

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112625\
 Data File : VN088368.D
 Acq On : 26 Nov 2025 13:12
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Nov 27 00:12:28 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	53794	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	255087	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	222840	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	136818	27.844	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.800%		
60) 4-Bromofluorobenzene	12.829	95	105919	28.118	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.733%		
63) Toluene-d8	10.541	98	317633	30.107	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.367%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	61402	16.238	ug/l	99
3) Chloromethane	2.383	50	76981	19.745	ug/l	98
4) Vinyl Chloride	2.536	62	71794	17.415	ug/l	96
5) Bromomethane	2.983	94	38192	17.375	ug/l	91
6) Chloroethane	3.142	64	47107	18.487	ug/l	98
7) Trichlorofluoromethane	3.518	101	97268	16.829	ug/l	99
8) Diethyl Ether	3.959	74	43601	20.184	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	52922	17.454	ug/l	95
10) 1,1-Dichloroethene	4.336	96	51968	17.568	ug/l	86
11) Methyl Iodide	4.589	142	57379	18.227	ug/l	92
12) Methyl Acetate	5.018	43	104330	21.862	ug/l	95
13) Acrolein	4.177	56	100212	142.726	ug/l	97
14) Acrylonitrile	5.706	53	214206	98.782	ug/l	99
15) Acetone	4.418	58	63821	100.642	ug/l	85
16) Carbon Disulfide	4.706	76	169016	16.942	ug/l	97
17) Allyl chloride	5.012	41	103665	18.034	ug/l	96
18) Methylene Chloride	5.259	84	74660	20.306	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	60880	17.674	ug/l	94
20) Diisopropyl ether	6.653	45	246025	20.029	ug/l	96
21) 1,1-Dichloroethane	6.553	63	136289	19.694	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	78523	19.614	ug/l	91
23) tert-Butyl Alcohol	5.512	59	75652	94.878	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	236639	19.841	ug/l	99
25) Chloroform	7.947	83	135478	19.757	ug/l	100
26) Cyclohexane	8.241	56	86950	14.875	ug/l	99
29) 1,1-Dichloropropene	8.353	75	79590	18.700	ug/l	97
30) 2-Butanone	7.465	43	307740	111.775	ug/l	99
31) 2,2-Dichloropropane	7.471	77	100010	19.051	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	104423	19.902	ug/l	98
33) Carbon Tetrachloride	8.341	117	85596	19.104	ug/l	90
34) Benzene	8.588	78	271435	21.335	ug/l	98
35) Methacrylonitrile	7.759	41	64840	22.578	ug/l	95
36) 1,2-Dichloroethane	8.653	62	108028	21.818	ug/l	98
37) Trichloroethene	9.335	130	62418	21.650	ug/l	91
38) Methylcyclohexane	9.576	83	82048	16.814	ug/l	99
39) 1,2-Dichloropropane	9.600	63	72684	22.144	ug/l	95
40) Dibromomethane	9.682	93	54679	23.186	ug/l	99
41) Bromodichloromethane	9.865	83	105048	22.127	ug/l	96
42) Vinyl Acetate	6.588	43	1108185	120.597	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	115453	20.841	ug/l	96
44) Isopropyl Acetate	8.671	43	193247	22.636	ug/l	100
45) 1,4-Dioxane	9.688	88	26380	513.130	ug/l	95
46) Methyl methacrylate	9.659	41	89278	22.348	ug/l	93
47) n-amyl Acetate	12.559	43	95199m	22.006	ug/l	
48) t-1,3-Dichloropropene	10.818	75	105475	20.772	ug/l	99
49) cis-1,3-Dichloropropene	10.288	75	113992	21.576	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	66533	22.816	ug/l	96
51) Ethyl methacrylate	10.853	69	103827	21.641	ug/l	99
52) 1,3-Dichloropropane	11.141	76	117901	22.201	ug/l	99
53) Dibromochloromethane	11.335	129	75927	22.668	ug/l	100
54) 1,2-Dibromoethane	11.447	107	66553	21.966	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	295018	106.748	ug/l	99
56) Bromoform	12.559	173	43369	20.456	ug/l	95
58) 4-Methyl-2-Pentanone	10.423	43	619181	122.851	ug/l	100
59) 2-Hexanone	11.176	43	391732	117.048	ug/l	99
61) Tetrachloroethene	11.082	164	58533	25.477	ug/l	88
62) Toluene	10.606	91	271787	21.253	ug/l	99
64) Chlorobenzene	11.870	112	165481	20.894	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.941	131	61324	22.622	ug/l	98
66) Ethyl Benzene	11.941	91	277384	19.681	ug/l	93
67) m/p-Xylenes	12.053	106	208849	39.625	ug/l	98
68) o-Xylene	12.376	106	99840	20.080	ug/l	97
69) Styrene	12.394	104	168040	19.899	ug/l	99
70) Isopropylbenzene	12.676	105	248100	18.829	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	92641	21.705	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	83209m	20.123	ug/l	
73) Bromobenzene	12.959	156	61495	20.672	ug/l	100
74) n-propylbenzene	13.012	91	306527	18.798	ug/l	100
75) 2-Chlorotoluene	13.106	91	185065	18.664	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	210475	19.029	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	29666	20.892	ug/l	98
78) 4-Chlorotoluene	13.200	91	190387	18.948	ug/l	95
79) tert-butylbenzene	13.417	119	174375	18.414	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	206222	18.750	ug/l	98
81) sec-Butylbenzene	13.594	105	253754	18.372	ug/l	99
82) p-Isopropyltoluene	13.706	119	211505	18.532	ug/l	97
83) 1,3-Dichlorobenzene	13.711	146	116961	20.237	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	114676	19.592	ug/l	97
85) n-Butylbenzene	14.035	91	190668	17.529	ug/l	99
86) Hexachloroethane	14.311	117	37456	17.141	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	110523	20.259	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	21130	21.062	ug/l	99
89) 1,2,4-Trichlorobenzene	15.811	180	63500	20.742	ug/l	97
90) Hexachlorobutadiene	15.476	225	21615	18.181	ug/l	98
91) Naphthalene	15.617	128	228149	20.597	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	63500	20.742	ug/l	97

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

