

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020923\
 Data File : VN076596.D
 Acq On : 09 Feb 2023 18:38
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/10/2023
 Supervised By : Semsettin Yesilyurt 02/10/2023

Quant Time: Feb 10 05:14:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:08:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.822	128	29765	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	203121	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.868	117	220719	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	95807	27.310	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.033%		
60) 4-Bromofluorobenzene	12.851	95	147285	29.558	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.533%		
63) Toluene-d8	10.569	98	238361	29.412	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.033%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.140	85	417375	101.310	ug/l	98
3) Chloromethane	2.375	50	432980	87.407	ug/l	98
4) Vinyl Chloride	2.528	62	367126	84.881	ug/l	98
5) Bromomethane	2.934	94	182658	84.119	ug/l	89
6) Chloroethane	3.116	64	195221	100.280	ug/l	92
7) Trichlorofluoromethane	3.498	101	688039	93.682	ug/l	95
8) Diethyl Ether	3.969	74	240552	103.265	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.387	101	347579	98.316	ug/l	98
10) 1,1-Dichloroethene	4.351	96	332125	99.968	ug/l #	77
11) Methyl Iodide	4.598	142	492326	101.912	ug/l	85
12) Methyl Acetate	5.034	43	677091	97.117	ug/l	95
13) Acrolein	4.187	56	446177	499.643	ug/l	98
14) Acrylonitrile	5.728	53	1016252	497.531	ug/l	97
15) Acetone	4.434	58	266076	451.403	ug/l #	57
16) Carbon Disulfide	4.722	76	955077	104.601	ug/l	98
17) Allyl chloride	5.034	41	644659	100.652	ug/l	93
18) Methylene Chloride	5.287	84	374335	95.218	ug/l	86
19) trans-1,2-Dichloroethene	5.792	96	345354	101.147	ug/l	88
20) Diisopropyl ether	6.681	45	1358280	92.905	ug/l	94
21) 1,1-Dichloroethane	6.581	63	729459	91.497	ug/l	100
22) cis-1,2-Dichloroethene	7.498	96	404372	98.881	ug/l	89
23) tert-Butyl Alcohol	5.539	59	371221	541.598	ug/l #	100
24) Methyl tert-Butyl Ether	5.804	73	1243668	103.904	ug/l	94
25) Chloroform	7.975	83	738854	93.658	ug/l	97
26) Cyclohexane	8.263	56	666430	94.200	ug/l #	97
29) 1,1-Dichloropropene	8.375	75	550985	104.797	ug/l	94
30) 2-Butanone	7.492	43	1443915	508.787	ug/l	96
31) 2,2-Dichloropropane	7.498	77	593867	108.790	ug/l	94
32) 1,1,1-Trichloroethane	8.175	97	673475	103.243	ug/l	98
33) Carbon Tetrachloride	8.369	117	582712	103.538	ug/l	96
34) Benzene	8.616	78	1539511	95.298	ug/l #	91
35) Methacrylonitrile	7.786	41	341472	104.646	ug/l	90
36) 1,2-Dichloroethane	8.675	62	633823	102.313	ug/l #	95
37) Trichloroethene	9.357	130	362034	109.456	ug/l	88
38) Methylcyclohexane	9.604	83	652128	112.061	ug/l	92
39) 1,2-Dichloropropane	9.627	63	405646	105.220	ug/l	98
40) Dibromomethane	9.710	93	268290	105.782	ug/l	96
41) Bromodichloromethane	9.892	83	586780	110.034	ug/l #	98
42) Vinyl Acetate	6.616	43	4852434m	525.968	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	600669	103.810	ug/l	97
44) Isopropyl Acetate	8.692	43	995666	104.598	ug/l	99
45) 1,4-Dioxane	9.698	88	163513	2107.202	ug/l #	87
46) Methyl methacrylate	9.686	41	503889	109.789	ug/l	85
47) n-amyl Acetate	12.498	43	923292	114.112	ug/l	96
48) t-1,3-Dichloropropene	10.839	75	635189	118.328	ug/l	98
49) cis-1,3-Dichloropropene	10.316	75	669113	112.758	ug/l #	88
50) 1,1,2-Trichloroethane	11.016	97	364545	105.837	ug/l	96
51) Ethyl methacrylate	10.874	69	636742	116.422	ug/l	90
52) 1,3-Dichloropropane	11.163	76	676621	105.383	ug/l	100
53) Dibromochloromethane	11.363	129	411239	114.900	ug/l	96
54) 1,2-Dibromoethane	11.474	107	377234	108.232	ug/l	99
55) 2-Chloroethyl vinyl ether	10.163	63	1376619	551.047	ug/l	99
56) Bromoform	12.580	173	275865	119.675	ug/l	98
58) 4-Methyl-2-Pentanone	10.445	43	2992780	485.042	ug/l	97
59) 2-Hexanone	11.198	43	2240789	499.485	ug/l	94
61) Tetrachloroethene	11.104	164	285404	101.157	ug/l	98
62) Toluene	10.633	91	1615617	98.728	ug/l	98
64) Chlorobenzene	11.892	112	969365	102.256	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.963	131	362650	100.908	ug/l	98
66) Ethyl Benzene	11.968	91	1879156	104.747	ug/l	98
67) m/p-Xylenes	12.074	106	1396246	207.434	ug/l	93
68) o-Xylene	12.398	106	694401	104.715	ug/l	96
69) Styrene	12.415	104	1139425	108.251	ug/l	94
70) Isopropylbenzene	12.698	105	1851546	104.191	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.939	83	564299	91.080	ug/l	97
72) 1,2,3-Trichloropropane	12.998	75	504751m	89.460	ug/l	
73) Bromobenzene	12.980	156	389828	92.447	ug/l	95
74) n-propylbenzene	13.039	91	2275551	99.840	ug/l	99
75) 2-Chlorotoluene	13.127	91	1361087	94.934	ug/l	95
76) 1,3,5-Trimethylbenzene	13.174	105	1622879	97.796	ug/l	96
77) t-1,4-Dichloro-2-butene	12.739	75	192440	112.749	ug/l	84
78) 4-Chlorotoluene	13.221	91	1380578	95.768	ug/l	93
79) tert-butylbenzene	13.439	119	1391636	98.800	ug/l	90
80) 1,2,4-Trimethylbenzene	13.486	105	1616190	98.755	ug/l	95
81) sec-Butylbenzene	13.621	105	2010193	101.921	ug/l	99
82) p-Isopropyltoluene	13.733	119	1661002	104.811	ug/l	96
83) 1,3-Dichlorobenzene	13.739	146	780379	100.056	ug/l	97
84) 1,4-Dichlorobenzene	13.815	146	775925	99.715	ug/l	97
85) n-Butylbenzene	14.062	91	1563844	106.265	ug/l	99
86) Hexachloroethane	14.339	117	307748	100.013	ug/l	94
87) 1,2-Dichlorobenzene	14.109	146	779261	91.017	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.721	75	139371	110.353	ug/l	81
89) 1,2,4-Trichlorobenzene	15.398	180	431143	120.745	ug/l	99
90) Hexachlorobutadiene	15.503	225	194809	112.933	ug/l	98
91) Naphthalene	15.645	128	1466977	120.412	ug/l	99
92) 1,2,3-Trichlorobenzene	15.845	180	411453	115.453	ug/l	96

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

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