

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087163.D
 Acq On : 25 Jun 2025 09:20
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2025
 Supervised By : Mahesh Dadoda 06/26/2025

Quant Time: Jun 25 10:35:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:35:17 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	35021	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	9.106	114	196036	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	185687	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	80849	33.600	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.000%#			
60) 4-Bromofluorobenzene	12.847	95	83246	28.555	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.167%			
63) Toluene-d8	10.565	98	259828	30.486	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.633%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	38576	16.218	ug/l	97
3) Chloromethane	2.395	50	36457	11.888	ug/l	98
4) Vinyl Chloride	2.553	62	42008	14.885	ug/l	93
5) Bromomethane	3.001	94	22531	15.067	ug/l	93
6) Chloroethane	3.153	64	22548	13.062	ug/l	98
7) Trichlorofluoromethane	3.530	101	54211	16.400	ug/l	97
8) Diethyl Ether	3.983	74	25082	18.191	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.400	101	39250	19.375	ug/l	86
10) 1,1-Dichloroethene	4.371	96	39141	18.952	ug/l	99
11) Methyl Iodide	4.612	142	30168	12.391	ug/l	95
12) Methyl Acetate	5.047	43	61084	26.632	ug/l	94
13) Acrolein	4.206	56	41919	176.912	ug/l	100
14) Acrylonitrile	5.736	53	143262	134.221	ug/l	98
15) Acetone	4.453	58	42803	158.384	ug/l	88
16) Carbon Disulfide	4.736	76	113169	18.771	ug/l	100
17) Allyl chloride	5.042	41	64418	20.995	ug/l	92
18) Methylene Chloride	5.300	84	45462	18.954	ug/l	96
19) trans-1,2-Dichloroethene	5.806	96	42521	19.673	ug/l	90
20) Diisopropyl ether	6.689	45	142052	21.022	ug/l	94
21) 1,1-Dichloroethane	6.583	63	83594	20.498	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	48862	18.668	ug/l	93
23) tert-Butyl Alcohol	5.536	59	52931	154.426	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	133867	19.667	ug/l	95
25) Chloroform	7.971	83	77659	19.456	ug/l	98
26) Cyclohexane	8.265	56	65879	18.665	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	52341	18.159	ug/l	99
30) 2-Butanone	7.494	43	186786	147.905	ug/l	97
31) 2,2-Dichloropropane	7.500	77	67667	19.889	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	65006	19.456	ug/l	99
33) Carbon Tetrachloride	8.371	117	51957	18.192	ug/l	96
34) Benzene	8.612	78	171052	18.239	ug/l #	94
35) Methacrylonitrile	7.788	41	37169	25.622	ug/l	95
36) 1,2-Dichloroethane	8.671	62	57773	21.023	ug/l	96
37) Trichloroethene	9.353	130	38479	14.792	ug/l	94
38) Methylcyclohexane	9.606	83	61684	19.288	ug/l	96
39) 1,2-Dichloropropane	9.624	63	45479	20.143	ug/l	99
40) Dibromomethane	9.712	93	30677	20.774	ug/l	97
41) Bromodichloromethane	9.894	83	63009	20.384	ug/l	99
42) Vinyl Acetate	6.618	43	619269	168.226	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	73261	28.350	ug/l	99
44) Isopropyl Acetate	8.694	43	109066	24.603	ug/l	92
45) 1,4-Dioxane	9.700	88	14898	378.114	ug/l	94
46) Methyl methacrylate	9.682	41	51785	25.335	ug/l	94
47) n-amyl Acetate	12.529	43	66120m	18.579	ug/l	
48) t-1,3-Dichloropropene	10.835	75	66870	20.216	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	74233	20.403	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	43535	20.932	ug/l	97
51) Ethyl methacrylate	10.882	69	61428	18.237	ug/l	97
52) 1,3-Dichloropropane	11.165	76	74825	20.272	ug/l	99
53) Dibromochloromethane	11.359	129	44787	19.056	ug/l	99
54) 1,2-Dibromoethane	11.471	107	44953	21.145	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	189897	117.448	ug/l	99
56) Bromoform	12.576	173	30532	20.618	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	338778	124.338	ug/l	97
59) 2-Hexanone	11.206	43	199560	102.251	ug/l	99
61) Tetrachloroethene	11.106	164	33143	10.618	ug/l	93
62) Toluene	10.629	91	191888	18.349	ug/l	99
64) Chlorobenzene	11.888	112	121902	18.278	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40342	18.412	ug/l	99
66) Ethyl Benzene	11.965	91	204111	18.045	ug/l	97
67) m/p-Xylenes	12.070	106	157576	35.500	ug/l	98
68) o-Xylene	12.394	106	74793	17.386	ug/l	99
69) Styrene	12.412	104	128666	17.953	ug/l	98
70) Isopropylbenzene	12.694	105	183132	17.899	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	70012	28.780	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	57564m	20.191	ug/l	
73) Bromobenzene	12.982	156	44654	17.559	ug/l	89
74) n-propylbenzene	13.035	91	223685	18.457	ug/l	98
75) 2-Chlorotoluene	13.123	91	133694	17.187	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	146137	17.169	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	24271	20.803	ug/l	93
78) 4-Chlorotoluene	13.217	91	137101	17.793	ug/l	99
79) tert-butylbenzene	13.435	119	122243	16.611	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	145827	17.068	ug/l	99
81) sec-Butylbenzene	13.612	105	182391	18.192	ug/l	99
82) p-Isopropyltoluene	13.729	119	156830	18.630	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	88727	19.018	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	88343	19.028	ug/l	99
85) n-Butylbenzene	14.053	91	142647	20.240	ug/l	99
86) Hexachloroethane	14.329	117	28116	19.596	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	82984	18.439	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.711	75	15132	29.539	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	46967	24.937	ug/l	96
90) Hexachlorobutadiene	15.494	225	13876	17.189	ug/l	99
91) Naphthalene	15.635	128	178532	27.168	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	46967	24.937	ug/l	96

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

