

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042425\
 Data File : VN086397.D
 Acq On : 24 Apr 2025 16:35
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/25/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 25 01:41:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33473	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	200679	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.864	117	185622	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	98786	30.610	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.033%			
60) 4-Bromofluorobenzene	12.847	95	105260	28.852	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.167%			
63) Toluene-d8	10.565	98	303689	29.739	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.133%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	42602	18.435	ug/l	99
3) Chloromethane	2.359	50	57315	17.460	ug/l	97
4) Vinyl Chloride	2.518	62	56324	17.915	ug/l	99
5) Bromomethane	2.965	94	30605	18.645	ug/l	96
6) Chloroethane	3.124	64	39388	18.792	ug/l	98
7) Trichlorofluoromethane	3.500	101	67828	18.277	ug/l	97
8) Diethyl Ether	3.959	74	30528	19.488	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	42415	18.591	ug/l	98
10) 1,1-Dichloroethene	4.341	96	42023	17.996	ug/l	92
11) Methyl Iodide	4.588	142	51584	18.879	ug/l	98
12) Methyl Acetate	5.024	43	69467	20.988	ug/l	97
13) Acrolein	4.183	56	16513	103.369	ug/l	98
14) Acrylonitrile	5.718	53	123852	100.540	ug/l	98
15) Acetone	4.430	58	32123	94.634	ug/l	91
16) Carbon Disulfide	4.712	76	107311	17.439	ug/l	100
17) Allyl chloride	5.018	41	66768	17.882	ug/l	97
18) Methylene Chloride	5.271	84	50730	19.076	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	45324	18.210	ug/l	95
20) Diisopropyl ether	6.665	45	169937	19.141	ug/l	97
21) 1,1-Dichloroethane	6.571	63	90945	18.714	ug/l	99
22) cis-1,2-Dichloroethene	7.482	96	57914	18.608	ug/l	98
23) tert-Butyl Alcohol	5.512	59	51355	107.616	ug/l #	14
24) Methyl tert-Butyl Ether	5.788	73	171183	19.841	ug/l	100
25) Chloroform	7.965	83	94385	19.190	ug/l	94
26) Cyclohexane	8.253	56	76077	17.730	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	63858	18.050	ug/l	99
30) 2-Butanone	7.477	43	173399	100.981	ug/l	99
31) 2,2-Dichloropropane	7.482	77	81655	17.955	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	78491	18.566	ug/l	99
33) Carbon Tetrachloride	8.359	117	64284	18.471	ug/l	96
34) Benzene	8.600	78	211061	18.757	ug/l	94
35) Methacrylonitrile	7.777	41	37621	19.206	ug/l	94
36) 1,2-Dichloroethane	8.665	62	69854	19.121	ug/l	99
37) Trichloroethene	9.347	130	50960	18.091	ug/l	95
38) Methylcyclohexane	9.600	83	72135	17.654	ug/l	98
39) 1,2-Dichloropropane	9.623	63	52069	18.731	ug/l	96
40) Dibromomethane	9.706	93	35726	19.218	ug/l	96
41) Bromodichloromethane	9.888	83	76054	19.332	ug/l	98
42) Vinyl Acetate	6.600	43	580685	97.621	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	65738m	19.345	ug/l	
44) Isopropyl Acetate	8.682	43	128098	19.862	ug/l	100
45) 1,4-Dioxane	9.688	88	18041	358.521	ug/l	98
46) Methyl methacrylate	9.676	41	58679	19.724	ug/l	97
47) n-amyl Acetate	12.488	43	104497	19.010	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	83550	18.996	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	87997	18.973	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	51299	19.756	ug/l	98
51) Ethyl methacrylate	10.870	69	87523	19.354	ug/l	98
52) 1,3-Dichloropropane	11.159	76	90229	19.661	ug/l	97
53) Dibromochloromethane	11.359	129	55166	18.920	ug/l	97
54) 1,2-Dibromoethane	11.465	107	51828	19.631	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	222420	104.609	ug/l	100
56) Bromoform	12.576	173	36755	19.426	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	370811	103.231	ug/l	99
59) 2-Hexanone	11.194	43	272153	102.813	ug/l	99
61) Tetrachloroethene	11.100	164	50892	17.976	ug/l	98
62) Toluene	10.623	91	233340	18.780	ug/l	99
64) Chlorobenzene	11.888	112	143256	18.504	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.953	131	49944	19.294	ug/l	99
66) Ethyl Benzene	11.959	91	258262	18.466	ug/l	100
67) m/p-Xylenes	12.064	106	193892	36.539	ug/l	98
68) o-Xylene	12.394	106	96902	18.650	ug/l	97
69) Styrene	12.406	104	160580	18.234	ug/l	100
70) Isopropylbenzene	12.694	105	236107	18.204	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	70460	20.632	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	59275m	19.909	ug/l	
73) Bromobenzene	12.976	156	56024	18.789	ug/l	99
74) n-propylbenzene	13.035	91	279045	18.106	ug/l	100
75) 2-Chlorotoluene	13.123	91	174552	18.143	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	193903	18.221	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	28391	18.789	ug/l	97
78) 4-Chlorotoluene	13.217	91	173723	18.059	ug/l	99
79) tert-butylbenzene	13.435	119	163207	17.907	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	194793	17.923	ug/l	97
81) sec-Butylbenzene	13.611	105	234276	18.007	ug/l	99
82) p-Isopropyltoluene	13.723	119	194150	17.834	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	100453	17.822	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	101087	18.152	ug/l	98
85) n-Butylbenzene	14.053	91	170458	17.548	ug/l	99
86) Hexachloroethane	14.329	117	31617	17.761	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	97757	18.227	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13810	19.895	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	47051	19.249	ug/l	99
90) Hexachlorobutadiene	15.494	225	18240	18.525	ug/l	98
91) Naphthalene	15.635	128	169342	19.351	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	47051	19.249	ug/l	99

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

