

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
 Data File : VN069649.D
 Acq On : 26 Nov 2021 10:22
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 29 00:14:27 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	191054	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1106776	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	989367	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	513648	30.999	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.333%			
60) 4-Bromofluorobenzene	12.731	95	470534	29.719	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.067%			
63) Toluene-d8	10.443	98	1386265	30.346	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	319082	22.602	ug/l	100
3) Chloromethane	2.306	50	328932	22.346	ug/l	97
4) Vinyl Chloride	2.448	62	312557	20.941	ug/l	99
5) Bromomethane	2.867	94	180816	18.916	ug/l	96
6) Chloroethane	3.027	64	189563	20.130	ug/l	96
7) Trichlorofluoromethane	3.379	101	425457	19.448	ug/l	98
8) Diethyl Ether	3.824	74	151043	21.873	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.210	101	234298m	23.145	ug/l	
10) 1,1-Dichloroethene	4.186	96	213553	22.367	ug/l	88
11) Methyl Iodide	4.422	142	291003	21.876	ug/l	98
12) Methyl Acetate	4.859	43	594889	21.635	ug/l #	87
13) Acrolein	4.039	56	89712	118.667	ug/l	100
14) Acrylonitrile	5.557	53	790007	105.311	ug/l	99
15) Acetone	4.291	58	318940	127.594	ug/l	80
16) Carbon Disulfide	4.532	76	504247	21.129	ug/l	97
17) Allyl chloride	4.843	41	450047	22.178	ug/l	90
18) Methylene Chloride	5.093	84	262401	21.573	ug/l #	86
19) trans-1,2-Dichloroethene	5.600	96	230324	21.983	ug/l	86
20) Diisopropyl ether	6.495	45	959048	22.056	ug/l #	96
21) 1,1-Dichloroethane	6.388	63	492496	22.326	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	274641	21.135	ug/l	90
23) tert-Butyl Alcohol	5.374	59	262604	100.585	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	843961	22.056	ug/l	96
25) Chloroform	7.817	83	502343	22.024	ug/l	99
26) Cyclohexane	8.096	56	466674	22.282	ug/l #	87
29) 1,1-Dichloropropene	8.222	75	364503	21.575	ug/l	95
30) 2-Butanone	7.337	43	1351612	110.525	ug/l	91
31) 2,2-Dichloropropane	7.327	77	380966	21.329	ug/l	97
32) 1,1,1-Trichloroethane	8.013	97	414426	21.012	ug/l	94
33) Carbon Tetrachloride	8.206	117	343711	21.100	ug/l	96
34) Benzene	8.461	78	1092171	21.258	ug/l #	95
35) Methacrylonitrile	7.635	41	220642	19.672	ug/l	90
36) 1,2-Dichloroethane	8.531	62	430499	21.734	ug/l	99
37) Trichloroethene	9.217	130	262074	21.114	ug/l	93
38) Methylcyclohexane	9.462	83	449631	21.511	ug/l	89
39) 1,2-Dichloropropane	9.491	63	295778	21.737	ug/l	99
40) Dibromomethane	9.577	93	192028	21.071	ug/l	95
41) Bromodichloromethane	9.762	83	358969	20.986	ug/l	97
42) Vinyl Acetate	6.436	43	3647093	105.531	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	445705	19.667	ug/l	100
44) Isopropyl Acetate	8.560	43	722711	20.455	ug/l	96
45) 1,4-Dioxane	9.566	88	108000	376.555	ug/l #	85
46) Methyl methacrylate	9.561	41	333642	20.503	ug/l	82
47) n-amyl Acetate	12.388	43	450725	16.612	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	364146	19.837	ug/l	99
49) cis-1,3-Dichloropropene	10.188	75	412863	20.668	ug/l	94
50) 1,1,2-Trichloroethane	10.899	97	266153	20.566	ug/l	93
51) Ethyl methacrylate	10.762	69	415465	19.148	ug/l	90
52) 1,3-Dichloropropane	11.044	76	465230	20.812	ug/l	99
53) Dibromochloromethane	11.240	129	249136	20.146	ug/l	99
54) 1,2-Dibromoethane	11.347	107	263464	19.658	ug/l	97
55) 2-Chloroethyl vinyl ether	10.041	63	467788	94.784	ug/l	97
56) Bromoform	12.460	173	168745	19.029	ug/l #	100
58) 4-Methyl-2-Pentanone	10.331	43	2345338	107.994	ug/l #	94
59) 2-Hexanone	11.087	43	1726803	104.530	ug/l	95
61) Tetrachloroethene	10.977	164	249121	23.460	ug/l	97
62) Toluene	10.505	91	1172104	21.559	ug/l	98
64) Chlorobenzene	11.771	112	703900	21.580	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.840	131	249218	21.702	ug/l	100
66) Ethyl Benzene	11.843	91	1299338	21.592	ug/l	99
67) m/p-Xylenes	11.953	106	957214	42.826	ug/l	95
68) o-Xylene	12.280	106	471364	21.062	ug/l	95
69) Styrene	12.294	104	745874	20.558	ug/l	97
70) Isopropylbenzene	12.578	105	1248957	21.340	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	405644	21.004	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	369135m	19.620	ug/l	
73) Bromobenzene	12.860	156	280184	20.767	ug/l	93
74) n-propylbenzene	12.921	91	1393242	20.728	ug/l	99
75) 2-Chlorotoluene	13.007	91	863581	21.105	ug/l	96
76) 1,3,5-Trimethylbenzene	13.061	105	1021502	21.265	ug/l	99
77) t-1,4-Dichloro-2-butene	12.624	75	90310	17.783	ug/l	82
78) 4-Chlorotoluene	13.106	91	803695	20.510	ug/l	95
79) tert-butylbenzene	13.324	119	882493	20.884	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	972525m	20.754	ug/l	
81) sec-Butylbenzene	13.503	105	1221995	20.668	ug/l	100
82) p-Isopropyltoluene	13.616	119	960055	20.351	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	474417	20.567	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	451420	20.172	ug/l	98
85) n-Butylbenzene	13.943	91	725434	18.425	ug/l	99
86) Hexachloroethane	14.211	117	155357	19.898	ug/l	88
87) 1,2-Dichlorobenzene	13.989	146	457316	20.542	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	65690	19.430	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	181142	16.970	ug/l	98
90) Hexachlorobutadiene	15.370	225	126034	21.834	ug/l	97
91) Naphthalene	15.507	128	432990	14.081	ug/l	98
92) 1,2,3-Trichlorobenzene	15.703	180	178091	16.971	ug/l	99

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

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