

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
 Data File : VN088072.D
 Acq On : 20 Oct 2025 08:52
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/21/2025
 Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 05:34:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	63726	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	362466	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	325295	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	161531	32.552	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.500%			
60) 4-Bromofluorobenzene	12.829	95	159804	29.799	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.333%			
63) Toluene-d8	10.547	98	446523	30.809	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	80003	21.918	ug/l	91
3) Chloromethane	2.383	50	82731	19.992	ug/l	97
4) Vinyl Chloride	2.536	62	89098	20.649	ug/l	98
5) Bromomethane	2.983	94	51124	22.034	ug/l	95
6) Chloroethane	3.142	64	62867	22.087	ug/l	94
7) Trichlorofluoromethane	3.512	101	136939	23.338	ug/l	99
8) Diethyl Ether	3.965	74	55914	21.090	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	70080	22.311	ug/l	81
10) 1,1-Dichloroethene	4.336	96	70811	21.134	ug/l	99
11) Methyl Iodide	4.577	142	51497	16.676	ug/l	94
12) Methyl Acetate	5.018	43	116645	21.414	ug/l #	82
13) Acrolein	4.171	56	61550	73.018	ug/l #	2
14) Acrylonitrile	5.706	53	254729	96.903	ug/l	99
15) Acetone	4.418	58	70682	91.815	ug/l	87
16) Carbon Disulfide	4.706	76	206839	19.692	ug/l	95
17) Allyl chloride	5.012	41	127700	20.198	ug/l	98
18) Methylene Chloride	5.259	84	82361	19.340	ug/l	93
19) trans-1,2-Dichloroethene	5.771	96	76196	19.669	ug/l	88
20) Diisopropyl ether	6.653	45	292084	20.292	ug/l	98
21) 1,1-Dichloroethane	6.553	63	154307	20.593	ug/l	95
22) cis-1,2-Dichloroethene	7.477	96	96556	19.911	ug/l	97
23) tert-Butyl Alcohol	5.512	59	96312	91.354	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	286064	19.779	ug/l	99
25) Chloroform	7.947	83	156842	20.283	ug/l	100
26) Cyclohexane	8.241	56	129471	20.854	ug/l #	91
29) 1,1-Dichloropropene	8.353	75	107889	20.766	ug/l	96
30) 2-Butanone	7.471	43	358564	93.573	ug/l	98
31) 2,2-Dichloropropane	7.471	77	144018	21.513	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	136339	21.001	ug/l	98
33) Carbon Tetrachloride	8.341	117	115927	21.318	ug/l	99
34) Benzene	8.588	78	340745	19.772	ug/l	98
35) Methacrylonitrile	7.765	41	77127	19.140	ug/l	97
36) 1,2-Dichloroethane	8.647	62	125450	20.969	ug/l	98
37) Trichloroethene	9.335	130	77911	19.082	ug/l	96
38) Methylcyclohexane	9.582	83	131494	20.494	ug/l	96
39) 1,2-Dichloropropane	9.600	63	85704	19.834	ug/l	98
40) Dibromomethane	9.688	93	62463	19.858	ug/l	93
41) Bromodichloromethane	9.865	83	128973	20.076	ug/l	97
42) Vinyl Acetate	6.588	43	1206232	92.402	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	147783	20.063	ug/l	98
44) Isopropyl Acetate	8.671	43	230525	19.161	ug/l	99
45) 1,4-Dioxane	9.682	88	31429	392.783	ug/l #	95
46) Methyl methacrylate	9.665	41	90825	17.143	ug/l	96
47) n-amyl Acetate	12.576	43	131674m	23.091	ug/l	
48) t-1,3-Dichloropropene	10.818	75	139436	19.520	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	145645	19.546	ug/l	92
50) 1,1,2-Trichloroethane	10.994	97	80339	19.287	ug/l	94
51) Ethyl methacrylate	10.853	69	134305	19.052	ug/l	95
52) 1,3-Dichloropropane	11.141	76	143752	19.780	ug/l	99
53) Dibromochloromethane	11.341	129	98131	19.706	ug/l	97
54) 1,2-Dibromoethane	11.447	107	86411	19.404	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	368632	96.878	ug/l	99
56) Bromoform	12.559	173	61257	18.195	ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	704411	96.812	ug/l	98
59) 2-Hexanone	11.176	43	456860	95.101	ug/l	99
61) Tetrachloroethene	11.082	164	62742	19.047	ug/l	95
62) Toluene	10.606	91	363252	19.686	ug/l	99
64) Chlorobenzene	11.871	112	230771	19.581	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.935	131	79692	19.621	ug/l	98
66) Ethyl Benzene	11.941	91	399110	19.892	ug/l	100
67) m/p-Xylenes	12.047	106	304711	39.395	ug/l	99
68) o-Xylene	12.376	106	145451	18.890	ug/l	93
69) Styrene	12.388	104	245082	19.241	ug/l	98
70) Isopropylbenzene	12.670	105	377646	20.011	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	123484	19.300	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	123985m	20.866	ug/l	
73) Bromobenzene	12.959	156	85045	18.438	ug/l	90
74) n-propylbenzene	13.012	91	465597	20.437	ug/l	98
75) 2-Chlorotoluene	13.106	91	279953	20.097	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	316376	19.736	ug/l	97
77) t-1,4-Dichloro-2-butene	12.718	75	43352	18.307	ug/l	94
78) 4-Chlorotoluene	13.200	91	289399	20.449	ug/l	95
79) tert-butylbenzene	13.417	119	276106	19.868	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	321547	20.037	ug/l	97
81) sec-Butylbenzene	13.594	105	405651	20.761	ug/l	97
82) p-Isopropyltoluene	13.706	119	336823	20.191	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	167629	19.315	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	171003	19.106	ug/l	98
85) n-Butylbenzene	14.035	91	325847	20.996	ug/l	97
86) Hexachloroethane	14.306	117	68161	20.397	ug/l	87
87) 1,2-Dichlorobenzene	14.082	146	159365	18.669	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	27995	19.052	ug/l	90
89) 1,2,4-Trichlorobenzene	15.811	180	89076	17.519	ug/l	98
90) Hexachlorobutadiene	15.476	225	33669	19.026	ug/l	98
91) Naphthalene	15.611	128	335656	18.031	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	89076	17.519	ug/l	98

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

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