

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068400.D
 Acq On : 3 Sep 2021 11:26
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:38:54 PM

Quant Time: Sep 03 13:02:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:01:16 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	121305	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	637457	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.746	117	578417	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	225807	24.951	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	83.167%	#	
60) 4-Bromofluorobenzene	12.731	95	250260	27.485	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.600%		
63) Toluene-d8	10.443	98	791287	29.951	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.833%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.078	85	134124	20.947	ug/l	99
3) Chloromethane	2.309	50	121931	16.395	ug/l	97
4) Vinyl Chloride	2.451	62	186394	16.352	ug/l	96
5) Bromomethane	2.856	94	171670	17.714	ug/l	94
6) Chloroethane	3.022	64	132230	15.996	ug/l	90
7) Trichlorofluoromethane	3.381	101	244969	12.093	ug/l	98
8) Diethyl Ether	3.832	74	76016	18.523	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.221	101	137242	20.719	ug/l	84
10) 1,1-Dichloroethene	4.189	96	127987	20.651	ug/l	# 79
11) Methyl Iodide	4.433	142	195089	23.258	ug/l	89
12) Methyl Acetate	4.864	43	128375	16.300	ug/l	# 85
13) Acrolein	4.046	56	52363	58.910	ug/l	99
14) Acrylonitrile	5.556	53	261608	77.705	ug/l	98
15) Acetone	4.288	58	85784	90.388	ug/l	# 66
16) Carbon Disulfide	4.543	76	328751	19.988	ug/l	99
17) Allyl chloride	4.846	41	162225m	16.275	ug/l	
18) Methylene Chloride	5.103	84	139595	17.952	ug/l	# 80
19) trans-1,2-Dichloroethene	5.605	96	138974	19.375	ug/l	# 77
20) Diisopropyl ether	6.500	45	355110	15.293	ug/l	# 92
21) 1,1-Dichloroethane	6.393	63	229795	17.490	ug/l	94
22) cis-1,2-Dichloroethene	7.326	96	160159	18.625	ug/l	# 80
23) tert-Butyl Alcohol	5.366	59	94137	71.835	ug/l	# 100
24) Methyl tert-Butyl Ether	5.618	73	417612m	17.521	ug/l	
25) Chloroform	7.820	83	265949	18.129	ug/l	100
26) Cyclohexane	8.102	56	201428	17.430	ug/l	# 76
29) 1,1-Dichloropropene	8.225	75	191124	19.081	ug/l	91
30) 2-Butanone	7.337	43	348525	77.253	ug/l	# 88
31) 2,2-Dichloropropane	7.329	77	217939	18.875	ug/l	93
32) 1,1,1-Trichloroethane	8.018	97	251028	20.051	ug/l	92
33) Carbon Tetrachloride	8.209	117	227076	20.947	ug/l	96
34) Benzene	8.464	78	563460	18.774	ug/l	# 92
35) Methacrylonitrile	7.638	41	63458	13.783	ug/l	88
36) 1,2-Dichloroethane	8.531	62	192823	17.923	ug/l	# 94
37) Trichloroethene	9.220	130	176853	21.635	ug/l	# 78
38) Methylcyclohexane	9.461	83	245961	21.218	ug/l	85
39) 1,2-Dichloropropane	9.491	63	133904	17.936	ug/l	98
40) Dibromomethane	9.577	93	105301	18.889	ug/l	77
41) Bromodichloromethane	9.762	83	204442	18.934	ug/l	98
42) Vinyl Acetate	6.436	43	1289566m	71.224	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	132420	14.083	ug/l #	70
44) Isopropyl Acetate	8.560	43	248902	15.359	ug/l	91
45) 1,4-Dioxane	9.571	88	42425	331.744	ug/l	88
46) Methyl methacrylate	9.561	41	109521	15.419	ug/l	83
47) n-amyl Acetate	12.387	43	164162m	12.437	ug/l	
48) t-1,3-Dichloropropene	10.719	75	197309	16.967	ug/l	96
49) cis-1,3-Dichloropropene	10.191	75	217011	17.702	ug/l #	83
50) 1,1,2-Trichloroethane	10.899	97	149571	19.011	ug/l	95
51) Ethyl methacrylate	10.762	69	190891	16.066	ug/l	82
52) 1,3-Dichloropropane	11.046	76	230682	18.071	ug/l	99
53) Dibromochloromethane	11.239	129	176167	20.402	ug/l	98
54) 1,2-Dibromoethane	11.347	107	153281	18.757	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	54491	24.183	ug/l #	93
56) Bromoform	12.460	173	129399	20.888	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	717332	75.723	ug/l #	89
59) 2-Hexanone	11.087	43	494383	73.984	ug/l	89
61) Tetrachloroethene	10.979	164	184670	23.840	ug/l	90
62) Toluene	10.507	91	666395	19.506	ug/l	99
64) Chlorobenzene	11.771	112	419392	20.096	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.843	131	170917	21.425	ug/l	100
66) Ethyl Benzene	11.846	91	715779	19.003	ug/l	93
67) m/p-Xylenes	11.956	106	589987	40.306	ug/l	78
68) o-Xylene	12.283	106	282835	19.625	ug/l	77
69) Styrene	12.296	104	440722	18.835	ug/l #	91
70) Isopropylbenzene	12.580	105	734281	19.761	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.827	83	193129	18.632	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	159114m	18.279	ug/l	
73) Bromobenzene	12.862	156	195751	22.013	ug/l	52
74) n-propylbenzene	12.921	91	793681	18.996	ug/l	88
75) 2-Chlorotoluene	13.010	91	476153	18.986	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	616746	20.021	ug/l	90
77) t-1,4-Dichloro-2-butene	12.626	75	42833	14.569	ug/l	88
78) 4-Chlorotoluene	13.106	91	459884	18.634	ug/l	82
79) tert-butylbenzene	13.326	119	556975	21.058	ug/l	81
80) 1,2,4-Trimethylbenzene	13.369	105	598361m	19.800	ug/l	
81) sec-Butylbenzene	13.503	105	745469	20.530	ug/l	90
82) p-Isopropyltoluene	13.618	119	635076	20.741	ug/l	89
83) 1,3-Dichlorobenzene	13.616	146	353291	21.480	ug/l	90
84) 1,4-Dichlorobenzene	13.696	146	336844	21.259	ug/l	92
85) n-Butylbenzene	13.943	91	444160	18.112	ug/l	95
86) Hexachloroethane	14.211	117	105077	19.985	ug/l	75
87) 1,2-Dichlorobenzene	13.989	146	336974	21.682	ug/l	91
88) 1,2-Dibromo-3-Chloropr...	14.603	75	30287	16.363	ug/l #	27
89) 1,2,4-Trichlorobenzene	15.265	180	151684	20.519	ug/l	97
90) Hexachlorobutadiene	15.370	225	97343	26.393	ug/l	98
91) Naphthalene	15.507	128	299688	15.682	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	142244	20.292	ug/l	95

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

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