluoromethane	50.000	50.508	-1.0	102	0.00
36 T	1,1-Dichloropropene	50.000	53.917	-7.8	100	0.00
37 T	Ethyl Acetate	50.000	54.043	-8.1	104	0.00
38 T	Carbon Tetrachloride	50.000	53.593	-7.2	101	0.00
39 T	Methylcyclohexane	50.000	56.648	-13.3	102	0.00
40 TM	Benzene	50.000	53.301	-6.6	101	0.00
41 T	Methacrylonitrile	50.000	55.708	-11.4	102	0.00
42 TM	1,2-Dichloroethane	50.000	54.131	-8.3	103	0.00
43 T	Isopropyl Acetate	50.000	48.126	3.7	102	0.00
44 TM	Trichloroethene	50.000	52.368	-4.7	100	0.00
45 C	1,2-Dichloropropane	50.000	54.694	-9.4#	102	0.00
46 T	Dibromomethane	50.000	56.015	-12.0	102	0.00
47 T	Bromodichloromethane	50.000	54.335	-8.7	102	0.00
48 T	Methyl methacrylate	50.000	57.391	-14.8	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1111.545	-11.2	106	0.00
50 S	Toluene-d8	50.000	53.129	-6.3	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	287.336	-14.9	105	0.00
52 CM	Toluene	50.000	54.185	-8.4#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	56.426	-12.9	102	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.416	-10.8	100	0.00
55 T	1,1,2-Trichloroethane	50.000	55.307	-10.6	102	0.00
56 T	Ethyl methacrylate	50.000	58.561	-17.1	103	0.00
57 T	1,3-Dichloropropane	50.000	54.738	-9.5	102	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	277.315	-10.9	97	0.00
59 T	2-Hexanone	250.000	295.238	-18.1	106	0.00
60 T	Dibromochloromethane	50.000	55.105	-10.2	101	0.00
61 T	1,2-Dibromoethane	50.000	54.548	-9.1	102	0.00
62 S	4-Bromofluorobenzene	50.000	52.971	-5.9	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	52.585	-5.2	102	0.00
65 PM	Chlorobenzene	50.000	53.555	-7.1	101	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.381	-10.8	104	0.00
67 C	Ethyl Benzene	50.000	55.563	-11.1#	102	0.00
68 T	m/p-Xylenes	100.000	113.748	-13.7	102	0.00
69 T	o-Xylene	50.000	58.032	-16.1	102	0.00
70 T	Styrene	50.000	58.136	-16.3	102	0.00
71 P	Bromoform	50.000	57.258	-14.5	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	53.604	-7.2	101	0.00
74 T	N-amyl acetate	50.000	55.118	-10.2	105	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.398	-4.8	104	0.00
76 T	1,2,3-Trichloropropane	50.000	50.475	-1.0	94	0.00
77 T	Bromobenzene	50.000	51.676	-3.4	103	0.00
78 T	n-propylbenzene	50.000	55.188	-10.4	102	0.00
79 T	2-Chlorotoluene	50.000	52.898	-5.8	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.101	-12.2	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.939	-5.9	102	0.00
82 T	4-Chlorotoluene	50.000	53.455	-6.9	103	0.00
83 T	tert-Butylbenzene	50.000	53.903	-7.8	101	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.199	-12.4	103	0.00
85 T	sec-Butylbenzene	50.000	55.556	-11.1	101	0.00
86 T	p-Isopropyltoluene	50.000	56.614	-13.2	101	0.00
87 T	1,3-Dichlorobenzene	50.000	51.830	-3.7	103	0.00
88 T	1,4-Dichlorobenzene	50.000	51.298	-2.6	103	0.00
89 T	n-Butylbenzene	50.000	54.671	-9.3	100	0.00
90 T	Hexachloroethane	50.000	50.795	-1.6	101	0.00
91 T	1,2-Dichlorobenzene	50.000	51.082	-2.2	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.125	-4.3	106	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.311	-4.6	96	0.00
94 T	Hexachlorobutadiene	50.000	46.368	7.3	100	0.00
95 T	Naphthalene	50.000	52.602	-5.2	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	50.853	-1.7	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11

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

LAB FILE ID:	RRF005 = VY019827.D		RRF010 = VY019828.D		RRF020 = VY019829.D		RRF050 = VY019830.D		RRF100 = VY019831.D		RRF150 = VY019832.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.1				
Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.8				
Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8				
Bromomethane	0.458	0.447	0.357	0.433	0.390	0.447	0.422	9.4				
Chloroethane	0.493	0.469	0.390	0.456	0.408	0.472	0.448	8.9				
Trichlorofluoromethane	1.101	1.016	0.868	1.000	0.915	1.051	0.992	8.7				
1,1,2-Trichlorotrifluoroethane	0.619	0.611	0.509	0.581	0.535	0.606	0.577	7.8				
1,1-Dichloroethene	0.588	0.558	0.453	0.550	0.499	0.570	0.536	9.4				
Acetone	0.196	0.156	0.134	0.170	0.152	0.153	0.160	12.9				
Carbon Disulfide	1.501	1.392	1.193	1.552	1.404	1.586	1.438	10				
Methyl tert-butyl Ether	1.719	1.559	1.334	1.574	1.443	1.617	1.541	8.8				
Methyl Acetate	0.393	0.334	0.301	0.350	0.321	0.372	0.345	9.7				
Methylene Chloride	0.869	0.695	0.551	0.619	0.543	0.603	0.647	18.9				
trans-1,2-Dichloroethene	0.630	0.597	0.511	0.605	0.547	0.612	0.584	7.7				
1,1-Dichloroethane	1.288	1.219	1.025	1.202	1.084	1.214	1.172	8.3				
Cyclohexane	1.262	1.098	0.863	1.009	0.915	1.024	1.029	13.8				
2-Butanone	0.251	0.217	0.186	0.222	0.201	0.211	0.215	10.2				
Carbon Tetrachloride	0.525	0.505	0.446	0.527	0.495	0.559	0.510	7.5				
cis-1,2-Dichloroethene	0.777	0.766	0.628	0.740	0.669	0.749	0.721	8.2				
Bromochloromethane	0.607	0.470	0.502	0.529	0.483	0.504	0.516	9.5				
Chloroform	1.318	1.238	1.055	1.225	1.102	1.229	1.195	8.1				
1,1,1-Trichloroethane	1.118	1.091	0.915	1.067	0.978	1.112	1.047	7.9				
Methylcyclohexane	0.629	0.584	0.512	0.629	0.581	0.658	0.599	8.6				
Benzene	1.512	1.474	1.283	1.488	1.361	1.514	1.439	6.6				
1,2-Dichloroethane	0.448	0.399	0.368	0.430	0.398	0.436	0.413	7.3				
Trichloroethene	0.381	0.340	0.300	0.366	0.333	0.370	0.348	8.7				
1,2-Dichloropropane	0.390	0.375	0.322	0.366	0.337	0.371	0.360	7.1				
Bromodichloromethane	0.549	0.524	0.456	0.543	0.501	0.560	0.522	7.4				
4-Methyl-2-Pentanone	0.281	0.247	0.220	0.269	0.254	0.275	0.258	8.7				
Toluene	0.930	0.892	0.800	0.940	0.866	0.960	0.898	6.5				

* 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.



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.: P4471 SAS No.: P4471 SDG No.: P4471
 Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY019827.D		RRF010 = VY019828.D		RRF020 = VY019829.D			
		RRF050 = VY019830.D		RRF100 = VY019831.D		RRF150 = VY019832.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.477	0.448	0.408	0.497	0.464	0.524	0.470	8.6	
cis-1,3-Dichloropropene	0.577	0.537	0.489	0.579	0.542	0.603	0.554	7.3	
1,1,2-Trichloroethane	0.280	0.257	0.230	0.269	0.248	0.271	0.259	6.9	
2-Hexanone	0.193	0.173	0.160	0.197	0.185	0.197	0.184	8.1	
Dibromochloromethane	0.348	0.317	0.294	0.344	0.328	0.364	0.333	7.5	
1,2-Dibromoethane	0.244	0.234	0.207	0.246	0.226	0.248	0.234	6.7	
Tetrachloroethene	0.379	0.366	0.316	0.368	0.328	0.377	0.356	7.6	
Chlorobenzene	1.226	1.167	1.032	1.171	1.064	1.202	1.144	6.8	
Ethyl Benzene	2.177	2.100	1.861	2.164	1.953	2.209	2.077	6.7	
m/p-Xylenes	0.802	0.781	0.691	0.796	0.720	0.813	0.767	6.5	
o-Xylene	0.750	0.756	0.665	0.769	0.700	0.783	0.737	6.1	
Styrene	1.276	1.238	1.120	1.304	1.191	1.333	1.244	6.3	
Bromoform	0.208	0.198	0.180	0.220	0.204	0.232	0.207	8.7	
Isopropylbenzene	4.420	4.371	3.794	4.268	3.912	4.470	4.206	6.7	
1,1,2,2-Tetrachloroethane	0.796	0.737	0.664	0.763	0.719	0.805	0.747	7	
1,3-Dichlorobenzene	1.968	1.892	1.598	1.819	1.651	1.887	1.802	8.1	
1,4-Dichlorobenzene	1.928	1.831	1.572	1.801	1.635	1.856	1.771	7.8	
1,2-Dichlorobenzene	1.716	1.620	1.416	1.612	1.474	1.663	1.584	7.3	
1,2-Dibromo-3-Chloropropane	0.133	0.115	0.100	0.121	0.118	0.129	0.119	9.7	
1,2,4-Trichlorobenzene	0.860	0.832	0.758	0.965	0.886	1.027	0.888	10.8	
1,2,3-Trichlorobenzene	0.716	0.698	0.634	0.823	0.761	0.872	0.751	11.5	
1,2-Dichloroethane-d4	0.701	0.656	0.566	0.581	0.583	0.607	0.616	8.5	
Dibromofluoromethane	0.356	0.335	0.300	0.321	0.326	0.341	0.330	5.8	
Toluene-d8	1.299	1.254	1.134	1.185	1.191	1.246	1.218	4.9	
4-Bromofluorobenzene	0.498	0.438	0.402	0.426	0.427	0.450	0.440	7.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y100924S.M
 Title : SW846 8260
 Last Update : Thu Oct 10 05:30:07 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY019827.D 10 =VY019828.D 20 =VY019829.D 50 =VY019830.D 100 =VY019831.D 150 =VY019832.D

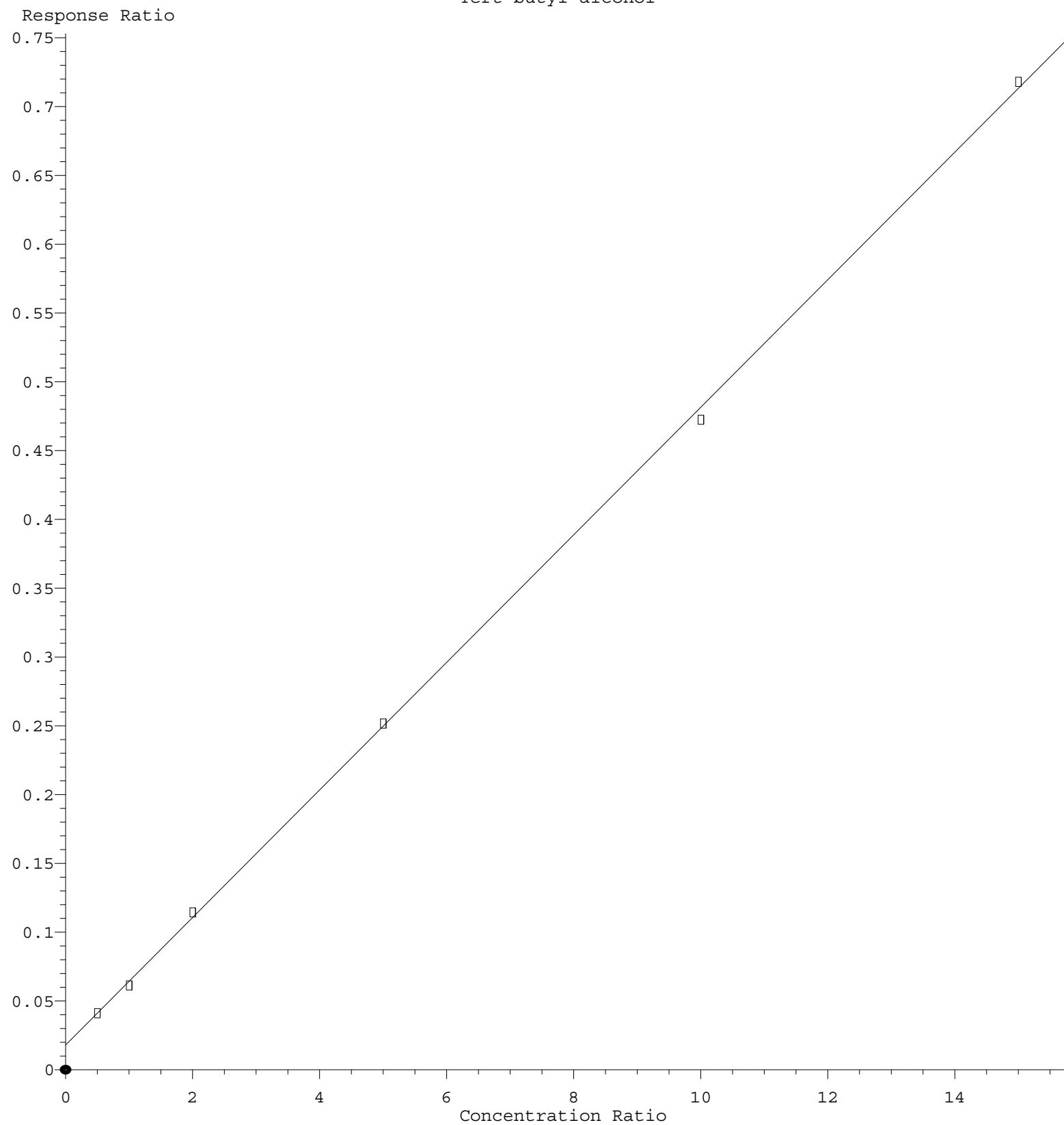
	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.07
3) P	Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.80
4) C	Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8.02#
5) T	Bromomethane	0.458	0.447	0.357	0.433	0.390	0.447	0.422	9.42
6) T	Chloroethane	0.493	0.469	0.390	0.456	0.408	0.472	0.448	8.94
7) T	Trichlorofluor...	1.101	1.016	0.868	1.000	0.915	1.051	0.992	8.69
8) T	Diethyl Ether	0.317	0.304	0.268	0.314	0.284	0.322	0.301	6.96
9) T	1,1,2-Trichlor...	0.619	0.611	0.509	0.581	0.535	0.606	0.577	7.82
10) T	Methyl Iodide	0.569	0.584	0.518	0.633	0.569	0.628	0.584	7.29
11) T	Tert butyl alc...	0.082	0.061	0.057	0.050	0.047	0.048	0.058	22.92
12) CM	1,1-Dichloroet...	0.588	0.558	0.453	0.550	0.499	0.570	0.536	9.39#
13) T	Acrolein	0.061	0.049	0.046	0.040	0.036	0.040	0.045	19.69
14) T	Allyl chloride	1.054	0.975	0.843	1.011	0.902	1.022	0.968	8.28
15) T	Acrylonitrile	0.154	0.136	0.119	0.143	0.132	0.143	0.138	8.58
16) T	Acetone	0.196	0.156	0.134	0.170	0.152	0.153	0.160	12.95
17) T	Carbon Disulfide	1.501	1.392	1.193	1.552	1.404	1.586	1.438	9.95
18) T	Methyl Acetate	0.393	0.334	0.301	0.350	0.321	0.372	0.345	9.74
19) T	Methyl tert-bu...	1.719	1.559	1.334	1.574	1.443	1.617	1.541	8.78
20) T	Methylene Chlo...	0.869	0.695	0.551	0.619	0.543	0.603	0.647	18.87
21) T	trans-1,2-Dich...	0.630	0.597	0.511	0.605	0.547	0.612	0.584	7.74
22) T	Diisopropyl ether	2.286	2.223	1.874	2.166	1.942	2.159	2.108	7.75
23) T	Vinyl Acetate	1.289	1.218	1.042	1.275	1.161	1.266	1.209	7.78
24) P	1,1-Dichloroet...	1.288	1.219	1.025	1.202	1.084	1.214	1.172	8.33
25) T	2-Butanone	0.251	0.217	0.186	0.222	0.201	0.211	0.215	10.18
26) T	2,2-Dichloropr...	1.228	1.071	0.911	1.045	0.945	1.062	1.044	10.70
27) T	cis-1,2-Dichlo...	0.777	0.766	0.628	0.740	0.669	0.749	0.721	8.23
28) T	Bromochloromet...	0.607	0.470	0.502	0.529	0.483	0.504	0.516	9.47
29) T	Tetrahydrofuran	0.140	0.120	0.105	0.128	0.118	0.125	0.122	9.65
30) C	Chloroform	1.318	1.238	1.055	1.225	1.102	1.229	1.195	8.14#
31) T	Cyclohexane	1.262	1.098	0.863	1.009	0.915	1.024	1.029	13.76
32) T	1,1,1-Trichlor...	1.118	1.091	0.915	1.067	0.978	1.112	1.047	7.85
33) S	1,2-Dichloroet...	0.701	0.656	0.566	0.581	0.583	0.607	0.616	8.48
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.356	0.335	0.300	0.321	0.326	0.341	0.330	5.77
36) T	1,1-Dichloropr...	0.514	0.464	0.415	0.496	0.455	0.509	0.475	7.98
37) T	Ethyl Acetate	0.270	0.238	0.217	0.258	0.247	0.258	0.248	7.60
38) T	Carbon Tetrach...	0.525	0.505	0.446	0.527	0.495	0.559	0.510	7.54
39) T	Methylcyclohexane	0.629	0.584	0.512	0.629	0.581	0.658	0.599	8.64
40) TM	Benzene	1.512	1.474	1.283	1.488	1.361	1.514	1.439	6.58
41) T	Methacrylonitrile	0.126	0.120	0.123	0.156	0.129	0.151	0.134	11.38
42) TM	1,2-Dichloroet...	0.448	0.399	0.368	0.430	0.398	0.436	0.413	7.28
43) T	Isopropyl Acetate	0.547	0.491	0.436	0.524	0.496	0.538	0.505	8.05
44) TM	Trichloroethene	0.381	0.340	0.300	0.366	0.333	0.370	0.348	8.65
45) C	1,2-Dichloropr...	0.390	0.375	0.321	0.366	0.337	0.371	0.360	7.13#
46) T	Dibromomethane	0.220	0.190	0.174	0.204	0.188	0.205	0.197	8.23
47) T	Bromodichlorom...	0.549	0.524	0.456	0.543	0.501	0.560	0.522	7.36
48) T	Methyl methacr...	0.221	0.201	0.189	0.237	0.228	0.258	0.222	11.21
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.76
50) S	Toluene-d8	1.299	1.254	1.134	1.185	1.191	1.246	1.218	4.86
51) T	4-Methyl-2-Pen...	0.281	0.247	0.220	0.269	0.254	0.275	0.258	8.66
52) CM	Toluene	0.930	0.892	0.800	0.940	0.866	0.960	0.898	6.54#
53) T	t-1,3-Dichloro...	0.477	0.448	0.408	0.497	0.464	0.524	0.470	8.55
54) T	cis-1,3-Dichlo...	0.577	0.537	0.489	0.579	0.542	0.603	0.554	7.30
55) T	1,1,2-Trichlor...	0.280	0.257	0.230	0.269	0.248	0.271	0.259	6.93
56) T	Ethyl methacry...	0.376	0.330	0.316	0.403	0.381	0.426	0.372	11.38

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y100924S.M

57)	T	1,3-Dichloropr...	0.481	0.460	0.400	0.474	0.439	0.476	0.455	6.77
58)	T	2-Chloroethyl ...	0.179	0.168	0.164	0.171	0.176	0.182	0.173	4.02
59)	T	2-Hexanone	0.193	0.173	0.160	0.197	0.185	0.197	0.184	8.12
60)	T	Dibromochlorom...	0.348	0.317	0.294	0.344	0.328	0.364	0.333	7.47
61)	T	1,2-Dibromoethane	0.244	0.234	0.207	0.246	0.226	0.248	0.234	6.70
62)	S	4-Bromofluorob...	0.498	0.438	0.402	0.426	0.427	0.450	0.440	7.41
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.379	0.366	0.316	0.368	0.328	0.377	0.356	7.55
65)	PM	Chlorobenzene	1.226	1.167	1.032	1.171	1.064	1.202	1.144	6.79
66)	T	1,1,1,2-Tetrac...	0.409	0.386	0.350	0.398	0.366	0.414	0.387	6.47
67)	C	Ethyl Benzene	2.177	2.100	1.861	2.164	1.953	2.209	2.077	6.73#
68)	T	m/p-Xylenes	0.802	0.781	0.691	0.796	0.720	0.813	0.767	6.47
69)	T	o-Xylene	0.750	0.756	0.665	0.769	0.700	0.783	0.737	6.15
70)	T	Styrene	1.276	1.238	1.120	1.304	1.191	1.333	1.244	6.30
71)	P	Bromoform	0.208	0.198	0.180	0.220	0.204	0.232	0.207	8.74
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.420	4.371	3.794	4.268	3.912	4.470	4.206	6.75
74)	T	N-amyl acetate	1.098	1.055	0.965	1.174	1.123	1.269	1.114	9.30
75)	P	1,1,2,2-Tetrac...	0.796	0.737	0.664	0.763	0.719	0.805	0.747	7.05
76)	T	1,2,3-Trichlor...	0.596	0.495	0.526	0.507	0.478	0.523	0.521	7.84
77)	T	Bromobenzene	0.945	0.920	0.784	0.913	0.841	0.952	0.892	7.41
78)	T	n-propylbenzene	5.289	5.250	4.615	5.213	4.752	5.371	5.082	6.22
79)	T	2-Chlorotoluene	3.136	3.010	2.606	2.975	2.688	3.066	2.913	7.39
80)	T	1,3,5-Trimethy...	3.576	3.494	3.067	3.470	3.180	3.593	3.396	6.47
81)	T	trans-1,4-Dich...	0.244	0.233	0.206	0.251	0.242	0.280	0.243	10.01
82)	T	4-Chlorotoluene	3.184	3.129	2.650	3.029	2.749	3.132	2.979	7.53
83)	T	tert-Butylbenzene	3.236	3.178	2.709	3.100	2.829	3.204	3.043	7.22
84)	T	1,2,4-Trimethy...	3.532	3.450	3.024	3.466	3.155	3.578	3.367	6.66
85)	T	sec-Butylbenzene	4.798	4.743	4.008	4.719	4.218	4.791	4.546	7.55
86)	T	p-Isopropyltol...	3.923	3.757	3.275	3.810	3.460	3.923	3.691	7.19
87)	T	1,3-Dichlorobe...	1.968	1.892	1.598	1.819	1.651	1.887	1.802	8.15
88)	T	1,4-Dichlorobe...	1.928	1.831	1.572	1.801	1.635	1.856	1.771	7.77
89)	T	n-Butylbenzene	3.608	3.686	3.180	3.827	3.415	3.912	3.605	7.51
90)	T	Hexachloroethane	0.730	0.732	0.616	0.739	0.692	0.804	0.719	8.62
91)	T	1,2-Dichlorobe...	1.716	1.620	1.416	1.612	1.474	1.663	1.584	7.26
92)	T	1,2-Dibromo-3-...	0.133	0.115	0.100	0.121	0.118	0.129	0.119	9.66
93)	T	1,2,4-Trichlor...	0.860	0.832	0.758	0.965	0.886	1.027	0.888	10.80
94)	T	Hexachlorobuta...	0.502	0.489	0.423	0.529	0.472	0.548	0.494	8.97
95)	T	Naphthalene	1.486	1.440	1.390	1.845	1.806	2.082	1.675	16.55
96)	T	1,2,3-Trichlor...	0.716	0.698	0.634	0.823	0.761	0.872	0.751	11.53

(#) = Out of Range

Tert butyl alcohol



Response = $4.638 \times 10^{-2} \times \text{Amt} + 1.751 \times 10^{-2}$
Coef of Det (r^2) = 0.999639 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y100924S.M
Calibration Table Last Updated: Thu Oct 10 05:30:07 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019827.D
 Acq On : 09 Oct 2024 10:18
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Romaben
 Patel

10/10/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Oct 10 05:15:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	374343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	666511	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	557182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	257354	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	26224	5.689	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	11.380%#
35) Dibromofluoromethane	7.640	113	23731	5.396	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	10.800%#
50) Toluene-d8	10.103	98	86603	5.332	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	10.660%#
62) 4-Bromofluorobenzene	12.402	95	33223	5.661	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	11.320%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	18708	5.368	ug/l	98
3) Chloromethane	2.074	50	24088	5.311	ug/l	99
4) Vinyl Chloride	2.208	62	26464	5.302	ug/l	96
5) Bromomethane	2.605	94	17128	5.422	ug/l	96
6) Chloroethane	2.739	64	18439	5.499	ug/l	97
7) Trichlorofluoromethane	3.062	101	41227	5.551	ug/l	91
8) Diethyl Ether	3.452	74	11854	5.252	ug/l	85
9) 1,1,2-Trichlorotrifluo...	3.824	101	23186	5.367	ug/l	99
10) Methyl Iodide	4.001	142	21313	4.878	ug/l	97
11) Tert butyl alcohol	4.860	59	15386	25.435	ug/l #	86
12) 1,1-Dichloroethene	3.793	96	21994	5.477	ug/l	96
13) Acrolein	3.653	56	11407	33.680	ug/l	99
14) Allyl chloride	4.385	41	39466	5.447	ug/l	100
15) Acrylonitrile	5.061	53	28849	27.944	ug/l	97
16) Acetone	3.873	43	36615	30.516	ug/l	92
17) Carbon Disulfide	4.110	76	56179	5.219	ug/l	97
18) Methyl Acetate	4.391	43	14714	5.693	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	64344	5.577	ug/l	93
20) Methylene Chloride	4.616	84	32544	6.721	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	23585	5.396	ug/l	93
22) Diisopropyl ether	6.019	45	85560	5.421	ug/l #	90
23) Vinyl Acetate	5.964	43	241204	26.658	ug/l	99
24) 1,1-Dichloroethane	5.921	63	48212	5.495	ug/l	99
25) 2-Butanone	6.896	43	46904	29.204	ug/l	96
26) 2,2-Dichloropropane	6.884	77	45964	5.883	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	29094	5.386	ug/l	96
28) Bromochloromethane	7.250	49	22704	5.879	ug/l	94
29) Tetrahydrofuran	7.262	42	26280	28.658	ug/l	97
30) Chloroform	7.421	83	49340	5.517	ug/l	99
31) Cyclohexane	7.701	56	47253	6.136	ug/l #	85
32) 1,1,1-Trichloroethane	7.616	97	41860	5.341	ug/l	97
36) 1,1-Dichloropropene	7.835	75	34242	5.404	ug/l	99
37) Ethyl Acetate	6.988	43	17987	5.444	ug/l	96
38) Carbon Tetrachloride	7.817	117	35007	5.153	ug/l	98
39) Methylcyclohexane	9.109	83	41950	5.254	ug/l	96
40) Benzene	8.079	78	100750	5.254	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019827.D
 Acq On : 09 Oct 2024 10:18
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Romaben
 Patel

10/10/2024

Supervised By :Mahesh
 Dadoda

10/10/2024

Quant Time: Oct 10 05:15:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	8419	4.708	ug/l #	81
42) 1,2-Dichloroethane	8.158	62	29850	5.418	ug/l	99
43) Isopropyl Acetate	8.195	43	36465	5.412	ug/l #	88
44) Trichloroethene	8.866	130	25386	5.466	ug/l	88
45) 1,2-Dichloropropane	9.140	63	26001	5.417	ug/l	94
46) Dibromomethane	9.231	93	14664	5.592	ug/l	95
47) Bromodichloromethane	9.420	83	36601	5.258	ug/l	97
48) Methyl methacrylate	9.225	41	14711	4.963	ug/l	92
49) 1,4-Dioxane	9.231	88	2943	100.270	ug/l #	74
51) 4-Methyl-2-Pentanone	10.000	43	93808	27.294	ug/l	97
52) Toluene	10.170	92	62004	5.180	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	31813	5.080	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	38450	5.203	ug/l	94
55) 1,1,2-Trichloroethane	10.573	97	18629	5.392	ug/l	94
56) Ethyl methacrylate	10.438	69	25028	5.048	ug/l	97
57) 1,3-Dichloropropane	10.719	76	32075	5.286	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	59794	25.908	ug/l	100
59) 2-Hexanone	10.762	43	64389	26.230	ug/l	99
60) Dibromochloromethane	10.908	129	23206	5.233	ug/l	98
61) 1,2-Dibromoethane	11.012	107	16281	5.215	ug/l	94
64) Tetrachloroethene	10.646	164	21107	5.326	ug/l	95
65) Chlorobenzene	11.438	112	68313	5.360	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	22770	5.281	ug/l	97
67) Ethyl Benzene	11.518	91	121323	5.241	ug/l	95
68) m/p-Xylenes	11.627	106	89333	10.448	ug/l	100
69) o-Xylene	11.950	106	41807	5.089	ug/l	97
70) Styrene	11.969	104	71087	5.129	ug/l	98
71) Bromoform	12.127	173	11616	5.032	ug/l #	96
73) Isopropylbenzene	12.255	105	113742	5.254	ug/l	99
74) N-amyl acetate	12.066	43	28262	4.929	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	20484	5.326	ug/l	92
76) 1,2,3-Trichloropropane	12.554	75	15329m	5.735	ug/l	
77) Bromobenzene	12.530	156	24308	5.292	ug/l	99
78) n-propylbenzene	12.591	91	136112	5.204	ug/l	100
79) 2-Chlorotoluene	12.676	91	80713	5.383	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	92022	5.264	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	6271	5.021	ug/l	97
82) 4-Chlorotoluene	12.773	91	81942	5.344	ug/l	100
83) tert-Butylbenzene	12.993	119	83271	5.317	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	90896	5.244	ug/l	99
85) sec-Butylbenzene	13.170	105	123488	5.278	ug/l	99
86) p-Isopropyltoluene	13.292	119	100964	5.314	ug/l	97
87) 1,3-Dichlorobenzene	13.286	146	50645	5.459	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	49614	5.444	ug/l	93
89) n-Butylbenzene	13.615	91	92858	5.005	ug/l	97
90) Hexachloroethane	13.883	117	18792	5.079	ug/l	95
91) 1,2-Dichlorobenzene	13.657	146	44165	5.418	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3426	5.581	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	22142	4.845	ug/l	97
94) Hexachlorobutadiene	15.023	225	12910	5.081	ug/l	98
95) Naphthalene	15.145	128	38238	4.436	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	18432	4.771	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019827.D
Acq On : 09 Oct 2024 10:18
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 10 05:15:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben
Patel

10/10/2024
Supervised By :Mahesh
Dadoda

10/10/2024

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019827.D
Acq On : 09 Oct 2024 10:18
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

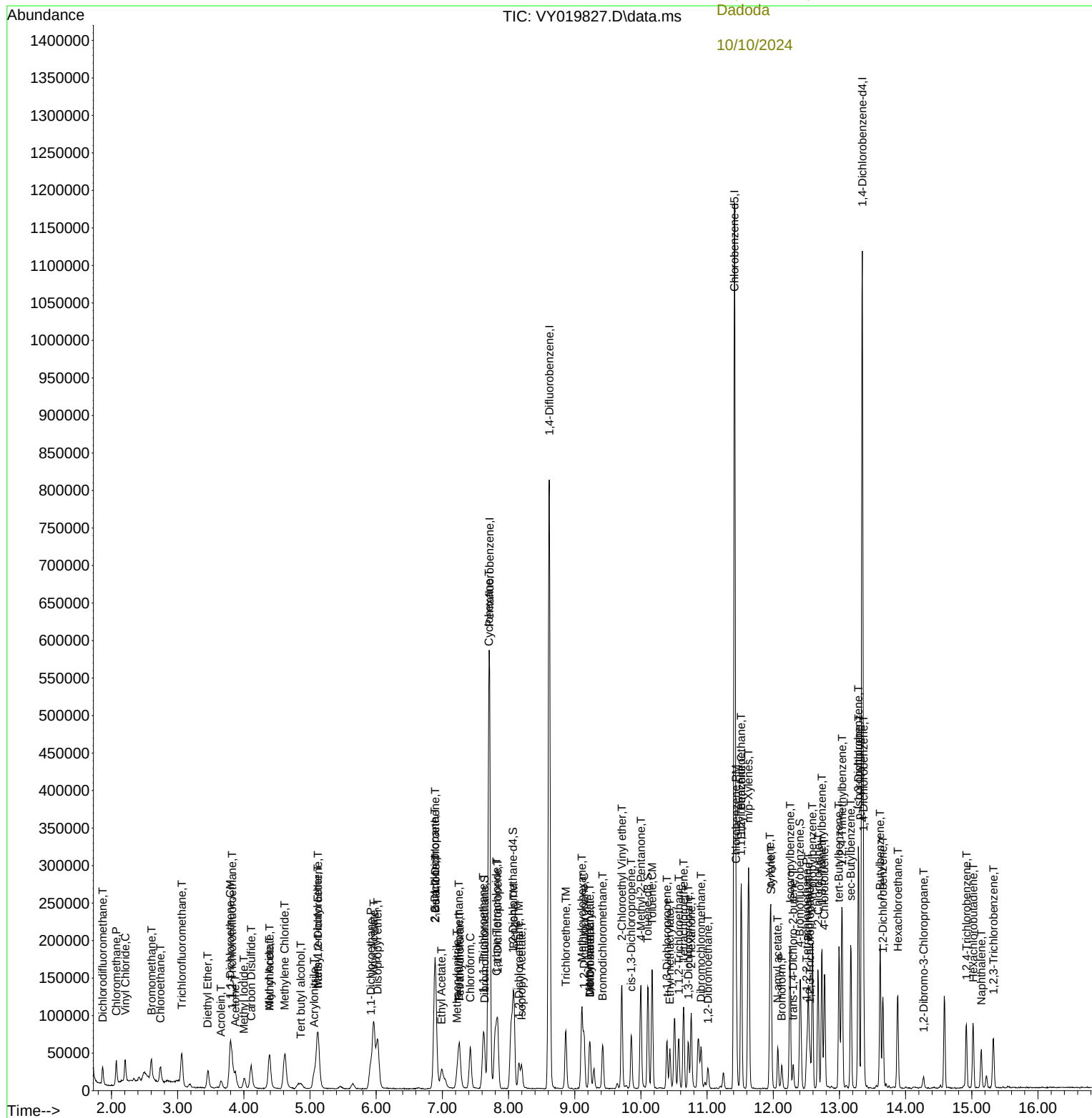
Manual Integrations APPROVED

Reviewed By :Romaben Pate|

10/10/2024
Supervised By :Mahesh
Dadoda

10/10/2024

Quant Time: Oct 10 05:15:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019828.D
 Acq On : 09 Oct 2024 10:41
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	361756	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	649579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	541498	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	250102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	47466	10.656	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	21.320%#		
35) Dibromofluoromethane	7.640	113	43577	10.166	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.340%#		
50) Toluene-d8	10.103	98	162940	10.293	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.580%#		
62) 4-Bromofluorobenzene	12.401	95	56875	9.944	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	19.880%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	36061	10.708	ug/l	93
3) Chloromethane	2.068	50	46110	10.520	ug/l	95
4) Vinyl Chloride	2.208	62	49569	10.277	ug/l	97
5) Bromomethane	2.598	94	32366	10.602	ug/l	96
6) Chloroethane	2.738	64	33901	10.462	ug/l	99
7) Trichlorofluoromethane	3.062	101	73540	10.247	ug/l	97
8) Diethyl Ether	3.458	74	21982	10.078	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	44208	10.590	ug/l	99
10) Methyl Iodide	4.007	142	42256	10.008	ug/l	98
11) Tert butyl alcohol	4.854	59	22157	47.157	ug/l #	93
12) 1,1-Dichloroethene	3.793	96	40380	10.405	ug/l	100
13) Acrolein	3.659	56	17589	53.740	ug/l	97
14) Allyl chloride	4.385	41	70509	10.069	ug/l	98
15) Acrylonitrile	5.061	53	49104	49.218	ug/l #	87
16) Acetone	3.872	43	56442	48.677	ug/l	95
17) Carbon Disulfide	4.104	76	100680	9.679	ug/l	95
18) Methyl Acetate	4.385	43	24175	9.678	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	112810	10.118	ug/l	97
20) Methylene Chloride	4.616	84	50288	10.746	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	43174	10.221	ug/l	90
22) Diisopropyl ether	6.024	45	160865	10.547	ug/l	96
23) Vinyl Acetate	5.964	43	440610	50.390	ug/l	99
24) 1,1-Dichloroethane	5.915	63	88167	10.399	ug/l	98
25) 2-Butanone	6.896	43	78586	50.633	ug/l	97
26) 2,2-Dichloropropane	6.884	77	77467	10.260	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	55404	10.614	ug/l	98
28) Bromochloromethane	7.244	49	34014	9.115	ug/l	99
29) Tetrahydrofuran	7.268	42	43254	48.809	ug/l	98
30) Chloroform	7.421	83	89550	10.361	ug/l	95
31) Cyclohexane	7.701	56	79459	10.676	ug/l #	93
32) 1,1,1-Trichloroethane	7.622	97	78955	10.424	ug/l	98
36) 1,1-Dichloropropene	7.835	75	60218	9.751	ug/l	97
37) Ethyl Acetate	6.982	43	30870	9.587	ug/l	98
38) Carbon Tetrachloride	7.817	117	65606	9.910	ug/l	95
39) Methylcyclohexane	9.103	83	75887	9.753	ug/l	95
40) Benzene	8.079	78	191485	10.246	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019828.D
 Acq On : 09 Oct 2024 10:41
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	15599	8.950	ug/l #	86
42) 1,2-Dichloroethane	8.158	62	51825	9.652	ug/l	99
43) Isopropyl Acetate	8.201	43	63799	9.715	ug/l	98
44) Trichloroethene	8.865	130	44163	9.756	ug/l	88
45) 1,2-Dichloropropane	9.140	63	48706	10.412	ug/l	96
46) Dibromomethane	9.231	93	24667	9.651	ug/l	98
47) Bromodichloromethane	9.420	83	68101	10.039	ug/l	99
48) Methyl methacrylate	9.219	41	26161	9.056	ug/l	98
49) 1,4-Dioxane	9.225	88	5712	199.684	ug/l	93
51) 4-Methyl-2-Pentanone	9.999	43	160710	47.978	ug/l	99
52) Toluene	10.170	92	115871	9.932	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	58244	9.542	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	69712	9.679	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	33430	9.928	ug/l	98
56) Ethyl methacrylate	10.438	69	42834	8.865	ug/l	94
57) 1,3-Dichloropropane	10.713	76	59776	10.109	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	108860	48.397	ug/l	98
59) 2-Hexanone	10.761	43	112424	46.991	ug/l	100
60) Dibromochloromethane	10.908	129	41215	9.536	ug/l	99
61) 1,2-Dibromoethane	11.011	107	30363	9.978	ug/l	99
64) Tetrachloroethene	10.646	164	39617	10.286	ug/l	95
65) Chlorobenzene	11.438	112	126362	10.203	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	41840	9.985	ug/l	99
67) Ethyl Benzene	11.517	91	227448	10.109	ug/l	98
68) m/p-Xylenes	11.627	106	169252	20.369	ug/l	99
69) o-Xylene	11.950	106	81860	10.254	ug/l	98
70) Styrene	11.969	104	134039	9.951	ug/l	99
71) Bromoform	12.127	173	21482	9.576	ug/l #	99
73) Isopropylbenzene	12.249	105	218641	10.393	ug/l	100
74) N-amyl acetate	12.066	43	52756	9.468	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	36874	9.865	ug/l	95
76) 1,2,3-Trichloropropane	12.554	75	24777m	9.539	ug/l	
77) Bromobenzene	12.529	156	46028	10.311	ug/l	97
78) n-propylbenzene	12.590	91	262629	10.332	ug/l	100
79) 2-Chlorotoluene	12.676	91	150549	10.331	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	174773	10.287	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	11638	9.588	ug/l	96
82) 4-Chlorotoluene	12.773	91	156522	10.504	ug/l	98
83) tert-Butylbenzene	12.993	119	158944	10.443	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	172551	10.244	ug/l	99
85) sec-Butylbenzene	13.170	105	237239	10.433	ug/l	98
86) p-Isopropyltoluene	13.285	119	187930	10.178	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	94640	10.498	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	91597	10.342	ug/l	97
89) n-Butylbenzene	13.615	91	184390	10.227	ug/l	99
90) Hexachloroethane	13.877	117	36632	10.188	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	81041	10.231	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	5750	9.639	ug/l	91
93) 1,2,4-Trichlorobenzene	14.913	180	41597	9.365	ug/l	98
94) Hexachlorobutadiene	15.023	225	24452	9.902	ug/l	98
95) Naphthalene	15.139	128	72035	8.599	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	34928	9.303	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019828.D
Acq On : 09 Oct 2024 10:41
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

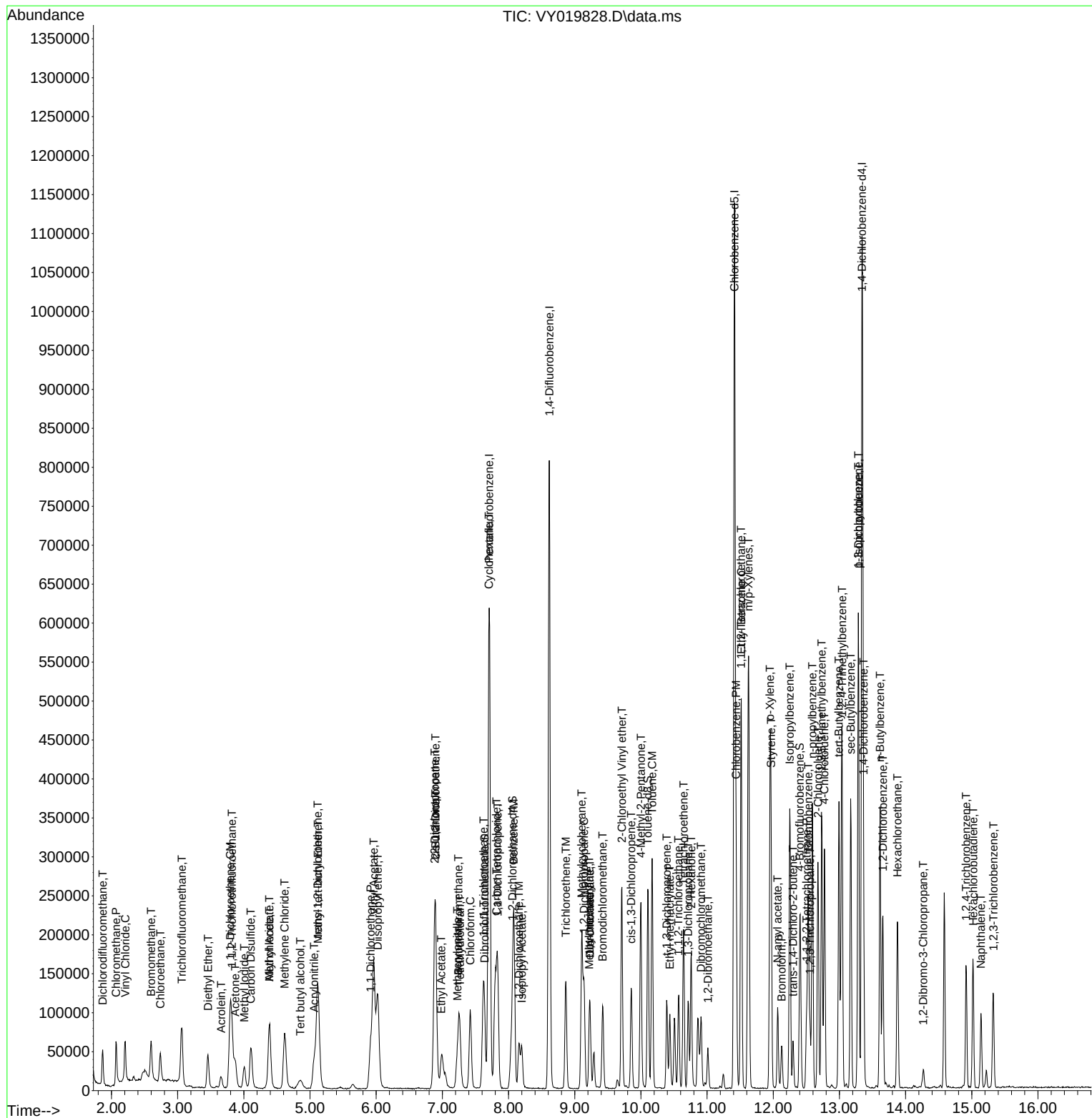
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\  
Data File : VY019828.D  
Acq On    : 09 Oct 2024 10:41  
Operator  : SY/MD  
Sample    : VSTDICC010  
Misc      : 5.00g/5.0mL/MSVOA_Y/SOIL  
ALS Vial  : 3 Sample Multiplier: 1
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Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019829.D
 Acq On : 09 Oct 2024 11:04
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	399493	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	686198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	579144	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	274774	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	90500	18.398	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	36.800%#	
35) Dibromofluoromethane	7.634	113	82440	18.206	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	36.420%#	
50) Toluene-d8	10.103	98	311327	18.618	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	37.240%#	
62) 4-Bromofluorobenzene	12.401	95	110377	18.268	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	36.540%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	65577	17.633	ug/l	99
3) Chloromethane	2.068	50	82646	17.075	ug/l	93
4) Vinyl Chloride	2.208	62	92581	17.381	ug/l	96
5) Bromomethane	2.592	94	57060	16.925	ug/l	90
6) Chloroethane	2.732	64	62255	17.398	ug/l	99
7) Trichlorofluoromethane	3.056	101	138779	17.510	ug/l	99
8) Diethyl Ether	3.458	74	42857	17.792	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	81370	17.650	ug/l	100
10) Methyl Iodide	4.000	142	82834	17.766	ug/l	99
11) Tert butyl alcohol	4.854	59	45691	104.433	ug/l #	82
12) 1,1-Dichloroethene	3.793	96	72442	16.903	ug/l	94
13) Acrolein	3.653	56	36692	101.515	ug/l	98
14) Allyl chloride	4.385	41	134749	17.426	ug/l	100
15) Acrylonitrile	5.061	53	95289	86.488	ug/l	99
16) Acetone	3.872	43	107331	83.821	ug/l	96
17) Carbon Disulfide	4.104	76	190574	16.590	ug/l	100
18) Methyl Acetate	4.391	43	48137	17.451	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	213153	17.312	ug/l	98
20) Methylene Chloride	4.616	84	88015	17.032	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	81678	17.511	ug/l	97
22) Diisopropyl ether	6.018	45	299406	17.776	ug/l	94
23) Vinyl Acetate	5.964	43	832605	86.226	ug/l	99
24) 1,1-Dichloroethane	5.915	63	163823	17.497	ug/l	98
25) 2-Butanone	6.890	43	148441	86.607	ug/l	99
26) 2,2-Dichloropropane	6.884	77	145596	17.461	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	100404	17.418	ug/l	98
28) Bromochloromethane	7.244	49	80239	19.470	ug/l	99
29) Tetrahydrofuran	7.262	42	83724	85.552	ug/l	100
30) Chloroform	7.421	83	168532	17.658	ug/l	93
31) Cyclohexane	7.701	56	137858	16.773	ug/l #	95
32) 1,1,1-Trichloroethane	7.622	97	146196	17.478	ug/l	99
36) 1,1-Dichloropropene	7.835	75	113949	17.467	ug/l	99
37) Ethyl Acetate	6.982	43	59463	17.481	ug/l	98
38) Carbon Tetrachloride	7.817	117	122286	17.486	ug/l	98
39) Methylcyclohexane	9.109	83	140509	17.094	ug/l	95
40) Benzene	8.079	78	352281	17.843	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019829.D
 Acq On : 09 Oct 2024 11:04
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	33626	18.264	ug/l	94
42) 1,2-Dichloroethane	8.158	62	100933	17.795	ug/l	100
43) Isopropyl Acetate	8.195	43	119654	17.248	ug/l	100
44) Trichloroethene	8.865	130	82242	17.199	ug/l	98
45) 1,2-Dichloropropane	9.140	63	88245	17.858	ug/l	97
46) Dibromomethane	9.231	93	47694	17.665	ug/l	99
47) Bromodichloromethane	9.420	83	125156	17.464	ug/l	99
48) Methyl methacrylate	9.219	41	51848	16.991	ug/l	97
49) 1,4-Dioxane	9.225	88	10924	361.508	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	302570	85.508	ug/l	100
52) Toluene	10.170	92	219564	17.816	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	112037	17.376	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	134322	17.655	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	63230	17.776	ug/l	96
56) Ethyl methacrylate	10.438	69	86703	16.987	ug/l	99
57) 1,3-Dichloropropane	10.713	76	109903	17.594	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	224798	94.607	ug/l	99
59) 2-Hexanone	10.755	43	219312	86.777	ug/l	100
60) Dibromochloromethane	10.908	129	80781	17.693	ug/l	97
61) 1,2-Dibromoethane	11.011	107	56934	17.712	ug/l	99
64) Tetrachloroethene	10.646	164	73174	17.763	ug/l	95
65) Chlorobenzene	11.438	112	239056	18.047	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	81007	18.075	ug/l	99
67) Ethyl Benzene	11.517	91	431084	17.915	ug/l	99
68) m/p-Xylenes	11.627	106	320381	36.051	ug/l	99
69) o-Xylene	11.950	106	154055	18.042	ug/l	99
70) Styrene	11.969	104	259526	18.015	ug/l	99
71) Bromoform	12.127	173	41644	17.357	ug/l #	99
73) Isopropylbenzene	12.249	105	416954	18.041	ug/l	99
74) N-amyl acetate	12.066	43	106042	17.323	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	72967	17.768	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	57760m	20.240	ug/l	
77) Bromobenzene	12.529	156	86210	17.578	ug/l	99
78) n-propylbenzene	12.590	91	507193	18.161	ug/l	100
79) 2-Chlorotoluene	12.676	91	286378	17.887	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	337042	18.057	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	22618	16.960	ug/l	99
82) 4-Chlorotoluene	12.773	91	291230	17.790	ug/l	100
83) tert-Butylbenzene	12.993	119	297787	17.809	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	332348	17.959	ug/l	99
85) sec-Butylbenzene	13.170	105	440520	17.633	ug/l	100
86) p-Isopropyltoluene	13.285	119	359998	17.746	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	175584	17.728	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	172734	17.752	ug/l	98
89) n-Butylbenzene	13.615	91	349496	17.644	ug/l	100
90) Hexachloroethane	13.877	117	67690	17.136	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	155633	17.883	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11020	16.814	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	83360	17.083	ug/l	99
94) Hexachlorobutadiene	15.023	225	46439	17.117	ug/l	97
95) Naphthalene	15.139	128	152742	16.596	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	69691	16.894	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019829.D
Acq On : 09 Oct 2024 11:04
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

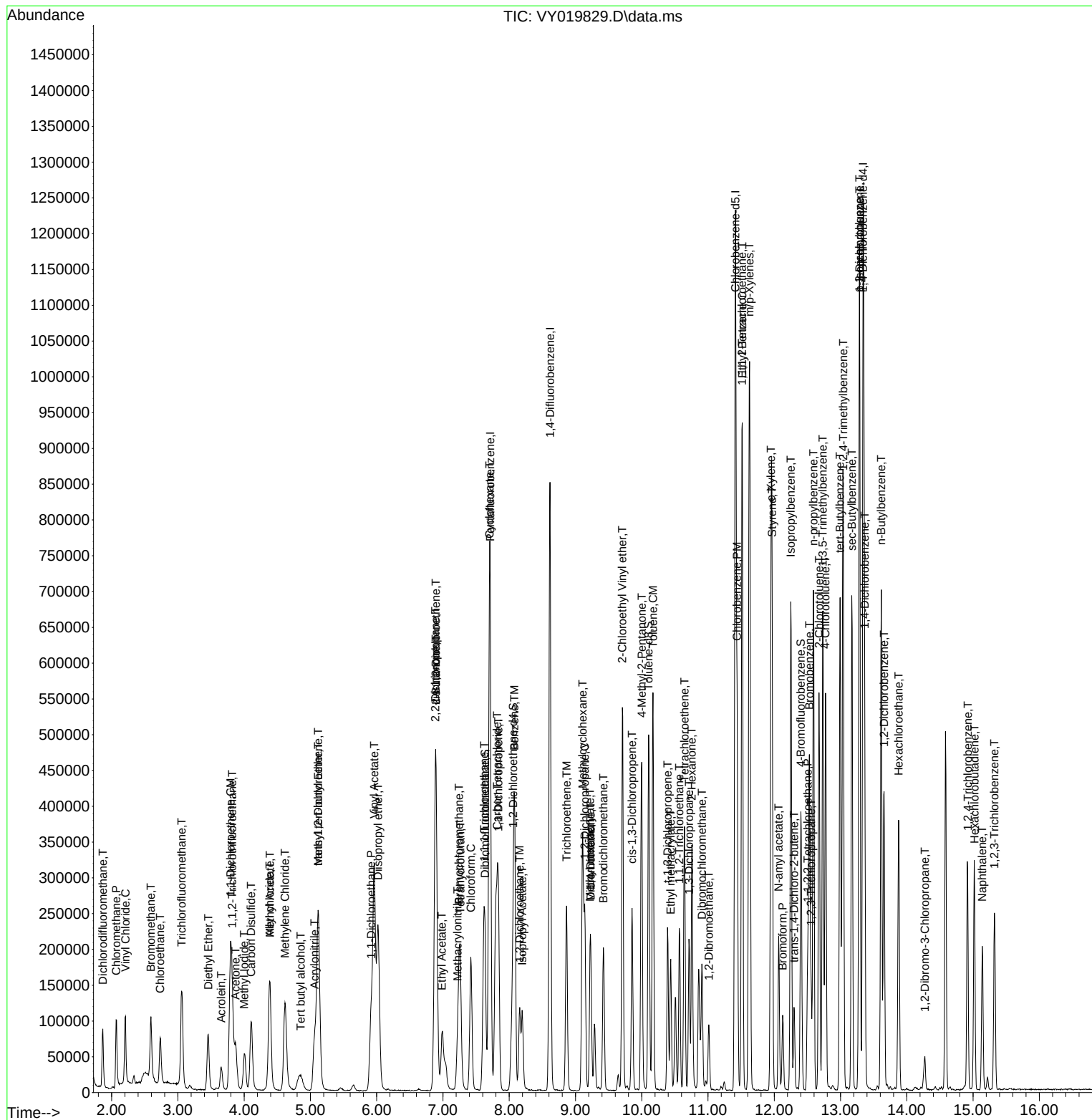
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Data File : VY019829.D
Acq On : 09 Oct 2024 11:04
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019830.D
 Acq On : 09 Oct 2024 11:26
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:17:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	376582	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	652229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	562284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	271955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	218635	47.152	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	94.300%		
35) Dibromofluoromethane	7.634	113	209339	48.638	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.280%		
50) Toluene-d8	10.103	98	772997	48.634	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.260%		
62) 4-Bromofluorobenzene	12.401	95	277970	48.402	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	96.800%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	172619	49.240	ug/l	100
3) Chloromethane	2.068	50	231921	50.830	ug/l	100
4) Vinyl Chloride	2.202	62	259124	51.608	ug/l	100
5) Bromomethane	2.598	94	163168	51.342	ug/l	100
6) Chloroethane	2.732	64	171731	50.912	ug/l	100
7) Trichlorofluoromethane	3.062	101	376466	50.389	ug/l	100
8) Diethyl Ether	3.458	74	118188	52.051	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	218828	50.355	ug/l	100
10) Methyl Iodide	4.007	142	238365	54.233	ug/l	100
11) Tert butyl alcohol	4.854	59	94744	252.374	ug/l	100
12) 1,1-Dichloroethene	3.793	96	206999	51.238	ug/l	100
13) Acrolein	3.653	56	75001	220.129	ug/l	100
14) Allyl chloride	4.385	41	380793	52.240	ug/l	100
15) Acrylonitrile	5.055	53	270020	259.992	ug/l	100
16) Acetone	3.866	43	320427	265.464	ug/l	100
17) Carbon Disulfide	4.110	76	584406	53.968	ug/l	100
18) Methyl Acetate	4.385	43	131986	50.760	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	592784	51.073	ug/l	100
20) Methylene Chloride	4.616	84	233261	47.884	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	228011	51.856	ug/l	100
22) Diisopropyl ether	6.024	45	815528	51.364	ug/l	100
23) Vinyl Acetate	5.964	43	2401557	263.841	ug/l	100
24) 1,1-Dichloroethane	5.921	63	452600	51.280	ug/l	100
25) 2-Butanone	6.896	43	417253	258.255	ug/l	100
26) 2,2-Dichloropropane	6.884	77	393618	50.078	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	278623	51.276	ug/l	100
28) Bromochloromethane	7.244	49	199378	51.324	ug/l	100
29) Tetrahydrofuran	7.256	42	240189	260.365	ug/l	100
30) Chloroform	7.421	83	461316	51.274	ug/l	100
31) Cyclohexane	7.701	56	380045	49.053	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	401679	50.944	ug/l	100
36) 1,1-Dichloropropene	7.835	75	323381	52.153	ug/l	100
37) Ethyl Acetate	6.982	43	168308	52.055	ug/l	100
38) Carbon Tetrachloride	7.817	117	343937	51.741	ug/l	100
39) Methylcyclohexane	9.109	83	410379	52.526	ug/l	100
40) Benzene	8.079	78	970532	51.718	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019830.D
 Acq On : 09 Oct 2024 11:26
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:17:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	101564	58.039	ug/l	100
42) 1,2-Dichloroethane	8.158	62	280666	52.060	ug/l	100
43) Isopropyl Acetate	8.195	43	341732	51.825	ug/l	100
44) Trichloroethene	8.865	130	238984	52.581	ug/l	100
45) 1,2-Dichloropropane	9.140	63	238678	50.815	ug/l	100
46) Dibromomethane	9.231	93	132799	51.749	ug/l	100
47) Bromodichloromethane	9.420	83	353916	51.958	ug/l	100
48) Methyl methacrylate	9.219	41	154785	53.365	ug/l	100
49) 1,4-Dioxane	9.225	88	30969	1078.234	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	877883	261.016	ug/l	100
52) Toluene	10.170	92	613036	52.335	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	324446	52.938	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	377341	52.179	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	175360	51.866	ug/l	100
56) Ethyl methacrylate	10.438	69	263123	54.236	ug/l	100
57) 1,3-Dichloropropane	10.713	76	309112	52.061	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	556812	246.542	ug/l	100
59) 2-Hexanone	10.755	43	641505	267.049	ug/l	100
60) Dibromochloromethane	10.908	129	224272	51.680	ug/l	100
61) 1,2-Dibromoethane	11.011	107	160393	52.497	ug/l	100
64) Tetrachloroethene	10.646	164	206807	51.709	ug/l	100
65) Chlorobenzene	11.438	112	658325	51.188	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	223562	51.379	ug/l	100
67) Ethyl Benzene	11.517	91	1216822	52.085	ug/l	100
68) m/p-Xylenes	11.627	106	895487	103.787	ug/l	100
69) o-Xylene	11.950	106	432232	52.139	ug/l	100
70) Styrene	11.969	104	733231	52.425	ug/l	100
71) Bromoform	12.127	173	123682	53.097	ug/l #	100
73) Isopropylbenzene	12.249	105	1160583	50.736	ug/l	100
74) N-amyl acetate	12.066	43	319155	52.678	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	207455	51.039	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	137865m	48.811	ug/l	100
77) Bromobenzene	12.529	156	248295	51.151	ug/l	100
78) n-propylbenzene	12.590	91	1417674	51.290	ug/l	100
79) 2-Chlorotoluene	12.676	91	808973	51.052	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	943653	51.081	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	68301	51.748	ug/l	100
82) 4-Chlorotoluene	12.773	91	823660	50.835	ug/l	100
83) tert-Butylbenzene	12.993	119	843078	50.943	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	942572	51.463	ug/l	100
85) sec-Butylbenzene	13.170	105	1283255	51.898	ug/l	100
86) p-Isopropyltoluene	13.285	119	1036077	51.602	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	494583	50.453	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	489868	50.867	ug/l	100
89) n-Butylbenzene	13.615	91	1040714	53.083	ug/l	100
90) Hexachloroethane	13.877	117	200883	51.381	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	438452	50.904	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	32794	50.555	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	262465	54.343	ug/l	100
94) Hexachlorobutadiene	15.017	225	143964	53.614	ug/l	100
95) Naphthalene	15.139	128	501768	55.083	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	223695	54.790	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019830.D
Acq On : 09 Oct 2024 11:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:17:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

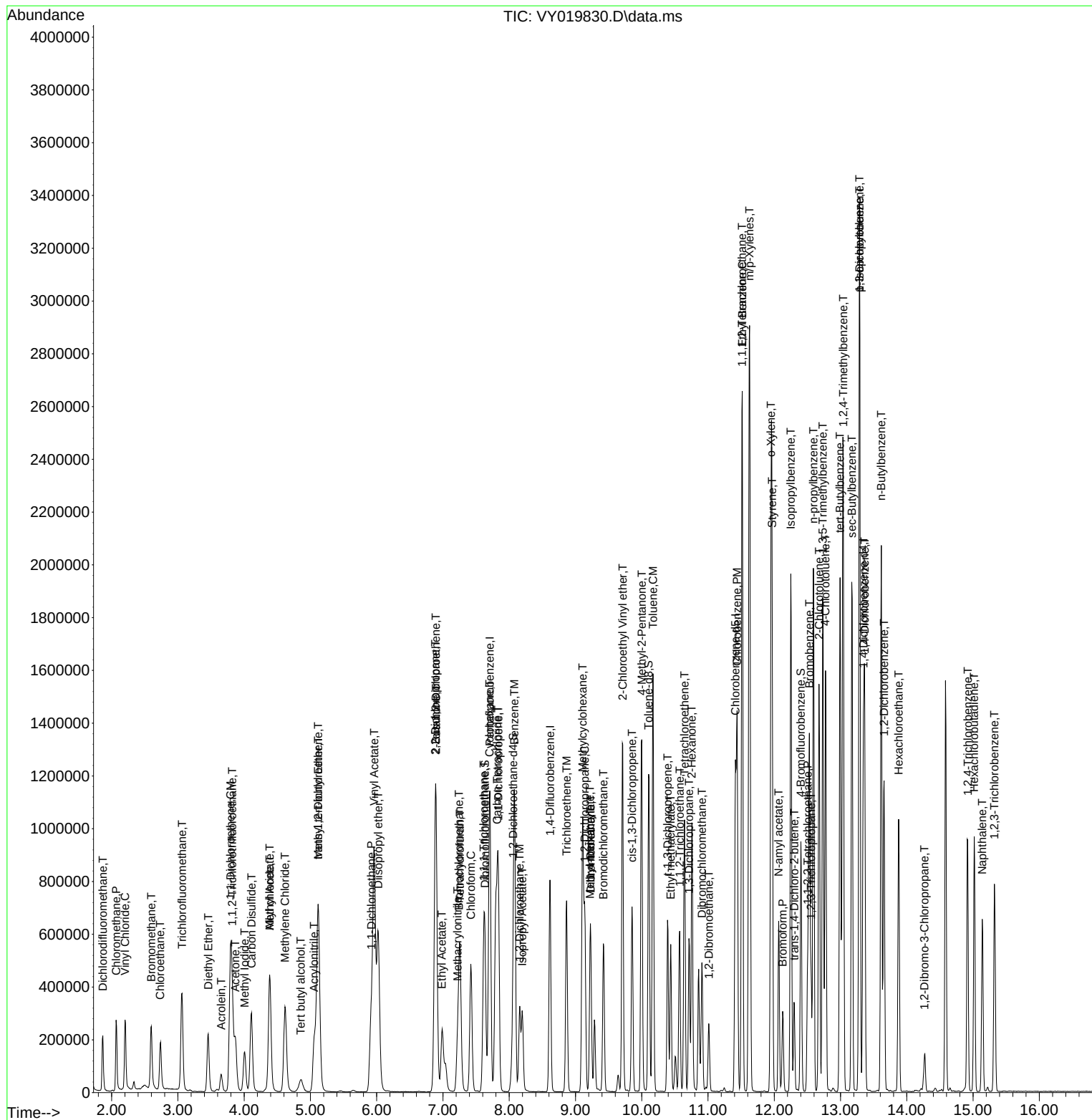
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019830.D
Acq On : 09 Oct 2024 11:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Oct 10 05:17:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019831.D
 Acq On : 09 Oct 2024 11:49
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	399543	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	674919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	589258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	280903	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	466054	94.735	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 189.480%#	
35) Dibromofluoromethane	7.634	113	439652	98.716	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 197.440%#	
50) Toluene-d8	10.103	98	1608316	97.788	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 195.580%#	
62) 4-Bromofluorobenzene	12.402	95	576291	96.973	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 193.940%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	346639	93.197	ug/l	99
3) Chloromethane	2.068	50	439794	90.849	ug/l	97
4) Vinyl Chloride	2.202	62	498744	93.624	ug/l	98
5) Bromomethane	2.592	94	311487	92.379	ug/l	98
6) Chloroethane	2.733	64	326380	91.200	ug/l	99
7) Trichlorofluoromethane	3.056	101	731395	92.270	ug/l	98
8) Diethyl Ether	3.458	74	227317	94.358	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	427581	92.738	ug/l	99
10) Methyl Iodide	4.007	142	454738	97.517	ug/l	99
11) Tert butyl alcohol	4.860	59	188738	490.425	ug/l	100
12) 1,1-Dichloroethene	3.787	96	399038	93.096	ug/l	98
13) Acrolein	3.653	56	145388	402.193	ug/l	99
14) Allyl chloride	4.385	41	720821	93.204	ug/l	99
15) Acrylonitrile	5.061	53	528321	479.466	ug/l	100
16) Acetone	3.866	43	607853	474.648	ug/l	100
17) Carbon Disulfide	4.104	76	1121588	97.624	ug/l	100
18) Methyl Acetate	4.385	43	256490	92.974	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	1152848	93.619	ug/l	99
20) Methylene Chloride	4.622	84	434102	83.991	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	437256	93.729	ug/l	99
22) Diisopropyl ether	6.019	45	1551540	92.103	ug/l	98
23) Vinyl Acetate	5.964	43	4640029	480.470	ug/l	99
24) 1,1-Dichloroethane	5.915	63	865956	92.476	ug/l	100
25) 2-Butanone	6.896	43	802529	468.172	ug/l	98
26) 2,2-Dichloropropane	6.890	77	755135	90.550	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	534246	92.669	ug/l	99
28) Bromochloromethane	7.244	49	385755	93.594	ug/l	98
29) Tetrahydrofuran	7.262	42	470106	480.310	ug/l	100
30) Chloroform	7.421	83	880963	92.290	ug/l	97
31) Cyclohexane	7.701	56	731399	88.978	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	781774	93.453	ug/l	99
36) 1,1-Dichloropropene	7.835	75	614134	95.713	ug/l	99
37) Ethyl Acetate	6.988	43	333253	99.605	ug/l	100
38) Carbon Tetrachloride	7.817	117	668267	97.152	ug/l	97
39) Methylcyclohexane	9.109	83	784660	97.056	ug/l	99
40) Benzene	8.079	78	1836648	94.582	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019831.D
 Acq On : 09 Oct 2024 11:49
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	174585	96.413	ug/l	90
42) 1,2-Dichloroethane	8.158	62	537873	96.414	ug/l	100
43) Isopropyl Acetate	8.195	43	670131	98.212	ug/l #	89
44) Trichloroethene	8.866	130	449896	95.657	ug/l	97
45) 1,2-Dichloropropane	9.140	63	454844	93.582	ug/l	97
46) Dibromomethane	9.231	93	253769	95.564	ug/l	99
47) Bromodichloromethane	9.420	83	676772	96.016	ug/l	99
48) Methyl methacrylate	9.219	41	307095	102.316	ug/l	98
49) 1,4-Dioxane	9.225	88	58595	1971.492	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	1712900	492.165	ug/l	99
52) Toluene	10.170	92	1169222	96.461	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	625756	98.669	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	731095	97.697	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	334601	95.637	ug/l	99
56) Ethyl methacrylate	10.438	69	513797	102.346	ug/l	99
57) 1,3-Dichloropropane	10.713	76	592969	96.510	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	1185407	507.222	ug/l	99
59) 2-Hexanone	10.755	43	1250214	502.949	ug/l	100
60) Dibromochloromethane	10.908	129	443160	98.687	ug/l	97
61) 1,2-Dibromoethane	11.012	107	304519	96.320	ug/l	99
64) Tetrachloroethene	10.646	164	386629	92.245	ug/l	98
65) Chlorobenzene	11.438	112	1254471	93.077	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	431042	94.527	ug/l	99
67) Ethyl Benzene	11.518	91	2301755	94.015	ug/l	99
68) m/p-Xylenes	11.627	106	1696340	187.606	ug/l	100
69) o-Xylene	11.950	106	824619	94.919	ug/l	100
70) Styrene	11.969	104	1403875	95.780	ug/l	100
71) Bromoform	12.127	173	240288	98.434	ug/l #	100
73) Isopropylbenzene	12.249	105	2198054	93.029	ug/l	100
74) N-amyl acetate	12.066	43	630968	100.827	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	403664	96.148	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	268287m	91.961	ug/l	
77) Bromobenzene	12.530	156	472215	94.181	ug/l	99
78) n-propylbenzene	12.591	91	2669979	93.520	ug/l	99
79) 2-Chlorotoluene	12.676	91	1509965	92.254	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	1786278	93.613	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	136172	99.883	ug/l	96
82) 4-Chlorotoluene	12.773	91	1544655	92.297	ug/l	99
83) tert-Butylbenzene	12.993	119	1589606	92.992	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1772395	93.687	ug/l	100
85) sec-Butylbenzene	13.170	105	2369538	92.778	ug/l	100
86) p-Isopropyltoluene	13.286	119	1943974	93.735	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	927379	91.590	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	918591	92.346	ug/l	100
89) n-Butylbenzene	13.615	91	1918293	94.728	ug/l	100
90) Hexachloroethane	13.877	117	388866	96.294	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	828259	93.096	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	66288	98.933	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	497483	99.722	ug/l	100
94) Hexachlorobutadiene	15.017	225	265216	95.624	ug/l	99
95) Naphthalene	15.139	128	1014718	107.846	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	427428	101.356	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019831.D
Acq On : 09 Oct 2024 11:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

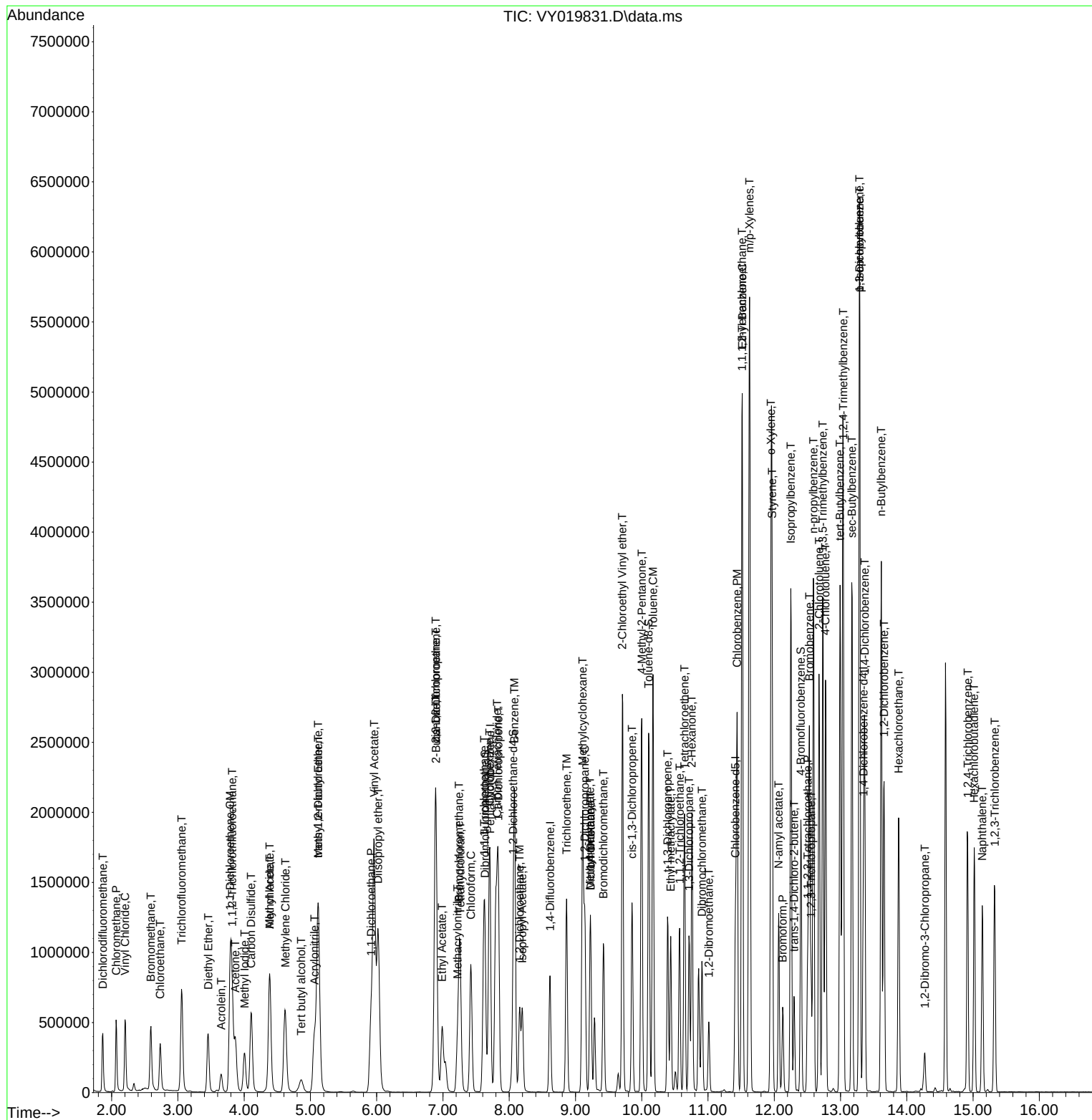
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019831.D
Acq On : 09 Oct 2024 11:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:19:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	396915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	678680	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	586330	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	274686	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	722957	147.929	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 295.860%#	
35) Dibromofluoromethane	7.634	113	694656	155.108	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 310.220%#	
50) Toluene-d8	10.109	98	2537328	153.418	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 306.840%#	
62) 4-Bromofluorobenzene	12.402	95	916338	153.339	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 306.680%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	585892	158.565	ug/l	98
3) Chloromethane	2.068	50	798560	166.053	ug/l	99
4) Vinyl Chloride	2.202	62	852845	161.156	ug/l	100
5) Bromomethane	2.592	94	531912	158.796	ug/l	100
6) Chloroethane	2.733	64	561947	158.064	ug/l	97
7) Trichlorofluoromethane	3.056	101	1251005	158.867	ug/l	96
8) Diethyl Ether	3.458	74	383280	160.151	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	721787	157.584	ug/l	99
10) Methyl Iodide	4.007	142	747271	161.311	ug/l	100
11) Tert butyl alcohol	4.885	59	284963	755.176	ug/l	99
12) 1,1-Dichloroethene	3.787	96	679168	159.500	ug/l	95
13) Acrolein	3.659	56	236461	658.464	ug/l	98
14) Allyl chloride	4.385	41	1216534	158.343	ug/l	100
15) Acrylonitrile	5.061	53	848983	775.578	ug/l	100
16) Acetone	3.879	43	912619	717.346	ug/l	97
17) Carbon Disulfide	4.104	76	1888753	165.487	ug/l	100
18) Methyl Acetate	4.391	43	442370	161.415	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	1925958	157.437	ug/l	98
20) Methylene Chloride	4.616	84	717870	139.815	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	729032	157.309	ug/l	99
22) Diisopropyl ether	6.025	45	2570555	153.605	ug/l	98
23) Vinyl Acetate	5.964	43	7535742	785.485	ug/l	100
24) 1,1-Dichloroethane	5.915	63	1445405	155.378	ug/l	99
25) 2-Butanone	6.896	43	1256383	737.790	ug/l	97
26) 2,2-Dichloropropane	6.884	77	1264317	152.611	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	891915	155.734	ug/l	99
28) Bromochloromethane	7.244	49	599875	146.508	ug/l	99
29) Tetrahydrofuran	7.268	42	743751	764.926	ug/l	99
30) Chloroform	7.421	83	1464004	154.385	ug/l	99
31) Cyclohexane	7.701	56	1219720	149.367	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	1323990	159.317	ug/l	100
36) 1,1-Dichloropropene	7.835	75	1036099	160.582	ug/l	99
37) Ethyl Acetate	6.988	43	525554	156.210	ug/l	100
38) Carbon Tetrachloride	7.817	117	1138895	164.654	ug/l	99
39) Methylcyclohexane	9.109	83	1339043	164.711	ug/l	98
40) Benzene	8.079	78	3082261	157.848	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:19:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	307343	168.786	ug/l	94
42) 1,2-Dichloroethane	8.158	62	888679	158.413	ug/l	99
43) Isopropyl Acetate	8.201	43	1096296	159.778	ug/l	100
44) Trichloroethene	8.866	130	754171	159.464	ug/l	95
45) 1,2-Dichloropropane	9.140	63	755395	154.558	ug/l	98
46) Dibromomethane	9.231	93	417621	156.395	ug/l	98
47) Bromodichloromethane	9.420	83	1139669	160.793	ug/l	99
48) Methyl methacrylate	9.219	41	525958	174.265	ug/l	96
49) 1,4-Dioxane	9.237	88	92452	3093.409	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	2795976	798.912	ug/l	100
52) Toluene	10.170	92	1953896	160.303	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	1067220	167.346	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	1228314	163.232	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	552194	156.956	ug/l	99
56) Ethyl methacrylate	10.438	69	867997	171.943	ug/l	100
57) 1,3-Dichloropropane	10.713	76	969272	156.883	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	1849035	786.796	ug/l	99
59) 2-Hexanone	10.762	43	2004280	801.835	ug/l	99
60) Dibromochloromethane	10.908	129	741465	164.201	ug/l	98
61) 1,2-Dibromoethane	11.012	107	505709	159.070	ug/l	99
64) Tetrachloroethene	10.646	164	664013	159.217	ug/l	98
65) Chlorobenzene	11.438	112	2113807	157.620	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	727387	160.312	ug/l	99
67) Ethyl Benzene	11.518	91	3885454	159.494	ug/l	98
68) m/p-Xylenes	11.627	106	2859768	317.854	ug/l	99
69) o-Xylene	11.950	106	1377967	159.404	ug/l	100
70) Styrene	11.969	104	2345126	160.796	ug/l	99
71) Bromoform	12.127	173	408699	168.260	ug/l #	99
73) Isopropylbenzene	12.255	105	3683189	159.413	ug/l	100
74) N-amyl acetate	12.066	43	1045778	170.894	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	663721	161.669	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	430858m	151.028	ug/l	
77) Bromobenzene	12.530	156	784626	160.032	ug/l	99
78) n-propylbenzene	12.591	91	4426286	158.547	ug/l	99
79) 2-Chlorotoluene	12.676	91	2526778	157.872	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	2960841	158.681	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	231021	173.290	ug/l	95
82) 4-Chlorotoluene	12.773	91	2581267	157.729	ug/l	100
83) tert-Butylbenzene	12.993	119	2640275	157.952	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	2948705	159.393	ug/l	100
85) sec-Butylbenzene	13.176	105	3947759	158.071	ug/l	100
86) p-Isopropyltoluene	13.292	119	3233062	159.421	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	1554919	157.043	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	1529859	157.278	ug/l	99
89) n-Butylbenzene	13.615	91	3223421	162.780	ug/l	99
90) Hexachloroethane	13.877	117	662225	167.697	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	1370278	157.505	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	106025	161.821	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	846149	173.453	ug/l	100
94) Hexachlorobutadiene	15.023	225	451281	166.393	ug/l	99
95) Naphthalene	15.139	128	1715521	186.455	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	718465	174.226	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019832.D
Acq On : 09 Oct 2024 12:11
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:19:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 10/10/2024

Supervised By :Mahesh Dadoda 10/10/2024

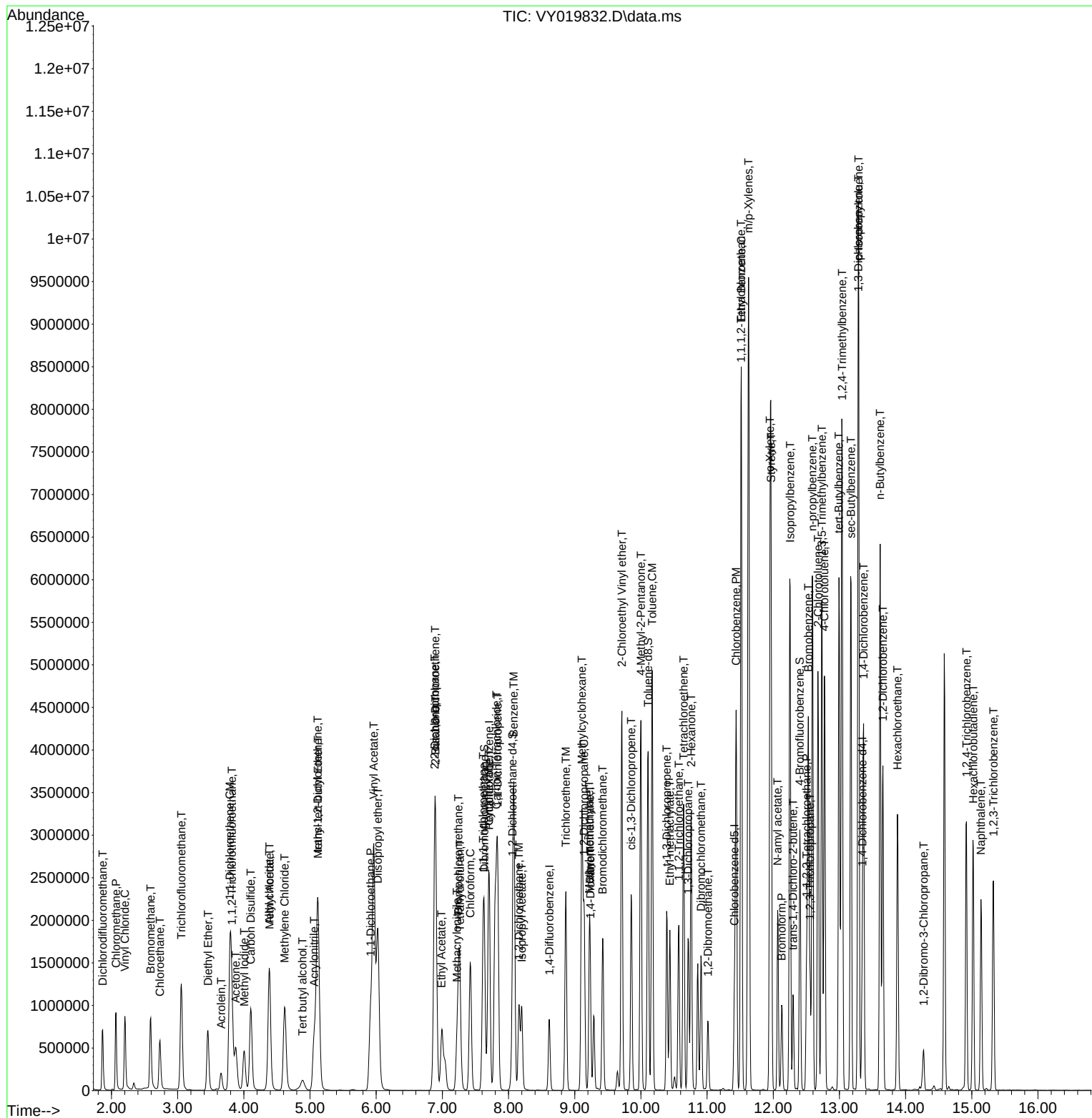
Quant Time: Oct 10 05:19:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Quant Title : SW846 8260

QLast Update : Thu Oct 10 05:14:43 2024

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	430698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	723884	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	604297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	285838	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	233998	44.124	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.240%
35) Dibromofluoromethane	7.634	113	228064	47.744	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.480%
50) Toluene-d8	10.103	98	855648	48.506	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.020%
62) 4-Bromofluorobenzene	12.401	95	297494	46.674	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	93.340%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	211482	52.746	ug/l	100
3) Chloromethane	2.074	50	267731	51.305	ug/l	98
4) Vinyl Chloride	2.208	62	302525	52.682	ug/l	99
5) Bromomethane	2.598	94	188629	51.896	ug/l	99
6) Chloroethane	2.738	64	194374	50.385	ug/l	92
7) Trichlorofluoromethane	3.062	101	443589	51.914	ug/l	99
8) Diethyl Ether	3.458	74	129997	50.058	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	257043	51.717	ug/l	100
10) Methyl Iodide	4.007	142	265733	52.864	ug/l	98
11) Tert butyl alcohol	4.866	59	97246	224.555	ug/l	100
12) 1,1-Dichloroethene	3.793	96	241587	52.286	ug/l	97
13) Acrolein	3.653	56	96920	248.720	ug/l	99
14) Allyl chloride	4.391	41	428800	51.434	ug/l	99
15) Acrylonitrile	5.067	53	282187	237.568	ug/l	100
16) Acetone	3.872	43	324300	234.915	ug/l	99
17) Carbon Disulfide	4.110	76	676399	54.615	ug/l	99
18) Methyl Acetate	4.385	43	140374	47.203	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	649655	48.940	ug/l	96
20) Methylene Chloride	4.622	84	260836	46.817	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	259294	51.561	ug/l	96
22) Diisopropyl ether	6.018	45	902486	49.699	ug/l	98
23) Vinyl Acetate	5.964	43	2572778	247.138	ug/l	99
24) 1,1-Dichloroethane	5.915	63	509324	50.457	ug/l	99
25) 2-Butanone	6.896	43	425540	230.290	ug/l	99
26) 2,2-Dichloropropane	6.884	77	463783	51.590	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	314625	50.626	ug/l	99
28) Bromochloromethane	7.244	49	205401	46.231	ug/l	99
29) Tetrahydrofuran	7.262	42	245375	232.566	ug/l	99
30) Chloroform	7.421	83	518647	50.403	ug/l	97
31) Cyclohexane	7.701	56	438371	49.472	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	466878	51.773	ug/l	100
36) 1,1-Dichloropropene	7.835	75	373449	54.265	ug/l	99
37) Ethyl Acetate	6.988	43	176947	49.310	ug/l	100
38) Carbon Tetrachloride	7.817	117	405617	54.980	ug/l	96
39) Methylcyclohexane	9.109	83	466748	53.828	ug/l	99
40) Benzene	8.079	78	1094650	52.558	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	90045	46.363	ug/l #	86
42) 1,2-Dichloroethane	8.158	62	303059	50.649	ug/l	99
43) Isopropyl Acetate	8.195	43	360757	49.295	ug/l	100
44) Trichloroethene	8.865	130	268143	53.156	ug/l	98
45) 1,2-Dichloropropane	9.140	63	266447	51.112	ug/l	99
46) Dibromomethane	9.231	93	142048	49.874	ug/l	100
47) Bromodichloromethane	9.420	83	389060	51.464	ug/l	99
48) Methyl methacrylate	9.219	41	168043	52.201	ug/l	97
49) 1,4-Dioxane	9.231	88	29492	925.169	ug/l	90
51) 4-Methyl-2-Pentanone	9.999	43	913222	244.646	ug/l	100
52) Toluene	10.170	92	688634	52.969	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	350338	51.505	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	414888	51.692	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	188507	50.235	ug/l	98
56) Ethyl methacrylate	10.438	69	277264	51.494	ug/l	99
57) 1,3-Dichloropropane	10.719	76	327837	49.749	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	593052	236.595	ug/l	99
59) 2-Hexanone	10.755	43	658677	247.056	ug/l	99
60) Dibromochloromethane	10.908	129	242202	50.287	ug/l	99
61) 1,2-Dibromoethane	11.011	107	165931	48.934	ug/l	99
64) Tetrachloroethene	10.646	164	224993	52.345	ug/l	99
65) Chlorobenzene	11.438	112	731619	52.932	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	246451	52.701	ug/l	99
67) Ethyl Benzene	11.517	91	1358983	54.126	ug/l	99
68) m/p-Xylenes	11.627	106	998713	107.703	ug/l	100
69) o-Xylene	11.950	106	475544	53.376	ug/l	100
70) Styrene	11.969	104	798999	53.155	ug/l	100
71) Bromoform	12.133	173	129999	51.929	ug/l #	99
73) Isopropylbenzene	12.255	105	1291391	53.712	ug/l	100
74) N-amyl acetate	12.066	43	333199	52.325	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	213934	50.077	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	147134m	49.434	ug/l	
77) Bromobenzene	12.529	156	266033	52.143	ug/l	99
78) n-propylbenzene	12.590	91	1580208	54.394	ug/l	100
79) 2-Chlorotoluene	12.676	91	884605	53.113	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1042089	53.670	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	72989	52.613	ug/l	97
82) 4-Chlorotoluene	12.773	91	904186	53.095	ug/l	99
83) tert-Butylbenzene	12.993	119	928800	53.397	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	1023548	53.170	ug/l	100
85) sec-Butylbenzene	13.176	105	1396101	53.720	ug/l	100
86) p-Isopropyltoluene	13.285	119	1126019	53.357	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	533804	51.809	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	518316	51.207	ug/l	100
89) n-Butylbenzene	13.615	91	1122433	54.470	ug/l	100
90) Hexachloroethane	13.877	117	224415	54.612	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	465022	51.366	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	33414	49.008	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	269549	53.099	ug/l	99
94) Hexachlorobutadiene	15.023	225	148493	52.615	ug/l	100
95) Naphthalene	15.139	128	506717	52.925	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	224718	52.368	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019834.D
Acq On : 09 Oct 2024 15:25
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100924

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:34:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

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

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100924

Manual Integrations

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
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Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	114	0.00
2 T	Dichlorodifluoromethane	0.465	0.491	-5.6	123	0.00
3 P	Chloromethane	0.606	0.622	-2.6	115	0.00
4 C	Vinyl Chloride	0.667	0.702	-5.2#	117	0.00
5 T	Bromomethane	0.422	0.438	-3.8	116	0.00
6 T	Chloroethane	0.448	0.451	-0.7	113	0.00
7 T	Trichlorofluoromethane	0.992	1.030	-3.8	118	0.00
8 T	Diethyl Ether	0.301	0.302	-0.3	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.597	-3.5	117	0.00
10 T	Methyl Iodide	0.584	0.617	-5.7	111	0.00
11 T	Tert butyl alcohol	0.058	0.045	22.4	103	0.01
12 CM	1,1-Dichloroethene	0.536	0.561	-4.7#	117	0.00
13 T	Acrolein	0.045	0.045	0.0	129	0.00
14 T	Allyl chloride	0.968	0.996	-2.9	113	0.00
15 T	Acrylonitrile	0.138	0.131	5.1	105	0.01
16 T	Acetone	0.160	0.151	5.6	101	0.00
17 T	Carbon Disulfide	1.438	1.570	-9.2	116	0.00
18 T	Methyl Acetate	0.345	0.326	5.5	106	0.00
19 T	Methyl tert-butyl Ether	1.541	1.508	2.1	110	0.00
20 T	Methylene Chloride	0.647	0.606	6.3	112	0.00
21 T	trans-1,2-Dichloroethene	0.584	0.602	-3.1	114	0.00
22 T	Diisopropyl ether	2.108	2.095	0.6	111	0.00
23 T	Vinyl Acetate	1.209	1.195	1.2	107	0.00
24 P	1,1-Dichloroethane	1.172	1.183	-0.9	113	0.00
25 T	2-Butanone	0.215	0.198	7.9	102	0.00
26 T	2,2-Dichloropropane	1.044	1.077	-3.2	118	0.00
27 T	cis-1,2-Dichloroethene	0.721	0.731	-1.4	113	0.00
28 T	Bromochloromethane	0.516	0.477	7.6	103	0.00
29 T	Tetrahydrofuran	0.122	0.114	6.6	102	0.00
30 C	Chloroform	1.195	1.204	-0.8#	112	0.00
31 T	Cyclohexane	1.029	1.018	1.1	115	0.00
32 T	1,1,1-Trichloroethane	1.047	1.084	-3.5	116	0.00
33 S	1,2-Dichloroethane-d4	0.616	0.543	11.9	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
35 S	Dibromofluoromethane	0.330	0.315	4.5	109	0.00
36 T	1,1-Dichloropropene	0.475	0.516	-8.6	115	0.00
37 T	Ethyl Acetate	0.248	0.244	1.6	105	0.00
38 T	Carbon Tetrachloride	0.510	0.560	-9.8	118	0.00
39 T	Methylcyclohexane	0.599	0.645	-7.7	114	0.00
40 TM	Benzene	1.439	1.512	-5.1	113	0.00
41 T	Methacrylonitrile	0.134	0.124	7.5	89	0.00
42 TM	1,2-Dichloroethane	0.413	0.419	-1.5	108	0.00
43 T	Isopropyl Acetate	0.505	0.498	1.4	106	0.00
44 TM	Trichloroethene	0.348	0.370	-6.3	112	0.00
45 C	1,2-Dichloropropane	0.360	0.368	-2.2#	112	0.00
46 T	Dibromomethane	0.197	0.196	0.5	107	0.00
47 T	Bromodichloromethane	0.522	0.537	-2.9	110	0.00
48 T	Methyl methacrylate	0.222	0.232	-4.5	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
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 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY100924

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	0.002	0.002	0.0	95	0.00
50 S	Toluene-d8	1.218	1.182	3.0	111	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.252	2.3	104	0.00
52 CM	Toluene	0.898	0.951	-5.9#	112	0.00
53 T	t-1,3-Dichloropropene	0.470	0.484	-3.0	108	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.573	-3.4	110	0.00
55 T	1,1,2-Trichloroethane	0.259	0.260	-0.4	107	0.00
56 T	Ethyl methacrylate	0.372	0.383	-3.0	105	0.00
57 T	1,3-Dichloropropane	0.455	0.453	0.4	106	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.164	5.2	107	0.00
59 T	2-Hexanone	0.184	0.182	1.1	103	0.00
60 T	Dibromochloromethane	0.333	0.335	-0.6	108	0.00
61 T	1,2-Dibromoethane	0.234	0.229	2.1	103	0.00
62 S	4-Bromofluorobenzene	0.440	0.411	6.6	107	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.356	0.372	-4.5	109	0.00
65 PM	Chlorobenzene	1.144	1.211	-5.9	111	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.408	-5.4	110	0.00
67 C	Ethyl Benzene	2.077	2.249	-8.3#	112	0.00
68 T	m/p-Xylenes	0.767	0.826	-7.7	112	0.00
69 T	o-Xylene	0.737	0.787	-6.8	110	0.00
70 T	Styrene	1.244	1.322	-6.3	109	0.00
71 P	Bromoform	0.207	0.215	-3.9	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	4.206	4.518	-7.4	111	0.00
74 T	N-amyl acetate	1.114	1.166	-4.7	104	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.748	-0.1	103	0.00
76 T	1,2,3-Trichloropropane	0.521	0.515	1.2	107	0.00
77 T	Bromobenzene	0.892	0.931	-4.4	107	0.00
78 T	n-propylbenzene	5.082	5.528	-8.8	111	0.00
79 T	2-Chlorotoluene	2.913	3.095	-6.2	109	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.646	-7.4	110	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.255	-4.9	107	0.00
82 T	4-Chlorotoluene	2.979	3.163	-6.2	110	0.00
83 T	tert-Butylbenzene	3.043	3.249	-6.8	110	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.581	-6.4	109	0.00
85 T	sec-Butylbenzene	4.546	4.884	-7.4	109	0.00
86 T	p-Isopropyltoluene	3.691	3.939	-6.7	109	0.00
87 T	1,3-Dichlorobenzene	1.802	1.868	-3.7	108	0.00
88 T	1,4-Dichlorobenzene	1.771	1.813	-2.4	106	0.00
89 T	n-Butylbenzene	3.605	3.927	-8.9	108	0.00
90 T	Hexachloroethane	0.719	0.785	-9.2	112	0.00
91 T	1,2-Dichlorobenzene	1.584	1.627	-2.7	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.117	1.7	102	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.943	-6.2	103	0.00
94 T	Hexachlorobutadiene	0.494	0.520	-5.3	103	0.00
95 T	Naphthalene	1.675	1.773	-5.9	101	0.00

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ALS Vial : 9 Sample Multiplier: 1

Instrument :
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ICVVY100924

Quant Time: Oct 10 05:34:20 2024
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Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 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	0.751	0.786	-4.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
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 Sample : VSTDICV050
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Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	114	0.00
2 T	Dichlorodifluoromethane	50.000	52.746	-5.5	123	0.00
3 P	Chloromethane	50.000	51.305	-2.6	115	0.00
4 C	Vinyl Chloride	50.000	52.682	-5.4#	117	0.00
5 T	Bromomethane	50.000	51.896	-3.8	116	0.00
6 T	Chloroethane	50.000	50.385	-0.8	113	0.00
7 T	Trichlorofluoromethane	50.000	51.914	-3.8	118	0.00
8 T	Diethyl Ether	50.000	50.058	-0.1	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.717	-3.4	117	0.00
10 T	Methyl Iodide	50.000	52.864	-5.7	111	0.00
11 T	Tert butyl alcohol	250.000	224.555	10.2	103	0.01
12 CM	1,1-Dichloroethene	50.000	52.286	-4.6#	117	0.00
13 T	Acrolein	250.000	248.720	0.5	129	0.00
14 T	Allyl chloride	50.000	51.434	-2.9	113	0.00
15 T	Acrylonitrile	250.000	237.568	5.0	105	0.01
16 T	Acetone	250.000	234.915	6.0	101	0.00
17 T	Carbon Disulfide	50.000	54.615	-9.2	116	0.00
18 T	Methyl Acetate	50.000	47.203	5.6	106	0.00
19 T	Methyl tert-butyl Ether	50.000	48.940	2.1	110	0.00
20 T	Methylene Chloride	50.000	46.817	6.4	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.561	-3.1	114	0.00
22 T	Diisopropyl ether	50.000	49.699	0.6	111	0.00
23 T	Vinyl Acetate	250.000	247.138	1.1	107	0.00
24 P	1,1-Dichloroethane	50.000	50.457	-0.9	113	0.00
25 T	2-Butanone	250.000	230.290	7.9	102	0.00
26 T	2,2-Dichloropropane	50.000	51.590	-3.2	118	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.626	-1.3	113	0.00
28 T	Bromochloromethane	50.000	46.231	7.5	103	0.00
29 T	Tetrahydrofuran	250.000	232.566	7.0	102	0.00
30 C	Chloroform	50.000	50.403	-0.8#	112	0.00
31 T	Cyclohexane	50.000	49.472	1.1	115	0.00
32 T	1,1,1-Trichloroethane	50.000	51.773	-3.5	116	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.124	11.8	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	111	0.00
35 S	Dibromofluoromethane	50.000	47.744	4.5	109	0.00
36 T	1,1-Dichloropropene	50.000	54.265	-8.5	115	0.00
37 T	Ethyl Acetate	50.000	49.310	1.4	105	0.00
38 T	Carbon Tetrachloride	50.000	54.980	-10.0	118	0.00
39 T	Methylcyclohexane	50.000	53.828	-7.7	114	0.00
40 TM	Benzene	50.000	52.558	-5.1	113	0.00
41 T	Methacrylonitrile	50.000	46.363	7.3	89	0.00
42 TM	1,2-Dichloroethane	50.000	50.649	-1.3	108	0.00
43 T	Isopropyl Acetate	50.000	49.295	1.4	106	0.00
44 TM	Trichloroethene	50.000	53.156	-6.3	112	0.00
45 C	1,2-Dichloropropane	50.000	51.112	-2.2#	112	0.00
46 T	Dibromomethane	50.000	49.874	0.3	107	0.00
47 T	Bromodichloromethane	50.000	51.464	-2.9	110	0.00
48 T	Methyl methacrylate	50.000	52.201	-4.4	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY100924

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	925.169	7.5	95	0.00
50 S	Toluene-d8	50.000	48.506	3.0	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	244.646	2.1	104	0.00
52 CM	Toluene	50.000	52.969	-5.9#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	51.505	-3.0	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.692	-3.4	110	0.00
55 T	1,1,2-Trichloroethane	50.000	50.235	-0.5	107	0.00
56 T	Ethyl methacrylate	50.000	51.494	-3.0	105	0.00
57 T	1,3-Dichloropropane	50.000	49.749	0.5	106	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	236.595	5.4	107	0.00
59 T	2-Hexanone	250.000	247.056	1.2	103	0.00
60 T	Dibromochloromethane	50.000	50.287	-0.6	108	0.00
61 T	1,2-Dibromoethane	50.000	48.934	2.1	103	0.00
62 S	4-Bromofluorobenzene	50.000	46.674	6.7	107	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	52.345	-4.7	109	0.00
65 PM	Chlorobenzene	50.000	52.932	-5.9	111	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.701	-5.4	110	0.00
67 C	Ethyl Benzene	50.000	54.126	-8.3#	112	0.00
68 T	m/p-Xylenes	100.000	107.703	-7.7	112	0.00
69 T	o-Xylene	50.000	53.376	-6.8	110	0.00
70 T	Styrene	50.000	53.155	-6.3	109	0.00
71 P	Bromoform	50.000	51.929	-3.9	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	53.712	-7.4	111	0.00
74 T	N-amyl acetate	50.000	52.325	-4.7	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.077	-0.2	103	0.00
76 T	1,2,3-Trichloropropane	50.000	49.434	1.1	107	0.00
77 T	Bromobenzene	50.000	52.143	-4.3	107	0.00
78 T	n-propylbenzene	50.000	54.394	-8.8	111	0.00
79 T	2-Chlorotoluene	50.000	53.113	-6.2	109	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.670	-7.3	110	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.613	-5.2	107	0.00
82 T	4-Chlorotoluene	50.000	53.095	-6.2	110	0.00
83 T	tert-Butylbenzene	50.000	53.397	-6.8	110	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.170	-6.3	109	0.00
85 T	sec-Butylbenzene	50.000	53.720	-7.4	109	0.00
86 T	p-Isopropyltoluene	50.000	53.357	-6.7	109	0.00
87 T	1,3-Dichlorobenzene	50.000	51.809	-3.6	108	0.00
88 T	1,4-Dichlorobenzene	50.000	51.207	-2.4	106	0.00
89 T	n-Butylbenzene	50.000	54.470	-8.9	108	0.00
90 T	Hexachloroethane	50.000	54.612	-9.2	112	0.00
91 T	1,2-Dichlorobenzene	50.000	51.366	-2.7	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.008	2.0	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.099	-6.2	103	0.00
94 T	Hexachlorobutadiene	50.000	52.615	-5.2	103	0.00
95 T	Naphthalene	50.000	52.925	-5.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019834.D
Acq On : 09 Oct 2024 15:25
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100924

Quant Time: Oct 10 05:34:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 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	52.368	-4.7	100	0.00

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



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_N Calibration Date/Time: 10/21/2024 11:38

Lab File ID: VN084428.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.591	0.529		-10.49	20
Chloromethane	0.675	0.602	0.1	-10.81	20
Vinyl Chloride	0.654	0.597		-8.72	20
Bromomethane	0.431	0.370		-14.15	20
Chloroethane	0.468	0.401		-14.32	20
Trichlorofluoromethane	1.019	1.044		2.45	20
1,1,2-Trichlorotrifluoroethane	0.584	0.603		3.25	20
1,1-Dichloroethene	0.563	0.566		0.53	20
Acetone	0.318	0.317		-0.31	20
Carbon Disulfide	1.782	1.424		-20.09	20
Methyl tert-butyl Ether	1.900	2.031		6.89	20
Methyl Acetate	0.694	0.915		31.84	20
Methylene Chloride	0.647	0.671		3.71	20
trans-1,2-Dichloroethene	0.590	0.593		0.51	20
1,1-Dichloroethane	1.131	1.189	0.1	5.13	20
Cyclohexane	1.098	0.959		-12.66	20
2-Butanone	0.434	0.467		7.6	20
Carbon Tetrachloride	0.525	0.569		8.38	20
cis-1,2-Dichloroethene	0.713	0.752		5.47	20
Bromochloromethane	0.505	0.533		5.55	20
Chloroform	1.175	1.280		8.94	20
1,1,1-Trichloroethane	1.055	1.115		5.69	20
Methylcyclohexane	0.533	0.522		-2.06	20
Benzene	1.492	1.635		9.58	20
1,2-Dichloroethane	0.506	0.549		8.5	20
Trichloroethene	0.348	0.375		7.76	20
1,2-Dichloropropane	0.353	0.401		13.6	20
Bromodichloromethane	0.529	0.606		14.56	20
4-Methyl-2-Pentanone	0.468	0.576		23.08	20
Toluene	0.910	1.023		12.42	20
t-1,3-Dichloropropene	0.539	0.601		11.5	20
cis-1,3-Dichloropropene	0.580	0.651		12.24	20
1,1,2-Trichloroethane	0.326	0.397		21.78	20
2-Hexanone	0.349	0.426		22.06	20
Dibromochloromethane	0.385	0.466		21.04	20
1,2-Dibromoethane	0.339	0.388		14.45	20
Tetrachloroethene	0.348	0.366		5.17	20
Chlorobenzene	1.109	1.181	0.3	6.49	20

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



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_N Calibration Date/Time: 10/21/2024 11:38

Lab File ID: VN084428.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.961	2.070		5.56	20
m/p-Xylenes	0.725	0.807		11.31	20
o-Xylene	0.686	0.765		11.52	20
Styrene	1.162	1.354		16.52	20
Bromoform	0.281	0.332	0.1	18.15	20
Isopropylbenzene	3.815	3.797		-0.47	20
1,1,2,2-Tetrachloroethane	1.147	1.198	0.3	4.45	20
1,3-Dichlorobenzene	1.727	1.778		2.95	20
1,4-Dichlorobenzene	1.744	1.755		0.63	20
1,2-Dichlorobenzene	1.693	1.727		2.01	20
1,2-Dibromo-3-Chloropropane	0.237	0.235		-0.84	20
1,2,4-Trichlorobenzene	0.834	0.857		2.76	20
1,2,3-Trichlorobenzene	0.835	0.868		3.95	20
1,2-Dichloroethane-d4	0.741	0.791		6.75	20
Dibromofluoromethane	0.330	0.387		17.27	20
Toluene-d8	1.213	1.431		17.97	20
4-Bromofluorobenzene	0.442	0.522		18.1	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\VN102124\
 Data File : VN084428.D
 Acq On : 21 Oct 2024 11:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/22/2024
 Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:29:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	157355	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	262800	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244635	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127638	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124506	53.365	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.740%			
35) Dibromofluoromethane	8.165	113	101751	58.729	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.460%			
50) Toluene-d8	10.565	98	376165	59.014	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 118.020%#			
62) 4-Bromofluorobenzene	12.847	95	137246	59.102	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 118.200%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	83308	44.759	ug/l	98
3) Chloromethane	2.359	50	94679	44.550	ug/l	98
4) Vinyl Chloride	2.512	62	93996	45.660	ug/l	97
5) Bromomethane	2.936	94	58206	42.866	ug/l	93
6) Chloroethane	3.106	64	63113	42.808	ug/l	94
7) Trichlorofluoromethane	3.489	101	164207	51.224	ug/l	99
8) Diethyl Ether	3.959	74	59329	49.902	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	94908	51.670	ug/l	99
10) Methyl Iodide	4.583	142	116312	49.171	ug/l	96
11) Tert butyl alcohol	5.530	59	94486	245.606	ug/l	100
12) 1,1-Dichloroethene	4.342	96	89116	50.300	ug/l	98
13) Acrolein	4.177	56	85169	192.843	ug/l	100
14) Allyl chloride	5.018	41	134288	43.643	ug/l	98
15) Acrylonitrile	5.718	53	275307	283.386	ug/l	99
16) Acetone	4.430	43	249463	248.905	ug/l	100
17) Carbon Disulfide	4.706	76	224021	39.937	ug/l	99
18) Methyl Acetate	5.024	43	143956	65.900	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	319663	53.457	ug/l	98
20) Methylene Chloride	5.271	84	105509	51.787	ug/l	88
21) trans-1,2-Dichloroethene	5.783	96	93324	50.278	ug/l	94
22) Diisopropyl ether	6.671	45	336994	52.949	ug/l	99
23) Vinyl Acetate	6.606	43	1190800	252.258	ug/l	100
24) 1,1-Dichloroethane	6.571	63	187107	52.570	ug/l	98
25) 2-Butanone	7.483	43	367222	269.013	ug/l	99
26) 2,2-Dichloropropane	7.488	77	159617	49.738	ug/l	97
27) cis-1,2-Dichloroethene	7.488	96	118267	52.728	ug/l	96
28) Bromochloromethane	7.812	49	83905	52.836	ug/l	93
29) Tetrahydrofuran	7.841	42	238619	283.258	ug/l	98
30) Chloroform	7.965	83	201405	54.476	ug/l	98
31) Cyclohexane	8.259	56	150876	43.659	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	175417	52.830	ug/l	98
36) 1,1-Dichloropropene	8.371	75	130914	52.021	ug/l	98
37) Ethyl Acetate	7.559	43	137280	53.172	ug/l	98
38) Carbon Tetrachloride	8.359	117	149628	54.202	ug/l	97
39) Methylcyclohexane	9.600	83	137117	48.955	ug/l	97
40) Benzene	8.606	78	429647	54.796	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084428.D
 Acq On : 21 Oct 2024 11:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/22/2024

Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:29:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M

Quant Title : SW846 8260

QLast Update : Tue Oct 01 07:11:01 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	79086	56.424	ug/l	96
42) 1,2-Dichloroethane	8.671	62	144178	54.240	ug/l	99
43) Isopropyl Acetate	8.688	43	233616	46.197	ug/l	98
44) Trichloroethene	9.353	130	98494	53.784	ug/l	100
45) 1,2-Dichloropropane	9.618	63	105490	56.873	ug/l	96
46) Dibromomethane	9.706	93	74735	59.706	ug/l	98
47) Bromodichloromethane	9.888	83	159166	57.235	ug/l #	96
48) Methyl methacrylate	9.682	41	112649	55.960	ug/l	99
49) 1,4-Dioxane	9.694	88	46681	1259.594	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	757152	308.066	ug/l	99
52) Toluene	10.629	92	268859	56.231	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	157928	55.712	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	171021	56.089	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	104404	60.910	ug/l	97
56) Ethyl methacrylate	10.871	69	164383	58.283	ug/l	96
57) 1,3-Dichloropropane	11.165	76	176631	57.670	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	397738	303.996	ug/l	97
59) 2-Hexanone	11.194	43	560104	304.908	ug/l	97
60) Dibromochloromethane	11.359	129	122440	60.458	ug/l	99
61) 1,2-Dibromoethane	11.471	107	102008	57.274	ug/l	100
64) Tetrachloroethene	11.100	164	89495	52.523	ug/l	97
65) Chlorobenzene	11.888	112	289014	53.283	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	103631	55.468	ug/l	98
67) Ethyl Benzene	11.965	91	506469	52.799	ug/l	99
68) m/p-Xylenes	12.071	106	394932	111.301	ug/l	99
69) o-Xylene	12.394	106	187215	55.767	ug/l	100
70) Styrene	12.412	104	331204	58.246	ug/l	98
71) Bromoform	12.576	173	81253	59.072	ug/l #	100
73) Isopropylbenzene	12.694	105	484656	49.760	ug/l	100
74) N-amyl acetate	12.494	43	204351	46.332	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	152956	52.226	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	127281m	48.846	ug/l	
77) Bromobenzene	12.976	156	118952	50.631	ug/l	96
78) n-propylbenzene	13.035	91	576662	51.101	ug/l	98
79) 2-Chlorotoluene	13.123	91	354683	49.256	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	416797	52.460	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	58513	53.835	ug/l	90
82) 4-Chlorotoluene	13.218	91	364438	50.275	ug/l	99
83) tert-Butylbenzene	13.435	119	352099	49.862	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	421969	52.722	ug/l	99
85) sec-Butylbenzene	13.617	105	492135	52.226	ug/l	99
86) p-Isopropyltoluene	13.729	119	412249	52.906	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	226954	51.493	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	223977	50.322	ug/l	99
89) n-Butylbenzene	14.053	91	349709	49.495	ug/l	99
90) Hexachloroethane	14.329	117	76242	48.204	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	220370	50.991	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30011	49.657	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	109356	51.373	ug/l	99
94) Hexachlorobutadiene	15.500	225	50783	47.838	ug/l	96
95) Naphthalene	15.641	128	361412	51.214	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	110846	52.021	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084428.D
Acq On : 21 Oct 2024 11:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:29:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

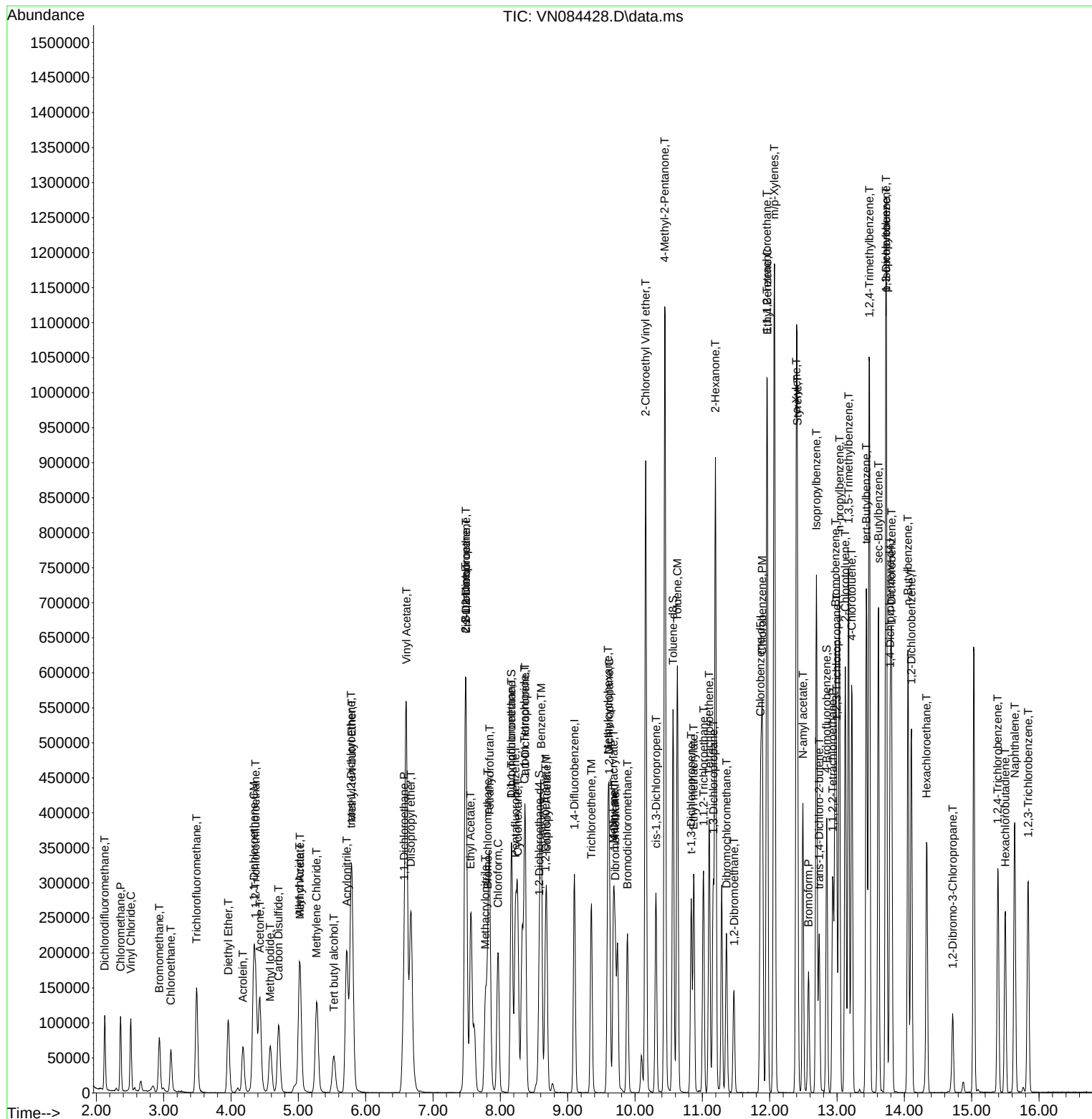
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084428.D
Acq On : 21 Oct 2024 11:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:29:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084428.D
 Acq On : 21 Oct 2024 11:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 22 01:29:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	90	0.00
2 T	Dichlorodifluoromethane	0.591	0.529	10.5	77	0.00
3 P	Chloromethane	0.675	0.602	10.8	80	0.00
4 C	Vinyl Chloride	0.654	0.597	8.7#	80	0.00
5 T	Bromomethane	0.431	0.370	14.2	77	-0.02
6 T	Chloroethane	0.468	0.401	14.3	86	-0.01
7 T	Trichlorofluoromethane	1.019	1.044	-2.5	88	0.00
8 T	Diethyl Ether	0.378	0.377	0.3	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.584	0.603	-3.3	92	0.00
10 T	Methyl Iodide	0.752	0.739	1.7	82	-0.01
11 T	Tert butyl alcohol	0.122	0.120	1.6	87	0.00
12 CM	1,1-Dichloroethene	0.563	0.566	-0.5#	87	0.00
13 T	Acrolein	0.140	0.108	22.9	68	0.00
14 T	Allyl chloride	0.978	0.853	12.8	77	0.00
15 T	Acrylonitrile	0.309	0.350	-13.3	99	0.00
16 T	Acetone	0.318	0.317	0.3	83	0.00
17 T	Carbon Disulfide	1.782	1.424	20.1	74	0.00
18 T	Methyl Acetate	0.694	0.915	-31.8#	116	0.00
19 T	Methyl tert-butyl Ether	1.900	2.031	-6.9	90	0.00
20 T	Methylene Chloride	0.647	0.671	-3.7	92	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.593	-0.5	86	0.00
22 T	Diisopropyl ether	2.022	2.142	-5.9	89	0.00
23 T	Vinyl Acetate	1.500	1.514	-0.9	82	0.00
24 P	1,1-Dichloroethane	1.131	1.189	-5.1	89	0.00
25 T	2-Butanone	0.434	0.467	-7.6	93	0.00
26 T	2,2-Dichloropropane	1.020	1.014	0.6	84	0.00
27 T	cis-1,2-Dichloroethene	0.713	0.752	-5.5	91	0.00
28 T	Bromochloromethane	0.505	0.533	-5.5	97	0.00
29 T	Tetrahydrofuran	0.268	0.303	-13.1	96	0.00
30 C	Chloroform	1.175	1.280	-8.9#	95	0.00
31 T	Cyclohexane	1.098	0.959	12.7	81	0.00
32 T	1,1,1-Trichloroethane	1.055	1.115	-5.7	91	0.00
33 S	1,2-Dichloroethane-d4	0.741	0.791	-6.7	96	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
35 S	Dibromofluoromethane	0.330	0.387	-17.3	103	0.00
36 T	1,1-Dichloropropene	0.479	0.498	-4.0	85	0.00
37 T	Ethyl Acetate	0.491	0.522	-6.3	90	0.00
38 T	Carbon Tetrachloride	0.525	0.569	-8.4	90	0.00
39 T	Methylcyclohexane	0.533	0.522	2.1	77	0.00
40 TM	Benzene	1.492	1.635	-9.6	91	0.00
41 T	Methacrylonitrile	0.267	0.301	-12.7	91	0.00
42 TM	1,2-Dichloroethane	0.506	0.549	-8.5	90	0.00
43 T	Isopropyl Acetate	0.962	0.889	7.6	86	0.00
44 TM	Trichloroethene	0.348	0.375	-7.8	89	0.00
45 C	1,2-Dichloropropane	0.353	0.401	-13.6#	92	0.00
46 T	Dibromomethane	0.238	0.284	-19.3	95	0.00
47 T	Bromodichloromethane	0.529	0.606	-14.6	94	0.00
48 T	Methyl methacrylate	0.383	0.429	-12.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084428.D
 Acq On : 21 Oct 2024 11:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 22 01:29:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	0.007	0.009	-28.6#	105	0.00
50 S	Toluene-d8	1.213	1.431	-18.0	100	0.00
51 T	4-Methyl-2-Pentanone	0.468	0.576	-23.1	98	0.00
52 CM	Toluene	0.910	1.023	-12.4#	91	0.00
53 T	t-1,3-Dichloropropene	0.539	0.601	-11.5	88	0.00
54 T	cis-1,3-Dichloropropene	0.580	0.651	-12.2	88	0.00
55 T	1,1,2-Trichloroethane	0.326	0.397	-21.8	98	0.00
56 T	Ethyl methacrylate	0.537	0.626	-16.6	90	0.00
57 T	1,3-Dichloropropane	0.583	0.672	-15.3	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.303	-21.7	93	0.00
59 T	2-Hexanone	0.349	0.426	-22.1	95	0.00
60 T	Dibromochloromethane	0.385	0.466	-21.0	96	0.00
61 T	1,2-Dibromoethane	0.339	0.388	-14.5	94	0.00
62 S	4-Bromofluorobenzene	0.442	0.522	-18.1	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64 T	Tetrachloroethene	0.348	0.366	-5.2	94	0.00
65 PM	Chlorobenzene	1.109	1.181	-6.5	93	0.00
66 T	1,1,1,2-Tetrachloroethane	0.382	0.424	-11.0	97	0.00
67 C	Ethyl Benzene	1.961	2.070	-5.6#	90	0.00
68 T	m/p-Xylenes	0.725	0.807	-11.3	92	0.00
69 T	o-Xylene	0.686	0.765	-11.5	91	0.00
70 T	Styrene	1.162	1.354	-16.5	95	0.00
71 P	Bromoform	0.281	0.332	-18.1	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.815	3.797	0.5	92	0.00
74 T	N-amyl acetate	1.728	1.601	7.3	86	0.00
75 P	1,1,2,2-Tetrachloroethane	1.147	1.198	-4.4	101	0.00
76 T	1,2,3-Trichloropropane	1.021	0.997	2.4	89	0.00
77 T	Bromobenzene	0.920	0.932	-1.3	98	0.00
78 T	n-propylbenzene	4.421	4.518	-2.2	92	0.00
79 T	2-Chlorotoluene	2.821	2.779	1.5	92	0.00
80 T	1,3,5-Trimethylbenzene	3.112	3.265	-4.9	93	0.00
81 T	trans-1,4-Dichloro-2-butene	0.426	0.458	-7.5	102	0.00
82 T	4-Chlorotoluene	2.840	2.855	-0.5	94	0.00
83 T	tert-Butylbenzene	2.766	2.759	0.3	91	0.00
84 T	1,2,4-Trimethylbenzene	3.135	3.306	-5.5	94	0.00
85 T	sec-Butylbenzene	3.691	3.856	-4.5	93	0.00
86 T	p-Isopropyltoluene	3.052	3.230	-5.8	92	0.00
87 T	1,3-Dichlorobenzene	1.727	1.778	-3.0	99	0.00
88 T	1,4-Dichlorobenzene	1.744	1.755	-0.6	98	0.00
89 T	n-Butylbenzene	2.768	2.740	1.0	89	0.00
90 T	Hexachloroethane	0.620	0.597	3.7	93	0.00
91 T	1,2-Dichlorobenzene	1.693	1.727	-2.0	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.235	0.8	99	0.00
93 T	1,2,4-Trichlorobenzene	0.834	0.857	-2.8	92	0.00
94 T	Hexachlorobutadiene	0.416	0.398	4.3	100	0.00
95 T	Naphthalene	2.764	2.832	-2.5	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084428.D
Acq On : 21 Oct 2024 11:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 22 01:29:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.835	0.868	-4.0	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084428.D
 Acq On : 21 Oct 2024 11:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 22 01:29:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	90	0.00
2 T	Dichlorodifluoromethane	50.000	44.759	10.5	77	0.00
3 P	Chloromethane	50.000	44.550	10.9	80	0.00
4 C	Vinyl Chloride	50.000	45.660	8.7#	80	0.00
5 T	Bromomethane	50.000	42.866	14.3	77	-0.02
6 T	Chloroethane	50.000	42.808	14.4	86	-0.01
7 T	Trichlorofluoromethane	50.000	51.224	-2.4	88	0.00
8 T	Diethyl Ether	50.000	49.902	0.2	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.670	-3.3	92	0.00
10 T	Methyl Iodide	50.000	49.171	1.7	82	-0.01
11 T	Tert butyl alcohol	250.000	245.606	1.8	87	0.00
12 CM	1,1-Dichloroethene	50.000	50.300	-0.6#	87	0.00
13 T	Acrolein	250.000	192.843	22.9	68	0.00
14 T	Allyl chloride	50.000	43.643	12.7	77	0.00
15 T	Acrylonitrile	250.000	283.386	-13.4	99	0.00
16 T	Acetone	250.000	248.905	0.4	83	0.00
17 T	Carbon Disulfide	50.000	39.937	20.1	74	0.00
18 T	Methyl Acetate	50.000	65.900	-31.8#	116	0.00
19 T	Methyl tert-butyl Ether	50.000	53.457	-6.9	90	0.00
20 T	Methylene Chloride	50.000	51.787	-3.6	92	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.278	-0.6	86	0.00
22 T	Diisopropyl ether	50.000	52.949	-5.9	89	0.00
23 T	Vinyl Acetate	250.000	252.258	-0.9	82	0.00
24 P	1,1-Dichloroethane	50.000	52.570	-5.1	89	0.00
25 T	2-Butanone	250.000	269.013	-7.6	93	0.00
26 T	2,2-Dichloropropane	50.000	49.738	0.5	84	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.728	-5.5	91	0.00
28 T	Bromochloromethane	50.000	52.836	-5.7	97	0.00
29 T	Tetrahydrofuran	250.000	283.258	-13.3	96	0.00
30 C	Chloroform	50.000	54.476	-9.0#	95	0.00
31 T	Cyclohexane	50.000	43.659	12.7	81	0.00
32 T	1,1,1-Trichloroethane	50.000	52.830	-5.7	91	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.365	-6.7	96	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	86	0.00
35 S	Dibromofluoromethane	50.000	58.729	-17.5	103	0.00
36 T	1,1-Dichloropropene	50.000	52.021	-4.0	85	0.00
37 T	Ethyl Acetate	50.000	53.172	-6.3	90	0.00
38 T	Carbon Tetrachloride	50.000	54.202	-8.4	90	0.00
39 T	Methylcyclohexane	50.000	48.955	2.1	77	0.00
40 TM	Benzene	50.000	54.796	-9.6	91	0.00
41 T	Methacrylonitrile	50.000	56.424	-12.8	91	0.00
42 TM	1,2-Dichloroethane	50.000	54.240	-8.5	90	0.00
43 T	Isopropyl Acetate	50.000	46.197	7.6	86	0.00
44 TM	Trichloroethene	50.000	53.784	-7.6	89	0.00
45 C	1,2-Dichloropropane	50.000	56.873	-13.7#	92	0.00
46 T	Dibromomethane	50.000	59.706	-19.4	95	0.00
47 T	Bromodichloromethane	50.000	57.235	-14.5	94	0.00
48 T	Methyl methacrylate	50.000	55.960	-11.9	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084428.D
 Acq On : 21 Oct 2024 11:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 22 01:29:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	1259.594	-26.0#	105	0.00
50 S	Toluene-d8	50.000	59.014	-18.0	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	308.066	-23.2	98	0.00
52 CM	Toluene	50.000	56.231	-12.5#	91	0.00
53 T	t-1,3-Dichloropropene	50.000	55.712	-11.4	88	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.089	-12.2	88	0.00
55 T	1,1,2-Trichloroethane	50.000	60.910	-21.8	98	0.00
56 T	Ethyl methacrylate	50.000	58.283	-16.6	90	0.00
57 T	1,3-Dichloropropane	50.000	57.670	-15.3	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	303.996	-21.6	93	0.00
59 T	2-Hexanone	250.000	304.908	-22.0	95	0.00
60 T	Dibromochloromethane	50.000	60.458	-20.9	96	0.00
61 T	1,2-Dibromoethane	50.000	57.274	-14.5	94	0.00
62 S	4-Bromofluorobenzene	50.000	59.102	-18.2	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64 T	Tetrachloroethene	50.000	52.523	-5.0	94	0.00
65 PM	Chlorobenzene	50.000	53.283	-6.6	93	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.468	-10.9	97	0.00
67 C	Ethyl Benzene	50.000	52.799	-5.6#	90	0.00
68 T	m/p-Xylenes	100.000	111.301	-11.3	92	0.00
69 T	o-Xylene	50.000	55.767	-11.5	91	0.00
70 T	Styrene	50.000	58.246	-16.5	95	0.00
71 P	Bromoform	50.000	59.072	-18.1	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	49.760	0.5	92	0.00
74 T	N-ethyl acetate	50.000	46.332	7.3	86	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.226	-4.5	101	0.00
76 T	1,2,3-Trichloropropane	50.000	48.846	2.3	89	0.00
77 T	Bromobenzene	50.000	50.631	-1.3	98	0.00
78 T	n-propylbenzene	50.000	51.101	-2.2	92	0.00
79 T	2-Chlorotoluene	50.000	49.256	1.5	92	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.460	-4.9	93	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.835	-7.7	102	0.00
82 T	4-Chlorotoluene	50.000	50.275	-0.5	94	0.00
83 T	tert-Butylbenzene	50.000	49.862	0.3	91	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.722	-5.4	94	0.00
85 T	sec-Butylbenzene	50.000	52.226	-4.5	93	0.00
86 T	p-Isopropyltoluene	50.000	52.906	-5.8	92	0.00
87 T	1,3-Dichlorobenzene	50.000	51.493	-3.0	99	0.00
88 T	1,4-Dichlorobenzene	50.000	50.322	-0.6	98	0.00
89 T	n-Butylbenzene	50.000	49.495	1.0	89	0.00
90 T	Hexachloroethane	50.000	48.204	3.6	93	0.00
91 T	1,2-Dichlorobenzene	50.000	50.991	-2.0	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.657	0.7	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.373	-2.7	92	0.00
94 T	Hexachlorobutadiene	50.000	47.838	4.3	100	0.00
95 T	Naphthalene	50.000	51.214	-2.4	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084428.D
Acq On : 21 Oct 2024 11:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 22 01:29:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	52.021	-4.0	97	0.00

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



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/22/2024 10:01

Lab File ID: VY019969.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.412		-11.4	20
Chloromethane	0.606	0.611	0.1	0.82	20
Vinyl Chloride	0.667	0.698		4.65	20
Bromomethane	0.422	0.448		6.16	20
Chloroethane	0.448	0.490		9.38	20
Trichlorofluoromethane	0.992	0.995		0.3	20
1,1,2-Trichlorotrifluoroethane	0.577	0.592		2.6	20
1,1-Dichloroethene	0.536	0.519		-3.17	20
Acetone	0.160	0.189		18.13	20
Carbon Disulfide	1.438	1.228		-14.6	20
Methyl tert-butyl Ether	1.541	1.675		8.7	20
Methyl Acetate	0.345	0.403		16.81	20
Methylene Chloride	0.647	0.636		-1.7	20
trans-1,2-Dichloroethene	0.584	0.602		3.08	20
1,1-Dichloroethane	1.172	1.328	0.1	13.31	20
Cyclohexane	1.029	0.985		-4.28	20
2-Butanone	0.215	0.241		12.09	20
Carbon Tetrachloride	0.510	0.544		6.67	20
cis-1,2-Dichloroethene	0.721	0.769		6.66	20
Bromochloromethane	0.516	0.570		10.47	20
Chloroform	1.195	1.359		13.72	20
1,1,1-Trichloroethane	1.047	1.132		8.12	20
Methylcyclohexane	0.599	0.592		-1.17	20
Benzene	1.439	1.559		8.34	20
1,2-Dichloroethane	0.413	0.460		11.38	20
Trichloroethene	0.348	0.357		2.59	20
1,2-Dichloropropane	0.360	0.412		14.44	20
Bromodichloromethane	0.522	0.599		14.75	20
4-Methyl-2-Pentanone	0.258	0.298		15.5	20
Toluene	0.898	0.990		10.24	20
t-1,3-Dichloropropene	0.470	0.521		10.85	20
cis-1,3-Dichloropropene	0.554	0.612		10.47	20
1,1,2-Trichloroethane	0.259	0.294		13.51	20
2-Hexanone	0.184	0.216		17.39	20
Dibromochloromethane	0.333	0.370		11.11	20
1,2-Dibromoethane	0.234	0.254		8.55	20
Tetrachloroethene	0.356	0.348		-2.25	20
Chlorobenzene	1.144	1.235	0.3	7.95	20

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



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/22/2024 10:01

Lab File ID: VY019969.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.295		10.5	20
m/p-Xylenes	0.767	0.833		8.6	20
o-Xylene	0.737	0.816		10.72	20
Styrene	1.244	1.389		11.66	20
Bromoform	0.207	0.229	0.1	10.63	20
Isopropylbenzene	4.206	4.428		5.28	20
1,1,2,2-Tetrachloroethane	0.747	0.811	0.3	8.57	20
1,3-Dichlorobenzene	1.802	1.882		4.44	20
1,4-Dichlorobenzene	1.771	1.856		4.8	20
1,2-Dichlorobenzene	1.584	1.660		4.8	20
1,2-Dibromo-3-Chloropropane	0.119	0.123		3.36	20
1,2,4-Trichlorobenzene	0.888	0.895		0.79	20
1,2,3-Trichlorobenzene	0.751	0.751		0	20
1,2-Dichloroethane-d4	0.616	0.655		6.33	20
Dibromofluoromethane	0.330	0.352		6.67	20
Toluene-d8	1.218	1.252		2.79	20
4-Bromofluorobenzene	0.440	0.466		5.91	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_Y\Data\VY102224\
 Data File : VY019969.D
 Acq On : 22 Oct 2024 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben
 Patel
 10/23/2024
 Supervised By :Mahesh
 Dadoda
 10/23/2024

Quant Time: Oct 23 01:23:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	226762	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	399552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	348429	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	173474	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	148544	53.201	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.400%	
35) Dibromofluoromethane	7.640	113	140720	53.372	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.740%	
50) Toluene-d8	10.109	98	500190	51.372	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.740%	
62) 4-Bromofluorobenzene	12.402	95	186059	52.886	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 105.780%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.867	85	93373	44.232	ug/l	96
3) Chloromethane	2.074	50	138488	50.405	ug/l	99
4) Vinyl Chloride	2.208	62	158303	52.359	ug/l	97
5) Bromomethane	2.605	94	101642	53.113	ug/l	96
6) Chloroethane	2.739	64	111205	54.751	ug/l	100
7) Trichlorofluoromethane	3.062	101	225722	50.174	ug/l	94
8) Diethyl Ether	3.458	74	71941	52.616	ug/l	77
9) 1,1,2-Trichlorotrifluo...	3.818	101	134354	51.343	ug/l	91
10) Methyl Iodide	4.007	142	125223	47.315	ug/l	90
11) Tert butyl alcohol	4.866	59	52487	230.674	ug/l #	82
12) 1,1-Dichloroethene	3.799	96	117597	48.340	ug/l #	80
13) Acrolein	3.659	56	31866	155.320	ug/l	98
14) Allyl chloride	4.385	41	236930	53.979	ug/l #	89
15) Acrylonitrile	5.061	53	179394	286.854	ug/l	99
16) Acetone	3.873	43	213791	294.141	ug/l #	85
17) Carbon Disulfide	4.110	76	278526	42.715	ug/l	99
18) Methyl Acetate	4.391	43	91421	58.389	ug/l #	89
19) Methyl tert-butyl Ether	5.122	73	379909	54.358	ug/l	96
20) Methylene Chloride	4.616	84	144158	53.738	ug/l #	81
21) trans-1,2-Dichloroethene	5.122	96	136490	51.551	ug/l #	82
22) Diisopropyl ether	6.025	45	561889	58.770	ug/l #	91
23) Vinyl Acetate	5.964	43	1559578	284.542	ug/l #	91
24) 1,1-Dichloroethane	5.921	63	301102	56.655	ug/l	95
25) 2-Butanone	6.896	43	273450	281.071	ug/l #	83
26) 2,2-Dichloropropane	6.884	77	255759	54.037	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	174456	53.318	ug/l	81
28) Bromochloromethane	7.250	49	129280	55.266	ug/l #	72
29) Tetrahydrofuran	7.262	42	155571	280.058	ug/l #	81
30) Chloroform	7.427	83	308145	56.878	ug/l	97
31) Cyclohexane	7.707	56	223349	47.875	ug/l	89
32) 1,1,1-Trichloroethane	7.622	97	256733	54.074	ug/l #	93
36) 1,1-Dichloropropene	7.835	75	202603	53.338	ug/l	93
37) Ethyl Acetate	6.988	43	110125	55.599	ug/l #	94
38) Carbon Tetrachloride	7.817	117	217255	53.352	ug/l	97
39) Methylcyclohexane	9.109	83	236697	49.455	ug/l #	87
40) Benzene	8.085	78	622880	54.183	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019969.D
 Acq On : 22 Oct 2024 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Romaben

Patel

10/23/2024

Supervised By :Mahesh

Dadoda

10/23/2024

Quant Time: Oct 23 01:23:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
41) Methacrylonitrile	7.226	41	63536	59.269	ug/l	#	83
42) 1,2-Dichloroethane	8.158	62	183751	55.638	ug/l		94
43) Isopropyl Acetate	8.195	43	222649	55.119	ug/l	#	78
44) Trichloroethene	8.866	130	142511	51.184	ug/l		89
45) 1,2-Dichloropropane	9.140	63	164544	57.186	ug/l		98
46) Dibromomethane	9.231	93	85101	54.134	ug/l		90
47) Bromodichloromethane	9.420	83	239372	57.366	ug/l		99
48) Methyl methacrylate	9.219	41	101583	57.170	ug/l	#	79
49) 1,4-Dioxane	9.231	88	17542	996.992	ug/l	#	87
51) 4-Methyl-2-Pentanone	10.000	43	595981	289.261	ug/l		88
52) Toluene	10.170	92	395386	55.100	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	207969	55.393	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	244680	55.231	ug/l	#	86
55) 1,1,2-Trichloroethane	10.573	97	117570	56.764	ug/l		94
56) Ethyl methacrylate	10.439	69	168319	56.636	ug/l	#	74
57) 1,3-Dichloropropane	10.719	76	204379	56.190	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	424435	306.775	ug/l		92
59) 2-Hexanone	10.762	43	431774	293.410	ug/l		86
60) Dibromochloromethane	10.908	129	147961	55.657	ug/l		99
61) 1,2-Dibromoethane	11.012	107	101465	54.212	ug/l		97
64) Tetrachloroethene	10.646	164	121263	48.929	ug/l		93
65) Chlorobenzene	11.438	112	430418	54.009	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	148308	55.004	ug/l		99
67) Ethyl Benzene	11.518	91	799637	55.236	ug/l		99
68) m/p-Xylenes	11.627	106	580428	108.561	ug/l		92
69) o-Xylene	11.950	106	284413	55.365	ug/l		92
70) Styrene	11.969	104	483902	55.833	ug/l		95
71) Bromoform	12.133	173	79883	55.343	ug/l	#	98
73) Isopropylbenzene	12.255	105	768095	52.640	ug/l		98
74) N-amyl acetate	12.072	43	210627	54.501	ug/l	#	85
75) 1,1,2,2-Tetrachloroethane	12.505	83	140747	54.285	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	100222m	29.491	ug/l		
77) Bromobenzene	12.530	156	157446	50.848	ug/l		82
78) n-propylbenzene	12.597	91	949805	53.871	ug/l		97
79) 2-Chlorotoluene	12.676	91	538729	53.298	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	619596	52.580	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.304	75	44228	52.532	ug/l	#	83
82) 4-Chlorotoluene	12.773	91	555163	53.716	ug/l		95
83) tert-Butylbenzene	12.999	119	581000	55.037	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	626187	53.598	ug/l		96
85) sec-Butylbenzene	13.176	105	860118	54.533	ug/l		97
86) p-Isopropyltoluene	13.292	119	684911	53.477	ug/l		96
87) 1,3-Dichlorobenzene	13.286	146	326494	52.214	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	321997	52.417	ug/l		97
89) n-Butylbenzene	13.615	91	693090	55.421	ug/l		98
90) Hexachloroethane	13.877	117	137479	55.126	ug/l		85
91) 1,2-Dichlorobenzene	13.657	146	287945	52.408	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	21396	51.708	ug/l		75
93) 1,2,4-Trichlorobenzene	14.919	180	155214	50.381	ug/l		98
94) Hexachlorobutadiene	15.023	225	84209	49.164	ug/l		96
95) Naphthalene	15.145	128	297239	51.155	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	130333	50.045	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019969.D
Acq On : 22 Oct 2024 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben
Patel

10/23/2024

Supervised By :Mahesh
Dadoda

10/23/2024

Quant Time: Oct 23 01:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019969.D
Acq On : 22 Oct 2024 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

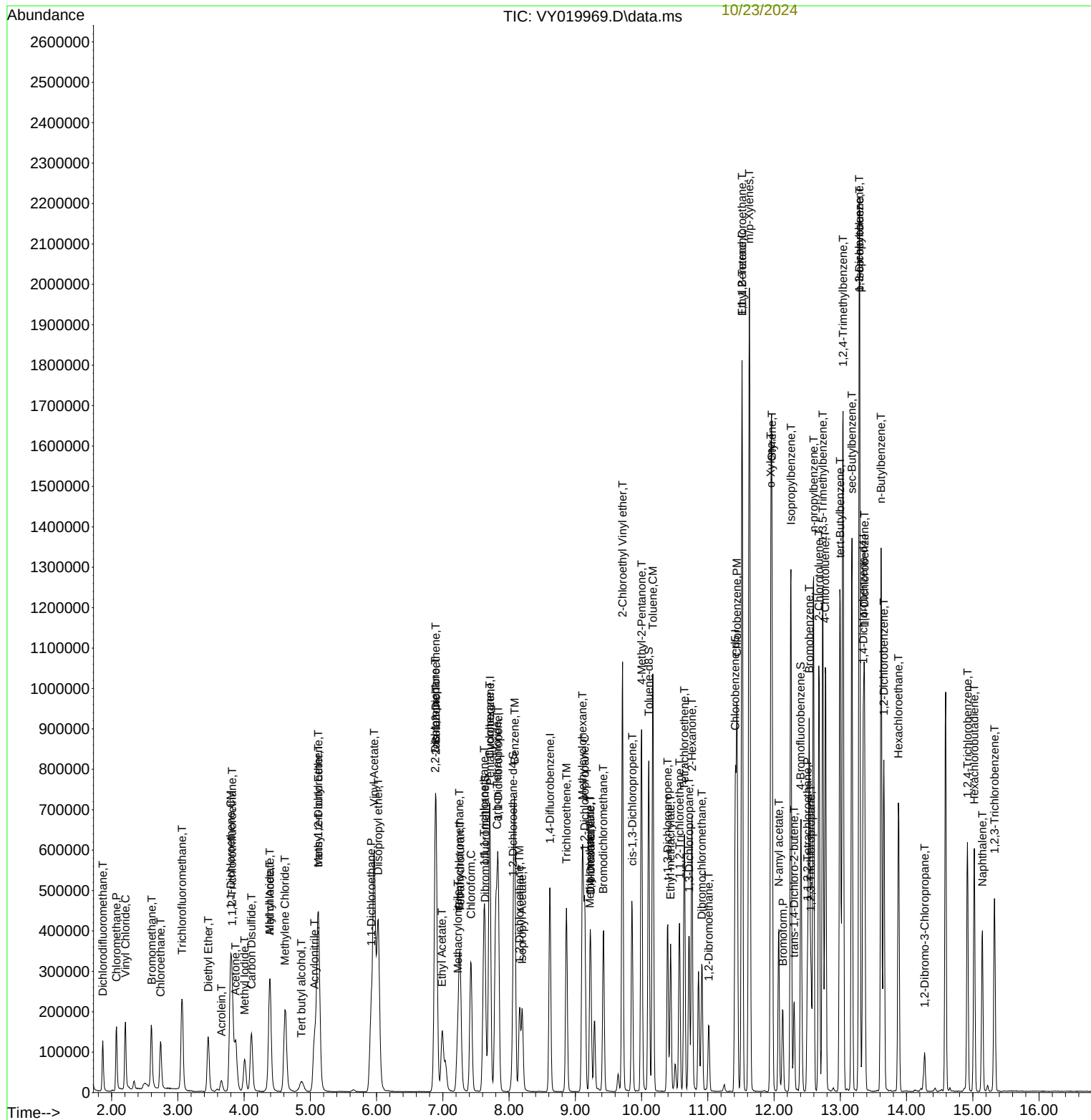
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :Romaben
Patel

Supervised By :Mañesh
Dadoda
10/23/2024

Quant Time: Oct 23 01:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019969.D
 Acq On : 22 Oct 2024 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 23 01:23:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	60	0.00
2 T	Dichlorodifluoromethane	0.465	0.412	11.4	54	0.00
3 P	Chloromethane	0.606	0.611	-0.8	60	0.00
4 C	Vinyl Chloride	0.667	0.698	-4.6#	61	0.00
5 T	Bromomethane	0.422	0.448	-6.2	62	0.00
6 T	Chloroethane	0.448	0.490	-9.4	65	0.00
7 T	Trichlorofluoromethane	0.992	0.995	-0.3	60	0.00
8 T	Diethyl Ether	0.301	0.317	-5.3	61	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.592	-2.6	61	0.00
10 T	Methyl Iodide	0.584	0.552	5.5	53	0.00
11 T	Tert butyl alcohol	0.058	0.046	20.7	55	0.00
12 CM	1,1-Dichloroethene	0.536	0.519	3.2#	57	0.01
13 T	Acrolein	0.045	0.028	37.8#	42#	0.00
14 T	Allyl chloride	0.968	1.045	-8.0	62	0.00
15 T	Acrylonitrile	0.138	0.158	-14.5	66	0.00
16 T	Acetone	0.160	0.189	-18.1	67	0.00
17 T	Carbon Disulfide	1.438	1.228	14.6	48#	0.00
18 T	Methyl Acetate	0.345	0.403	-16.8	69	0.00
19 T	Methyl tert-butyl Ether	1.541	1.675	-8.7	64	0.00
20 T	Methylene Chloride	0.647	0.636	1.7	62	0.00
21 T	trans-1,2-Dichloroethene	0.584	0.602	-3.1	60	0.01
22 T	Diisopropyl ether	2.108	2.478	-17.6	69	0.00
23 T	Vinyl Acetate	1.209	1.376	-13.8	65	0.00
24 P	1,1-Dichloroethane	1.172	1.328	-13.3	67	0.00
25 T	2-Butanone	0.215	0.241	-12.1	66	0.00
26 T	2,2-Dichloropropane	1.044	1.128	-8.0	65	0.00
27 T	cis-1,2-Dichloroethene	0.721	0.769	-6.7	63	0.00
28 T	Bromochloromethane	0.516	0.570	-10.5	65	0.00
29 T	Tetrahydrofuran	0.122	0.137	-12.3	65	0.00
30 C	Chloroform	1.195	1.359	-13.7#	67	0.00
31 T	Cyclohexane	1.029	0.985	4.3	59	0.00
32 T	1,1,1-Trichloroethane	1.047	1.132	-8.1	64	0.00
33 S	1,2-Dichloroethane-d4	0.616	0.655	-6.3	68	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	61	0.00
35 S	Dibromofluoromethane	0.330	0.352	-6.7	67	0.00
36 T	1,1-Dichloropropene	0.475	0.507	-6.7	63	0.00
37 T	Ethyl Acetate	0.248	0.276	-11.3	65	0.00
38 T	Carbon Tetrachloride	0.510	0.544	-6.7	63	0.00
39 T	Methylcyclohexane	0.599	0.592	1.2	58	0.00
40 TM	Benzene	1.439	1.559	-8.3	64	0.00
41 T	Methacrylonitrile	0.134	0.159	-18.7	63	0.00
42 TM	1,2-Dichloroethane	0.413	0.460	-11.4	65	0.00
43 T	Isopropyl Acetate	0.505	0.557	-10.3	65	0.00
44 TM	Trichloroethene	0.348	0.357	-2.6	60	0.00
45 C	1,2-Dichloropropane	0.360	0.412	-14.4#	69	0.00
46 T	Dibromomethane	0.197	0.213	-8.1	64	0.00
47 T	Bromodichloromethane	0.522	0.599	-14.8	68	0.00
48 T	Methyl methacrylate	0.222	0.254	-14.4	66	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019969.D
 Acq On : 22 Oct 2024 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 23 01:23:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	0.002	0.002	0.0	57	0.00
50 S	Toluene-d8	1.218	1.252	-2.8	65	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.298	-15.5	68	0.00
52 CM	Toluene	0.898	0.990	-10.2#	64	0.00
53 T	t-1,3-Dichloropropene	0.470	0.521	-10.9	64	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.612	-10.5	65	0.00
55 T	1,1,2-Trichloroethane	0.259	0.294	-13.5	67	0.00
56 T	Ethyl methacrylate	0.372	0.421	-13.2	64	0.00
57 T	1,3-Dichloropropane	0.455	0.512	-12.5	66	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.212	-22.5	76	0.00
59 T	2-Hexanone	0.184	0.216	-17.4	67	0.00
60 T	Dibromochloromethane	0.333	0.370	-11.1	66	0.00
61 T	1,2-Dibromoethane	0.234	0.254	-8.5	63	0.00
62 S	4-Bromofluorobenzene	0.440	0.466	-5.9	67	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	62	0.00
64 T	Tetrachloroethene	0.356	0.348	2.2	59	0.00
65 PM	Chlorobenzene	1.144	1.235	-8.0	65	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.426	-10.1	66	0.00
67 C	Ethyl Benzene	2.077	2.295	-10.5#	66	0.00
68 T	m/p-Xylenes	0.767	0.833	-8.6	65	0.00
69 T	o-Xylene	0.737	0.816	-10.7	66	0.00
70 T	Styrene	1.244	1.389	-11.7	66	0.00
71 P	Bromoform	0.207	0.229	-10.6	65	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	64	0.00
73 T	Isopropylbenzene	4.206	4.428	-5.3	66	0.00
74 T	N-amyl acetate	1.114	1.214	-9.0	66	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.811	-8.6	68	0.00
76 T	1,2,3-Trichloropropane	0.979	0.578	41.0#	37#	0.00
77 T	Bromobenzene	0.892	0.908	-1.8	63	0.00
78 T	n-propylbenzene	5.082	5.475	-7.7	67	0.00
79 T	2-Chlorotoluene	2.913	3.106	-6.6	67	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.572	-5.2	66	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.255	-4.9	65	0.00
82 T	4-Chlorotoluene	2.979	3.200	-7.4	67	0.00
83 T	tert-Butylbenzene	3.043	3.349	-10.1	69	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.610	-7.2	66	0.00
85 T	sec-Butylbenzene	4.546	4.958	-9.1	67	0.00
86 T	p-Isopropyltoluene	3.691	3.948	-7.0	66	0.00
87 T	1,3-Dichlorobenzene	1.802	1.882	-4.4	66	0.00
88 T	1,4-Dichlorobenzene	1.771	1.856	-4.8	66	0.00
89 T	n-Butylbenzene	3.605	3.995	-10.8	67	0.00
90 T	Hexachloroethane	0.719	0.793	-10.3	68	0.00
91 T	1,2-Dichlorobenzene	1.584	1.660	-4.8	66	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.123	-3.4	65	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.895	-0.8	59	0.00
94 T	Hexachlorobutadiene	0.494	0.485	1.8	58	0.00
95 T	Naphthalene	1.675	1.713	-2.3	59	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019969.D
Acq On : 22 Oct 2024 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	0.751	0.751	0.0	58	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019969.D
 Acq On : 22 Oct 2024 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 23 01:23:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	60	0.00
2 T	Dichlorodifluoromethane	50.000	44.232	11.5	54	0.00
3 P	Chloromethane	50.000	50.405	-0.8	60	0.00
4 C	Vinyl Chloride	50.000	52.359	-4.7#	61	0.00
5 T	Bromomethane	50.000	53.113	-6.2	62	0.00
6 T	Chloroethane	50.000	54.751	-9.5	65	0.00
7 T	Trichlorofluoromethane	50.000	50.174	-0.3	60	0.00
8 T	Diethyl Ether	50.000	52.616	-5.2	61	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.343	-2.7	61	0.00
10 T	Methyl Iodide	50.000	47.315	5.4	53	0.00
11 T	Tert butyl alcohol	250.000	230.674	7.7	55	0.00
12 CM	1,1-Dichloroethene	50.000	48.340	3.3#	57	0.01
13 T	Acrolein	250.000	155.320	37.9#	42	0.00
14 T	Allyl chloride	50.000	53.979	-8.0	62	0.00
15 T	Acrylonitrile	250.000	286.854	-14.7	66	0.00
16 T	Acetone	250.000	294.141	-17.7	67	0.00
17 T	Carbon Disulfide	50.000	42.715	14.6	48	0.00
18 T	Methyl Acetate	50.000	58.389	-16.8	69	0.00
19 T	Methyl tert-butyl Ether	50.000	54.358	-8.7	64	0.00
20 T	Methylene Chloride	50.000	53.738	-7.5	62	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.551	-3.1	60	0.01
22 T	Diisopropyl ether	50.000	58.770	-17.5	69	0.00
23 T	Vinyl Acetate	250.000	284.542	-13.8	65	0.00
24 P	1,1-Dichloroethane	50.000	56.655	-13.3	67	0.00
25 T	2-Butanone	250.000	281.071	-12.4	66	0.00
26 T	2,2-Dichloropropane	50.000	54.037	-8.1	65	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.318	-6.6	63	0.00
28 T	Bromochloromethane	50.000	55.266	-10.5	65	0.00
29 T	Tetrahydrofuran	250.000	280.058	-12.0	65	0.00
30 C	Chloroform	50.000	56.878	-13.8#	67	0.00
31 T	Cyclohexane	50.000	47.875	4.3	59	0.00
32 T	1,1,1-Trichloroethane	50.000	54.074	-8.1	64	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.201	-6.4	68	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	61	0.00
35 S	Dibromofluoromethane	50.000	53.372	-6.7	67	0.00
36 T	1,1-Dichloropropene	50.000	53.338	-6.7	63	0.00
37 T	Ethyl Acetate	50.000	55.599	-11.2	65	0.00
38 T	Carbon Tetrachloride	50.000	53.352	-6.7	63	0.00
39 T	Methylcyclohexane	50.000	49.455	1.1	58	0.00
40 TM	Benzene	50.000	54.183	-8.4	64	0.00
41 T	Methacrylonitrile	50.000	59.269	-18.5	63	0.00
42 TM	1,2-Dichloroethane	50.000	55.638	-11.3	65	0.00
43 T	Isopropyl Acetate	50.000	55.119	-10.2	65	0.00
44 TM	Trichloroethene	50.000	51.184	-2.4	60	0.00
45 C	1,2-Dichloropropane	50.000	57.186	-14.4#	69	0.00
46 T	Dibromomethane	50.000	54.134	-8.3	64	0.00
47 T	Bromodichloromethane	50.000	57.366	-14.7	68	0.00
48 T	Methyl methacrylate	50.000	57.170	-14.3	66	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019969.D
 Acq On : 22 Oct 2024 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 23 01:23:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	996.992	0.3	57	0.00
50 S	Toluene-d8	50.000	51.372	-2.7	65	0.00
51 T	4-Methyl-2-Pentanone	250.000	289.261	-15.7	68	0.00
52 CM	Toluene	50.000	55.100	-10.2#	64	0.00
53 T	t-1,3-Dichloropropene	50.000	55.393	-10.8	64	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.231	-10.5	65	0.00
55 T	1,1,2-Trichloroethane	50.000	56.764	-13.5	67	0.00
56 T	Ethyl methacrylate	50.000	56.636	-13.3	64	0.00
57 T	1,3-Dichloropropane	50.000	56.190	-12.4	66	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	306.775	-22.7	76	0.00
59 T	2-Hexanone	250.000	293.410	-17.4	67	0.00
60 T	Dibromochloromethane	50.000	55.657	-11.3	66	0.00
61 T	1,2-Dibromoethane	50.000	54.212	-8.4	63	0.00
62 S	4-Bromofluorobenzene	50.000	52.886	-5.8	67	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	62	0.00
64 T	Tetrachloroethene	50.000	48.929	2.1	59	0.00
65 PM	Chlorobenzene	50.000	54.009	-8.0	65	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.004	-10.0	66	0.00
67 C	Ethyl Benzene	50.000	55.236	-10.5#	66	0.00
68 T	m/p-Xylenes	100.000	108.561	-8.6	65	0.00
69 T	o-Xylene	50.000	55.365	-10.7	66	0.00
70 T	Styrene	50.000	55.833	-11.7	66	0.00
71 P	Bromoform	50.000	55.343	-10.7	65	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	64	0.00
73 T	Isopropylbenzene	50.000	52.640	-5.3	66	0.00
74 T	N-ethyl acetate	50.000	54.501	-9.0	66	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	54.285	-8.6	68	0.00
76 T	1,2,3-Trichloropropane	50.000	29.491	41.0#	37	0.00
77 T	Bromobenzene	50.000	50.848	-1.7	63	0.00
78 T	n-propylbenzene	50.000	53.871	-7.7	67	0.00
79 T	2-Chlorotoluene	50.000	53.298	-6.6	67	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.580	-5.2	66	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.532	-5.1	65	0.00
82 T	4-Chlorotoluene	50.000	53.716	-7.4	67	0.00
83 T	tert-Butylbenzene	50.000	55.037	-10.1	69	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.598	-7.2	66	0.00
85 T	sec-Butylbenzene	50.000	54.533	-9.1	67	0.00
86 T	p-Isopropyltoluene	50.000	53.477	-7.0	66	0.00
87 T	1,3-Dichlorobenzene	50.000	52.214	-4.4	66	0.00
88 T	1,4-Dichlorobenzene	50.000	52.417	-4.8	66	0.00
89 T	n-Butylbenzene	50.000	55.421	-10.8	67	0.00
90 T	Hexachloroethane	50.000	55.126	-10.3	68	0.00
91 T	1,2-Dichlorobenzene	50.000	52.408	-4.8	66	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.708	-3.4	65	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.381	-0.8	59	0.00
94 T	Hexachlorobutadiene	50.000	49.164	1.7	58	0.00
95 T	Naphthalene	50.000	51.155	-2.3	59	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019969.D
Acq On : 22 Oct 2024 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:23:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	50.045	-0.1	58	0.00

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



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/23/2024 10:58

Lab File ID: VY019985.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.411		-11.61	20
Chloromethane	0.606	0.604	0.1	-0.33	20
Vinyl Chloride	0.667	0.694		4.05	20
Bromomethane	0.422	0.448		6.16	20
Chloroethane	0.448	0.492		9.82	20
Trichlorofluoromethane	0.992	1.072		8.06	20
1,1,2-Trichlorotrifluoroethane	0.577	0.622		7.8	20
1,1-Dichloroethene	0.536	0.538		0.37	20
Acetone	0.160	0.176		10	20
Carbon Disulfide	1.438	1.233		-14.26	20
Methyl tert-butyl Ether	1.541	1.661		7.79	20
Methyl Acetate	0.345	0.377		9.27	20
Methylene Chloride	0.647	0.640		-1.08	20
trans-1,2-Dichloroethene	0.584	0.603		3.25	20
1,1-Dichloroethane	1.172	1.359	0.1	15.96	20
Cyclohexane	1.029	1.019		-0.97	20
2-Butanone	0.215	0.227		5.58	20
Carbon Tetrachloride	0.510	0.557		9.22	20
cis-1,2-Dichloroethene	0.721	0.807		11.93	20
Bromochloromethane	0.516	0.604		17.05	20
Chloroform	1.195	1.409		17.91	20
1,1,1-Trichloroethane	1.047	1.201		14.71	20
Methylcyclohexane	0.599	0.618		3.17	20
Benzene	1.439	1.569		9.03	20
1,2-Dichloroethane	0.413	0.455		10.17	20
Trichloroethene	0.348	0.364		4.6	20
1,2-Dichloropropane	0.360	0.404		12.22	20
Bromodichloromethane	0.522	0.598		14.56	20
4-Methyl-2-Pentanone	0.258	0.275		6.59	20
Toluene	0.898	0.993		10.58	20
t-1,3-Dichloropropene	0.470	0.510		8.51	20
cis-1,3-Dichloropropene	0.554	0.608		9.75	20
1,1,2-Trichloroethane	0.259	0.272		5.02	20
2-Hexanone	0.184	0.198		7.61	20
Dibromochloromethane	0.333	0.364		9.31	20
1,2-Dibromoethane	0.234	0.242		3.42	20
Tetrachloroethene	0.356	0.354		-0.56	20
Chlorobenzene	1.144	1.251	0.3	9.35	20

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



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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/23/2024 10:58

Lab File ID: VY019985.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.355		13.39	20
m/p-Xylenes	0.767	0.864		12.65	20
o-Xylene	0.737	0.825		11.94	20
Styrene	1.244	1.413		13.59	20
Bromoform	0.207	0.221	0.1	6.76	20
Isopropylbenzene	4.206	4.708		11.94	20
1,1,2,2-Tetrachloroethane	0.747	0.789	0.3	5.62	20
1,3-Dichlorobenzene	1.802	1.923		6.72	20
1,4-Dichlorobenzene	1.771	1.886		6.49	20
1,2-Dichlorobenzene	1.584	1.705		7.64	20
1,2-Dibromo-3-Chloropropane	0.119	0.119		0	20
1,2,4-Trichlorobenzene	0.888	0.935		5.29	20
1,2,3-Trichlorobenzene	0.751	0.768		2.26	20
1,2-Dichloroethane-d4	0.616	0.728		18.18	20
Dibromofluoromethane	0.330	0.395		19.7	20
Toluene-d8	1.218	1.417		16.34	20
4-Bromofluorobenzene	0.440	0.515		17.05	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_Y\Data\VY102324\
 Data File : VY019985.D
 Acq On : 23 Oct 2024 10:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/24/2024
 Supervised By :Semsettin Yesilyurt 10/24/2024

Quant Time: Oct 23 23:03:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	247993	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	444115	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	376691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	183428	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180558	59.131	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.260%			
35) Dibromofluoromethane	7.634	113	175329	59.826	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 119.660%			
50) Toluene-d8	10.109	98	629519	58.167	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 116.340%			
62) 4-Bromofluorobenzene	12.402	95	228758	58.498	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 117.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	101924	44.149	ug/l	98
3) Chloromethane	2.074	50	149899	49.888	ug/l	99
4) Vinyl Chloride	2.208	62	172110	52.052	ug/l	100
5) Bromomethane	2.598	94	111207	53.136	ug/l	97
6) Chloroethane	2.739	64	121964	54.907	ug/l	98
7) Trichlorofluoromethane	3.062	101	265858	54.036	ug/l	99
8) Diethyl Ether	3.458	74	77779	52.016	ug/l	79
9) 1,1,2-Trichlorotrifluo...	3.818	101	154356	53.937	ug/l	90
10) Methyl Iodide	4.007	142	137415	47.477	ug/l #	89
11) Tert butyl alcohol	4.860	59	57658	231.791	ug/l #	80
12) 1,1-Dichloroethene	3.793	96	133520	50.187	ug/l #	77
13) Acrolein	3.659	56	34228	152.550	ug/l	100
14) Allyl chloride	4.385	41	261837	54.546	ug/l #	89
15) Acrylonitrile	5.061	53	186127	272.141	ug/l	98
16) Acetone	3.873	43	218102	274.383	ug/l #	83
17) Carbon Disulfide	4.110	76	305703	42.869	ug/l	100
18) Methyl Acetate	4.385	43	93443	54.571	ug/l	89
19) Methyl tert-butyl Ether	5.122	73	411798	53.877	ug/l	95
20) Methylene Chloride	4.616	84	158821	54.142	ug/l #	82
21) trans-1,2-Dichloroethene	5.116	96	149515	51.636	ug/l #	82
22) Diisopropyl ether	6.019	45	614261	58.748	ug/l #	91
23) Vinyl Acetate	5.964	43	1658957	276.761	ug/l #	90
24) 1,1-Dichloroethane	5.915	63	337057	57.991	ug/l	95
25) 2-Butanone	6.890	43	281510	264.584	ug/l #	82
26) 2,2-Dichloropropane	6.890	77	288226	55.683	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	200153	55.934	ug/l	84
28) Bromochloromethane	7.244	49	149900	58.595	ug/l #	71
29) Tetrahydrofuran	7.262	42	158820	261.430	ug/l #	81
30) Chloroform	7.421	83	349349	58.963	ug/l	99
31) Cyclohexane	7.701	56	252699	49.528	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	297864	57.366	ug/l	95
36) 1,1-Dichloropropene	7.835	75	230635	54.625	ug/l	93
37) Ethyl Acetate	6.988	43	112956	51.306	ug/l	94
38) Carbon Tetrachloride	7.817	117	247428	54.665	ug/l	99
39) Methylcyclohexane	9.109	83	274320	51.565	ug/l	88
40) Benzene	8.079	78	696926	54.541	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019985.D
 Acq On : 23 Oct 2024 10:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 10/24/2024

Supervised By :Semsettin Yesilyurt 10/24/2024

Quant Time: Oct 23 23:03:59 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 16 05:44:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	59618	50.034	ug/l	89
42) 1,2-Dichloroethane	8.158	62	202260	55.097	ug/l	93
43) Isopropyl Acetate	8.195	43	232650	51.816	ug/l #	77
44) Trichloroethene	8.866	130	161463	52.172	ug/l	87
45) 1,2-Dichloropropane	9.140	63	179444	56.107	ug/l	97
46) Dibromomethane	9.231	93	90638	51.870	ug/l	89
47) Bromodichloromethane	9.420	83	265688	57.283	ug/l	97
48) Methyl methacrylate	9.219	41	106624	53.986	ug/l #	80
49) 1,4-Dioxane	9.231	88	19625	1003.460	ug/l #	94
51) 4-Methyl-2-Pentanone	9.999	43	609795	266.268	ug/l	89
52) Toluene	10.170	92	440841	55.270	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	226370	54.244	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	269958	54.823	ug/l #	82
55) 1,1,2-Trichloroethane	10.573	97	120818	52.479	ug/l	94
56) Ethyl methacrylate	10.438	69	176673	53.482	ug/l #	73
57) 1,3-Dichloropropane	10.713	76	218819	54.123	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	411378	267.502	ug/l	93
59) 2-Hexanone	10.762	43	439239	268.533	ug/l	86
60) Dibromochloromethane	10.914	129	161592	54.686	ug/l	100
61) 1,2-Dibromoethane	11.012	107	107403	51.627	ug/l	99
64) Tetrachloroethene	10.646	164	133464	49.812	ug/l	91
65) Chlorobenzene	11.438	112	471252	54.696	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	163034	55.929	ug/l	99
67) Ethyl Benzene	11.518	91	887134	56.682	ug/l	99
68) m/p-Xylenes	11.627	106	650716	112.576	ug/l	92
69) o-Xylene	11.956	106	310724	55.949	ug/l	91
70) Styrene	11.969	104	532136	56.792	ug/l	96
71) Bromoform	12.133	173	83261	53.355	ug/l #	97
73) Isopropylbenzene	12.255	105	863543	55.970	ug/l	98
74) N-amyl acetate	12.072	43	215840	52.819	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	144667	52.769	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	104500m	29.082	ug/l	
77) Bromobenzene	12.530	156	168814	51.561	ug/l	82
78) n-propylbenzene	12.597	91	1061857	56.958	ug/l	97
79) 2-Chlorotoluene	12.682	91	592271	55.415	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	693948	55.694	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.304	75	45841	51.493	ug/l #	83
82) 4-Chlorotoluene	12.773	91	610988	55.909	ug/l	94
83) tert-Butylbenzene	12.999	119	635137	56.900	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	691719	55.994	ug/l	95
85) sec-Butylbenzene	13.176	105	959289	57.520	ug/l	98
86) p-Isopropyltoluene	13.292	119	760305	56.142	ug/l	95
87) 1,3-Dichlorobenzene	13.285	146	352651	53.337	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	345865	53.247	ug/l	97
89) n-Butylbenzene	13.615	91	771774	58.364	ug/l	98
90) Hexachloroethane	13.883	117	150334	57.010	ug/l	86
91) 1,2-Dichlorobenzene	13.657	146	312786	53.840	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	21746	49.702	ug/l	74
93) 1,2,4-Trichlorobenzene	14.919	180	171570	52.668	ug/l	96
94) Hexachlorobutadiene	15.023	225	94530	52.195	ug/l	98
95) Naphthalene	15.145	128	311883	50.762	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	140862	51.153	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019985.D
Acq On : 23 Oct 2024 10:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/24/2024
Supervised By :Semsettin Yesilyurt 10/24/2024

Quant Time: Oct 23 23:03:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

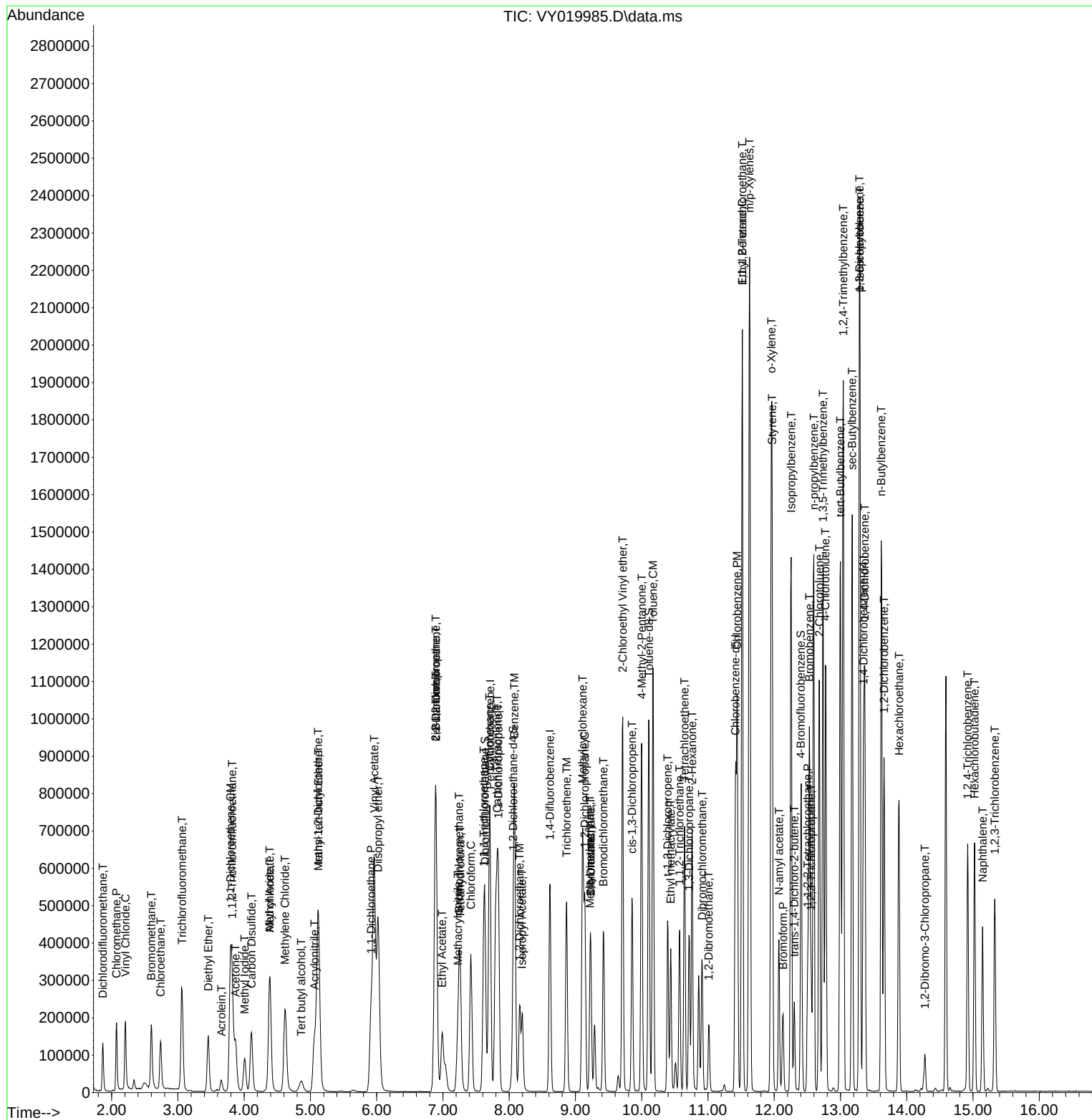
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
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Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/24/2024
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Quant Time: Oct 23 23:03:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	66	0.00
2 T	Dichlorodifluoromethane	0.465	0.411	11.6	59	0.00
3 P	Chloromethane	0.606	0.604	0.3	65	0.00
4 C	Vinyl Chloride	0.667	0.694	-4.0#	66	0.00
5 T	Bromomethane	0.422	0.448	-6.2	68	0.00
6 T	Chloroethane	0.448	0.492	-9.8	71	0.00
7 T	Trichlorofluoromethane	0.992	1.072	-8.1	71	0.00
8 T	Diethyl Ether	0.301	0.314	-4.3	66	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.622	-7.8	71	0.00
10 T	Methyl Iodide	0.584	0.554	5.1	58	0.00
11 T	Tert butyl alcohol	0.058	0.046	20.7	61	0.00
12 CM	1,1-Dichloroethene	0.536	0.538	-0.4#	65	0.00
13 T	Acrolein	0.045	0.028	37.8#	46#	0.00
14 T	Allyl chloride	0.968	1.056	-9.1	69	0.00
15 T	Acrylonitrile	0.138	0.150	-8.7	69	0.00
16 T	Acetone	0.160	0.176	-10.0	68	0.00
17 T	Carbon Disulfide	1.438	1.233	14.3	52	0.00
18 T	Methyl Acetate	0.345	0.377	-9.3	71	0.00
19 T	Methyl tert-butyl Ether	1.541	1.661	-7.8	69	0.00
20 T	Methylene Chloride	0.647	0.640	1.1	68	0.00
21 T	trans-1,2-Dichloroethene	0.584	0.603	-3.3	66	0.00
22 T	Diisopropyl ether	2.108	2.477	-17.5	75	0.00
23 T	Vinyl Acetate	1.209	1.338	-10.7	69	0.00
24 P	1,1-Dichloroethane	1.172	1.359	-16.0	74	0.00
25 T	2-Butanone	0.215	0.227	-5.6	67	0.00
26 T	2,2-Dichloropropane	1.044	1.162	-11.3	73	0.00
27 T	cis-1,2-Dichloroethene	0.721	0.807	-11.9	72	0.00
28 T	Bromochloromethane	0.516	0.604	-17.1	75	0.00
29 T	Tetrahydrofuran	0.122	0.128	-4.9	66	0.00
30 C	Chloroform	1.195	1.409	-17.9#	76	0.00
31 T	Cyclohexane	1.029	1.019	1.0	66	0.00
32 T	1,1,1-Trichloroethane	1.047	1.201	-14.7	74	0.00
33 S	1,2-Dichloroethane-d4	0.616	0.728	-18.2	83	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	68	0.00
35 S	Dibromofluoromethane	0.330	0.395	-19.7	84	0.00
36 T	1,1-Dichloropropene	0.475	0.519	-9.3	71	0.00
37 T	Ethyl Acetate	0.248	0.254	-2.4	67	0.00
38 T	Carbon Tetrachloride	0.510	0.557	-9.2	72	0.00
39 T	Methylcyclohexane	0.599	0.618	-3.2	67	0.00
40 TM	Benzene	1.439	1.569	-9.0	72	0.00
41 T	Methacrylonitrile	0.134	0.134	0.0	59	0.00
42 TM	1,2-Dichloroethane	0.413	0.455	-10.2	72	0.00
43 T	Isopropyl Acetate	0.505	0.524	-3.8	68	0.00
44 TM	Trichloroethene	0.348	0.364	-4.6	68	0.00
45 C	1,2-Dichloropropane	0.360	0.404	-12.2#	75	0.00
46 T	Dibromomethane	0.197	0.204	-3.6	68	0.00
47 T	Bromodichloromethane	0.522	0.598	-14.6	75	0.00
48 T	Methyl methacrylate	0.222	0.240	-8.1	69	0.00

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 LabSampleId :
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 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	0.002	0.002	0.0	63	0.00
50 S	Toluene-d8	1.218	1.417	-16.3	81	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.275	-6.6	69	0.00
52 CM	Toluene	0.898	0.993	-10.6#	72	0.00
53 T	t-1,3-Dichloropropene	0.470	0.510	-8.5	70	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.608	-9.7	72	0.00
55 T	1,1,2-Trichloroethane	0.259	0.272	-5.0	69	0.00
56 T	Ethyl methacrylate	0.372	0.398	-7.0	67	0.00
57 T	1,3-Dichloropropane	0.455	0.493	-8.4	71	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.185	-6.9	74	0.00
59 T	2-Hexanone	0.184	0.198	-7.6	68	0.00
60 T	Dibromochloromethane	0.333	0.364	-9.3	72	0.00
61 T	1,2-Dibromoethane	0.234	0.242	-3.4	67	0.00
62 S	4-Bromofluorobenzene	0.440	0.515	-17.0	82	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
64 T	Tetrachloroethene	0.356	0.354	0.6	65	0.00
65 PM	Chlorobenzene	1.144	1.251	-9.4	72	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.433	-11.9	73	0.00
67 C	Ethyl Benzene	2.077	2.355	-13.4#	73	0.00
68 T	m/p-Xylenes	0.767	0.864	-12.6	73	0.00
69 T	o-Xylene	0.737	0.825	-11.9	72	0.00
70 T	Styrene	1.244	1.413	-13.6	73	0.00
71 P	Bromoform	0.207	0.221	-6.8	67	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00
73 T	Isopropylbenzene	4.206	4.708	-11.9	74	0.00
74 T	N-amyl acetate	1.114	1.177	-5.7	68	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.789	-5.6	70	0.00
76 T	1,2,3-Trichloropropane	0.979	0.570	41.8#	39#	0.00
77 T	Bromobenzene	0.892	0.920	-3.1	68	0.00
78 T	n-propylbenzene	5.082	5.789	-13.9	75	0.00
79 T	2-Chlorotoluene	2.913	3.229	-10.8	73	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.783	-11.4	74	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.250	-2.9	67	0.00
82 T	4-Chlorotoluene	2.979	3.331	-11.8	74	0.00
83 T	tert-Butylbenzene	3.043	3.463	-13.8	75	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.771	-12.0	73	0.00
85 T	sec-Butylbenzene	4.546	5.230	-15.0	75	0.00
86 T	p-Isopropyltoluene	3.691	4.145	-12.3	73	0.00
87 T	1,3-Dichlorobenzene	1.802	1.923	-6.7	71	0.00
88 T	1,4-Dichlorobenzene	1.771	1.886	-6.5	71	0.00
89 T	n-Butylbenzene	3.605	4.208	-16.7	74	0.00
90 T	Hexachloroethane	0.719	0.820	-14.0	75	0.00
91 T	1,2-Dichlorobenzene	1.584	1.705	-7.6	71	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.119	0.0	66	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.935	-5.3	65	0.00
94 T	Hexachlorobutadiene	0.494	0.515	-4.3	66	0.00
95 T	Naphthalene	1.675	1.700	-1.5	62	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019985.D
Acq On : 23 Oct 2024 10:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 23:03:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	0.751	0.768	-2.3	63	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019985.D
 Acq On : 23 Oct 2024 10:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 23 23:03:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	66	0.00
2 T	Dichlorodifluoromethane	50.000	44.149	11.7	59	0.00
3 P	Chloromethane	50.000	49.888	0.2	65	0.00
4 C	Vinyl Chloride	50.000	52.052	-4.1#	66	0.00
5 T	Bromomethane	50.000	53.136	-6.3	68	0.00
6 T	Chloroethane	50.000	54.907	-9.8	71	0.00
7 T	Trichlorofluoromethane	50.000	54.036	-8.1	71	0.00
8 T	Diethyl Ether	50.000	52.016	-4.0	66	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.937	-7.9	71	0.00
10 T	Methyl Iodide	50.000	47.477	5.0	58	0.00
11 T	Tert butyl alcohol	250.000	231.791	7.3	61	0.00
12 CM	1,1-Dichloroethene	50.000	50.187	-0.4#	65	0.00
13 T	Acrolein	250.000	152.550	39.0#	46	0.00
14 T	Allyl chloride	50.000	54.546	-9.1	69	0.00
15 T	Acrylonitrile	250.000	272.141	-8.9	69	0.00
16 T	Acetone	250.000	274.383	-9.8	68	0.00
17 T	Carbon Disulfide	50.000	42.869	14.3	52	0.00
18 T	Methyl Acetate	50.000	54.571	-9.1	71	0.00
19 T	Methyl tert-butyl Ether	50.000	53.877	-7.8	69	0.00
20 T	Methylene Chloride	50.000	54.142	-8.3	68	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.636	-3.3	66	0.00
22 T	Diisopropyl ether	50.000	58.748	-17.5	75	0.00
23 T	Vinyl Acetate	250.000	276.761	-10.7	69	0.00
24 P	1,1-Dichloroethane	50.000	57.991	-16.0	74	0.00
25 T	2-Butanone	250.000	264.584	-5.8	67	0.00
26 T	2,2-Dichloropropane	50.000	55.683	-11.4	73	0.00
27 T	cis-1,2-Dichloroethene	50.000	55.934	-11.9	72	0.00
28 T	Bromochloromethane	50.000	58.595	-17.2	75	0.00
29 T	Tetrahydrofuran	250.000	261.430	-4.6	66	0.00
30 C	Chloroform	50.000	58.963	-17.9#	76	0.00
31 T	Cyclohexane	50.000	49.528	0.9	66	0.00
32 T	1,1,1-Trichloroethane	50.000	57.366	-14.7	74	0.00
33 S	1,2-Dichloroethane-d4	50.000	59.131	-18.3	83	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	68	0.00
35 S	Dibromofluoromethane	50.000	59.826	-19.7	84	0.00
36 T	1,1-Dichloropropene	50.000	54.625	-9.3	71	0.00
37 T	Ethyl Acetate	50.000	51.306	-2.6	67	0.00
38 T	Carbon Tetrachloride	50.000	54.665	-9.3	72	0.00
39 T	Methylcyclohexane	50.000	51.565	-3.1	67	0.00
40 TM	Benzene	50.000	54.541	-9.1	72	0.00
41 T	Methacrylonitrile	50.000	50.034	-0.1	59	0.00
42 TM	1,2-Dichloroethane	50.000	55.097	-10.2	72	0.00
43 T	Isopropyl Acetate	50.000	51.816	-3.6	68	0.00
44 TM	Trichloroethene	50.000	52.172	-4.3	68	0.00
45 C	1,2-Dichloropropane	50.000	56.107	-12.2#	75	0.00
46 T	Dibromomethane	50.000	51.870	-3.7	68	0.00
47 T	Bromodichloromethane	50.000	57.283	-14.6	75	0.00
48 T	Methyl methacrylate	50.000	53.986	-8.0	69	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019985.D
 Acq On : 23 Oct 2024 10:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 23 23:03:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	1003.460	-0.3	63	0.00
50 S	Toluene-d8	50.000	58.167	-16.3	81	0.00
51 T	4-Methyl-2-Pentanone	250.000	266.268	-6.5	69	0.00
52 CM	Toluene	50.000	55.270	-10.5#	72	0.00
53 T	t-1,3-Dichloropropene	50.000	54.244	-8.5	70	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.823	-9.6	72	0.00
55 T	1,1,2-Trichloroethane	50.000	52.479	-5.0	69	0.00
56 T	Ethyl methacrylate	50.000	53.482	-7.0	67	0.00
57 T	1,3-Dichloropropane	50.000	54.123	-8.2	71	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	267.502	-7.0	74	0.00
59 T	2-Hexanone	250.000	268.533	-7.4	68	0.00
60 T	Dibromochloromethane	50.000	54.686	-9.4	72	0.00
61 T	1,2-Dibromoethane	50.000	51.627	-3.3	67	0.00
62 S	4-Bromofluorobenzene	50.000	58.498	-17.0	82	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	67	0.00
64 T	Tetrachloroethene	50.000	49.812	0.4	65	0.00
65 PM	Chlorobenzene	50.000	54.696	-9.4	72	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.929	-11.9	73	0.00
67 C	Ethyl Benzene	50.000	56.682	-13.4#	73	0.00
68 T	m/p-Xylenes	100.000	112.576	-12.6	73	0.00
69 T	o-Xylene	50.000	55.949	-11.9	72	0.00
70 T	Styrene	50.000	56.792	-13.6	73	0.00
71 P	Bromoform	50.000	53.355	-6.7	67	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	67	0.00
73 T	Isopropylbenzene	50.000	55.970	-11.9	74	0.00
74 T	N-ethyl acetate	50.000	52.819	-5.6	68	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.769	-5.5	70	0.00
76 T	1,2,3-Trichloropropane	50.000	29.082	41.8#	39	0.00
77 T	Bromobenzene	50.000	51.561	-3.1	68	0.00
78 T	n-propylbenzene	50.000	56.958	-13.9	75	0.00
79 T	2-Chlorotoluene	50.000	55.415	-10.8	73	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.694	-11.4	74	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.493	-3.0	67	0.00
82 T	4-Chlorotoluene	50.000	55.909	-11.8	74	0.00
83 T	tert-Butylbenzene	50.000	56.900	-13.8	75	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.994	-12.0	73	0.00
85 T	sec-Butylbenzene	50.000	57.520	-15.0	75	0.00
86 T	p-Isopropyltoluene	50.000	56.142	-12.3	73	0.00
87 T	1,3-Dichlorobenzene	50.000	53.337	-6.7	71	0.00
88 T	1,4-Dichlorobenzene	50.000	53.247	-6.5	71	0.00
89 T	n-Butylbenzene	50.000	58.364	-16.7	74	0.00
90 T	Hexachloroethane	50.000	57.010	-14.0	75	0.00
91 T	1,2-Dichlorobenzene	50.000	53.840	-7.7	71	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.702	0.6	66	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.668	-5.3	65	0.00
94 T	Hexachlorobutadiene	50.000	52.195	-4.4	66	0.00
95 T	Naphthalene	50.000	50.762	-1.5	62	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019985.D
Acq On : 23 Oct 2024 10:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 23:03:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	51.153	-2.3	63	0.00

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



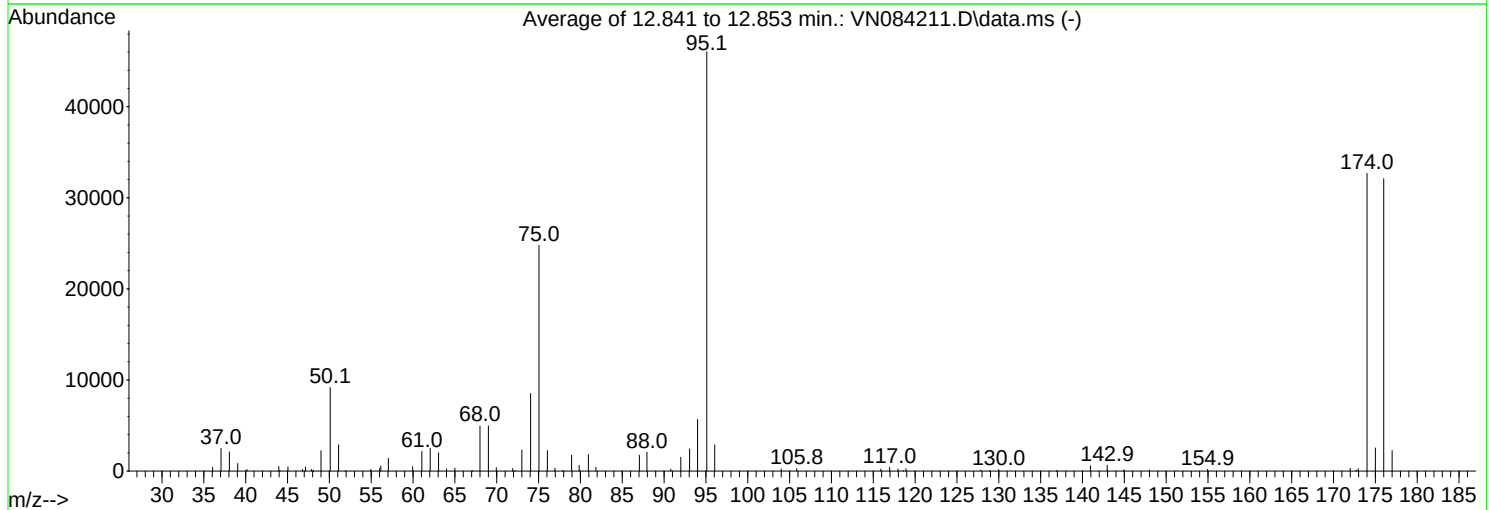
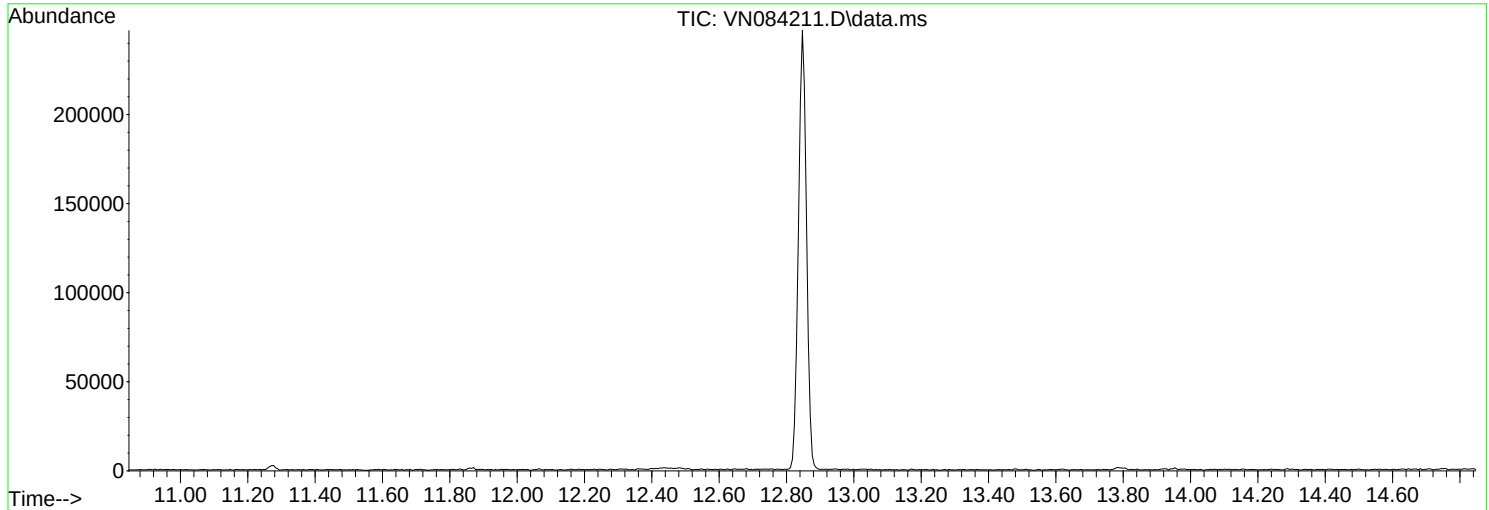
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084211.D
Acq On : 30 Sep 2024 09:24
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 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	19.9	9177	PASS
75	95	30	60	53.9	24795	PASS
95	95	100	100	100.0	46040	PASS
96	95	5	9	6.3	2879	PASS
173	174	0.00	2	0.8	259	PASS
174	95	50	100	71.0	32685	PASS
175	174	5	9	7.8	2541	PASS
176	174	95	101	98.2	32104	PASS
177	176	5	9	7.0	2260	PASS

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	419	48.10	111	62.05	2483	74.05	8516
37.05	2481	49.00	2237	63.05	2007	75.05	24795
38.05	2101	50.10	9177	64.00	258	76.05	2253
39.05	836	51.10	2891	65.00	322	76.95	323
40.15	179	51.90	55	67.10	55	77.90	67
43.95	503	54.95	179	68.00	4945	78.95	1743
44.10	59	56.00	274	69.00	4971	79.85	625
45.05	462	56.15	545	69.95	382	80.95	1822
46.80	174	57.05	1406	71.90	264	81.85	418
47.15	455	59.95	485	72.20	67	87.05	1750
47.85	183	61.05	2172	73.00	2306	87.95	2078

Average of 12.841 to 12.853 min.: VN084211.D\data.ms
BFB

Modified:subtracted

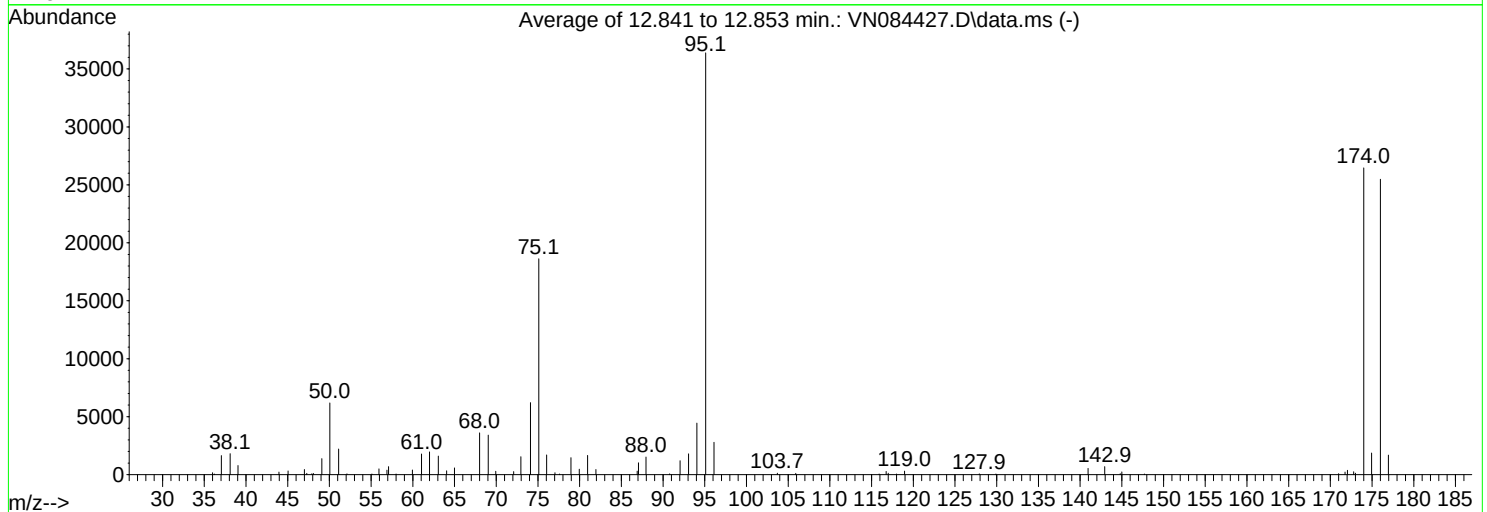
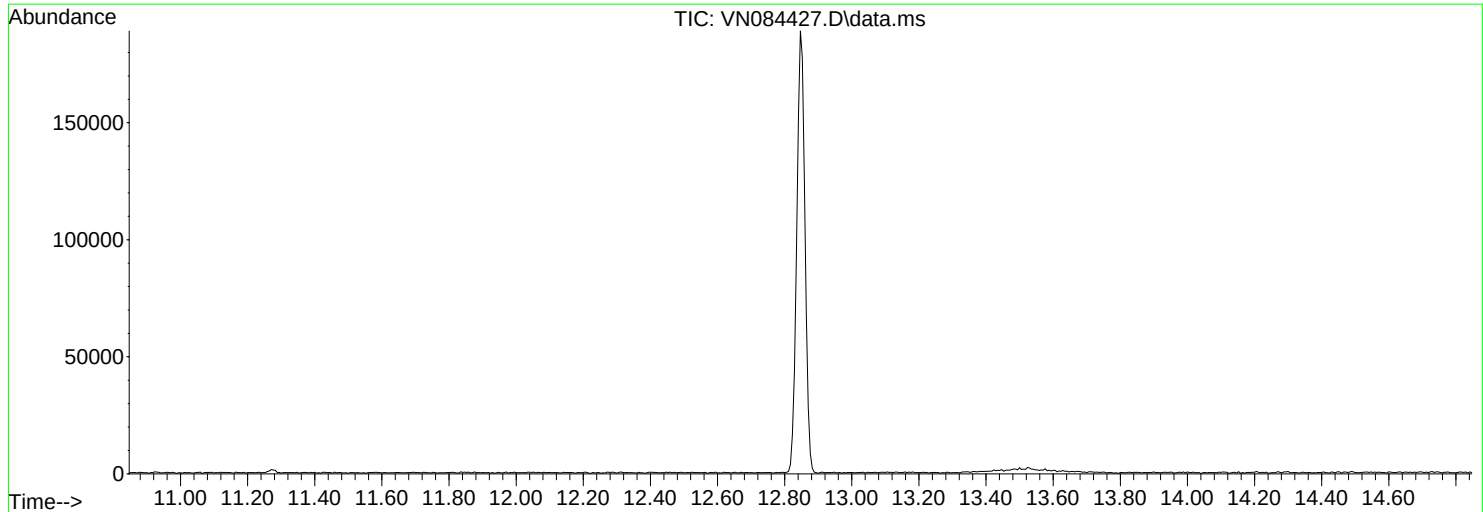
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.80	219	118.60	60	172.00	305		
92.00	1521	118.90	261	172.70	115		
93.05	2424	127.85	111	172.95	259		
94.00	5677	128.90	54	174.00	32685		
95.10	46040	130.00	156	175.00	2541		
96.05	2879	136.90	63	176.00	32104		
104.00	245	140.95	584	177.00	2260		
105.85	277	142.95	633				
115.90	223	144.95	142				
116.95	410	148.00	113				
117.95	228	154.95	185				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084427.D
Acq On : 21 Oct 2024 11:14
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 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	17.0	6183	PASS
75	95	30	60	51.2	18619	PASS
95	95	100	100	100.0	36389	PASS
96	95	5	9	7.6	2782	PASS
173	174	0.00	2	0.9	244	PASS
174	95	50	100	72.7	26461	PASS
175	174	5	9	7.0	1860	PASS
176	174	95	101	96.3	25488	PASS
177	176	5	9	6.6	1686	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	173	49.10	1383	62.00	1954	76.05	1691
36.20	62	50.05	6183	63.05	1600	77.05	1601
37.05	1646	51.10	2214	64.05	334	77.60	515
38.10	1802	52.10	76	65.00	574	78.95	1471
39.05	782	55.10	60	68.00	3606	79.95	469
43.95	224	55.95	502	69.05	3408	80.95	1651
45.05	325	56.90	392	69.95	285	81.95	446
47.00	441	57.10	689	72.10	256	86.90	298
47.30	116	58.00	55	72.95	1542	87.05	1021
47.90	81	59.95	405	74.10	6211	87.95	1521
48.10	92	61.05	1781	75.10	18619	90.80	69

Average of 12.841 to 12.853 min.: VN084427.D\data.ms

BFB

Modified:subtracted

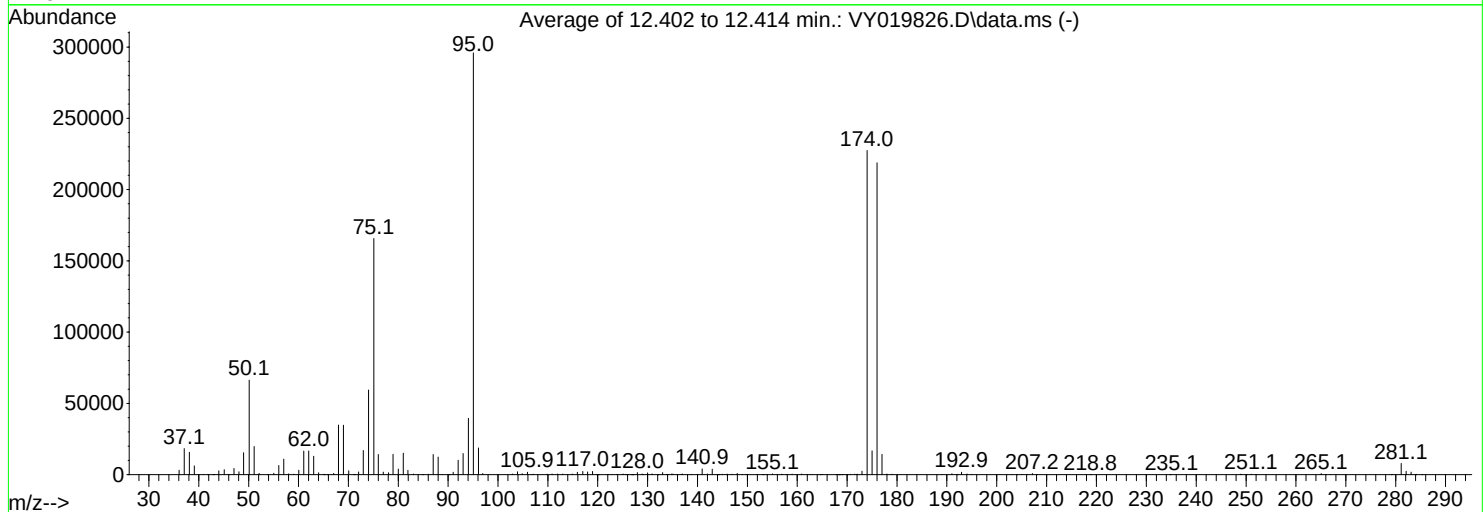
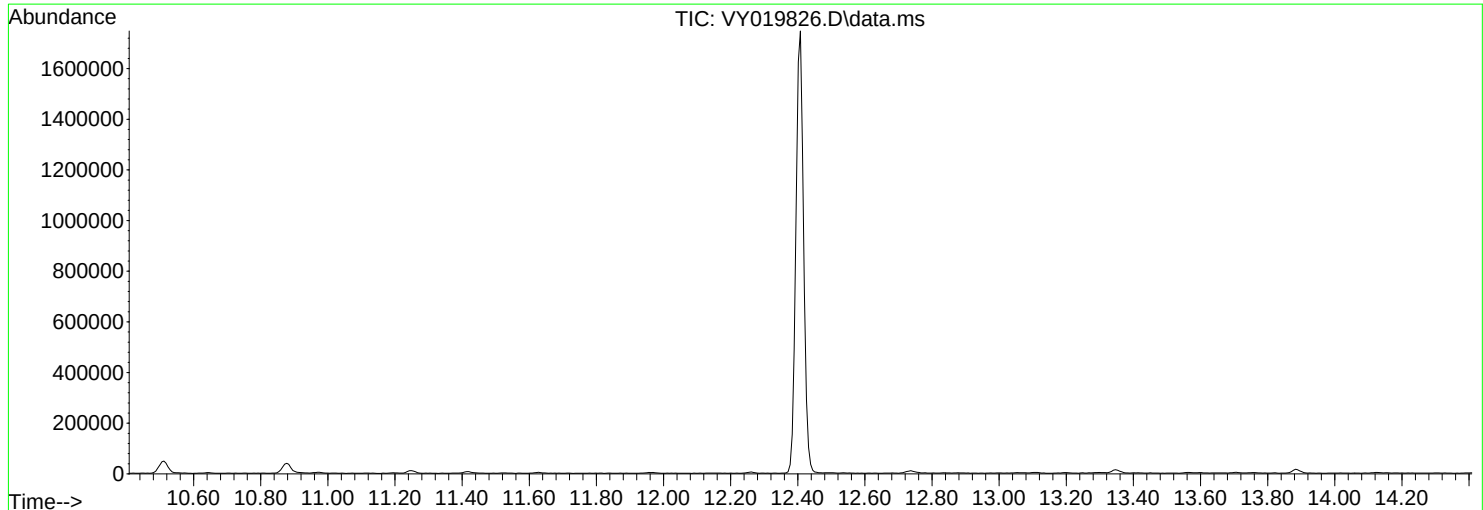
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	1209	118.95	300	172.80	244		
93.05	1790	127.90	64	173.00	128		
94.05	4443	129.90	52	174.00	26461		
95.10	36389	140.95	536	174.95	1860		
96.10	2782	142.95	694	176.00	25488		
103.70	131	144.80	80	176.95	1686		
105.90	112	145.00	233				
115.90	53	147.70	52				
116.75	276	171.00	81				
117.00	118	171.75	218				
118.00	55	172.05	376				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019826.D
Acq On : 09 Oct 2024 09:33
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260
Last Update : Thu Oct 10 05:30:07 2024



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

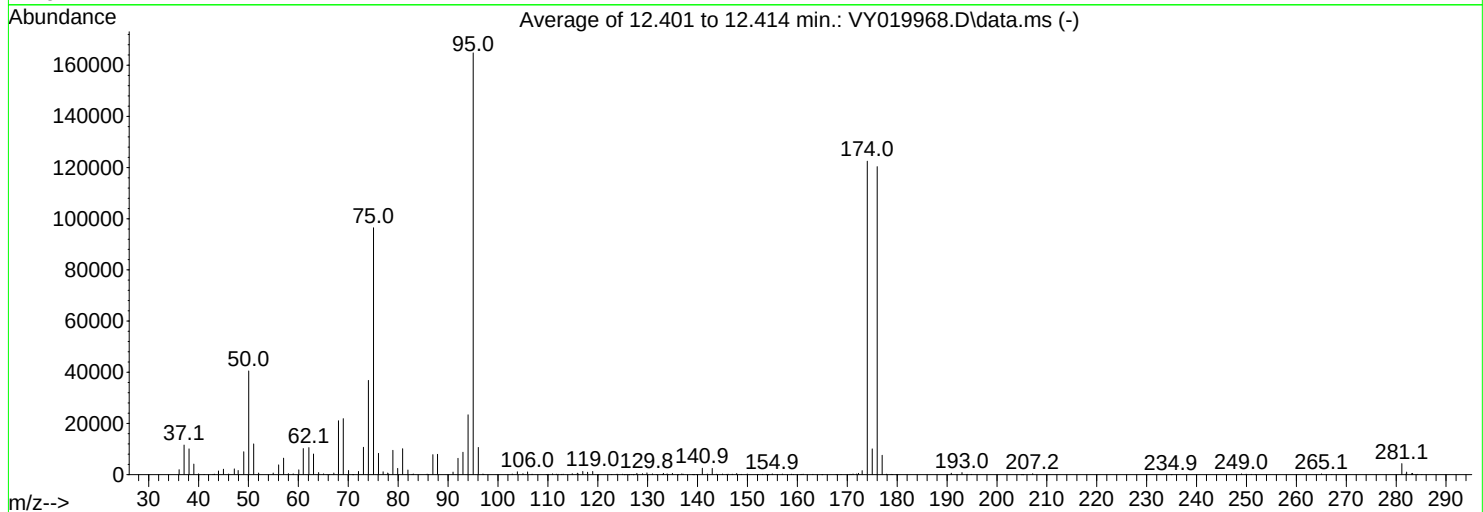
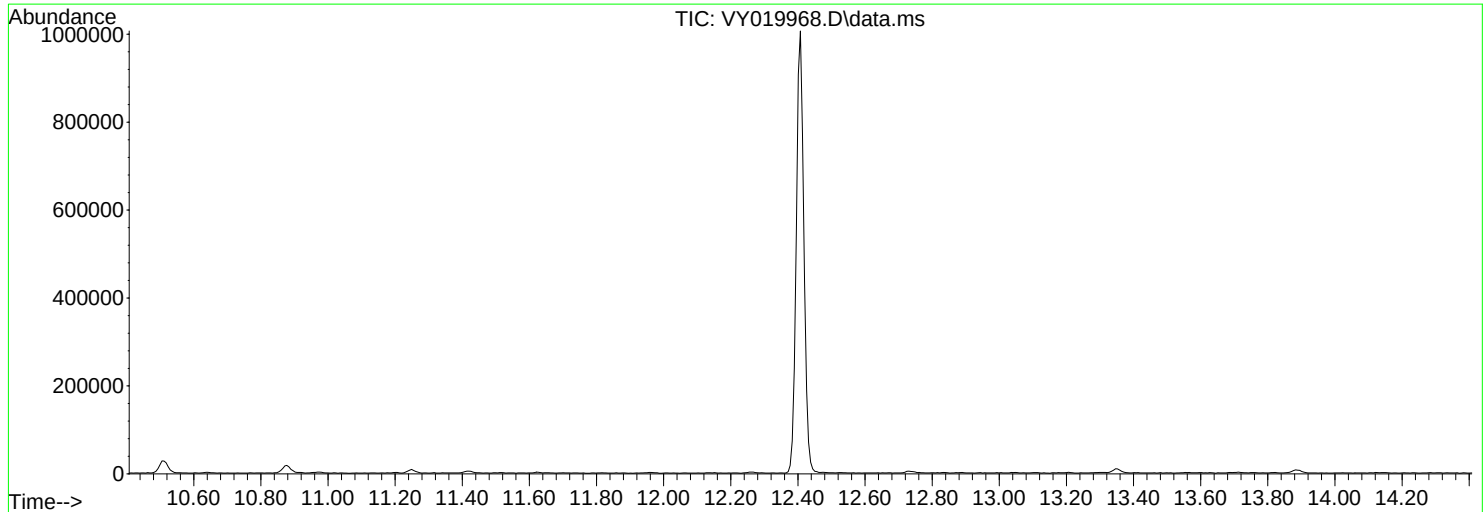
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.4	66352	PASS
75	95	30	60	56.0	165725	PASS
95	95	100	100	100.0	295936	PASS
96	95	5	9	6.3	18775	PASS
173	174	0.00	2	1.1	2529	PASS
174	95	50	100	76.9	227477	PASS
175	174	5	9	7.3	16688	PASS
176	174	95	101	96.2	218837	PASS
177	176	5	9	6.5	14261	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019968.D
Acq On : 22 Oct 2024 08:49
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260
Last Update : Wed Oct 16 05:44:48 2024



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

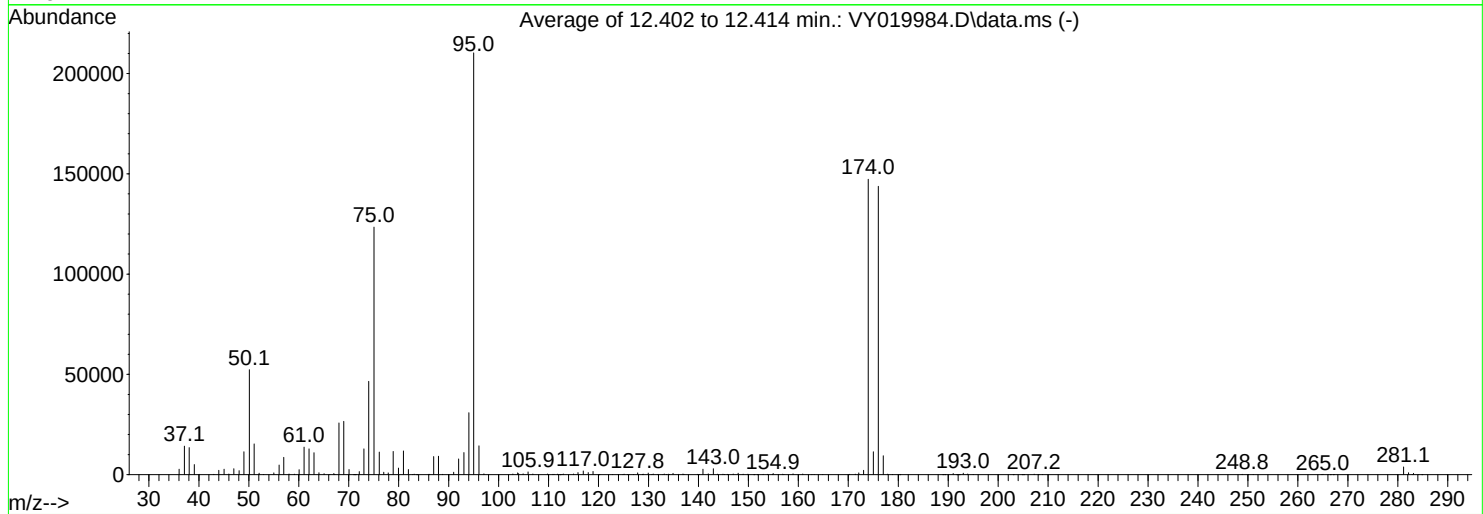
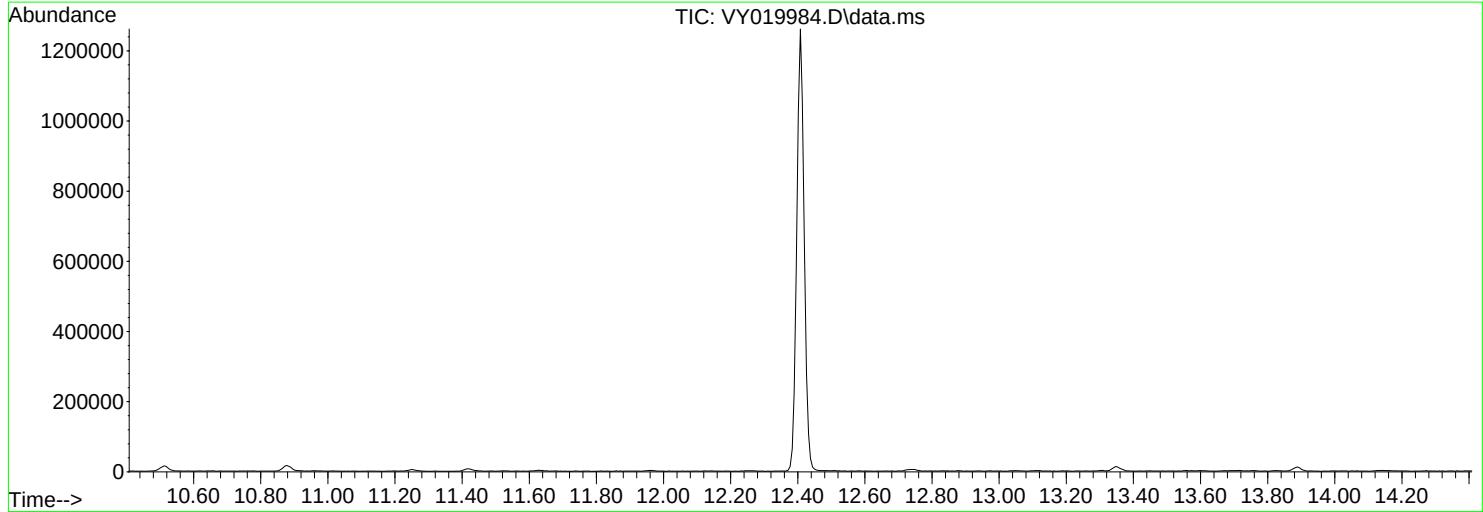
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	40488	PASS
75	95	30	60	58.5	96448	PASS
95	95	100	100	100.0	164821	PASS
96	95	5	9	6.4	10607	PASS
173	174	0.00	2	1.3	1557	PASS
174	95	50	100	74.3	122451	PASS
175	174	5	9	8.2	10056	PASS
176	174	95	101	98.3	120357	PASS
177	176	5	9	6.3	7545	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019984.D
Acq On : 23 Oct 2024 08:51
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260
Last Update : Wed Oct 16 05:44:48 2024



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.9	52357	PASS
75	95	30	60	58.7	123451	PASS
95	95	100	100	100.0	210325	PASS
96	95	5	9	6.8	14397	PASS
173	174	0.00	2	1.5	2145	PASS
174	95	50	100	70.0	147251	PASS
175	174	5	9	7.8	11449	PASS
176	174	95	101	97.6	143787	PASS
177	176	5	9	6.5	9397	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBL01	SDG No.:	P4471
Lab Sample ID:	VN1021WBL01	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
VN084430.D	1		10/21/24 12:36	VN102124

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1021WBL01			SDG No.:	P4471
Lab Sample ID:	VN1021WBL01			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
VN084430.D	1		10/21/24 12:36	VN102124

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	48.6		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		70 (77) - 130 (121)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.224			
540-36-3	1,4-Difluorobenzene	295000	9.1			
3114-55-4	Chlorobenzene-d5	254000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	100000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VN1021WBL01		SDG No.:	P4471
Lab Sample ID:	VN1021WBL01		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
VN084430.D	1		10/21/24 12:36	VN102124

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\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Time: Oct 22 01:31:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	167468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	295479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254088	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99954	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120667	48.597	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.200%
35) Dibromofluoromethane	8.165	113	99495	51.076	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.160%
50) Toluene-d8	10.565	98	349958	48.830	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.660%
62) 4-Bromofluorobenzene	12.847	95	116683	44.690	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	89.380%

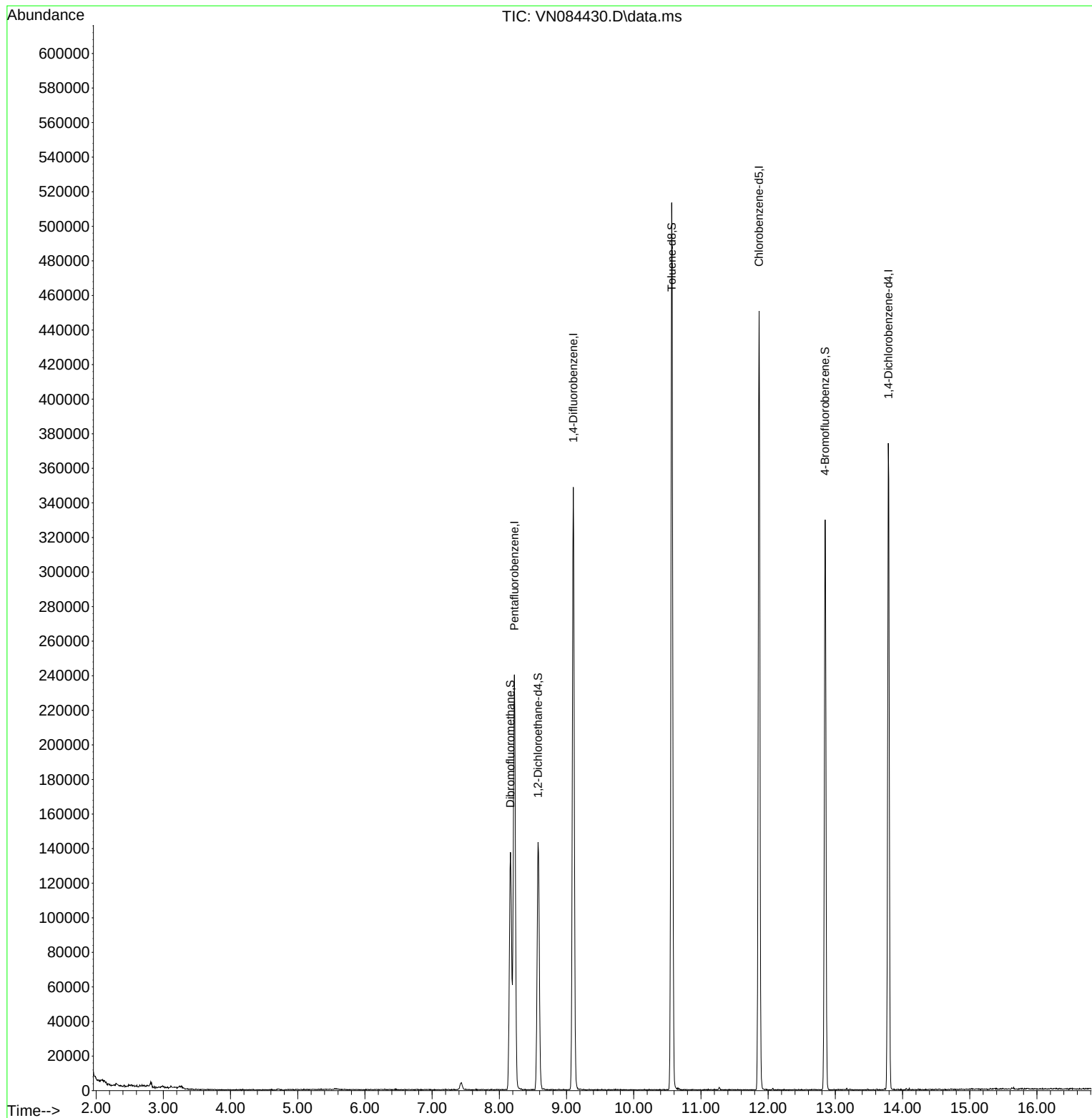
Target Compounds	Qvalue

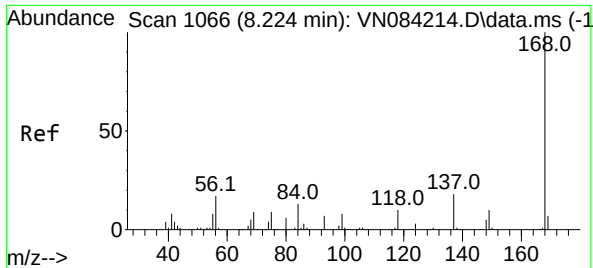
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Time: Oct 22 01:31:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

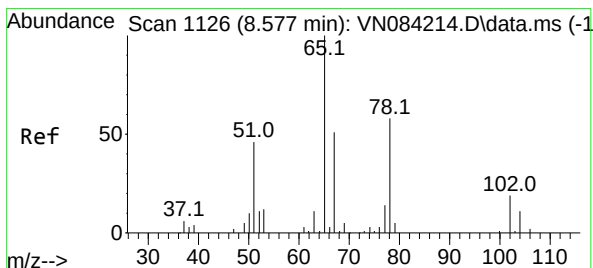
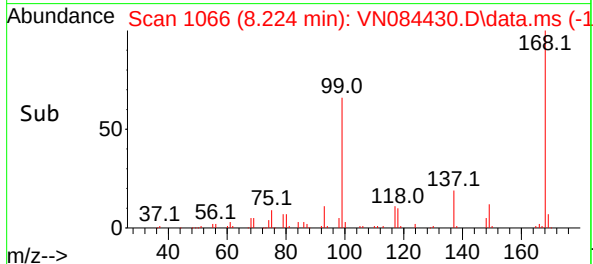
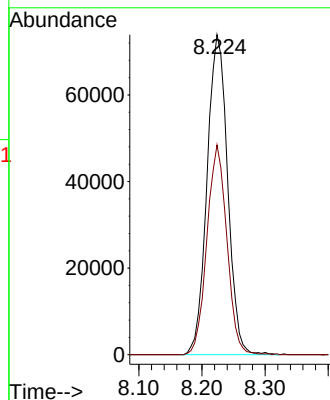
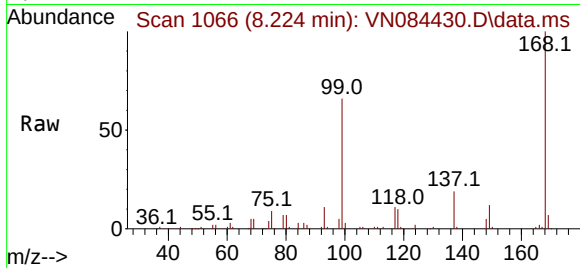




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

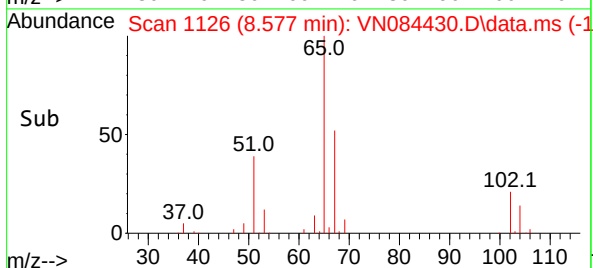
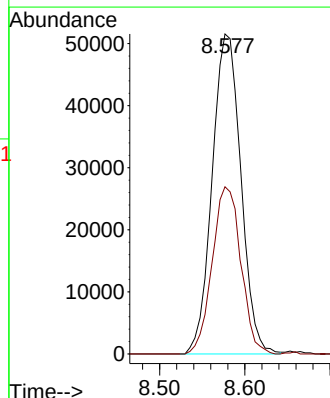
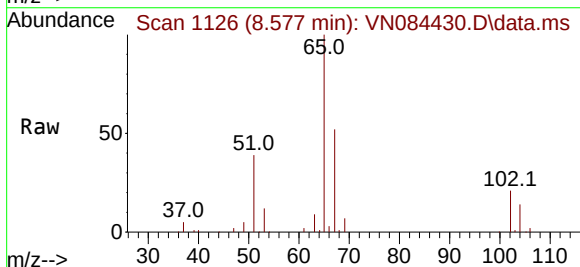
Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

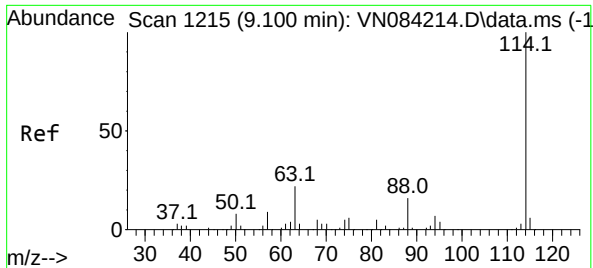
Tgt Ion:168 Resp: 167468
Ion Ratio Lower Upper
168 100
99 65.6 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 48.597 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion: 65 Resp: 120667
Ion Ratio Lower Upper
65 100
67 52.1 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084430.D

Acq: 21 Oct 2024 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN1021WBL01

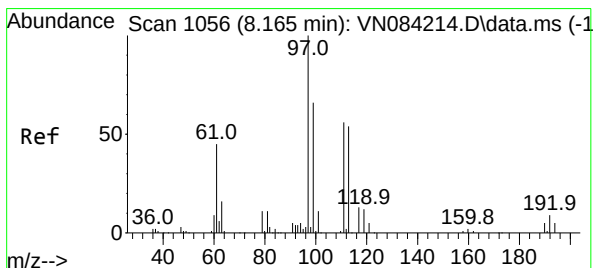
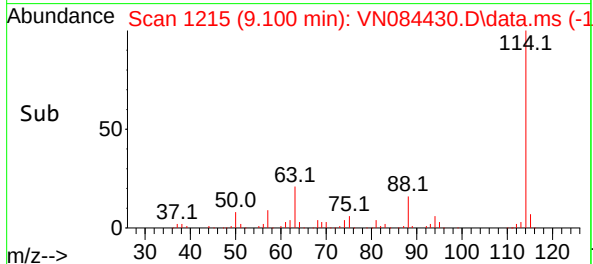
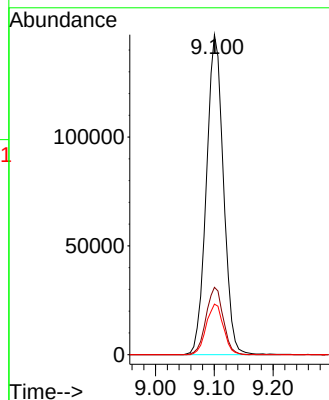
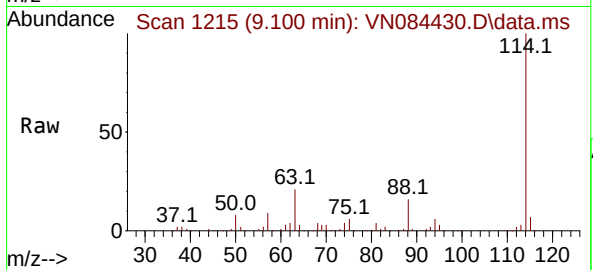
Tgt Ion:114 Resp: 295479

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.8

88 15.8 0.0 31.6



#35

Dibromofluoromethane

Concen: 51.076 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084430.D

Acq: 21 Oct 2024 12:36

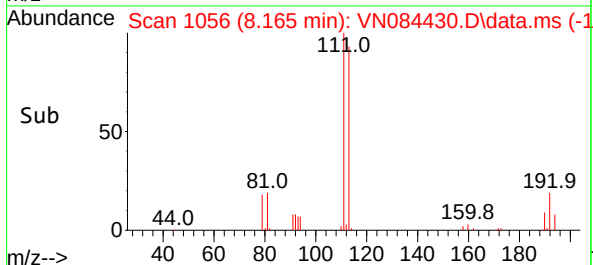
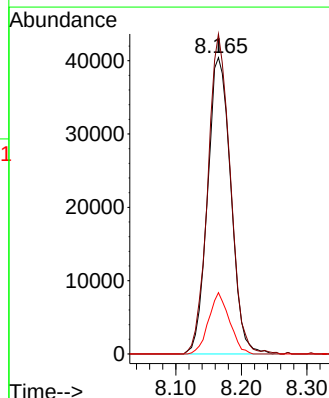
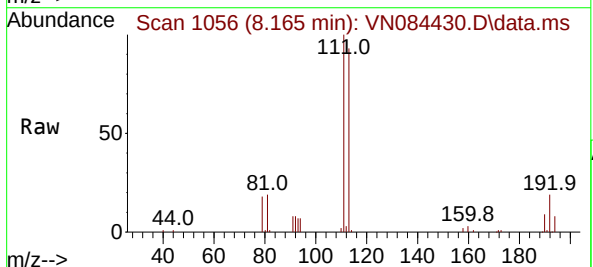
Tgt Ion:113 Resp: 99495

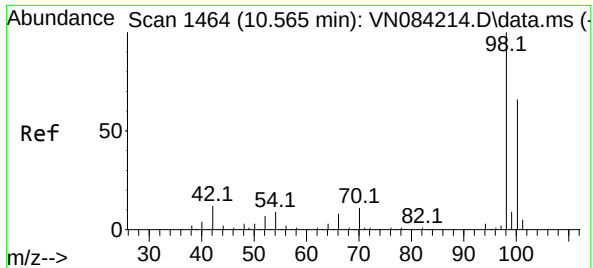
Ion Ratio Lower Upper

113 100

111 104.6 83.3 124.9

192 18.5 13.5 20.3

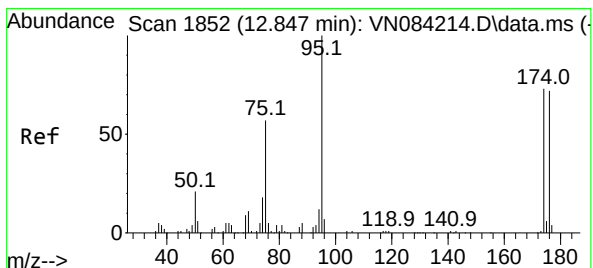
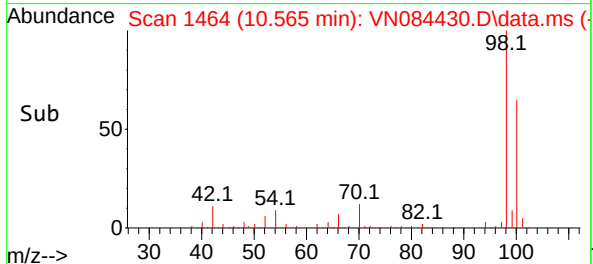
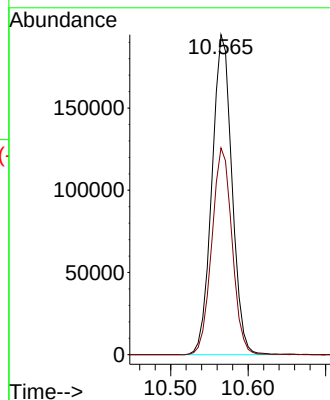
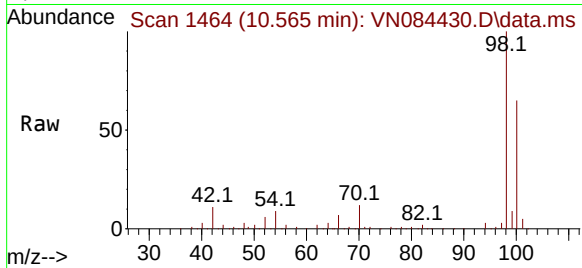




#50
Toluene-d8
Concen: 48.830 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

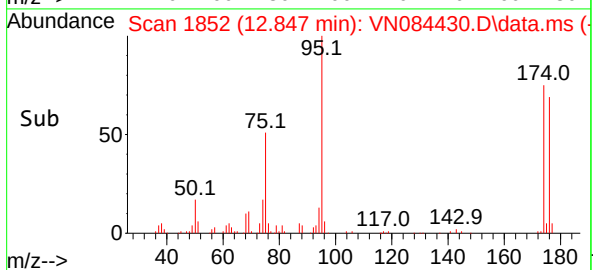
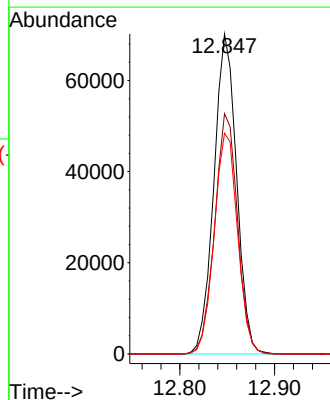
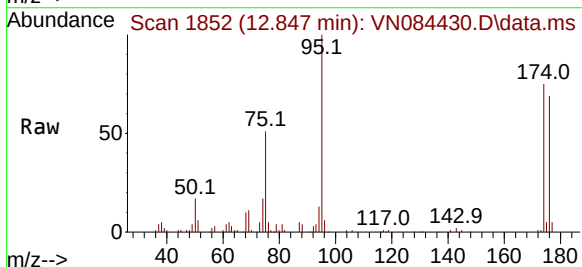
Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

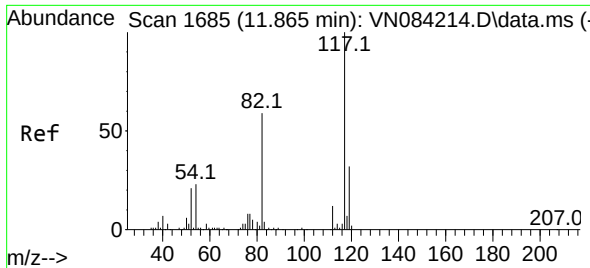
Tgt Ion: 98 Resp: 349958
Ion Ratio Lower Upper
98 100
100 65.2 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 44.690 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion: 95 Resp: 116683
Ion Ratio Lower Upper
95 100
174 75.9 0.0 145.2
176 71.0 0.0 140.0

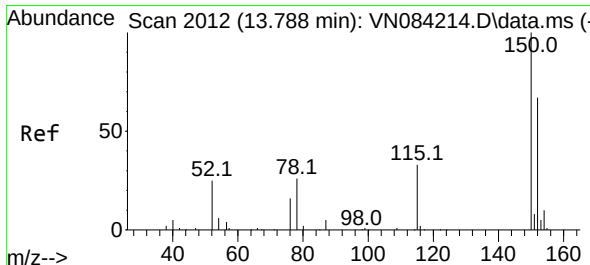
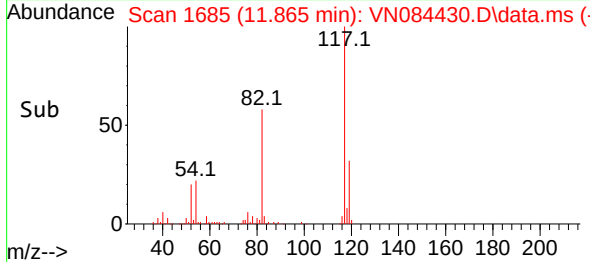
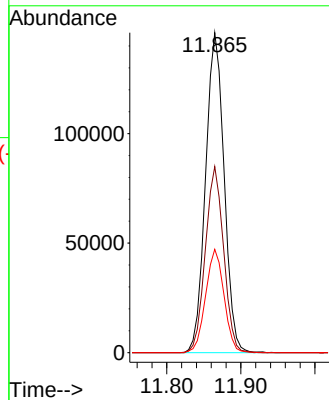
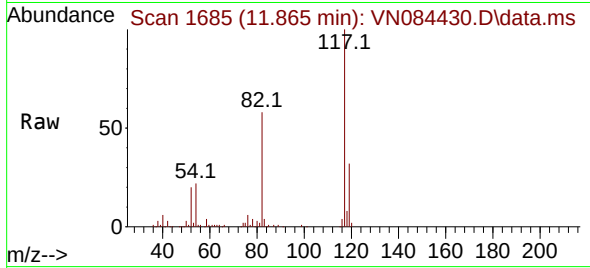




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

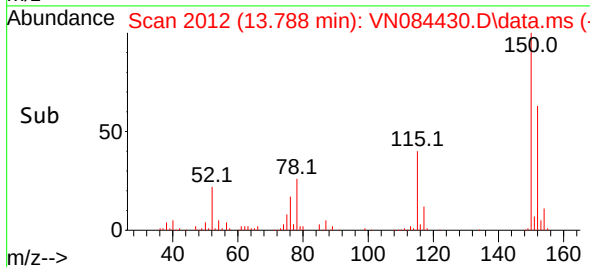
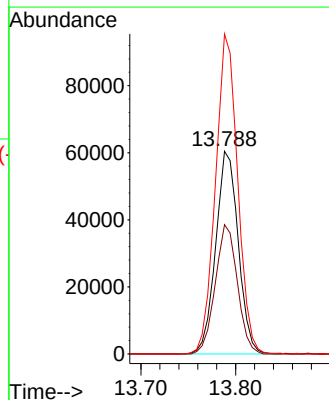
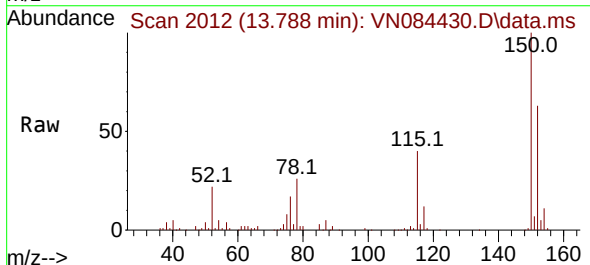
Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.2	70.8
119	32.3	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: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.6	31.3	93.9
150	155.5	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M

Title : SW846 8260

Signal : TIC: VN084430.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.436	922	932	942	rBV2	4108	10909	1.18%	0.228%
2	8.165	1047	1056	1061	rBV	137448	335323	36.14%	7.019%
3	8.224	1061	1066	1078	rVB	239504	517962	55.83%	10.843%
4	8.577	1118	1126	1137	rBV	143101	329717	35.54%	6.902%
5	9.100	1206	1215	1227	rBV	348480	696007	75.02%	14.570%
6	10.565	1456	1464	1477	rBV	513172	927809	100.00%	19.422%
7	11.865	1677	1685	1700	rVB	450419	783202	84.41%	16.395%
8	12.847	1845	1852	1864	rVB	330020	559221	60.27%	11.706%
9	13.788	2005	2012	2023	rBV	373902	616926	66.49%	12.914%

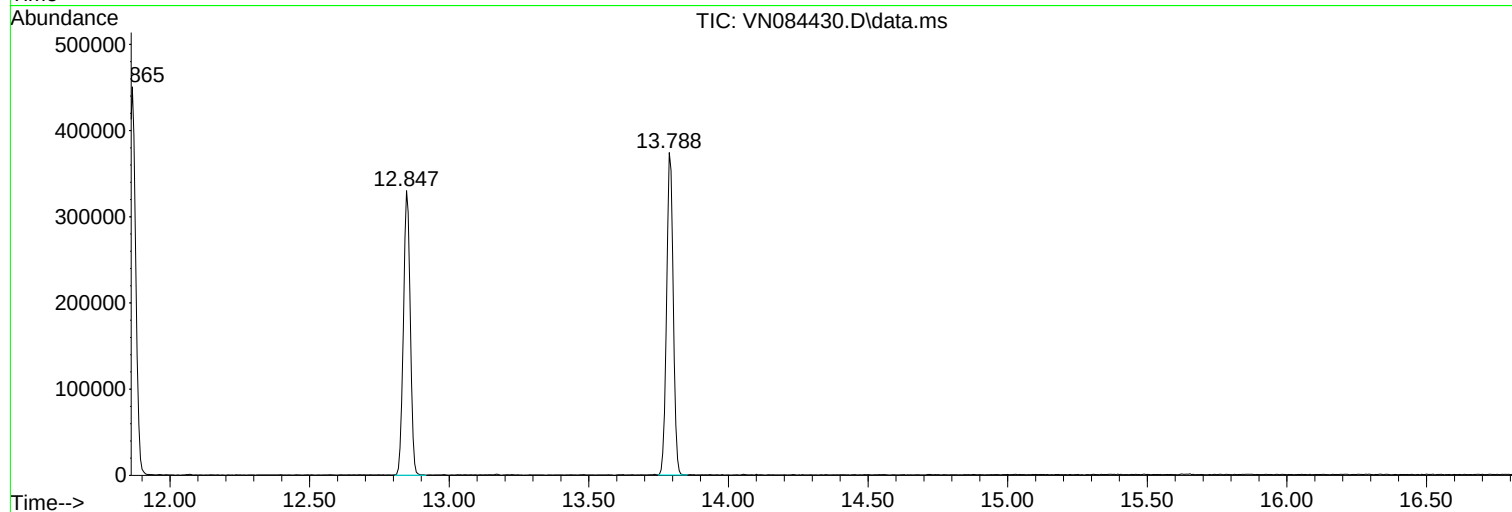
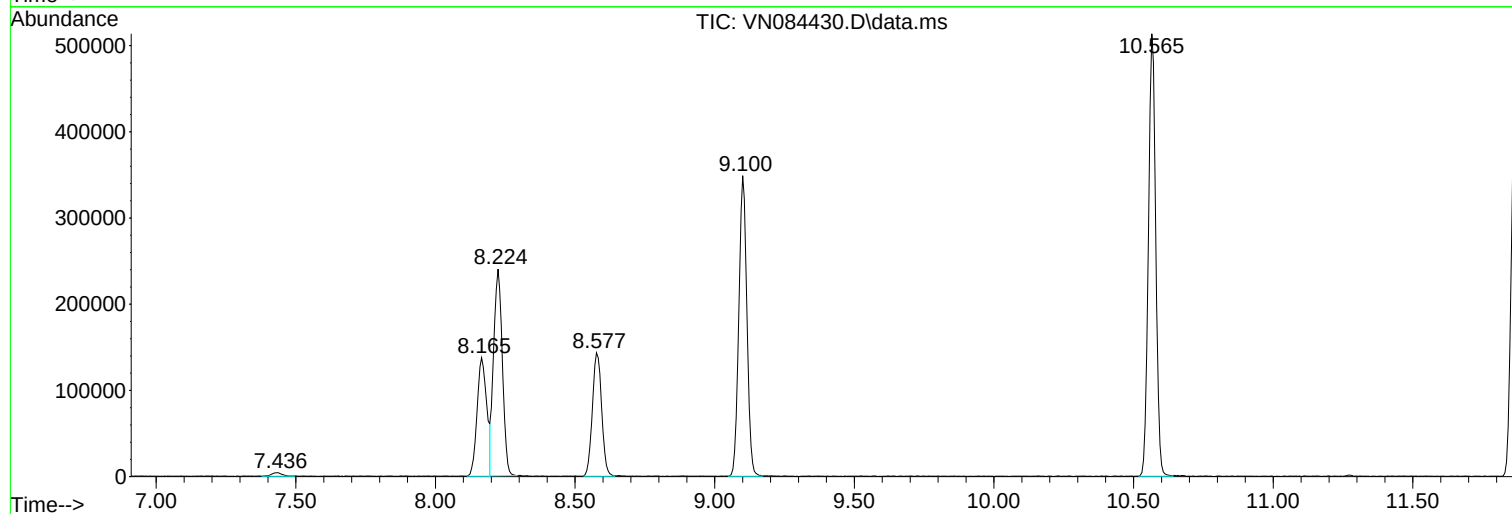
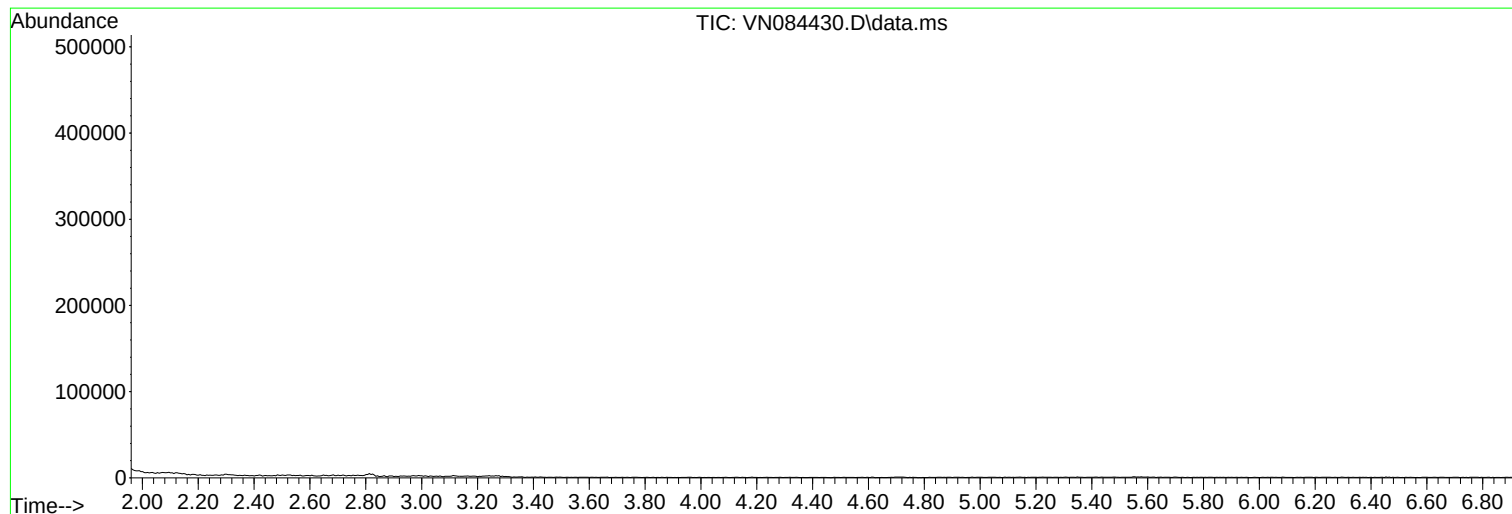
Sum of corrected areas: 4777076

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBL01	SDG No.:	P4471
Lab Sample ID:	VY1022SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	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
VY019970.D	1		10/22/24 10:36	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBL01	SDG No.:	P4471
Lab Sample ID:	VY1022SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019970.D	1		10/22/24 10:36	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		70 (50) - 130 (163)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		70 (29) - 130 (146)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	219000	7.713			
540-36-3	1,4-Difluorobenzene	450000	8.616			
3114-55-4	Chlorobenzene-d5	396000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1022SBL01		SDG No.:	P4471
Lab Sample ID:	VY1022SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	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
VY019970.D	1		10/22/24 10:36	VY102224

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_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Time: Oct 23 01:24:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	219150	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	450425	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	395647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	132931	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150698	55.848	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.700%
35) Dibromofluoromethane	7.634	113	145305	48.886	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.780%
50) Toluene-d8	10.109	98	554994	50.563	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.120%
62) 4-Bromofluorobenzene	12.408	95	159930	40.325	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	80.640%

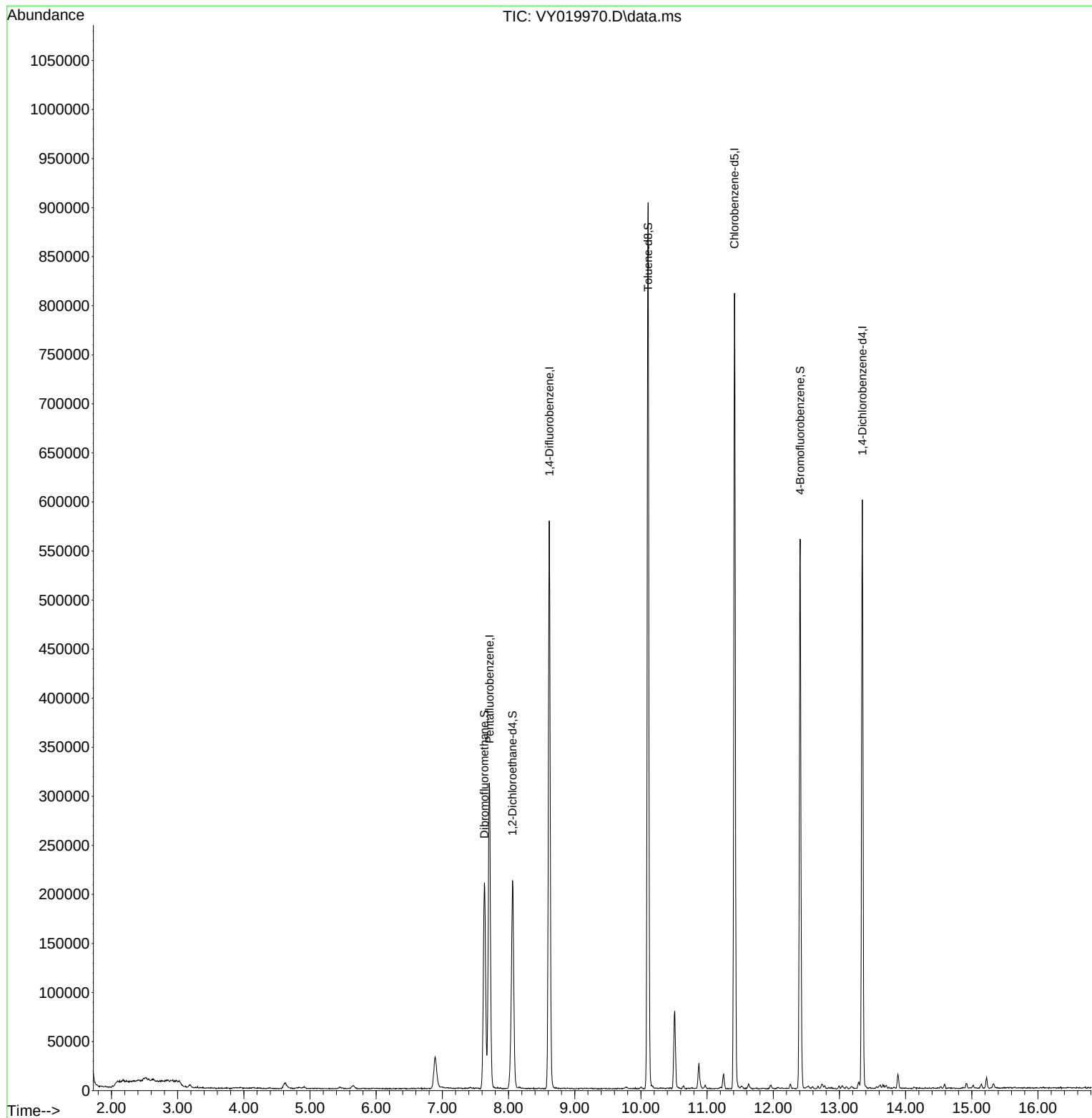
Target Compounds	Qvalue

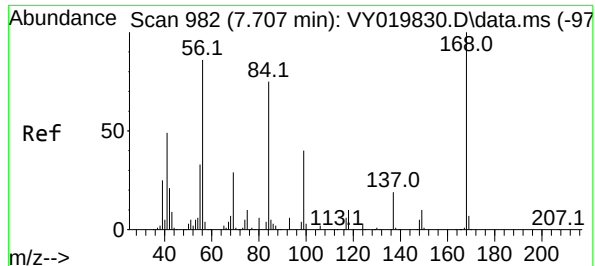
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Time: Oct 23 01:24:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

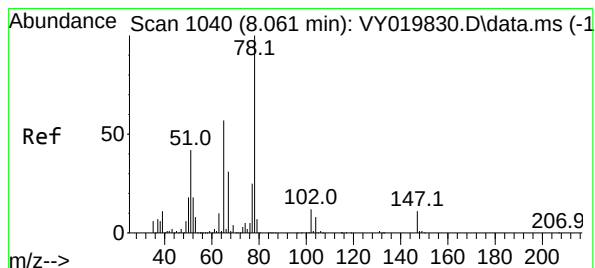
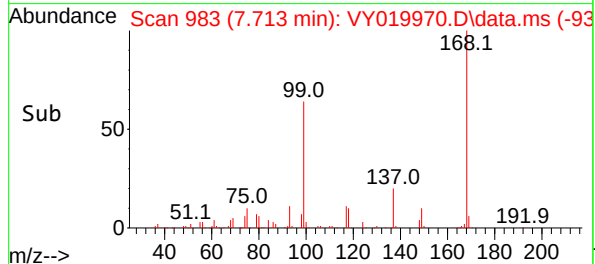
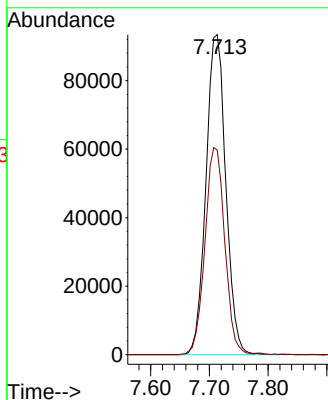
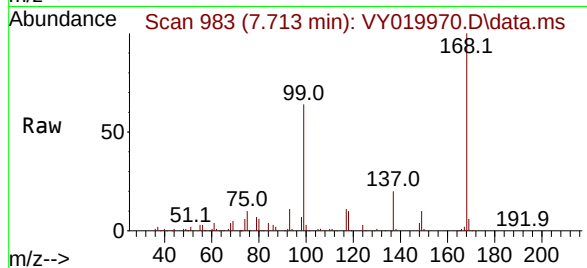




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

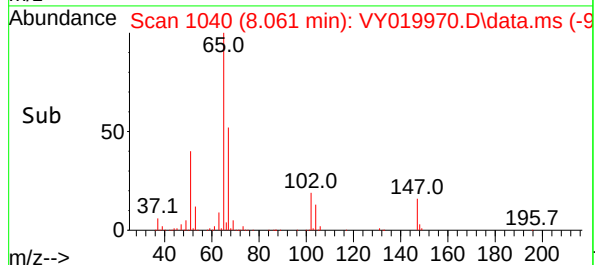
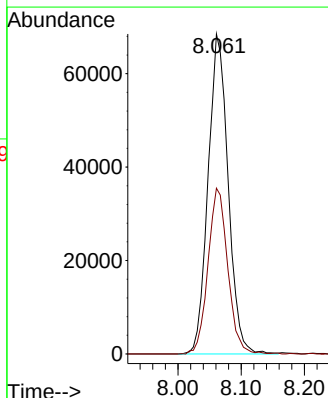
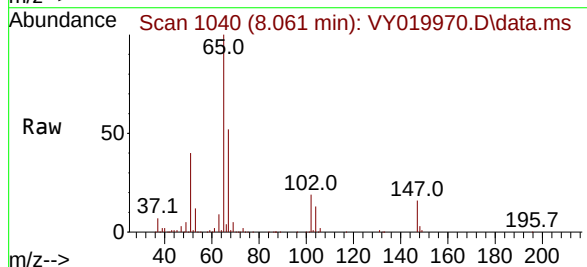
Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

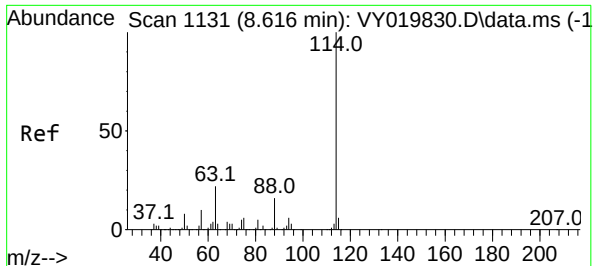
Tgt Ion:168 Resp: 219150
Ion Ratio Lower Upper
168 100
99 64.0 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 55.848 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Tgt Ion: 65 Resp: 150698
Ion Ratio Lower Upper
65 100
67 51.0 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019970.D

Acq: 22 Oct 2024 10:36

Instrument :

MSVOA_Y

ClientSampleId :

VY1022SBL01

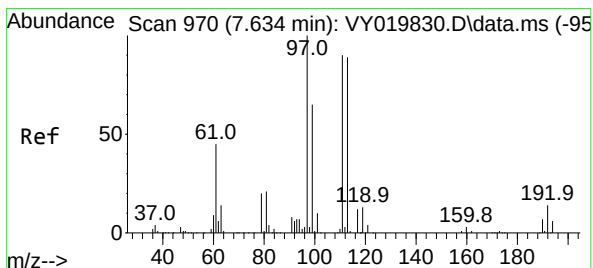
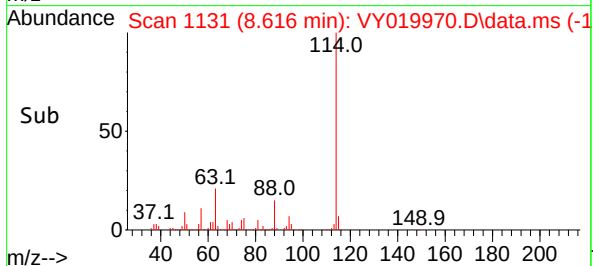
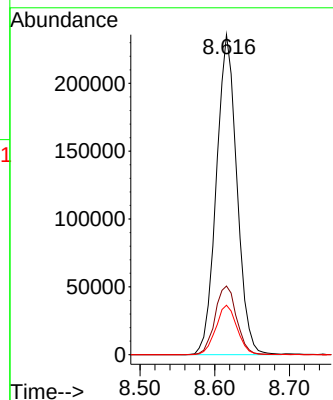
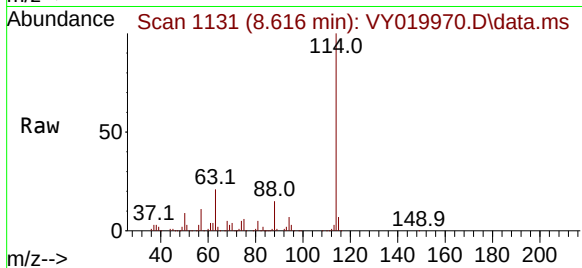
Tgt Ion:114 Resp: 450425

Ion Ratio Lower Upper

114 100

63 21.4 0.0 35.0

88 15.5 0.0 27.2



#35

Dibromofluoromethane

Concen: 48.886 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019970.D

Acq: 22 Oct 2024 10:36

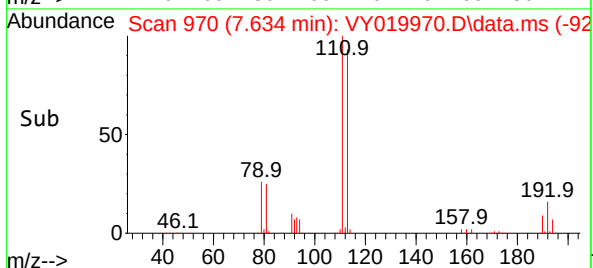
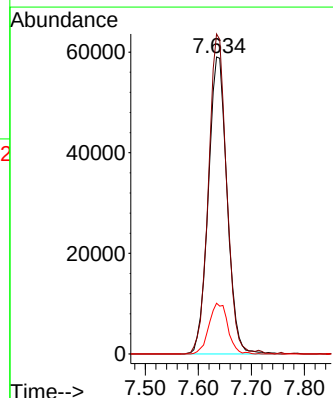
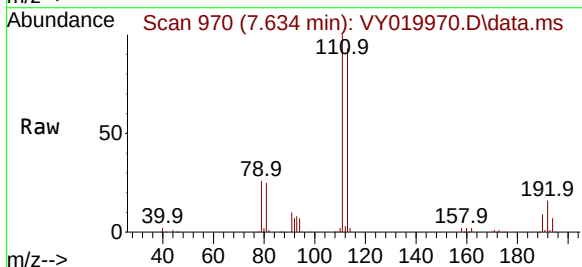
Tgt Ion:113 Resp: 145305

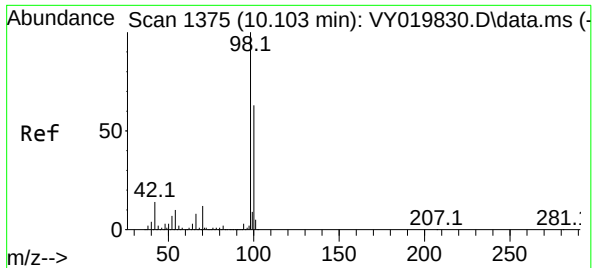
Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.4

192 17.1 15.9 23.9

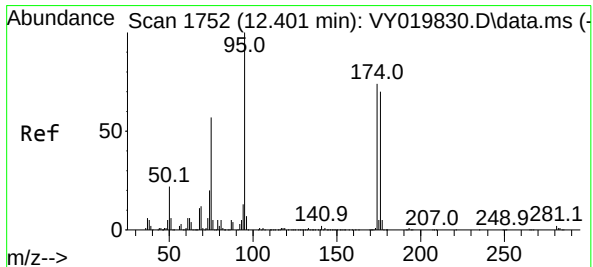
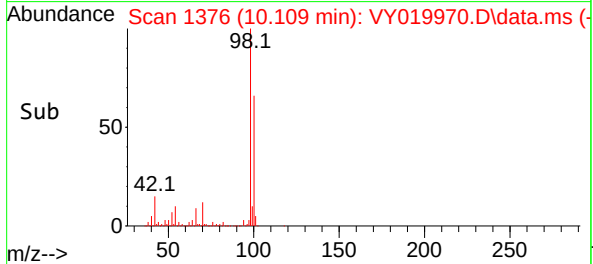
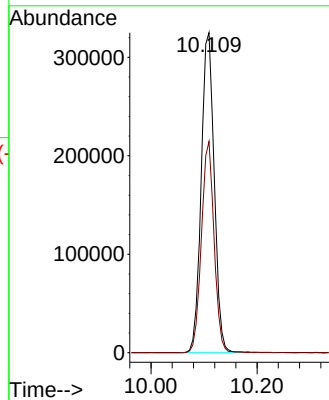
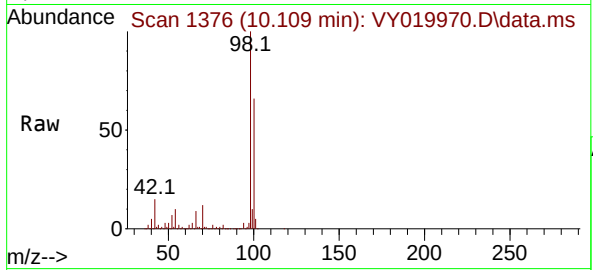




#50
Toluene-d8
Concen: 50.563 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

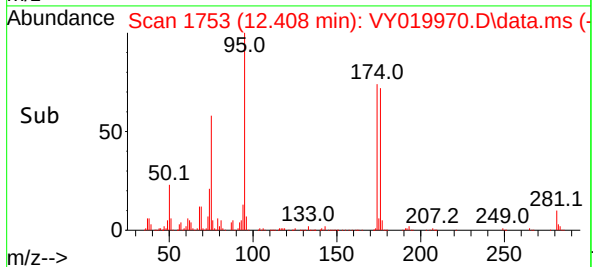
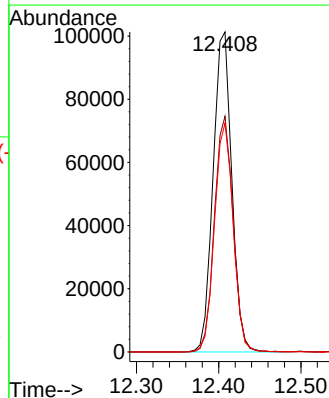
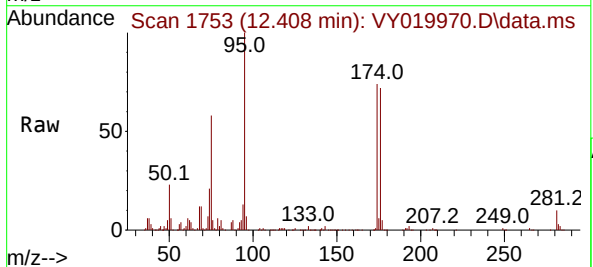
Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

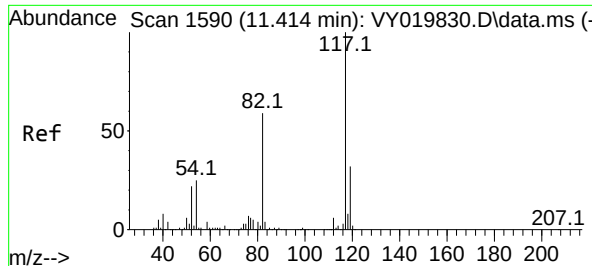
Tgt Ion: 98 Resp: 554994
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 40.325 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Tgt Ion: 95 Resp: 159930
Ion Ratio Lower Upper
95 100
174 74.1 0.0 175.6
176 71.3 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019970.D

Acq: 22 Oct 2024 10:36

Instrument :

MSVOA_Y

ClientSampleId :

VY1022SBL01

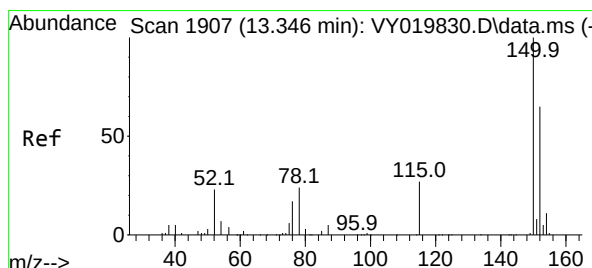
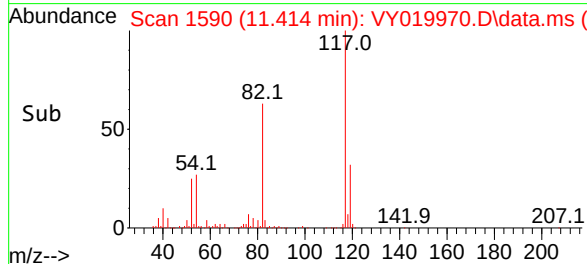
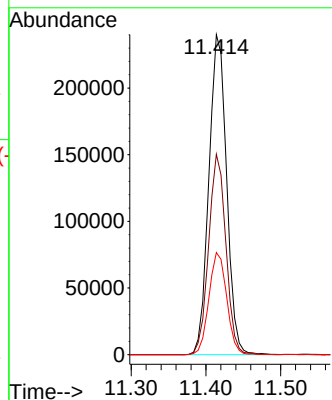
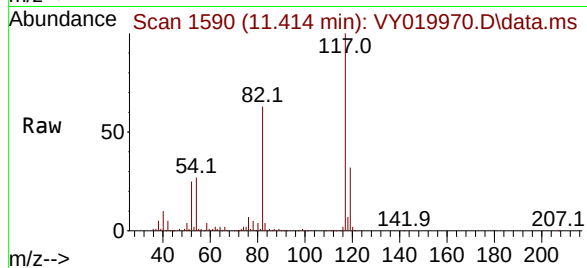
Tgt Ion:117 Resp: 395647

Ion Ratio Lower Upper

117 100

82 62.6 42.4 63.6

119 31.9 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019970.D

Acq: 22 Oct 2024 10:36

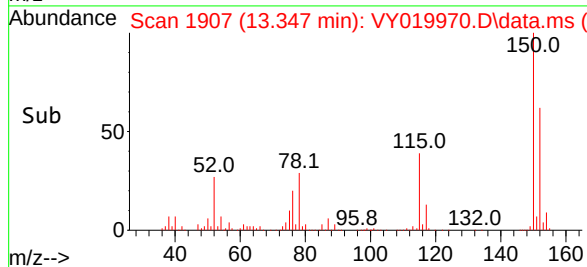
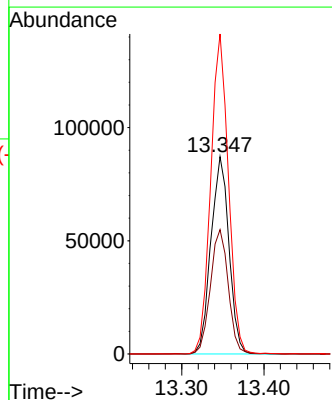
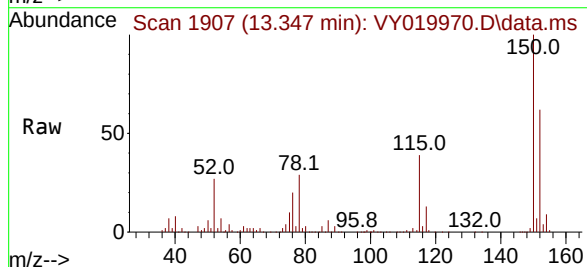
Tgt Ion:152 Resp: 132931

Ion Ratio Lower Upper

152 100

115 62.3 28.2 84.7

150 158.7 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019970.D
 Acq On : 22 Oct 2024 10:36
 Operator : SY/MD
 Sample : VY1022SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1022SBL01

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_Y\methods\82Y100924S.M

Title : SW846 8260

Signal : TIC: VY019970.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.092	50	61	65	rBV5	5719	19578	1.27%	0.244%
2	6.890	836	848	862	rBV	32414	107177	6.98%	1.335%
3	7.634	960	970	976	rBV	210336	504737	32.86%	6.287%
4	7.707	976	982	993	rVB	310616	721755	46.98%	8.991%
5	8.061	1025	1040	1052	rBV2	212210	537568	34.99%	6.696%
6	8.616	1121	1131	1145	rBV	578997	1125141	73.24%	14.015%
7	10.109	1368	1376	1384	rBV	903209	1536236	100.00%	19.136%
8	10.512	1434	1442	1450	rBV	79596	146640	9.55%	1.827%
9	10.877	1496	1502	1510	rVB2	25665	45490	2.96%	0.567%
10	11.249	1558	1563	1568	rVB	14826	25408	1.65%	0.316%
11	11.414	1582	1590	1599	rBV	811204	1341171	87.30%	16.706%
12	12.408	1742	1753	1762	rBV2	560356	942002	61.32%	11.734%
13	13.347	1901	1907	1920	rVB	600058	933703	60.78%	11.631%
14	13.883	1990	1995	2001	rVB2	14312	23146	1.51%	0.288%
15	15.224	2209	2215	2222	rVB2	11407	18113	1.18%	0.226%

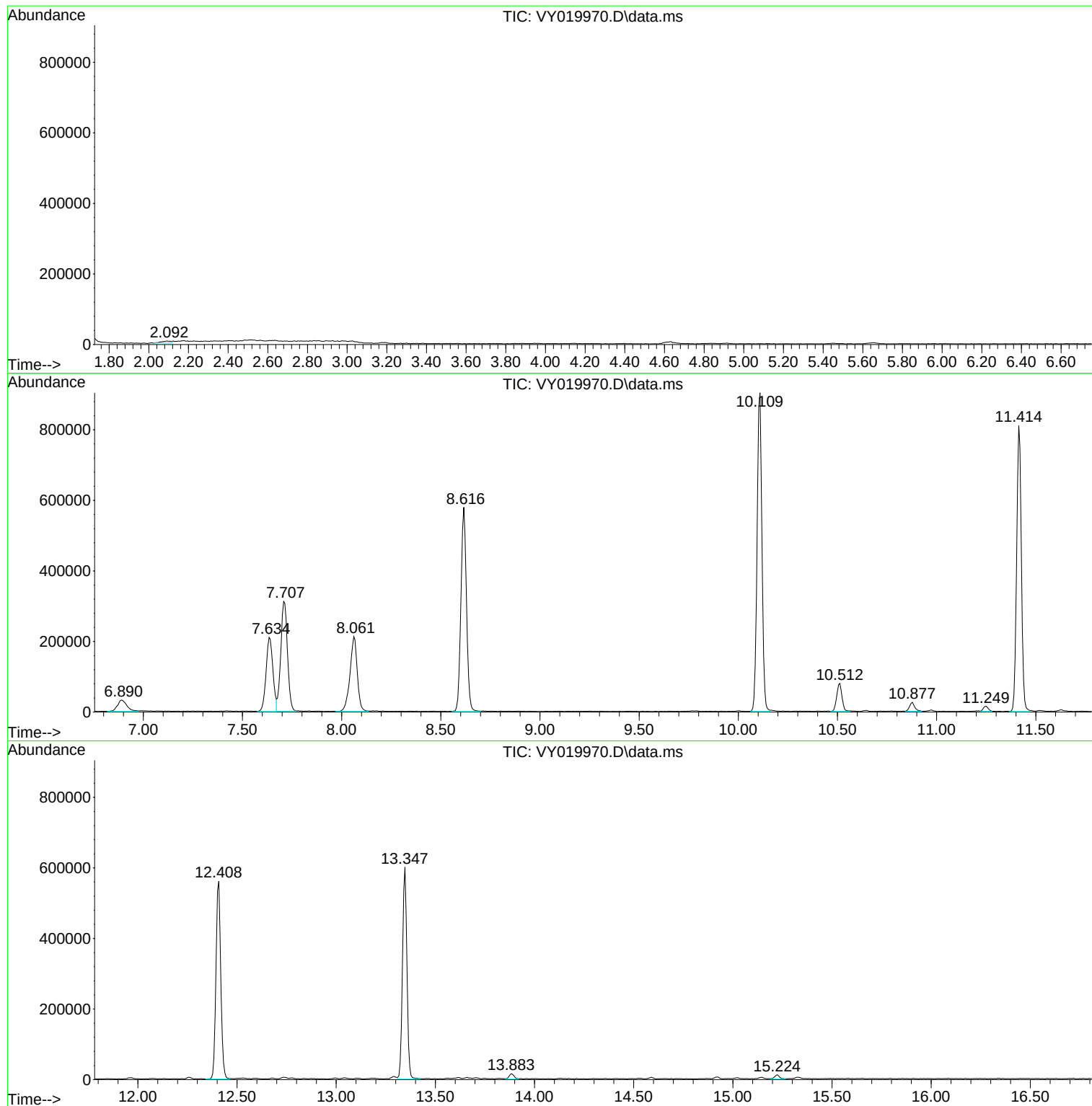
Sum of corrected areas: 8027865

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBL01	SDG No.:	P4471
Lab Sample ID:	VY1023SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019986.D	1		10/23/24 11:35	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBL01	SDG No.:	P4471
Lab Sample ID:	VY1023SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019986.D	1		10/23/24 11:35	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		70 (50) - 130 (163)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		70 (29) - 130 (146)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	239000	7.707			
540-36-3	1,4-Difluorobenzene	486000	8.616			
3114-55-4	Chlorobenzene-d5	428000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1023SBL01		SDG No.:	P4471
Lab Sample ID:	VY1023SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	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
VY019986.D	1		10/23/24 11:35	VY102324

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_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Time: Oct 23 23:04:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	239192	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	486232	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	427644	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	145538	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	158528	53.827	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	107.660%
35) Dibromofluoromethane	7.634	113	160195	49.927	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.860%
50) Toluene-d8	10.103	98	595787	50.282	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.560%
62) 4-Bromofluorobenzene	12.408	95	179787	41.993	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	83.980%

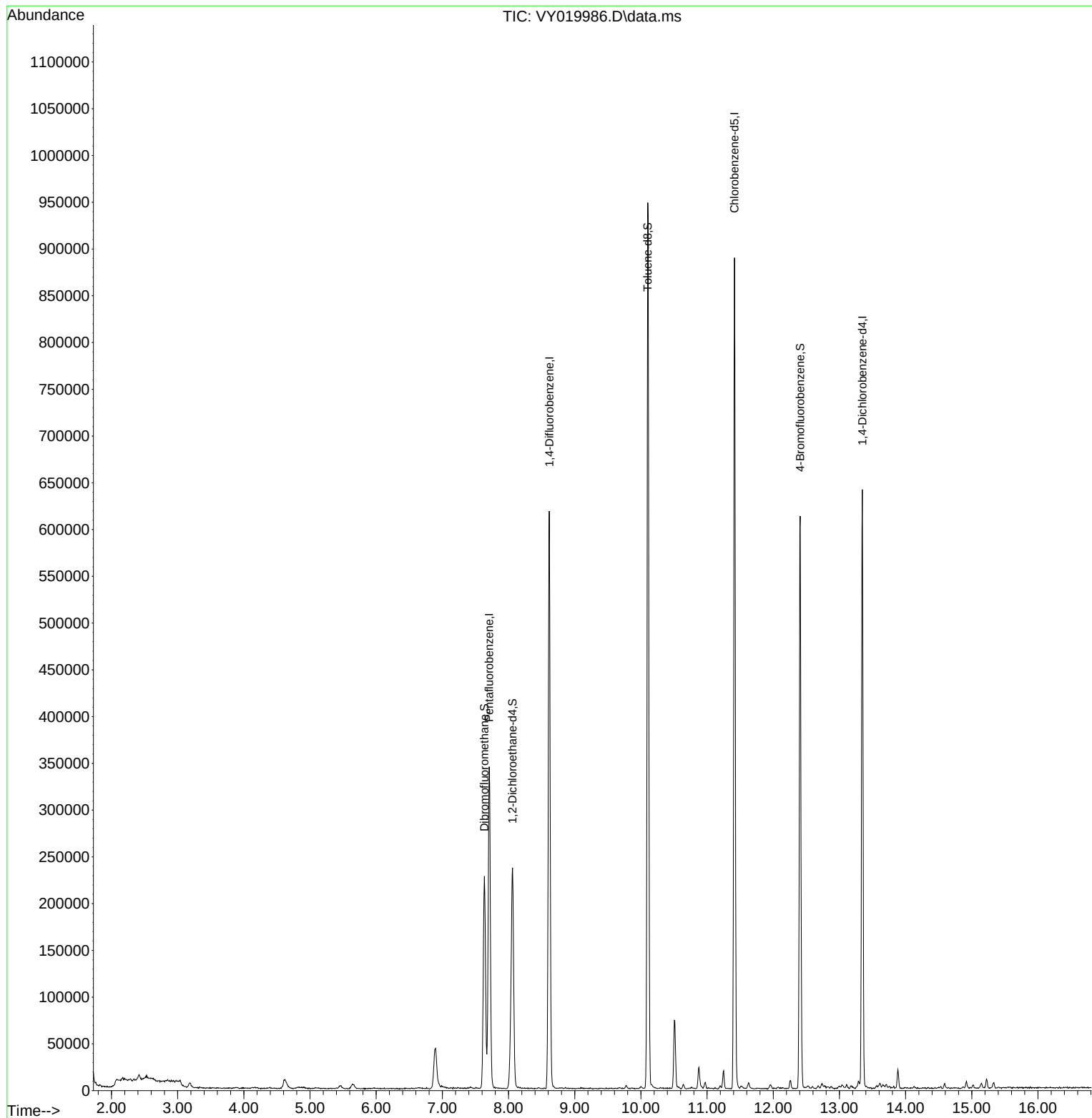
Target Compounds	Qvalue

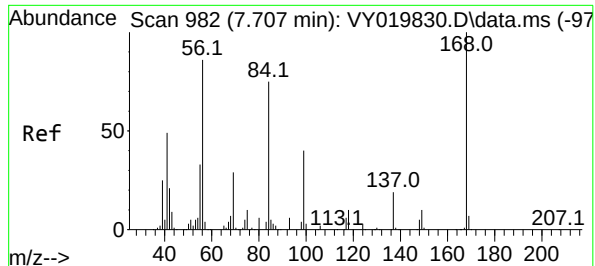
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Time: Oct 23 23:04:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

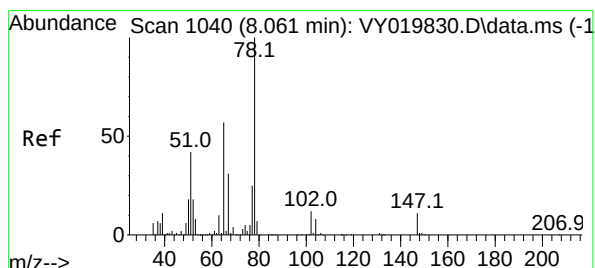
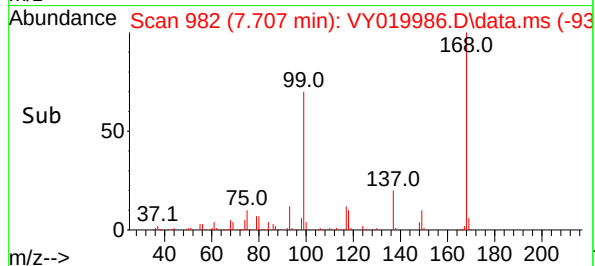
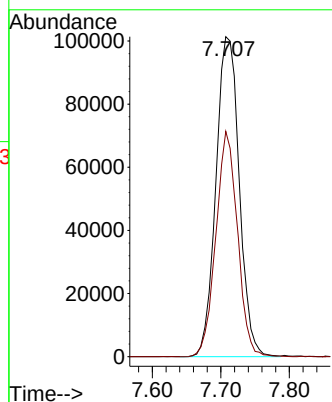
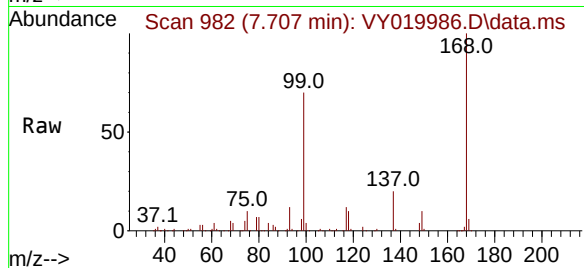




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

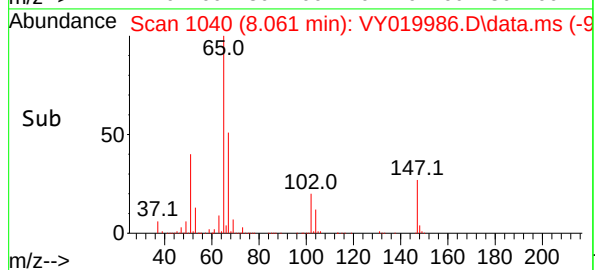
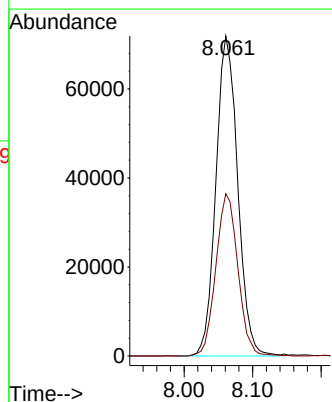
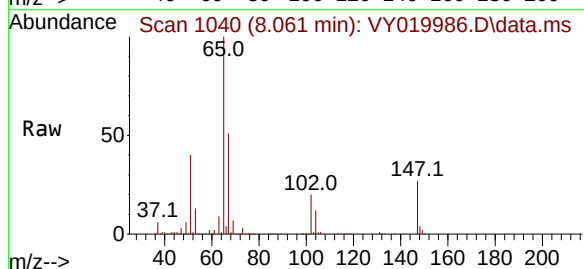
Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

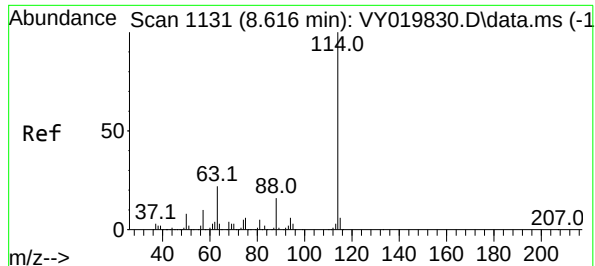
Tgt Ion:168 Resp: 239192
Ion Ratio Lower Upper
168 100
99 70.4 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 53.827 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Tgt Ion: 65 Resp: 158528
Ion Ratio Lower Upper
65 100
67 51.3 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019986.D

Acq: 23 Oct 2024 11:35

Instrument :

MSVOA_Y

ClientSampleId :

VY1023SBL01

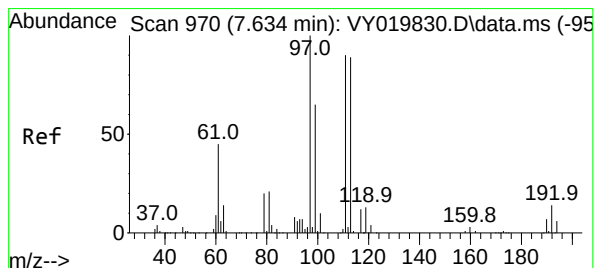
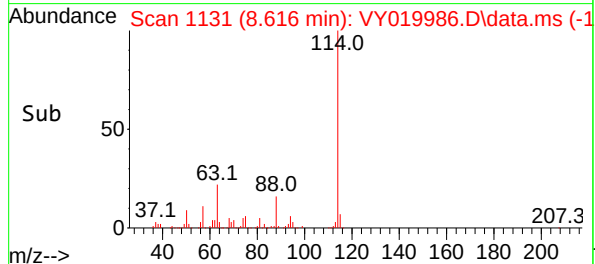
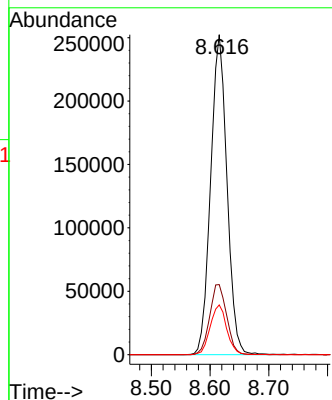
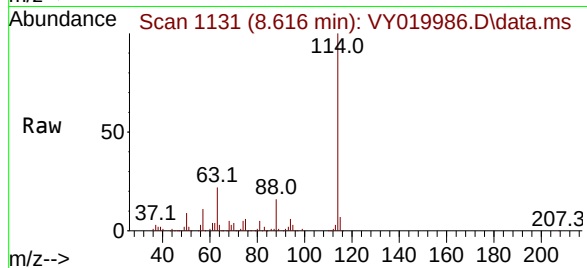
Tgt Ion:114 Resp: 486232

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.0

88 15.5 0.0 27.2



#35

Dibromofluoromethane

Concen: 49.927 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019986.D

Acq: 23 Oct 2024 11:35

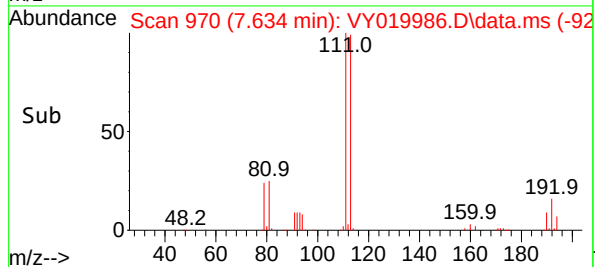
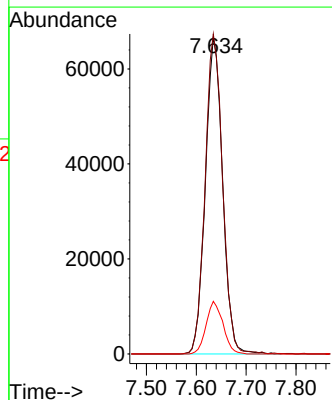
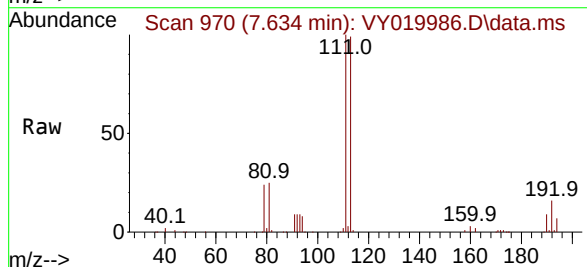
Tgt Ion:113 Resp: 160195

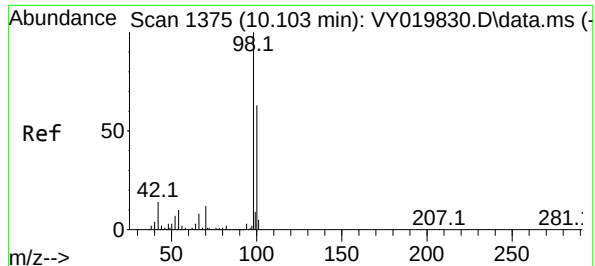
Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 16.3 15.9 23.9





#50

Toluene-d8

Concen: 50.282 ug/l

RT: 10.103 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019986.D

Acq: 23 Oct 2024 11:35

Instrument :

MSVOA_Y

ClientSampleId :

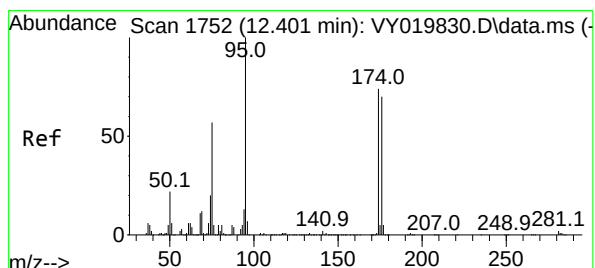
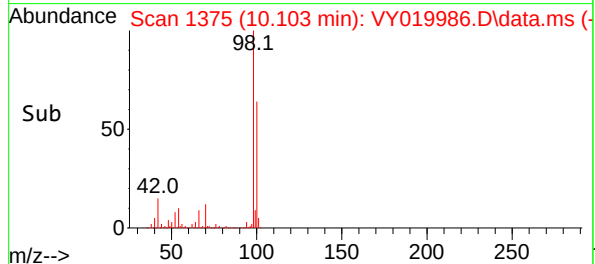
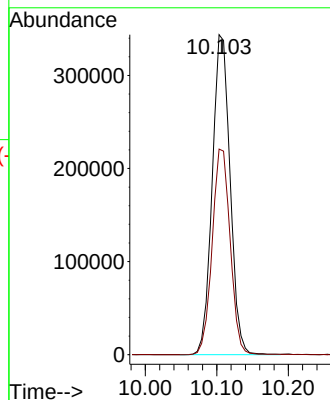
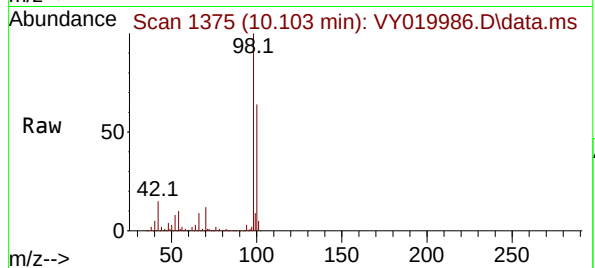
VY1023SBL01

Tgt Ion: 98 Resp: 595787

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 41.993 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY019986.D

Acq: 23 Oct 2024 11:35

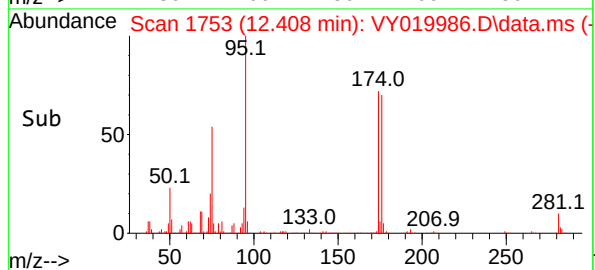
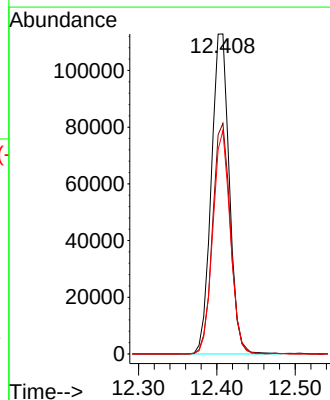
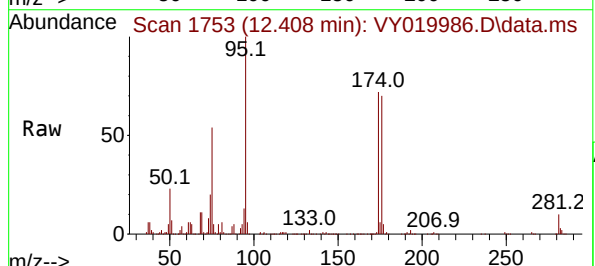
Tgt Ion: 95 Resp: 179787

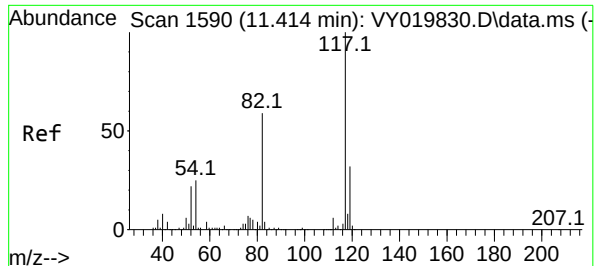
Ion Ratio Lower Upper

95 100

174 71.5 0.0 175.6

176 67.8 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019986.D

Acq: 23 Oct 2024 11:35

Instrument :

MSVOA_Y

ClientSampleId :

VY1023SBL01

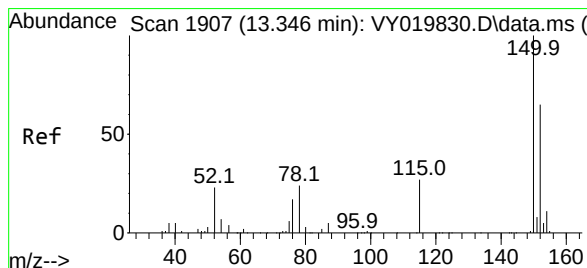
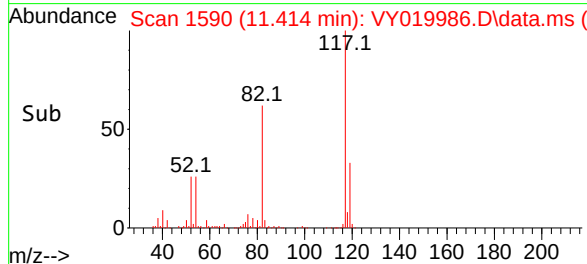
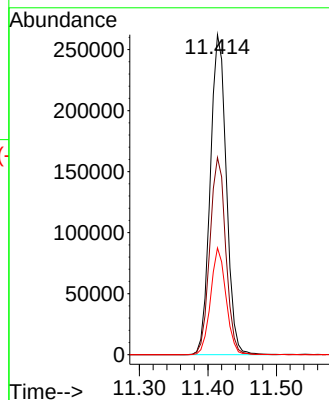
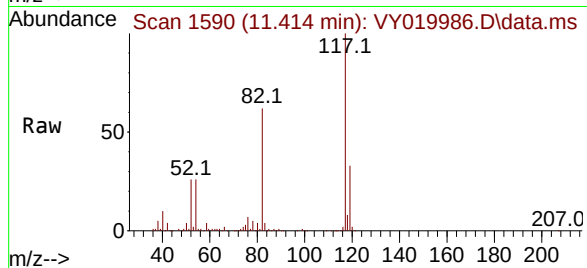
Tgt Ion:117 Resp: 427644

Ion Ratio Lower Upper

117 100

82 61.6 42.4 63.6

119 33.3 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019986.D

Acq: 23 Oct 2024 11:35

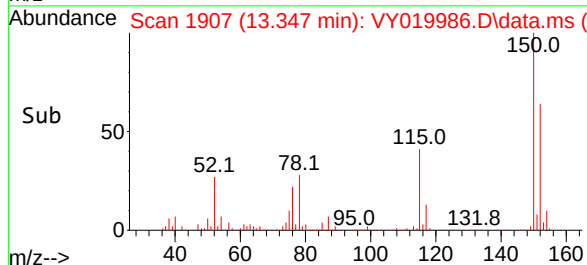
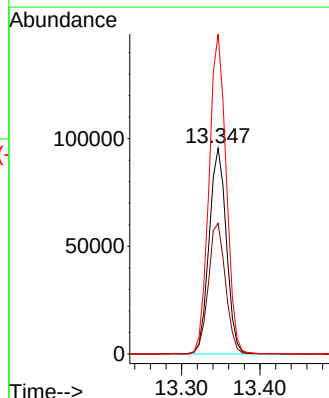
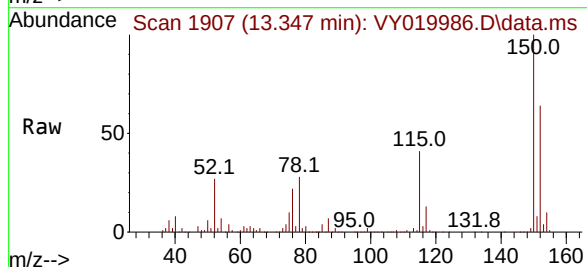
Tgt Ion:152 Resp: 145538

Ion Ratio Lower Upper

152 100

115 63.6 28.2 84.7

150 155.6 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019986.D
 Acq On : 23 Oct 2024 11:35
 Operator : SY/MD
 Sample : VY1023SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1023SBL01

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_Y\methods\82Y100924S.M

Title : SW846 8260

Signal : TIC: VY019986.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	46	59	62	rBV9	8295	25780	1.56%	0.294%
2	6.896	834	849	862	rBV	43709	151733	9.17%	1.730%
3	7.634	960	970	976	rBV	226787	540422	32.67%	6.163%
4	7.707	976	982	994	rVB	343585	783314	47.36%	8.933%
5	8.061	1022	1040	1053	rBV2	236327	649351	39.26%	7.405%
6	8.616	1123	1131	1140	rBV	617660	1210565	73.18%	13.805%
7	10.103	1367	1375	1384	rBV	946967	1654124	100.00%	18.863%
8	10.506	1434	1441	1451	rBV	72864	142236	8.60%	1.622%
9	10.877	1493	1502	1512	rBV4	22859	46203	2.79%	0.527%
10	11.249	1558	1563	1570	rVB	18939	30456	1.84%	0.347%
11	11.414	1582	1590	1603	rBV	888851	1444498	87.33%	16.473%
12	12.408	1745	1753	1762	rBV2	611747	1035224	62.58%	11.806%
13	13.347	1900	1907	1915	rVB	638993	1003727	60.68%	11.446%
14	13.883	1987	1995	2001	rVB2	20104	34051	2.06%	0.388%
15	15.224	2209	2215	2221	rVV4	9902	17287	1.05%	0.197%

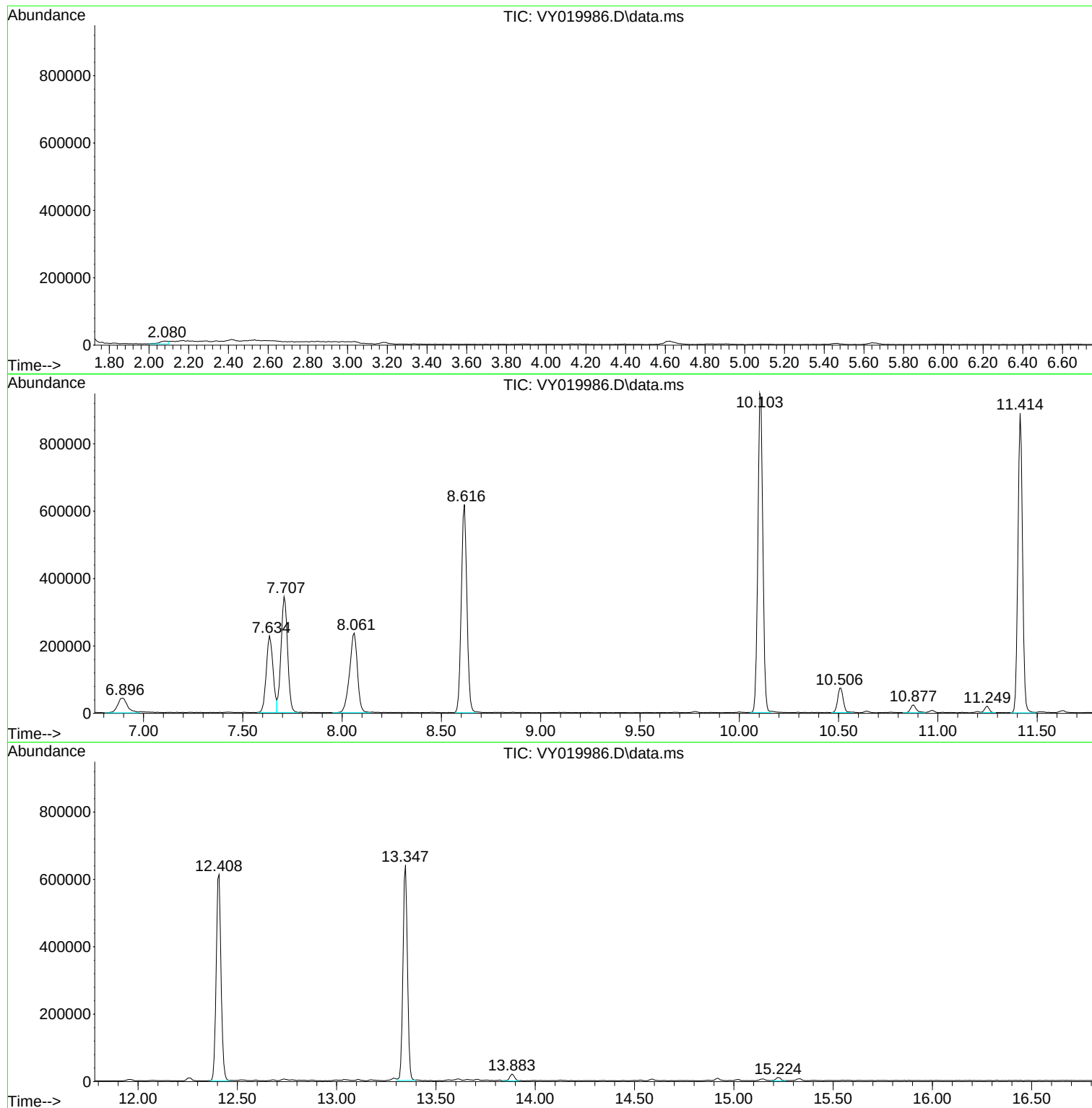
Sum of corrected areas: 8768971

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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--			
					#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1021WBS01			SDG No.:	P4471
Lab Sample ID:	VN1021WBS01			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
VN084433.D	1		10/21/24 13:48	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.1		0.21	1.00	ug/L
74-87-3	Chloromethane	16.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	16.7		0.34	1.00	ug/L
74-83-9	Bromomethane	16.5		1.40	5.00	ug/L
75-00-3	Chloroethane	15.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.26	1.00	ug/L
67-64-1	Acetone	87.5		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	14.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.0		1.60	5.00	ug/L
78-93-3	2-Butanone	88.7		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.25	1.00	ug/L
74-97-5	Bromochloromethane	19.6		0.18	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.2		0.19	1.00	ug/L
71-43-2	Benzene	19.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.6		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.5		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.8		0.75	5.00	ug/L
108-88-3	Toluene	19.6		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBS01	SDG No.:	P4471
Lab Sample ID:	VN1021WBS01	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
VN084433.D	1		10/21/24 13:48	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	96.1		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.5		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	1.00	ug/L
100-42-5	Styrene	19.5		0.16	1.00	ug/L
75-25-2	Bromoform	19.5		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.6		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	53.9		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	190000	8.224			
540-36-3	1,4-Difluorobenzene	323000	9.1			
3114-55-4	Chlorobenzene-d5	284000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBS01	SDG No.:	P4471
Lab Sample ID:	VN1021WBS01	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
VN084433.D	1		10/21/24 13:48	VN102124

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\VN102124\
 Data File : VN084433.D
 Acq On : 21 Oct 2024 13:48
 Operator : JC\MD
 Sample : VN1021WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/22/2024
 Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:32:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	189913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	322919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	284161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138325	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	142332	50.547	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.100%			
35) Dibromofluoromethane	8.165	113	115508	54.258	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.520%			
50) Toluene-d8	10.565	98	422532	53.947	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.900%			
62) 4-Bromofluorobenzene	12.847	95	149865	52.521	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.040%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	36261	16.142	ug/l	95
3) Chloromethane	2.359	50	41235	16.076	ug/l	96
4) Vinyl Chloride	2.512	62	41507	16.706	ug/l	100
5) Bromomethane	2.953	94	26963	16.453	ug/l	98
6) Chloroethane	3.124	64	26726	15.020	ug/l	99
7) Trichlorofluoromethane	3.500	101	70146	18.131	ug/l	98
8) Diethyl Ether	3.965	74	24127	16.814	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.377	101	40161	18.116	ug/l	98
10) Methyl Iodide	4.589	142	48908	17.131	ug/l	96
11) Tert butyl alcohol	5.518	59	36415	78.429	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	37659	17.612	ug/l	97
13) Acrolein	4.183	56	26602	49.907	ug/l	98
14) Allyl chloride	5.024	41	58352	15.713	ug/l	98
15) Acrylonitrile	5.718	53	109279	93.202	ug/l	99
16) Acetone	4.430	43	105837	87.496	ug/l	96
17) Carbon Disulfide	4.712	76	96169	14.205	ug/l	100
18) Methyl Acetate	5.030	43	59251	22.474	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	130984	18.149	ug/l	98
20) Methylene Chloride	5.271	84	45743	18.603	ug/l	91
21) trans-1,2-Dichloroethene	5.789	96	38888	17.359	ug/l	95
22) Diisopropyl ether	6.671	45	141732	18.451	ug/l	98
23) Vinyl Acetate	6.600	43	468614	82.252	ug/l	98
24) 1,1-Dichloroethane	6.571	63	82481	19.201	ug/l	97
25) 2-Butanone	7.483	43	146074	88.663	ug/l	98
26) 2,2-Dichloropropane	7.488	77	71005	18.333	ug/l	98
27) cis-1,2-Dichloroethene	7.494	96	49184	18.169	ug/l	98
28) Bromochloromethane	7.812	49	37550	19.592	ug/l	97
29) Tetrahydrofuran	7.841	42	90421	88.935	ug/l	98
30) Chloroform	7.971	83	84755	18.995	ug/l	100
31) Cyclohexane	8.259	56	66762	16.007	ug/l #	97
32) 1,1,1-Trichloroethane	8.171	97	74940	18.700	ug/l	97
36) 1,1-Dichloropropene	8.371	75	56161	18.162	ug/l	97
37) Ethyl Acetate	7.559	43	57455	18.111	ug/l	99
38) Carbon Tetrachloride	8.365	117	64152	18.912	ug/l	94
39) Methylcyclohexane	9.600	83	55643	16.168	ug/l	96
40) Benzene	8.606	78	183073	19.002	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084433.D
 Acq On : 21 Oct 2024 13:48
 Operator : JC\MD
 Sample : VN1021WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/22/2024
 Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:32:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	29860	17.338	ug/l	93
42) 1,2-Dichloroethane	8.671	62	61753	18.907	ug/l	99
43) Isopropyl Acetate	8.688	43	94050	15.136	ug/l	98
44) Trichloroethene	9.347	130	43127	19.166	ug/l	98
45) 1,2-Dichloropropane	9.624	63	44771	19.644	ug/l	98
46) Dibromomethane	9.706	93	31378	20.401	ug/l	96
47) Bromodichloromethane	9.888	83	66599	19.490	ug/l	96
48) Methyl methacrylate	9.682	41	43352	17.526	ug/l	98
49) 1,4-Dioxane	9.694	88	16997	373.245	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	292338	96.801	ug/l	100
52) Toluene	10.629	92	114864	19.551	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	64356	18.476	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	70777	18.891	ug/l	96
55) 1,1,2-Trichloroethane	11.012	97	43053	20.441	ug/l	97
56) Ethyl methacrylate	10.871	69	65255	18.829	ug/l	96
57) 1,3-Dichloropropane	11.165	76	74113	19.693	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	139755	86.930	ug/l	98
59) 2-Hexanone	11.194	43	216944	96.112	ug/l	99
60) Dibromochloromethane	11.359	129	50030	20.104	ug/l	99
61) 1,2-Dibromoethane	11.465	107	41569	18.994	ug/l	98
64) Tetrachloroethene	11.100	164	37454	18.924	ug/l	95
65) Chlorobenzene	11.888	112	121076	19.217	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.959	131	43109	19.865	ug/l	99
67) Ethyl Benzene	11.965	91	205793	18.470	ug/l	100
68) m/p-Xylenes	12.070	106	158675	38.498	ug/l	100
69) o-Xylene	12.400	106	78180	20.049	ug/l	96
70) Styrene	12.412	104	129069	19.541	ug/l	99
71) Bromoform	12.576	173	31202	19.529	ug/l #	95
73) Isopropylbenzene	12.694	105	191996	18.189	ug/l	98
74) N-amyl acetate	12.494	43	79653	16.664	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	61726	19.448	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	58038m	20.552	ug/l	
77) Bromobenzene	12.982	156	48284	18.964	ug/l	95
78) n-propylbenzene	13.035	91	231176	18.903	ug/l	99
79) 2-Chlorotoluene	13.123	91	145730	18.674	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	168330	19.550	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	19953	16.940	ug/l	98
82) 4-Chlorotoluene	13.217	91	149766	19.064	ug/l	100
83) tert-Butylbenzene	13.435	119	141261	18.459	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	169548	19.547	ug/l	99
85) sec-Butylbenzene	13.617	105	195385	19.133	ug/l	99
86) p-Isopropyltoluene	13.729	119	161505	19.125	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	88692	18.569	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	90608	18.784	ug/l	99
89) n-Butylbenzene	14.053	91	132089	17.250	ug/l	99
90) Hexachloroethane	14.329	117	31571	18.419	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	85799	18.319	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11177	17.065	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	40526	17.567	ug/l	100
94) Hexachlorobutadiene	15.500	225	19271	16.751	ug/l	98
95) Naphthalene	15.641	128	119595	15.638	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	39826	17.247	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084433.D
Acq On : 21 Oct 2024 13:48
Operator : JC\MD
Sample : VN1021WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:32:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

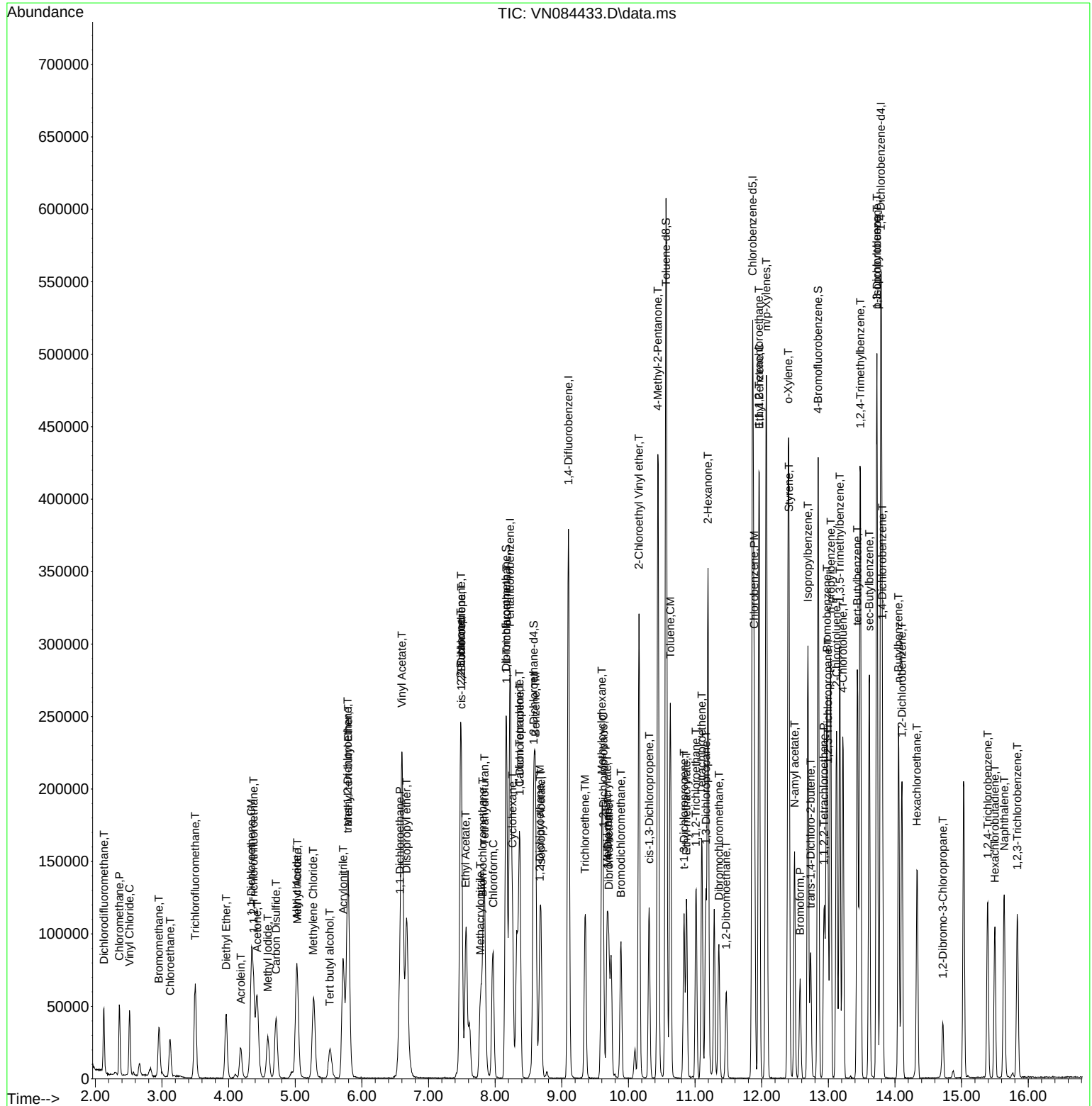
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084433.D
Acq On : 21 Oct 2024 13:48
Operator : JC\MD
Sample : VN1021WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBS01

Manual Integrations

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:32:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBS01	SDG No.:	P4471
Lab Sample ID:	VY1022SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	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
VY019971.D	1		10/22/24 11:16	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.9		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.9		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.2		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	13.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.1		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.0		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.0		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.6		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.6		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.7		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBS01	SDG No.:	P4471
Lab Sample ID:	VY1022SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019971.D	1		10/22/24 11:16	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.8		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.3		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	20.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.4		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.1		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.5		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	51.4		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (29) - 130 (146)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	216000	7.713			
540-36-3	1,4-Difluorobenzene	380000	8.616			
3114-55-4	Chlorobenzene-d5	332000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1022SBS01		SDG No.:	P4471
Lab Sample ID:	VY1022SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	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
VY019971.D	1		10/22/24 11:16	VY102224

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_Y\Data\VY102224\
 Data File : VY019971.D
 Acq On : 22 Oct 2024 11:16
 Operator : SY/MD
 Sample : VY1022SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1022SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/23/2024
 Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:24:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	215657	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	379714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	332435	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	160914	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	141380	53.243	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.480%	
35) Dibromofluoromethane	7.634	113	133012	53.084	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.160%	
50) Toluene-d8	10.109	98	475907	51.432	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.860%	
62) 4-Bromofluorobenzene	12.402	95	170290	50.932	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 101.860%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	33223	16.549	ug/l	98
3) Chloromethane	2.068	50	49488	18.940	ug/l	100
4) Vinyl Chloride	2.208	62	55873	19.432	ug/l	98
5) Bromomethane	2.598	94	37858	20.801	ug/l	100
6) Chloroethane	2.739	64	38712	20.041	ug/l	100
7) Trichlorofluoromethane	3.062	101	85347	19.948	ug/l	96
8) Diethyl Ether	3.452	74	25847	19.877	ug/l	77
9) 1,1,2-Trichlorotrifluo...	3.824	101	50745	20.391	ug/l	93
10) Methyl Iodide	4.007	142	41636	16.542	ug/l	91
11) Tert butyl alcohol	4.866	59	25021m	106.212	ug/l	
12) 1,1-Dichloroethene	3.793	96	42185	18.234	ug/l #	83
13) Acrolein	3.659	56	16151	82.776	ug/l	98
14) Allyl chloride	4.385	41	81015	19.408	ug/l #	89
15) Acrylonitrile	5.061	53	66986	112.627	ug/l	98
16) Acetone	3.873	43	78126	113.024	ug/l #	82
17) Carbon Disulfide	4.110	76	81763	13.185	ug/l	97
18) Methyl Acetate	4.385	43	31430	21.108	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	139186	20.941	ug/l	99
20) Methylene Chloride	4.622	84	56101	21.506	ug/l #	79
21) trans-1,2-Dichloroethene	5.116	96	45321	17.999	ug/l #	83
22) Diisopropyl ether	6.019	45	203752	22.409	ug/l	89
23) Vinyl Acetate	5.964	43	546717	104.884	ug/l #	89
24) 1,1-Dichloroethane	5.921	63	108940	21.554	ug/l	94
25) 2-Butanone	6.896	43	102585	110.874	ug/l #	86
26) 2,2-Dichloropropane	6.884	77	90383	20.079	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	62331	20.031	ug/l	80
28) Bromochloromethane	7.244	49	48033	21.591	ug/l #	70
29) Tetrahydrofuran	7.262	42	54967	104.047	ug/l #	83
30) Chloroform	7.421	83	112806	21.894	ug/l	97
31) Cyclohexane	7.701	56	80071	18.047	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	92780	20.548	ug/l #	93
36) 1,1-Dichloropropene	7.835	75	71236	19.734	ug/l	94
37) Ethyl Acetate	6.988	43	40100	21.303	ug/l	95
38) Carbon Tetrachloride	7.817	117	76692	19.817	ug/l	97
39) Methylcyclohexane	9.110	83	80260	17.646	ug/l #	87
40) Benzene	8.079	78	219502	20.092	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019971.D
 Acq On : 22 Oct 2024 11:16
 Operator : SY/MD
 Sample : VY1022SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1022SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/23/2024
 Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:24:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	19341	18.985	ug/l	92
42) 1,2-Dichloroethane	8.158	62	65423	20.844	ug/l	95
43) Isopropyl Acetate	8.195	43	79333	20.666	ug/l #	80
44) Trichloroethene	8.866	130	50367	19.035	ug/l	93
45) 1,2-Dichloropropane	9.140	63	59274	21.677	ug/l	98
46) Dibromomethane	9.231	93	30961	20.724	ug/l	89
47) Bromodichloromethane	9.420	83	86000	21.687	ug/l #	99
48) Methyl methacrylate	9.219	41	34794	20.605	ug/l #	80
49) 1,4-Dioxane	9.231	88	7330	438.363	ug/l #	93
51) 4-Methyl-2-Pentanone	10.000	43	217037	110.843	ug/l	90
52) Toluene	10.170	92	138788	20.352	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	72028	20.187	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	83472	19.826	ug/l #	80
55) 1,1,2-Trichloroethane	10.573	97	44204	22.457	ug/l	95
56) Ethyl methacrylate	10.439	69	58852	20.837	ug/l #	75
57) 1,3-Dichloropropane	10.713	76	74227	21.473	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	135351	102.941	ug/l	91
59) 2-Hexanone	10.762	43	158039	113.005	ug/l	86
60) Dibromochloromethane	10.914	129	52796	20.897	ug/l	100
61) 1,2-Dibromoethane	11.012	107	36218	20.362	ug/l	100
64) Tetrachloroethene	10.646	164	43834	18.538	ug/l	98
65) Chlorobenzene	11.438	112	153304	20.162	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.512	131	52074	20.242	ug/l	100
67) Ethyl Benzene	11.518	91	275703	19.961	ug/l	100
68) m/p-Xylenes	11.627	106	200508	39.306	ug/l	91
69) o-Xylene	11.950	106	94910	19.365	ug/l	87
70) Styrene	11.969	104	166953	20.190	ug/l	96
71) Bromoform	12.133	173	28091	20.398	ug/l #	92
73) Isopropylbenzene	12.255	105	267844	19.789	ug/l	98
74) N-amyl acetate	12.066	43	72695	20.278	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	53178	22.111	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	34549m	10.960	ug/l	
77) Bromobenzene	12.530	156	55338	19.267	ug/l	83
78) n-propylbenzene	12.591	91	329337	20.137	ug/l	97
79) 2-Chlorotoluene	12.676	91	186478	19.889	ug/l	95
80) 1,3,5-Trimethylbenzene	12.737	105	213940	19.572	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.298	75	15058	19.281	ug/l #	82
82) 4-Chlorotoluene	12.773	91	190256	19.845	ug/l	95
83) tert-Butylbenzene	12.993	119	202672	20.697	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	208163	19.208	ug/l	100
85) sec-Butylbenzene	13.176	105	302618	20.684	ug/l	96
86) p-Isopropyltoluene	13.292	119	239445	20.155	ug/l	95
87) 1,3-Dichlorobenzene	13.286	146	112443	19.386	ug/l	95
88) 1,4-Dichlorobenzene	13.365	146	111972	19.650	ug/l	97
89) n-Butylbenzene	13.615	91	237965	20.513	ug/l	98
90) Hexachloroethane	13.877	117	47683	20.612	ug/l	85
91) 1,2-Dichlorobenzene	13.657	146	103209	20.251	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8010	20.869	ug/l	67
93) 1,2,4-Trichlorobenzene	14.919	180	51648	18.073	ug/l	98
94) Hexachlorobutadiene	15.023	225	31251	19.670	ug/l	96
95) Naphthalene	15.145	128	98435	18.263	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	44764	18.530	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019971.D
Acq On : 22 Oct 2024 11:16
Operator : SY/MD
Sample : VY1022SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:24:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

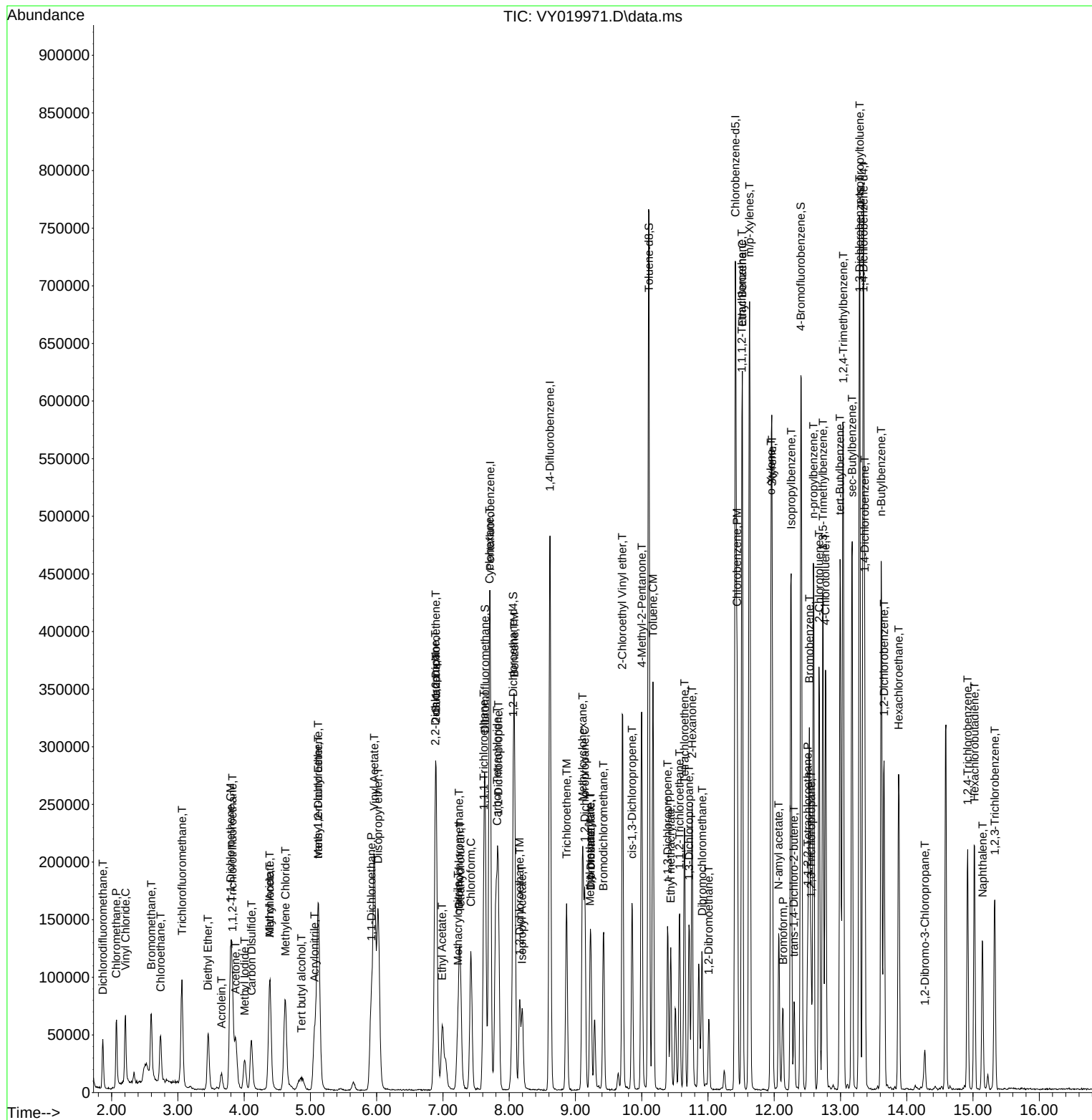
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBS01

Manual Integrations

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBS01	SDG No.:	P4471
Lab Sample ID:	VY1023SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	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
VY019987.D	1		10/23/24 12:20	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.8		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	14.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.8		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	23.8		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.6		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.0		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.4		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.8		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBS01	SDG No.:	P4471
Lab Sample ID:	VY1023SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	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
VY019987.D	1		10/23/24 12:20	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.0		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.4		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.1		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (50) - 130 (163)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	57.1		70 (54) - 130 (147)	114%	SPK: 50
2037-26-5	Toluene-d8	54.6		70 (58) - 130 (134)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		70 (29) - 130 (146)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	7.713			
540-36-3	1,4-Difluorobenzene	420000	8.615			
3114-55-4	Chlorobenzene-d5	359000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1023SBS01		SDG No.:	P4471
Lab Sample ID:	VY1023SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	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
VY019987.D	1		10/23/24 12:20	VY102324

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_Y\Data\VY102324\
 Data File : VY019987.D
 Acq On : 23 Oct 2024 12:20
 Operator : SY/MD
 Sample : VY1023SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1023SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

Quant Time: Oct 23 23:05:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						10/24/2024
1) Pentafluorobenzene	7.713	168	228334	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	420481	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	359220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	165743	50.000	ug/l	0.00
System Monitoring Compounds						10/24/2024
33) 1,2-Dichloroethane-d4	8.061	65	166994	59.398	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 118.800%	
35) Dibromofluoromethane	7.634	113	158432	57.099	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.200%	
50) Toluene-d8	10.109	98	559606	54.614	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 109.220%	
62) 4-Bromofluorobenzene	12.407	95	200269	54.092	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 108.180%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35636	16.765	ug/l	94
3) Chloromethane	2.074	50	51598	18.651	ug/l	99
4) Vinyl Chloride	2.208	62	59853	19.660	ug/l	97
5) Bromomethane	2.592	94	41112	21.335	ug/l	95
6) Chloroethane	2.738	64	44191	21.607	ug/l	94
7) Trichlorofluoromethane	3.061	101	95584	21.100	ug/l	95
8) Diethyl Ether	3.458	74	28312	20.564	ug/l	75
9) 1,1,2-Trichlorotrifluo...	3.817	101	57085	21.665	ug/l	89
10) Methyl Iodide	4.006	142	46418	17.418	ug/l #	90
11) Tert butyl alcohol	4.854	59	25965	103.724	ug/l #	85
12) 1,1-Dichloroethene	3.793	96	47789	19.509	ug/l #	80
13) Acrolein	3.659	56	16673	80.707	ug/l	95
14) Allyl chloride	4.391	41	91223	20.640	ug/l #	88
15) Acrylonitrile	5.067	53	73154	116.169	ug/l	98
16) Acetone	3.872	43	83004	113.414	ug/l #	86
17) Carbon Disulfide	4.104	76	91942	14.003	ug/l	100
18) Methyl Acetate	4.397	43	35434	22.475	ug/l #	88
19) Methyl tert-butyl Ether	5.122	73	158778	22.562	ug/l	99
20) Methylene Chloride	4.616	84	57868	20.930	ug/l #	83
21) trans-1,2-Dichloroethene	5.122	96	52886	19.837	ug/l	87
22) Diisopropyl ether	6.018	45	225339	23.407	ug/l #	87
23) Vinyl Acetate	5.963	43	616904	111.778	ug/l #	90
24) 1,1-Dichloroethane	5.915	63	120385	22.496	ug/l	95
25) 2-Butanone	6.890	43	112972	115.321	ug/l #	80
26) 2,2-Dichloropropane	6.890	77	100233	21.031	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	71565	21.721	ug/l	83
28) Bromochloromethane	7.250	49	53979	22.917	ug/l #	73
29) Tetrahydrofuran	7.262	42	63175	112.944	ug/l #	81
30) Chloroform	7.420	83	129608	23.759	ug/l	99
31) Cyclohexane	7.707	56	89518	19.056	ug/l	90
32) 1,1,1-Trichloroethane	7.616	97	107871	22.564	ug/l	95
36) 1,1-Dichloropropene	7.835	75	79224	19.819	ug/l	94
37) Ethyl Acetate	6.988	43	45952	22.045	ug/l	97
38) Carbon Tetrachloride	7.817	117	85764	20.013	ug/l	96
39) Methylcyclohexane	9.109	83	90459	17.960	ug/l	88
40) Benzene	8.079	78	243387	20.118	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019987.D
 Acq On : 23 Oct 2024 12:20
 Operator : SY/MD
 Sample : VY1023SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1023SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

Quant Time: Oct 23 23:05:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
41) Methacrylonitrile	7.219	41	26358	23.364	ug/l	#	85
42) 1,2-Dichloroethane	8.158	62	76560	22.028	ug/l		93
43) Isopropyl Acetate	8.201	43	91000	21.407	ug/l	#	75
44) Trichloroethene	8.865	130	56769	19.374	ug/l		84
45) 1,2-Dichloropropane	9.146	63	64928	21.442	ug/l		98
46) Dibromomethane	9.231	93	33459	20.224	ug/l		90
47) Bromodichloromethane	9.426	83	95849	21.827	ug/l	#	97
48) Methyl methacrylate	9.219	41	40548	21.684	ug/l	#	79
49) 1,4-Dioxane	9.225	88	8279	447.113	ug/l	#	98
51) 4-Methyl-2-Pentanone	9.999	43	242857	112.004	ug/l		87
52) Toluene	10.170	92	153964	20.388	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	81507	20.629	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	95106	20.400	ug/l	#	84
55) 1,1,2-Trichloroethane	10.572	97	49121	22.536	ug/l		93
56) Ethyl methacrylate	10.438	69	65637	20.986	ug/l	#	77
57) 1,3-Dichloropropane	10.719	76	83548	21.826	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	154676	106.233	ug/l		94
59) 2-Hexanone	10.761	43	166037	107.214	ug/l		87
60) Dibromochloromethane	10.908	129	58828	21.027	ug/l		97
61) 1,2-Dibromoethane	11.017	107	40573	20.599	ug/l		99
64) Tetrachloroethene	10.645	164	46973	18.384	ug/l		92
65) Chlorobenzene	11.438	112	169018	20.571	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	58398	21.008	ug/l		98
67) Ethyl Benzene	11.517	91	306508	20.536	ug/l		100
68) m/p-Xylenes	11.627	106	223509	40.548	ug/l		91
69) o-Xylene	11.956	106	109070	20.594	ug/l		92
70) Styrene	11.968	104	185851	20.800	ug/l		96
71) Bromoform	12.127	173	30326	20.379	ug/l	#	97
73) Isopropylbenzene	12.255	105	301471	21.625	ug/l		98
74) N-amyl acetate	12.072	43	78264	21.196	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	57221	23.099	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	39912m	12.292	ug/l		
77) Bromobenzene	12.529	156	60828	20.561	ug/l		81
78) n-propylbenzene	12.596	91	366758	21.772	ug/l		96
79) 2-Chlorotoluene	12.676	91	205485	21.277	ug/l		96
80) 1,3,5-Trimethylbenzene	12.737	105	238134	21.151	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	16770	20.848	ug/l	#	79
82) 4-Chlorotoluene	12.773	91	213621	21.633	ug/l		94
83) tert-Butylbenzene	12.999	119	222024	22.013	ug/l		95
84) 1,2,4-Trimethylbenzene	13.041	105	234511	21.009	ug/l		96
85) sec-Butylbenzene	13.176	105	333139	22.107	ug/l		97
86) p-Isopropyltoluene	13.291	119	259118	21.175	ug/l		94
87) 1,3-Dichlorobenzene	13.285	146	126536	21.180	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	124913	21.283	ug/l		95
89) n-Butylbenzene	13.614	91	259332	21.704	ug/l		98
90) Hexachloroethane	13.883	117	51259	21.512	ug/l		83
91) 1,2-Dichlorobenzene	13.657	146	110711	21.090	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8102	20.494	ug/l		78
93) 1,2,4-Trichlorobenzene	14.919	180	56783	19.291	ug/l		98
94) Hexachlorobutadiene	15.023	225	32870	20.086	ug/l		97
95) Naphthalene	15.145	128	108325	19.512	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	47550	19.110	ug/l		98

10/24/2024
 Supervised By :Semsettin
 Yesilyurt

10/24/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019987.D
Acq On : 23 Oct 2024 12:20
Operator : SY/MD
Sample : VY1023SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

Quant Time: Oct 23 23:05:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

10/24/2024
Supervised By :Semsettin
Yesilyurt

10/24/2024

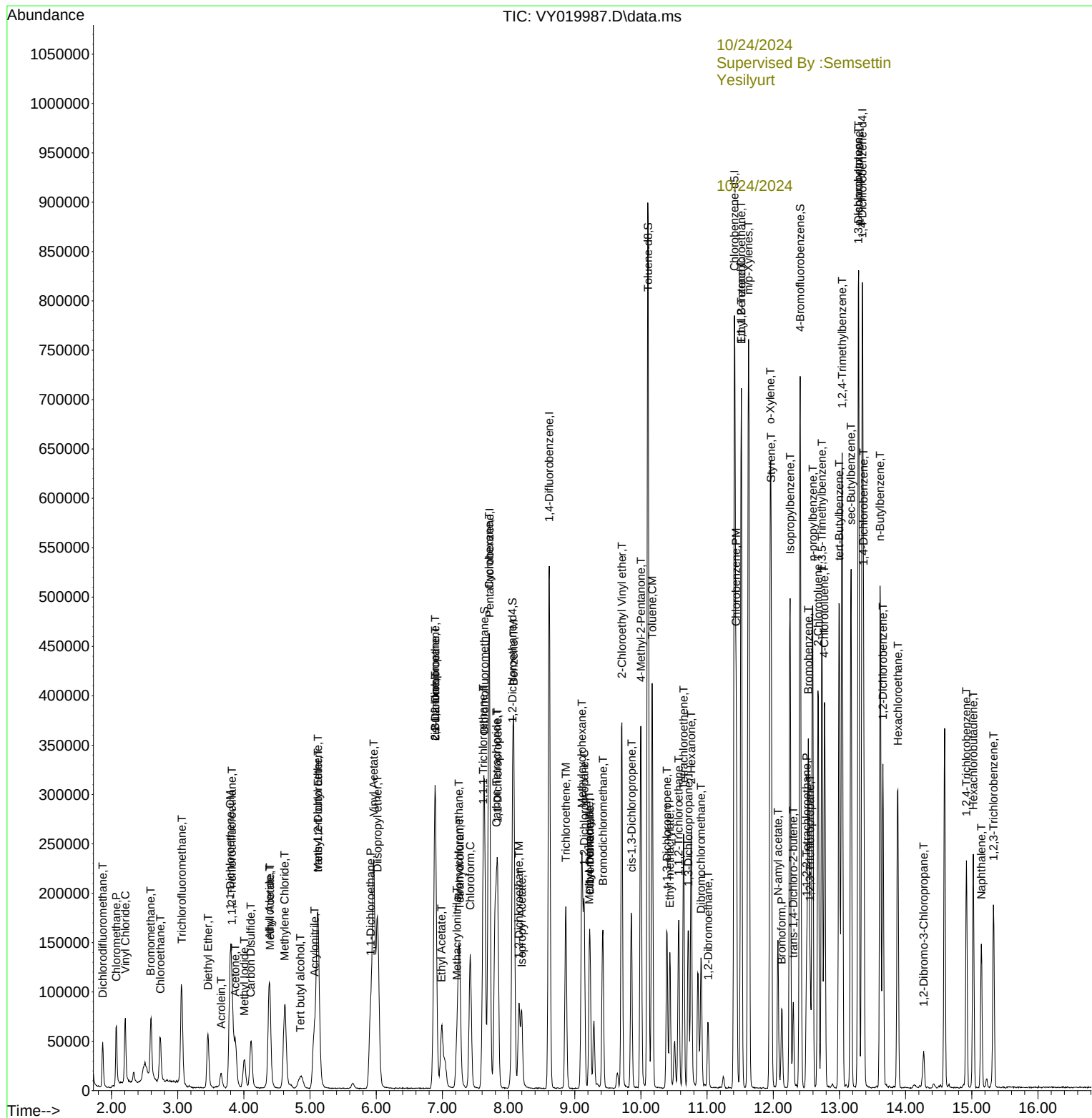
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
 Data File : VY019987.D
 Acq On : 23 Oct 2024 12:20
 Operator : SY/MD
 Sample : VY1023SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1023SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

Quant Time: Oct 23 23:05:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1021WBSD01			SDG No.:	P4471
Lab Sample ID:	VN1021WBSD01			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
VN084434.D	1		10/21/24 14:22	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.8		0.21	1.00	ug/L
74-87-3	Chloromethane	16.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.1		0.34	1.00	ug/L
74-83-9	Bromomethane	17.0		1.40	5.00	ug/L
75-00-3	Chloroethane	16.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		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	91.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	14.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	24.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.2		1.60	5.00	ug/L
78-93-3	2-Butanone	96.8		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.7		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	19.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.0		0.19	1.00	ug/L
71-43-2	Benzene	19.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.3		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1021WBSD01			SDG No.:	P4471
Lab Sample ID:	VN1021WBSD01			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
VN084434.D	1		10/21/24 14:22	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
95-47-6	o-Xylene	18.8		0.14	1.00	ug/L
100-42-5	Styrene	19.8		0.16	1.00	ug/L
75-25-2	Bromoform	20.7		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.4		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.8		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	8.224			
540-36-3	1,4-Difluorobenzene	279000	9.1			
3114-55-4	Chlorobenzene-d5	256000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VN1021WBSD01		SDG No.:	P4471
Lab Sample ID:	VN1021WBSD01		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
VN084434.D	1		10/21/24 14:22	VN102124

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\VN102124\
 Data File : VN084434.D
 Acq On : 21 Oct 2024 14:22
 Operator : JC\MD
 Sample : VN1021WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/22/2024
 Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:33:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	163086	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	278516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	124118	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123457	51.056	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.120%			
35) Dibromofluoromethane	8.165	113	97003	52.829	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.660%			
50) Toluene-d8	10.565	98	350013	51.812	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.620%			
62) 4-Bromofluorobenzene	12.847	95	129081	52.449	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.900%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	32472	16.833	ug/l	93
3) Chloromethane	2.359	50	35804	16.255	ug/l	98
4) Vinyl Chloride	2.512	62	36441	17.080	ug/l	99
5) Bromomethane	2.959	94	23913	16.992	ug/l	99
6) Chloroethane	3.118	64	24475	16.017	ug/l	96
7) Trichlorofluoromethane	3.501	101	63283	19.047	ug/l	90
8) Diethyl Ether	3.959	74	23522	19.089	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	36689	19.273	ug/l	98
10) Methyl Iodide	4.589	142	44167	18.016	ug/l	99
11) Tert butyl alcohol	5.518	59	35053	87.914	ug/l	97
12) 1,1-Dichloroethene	4.342	96	32588	17.747	ug/l	96
13) Acrolein	4.189	56	24397	53.300	ug/l	98
14) Allyl chloride	5.024	41	53083	16.646	ug/l	99
15) Acrylonitrile	5.718	53	102471	101.771	ug/l	97
16) Acetone	4.430	43	95163	91.613	ug/l	94
17) Carbon Disulfide	4.712	76	84276	14.496	ug/l	96
18) Methyl Acetate	5.030	43	54347	24.005	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	122872	19.826	ug/l	98
20) Methylene Chloride	5.271	84	42636	20.192	ug/l	84
21) trans-1,2-Dichloroethene	5.783	96	35388	18.395	ug/l	95
22) Diisopropyl ether	6.671	45	130999	19.859	ug/l	99
23) Vinyl Acetate	6.606	43	504977	103.215	ug/l	99
24) 1,1-Dichloroethane	6.571	63	72128	19.553	ug/l	96
25) 2-Butanone	7.483	43	136944	96.795	ug/l	97
26) 2,2-Dichloropropane	7.489	77	64755	19.469	ug/l	100
27) cis-1,2-Dichloroethene	7.489	96	44686	19.222	ug/l	98
28) Bromochloromethane	7.812	49	35788	21.744	ug/l	99
29) Tetrahydrofuran	7.841	42	85661	98.113	ug/l	97
30) Chloroform	7.965	83	76845	20.055	ug/l	97
31) Cyclohexane	8.253	56	58106	16.223	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	68247	19.832	ug/l	96
36) 1,1-Dichloropropene	8.371	75	49846	18.689	ug/l	99
37) Ethyl Acetate	7.559	43	52425	19.160	ug/l	99
38) Carbon Tetrachloride	8.359	117	56628	19.356	ug/l	96
39) Methylcyclohexane	9.600	83	50490	17.009	ug/l	98
40) Benzene	8.606	78	162968	19.612	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
 Data File : VN084434.D
 Acq On : 21 Oct 2024 14:22
 Operator : JC\MD
 Sample : VN1021WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/22/2024
 Supervised By : Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:33:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	29826	20.079	ug/l	97
42) 1,2-Dichloroethane	8.671	62	58026	20.598	ug/l	99
43) Isopropyl Acetate	8.688	43	88049	16.429	ug/l	97
44) Trichloroethene	9.353	130	37926	19.541	ug/l	97
45) 1,2-Dichloropropane	9.624	63	41049	20.882	ug/l	96
46) Dibromomethane	9.712	93	29187	22.002	ug/l	99
47) Bromodichloromethane	9.888	83	61715	20.940	ug/l	98
48) Methyl methacrylate	9.682	41	40695	19.075	ug/l	97
49) 1,4-Dioxane	9.694	88	16333	415.845	ug/l	97
51) 4-Methyl-2-Pentanone	10.447	43	271816	104.354	ug/l	99
52) Toluene	10.629	92	102809	20.289	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	59188	19.701	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	64640	20.003	ug/l	94
55) 1,1,2-Trichloroethane	11.012	97	40810	22.465	ug/l	96
56) Ethyl methacrylate	10.871	69	59539	19.919	ug/l	98
57) 1,3-Dichloropropane	11.165	76	68931	21.236	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	141699	102.191	ug/l	97
59) 2-Hexanone	11.194	43	198917	102.176	ug/l	99
60) Dibromochloromethane	11.359	129	46724	21.769	ug/l	98
61) 1,2-Dibromoethane	11.471	107	39150	20.741	ug/l	100
64) Tetrachloroethene	11.106	164	34348	19.288	ug/l	94
65) Chlorobenzene	11.888	112	110738	19.535	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	39189	20.071	ug/l	99
67) Ethyl Benzene	11.965	91	184057	18.360	ug/l	99
68) m/p-Xylenes	12.071	106	144045	38.843	ug/l	98
69) o-Xylene	12.400	106	66105	18.841	ug/l	93
70) Styrene	12.412	104	117753	19.814	ug/l	99
71) Bromoform	12.576	173	29825	20.747	ug/l #	99
73) Isopropylbenzene	12.694	105	173820	18.352	ug/l	99
74) N-amyl acetate	12.494	43	73994	17.252	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	58745	20.627	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	55231m	21.797	ug/l	
77) Bromobenzene	12.976	156	44718	19.574	ug/l	95
78) n-propylbenzene	13.035	91	210981	19.226	ug/l	100
79) 2-Chlorotoluene	13.123	91	129620	18.511	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	148466	19.217	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	18939	17.919	ug/l	99
82) 4-Chlorotoluene	13.218	91	135329	19.198	ug/l	97
83) tert-Butylbenzene	13.435	119	126785	18.464	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	153677	19.745	ug/l	98
85) sec-Butylbenzene	13.618	105	175585	19.162	ug/l	100
86) p-Isopropyltoluene	13.729	119	145633	19.220	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	82553	19.262	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	83788	19.359	ug/l	98
89) n-Butylbenzene	14.059	91	122012	17.758	ug/l	99
90) Hexachloroethane	14.329	117	27657	17.982	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	78881	18.770	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	10881	18.515	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	38616	18.655	ug/l	99
94) Hexachlorobutadiene	15.506	225	17729	17.175	ug/l	99
95) Naphthalene	15.641	128	115061	16.767	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	37660	18.175	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084434.D
Acq On : 21 Oct 2024 14:22
Operator : JC\MD
Sample : VN1021WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Quant Time: Oct 22 01:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

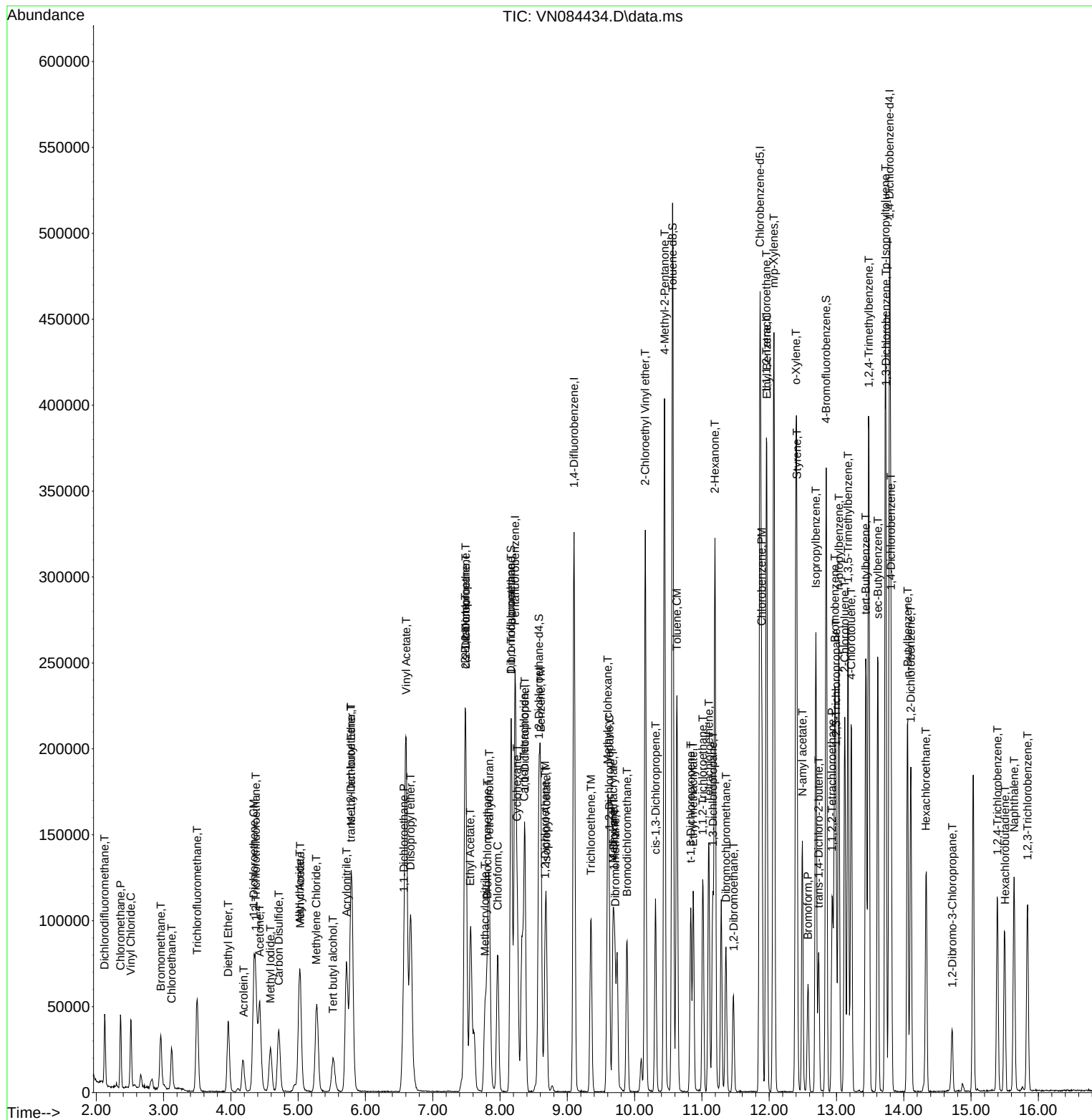

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\  
Data File : VN084434.D  
Acq On    : 21 Oct 2024   14:22  
Operator  : JC\MD  
Sample    : VN1021WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 9   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBSD01	SDG No.:	P4471
Lab Sample ID:	VY1022SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019972.D	1		10/22/24 11:38	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	17.4		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.4		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.7		0.78	5.00	ug/Kg
67-64-1	Acetone	120		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	13.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.4		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.3		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.6		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.4		0.87	5.00	ug/Kg
71-43-2	Benzene	20.2		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.7		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.8		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	20.6		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBSD01	SDG No.:	P4471
Lab Sample ID:	VY1022SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019972.D	1		10/22/24 11:38	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.2		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.3		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.9		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	20.4		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.3		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.8		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	56.1		70 (54) - 130 (147)	112%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (58) - 130 (134)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (29) - 130 (146)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	7.707			
540-36-3	1,4-Difluorobenzene	399000	8.609			
3114-55-4	Chlorobenzene-d5	345000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	163000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1022SBSD01		SDG No.:	P4471
Lab Sample ID:	VY1022SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	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
VY019972.D	1		10/22/24 11:38	VY102224

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_Y\Data\VY102224\
 Data File : VY019972.D
 Acq On : 22 Oct 2024 11:38
 Operator : SY/MD
 Sample : VY1022SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1022SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/23/2024
 Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:25:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	222995	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	399190	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	345246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	163027	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	156088	56.848	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.700%			
35) Dibromofluoromethane	7.628	113	147654	56.052	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.100%			
50) Toluene-d8	10.103	98	518648	53.316	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 106.640%			
62) 4-Bromofluorobenzene	12.401	95	187461	53.333	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 106.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	36062	17.372	ug/l	95
3) Chloromethane	2.068	50	49606	18.360	ug/l	95
4) Vinyl Chloride	2.202	62	55821	18.775	ug/l	95
5) Bromomethane	2.592	94	38520	20.469	ug/l	97
6) Chloroethane	2.732	64	40229	20.141	ug/l	96
7) Trichlorofluoromethane	3.055	101	87783	19.842	ug/l	97
8) Diethyl Ether	3.458	74	27366	20.353	ug/l	73
9) 1,1,2-Trichlorotrifluo...	3.811	101	51895	20.167	ug/l	89
10) Methyl Iodide	4.007	142	42219	16.222	ug/l #	87
11) Tert butyl alcohol	4.866	59	28518	119.003	ug/l #	88
12) 1,1-Dichloroethene	3.793	96	42356	17.705	ug/l #	77
13) Acrolein	3.653	56	17583	87.150	ug/l	99
14) Allyl chloride	4.384	41	84995	19.691	ug/l #	90
15) Acrylonitrile	5.061	53	70363	114.412	ug/l	97
16) Acetone	3.866	43	83428	116.722	ug/l #	80
17) Carbon Disulfide	4.110	76	84222	13.135	ug/l	97
18) Methyl Acetate	4.384	43	34553	22.441	ug/l #	86
19) Methyl tert-butyl Ether	5.110	73	147148	21.410	ug/l	98
20) Methylene Chloride	4.616	84	56646	20.981	ug/l #	78
21) trans-1,2-Dichloroethene	5.110	96	48352	18.570	ug/l #	78
22) Diisopropyl ether	6.018	45	214474	22.812	ug/l #	89
23) Vinyl Acetate	5.957	43	590341	109.526	ug/l #	91
24) 1,1-Dichloroethane	5.915	63	115574	22.114	ug/l	99
25) 2-Butanone	6.896	43	112576	117.668	ug/l #	85
26) 2,2-Dichloropropane	6.884	77	92797	19.937	ug/l	94
27) cis-1,2-Dichloroethene	6.896	96	67380	20.941	ug/l	84
28) Bromochloromethane	7.238	49	51979	22.596	ug/l #	74
29) Tetrahydrofuran	7.262	42	61967	113.437	ug/l #	81
30) Chloroform	7.421	83	119791	22.485	ug/l	96
31) Cyclohexane	7.695	56	79144	17.251	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	95901	20.540	ug/l #	94
36) 1,1-Dichloropropene	7.835	75	71708	18.895	ug/l	94
37) Ethyl Acetate	6.982	43	44595	22.535	ug/l	97
38) Carbon Tetrachloride	7.817	117	76115	18.709	ug/l	98
39) Methylcyclohexane	9.109	83	83024	17.363	ug/l #	89
40) Benzene	8.079	78	232333	20.229	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019972.D
 Acq On : 22 Oct 2024 11:38
 Operator : SY/MD
 Sample : VY1022SBSD01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1022SBSD01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/23/2024
 Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:25:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	21915m	20.462	ug/l	
42) 1,2-Dichloroethane	8.158	62	70838	21.468	ug/l	95
43) Isopropyl Acetate	8.195	43	88186	21.851	ug/l #	88
44) Trichloroethene	8.865	130	53833	19.352	ug/l	93
45) 1,2-Dichloropropane	9.140	63	62406	21.708	ug/l	95
46) Dibromomethane	9.231	93	33185	21.128	ug/l	88
47) Bromodichloromethane	9.420	83	90748	21.768	ug/l #	93
48) Methyl methacrylate	9.219	41	38855	21.887	ug/l #	81
49) 1,4-Dioxane	9.231	88	7666	436.089	ug/l #	92
51) 4-Methyl-2-Pentanone	9.999	43	236937	115.102	ug/l	87
52) Toluene	10.170	92	147740	20.607	ug/l	96
53) t-1,3-Dichloropropene	10.390	75	75805	20.209	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	90917	20.541	ug/l #	83
55) 1,1,2-Trichloroethane	10.572	97	45713	22.091	ug/l	97
56) Ethyl methacrylate	10.438	69	62657	21.102	ug/l #	73
57) 1,3-Dichloropropane	10.713	76	79830	21.967	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	140702	101.789	ug/l	92
59) 2-Hexanone	10.761	43	168776	114.795	ug/l	85
60) Dibromochloromethane	10.908	129	56246	21.177	ug/l	100
61) 1,2-Dibromoethane	11.011	107	38498	20.588	ug/l	98
64) Tetrachloroethene	10.646	164	44825	18.254	ug/l	93
65) Chlorobenzene	11.438	112	159172	20.157	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	57723	21.605	ug/l	96
67) Ethyl Benzene	11.517	91	286431	19.968	ug/l	100
68) m/p-Xylenes	11.627	106	206259	38.933	ug/l	90
69) o-Xylene	11.950	106	100341	19.713	ug/l	90
70) Styrene	11.969	104	175410	20.426	ug/l	95
71) Bromoform	12.127	173	28873	20.187	ug/l #	100
73) Isopropylbenzene	12.249	105	276863	20.190	ug/l	97
74) N-amyl acetate	12.066	43	77748	21.407	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.505	83	56863	23.337	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	35412m	11.088	ug/l	
77) Bromobenzene	12.529	156	58372	20.060	ug/l	82
78) n-propylbenzene	12.590	91	343357	20.722	ug/l	96
79) 2-Chlorotoluene	12.676	91	196135	20.648	ug/l	93
80) 1,3,5-Trimethylbenzene	12.731	105	222638	20.104	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.298	75	15335	19.381	ug/l #	78
82) 4-Chlorotoluene	12.773	91	200305	20.623	ug/l	94
83) tert-Butylbenzene	12.993	119	203727	20.535	ug/l	93
84) 1,2,4-Trimethylbenzene	13.041	105	222492	20.264	ug/l	96
85) sec-Butylbenzene	13.169	105	308477	20.811	ug/l	96
86) p-Isopropyltoluene	13.291	119	243006	20.190	ug/l	95
87) 1,3-Dichlorobenzene	13.285	146	119217	20.287	ug/l	96
88) 1,4-Dichlorobenzene	13.365	146	118139	20.464	ug/l	96
89) n-Butylbenzene	13.615	91	244627	20.814	ug/l	97
90) Hexachloroethane	13.877	117	48467	20.680	ug/l	87
91) 1,2-Dichlorobenzene	13.657	146	106590	20.643	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.267	75	8487	21.825	ug/l	69
93) 1,2,4-Trichlorobenzene	14.919	180	56103	19.377	ug/l	98
94) Hexachlorobutadiene	15.017	225	31492	19.564	ug/l	99
95) Naphthalene	15.139	128	106373	19.480	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	46528	19.011	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019972.D
Acq On : 22 Oct 2024 11:38
Operator : SY/MD
Sample : VY1022SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:25:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

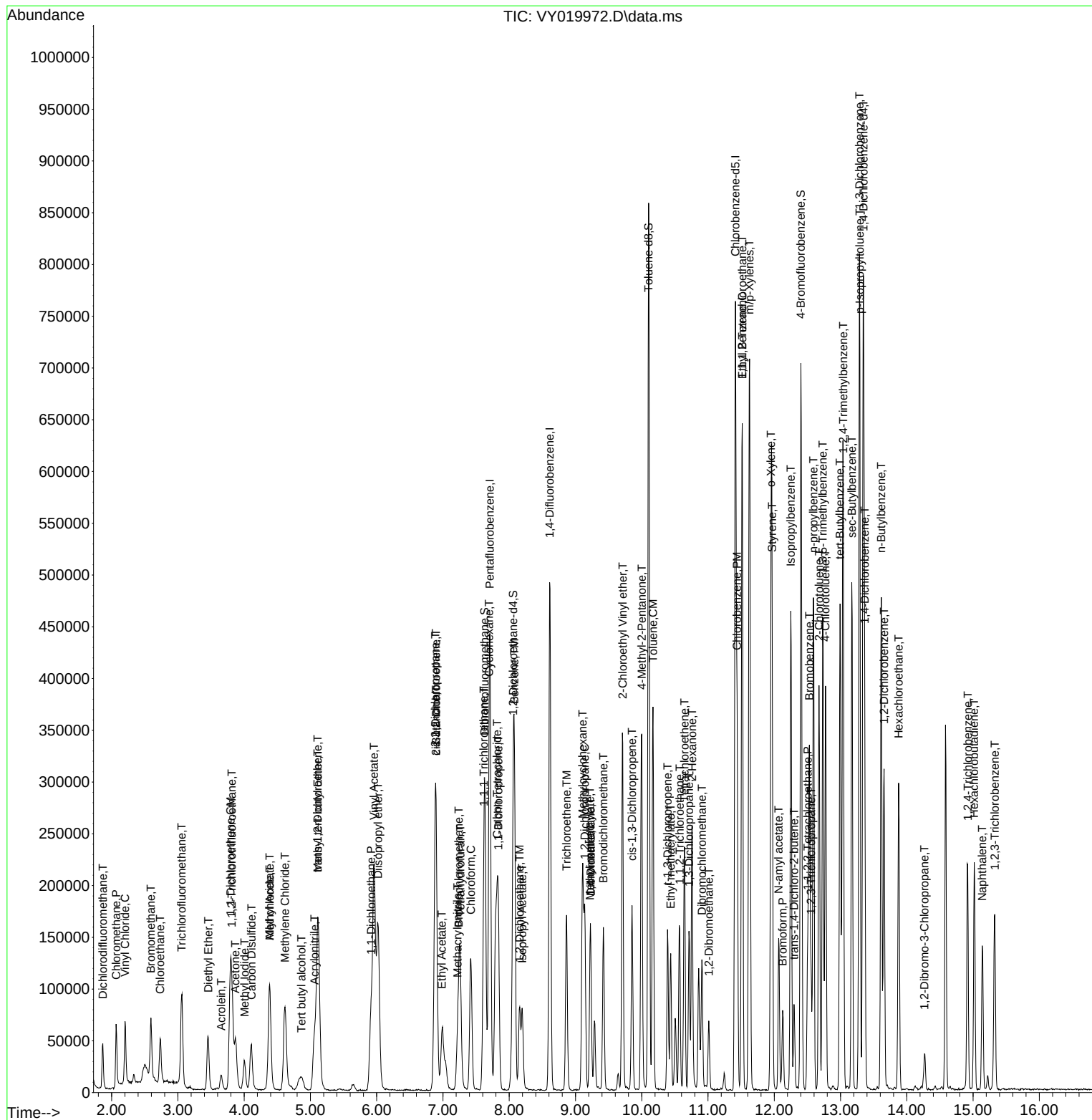
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019972.D
Acq On    : 22 Oct 2024  11:38
Operator  : SY/MD
Sample    : VY1022SBS01
Misc      : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Quant Time: Oct 23 01:25:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084213.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:48 AM	MMDadoda	10/1/2024 5:34:17 PM	Peak Integrated by Software
VSTDICCC050	VN084214.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:52 AM	MMDadoda	10/1/2024 5:34:19 PM	Peak Integrated by Software
VSTDICC020	VN084215.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:57 AM	MMDadoda	10/1/2024 5:34:21 PM	Peak Integrated by Software
VSTDICC010	VN084216.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:06 AM	MMDadoda	10/1/2024 5:34:22 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	trans-1,2-Dichloroethene	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Vinyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,4-Dichlorobenzene	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Allyl chloride	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn093024

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VN084218.D	Vinyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICV050	VN084220.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:01 AM	MMDadoda	10/1/2024 5:34:27 PM	Peak Integrated by Software
VSTDCCC050	VN084229.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:17 AM	MMDadoda	10/1/2024 5:34:32 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn102124

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084428.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:28 AM	MMDadoda	10/22/2024 3:37:06 PM	Peak Integrated by Software
VN1021WBS01	VN084433.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:37 AM	MMDadoda	10/22/2024 3:37:07 PM	Peak Integrated by Software
VN1021WBSD0 1	VN084434.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:41 AM	MMDadoda	10/22/2024 3:37:09 PM	Peak Integrated by Software
VSTDCCC050	VN084448.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:59 AM	MMDadoda	10/22/2024 3:37:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY100924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY019827.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:35 AM	MMDadoda	10/10/2024 10:09:23 PM	Peak Integrated by Software
VSTDIC010	VY019828.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:39 AM	MMDadoda	10/10/2024 10:09:24 PM	Peak Integrated by Software
VSTDIC020	VY019829.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:24 AM	MMDadoda	10/10/2024 10:09:26 PM	Peak Integrated by Software
VSTDICCC050	VY019830.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:44 AM	MMDadoda	10/10/2024 10:09:28 PM	Peak Integrated by Software
VSTDIC100	VY019831.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:48 AM	MMDadoda	10/10/2024 10:09:30 PM	Peak Integrated by Software
VSTDIC150	VY019832.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:51 AM	MMDadoda	10/10/2024 10:09:32 PM	Peak Integrated by Software
VSTDICV050	VY019834.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:56 AM	MMDadoda	10/10/2024 10:09:33 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	Methacrylonitrile	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY102224

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019969.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:52:55 AM	MMDadoda	10/23/2024 1:02:18 PM	Peak Integrated by Software
VY1022SBS01	VY019971.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:52:58 AM	MMDadoda	10/23/2024 1:02:19 PM	Peak Integrated by Software
VY1022SBS01	VY019971.D	Tert butyl alcohol	Romaben	10/23/2024 10:52:58 AM	MMDadoda	10/23/2024 1:02:19 PM	Peak Integrated by Software
VY1022SBSD0 1	VY019972.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:53:03 AM	MMDadoda	10/23/2024 1:02:21 PM	Peak Integrated by Software
VY1022SBSD0 1	VY019972.D	Methacrylonitrile	Romaben	10/23/2024 10:53:03 AM	MMDadoda	10/23/2024 1:02:21 PM	Peak Integrated by Software
VSTDCCC050	VY019983.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:53:10 AM	MMDadoda	10/23/2024 1:02:24 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VY102324

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019985.D	1,2,3-Trichloropropane	MMDadoda	10/24/2024 2:47:23 PM	SAM	10/24/2024 2:50:07 PM	Peak Integrated by Software
VY1023SBS01	VY019987.D	1,2,3-Trichloropropane	MMDadoda	10/24/2024 2:47:23 PM	SAM	10/24/2024 2:50:07 PM	Peak Integrated by Software
VSTDCCC050	VY019999.D	1,2,3-Trichloropropane	MMDadoda	10/24/2024 2:47:26 PM	SAM	10/24/2024 2:50:10 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM
SubDirectory	VN093024	HP Acquire Method	HP Processing Method 82N093024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130570		
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586		
CCC	VP130571,VP130572		
Internal Standard/PEM			
ICV/I.BLK	VP130587		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084211.D	30 Sep 2024 09:24	JC\MD	Ok
2	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	JC\MD	Not Ok
3	VSTDICC100	VN084213.D	30 Sep 2024 12:25	JC\MD	Ok,M
4	VSTDICCC050	VN084214.D	30 Sep 2024 12:49	JC\MD	Ok,M
5	VSTDICC020	VN084215.D	30 Sep 2024 13:13	JC\MD	Ok,M
6	VSTDICC010	VN084216.D	30 Sep 2024 13:37	JC\MD	Ok,M
7	VSTDICC005	VN084217.D	30 Sep 2024 14:00	JC\MD	Ok,M
8	VSTDICC001	VN084218.D	30 Sep 2024 14:48	JC\MD	Ok,M
9	IBLK	VN084219.D	30 Sep 2024 15:12	JC\MD	Ok
10	VSTDICV050	VN084220.D	30 Sep 2024 15:36	JC\MD	Ok,M
11	VN0930MBL01	VN084221.D	30 Sep 2024 16:11	JC\MD	Ok
12	VN0930WBL01	VN084222.D	30 Sep 2024 16:35	JC\MD	Ok
13	VN0930WBS01	VN084223.D	30 Sep 2024 17:42	JC\MD	Ok,M
14	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06	JC\MD	Ok,M
15	P4116-24	VN084225.D	30 Sep 2024 18:30	JC\MD	Dilution
16	P4116-25	VN084226.D	30 Sep 2024 18:54	JC\MD	Dilution
17	P4116-26	VN084227.D	30 Sep 2024 19:18	JC\MD	Dilution
18	P4116-27	VN084228.D	30 Sep 2024 19:42	JC\MD	Dilution
19	VSTDCCC050	VN084229.D	30 Sep 2024 20:06	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM
Supervise By	Maresh Dadoda	Supervise On	10/22/2024 3:37:17 PM
SubDirectory	VN102124	HP Acquire Method	HP Processing Method 82N093024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130983		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130986,VP130987		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084427.D	21 Oct 2024 11:14	JC\MD	Ok
2	VSTDCCC050	VN084428.D	21 Oct 2024 11:38	JC\MD	Ok,M
3	VN1021MBL01	VN084429.D	21 Oct 2024 12:12	JC\MD	Ok
4	VN1021WBL01	VN084430.D	21 Oct 2024 12:36	JC\MD	Ok
5	VN1021MBS01	VN084431.D	21 Oct 2024 13:00	JC\MD	Not Ok
6	P4417-04	VN084432.D	21 Oct 2024 13:24	JC\MD	Ok
7	VN1021WBS01	VN084433.D	21 Oct 2024 13:48	JC\MD	Ok,M
8	VN1021WBSD01	VN084434.D	21 Oct 2024 14:22	JC\MD	Ok,M
9	P4438-03	VN084435.D	21 Oct 2024 14:53	JC\MD	Ok
10	P4438-01	VN084436.D	21 Oct 2024 15:17	JC\MD	Ok
11	P4440-02	VN084437.D	21 Oct 2024 15:41	JC\MD	Ok
12	P4438-02	VN084438.D	21 Oct 2024 16:05	JC\MD	Ok
13	P4438-04	VN084439.D	21 Oct 2024 16:29	JC\MD	Ok
14	P4438-05	VN084440.D	21 Oct 2024 16:53	JC\MD	Ok
15	P4438-06	VN084441.D	21 Oct 2024 17:17	JC\MD	Ok
16	P4438-07	VN084442.D	21 Oct 2024 17:40	JC\MD	Ok
17	P4440-01	VN084443.D	21 Oct 2024 18:04	JC\MD	Ok
18	P4471-03	VN084444.D	21 Oct 2024 18:28	JC\MD	Ok
19	P4460-05	VN084445.D	21 Oct 2024 18:52	JC\MD	Ok
20	P4460-06	VN084446.D	21 Oct 2024 19:16	JC\MD	Ok
21	VN1021MBS02	VN084447.D	21 Oct 2024 19:40	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM
Supervise By	Mahesh Dadoda	Supervise On	10/22/2024 3:37:17 PM
SubDirectory	VN102124	HP Acquire Method	HP Processing Method 82N093024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130983		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130986,VP130987		

22	VSTDCCC050	VN084448.D	21 Oct 2024 20:04	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM		
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP130736			
Initial Calibration Stds		VP130737,VP130738,VP130739,VP130740,VP130741,VP130742			
CCC		VP130744,VP130745			
Internal Standard/PEM		VP128297			
ICV/I.BLK		VP130746			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019826.D	09 Oct 2024 09:33	SY/MD	Ok
2	VSTDIC005	VY019827.D	09 Oct 2024 10:18	SY/MD	Ok,M
3	VSTDIC010	VY019828.D	09 Oct 2024 10:41	SY/MD	Ok,M
4	VSTDIC020	VY019829.D	09 Oct 2024 11:04	SY/MD	Ok,M
5	VSTDIC050	VY019830.D	09 Oct 2024 11:26	SY/MD	Ok,M
6	VSTDIC100	VY019831.D	09 Oct 2024 11:49	SY/MD	Ok,M
7	VSTDIC150	VY019832.D	09 Oct 2024 12:11	SY/MD	Ok,M
8	VIBLK	VY019833.D	09 Oct 2024 12:35	SY/MD	Ok
9	VSTDICV050	VY019834.D	09 Oct 2024 15:25	SY/MD	Ok,M
10	VY1009SBL01	VY019835.D	09 Oct 2024 16:11	SY/MD	Ok
11	VY1009SBS01	VY019836.D	09 Oct 2024 16:41	SY/MD	Ok,M
12	VY1009SBS01	VY019837.D	09 Oct 2024 17:04	SY/MD	Ok,M
13	P4343-01	VY019838.D	09 Oct 2024 17:27	SY/MD	Not Ok
14	P4353-02	VY019839.D	09 Oct 2024 17:51	SY/MD	Ok
15	P4359-01	VY019840.D	09 Oct 2024 18:14	SY/MD	Ok
16	P4344-01	VY019841.D	09 Oct 2024 18:38	SY/MD	Ok
17	VSTDIC050	VY019842.D	09 Oct 2024 19:00	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY102224

Review By	Maresh Dadoda	Review On	10/23/2024 1:02:15 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 6:36:46 AM
SubDirectory	VY102224	HP Acquire Method	HP Processing Method 82y100924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131009		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131010,VP131011 VP128297		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019968.D	22 Oct 2024 08:49	SY/MD	Ok
2	VSTDCCC050	VY019969.D	22 Oct 2024 10:01	SY/MD	Ok,M
3	VY1022SBL01	VY019970.D	22 Oct 2024 10:36	SY/MD	Ok
4	VY1022SBS01	VY019971.D	22 Oct 2024 11:16	SY/MD	Ok,M
5	VY1022SBSD01	VY019972.D	22 Oct 2024 11:38	SY/MD	Ok,M
6	P4460-03	VY019973.D	22 Oct 2024 12:02	SY/MD	Ok,M
7	P4467-03	VY019974.D	22 Oct 2024 12:26	SY/MD	Ok
8	P4460-02	VY019975.D	22 Oct 2024 12:49	SY/MD	Ok
9	P4472-06	VY019976.D	22 Oct 2024 13:13	SY/MD	Ok
10	P4472-02	VY019977.D	22 Oct 2024 13:36	SY/MD	Ok
11	VIBLK	VY019978.D	22 Oct 2024 13:59	SY/MD	Ok
12	P4471-01	VY019979.D	22 Oct 2024 14:23	SY/MD	Ok
13	P4471-02	VY019980.D	22 Oct 2024 14:46	SY/MD	ReRun
14	P4470-01	VY019981.D	22 Oct 2024 15:58	SY/MD	Ok
15	P4474-01	VY019982.D	22 Oct 2024 16:21	SY/MD	ReRun
16	VSTDCCC050	VY019983.D	22 Oct 2024 16:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY102324

Review By	Mahesh Dadoda	Review On	10/24/2024 2:47:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 2:50:12 PM		
SubDirectory	VY102324	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131048			
CCC		VP131049,VP131050			
Internal Standard/PEM		VP128297			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019984.D	23 Oct 2024 08:51	SY/MD	Ok
2	VSTDCCC050	VY019985.D	23 Oct 2024 10:58	SY/MD	Ok,M
3	VY1023SBL01	VY019986.D	23 Oct 2024 11:35	SY/MD	Ok
4	VY1023SBS01	VY019987.D	23 Oct 2024 12:20	SY/MD	Ok,M
5	VY1023SBS01	VY019988.D	23 Oct 2024 12:43	SY/MD	Ok,M
6	P4487-07	VY019989.D	23 Oct 2024 13:12	SY/MD	Ok
7	P4487-05	VY019990.D	23 Oct 2024 13:35	SY/MD	Ok
8	P4487-03	VY019991.D	23 Oct 2024 13:59	SY/MD	Ok
9	P4487-01	VY019992.D	23 Oct 2024 14:22	SY/MD	ReRun
10	P4471-02	VY019993.D	23 Oct 2024 14:45	SY/MD	Ok
11	P4486-01	VY019994.D	23 Oct 2024 15:09	SY/MD	ReRun
12	P4473-01	VY019995.D	23 Oct 2024 15:32	SY/MD	ReRun
13	P4474-01RE	VY019996.D	23 Oct 2024 15:56	SY/MD	Confirms
14	P4489-01	VY019997.D	23 Oct 2024 16:19	SY/MD	Dilution
15	VIBLK	VY019998.D	23 Oct 2024 16:43	SY/MD	Ok
16	VSTDCCC050	VY019999.D	23 Oct 2024 17:05	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM
SubDirectory	VN093024	HP Acquire Method	HP Processing Method 82N093024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130570		
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586		
CCC	VP130571,VP130572		
Internal Standard/PEM			
ICV/I.BLK	VP130587		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084211.D	30 Sep 2024 09:24		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN084213.D	30 Sep 2024 12:25		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN084214.D	30 Sep 2024 12:49		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN084215.D	30 Sep 2024 13:13		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN084216.D	30 Sep 2024 13:37		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN084217.D	30 Sep 2024 14:00		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN084218.D	30 Sep 2024 14:48		JC\MD	Ok,M
9	IBLK	IBLK	VN084219.D	30 Sep 2024 15:12		JC\MD	Ok
10	VSTDICV050	ICVVN093024	VN084220.D	30 Sep 2024 15:36		JC\MD	Ok,M
11	VN0930MBL01	VN0930MBL01	VN084221.D	30 Sep 2024 16:11		JC\MD	Ok
12	VN0930WBL01	VN0930WBL01	VN084222.D	30 Sep 2024 16:35		JC\MD	Ok
13	VN0930WBS01	VN0930WBS01	VN084223.D	30 Sep 2024 17:42		JC\MD	Ok,M
14	VN0930WBSD01	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06		JC\MD	Ok,M
15	P4116-24	RE132D5-20240918	VN084225.D	30 Sep 2024 18:30	vial A pH<2 Need 2x	JC\MD	Dilution
16	P4116-25	RE132D6-20240918	VN084226.D	30 Sep 2024 18:54	vial A pH<2 Need 40X	JC\MD	Dilution
17	P4116-26	RE132D7-20240918	VN084227.D	30 Sep 2024 19:18	vial A pH<2 Need 40X	JC\MD	Dilution
18	P4116-27	DUP05-20240918	VN084228.D	30 Sep 2024 19:42	vial A pH<2 Need 2x	JC\MD	Dilution

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM
SubDirectory	VN093024	HP Acquire Method	HP Processing Method 82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN084229.D	30 Sep 2024 20:06		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM
Supervise By	Maresh Dadoda	Supervise On	10/22/2024 3:37:17 PM
SubDirectory	VN102124	HP Acquire Method	HP Processing Method 82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP130983
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130986,VP130987

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084427.D	21 Oct 2024 11:14		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084428.D	21 Oct 2024 11:38	V13516	JC\MD	Ok,M
3	VN1021MBL01	VN1021MBL01	VN084429.D	21 Oct 2024 12:12		JC\MD	Ok
4	VN1021WBL01	VN1021WBL01	VN084430.D	21 Oct 2024 12:36		JC\MD	Ok
5	VN1021MBS01	VN1021MBS01	VN084431.D	21 Oct 2024 13:00	Recovery failed	JC\MD	Not Ok
6	P4417-04	HOPPER-B-SOLID	VN084432.D	21 Oct 2024 13:24		JC\MD	Ok
7	VN1021WBS01	VN1021WBS01	VN084433.D	21 Oct 2024 13:48		JC\MD	Ok,M
8	VN1021WBSD01	VN1021WBSD01	VN084434.D	21 Oct 2024 14:22		JC\MD	Ok,M
9	P4438-03	VPB190-HYD-2024101	VN084435.D	21 Oct 2024 14:53	vial B pH<2	JC\MD	Ok
10	P4438-01	BP-VPB-190-TB-20241	VN084436.D	21 Oct 2024 15:17	vial B pH<2 TB	JC\MD	Ok
11	P4440-02	BPOW6-11-TB-202410	VN084437.D	21 Oct 2024 15:41	vial B pH<2 TB	JC\MD	Ok
12	P4438-02	BP-VPB-190-EB-20241	VN084438.D	21 Oct 2024 16:05	vial B pH<2 EB	JC\MD	Ok
13	P4438-04	BP-VPB-190-GW-58-60	VN084439.D	21 Oct 2024 16:29	vial B pH<2	JC\MD	Ok
14	P4438-05	BP-VPB-190-GW-98-10	VN084440.D	21 Oct 2024 16:53	vial B pH<2	JC\MD	Ok
15	P4438-06	BP-VPB-190-GW-158-1	VN084441.D	21 Oct 2024 17:17	vial B pH<2	JC\MD	Ok
16	P4438-07	BP-VPB-190-GW-198-2	VN084442.D	21 Oct 2024 17:40	vial B pH<2	JC\MD	Ok
17	P4440-01	BPOW6-11-HYD-20241	VN084443.D	21 Oct 2024 18:04	vial B pH<2	JC\MD	Ok
18	P4471-03	TB100824	VN084444.D	21 Oct 2024 18:28	vial A pH<2 TB	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM
Supervise By	Maresh Dadoda	Supervise On	10/22/2024 3:37:17 PM
SubDirectory	VN102124	HP Acquire Method	HP Processing Method 82N093024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130983		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130986,VP130987		

19	P4460-05	TB-10182024	VN084445.D	21 Oct 2024 18:52	vial A pH<2 TB	JC\MD	Ok
20	P4460-06	WB-303-SW	VN084446.D	21 Oct 2024 19:16	vial A pH<2	JC\MD	Ok
21	VN1021MBS02	VN1021MBS02	VN084447.D	21 Oct 2024 19:40		JC\MD	Ok,M
22	VSTDCCC050	VSTDCCC050EC	VN084448.D	21 Oct 2024 20:04		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130736
Initial Calibration Stds	VP130737,VP130738,VP130739,VP130740,VP130741,VP130742
CCC	VP130744,VP130745
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130746
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019826.D	09 Oct 2024 09:33		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY019827.D	09 Oct 2024 10:18		SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY019828.D	09 Oct 2024 10:41		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY019829.D	09 Oct 2024 11:04		SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY019830.D	09 Oct 2024 11:26	Comp. #11 is on Linear Regression	SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY019831.D	09 Oct 2024 11:49		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY019832.D	09 Oct 2024 12:11		SY/MD	Ok,M
8	VIBLK	VIBLK	VY019833.D	09 Oct 2024 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY100924	VY019834.D	09 Oct 2024 15:25		SY/MD	Ok,M
10	VY1009SBL01	VY1009SBL01	VY019835.D	09 Oct 2024 16:11		SY/MD	Ok
11	VY1009SBS01	VY1009SBS01	VY019836.D	09 Oct 2024 16:41		SY/MD	Ok,M
12	VY1009SBS01	VY1009SBS01	VY019837.D	09 Oct 2024 17:04		SY/MD	Ok,M
13	P4343-01	EO-03-100724	VY019838.D	09 Oct 2024 17:27	vial-B Not purged	SY/MD	Not Ok
14	P4353-02	CF-400-VOC-43	VY019839.D	09 Oct 2024 17:51	vial-A	SY/MD	Ok
15	P4359-01	EXCAVATION-SOIL	VY019840.D	09 Oct 2024 18:14	vial-A	SY/MD	Ok
16	P4344-01	TR-05-100724	VY019841.D	09 Oct 2024 18:38	vial-B	SY/MD	Ok
17	VSTDIC050	VSTDIC050EC	VY019842.D	09 Oct 2024 19:00		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY102224

Review By	Maresh Dadoda	Review On	10/23/2024 1:02:15 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 6:36:46 AM
SubDirectory	VY102224	HP Acquire Method	HP Processing Method 82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131009
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131010,VP131011 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019968.D	22 Oct 2024 08:49		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019969.D	22 Oct 2024 10:01		SY/MD	Ok,M
3	VY1022SBL01	VY1022SBL01	VY019970.D	22 Oct 2024 10:36		SY/MD	Ok
4	VY1022SBS01	VY1022SBS01	VY019971.D	22 Oct 2024 11:16		SY/MD	Ok,M
5	VY1022SBSD01	VY1022SBSD01	VY019972.D	22 Oct 2024 11:38		SY/MD	Ok,M
6	P4460-03	WB-303-BOT	VY019973.D	22 Oct 2024 12:02	vial-B	SY/MD	Ok,M
7	P4467-03	TP-1-VOC	VY019974.D	22 Oct 2024 12:26	vial-B	SY/MD	Ok
8	P4460-02	WB-303-TOP	VY019975.D	22 Oct 2024 12:49	vial-B	SY/MD	Ok
9	P4472-06	BP-F-6-VOC	VY019976.D	22 Oct 2024 13:13	vial-B	SY/MD	Ok
10	P4472-02	BP-F-28-VOC	VY019977.D	22 Oct 2024 13:36	vial-B	SY/MD	Ok
11	VIBLK	VIBLK	VY019978.D	22 Oct 2024 13:59	Clean up	SY/MD	Ok
12	P4471-01	B-180-SB01	VY019979.D	22 Oct 2024 14:23	vial-A	SY/MD	Ok
13	P4471-02	B-180-SB02	VY019980.D	22 Oct 2024 14:46	vial-A Internal standard fail	SY/MD	ReRun
14	P4470-01	CL-01-102124	VY019981.D	22 Oct 2024 15:58	vial-A	SY/MD	Ok
15	P4474-01	TS-2	VY019982.D	22 Oct 2024 16:21	vial-A Internal standard fail	SY/MD	ReRun
16	VSTDCCC050	VSTDCCC050EC	VY019983.D	22 Oct 2024 16:44		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY102324

Review By	Maresh Dadoda	Review On	10/24/2024 2:47:28 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 2:50:12 PM
SubDirectory	VY102324	HP Acquire Method	MSVOA_Y HP Processing Method 82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131048
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131049,VP131050 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019984.D	23 Oct 2024 08:51		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019985.D	23 Oct 2024 10:58		SY/MD	Ok,M
3	VY1023SBL01	VY1023SBL01	VY019986.D	23 Oct 2024 11:35		SY/MD	Ok
4	VY1023SBS01	VY1023SBS01	VY019987.D	23 Oct 2024 12:20		SY/MD	Ok,M
5	VY1023SBSD01	VY1023SBSD01	VY019988.D	23 Oct 2024 12:43		SY/MD	Ok,M
6	P4487-07	BP-B27-VOC	VY019989.D	23 Oct 2024 13:12	vial-A	SY/MD	Ok
7	P4487-05	BP-F27	VY019990.D	23 Oct 2024 13:35	vial-A	SY/MD	Ok
8	P4487-03	BP-B5-VOC	VY019991.D	23 Oct 2024 13:59	vial-A	SY/MD	Ok
9	P4487-01	BP-B5	VY019992.D	23 Oct 2024 14:22	Internal Standard Fail vial-A	SY/MD	ReRun
10	P4471-02	B-180-SB02	VY019993.D	23 Oct 2024 14:45	vial-B	SY/MD	Ok
11	P4486-01	EO-03-102224	VY019994.D	23 Oct 2024 15:09	Internal Standard Fail vial-A	SY/MD	ReRun
12	P4473-01	TS-1	VY019995.D	23 Oct 2024 15:32	Internal Standard Fail vial-A	SY/MD	ReRun
13	P4474-01RE	TS-2RE	VY019996.D	23 Oct 2024 15:56	Internal Standard Fail vial-B	SY/MD	Confirms
14	P4489-01	RT-2675	VY019997.D	23 Oct 2024 16:19	vial- A Internal Standard Fail; Need MEOH	SY/MD	Dilution
15	VIBLK	VIBLK	VY019998.D	23 Oct 2024 16:43		SY/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VY019999.D	23 Oct 2024 17:05		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/23/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 10/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 10/22/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133030

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
P4416-01	A0BD7	1	1.15	8.81	9.96	8.6	84.6	
P4416-02	A0BD8	2	1.12	8.61	9.73	7.33	72.1	
P4416-03	A0BD8MS	3	1.12	8.61	9.73	7.33	72.1	
P4416-04	A0BD8MSD	4	1.12	8.61	9.73	7.33	72.1	
P4467-01	TP-1	5	1.15	8.84	9.99	9.17	90.7	
P4467-02	TP-1-EPH	6	1.17	8.60	9.77	8.89	89.8	
P4467-03	TP-1-VOC	7	1.15	8.57	9.72	8.87	90.1	
P4468-01	ETGI-331	8	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4468-03	ETGI-329	9	1.15	8.82	9.97	9.35	93.0	
P4468-05	ETGI-345	10	1.12	8.75	9.87	9.11	91.3	
P4469-01	16-PIPE	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4469-02	21-PIPE	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4469-03	32-PIPE	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4469-04	34-PIPE	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4470-01	CL-01-102124	15	1.12	8.75	9.87	9.39	94.5	
P4470-02	CL-01-102124-E2	16	1.12	8.76	9.88	9.36	94.1	
P4471-01	B-180-SB01	17	1.18	8.59	9.77	8.29	82.8	
P4471-02	B-180-SB02	18	1.16	8.80	9.96	5.49	49.2	
P4472-01	BP-F-28	19	1.16	8.46	9.62	8.75	89.7	
P4472-02	BP-F-28-VOC	20	1.18	8.45	9.63	8.92	91.6	
P4472-03	BP-F-28-EPH	21	1.15	8.64	9.79	8.94	90.2	
P4472-05	BP-F-6	22	1.18	8.58	9.76	9.00	91.1	
P4472-06	BP-F-6-VOC	23	1.15	8.83	9.98	9.31	92.4	
P4472-07	BP-F-6-EPH	24	1.16	8.83	9.99	9.35	92.8	

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

WORKLIST(Hardcopy Internal Chain)

133030

WorkList Name : %1-102124 WorkList ID : 184616 Department : Wet-Chemistry Date : 10-21-2024 08:15:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4416-01	A0BD7	Solid	Percent Solids	Cool 4 deg C	USEP04	Q11	10/09/2024	Chemtech -SO
P4416-02	A0BD8	Solid	Percent Solids	Cool 4 deg C	USEP04	Q11	10/15/2024	Chemtech -SO
P4416-03	A0BD8MS	Solid	Percent Solids	Cool 4 deg C	USEP04	Q11	10/15/2024	Chemtech -SO
P4416-04	A0BD8MSD	Solid	Percent Solids	Cool 4 deg C	USEP04	Q11	10/15/2024	Chemtech -SO
P4467-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K41	10/21/2024	Chemtech -SO
P4467-02	TP-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K41	10/21/2024	Chemtech -SO
P4467-03	TP-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K41	10/21/2024	Chemtech -SO
P4468-01	ETGI-331	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4468-03	ETGI-329	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4468-05	ETGI-345	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4469-01	16-PIPE	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/21/2024	Chemtech -SO
P4469-02	21-PIPE	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/21/2024	Chemtech -SO
P4469-03	32-PIPE	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/21/2024	Chemtech -SO
P4469-04	34-PIPE	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/21/2024	Chemtech -SO
P4470-01	CL-01-102124	Solid	Percent Solids	Cool 4 deg C	PSEG05	K51	10/21/2024	Chemtech -SO
P4470-02	CL-01-102124-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K51	10/21/2024	Chemtech -SO
P4471-01	B-180-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	J61	10/19/2024	Chemtech -SO
P4471-02	B-180-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	J61	10/20/2024	Chemtech -SO
P4472-01	BP-F-28	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4472-02	BP-F-28-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4472-03	BP-F-28-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO

Date/Time 10/21/24 15:35 Date/Time 10/21/24 17:10
 Raw Sample Received by: 1060C Raw Sample Received by: CL SW
 Raw Sample Relinquished by: CL SW Raw Sample Relinquished by: CL SW

WORKLIST(Hardcopy Internal Chain)

8133030

WorkList Name : %1-102124 WorkList ID : 184616 Department : Wet-Chemistry Date : 10-21-2024 08:15:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4472-05	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4472-06	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO
P4472-07	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/21/2024	Chemtech -SO

Date/Time 10/21/24 15:35
Raw Sample Received by: SL CDC
Raw Sample Relinquished by: SL CDC

Date/Time 10/21/24 17:10
Raw Sample Received by: SL CDC
Raw Sample Relinquished by: SL CDC



SHIPPING DOCUMENTS

CLIENT INFORMATION				CLIENT PROJECT INFORMATION				CLIENT BILLING INFORMATION									
REPORT TO BE SENT TO: COMPANY: GANNETT FLEMING ADDRESS: 1010 ADAMS AVENUE CITY: AUDUBON STATE: NJ ZIP: 19403 ATTENTION: JOE KRUPANSKY PHONE: 610-301-8342 FAX:				PROJECT NAME: AMTRAK'S REPLACEMENT OF SAWTOOTH BRIDGES PROJECT NO.: 9500000878 LOCATION: KEARNY, NJ PROJECT MANAGER: JOE KRUPANSKY e-mail: QAQC@bemsys.com PHONE: 610-301-8342 FAX:				BILL TO: CHEMTECH PO#: ADDRESS: 284 SHEFFIELD ST CITY: MOUNTAINSIDE STATE: NJ ZIP: 07092 ATTENTION: SAMANTHA BEADLEY PHONE: 908-728-3148 ANALYSIS									
DATA TURNAROUND INFORMATION				DATA DELIVERABLE 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				☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) ☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP ☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B + Raw Data) ☐ Other _____ ☐ EDD FORMAT BEM EDD				1. TCL VOC+10 2. TCL PAH 3. PCBs 4. TAL METALS 5. EPA 6. CR (VI) 7. CR (III) 8. 9.									
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	B-180-SB01	S		✓	10/19/24	200	4	x	x	x	x	x	x	x			5
2.	B-180-SB02	S		✓	10/20/24	1245	4	x	x	x	x	x	x	x			7
3.	TB100824	W			10/08/24	16/08/24	2	x									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																	
RELINQUISHED BY SAMPLER: 1. [Signature]		DATE/TIME: 10/21/24 1240		RECEIVED BY: 1. [Signature]		Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 23.0 °C Comments: JH. Gunt #1											
RELINQUISHED BY SAMPLER: 2.		DATE/TIME:		RECEIVED BY: 2.													
RELINQUISHED BY SAMPLER: 3.		DATE/TIME:		RECEIVED BY: 3.													
Page _____ of _____						CLIENT: ☐ Hand Delivered ☐ Other _____ CHEMTECH: ☐ Picked Up ☐ Field Sampling						Shipment Complete ☐ YES ☐ NO					



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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488