

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087178.D
 Acq On : 25 Jun 2025 15:20
 Operator : JC\MD
 Sample : Q2126-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2025

Quant Time: Jun 26 04:03:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/26/2025
 Supervised By : Mahesh Dadoda 06/26/2025

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

Internal Standards						
1) Bromochloromethane	7.824	128	35779	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	197443	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	179361	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	81404	30.197	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.667%			
60) 4-Bromofluorobenzene	12.847	95	82429	29.782	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.267%			
63) Toluene-d8	10.565	98	246039	30.551	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.833%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	10078	4.679	ug/l	93
3) Chloromethane	2.395	50	11646	5.294	ug/l	98
4) Vinyl Chloride	2.554	62	11421	4.777	ug/l	95
5) Bromomethane	2.989	94	4092m	3.225	ug/l	
6) Chloroethane	3.148	64	6509	5.075	ug/l	93
7) Trichlorofluoromethane	3.530	101	12148	4.142	ug/l	97
8) Diethyl Ether	3.989	74	4678m	3.247	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.401	101	10025	4.611	ug/l	90
10) 1,1-Dichloroethene	4.365	96	9894m	4.565	ug/l	
11) Methyl Iodide	4.612	142	3838	1.977	ug/l #	90
12) Methyl Acetate	5.048	43	15206	4.473	ug/l	95
13) Acrolein	4.200	56	6670	12.768	ug/l	96
14) Acrylonitrile	5.736	53	37806	23.841	ug/l	99
15) Acetone	4.448	58	9814	21.217	ug/l	89
16) Carbon Disulfide	4.736	76	33858	5.343	ug/l	99
17) Allyl chloride	5.048	41	17580	4.918	ug/l	90
18) Methylene Chloride	5.295	84	13314	5.303	ug/l	98
19) trans-1,2-Dichloroethene	5.812	96	11937	5.036	ug/l	91
20) Diisopropyl ether	6.689	45	36469	4.808	ug/l	94
21) 1,1-Dichloroethane	6.589	63	22113	4.878	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	13607	4.933	ug/l	97
23) tert-Butyl Alcohol	5.530	59	13976m	23.436	ug/l	
24) Methyl tert-Butyl Ether	5.818	73	36160	4.757	ug/l #	83
25) Chloroform	7.971	83	20738	4.775	ug/l	98
26) Cyclohexane	8.265	56	18046	4.789	ug/l #	94
29) 1,1-Dichloropropene	8.377	75	15176	4.931	ug/l	98
30) 2-Butanone	7.494	43	48927	23.569	ug/l #	97
31) 2,2-Dichloropropane	7.500	77	17631	4.746	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	18646	5.186	ug/l	98
33) Carbon Tetrachloride	8.371	117	15148	5.007	ug/l	97
34) Benzene	8.612	78	49923	5.121	ug/l #	93
35) Methacrylonitrile	7.789	41	10298	4.922	ug/l	96
36) 1,2-Dichloroethane	8.677	62	16114	5.116	ug/l #	95
37) Trichloroethene	9.353	130	11276	5.014	ug/l	100
38) Methylcyclohexane	9.606	83	16817	4.763	ug/l	96
39) 1,2-Dichloropropane	9.624	63	12291	5.023	ug/l	93
40) Dibromomethane	9.706	93	8061	4.845	ug/l	98
41) Bromodichloromethane	9.888	83	16747	4.986	ug/l	99
42) Vinyl Acetate	6.624	43	142160	21.055	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	21370	5.703	ug/l #	80
44) Isopropyl Acetate	8.694	43	29960	4.907	ug/l	98
45) 1,4-Dioxane	9.712	88	3819m	92.465	ug/l	
46) Methyl methacrylate	9.682	41	12118	4.269	ug/l	95
47) n-amyl Acetate	12.694	43	27340m	7.324	ug/l	
48) t-1,3-Dichloropropene	10.841	75	16913	4.517	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	19609	4.927	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	11735	4.965	ug/l	98
51) Ethyl methacrylate	10.894	69	13557	3.768	ug/l	96
52) 1,3-Dichloropropane	11.165	76	19699	4.855	ug/l	97
53) Dibromochloromethane	11.359	129	11682	4.708	ug/l	97
54) 1,2-Dibromoethane	11.471	107	11267	4.620	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	48317	23.431	ug/l	99
56) Bromoform	12.576	173	7428	4.355	ug/l #	96
58) 4-Methyl-2-Pentanone	10.453	43	77969	21.623	ug/l	99
59) 2-Hexanone	11.229	43	31017m	13.321	ug/l	
61) Tetrachloroethene	11.106	164	9933	5.592	ug/l	89
62) Toluene	10.630	91	53123	5.244	ug/l	100
64) Chlorobenzene	11.894	112	31881	4.934	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	10192	4.774	ug/l	99
66) Ethyl Benzene	11.965	91	49708	4.483	ug/l	97
67) m/p-Xylenes	12.071	106	37447	8.813	ug/l	98
68) o-Xylene	12.394	106	17909	4.418	ug/l	98
69) Styrene	12.412	104	29254	4.204	ug/l	100
70) Isopropylbenzene	12.694	105	46148	4.571	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	18796	5.172	ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	15954m	5.091	ug/l	
73) Bromobenzene	12.976	156	11850	4.839	ug/l	98
74) n-propylbenzene	13.035	91	59042	4.787	ug/l	99
75) 2-Chlorotoluene	13.123	91	36995	4.965	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	38548	4.690	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	5366	3.860	ug/l	90
78) 4-Chlorotoluene	13.218	91	37234	4.879	ug/l	98
79) tert-butylbenzene	13.435	119	34537	4.999	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	38237	4.633	ug/l	100
81) sec-Butylbenzene	13.612	105	48434	4.823	ug/l	100
82) p-Isopropyltoluene	13.723	119	39118	4.681	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	23657	5.016	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	23510	4.953	ug/l	98
85) n-Butylbenzene	14.053	91	36171	4.744	ug/l	99
86) Hexachloroethane	14.329	117	7490	4.734	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	22191	4.991	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	4267	5.215	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	12170	4.838	ug/l	99
90) Hexachlorobutadiene	15.494	225	4206	5.634	ug/l	94
91) Naphthalene	15.641	128	42959	4.339	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	12170	4.838	ug/l	99

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

Manual Integrations

Reviewed By :John Carlone 06/26/2025
Supervised By :Mahesh Dadoda 06/26/2025

TIC: VN087178.D\data.ms

Abundance

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

Chlorodifluoromethane, M
Chloromethane, M
Vinyl Chloride, M
Bromomethane, M
Chloroethane, M
Trichlorofluoromethane, M
Diethyl Ether, T
Acrolein, M
Acetone, M
Methyl iodide
Carbon Disulfide, M
Methyl acetate
Methylene Chloride, M
tert-Butyl Alcohol, M
Acrylonitrile, M
1,2-Dichloroethane, M
Disopropyl ether, M
Acetate, M
Ethyl Acetate
Methacrylonitrile
Chloroform, M
1,1,1-Trichloroethane, M
Carbonyl sulfide, M
1,2-Dichloroethane, M
Benzene, M
1,4-Difluorobenzene, I
Trichloroethene, M
Methoxybenzene, M
Bromodichloromethane, M
cis-1,3-Dichloropropene, T
4-Methyl-2-Pentanone, M
Toluene, M
Ethyl methacrylate
1,1,2,2-Tetrachloroethane, M
2-Hexanone
Dibromochloromethane, M
1,2-Dibromoethane, M
Chlorobenzene, M
Chlorobenzene-d5, I
p-Xylenes, M
Styrene, M
Bromobenzene, M
1,4-Dichloro-2-butene
Isopropylbenzene, M
1,2,2-Trichloroethane, M
1,2-Dichlorobenzene, M
4-Chlorobenzonitrile
tert-Butylbenzene
sec-Butylbenzene
2,4-Dimethylbenzene
1,4-Dichlorobenzene, M
p-Isopropylchlorobenzene, M
1,2-Dichlorobenzene, M
1,2-Dibromoethane, T
Hexachloroethane, T
1,2-Dibromo-3-Chloropropane
Hexachlorobutadiene
Naphthalene, M
1,2,3-Trichlorobenzene