

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100925\
 Data File : VN088053.D
 Acq On : 09 Oct 2025 15:18
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 10 01:07:52 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	7.800	128	67497	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.077	114	373268	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	327594	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	161030	30.638	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.133%			
60) 4-Bromofluorobenzene	12.823	95	164360	30.434	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.433%			
63) Toluene-d8	10.541	98	450421	30.860	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.867%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	66071	17.090	ug/l	95
3) Chloromethane	2.383	50	70368	16.055	ug/l	99
4) Vinyl Chloride	2.536	62	77189	16.890	ug/l	97
5) Bromomethane	2.983	94	41996	17.089	ug/l	91
6) Chloroethane	3.142	64	49238	16.332	ug/l	96
7) Trichlorofluoromethane	3.512	101	104461	16.808	ug/l	97
8) Diethyl Ether	3.953	74	46473	16.550	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	54676m	16.435	ug/l	
10) 1,1-Dichloroethene	4.336	96	58947	16.610	ug/l	95
11) Methyl Iodide	4.583	142	47634	14.563	ug/l	97
12) Methyl Acetate	5.012	43	92567	16.044	ug/l	92
13) Acrolein	4.177	56	74174	83.078	ug/l #	3
14) Acrylonitrile	5.700	53	211479	75.956	ug/l	99
15) Acetone	4.424	58	59020	72.383	ug/l	91
16) Carbon Disulfide	4.700	76	183353	16.481	ug/l	98
17) Allyl chloride	5.018	41	109499	16.351	ug/l	99
18) Methylene Chloride	5.265	84	74939	16.614	ug/l #	94
19) trans-1,2-Dichloroethene	5.771	96	69089	16.838	ug/l	94
20) Diisopropyl ether	6.653	45	257441	16.886	ug/l	99
21) 1,1-Dichloroethane	6.553	63	136660	17.219	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	83749	16.305	ug/l	95
23) tert-Butyl Alcohol	5.506	59	79947	71.595	ug/l #	100
24) Methyl tert-Butyl Ether	5.777	73	255647	16.689	ug/l	100
25) Chloroform	7.947	83	137414	16.778	ug/l	97
26) Cyclohexane	8.236	56	103496	15.739	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	90153	16.850	ug/l	98
30) 2-Butanone	7.465	43	300336	76.109	ug/l	99
31) 2,2-Dichloropropane	7.471	77	114772	16.648	ug/l	97
32) 1,1,1-Trichloroethane	8.147	97	113763	17.016	ug/l	98
33) Carbon Tetrachloride	8.341	117	95243	17.008	ug/l	96
34) Benzene	8.588	78	297612	16.770	ug/l	99
35) Methacrylonitrile	7.759	41	65128	15.695	ug/l	94
36) 1,2-Dichloroethane	8.647	62	104592	16.976	ug/l	100
37) Trichloroethene	9.330	130	68184	16.216	ug/l	98
38) Methylcyclohexane	9.577	83	108224	16.379	ug/l	96
39) 1,2-Dichloropropane	9.600	63	75556	16.979	ug/l	94
40) Dibromomethane	9.688	93	54947	16.963	ug/l	95
41) Bromodichloromethane	9.865	83	111105	16.795	ug/l	91
42) Vinyl Acetate	6.589	43	1167737	86.865	ug/l	97

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	122874	16.198	ug/l	96
44) Isopropyl Acetate	8.671	43	199493	16.102	ug/l	97
45) 1,4-Dioxane	9.677	88	28974	351.623	ug/l #	95
46) Methyl methacrylate	9.665	41	91105	16.698	ug/l	94
47) n-amyl Acetate	12.582	43	114040m	19.420	ug/l	
48) t-1,3-Dichloropropene	10.812	75	120346	16.360	ug/l	99
49) cis-1,3-Dichloropropene	10.288	75	129065	16.820	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	70726	16.488	ug/l	98
51) Ethyl methacrylate	10.853	69	118689	16.349	ug/l	98
52) 1,3-Dichloropropane	11.141	76	125421	16.759	ug/l	100
53) Dibromochloromethane	11.335	129	84293	16.437	ug/l	97
54) 1,2-Dibromoethane	11.447	107	73984	16.133	ug/l	100
55) 2-Chloroethyl vinyl ether	10.135	63	343174	87.578	ug/l	99
56) Bromoform	12.559	173	52025	15.006	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	585837	79.951	ug/l	99
59) 2-Hexanone	11.177	43	384153	79.405	ug/l	99
61) Tetrachloroethene	11.082	164	54529	16.437	ug/l	93
62) Toluene	10.606	91	317844	17.105	ug/l	100
64) Chlorobenzene	11.871	112	202161	17.033	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.935	131	69040	16.879	ug/l	97
66) Ethyl Benzene	11.941	91	348063	17.226	ug/l	98
67) m/p-Xylenes	12.047	106	268585	34.481	ug/l	99
68) o-Xylene	12.376	106	132388	17.073	ug/l	98
69) Styrene	12.388	104	218499	17.034	ug/l	99
70) Isopropylbenzene	12.676	105	325751	17.140	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	103308	16.033	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	99806m	16.679	ug/l	
73) Bromobenzene	12.959	156	75826	16.324	ug/l	93
74) n-propylbenzene	13.012	91	392988	17.129	ug/l	100
75) 2-Chlorotoluene	13.100	91	241873	17.242	ug/l	98
76) 1,3,5-Trimethylbenzene	13.147	105	273398	16.935	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	34334	14.397	ug/l	79
78) 4-Chlorotoluene	13.200	91	250072	17.546	ug/l	97
79) tert-butylbenzene	13.412	119	239873	17.140	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	276208	17.091	ug/l	98
81) sec-Butylbenzene	13.594	105	338041	17.180	ug/l	98
82) p-Isopropyltoluene	13.706	119	283227	16.859	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	146947	16.813	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	154482	17.139	ug/l	98
85) n-Butylbenzene	14.035	91	262305	16.783	ug/l	100
86) Hexachloroethane	14.306	117	55192	16.400	ug/l	93
87) 1,2-Dichlorobenzene	14.082	146	143672	16.713	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	22606	15.276	ug/l	93
89) 1,2,4-Trichlorobenzene	15.806	180	79784	15.581	ug/l	99
90) Hexachlorobutadiene	15.476	225	26733	15.001	ug/l	96
91) Naphthalene	15.612	128	288677	15.399	ug/l	100
92) 1,2,3-Trichlorobenzene	15.806	180	79784	15.581	ug/l	99

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

