

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086380.D
 Acq On : 23 Apr 2025 13:17
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Quant Time: Apr 24 04:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	29674	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	179504	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	166876	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	87437	30.562	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.867%			
60) 4-Bromofluorobenzene	12.847	95	97641	29.770	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.233%			
63) Toluene-d8	10.565	98	276249	30.090	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	107358	52.404	ug/l	97
3) Chloromethane	2.359	50	144331	49.597	ug/l	97
4) Vinyl Chloride	2.518	62	141400	50.732	ug/l	98
5) Bromomethane	2.959	94	72424	49.770	ug/l	98
6) Chloroethane	3.124	64	91726	49.365	ug/l	99
7) Trichlorofluoromethane	3.501	101	162157	49.289	ug/l	100
8) Diethyl Ether	3.959	74	70750	50.946	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	102250	50.555	ug/l	98
10) 1,1-Dichloroethene	4.342	96	102780	49.648	ug/l	98
11) Methyl Iodide	4.589	142	122357	50.515	ug/l	98
12) Methyl Acetate	5.018	43	151436	51.610	ug/l	99
13) Acrolein	4.183	56	29683	249.109	ug/l	99
14) Acrylonitrile	5.712	53	278286	254.827	ug/l	99
15) Acetone	4.424	58	77690	258.174	ug/l	92
16) Carbon Disulfide	4.712	76	274340	50.292	ug/l	99
17) Allyl chloride	5.018	41	163484	49.389	ug/l	98
18) Methylene Chloride	5.277	84	116658	49.484	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	108013	48.952	ug/l	98
20) Diisopropyl ether	6.665	45	393007	49.935	ug/l	97
21) 1,1-Dichloroethane	6.565	63	213535	49.565	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	135327	49.048	ug/l	98
23) tert-Butyl Alcohol	5.506	59	106272m	251.207	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	383808	50.180	ug/l	99
25) Chloroform	7.965	83	214558	49.209	ug/l	98
26) Cyclohexane	8.253	56	188609	49.583	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	155965	49.286	ug/l	99
30) 2-Butanone	7.477	43	383786	249.867	ug/l	99
31) 2,2-Dichloropropane	7.488	77	198189	48.720	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	184336	48.747	ug/l	98
33) Carbon Tetrachloride	8.359	117	152652	49.037	ug/l	96
34) Benzene	8.600	78	490952	48.778	ug/l	97
35) Methacrylonitrile	7.777	41	86813	49.548	ug/l	98
36) 1,2-Dichloroethane	8.665	62	158575	48.526	ug/l	100
37) Trichloroethene	9.347	130	124838	49.545	ug/l	94
38) Methylcyclohexane	9.594	83	181341	49.617	ug/l	100
39) 1,2-Dichloropropane	9.618	63	120306	48.383	ug/l	92
40) Dibromomethane	9.706	93	80581	48.459	ug/l	98
41) Bromodichloromethane	9.882	83	173091	49.189	ug/l	99
42) Vinyl Acetate	6.600	43	1338201	251.508	ug/l	100

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43) Ethyl Acetate	7.553	43	144287	47.469	ug/l	98
44) Isopropyl Acetate	8.683	43	280778	48.670	ug/l	100
45) 1,4-Dioxane	9.688	88	46027	1022.574	ug/l	96
46) Methyl methacrylate	9.677	41	131270	49.330	ug/l	98
47) n-amyl Acetate	12.488	43	239987	48.807	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	192520	48.936	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	203961	49.162	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	112938	48.624	ug/l	97
51) Ethyl methacrylate	10.871	69	200784	49.636	ug/l	99
52) 1,3-Dichloropropane	11.159	76	201557	49.100	ug/l	99
53) Dibromochloromethane	11.353	129	128697	49.346	ug/l	98
54) 1,2-Dibromoethane	11.465	107	115855	49.058	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	471469	247.901	ug/l	99
56) Bromoform	12.576	173	82968	49.022	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	796619	246.686	ug/l	99
59) 2-Hexanone	11.194	43	584307	245.533	ug/l	99
61) Tetrachloroethene	11.100	164	122738	48.223	ug/l	95
62) Toluene	10.624	91	545929	48.875	ug/l	100
64) Chlorobenzene	11.888	112	339409	48.765	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	113702	48.858	ug/l	99
66) Ethyl Benzene	11.959	91	612399	48.707	ug/l	100
67) m/p-Xylenes	12.065	106	462741	96.999	ug/l	99
68) o-Xylene	12.394	106	226822	48.560	ug/l	98
69) Styrene	12.406	104	389200	49.159	ug/l	100
70) Isopropylbenzene	12.694	105	570012	48.886	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	149879	48.818	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	132411m	49.772	ug/l	
73) Bromobenzene	12.976	156	131410	49.022	ug/l	99
74) n-propylbenzene	13.029	91	685930	49.506	ug/l	100
75) 2-Chlorotoluene	13.123	91	422956	48.900	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	471082	49.239	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	66192	48.728	ug/l	99
78) 4-Chlorotoluene	13.218	91	424764	49.115	ug/l	100
79) tert-butylbenzene	13.435	119	401738	49.030	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	481487	49.278	ug/l	98
81) sec-Butylbenzene	13.612	105	576401	49.282	ug/l	99
82) p-Isopropyltoluene	13.723	119	486348	49.693	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	253600	50.046	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	247938	49.523	ug/l	99
85) n-Butylbenzene	14.053	91	437654	50.116	ug/l	99
86) Hexachloroethane	14.329	117	78086	48.794	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	239253	49.621	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	31467	50.425	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	115517	52.567	ug/l	99
90) Hexachlorobutadiene	15.494	225	45907	51.862	ug/l	98
91) Naphthalene	15.635	128	416250	52.908	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	115517	52.567	ug/l	99

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

