

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30974	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185020	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	89958	29.776	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.847	95	97314	29.820	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.400%		
63) Toluene-d8	10.565	98	281589	30.431	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.433%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	48008	19.345	ug/l	100
3) Chloromethane	2.359	50	63879	18.624	ug/l	100
4) Vinyl Chloride	2.512	62	62095	19.006	ug/l	100
5) Bromomethane	2.965	94	30452	18.686	ug/l	100
6) Chloroethane	3.124	64	38415	18.620	ug/l	100
7) Trichlorofluoromethane	3.501	101	66215	18.683	ug/l	100
8) Diethyl Ether	3.959	74	30487	18.653	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41257	18.878	ug/l	100
10) 1,1-Dichloroethene	4.342	96	44299	18.782	ug/l	100
11) Methyl Iodide	4.589	142	50856	18.760	ug/l	100
12) Methyl Acetate	5.024	43	61331	18.414	ug/l	100
13) Acrolein	4.177	56	27873	73.623	ug/l	100
14) Acrylonitrile	5.718	53	132407	94.169	ug/l	100
15) Acetone	4.424	58	33967	95.196	ug/l	95
16) Carbon Disulfide	4.712	76	129547	19.155	ug/l	100
17) Allyl chloride	5.024	41	76657	18.648	ug/l	100
18) Methylene Chloride	5.277	84	49299	18.333	ug/l	100
19) trans-1,2-Dichloroethene	5.789	96	45854	21.553	ug/l	100
20) Diisopropyl ether	6.671	45	167099	18.905	ug/l	100
21) 1,1-Dichloroethane	6.565	63	89726	19.030	ug/l	100
22) cis-1,2-Dichloroethene	7.489	96	55538	18.766	ug/l	100
23) tert-Butyl Alcohol	5.512	59	56269	96.582	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	158818	18.690	ug/l	100
25) Chloroform	7.965	83	84511	18.796	ug/l	100
26) Cyclohexane	8.253	56	81442	18.462	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	63403	19.129	ug/l	100
30) 2-Butanone	7.483	43	178630	97.263	ug/l	100
31) 2,2-Dichloropropane	7.489	77	78733	19.298	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72230	18.945	ug/l	100
33) Carbon Tetrachloride	8.359	117	58240	19.114	ug/l	100
34) Benzene	8.606	78	201431	19.103	ug/l	100
35) Methacrylonitrile	7.777	41	39241	18.953	ug/l	100
36) 1,2-Dichloroethane	8.671	62	63104	19.124	ug/l	100
37) Trichloroethene	9.353	130	48886	19.215	ug/l	100
38) Methylcyclohexane	9.600	83	75994	18.695	ug/l	100
39) 1,2-Dichloropropane	9.618	63	49925	19.028	ug/l	100
40) Dibromomethane	9.706	93	32130	18.960	ug/l	100
41) Bromodichloromethane	9.882	83	69713	19.149	ug/l	100
42) Vinyl Acetate	6.600	43	616622	98.633	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	72635	19.607	ug/l	100
44) Isopropyl Acetate	8.683	43	129543	18.850	ug/l	100
45) 1,4-Dioxane	9.694	88	21134	386.736	ug/l	100
46) Methyl methacrylate	9.677	41	58112	19.192	ug/l	100
47) n-amyl Acetate	12.488	43	101635	18.304	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	78104	18.977	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	83505	19.170	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45892	19.308	ug/l	100
51) Ethyl methacrylate	10.871	69	84042	19.027	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79960	18.875	ug/l	100
53) Dibromochloromethane	11.353	129	49892	19.190	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45668	19.034	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	199584	119.582	ug/l	100
56) Bromoform	12.576	173	32612	19.173	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	366576	98.554	ug/l	100
59) 2-Hexanone	11.194	43	271384	97.984	ug/l	100
61) Tetrachloroethene	11.100	164	46313	19.134	ug/l	100
62) Toluene	10.629	91	212088	19.292	ug/l	100
64) Chlorobenzene	11.888	112	128877	19.188	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	42656	19.244	ug/l	100
66) Ethyl Benzene	11.959	91	233805	19.177	ug/l	100
67) m/p-Xylenes	12.071	106	172384	38.024	ug/l	100
68) o-Xylene	12.394	106	85173	19.101	ug/l	100
69) Styrene	12.406	104	141327	18.793	ug/l	100
70) Isopropylbenzene	12.694	105	209526	19.057	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	60936	19.472	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	61888m	13.969	ug/l	
73) Bromobenzene	12.976	156	46561	19.116	ug/l	100
74) n-propylbenzene	13.029	91	243573	18.707	ug/l	100
75) 2-Chlorotoluene	13.123	91	154341	18.914	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	172014	19.046	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	28529	18.993	ug/l	100
78) 4-Chlorotoluene	13.218	91	151091	18.539	ug/l	100
79) tert-butylbenzene	13.435	119	147428	18.865	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174827	19.089	ug/l	100
81) sec-Butylbenzene	13.612	105	208583	19.134	ug/l	100
82) p-Isopropyltoluene	13.723	119	173120	19.037	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	84482	18.662	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	84947	18.705	ug/l	100
85) n-Butylbenzene	14.053	91	155208	18.919	ug/l	100
86) Hexachloroethane	14.329	117	29008	18.910	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	85009	19.018	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14031	19.684	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100
90) Hexachlorobutadiene	15.500	225	18215	19.398	ug/l	100
91) Naphthalene	15.635	128	169118	19.722	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100

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

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