

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077269.D
 Acq On : 07 Apr 2023 10:22
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 07 11:19:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 10:13:15 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

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

Internal Standards						
1) Bromochloromethane	7.825	128	62933	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	469886	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	519769	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	156552	27.064	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.200%#		
60) 4-Bromofluorobenzene	12.854	95	280196	28.483	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.933%		
63) Toluene-d8	10.566	98	542174	29.657	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	275374	34.194	ug/l	97
3) Chloromethane	2.372	50	349133	47.432	ug/l	98
4) Vinyl Chloride	2.519	62	516973	77.019	ug/l	95
5) Bromomethane	2.949	94	343672	80.064	ug/l	89
6) Chloroethane	3.119	64	351770	89.186	ug/l	96
7) Trichlorofluoromethane	3.502	101	471677	37.616	ug/l	98
8) Diethyl Ether	3.966	74	204221	43.428	ug/l	68
9) 1,1,2-Trichlorotrifluo...	4.378	101	303706	42.752	ug/l	98
10) 1,1-Dichloroethene	4.349	96	296877	43.057	ug/l	81
11) Methyl Iodide	4.601	142	375191	45.160	ug/l	91
12) Methyl Acetate	5.031	43	463254	40.849	ug/l #	87
13) Acrolein	4.190	56	288184	171.891	ug/l	100
14) Acrylonitrile	5.725	53	797125	213.373	ug/l	99
15) Acetone	4.437	58	298757	293.848	ug/l	79
16) Carbon Disulfide	4.719	76	789926	41.317	ug/l	99
17) Allyl chloride	5.031	41	383684	37.101	ug/l	82
18) Methylene Chloride	5.290	84	346145	42.919	ug/l #	78
19) trans-1,2-Dichloroethene	5.790	96	331046	45.565	ug/l	86
20) Diisopropyl ether	6.678	45	934037	40.035	ug/l #	83
21) 1,1-Dichloroethane	6.578	63	605321	43.599	ug/l	98
22) cis-1,2-Dichloroethene	7.490	96	409758	49.214	ug/l	88
23) tert-Butyl Alcohol	5.525	59	352680	325.056	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	1106398	49.217	ug/l #	89
25) Chloroform	7.972	83	650910	45.639	ug/l	98
26) Cyclohexane	8.260	56	521869	41.169	ug/l #	76
29) 1,1-Dichloropropene	8.378	75	483168	43.656	ug/l	96
30) 2-Butanone	7.490	43	1155728	228.881	ug/l #	86
31) 2,2-Dichloropropane	7.495	77	582975	53.165	ug/l #	60
32) 1,1,1-Trichloroethane	8.172	97	591083	45.786	ug/l	94
33) Carbon Tetrachloride	8.366	117	505833	44.314	ug/l	98
34) Benzene	8.607	78	1486320	43.805	ug/l	96
35) Methacrylonitrile	7.784	41	213906	37.647	ug/l	81
36) 1,2-Dichloroethane	8.672	62	460901	40.526	ug/l	97
37) Trichloroethene	9.354	130	362453	43.341	ug/l	98
38) Methylcyclohexane	9.601	83	649185	47.124	ug/l	91
39) 1,2-Dichloropropane	9.625	63	367848	42.194	ug/l	95
40) Dibromomethane	9.713	93	264898	47.695	ug/l	96
41) Bromodichloromethane	9.889	83	528285	46.413	ug/l	98
42) Vinyl Acetate	6.613	43	3340075m	212.202	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	416865	40.914	ug/l	97
44) Isopropyl Acetate	8.689	43	759169m	45.964	ug/l	
45) 1,4-Dioxane	9.695	88	164360	1182.900	ug/l #	87
46) Methyl methacrylate	9.684	41	322192	40.057	ug/l	79
47) n-amyl Acetate	12.495	43	691201	51.424	ug/l	97
48) t-1,3-Dichloropropene	10.836	75	609576	53.469	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	630373	48.682	ug/l #	88
50) 1,1,2-Trichloroethane	11.019	97	387654	47.643	ug/l	95
51) Ethyl methacrylate	10.878	69	616969	51.435	ug/l	82
52) 1,3-Dichloropropane	11.166	76	644736	45.876	ug/l	100
53) Dibromochloromethane	11.360	129	420325	50.637	ug/l	98
54) 1,2-Dibromoethane	11.472	107	395382	50.356	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	951336	226.203	ug/l	97
56) Bromoform	12.583	173	282858	50.935	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	2345724	223.402	ug/l #	85
59) 2-Hexanone	11.195	43	1806207	242.153	ug/l #	86
61) Tetrachloroethene	11.107	164	289400	35.270	ug/l	95
62) Toluene	10.631	91	1703599	47.566	ug/l	100
64) Chlorobenzene	11.895	112	1043757	49.509	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	392337	49.547	ug/l	94
66) Ethyl Benzene	11.966	91	1939084	49.868	ug/l	97
67) m/p-Xylenes	12.072	106	1530336	103.898	ug/l	100
68) o-Xylene	12.401	106	764840	53.187	ug/l	95
69) Styrene	12.413	104	1249402	53.570	ug/l	99
70) Isopropylbenzene	12.695	105	1953763	52.217	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	593668	52.623	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	412059m	39.816	ug/l	
73) Bromobenzene	12.983	156	391843	46.408	ug/l	91
74) n-propylbenzene	13.036	91	2216731	50.192	ug/l	98
75) 2-Chlorotoluene	13.130	91	1301034	47.635	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	1649720	50.940	ug/l	94
77) t-1,4-Dichloro-2-butene	12.736	75	214255	67.821	ug/l	83
78) 4-Chlorotoluene	13.224	91	1257759	47.772	ug/l	97
79) tert-butylbenzene	13.442	119	1397169	51.590	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	1611161	50.624	ug/l	98
81) sec-Butylbenzene	13.619	105	2035779	52.539	ug/l	99
82) p-Isopropyltoluene	13.730	119	1660395	53.019	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	770143	49.297	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	747729	49.273	ug/l	96
85) n-Butylbenzene	14.060	91	1410214	53.125	ug/l	99
86) Hexachloroethane	14.336	117	338062	60.459	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	750114	48.149	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	114578	52.145	ug/l	90
89) 1,2,4-Trichlorobenzene	15.366	180	327581	39.417	ug/l	98
90) Hexachlorobutadiene	15.465	225	155106	35.402	ug/l	96
91) Naphthalene	15.589	128	1271834	48.251	ug/l	99
92) 1,2,3-Trichlorobenzene	15.754	180	311864	37.432	ug/l	98

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

