

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088317.D
 Acq On : 20 Nov 2025 09:13
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/21/2025
 Supervised By : Semsettin Yesilyurt 11/21/2025

Quant Time: Nov 21 02:54:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	49901	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	246084	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	228625	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	129115	28.326	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.433%		
60) 4-Bromofluorobenzene	12.823	95	109083	28.225	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.067%		
63) Toluene-d8	10.541	98	326012	30.120	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	57778	16.471	ug/l	98
3) Chloromethane	2.383	50	61938	17.126	ug/l	95
4) Vinyl Chloride	2.536	62	61978	16.207	ug/l	96
5) Bromomethane	2.983	94	37266	18.276	ug/l	87
6) Chloroethane	3.142	64	40568	17.163	ug/l	97
7) Trichlorofluoromethane	3.512	101	87660	16.350	ug/l	99
8) Diethyl Ether	3.965	74	32496	16.216	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.377	101	48435m	17.220	ug/l	
10) 1,1-Dichloroethene	4.336	96	46372	16.899	ug/l	96
11) Methyl Iodide	4.589	142	42167	14.440	ug/l	91
12) Methyl Acetate	5.012	43	73881	16.689	ug/l #	87
13) Acrolein	4.183	56	50547	77.607	ug/l	97
14) Acrylonitrile	5.706	53	162680	80.873	ug/l	98
15) Acetone	4.424	58	47921	81.464	ug/l	91
16) Carbon Disulfide	4.712	76	153067	16.540	ug/l	95
17) Allyl chloride	5.018	41	83581	15.674	ug/l	97
18) Methylene Chloride	5.271	84	61697	18.089	ug/l	94
19) trans-1,2-Dichloroethene	5.777	96	52233	16.347	ug/l	98
20) Diisopropyl ether	6.653	45	187205	16.429	ug/l	95
21) 1,1-Dichloroethane	6.553	63	108041	16.830	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	62526	16.836	ug/l	94
23) tert-Butyl Alcohol	5.506	59	49262m	66.601	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	176110	15.918	ug/l	99
25) Chloroform	7.953	83	109207	17.168	ug/l	93
26) Cyclohexane	8.235	56	80122	14.776	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	70055	17.061	ug/l	98
30) 2-Butanone	7.471	43	226819	85.398	ug/l	98
31) 2,2-Dichloropropane	7.471	77	91099	17.988	ug/l	96
32) 1,1,1-Trichloroethane	8.153	97	91550	18.087	ug/l	96
33) Carbon Tetrachloride	8.347	117	76597	17.721	ug/l	97
34) Benzene	8.588	78	225525	18.375	ug/l	99
35) Methacrylonitrile	7.759	41	51139	18.459	ug/l	95
36) 1,2-Dichloroethane	8.647	62	84451	17.681	ug/l	99
37) Trichloroethene	9.335	130	50680	18.222	ug/l	92
38) Methylcyclohexane	9.582	83	70984	15.079	ug/l	96
39) 1,2-Dichloropropane	9.600	63	58884	18.596	ug/l	93
40) Dibromomethane	9.688	93	42498	18.680	ug/l	95
41) Bromodichloromethane	9.865	83	88539	19.332	ug/l	98
42) Vinyl Acetate	6.594	43	768278	86.666	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	94756m	17.731	ug/l	
44) Isopropyl Acetate	8.671	43	145451	17.661	ug/l	99
45) 1,4-Dioxane	9.682	88	16790	338.539	ug/l #	73
46) Methyl methacrylate	9.659	41	64106	16.634	ug/l	95
47) n-amyl Acetate	12.688	43	73393m	17.586	ug/l	
48) t-1,3-Dichloropropene	10.818	75	86639	17.687	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	92225	18.095	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	54708	19.447	ug/l	98
51) Ethyl methacrylate	10.853	69	75216	16.251	ug/l	94
52) 1,3-Dichloropropane	11.141	76	94744	18.493	ug/l	100
53) Dibromochloromethane	11.341	129	62622	19.380	ug/l	99
54) 1,2-Dibromoethane	11.447	107	54745	18.729	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	149711	56.153	ug/l	98
56) Bromoform	12.559	173	38029	18.593	ug/l	100
58) 4-Methyl-2-Pentanone	10.424	43	452392	87.488	ug/l	100
59) 2-Hexanone	11.176	43	300706	87.577	ug/l	99
61) Tetrachloroethene	11.082	164	43256	18.351	ug/l	95
62) Toluene	10.606	91	234271	17.856	ug/l	100
64) Chlorobenzene	11.870	112	146772	18.063	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.935	131	51974	18.688	ug/l	95
66) Ethyl Benzene	11.941	91	240580	16.638	ug/l	98
67) m/p-Xylenes	12.047	106	187264	34.631	ug/l	100
68) o-Xylene	12.376	106	88005	17.252	ug/l	94
69) Styrene	12.394	104	144836	16.717	ug/l	99
70) Isopropylbenzene	12.670	105	217425	16.083	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	83861	19.150	ug/l	97
72) 1,2,3-Trichloropropane	12.970	75	68748m	16.205	ug/l	
73) Bromobenzene	12.959	156	56086	18.377	ug/l	94
74) n-propylbenzene	13.012	91	282261	16.872	ug/l	100
75) 2-Chlorotoluene	13.100	91	171401	16.849	ug/l	98
76) 1,3,5-Trimethylbenzene	13.147	105	190504	16.788	ug/l	100
77) t-1,4-Dichloro-2-butene	12.717	75	19945	13.690	ug/l	95
78) 4-Chlorotoluene	13.200	91	182371	17.691	ug/l	99
79) tert-butylbenzene	13.417	119	159847	16.453	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	188180	16.677	ug/l	99
81) sec-Butylbenzene	13.594	105	226318	15.971	ug/l	99
82) p-Isopropyltoluene	13.706	119	186938	15.965	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	108100	18.230	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	111384	18.548	ug/l	98
85) n-Butylbenzene	14.035	91	182643	16.367	ug/l	98
86) Hexachloroethane	14.306	117	38999	17.395	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	101312	18.101	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	16820	16.341	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	52905	16.844	ug/l	98
90) Hexachlorobutadiene	15.476	225	21924	17.974	ug/l	97
91) Naphthalene	15.617	128	180279	15.864	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	52905	16.844	ug/l	98

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

