

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069128.D
 Acq On : 22 Oct 2021 11:37
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

Quant Time: Oct 22 12:50:07 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 12:48:50 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	66545	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	393555	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	359673	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	156187	30.755	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.500%			
60) 4-Bromofluorobenzene	12.733	95	181027	31.378	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.600%			
63) Toluene-d8	10.443	98	494397	30.414	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.367%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	93644	28.840	ug/l	97
3) Chloromethane	2.303	50	96355	24.548	ug/l	96
4) Vinyl Chloride	2.445	62	114526	16.456	ug/l	99
5) Bromomethane	2.864	94	83058	12.943	ug/l	98
6) Chloroethane	3.025	64	83557	15.096	ug/l	99
7) Trichlorofluoromethane	3.379	101	151209	23.920	ug/l	99
8) Diethyl Ether	3.829	74	54275	24.586	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.221	101	81456	22.534	ug/l #	70
10) 1,1-Dichloroethene	4.191	96	78740	23.318	ug/l	98
11) Methyl Iodide	4.430	142	104849	24.947	ug/l	94
12) Methyl Acetate	4.856	43	149545	25.109	ug/l	99
13) Acrolein	4.046	56	42919	156.277	ug/l	97
14) Acrylonitrile	5.556	53	211727	113.242	ug/l	98
15) Acetone	4.288	58	76981	141.916	ug/l	100
16) Carbon Disulfide	4.537	76	204778	22.612	ug/l	97
17) Allyl chloride	4.846	41	134519	24.676	ug/l	91
18) Methylene Chloride	5.100	84	93342	22.271	ug/l	99
19) trans-1,2-Dichloroethene	5.605	96	84622	21.609	ug/l	93
20) Diisopropyl ether	6.498	45	284543	22.844	ug/l	97
21) 1,1-Dichloroethane	6.393	63	161440	22.456	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	101276	21.165	ug/l	99
23) tert-Butyl Alcohol	5.366	59	85707	121.491	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	294861	22.348	ug/l	98
25) Chloroform	7.820	83	172385	20.719	ug/l	98
26) Cyclohexane	8.099	56	147705	23.250	ug/l #	97
29) 1,1-Dichloropropene	8.225	75	126161	19.932	ug/l	98
30) 2-Butanone	7.337	43	320734	110.869	ug/l	99
31) 2,2-Dichloropropane	7.329	77	153652	20.954	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	157042	19.550	ug/l	99
33) Carbon Tetrachloride	8.209	117	132430	18.661	ug/l	97
34) Benzene	8.461	78	382621	20.379	ug/l	99
35) Methacrylonitrile	7.635	41	58486	20.655	ug/l	97
36) 1,2-Dichloroethane	8.533	62	135062	19.472	ug/l	98
37) Trichloroethene	9.217	130	96034	19.565	ug/l	95
38) Methylcyclohexane	9.461	83	161287	20.482	ug/l	97
39) 1,2-Dichloropropane	9.494	63	98373	21.012	ug/l	99
40) Dibromomethane	9.579	93	66893	18.539	ug/l	97
41) Bromodichloromethane	9.764	83	132852	18.732	ug/l	96
42) Vinyl Acetate	6.436	43	1076636	101.908	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	121720	20.929	ug/l	98
44) Isopropyl Acetate	8.560	43	221058	21.210	ug/l	99
45) 1,4-Dioxane	9.569	88	34275	411.804	ug/l	95
46) Methyl methacrylate	9.561	41	91712	19.959	ug/l	92
47) n-amyl Acetate	12.390	43	176382	20.073	ug/l	97
48) t-1,3-Dichloropropene	10.719	75	153176	19.606	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	158673	19.860	ug/l	96
50) 1,1,2-Trichloroethane	10.899	97	96068	19.123	ug/l	98
51) Ethyl methacrylate	10.762	69	157862	20.345	ug/l	94
52) 1,3-Dichloropropane	11.046	76	163098	19.855	ug/l	99
53) Dibromochloromethane	11.240	129	99515	17.571	ug/l	99
54) 1,2-Dibromoethane	11.347	107	100021	19.037	ug/l	95
55) 2-Chloroethyl vinyl ether	10.043	63	235701	106.651	ug/l	99
56) Bromoform	12.460	173	69284	16.956	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	637773	103.395	ug/l	98
59) 2-Hexanone	11.087	43	491034	108.662	ug/l	98
61) Tetrachloroethene	10.979	164	81021	19.274	ug/l	99
62) Toluene	10.507	91	439709	20.266	ug/l	98
64) Chlorobenzene	11.773	112	262259	19.733	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	97121	19.025	ug/l	99
66) Ethyl Benzene	11.848	91	488572	19.942	ug/l	97
67) m/p-Xylenes	11.956	106	369335	39.134	ug/l	98
68) o-Xylene	12.283	106	181562	19.509	ug/l	96
69) Styrene	12.296	104	294899	19.197	ug/l	98
70) Isopropylbenzene	12.580	105	475833	19.329	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	144386	20.631	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	111534m	19.402	ug/l	
73) Bromobenzene	12.862	156	107098	19.164	ug/l	95
74) n-propylbenzene	12.921	91	541120	19.221	ug/l	100
75) 2-Chlorotoluene	13.010	91	335074	20.137	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	397207	19.542	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	44673	20.053	ug/l	97
78) 4-Chlorotoluene	13.106	91	319746	19.536	ug/l	96
79) tert-butylbenzene	13.326	119	351119	19.647	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	390202m	19.379	ug/l	
81) sec-Butylbenzene	13.503	105	484143	19.031	ug/l	99
82) p-Isopropyltoluene	13.618	119	388523	18.496	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	184253	17.988	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	177987	18.275	ug/l	99
85) n-Butylbenzene	13.943	91	314357	18.254	ug/l	99
86) Hexachloroethane	14.214	117	72072	18.287	ug/l	93
87) 1,2-Dichlorobenzene	13.991	146	179033	18.808	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	25702	20.702	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	83868	18.122	ug/l	98
90) Hexachlorobutadiene	15.372	225	47165	20.086	ug/l	99
91) Naphthalene	15.507	128	236885	18.529	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	81468	18.535	ug/l	99

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

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