

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
 Data File : VN087818.D
 Acq On : 12 Sep 2025 15:51
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/15/2025
 Supervised By : Mahesh Dadoda 09/15/2025

Quant Time: Sep 12 22:53:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	56578m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	289907	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	268486	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	139457	28.855	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.167%		
60) 4-Bromofluorobenzene	12.829	95	124950	28.943	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.467%		
63) Toluene-d8	10.547	98	373110	29.882	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.600%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.142	85	76278	21.692	ug/l	97
3) Chloromethane	2.383	50	69630	18.863	ug/l	96
4) Vinyl Chloride	2.536	62	84219	20.183	ug/l	98
5) Bromomethane	2.983	94	28763	11.750	ug/l #	79
6) Chloroethane	3.136	64	54543	19.125	ug/l #	84
7) Trichlorofluoromethane	3.506	101	129707	21.207	ug/l	98
8) Diethyl Ether	3.959	74	47249	18.294	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	73758	22.264	ug/l	74
10) 1,1-Dichloroethene	4.336	96	68887	20.168	ug/l	94
11) Methyl Iodide	4.583	142	27177	11.241	ug/l	91
12) Methyl Acetate	5.018	43	103109	19.583	ug/l	99
13) Acrolein	4.183	56	76558	81.666	ug/l #	41
14) Acrylonitrile	5.712	53	215160	94.940	ug/l	99
15) Acetone	4.424	58	73630	104.147	ug/l	79
16) Carbon Disulfide	4.706	76	200198	21.348	ug/l #	89
17) Allyl chloride	5.018	41	98783	17.707	ug/l	92
18) Methylene Chloride	5.259	84	77822	20.114	ug/l	89
19) trans-1,2-Dichloroethene	5.777	96	69331	19.903	ug/l	91
20) Diisopropyl ether	6.659	45	244768	19.079	ug/l	96
21) 1,1-Dichloroethane	6.553	63	137810	19.616	ug/l	94
22) cis-1,2-Dichloroethene	7.477	96	83511	19.751	ug/l	96
23) tert-Butyl Alcohol	5.524	59	74695	93.238	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	230593	18.910	ug/l	97
25) Chloroform	7.947	83	146249	19.888	ug/l	96
26) Cyclohexane	8.241	56	117487	21.959	ug/l #	99
29) 1,1-Dichloropropene	8.359	75	98376	20.880	ug/l	100
30) 2-Butanone	7.471	43	327057	100.769	ug/l	97
31) 2,2-Dichloropropane	7.471	77	126523	22.277	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	126924	21.249	ug/l #	73
33) Carbon Tetrachloride	8.347	117	108048	21.694	ug/l	99
34) Benzene	8.588	78	305550	20.066	ug/l #	93
35) Methacrylonitrile	7.765	41	64889	19.114	ug/l	94
36) 1,2-Dichloroethane	8.653	62	113980	19.817	ug/l	100
37) Trichloroethene	9.335	130	69153	20.316	ug/l	99
38) Methylcyclohexane	9.582	83	114763	22.121	ug/l	99
39) 1,2-Dichloropropane	9.606	63	78916	20.235	ug/l	99
40) Dibromomethane	9.688	93	59063	20.350	ug/l	97
41) Bromodichloromethane	9.871	83	116522	19.643	ug/l #	91
42) Vinyl Acetate	6.594	43	992020	91.479	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	125414	18.913	ug/l	98
44) Isopropyl Acetate	8.677	43	191430	18.415	ug/l	99
45) 1,4-Dioxane	9.688	88	27442	418.594	ug/l #	94
46) Methyl methacrylate	9.665	41	89083	18.592	ug/l	97
47) n-amyl Acetate	12.688	43	104432m	14.866	ug/l	
48) t-1,3-Dichloropropene	10.818	75	116171	18.855	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	121275	19.218	ug/l	91
50) 1,1,2-Trichloroethane	11.000	97	74462	19.864	ug/l	95
51) Ethyl methacrylate	10.859	69	104101	17.844	ug/l	98
52) 1,3-Dichloropropane	11.141	76	128513	19.742	ug/l	99
53) Dibromochloromethane	11.341	129	84830	20.182	ug/l	92
54) 1,2-Dibromoethane	11.447	107	77863	19.962	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	302139	90.391	ug/l	97
56) Bromoform	12.559	173	54385	19.813	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	626397	98.671	ug/l	99
59) 2-Hexanone	11.176	43	404150	97.427	ug/l	98
61) Tetrachloroethene	11.082	164	63231	23.654	ug/l	95
62) Toluene	10.612	91	335893	20.683	ug/l	99
64) Chlorobenzene	11.870	112	209374	21.006	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	72594	20.686	ug/l	97
66) Ethyl Benzene	11.941	91	355068	20.266	ug/l	96
67) m/p-Xylenes	12.053	106	273309	42.024	ug/l	95
68) o-Xylene	12.376	106	127119	20.159	ug/l	99
69) Styrene	12.394	104	215468	19.660	ug/l	98
70) Isopropylbenzene	12.676	105	336033	21.016	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.917	83	118799	20.668	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	108491m	19.223	ug/l	
73) Bromobenzene	12.959	156	83034	21.226	ug/l	92
74) n-propylbenzene	13.012	91	437674	21.695	ug/l	99
75) 2-Chlorotoluene	13.106	91	247503	20.384	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	286122	21.191	ug/l	96
77) t-1,4-Dichloro-2-butene	12.717	75	31336	16.450	ug/l	83
78) 4-Chlorotoluene	13.200	91	257792	21.060	ug/l	97
79) tert-butylbenzene	13.417	119	248105	21.941	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	292596	21.137	ug/l	97
81) sec-Butylbenzene	13.594	105	376318	22.626	ug/l	97
82) p-Isopropyltoluene	13.706	119	310321	22.645	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	164461	21.807	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	168842	22.335	ug/l	97
85) n-Butylbenzene	14.035	91	304799	23.139	ug/l	99
86) Hexachloroethane	14.306	117	57205	20.552	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	152219	21.400	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	25741	20.180	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	87985	21.748	ug/l	97
90) Hexachlorobutadiene	15.470	225	39410	29.058	ug/l	93
91) Naphthalene	15.617	128	294768	19.791	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	87985	21.748	ug/l	97

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

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