

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042325

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28814	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	176766	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	160412	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	84449	30.399	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%			
60) 4-Bromofluorobenzene	12.847	95	90439	28.685	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.633%			
63) Toluene-d8	10.565	98	265630	30.100	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	41142	20.682	ug/l	95
3) Chloromethane	2.365	50	57712	20.424	ug/l	95
4) Vinyl Chloride	2.518	62	55345	20.449	ug/l	100
5) Bromomethane	2.965	94	29651	20.985	ug/l	98
6) Chloroethane	3.124	64	35793	19.838	ug/l	94
7) Trichlorofluoromethane	3.500	101	63367	19.836	ug/l	98
8) Diethyl Ether	3.965	74	27119	20.111	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	39724	20.227	ug/l	97
10) 1,1-Dichloroethene	4.336	96	39637	19.718	ug/l	98
11) Methyl Iodide	4.588	142	47322	20.120	ug/l	99
12) Methyl Acetate	5.024	43	58243	20.442	ug/l	99
13) Acrolein	4.183	56	12072	81.993	ug/l	100
14) Acrylonitrile	5.718	53	107549	101.422	ug/l	99
15) Acetone	4.430	58	31433	107.574	ug/l	88
16) Carbon Disulfide	4.712	76	109280	20.631	ug/l	99
17) Allyl chloride	5.018	41	65341	20.329	ug/l	98
18) Methylene Chloride	5.283	84	45390	19.828	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	43000	20.070	ug/l	99
20) Diisopropyl ether	6.671	45	151075	19.768	ug/l	98
21) 1,1-Dichloroethane	6.565	63	83455	19.950	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	53300	19.895	ug/l	98
23) tert-Butyl Alcohol	5.512	59	43113	104.953	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	149632	20.147	ug/l	100
25) Chloroform	7.965	83	83891	19.815	ug/l	95
26) Cyclohexane	8.253	56	72784	19.705	ug/l #	98
29) 1,1-Dichloropropene	8.365	75	59993	19.252	ug/l	99
30) 2-Butanone	7.477	43	149457	98.812	ug/l	99
31) 2,2-Dichloropropane	7.482	77	75995	18.971	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	71545	19.213	ug/l	100
33) Carbon Tetrachloride	8.359	117	58859	19.200	ug/l	97
34) Benzene	8.606	78	192366	19.408	ug/l	94
35) Methacrylonitrile	7.777	41	32722	18.965	ug/l	98
36) 1,2-Dichloroethane	8.665	62	62633	19.464	ug/l	99
37) Trichloroethene	9.347	130	47260	19.047	ug/l	92
38) Methylcyclohexane	9.600	83	69133	19.209	ug/l	99
39) 1,2-Dichloropropane	9.618	63	46678	19.063	ug/l	97
40) Dibromomethane	9.706	93	31560	19.273	ug/l	98
41) Bromodichloromethane	9.882	83	67356	19.438	ug/l	99
42) Vinyl Acetate	6.600	43	514738	98.241	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	56564	18.897	ug/l	99
44) Isopropyl Acetate	8.688	43	112514	19.805	ug/l	98
45) 1,4-Dioxane	9.688	88	18241	411.534	ug/l	97
46) Methyl methacrylate	9.676	41	50286	19.190	ug/l	92
47) n-amyl Acetate	12.488	43	90266	18.642	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	74255	19.167	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	78577	19.233	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	44981	19.666	ug/l	98
51) Ethyl methacrylate	10.870	69	74966	18.819	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79190	19.590	ug/l	99
53) Dibromochloromethane	11.353	129	48611	18.927	ug/l	99
54) 1,2-Dibromoethane	11.465	107	44285	19.043	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	184980	98.770	ug/l	99
56) Bromoform	12.576	173	30722	18.434	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	306519	98.743	ug/l	99
59) 2-Hexanone	11.194	43	224318	98.060	ug/l	99
61) Tetrachloroethene	11.100	164	46736	19.102	ug/l	95
62) Toluene	10.629	91	207649	19.339	ug/l	97
64) Chlorobenzene	11.888	112	129646	19.378	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	43109	19.270	ug/l	99
66) Ethyl Benzene	11.959	91	233802	19.345	ug/l	99
67) m/p-Xylenes	12.070	106	177124	38.625	ug/l	99
68) o-Xylene	12.394	106	86250	19.209	ug/l	99
69) Styrene	12.406	104	144708	19.014	ug/l	100
70) Isopropylbenzene	12.694	105	215598	19.236	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	60151	20.382	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	50492m	19.624	ug/l	
73) Bromobenzene	12.976	156	49645	19.266	ug/l	98
74) n-propylbenzene	13.029	91	253908	19.064	ug/l	100
75) 2-Chlorotoluene	13.123	91	159080	19.133	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	177597	19.311	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	24658	18.884	ug/l	95
78) 4-Chlorotoluene	13.217	91	158316	19.044	ug/l	99
79) tert-butylbenzene	13.435	119	151069	19.180	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	179423	19.103	ug/l	99
81) sec-Butylbenzene	13.611	105	214645	19.091	ug/l	100
82) p-Isopropyltoluene	13.723	119	177486	18.866	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	92009	18.889	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	92122	19.142	ug/l	98
85) n-Butylbenzene	14.053	91	157496	18.762	ug/l	99
86) Hexachloroethane	14.329	117	28240	18.358	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	88423	19.078	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11808	19.684	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	42238	19.995	ug/l	98
90) Hexachlorobutadiene	15.494	225	18323	21.534	ug/l	98
91) Naphthalene	15.635	128	154380	20.413	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	42238	19.995	ug/l	98

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

