

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
 Data File : VN086827.D
 Acq On : 30 May 2025 11:51
 Operator : JC\MD
 Sample : VN0530WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0530WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/02/2025
 Supervised By : Mahesh Dadoda 06/02/2025

Quant Time: May 31 03:44:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	52082	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	329263	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	277679	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	115678	32.327	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.767%			
60) 4-Bromofluorobenzene	12.847	95	127610	29.271	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.567%			
63) Toluene-d8	10.565	98	385779	30.269	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	67100	18.969	ug/l	100
3) Chloromethane	2.371	50	121106	26.554	ug/l	97
4) Vinyl Chloride	2.530	62	76254	18.168	ug/l	97
5) Bromomethane	2.983	94	33514	15.070	ug/l	93
6) Chloroethane	3.136	64	47982	18.691	ug/l	95
7) Trichlorofluoromethane	3.506	101	98212	19.979	ug/l	97
8) Diethyl Ether	3.942	74	42574	20.762	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.353	101	61868	20.536	ug/l	98
10) 1,1-Dichloroethene	4.324	96	63503	20.675	ug/l	98
11) Methyl Iodide	4.571	142	44826	12.380	ug/l	98
12) Methyl Acetate	5.006	43	67430	19.768	ug/l	96
13) Acrolein	4.165	56	43251	122.739	ug/l	100
14) Acrylonitrile	5.706	53	158967	100.147	ug/l	99
15) Acetone	4.412	58	43022	107.045	ug/l	92
16) Carbon Disulfide	4.695	76	168241	18.765	ug/l	98
17) Allyl chloride	5.006	41	94681	20.750	ug/l	96
18) Methylene Chloride	5.265	84	68651	19.246	ug/l	98
19) trans-1,2-Dichloroethene	5.771	96	64391	20.033	ug/l	96
20) Diisopropyl ether	6.665	45	211534	21.049	ug/l	99
21) 1,1-Dichloroethane	6.553	63	121650	20.058	ug/l	100
22) cis-1,2-Dichloroethene	7.477	96	79520	20.429	ug/l	99
23) tert-Butyl Alcohol	5.512	59	56999	111.820	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	218000	21.536	ug/l	100
25) Chloroform	7.959	83	118865	20.024	ug/l	100
26) Cyclohexane	8.247	56	109983	20.953	ug/l #	96
29) 1,1-Dichloropropene	8.365	75	89208	18.427	ug/l	98
30) 2-Butanone	7.477	43	202680	95.552	ug/l	99
31) 2,2-Dichloropropane	7.483	77	110276m	19.298	ug/l	
32) 1,1,1-Trichloroethane	8.159	97	104957	18.703	ug/l	99
33) Carbon Tetrachloride	8.353	117	88526	18.454	ug/l	95
34) Benzene	8.600	78	286473	18.187	ug/l	98
35) Methacrylonitrile	7.765	41	47421	19.462	ug/l	96
36) 1,2-Dichloroethane	8.665	62	85856	18.601	ug/l	100
37) Trichloroethene	9.347	130	71883	16.452	ug/l	94
38) Methylcyclohexane	9.594	83	106534	19.834	ug/l	98
39) 1,2-Dichloropropane	9.618	63	69866	18.424	ug/l	98
40) Dibromomethane	9.706	93	45009	18.147	ug/l	96
41) Bromodichloromethane	9.882	83	95927	18.476	ug/l	95
42) Vinyl Acetate	6.589	43	663647	107.336	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	85794	19.767	ug/l	97
44) Isopropyl Acetate	8.683	43	146930	19.734	ug/l	99
45) 1,4-Dioxane	9.694	88	24736	373.781	ug/l	98
46) Methyl methacrylate	9.677	41	68930	20.078	ug/l	98
47) n-amyl Acetate	12.500	43	112539	18.827	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	107113	19.279	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	115649	18.925	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	64757	18.538	ug/l	95
51) Ethyl methacrylate	10.871	69	108851	19.240	ug/l	96
52) 1,3-Dichloropropane	11.159	76	111283	17.950	ug/l	99
53) Dibromochloromethane	11.359	129	72354	18.329	ug/l	99
54) 1,2-Dibromoethane	11.465	107	66104	18.512	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	281708	103.733	ug/l	99
56) Bromoform	12.576	173	45885	18.448	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	405217	99.453	ug/l	99
59) 2-Hexanone	11.200	43	267877	91.784	ug/l	99
61) Tetrachloroethene	11.100	164	73006	15.641	ug/l	93
62) Toluene	10.629	91	305486	19.534	ug/l	100
64) Chlorobenzene	11.888	112	187231	18.773	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	64069	19.554	ug/l	98
66) Ethyl Benzene	11.959	91	328982	19.449	ug/l	97
67) m/p-Xylenes	12.071	106	250981	37.811	ug/l	99
68) o-Xylene	12.394	106	124493	19.352	ug/l	99
69) Styrene	12.406	104	205653	19.188	ug/l	100
70) Isopropylbenzene	12.694	105	299128	19.550	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	83141	22.855	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	83742m	19.642	ug/l	
73) Bromobenzene	12.976	156	68798	18.091	ug/l	98
74) n-propylbenzene	13.035	91	342794	18.914	ug/l	100
75) 2-Chlorotoluene	13.123	91	213511	18.355	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	241846	19.000	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	37503	21.495	ug/l	94
78) 4-Chlorotoluene	13.218	91	210729	18.288	ug/l	100
79) tert-butylbenzene	13.435	119	211349	19.205	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	244130	19.108	ug/l	100
81) sec-Butylbenzene	13.612	105	282222	18.824	ug/l	99
82) p-Isopropyltoluene	13.723	119	237542	18.869	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	124148	17.795	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	125428	18.066	ug/l	100
85) n-Butylbenzene	14.053	91	202613	19.225	ug/l	98
86) Hexachloroethane	14.329	117	41190	19.198	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	121239	18.015	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	17625	23.007	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	61238	21.742	ug/l	98
90) Hexachlorobutadiene	15.500	225	22599	18.721	ug/l	97
91) Naphthalene	15.641	128	230603	23.466	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	61238	21.742	ug/l	98

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

