

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112625\
 Data File : VN088367.D
 Acq On : 26 Nov 2025 11:43
 Operator : JC\MD
 Sample : Q3700-03MSD 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WWMSD

Quant Time: Nov 27 00:11:39 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

Manual Integrations APPROVED

Reviewed By :John Carlone 12/01/2025
 Supervised By :Semsettin Yesilyurt 12/01/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	54953	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	283065	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	251234	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	139654	27.822	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.733%		
60) 4-Bromofluorobenzene	12.829	95	121868	28.695	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.667%		
63) Toluene-d8	10.547	98	367205	30.872	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	80335	20.797	ug/l	95
3) Chloromethane	2.389	50	80369	20.179	ug/l	98
4) Vinyl Chloride	2.536	62	85998	20.421	ug/l	98
5) Bromomethane	2.989	94	39198	17.456	ug/l	94
6) Chloroethane	3.147	64	52842	20.300	ug/l	95
7) Trichlorofluoromethane	3.518	101	125379	21.235	ug/l	99
8) Diethyl Ether	3.959	74	43180	19.567	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	67827	21.898	ug/l	96
10) 1,1-Dichloroethene	4.341	96	63661	21.067	ug/l #	80
11) Methyl Iodide	4.588	142	58860	18.303	ug/l #	89
12) Methyl Acetate	5.018	43	106671	21.881	ug/l	92
13) Acrolein	4.177	56	104717	145.996	ug/l	97
14) Acrylonitrile	5.712	53	229448	103.579	ug/l	99
15) Acetone	4.424	58	149498	230.778	ug/l	99
16) Carbon Disulfide	4.706	76	200177	19.642	ug/l	99
17) Allyl chloride	5.018	41	111496	18.987	ug/l	99
18) Methylene Chloride	5.271	84	73875	19.668	ug/l	97
19) trans-1,2-Dichloroethene	5.777	96	67856	19.284	ug/l	95
20) Diisopropyl ether	6.653	45	252115	20.092	ug/l	100
21) 1,1-Dichloroethane	6.559	63	142150	20.108	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	80755	19.746	ug/l	96
23) tert-Butyl Alcohol	5.518	59	92347	113.373	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	230676	18.933	ug/l	100
25) Chloroform	7.947	83	163941	23.403	ug/l	95
26) Cyclohexane	8.241	56	114157	19.117	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	99088	20.980	ug/l	99
30) 2-Butanone	7.471	43	334469	109.476	ug/l	99
31) 2,2-Dichloropropane	7.471	77	118992	20.426	ug/l #	85
32) 1,1,1-Trichloroethane	8.153	97	122849	21.100	ug/l	98
33) Carbon Tetrachloride	8.347	117	105485	21.216	ug/l	92
34) Benzene	8.588	78	299578	21.220	ug/l	97
35) Methacrylonitrile	7.759	41	66890	20.990	ug/l	95
36) 1,2-Dichloroethane	8.653	62	109681	19.963	ug/l	100
37) Trichloroethene	9.335	130	70385	22.000	ug/l	99
38) Methylcyclohexane	9.582	83	113952	21.044	ug/l	99
39) 1,2-Dichloropropane	9.600	63	77179	21.189	ug/l	91
40) Dibromomethane	9.688	93	56395	21.550	ug/l	97
41) Bromodichloromethane	9.865	83	110812	21.035	ug/l	99
42) Vinyl Acetate	6.588	43	1121454	109.979	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	132478	21.551	ug/l	99
44) Isopropyl Acetate	8.671	43	198782	20.983	ug/l	98
45) 1,4-Dioxane	9.676	88	30871	541.135	ug/l	96
46) Methyl methacrylate	9.665	41	89714	20.237	ug/l	88
47) n-amyl Acetate	12.529	43	108310m	22.562	ug/l	
48) t-1,3-Dichloropropene	10.818	75	110120	19.543	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	117001	19.957	ug/l	97
50) 1,1,2-Trichloroethane	10.994	97	66605	20.583	ug/l	93
51) Ethyl methacrylate	10.859	69	108042	20.294	ug/l	93
52) 1,3-Dichloropropane	11.141	76	118150	20.049	ug/l	99
53) Dibromochloromethane	11.341	129	78843	21.212	ug/l	99
54) 1,2-Dibromoethane	11.447	107	69342	20.624	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	85647	27.927	ug/l	99
56) Bromoform	12.559	173	46882	19.927	ug/l	98
58) 4-Methyl-2-Pentanone	10.423	43	639681	112.574	ug/l	99
59) 2-Hexanone	11.176	43	432660	114.667	ug/l	98
61) Tetrachloroethene	11.082	164	65709	25.368	ug/l	91
62) Toluene	10.612	91	303588	21.057	ug/l	99
64) Chlorobenzene	11.870	112	185602	20.786	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	66253	21.678	ug/l	97
66) Ethyl Benzene	11.941	91	330306	20.787	ug/l	98
67) m/p-Xylenes	12.047	106	249467	41.982	ug/l	98
68) o-Xylene	12.376	106	115299	20.569	ug/l	96
69) Styrene	12.388	104	193149	20.288	ug/l	98
70) Isopropylbenzene	12.676	105	310322	20.889	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	96181	19.987	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	100516m	21.561	ug/l	
73) Bromobenzene	12.959	156	70666	21.071	ug/l	96
74) n-propylbenzene	13.011	91	386486	21.022	ug/l	100
75) 2-Chlorotoluene	13.106	91	225403	20.163	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	253748	20.349	ug/l	100
77) t-1,4-Dichloro-2-butene	12.717	75	31265	19.529	ug/l	97
78) 4-Chlorotoluene	13.200	91	230174	20.318	ug/l	98
79) tert-butylbenzene	13.417	119	218839	20.498	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	253776	20.466	ug/l	98
81) sec-Butylbenzene	13.594	105	323752	20.791	ug/l	99
82) p-Isopropyltoluene	13.706	119	260451	20.241	ug/l	99
83) 1,3-Dichlorobenzene	13.711	146	136881	21.007	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	137053	20.769	ug/l	99
85) n-Butylbenzene	14.035	91	254994	20.794	ug/l	99
86) Hexachloroethane	14.311	117	46696	18.954	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	126699	20.600	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	23979	21.200	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	72109	20.892	ug/l	98
90) Hexachlorobutadiene	15.476	225	32536	24.274	ug/l	96
91) Naphthalene	15.617	128	266214	21.317	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	72109	20.892	ug/l	98

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

