

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070027.D
 Acq On : 13 Dec 2021 11:10
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

Quant Time: Dec 13 13:20:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 13 13:20:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	183508	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1019637	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	952969	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	486968	30.598	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.000%			
60) 4-Bromofluorobenzene	12.731	95	472509	30.984	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.267%			
63) Toluene-d8	10.440	98	1314718	29.879	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	686961	50.661	ug/l	100
3) Chloromethane	2.303	50	760347	53.779	ug/l	96
4) Vinyl Chloride	2.448	62	725197	50.586	ug/l	100
5) Bromomethane	2.856	94	390075	42.485	ug/l	98
6) Chloroethane	3.022	64	420283	46.466	ug/l	99
7) Trichlorofluoromethane	3.379	101	939726	44.722	ug/l	98
8) Diethyl Ether	3.827	74	368902	55.618	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.210	101	546662	56.222	ug/l #	71
10) 1,1-Dichloroethene	4.183	96	523092	57.041	ug/l	85
11) Methyl Iodide	4.422	142	747667	58.516	ug/l	96
12) Methyl Acetate	4.857	43	1307930m	49.523	ug/l	
13) Acrolein	4.041	56	496524	683.790	ug/l	100
14) Acrylonitrile	5.557	53	1896196	263.164	ug/l	100
15) Acetone	4.285	58	730357	304.199	ug/l	77
16) Carbon Disulfide	4.529	76	1572169	68.586	ug/l	98
17) Allyl chloride	4.840	41	1183767	60.734	ug/l	88
18) Methylene Chloride	5.098	84	621576	53.204	ug/l #	85
19) trans-1,2-Dichloroethene	5.597	96	557163	55.365	ug/l #	82
20) Diisopropyl ether	6.498	45	2282587	54.653	ug/l #	93
21) 1,1-Dichloroethane	6.388	63	1192275	56.271	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	656239	52.578	ug/l	89
23) tert-Butyl Alcohol	5.374	59	562627	224.363	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	1887546	51.358	ug/l	95
25) Chloroform	7.817	83	1172731	53.531	ug/l	99
26) Cyclohexane	8.096	56	1116485	55.500	ug/l #	84
29) 1,1-Dichloropropene	8.222	75	869514	55.864	ug/l	95
30) 2-Butanone	7.335	43	3188542	283.019	ug/l #	91
31) 2,2-Dichloropropane	7.327	77	909625	55.280	ug/l	97
32) 1,1,1-Trichloroethane	8.013	97	1012985	55.749	ug/l #	94
33) Carbon Tetrachloride	8.206	117	902757	60.154	ug/l	99
34) Benzene	8.461	78	2602962	54.993	ug/l	99
35) Methacrylonitrile	7.638	41	564361	54.617	ug/l	88
36) 1,2-Dichloroethane	8.531	62	1028777	56.377	ug/l	97
37) Trichloroethene	9.217	130	615915	53.862	ug/l	91
38) Methylcyclohexane	9.459	83	1050352	54.545	ug/l	88
39) 1,2-Dichloropropane	9.488	63	694434	55.395	ug/l	99
40) Dibromomethane	9.577	93	454789	54.169	ug/l	95
41) Bromodichloromethane	9.762	83	963108	61.116	ug/l	95
42) Vinyl Acetate	6.434	43	9044754	284.082	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	1089837	52.199	ug/l	98
44) Isopropyl Acetate	8.560	43	1701774	52.281	ug/l	96
45) 1,4-Dioxane	9.569	88	241826	915.213	ug/l #	85
46) Methyl methacrylate	9.561	41	800791	53.417	ug/l	81
47) n-amyl Acetate	12.388	43	1219974	48.807	ug/l	97
48) t-1,3-Dichloropropene	10.719	75	984317	58.203	ug/l	98
49) cis-1,3-Dichloropropene	10.188	75	1060903	57.649	ug/l	94
50) 1,1,2-Trichloroethane	10.899	97	617626	51.804	ug/l	96
51) Ethyl methacrylate	10.760	69	1012596	50.658	ug/l	90
52) 1,3-Dichloropropane	11.044	76	1095728	53.207	ug/l	99
53) Dibromochloromethane	11.240	129	702711	61.680	ug/l	98
54) 1,2-Dibromoethane	11.344	107	634204	51.364	ug/l	96
55) 2-Chloroethyl vinyl ether	10.041	63	953513	209.714	ug/l	96
56) Bromoform	12.457	173	533821	65.342	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	5632242	269.248	ug/l #	94
59) 2-Hexanone	11.084	43	4236910	266.272	ug/l	95
61) Tetrachloroethene	10.977	164	543124	53.100	ug/l	94
62) Toluene	10.505	91	2775914	53.009	ug/l	98
64) Chlorobenzene	11.771	112	1633207	51.983	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.840	131	627166	56.700	ug/l	99
66) Ethyl Benzene	11.843	91	3125175	53.916	ug/l	100
67) m/p-Xylenes	11.953	106	2285205	106.147	ug/l	94
68) o-Xylene	12.280	106	1126514	52.260	ug/l	94
69) Styrene	12.294	104	1854998	53.080	ug/l	97
70) Isopropylbenzene	12.578	105	2963633	52.570	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	968801	52.080	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	911972m	50.325	ug/l	
73) Bromobenzene	12.860	156	675910	52.012	ug/l	91
74) n-propylbenzene	12.919	91	3455210	53.367	ug/l	98
75) 2-Chlorotoluene	13.007	91	2082889	52.848	ug/l	95
76) 1,3,5-Trimethylbenzene	13.058	105	2438480	52.701	ug/l	99
77) t-1,4-Dichloro-2-butene	12.624	75	287437	58.760	ug/l	92
78) 4-Chlorotoluene	13.104	91	2007263	53.181	ug/l	94
79) tert-butylbenzene	13.324	119	2105334	51.725	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	2362860m	52.349	ug/l	
81) sec-Butylbenzene	13.501	105	2965689	52.076	ug/l	100
82) p-Isopropyltoluene	13.616	119	2375019	52.268	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	1169319	52.628	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	1128485	52.354	ug/l	99
85) n-Butylbenzene	13.943	91	1978453	52.168	ug/l	99
86) Hexachloroethane	14.209	117	468267	62.268	ug/l	88
87) 1,2-Dichlorobenzene	13.989	146	1127421	52.577	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	189346	58.146	ug/l	96
89) 1,2,4-Trichlorobenzene	15.263	180	536712	52.201	ug/l	98
90) Hexachlorobutadiene	15.370	225	315550	56.754	ug/l	99
91) Naphthalene	15.504	128	1404267	47.412	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	510509	50.508	ug/l	99

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

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