

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079573.D
 Acq On : 17 Oct 2023 10:57
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Oct 18 02:02:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 01:58:48 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	22288	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	166756	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	209374	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	92917	29.322	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.733%		
60) 4-Bromofluorobenzene	12.853	95	120054	31.355	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.533%		
63) Toluene-d8	10.570	98	262463	29.254	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.500%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	161991	50.118	ug/l	97
3) Chloromethane	2.365	50	201021	47.985	ug/l	99
4) Vinyl Chloride	2.518	62	218649	48.361	ug/l	100
5) Bromomethane	2.947	94	129714	46.272	ug/l	95
6) Chloroethane	3.118	64	143611	45.129	ug/l	98
7) Trichlorofluoromethane	3.500	101	270032	48.946	ug/l	95
8) Diethyl Ether	3.965	74	101663	50.844	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	151437	47.977	ug/l	98
10) 1,1-Dichloroethene	4.341	96	147508	49.118	ug/l	90
11) Methyl Iodide	4.589	142	177126	53.272	ug/l	96
12) Methyl Acetate	5.030	43	355332	49.081	ug/l	98
13) Acrolein	4.183	56	142807	238.626	ug/l	99
14) Acrylonitrile	5.724	53	441127	254.439	ug/l	99
15) Acetone	4.436	58	139537	253.467	ug/l	90
16) Carbon Disulfide	4.718	76	438247	47.857	ug/l	97
17) Allyl chloride	5.030	41	232595	50.235	ug/l	98
18) Methylene Chloride	5.277	84	178187	48.205	ug/l	95
19) trans-1,2-Dichloroethene	5.794	96	167082	49.731	ug/l	97
20) Diisopropyl ether	6.677	45	551751	50.256	ug/l	96
21) 1,1-Dichloroethane	6.571	63	326873	48.996	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	194557	50.277	ug/l	97
23) tert-Butyl Alcohol	5.524	59	135996	234.391	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	517248	51.333	ug/l	100
25) Chloroform	7.971	83	328936	48.796	ug/l	91
26) Cyclohexane	8.259	56	263955	52.340	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	247246	50.736	ug/l	98
30) 2-Butanone	7.482	43	617469	252.777	ug/l	99
31) 2,2-Dichloropropane	7.494	77	274128	49.891	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	284456	49.111	ug/l	99
33) Carbon Tetrachloride	8.365	117	249341	50.616	ug/l	96
34) Benzene	8.612	78	734573	49.613	ug/l	98
35) Methacrylonitrile	7.782	41	134709	52.424	ug/l	95
36) 1,2-Dichloroethane	8.676	62	260037	49.189	ug/l	99
37) Trichloroethene	9.353	130	175135	50.604	ug/l	100
38) Methylcyclohexane	9.606	83	249461	53.168	ug/l	98
39) 1,2-Dichloropropane	9.629	63	195983	50.159	ug/l	98
40) Dibromomethane	9.712	93	128860	50.253	ug/l	98
41) Bromodichloromethane	9.894	83	267779	50.391	ug/l	98
42) Vinyl Acetate	6.606	43	1655111	267.102	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	253920	55.280	ug/l	97
44) Isopropyl Acetate	8.694	43	407810	49.944	ug/l	99
45) 1,4-Dioxane	9.694	88	66834	1045.660	ug/l #	93
46) Methyl methacrylate	9.682	41	193092	53.304	ug/l	95
47) n-amyl Acetate	12.500	43	335853	56.992	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	283767	52.822	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	311100	52.959	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	176015	49.480	ug/l	93
51) Ethyl methacrylate	10.876	69	270205	55.055	ug/l	99
52) 1,3-Dichloropropane	11.170	76	322335	51.149	ug/l	100
53) Dibromochloromethane	11.365	129	191381	52.640	ug/l	98
54) 1,2-Dibromoethane	11.470	107	175619	50.042	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	502279	268.236	ug/l	99
56) Bromoform	12.582	173	127173	52.876	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1251419	256.251	ug/l	99
59) 2-Hexanone	11.200	43	939297	262.173	ug/l	98
61) Tetrachloroethene	11.106	164	141818	49.333	ug/l	97
62) Toluene	10.635	91	800030	49.997	ug/l	99
64) Chlorobenzene	11.894	112	465168	50.122	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.964	131	177864	50.311	ug/l	96
66) Ethyl Benzene	11.964	91	873328	52.971	ug/l	100
67) m/p-Xylenes	12.076	106	647288	106.148	ug/l	96
68) o-Xylene	12.400	106	312482	53.603	ug/l	99
69) Styrene	12.412	104	520711	56.266	ug/l	99
70) Isopropylbenzene	12.700	105	806626	53.917	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	266991	50.191	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	239307m	46.692	ug/l	
73) Bromobenzene	12.982	156	184218	52.418	ug/l	98
74) n-propylbenzene	13.041	91	956440	54.914	ug/l	99
75) 2-Chlorotoluene	13.129	91	575943	53.190	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	665303	54.400	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	81781	55.469	ug/l	94
78) 4-Chlorotoluene	13.223	91	561423	54.877	ug/l	99
79) tert-butylbenzene	13.441	119	533803	54.287	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	662510	55.906	ug/l	99
81) sec-Butylbenzene	13.617	105	766350	55.516	ug/l	100
82) p-Isopropyltoluene	13.735	119	616354	56.288	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	326517	56.501	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	311884	56.295	ug/l	99
85) n-Butylbenzene	14.058	91	512184	59.867	ug/l	98
86) Hexachloroethane	14.335	117	124432	52.564	ug/l	100
87) 1,2-Dichlorobenzene	14.111	146	318693	55.482	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	44146	54.464	ug/l	99
89) 1,2,4-Trichlorobenzene	15.847	180	125715	62.093	ug/l	97
90) Hexachlorobutadiene	15.505	225	73728	51.411	ug/l	99
91) Naphthalene	15.647	128	343183	65.711	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	125715	62.093	ug/l	97

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

