

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086376.D
 Acq On : 23 Apr 2025 10:57
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 24 04:23:38 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	11862	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	69437	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	63916	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	34906	30.522	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.733%			
60) 4-Bromofluorobenzene	12.847	95	37942	30.203	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.667%			
63) Toluene-d8	10.565	98	108036	30.724	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.400%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	62095	75.824	ug/l	98
3) Chloromethane	2.359	50	87795	75.471	ug/l	97
4) Vinyl Chloride	2.518	62	84710	76.030	ug/l	100
5) Bromomethane	2.959	94	45317	77.906	ug/l	96
6) Chloroethane	3.124	64	55384	74.564	ug/l	96
7) Trichlorofluoromethane	3.501	101	95240	72.419	ug/l	99
8) Diethyl Ether	3.959	74	40693	73.303	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	58145	71.916	ug/l	98
10) 1,1-Dichloroethene	4.342	96	60388	72.974	ug/l	95
11) Methyl Iodide	4.589	142	74782	77.234	ug/l	100
12) Methyl Acetate	5.024	43	87299	74.428	ug/l	97
13) Acrolein	4.177	56	16251	355.386	ug/l	96
14) Acrylonitrile	5.712	53	170864	391.402	ug/l	100
15) Acetone	4.424	58	41724	346.858	ug/l	94
16) Carbon Disulfide	4.712	76	166254	76.243	ug/l	97
17) Allyl chloride	5.024	41	97736	73.864	ug/l	95
18) Methylene Chloride	5.271	84	71345	75.706	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	64601	73.241	ug/l	94
20) Diisopropyl ether	6.671	45	225395	71.641	ug/l	97
21) 1,1-Dichloroethane	6.571	63	126406	73.399	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	81190	73.614	ug/l	98
23) tert-Butyl Alcohol	5.512	59	68563	405.435	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	223875	73.222	ug/l	99
25) Chloroform	7.965	83	127422	73.108	ug/l	99
26) Cyclohexane	8.253	56	110055	72.376	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	88931	72.649	ug/l	99
30) 2-Butanone	7.477	43	227570	383.017	ug/l	100
31) 2,2-Dichloropropane	7.489	77	113875	72.367	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	108658	74.281	ug/l	99
33) Carbon Tetrachloride	8.359	117	87746	72.867	ug/l	99
34) Benzene	8.600	78	293359	75.347	ug/l	97
35) Methacrylonitrile	7.777	41	51676	76.245	ug/l	96
36) 1,2-Dichloroethane	8.665	62	97403	77.054	ug/l	99
37) Trichloroethene	9.347	130	69973	71.790	ug/l	93
38) Methylcyclohexane	9.594	83	108000	76.391	ug/l	99
39) 1,2-Dichloropropane	9.618	63	71908	74.760	ug/l	95
40) Dibromomethane	9.706	93	48198	74.930	ug/l	96
41) Bromodichloromethane	9.883	83	102621	75.389	ug/l	98
42) Vinyl Acetate	6.600	43	804778	391.011	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	88205	75.017	ug/l	95
44) Isopropyl Acetate	8.683	43	169581	75.991	ug/l	100
45) 1,4-Dioxane	9.688	88	28757	1651.615	ug/l	93
46) Methyl methacrylate	9.677	41	77502	75.291	ug/l	100
47) n-amyl Acetate	12.488	43	138197	72.657	ug/l	99
48) t-1,3-Dichloropropene	10.830	75	114069	74.956	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	119618	74.536	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	67413	75.031	ug/l	98
51) Ethyl methacrylate	10.871	69	115746	73.970	ug/l	99
52) 1,3-Dichloropropane	11.159	76	120207	75.700	ug/l	99
53) Dibromochloromethane	11.353	129	74841	74.183	ug/l	98
54) 1,2-Dibromoethane	11.465	107	67963	74.396	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	31544	42.877	ug/l	99
56) Bromoform	12.576	173	47975	73.279	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	477113	385.744	ug/l	99
59) 2-Hexanone	11.188	43	353145	387.442	ug/l	100
61) Tetrachloroethene	11.100	164	70658	72.481	ug/l	98
62) Toluene	10.630	91	316128	73.892	ug/l	100
64) Chlorobenzene	11.888	112	195149	73.205	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	65207	73.155	ug/l	99
66) Ethyl Benzene	11.959	91	349954	72.670	ug/l	99
67) m/p-Xylenes	12.071	106	264965	145.012	ug/l	99
68) o-Xylene	12.394	106	130809	73.116	ug/l	97
69) Styrene	12.406	104	218955	72.205	ug/l	100
70) Isopropylbenzene	12.688	105	328024	73.450	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	92193	78.402	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	76363m	74.942	ug/l	
73) Bromobenzene	12.976	156	75280	73.321	ug/l	99
74) n-propylbenzene	13.029	91	390207	73.528	ug/l	99
75) 2-Chlorotoluene	13.123	91	242971	73.342	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	271539	74.102	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	39045	75.044	ug/l	97
78) 4-Chlorotoluene	13.218	91	240348	72.559	ug/l	100
79) tert-butylbenzene	13.435	119	234572	74.745	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	273505	73.084	ug/l	98
81) sec-Butylbenzene	13.612	105	339274	75.735	ug/l	100
82) p-Isopropyltoluene	13.723	119	279394	74.534	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	139120	71.680	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	139291	72.639	ug/l	98
85) n-Butylbenzene	14.053	91	246584	73.721	ug/l	99
86) Hexachloroethane	14.329	117	45232	73.794	ug/l	97
87) 1,2-Dichlorobenzene	14.100	146	135076	73.143	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	17406	72.824	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	63112	74.983	ug/l	98
90) Hexachlorobutadiene	15.500	225	25210	74.358	ug/l	96
91) Naphthalene	15.635	128	228296	75.762	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	63112	74.983	ug/l	98

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

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