

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111425\
 Data File : VN088283.D
 Acq On : 14 Nov 2025 09:41
 Operator : JC\MD
 Sample : VN1114WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/17/2025
 Supervised By : Mahesh Dadoda 11/17/2025

Quant Time: Nov 14 21:47:35 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	59304	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	313554	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	280371	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	160778	29.680	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.933%		
60) 4-Bromofluorobenzene	12.829	95	140201	29.581	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.600%		
63) Toluene-d8	10.541	98	404847	30.500	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.667%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	78136	18.743	ug/l	99
3) Chloromethane	2.383	50	81974	19.072	ug/l	95
4) Vinyl Chloride	2.536	62	84606	18.616	ug/l	99
5) Bromomethane	2.983	94	47769	19.713	ug/l	89
6) Chloroethane	3.142	64	53357	18.994	ug/l	97
7) Trichlorofluoromethane	3.518	101	114592	17.985	ug/l	93
8) Diethyl Ether	3.965	74	46660	19.593	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	60245	18.023	ug/l	80
10) 1,1-Dichloroethene	4.341	96	61713	18.924	ug/l	94
11) Methyl Iodide	4.583	142	62271	17.943	ug/l	89
12) Methyl Acetate	5.018	43	103293	19.634	ug/l	90
13) Acrolein	4.177	56	67516	87.225	ug/l	100
14) Acrylonitrile	5.706	53	231708	96.925	ug/l	99
15) Acetone	4.424	58	65953	94.341	ug/l	86
16) Carbon Disulfide	4.706	76	209983	19.092	ug/l	98
17) Allyl chloride	5.018	41	117552	18.550	ug/l	98
18) Methylene Chloride	5.259	84	83086	20.498	ug/l	97
19) trans-1,2-Dichloroethene	5.777	96	72467	19.083	ug/l	99
20) Diisopropyl ether	6.653	45	256798	18.964	ug/l	96
21) 1,1-Dichloroethane	6.553	63	145315	19.047	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	85289	19.324	ug/l	96
23) tert-Butyl Alcohol	5.518	59	73900	84.070	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	256875	19.537	ug/l	100
25) Chloroform	7.953	83	146313	19.354	ug/l	99
26) Cyclohexane	8.241	56	114249	17.729	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	99816	19.079	ug/l	97
30) 2-Butanone	7.471	43	322115	95.181	ug/l	98
31) 2,2-Dichloropropane	7.477	77	125665	19.474	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	122376	18.975	ug/l	98
33) Carbon Tetrachloride	8.347	117	104093	18.900	ug/l	98
34) Benzene	8.588	78	302912	19.370	ug/l	96
35) Methacrylonitrile	7.759	41	66962	18.969	ug/l	93
36) 1,2-Dichloroethane	8.653	62	118846	19.527	ug/l	100
37) Trichloroethene	9.335	130	68551	19.344	ug/l	93
38) Methylcyclohexane	9.582	83	105827	17.644	ug/l	100
39) 1,2-Dichloropropane	9.600	63	78277	19.401	ug/l	95
40) Dibromomethane	9.688	93	57513	19.840	ug/l	98
41) Bromodichloromethane	9.871	83	116563	19.975	ug/l	99
42) Vinyl Acetate	6.588	43	1211755	107.279	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	115471	16.958	ug/l	97
44) Isopropyl Acetate	8.676	43	201429	19.195	ug/l	100
45) 1,4-Dioxane	9.682	88	21830	345.448	ug/l	95
46) Methyl methacrylate	9.665	41	94289	19.201	ug/l	91
47) n-amyl Acetate	12.582	43	81840m	15.391	ug/l	
48) t-1,3-Dichloropropene	10.818	75	118714	19.020	ug/l	96
49) cis-1,3-Dichloropropene	10.288	75	127851	19.687	ug/l	99
50) 1,1,2-Trichloroethane	11.000	97	70708	19.726	ug/l	97
51) Ethyl methacrylate	10.853	69	110302	18.704	ug/l	90
52) 1,3-Dichloropropane	11.141	76	128186	19.637	ug/l	98
53) Dibromochloromethane	11.335	129	79806	19.383	ug/l	98
54) 1,2-Dibromoethane	11.447	107	74332	19.959	ug/l	95
55) 2-Chloroethyl vinyl ether	10.141	63	309281	91.042	ug/l	100
56) Bromoform	12.559	173	49286	18.912	ug/l	96
58) 4-Methyl-2-Pentanone	10.423	43	629784	99.315	ug/l	100
59) 2-Hexanone	11.176	43	411476	97.719	ug/l	99
61) Tetrachloroethene	11.082	164	54026	18.690	ug/l	91
62) Toluene	10.612	91	316243	19.655	ug/l	98
64) Chlorobenzene	11.870	112	193352	19.404	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.935	131	69473	20.370	ug/l	98
66) Ethyl Benzene	11.941	91	341247	19.244	ug/l	98
67) m/p-Xylenes	12.047	106	256854	38.733	ug/l	98
68) o-Xylene	12.376	106	118439	18.933	ug/l	99
69) Styrene	12.388	104	201756	18.989	ug/l	99
70) Isopropylbenzene	12.676	105	312750	18.865	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	107172	19.957	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	111173m	21.369	ug/l	
73) Bromobenzene	12.959	156	75039	20.049	ug/l	96
74) n-propylbenzene	13.012	91	382884	18.662	ug/l	100
75) 2-Chlorotoluene	13.100	91	234052	18.761	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	267060	19.191	ug/l	100
77) t-1,4-Dichloro-2-butene	12.717	75	33315	18.647	ug/l	93
78) 4-Chlorotoluene	13.200	91	233650	18.482	ug/l	97
79) tert-butylbenzene	13.417	119	223315	18.743	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	268346	19.392	ug/l	97
81) sec-Butylbenzene	13.594	105	324668	18.683	ug/l	98
82) p-Isopropyltoluene	13.706	119	264787	18.440	ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	141199	19.417	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	142468	19.346	ug/l	99
85) n-Butylbenzene	14.035	91	256344	18.731	ug/l	100
86) Hexachloroethane	14.306	117	52358	19.043	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	134793	19.638	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	25430	20.146	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	72891	18.924	ug/l	98
90) Hexachlorobutadiene	15.476	225	28806	19.258	ug/l	96
91) Naphthalene	15.611	128	259315	18.607	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	72891	18.924	ug/l	98

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

