

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040425\
 Data File : VN086226.D
 Acq On : 04 Apr 2025 12:02
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 04 23:44:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 04 23:41:25 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/07/2025
 Supervised By : Mahesh Dadoda 04/07/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	21086	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	115744	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	109674	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	61937	29.268	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.567%		
60) 4-Bromofluorobenzene	12.847	95	64126	31.381	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.600%		
63) Toluene-d8	10.565	98	182717	29.864	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.533%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	94649	66.239	ug/l	98
3) Chloromethane	2.365	50	93866	60.476	ug/l	100
4) Vinyl Chloride	2.518	62	93227	64.494	ug/l	98
5) Bromomethane	2.965	94	46019	61.385	ug/l	97
6) Chloroethane	3.124	64	54480	63.155	ug/l	97
7) Trichlorofluoromethane	3.501	101	121912	63.005	ug/l	92
8) Diethyl Ether	3.953	74	41376	64.157	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	65291	60.666	ug/l	99
10) 1,1-Dichloroethene	4.342	96	66054	62.881	ug/l	87
11) Methyl Iodide	4.595	142	85124	63.176	ug/l	98
12) Methyl Acetate	5.024	43	71301	51.368	ug/l	97
13) Acrolein	4.183	56	56408	372.047	ug/l	99
14) Acrylonitrile	5.718	53	172332	318.494	ug/l	99
15) Acetone	4.424	58	46594	276.033	ug/l	98
16) Carbon Disulfide	4.712	76	199504	59.286	ug/l	97
17) Allyl chloride	5.024	41	91174	62.398	ug/l	91
18) Methylene Chloride	5.277	84	75268	59.759	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	72012	63.478	ug/l	96
20) Diisopropyl ether	6.665	45	201737	65.769	ug/l	98
21) 1,1-Dichloroethane	6.565	63	129326	61.859	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	83863	62.329	ug/l	97
23) tert-Butyl Alcohol	5.512	59	62326	315.445	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	228155	66.491	ug/l	99
25) Chloroform	7.965	83	137321	62.592	ug/l	99
26) Cyclohexane	8.259	56	104278	61.965	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	93300	64.237	ug/l	96
30) 2-Butanone	7.477	43	205834	322.367	ug/l #	93
31) 2,2-Dichloropropane	7.489	77	118996	66.494	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	125330	63.810	ug/l	99
33) Carbon Tetrachloride	8.359	117	108363	64.688	ug/l	98
34) Benzene	8.606	78	303815	62.998	ug/l	98
35) Methacrylonitrile	7.771	41	44806	62.850	ug/l	98
36) 1,2-Dichloroethane	8.665	62	101752	63.527	ug/l #	89
37) Trichloroethene	9.347	130	75272	65.172	ug/l	91
38) Methylcyclohexane	9.600	83	103326	67.801	ug/l	98
39) 1,2-Dichloropropane	9.618	63	70196	62.816	ug/l	94
40) Dibromomethane	9.706	93	51429	62.368	ug/l	96
41) Bromodichloromethane	9.888	83	106381	64.229	ug/l	99
42) Vinyl Acetate	6.600	43	738234	324.442	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	84209	64.143	ug/l #	85
44) Isopropyl Acetate	8.683	43	142523	60.144	ug/l	100
45) 1,4-Dioxane	9.688	88	30151	1387.968	ug/l	95
46) Methyl methacrylate	9.677	41	63532	65.457	ug/l	94
47) n-amyl Acetate	12.488	43	117419	72.521	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	112015	65.631	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	119000	64.531	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	70797	65.669	ug/l	97
51) Ethyl methacrylate	10.871	69	108134	70.652	ug/l	98
52) 1,3-Dichloropropane	11.159	76	121706	64.797	ug/l	98
53) Dibromochloromethane	11.359	129	80653	64.254	ug/l	96
54) 1,2-Dibromoethane	11.465	107	70791	63.998	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	145906	207.902	ug/l	99
56) Bromoform	12.576	173	55722	65.618	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	427258	330.096	ug/l	99
59) 2-Hexanone	11.194	43	315536	339.627	ug/l	99
61) Tetrachloroethene	11.100	164	81537	63.701	ug/l	91
62) Toluene	10.629	91	318884	63.692	ug/l	99
64) Chlorobenzene	11.888	112	198687	63.604	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	72387	62.971	ug/l	99
66) Ethyl Benzene	11.959	91	337065	64.879	ug/l	99
67) m/p-Xylenes	12.071	106	272961	133.090	ug/l	97
68) o-Xylene	12.394	106	131636	66.492	ug/l	99
69) Styrene	12.406	104	222765	70.563	ug/l	100
70) Isopropylbenzene	12.694	105	324019	65.581	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	86961	60.680	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	81077m	58.596	ug/l	
73) Bromobenzene	12.976	156	83339	65.461	ug/l	98
74) n-propylbenzene	13.029	91	385970	68.240	ug/l	99
75) 2-Chlorotoluene	13.123	91	246159	65.352	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	281336	67.539	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	36551	66.229	ug/l	100
78) 4-Chlorotoluene	13.218	91	248843	66.617	ug/l	100
79) tert-butylbenzene	13.435	119	240440	70.047	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	286026	68.433	ug/l	98
81) sec-Butylbenzene	13.612	105	334779	71.210	ug/l	99
82) p-Isopropyltoluene	13.729	119	284018	73.839	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	152114	65.781	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	149564	66.266	ug/l	99
85) n-Butylbenzene	14.053	91	238964	76.943	ug/l	99
86) Hexachloroethane	14.329	117	46451	68.149	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	149791	66.135	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.712	75	20501	67.235	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	74584	67.687	ug/l	98
90) Hexachlorobutadiene	15.494	225	42882	70.994	ug/l	98
91) Naphthalene	15.635	128	238787	66.865	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	74584	67.687	ug/l	98

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

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