

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112221\
 Data File : VN069602.D
 Acq On : 22 Nov 2021 11:20
 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 11/23/2021
 Supervised By : Mahesh Dadoda 11/23/2021

Quant Time: Nov 23 03:48:43 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	180884	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	978380	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	887133	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	489998	31.235	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.100%			
60) 4-Bromofluorobenzene	12.733	95	418326	29.467	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.233%			
63) Toluene-d8	10.440	98	1256125	30.666	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	264239	19.769	ug/l	98
3) Chloromethane	2.306	50	288379	20.693	ug/l	96
4) Vinyl Chloride	2.448	62	266595	18.866	ug/l	99
5) Bromomethane	2.861	94	161451	17.840	ug/l	97
6) Chloroethane	3.025	64	162063	18.178	ug/l	99
7) Trichlorofluoromethane	3.379	101	348266	16.815	ug/l	98
8) Diethyl Ether	3.824	74	142077	21.731	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.210	101	191119	19.941	ug/l #	71
10) 1,1-Dichloroethene	4.178	96	174488	19.303	ug/l	88
11) Methyl Iodide	4.419	142	261867	20.792	ug/l	97
12) Methyl Acetate	4.856	43	540734	20.771	ug/l	90
13) Acrolein	4.041	56	80709	112.761	ug/l	100
14) Acrylonitrile	5.556	53	731471	102.990	ug/l	99
15) Acetone	4.288	58	293833	124.159	ug/l	73
16) Carbon Disulfide	4.529	76	423288	18.734	ug/l	99
17) Allyl chloride	4.840	41	390992	20.351	ug/l	88
18) Methylene Chloride	5.092	84	238846	20.741	ug/l	91
19) trans-1,2-Dichloroethene	5.599	96	191035	19.258	ug/l	84
20) Diisopropyl ether	6.498	45	859003	20.866	ug/l #	96
21) 1,1-Dichloroethane	6.388	63	425595	20.378	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	239317	19.452	ug/l	91
23) tert-Butyl Alcohol	5.377	59	244395m	98.873	ug/l	
24) Methyl tert-Butyl Ether	5.618	73	751457	20.743	ug/l	94
25) Chloroform	7.817	83	440994	20.422	ug/l	99
26) Cyclohexane	8.094	56	370642	18.692	ug/l	87
29) 1,1-Dichloropropene	8.220	75	294459	19.716	ug/l	96
30) 2-Butanone	7.337	43	1250754	115.700	ug/l	91
31) 2,2-Dichloropropane	7.329	77	315787	20.000	ug/l	98
32) 1,1,1-Trichloroethane	8.013	97	342431	19.640	ug/l	94
33) Carbon Tetrachloride	8.206	117	284478	19.755	ug/l	99
34) Benzene	8.458	78	945834	20.825	ug/l #	93
35) Methacrylonitrile	7.638	41	213573	21.541	ug/l	90
36) 1,2-Dichloroethane	8.528	62	391061	22.334	ug/l	99
37) Trichloroethene	9.215	130	220360	20.083	ug/l	90
38) Methylcyclohexane	9.459	83	357353	19.340	ug/l	88
39) 1,2-Dichloropropane	9.491	63	255757	21.262	ug/l	100
40) Dibromomethane	9.579	93	175296	21.760	ug/l	96
41) Bromodichloromethane	9.762	83	319613	21.137	ug/l	94
42) Vinyl Acetate	6.433	43	3331925m	109.064	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	425333	21.231	ug/l	94
44) Isopropyl Acetate	8.560	43	665841	21.318	ug/l	95
45) 1,4-Dioxane	9.571	88	103066	406.511	ug/l	90
46) Methyl methacrylate	9.561	41	295457	20.540	ug/l	83
47) n-amyl Acetate	12.390	43	406839	16.963	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	323916	19.961	ug/l	100
49) cis-1,3-Dichloropropene	10.188	75	363927	20.609	ug/l	93
50) 1,1,2-Trichloroethane	10.899	97	239701	20.953	ug/l	99
51) Ethyl methacrylate	10.762	69	380815	19.855	ug/l	91
52) 1,3-Dichloropropane	11.044	76	419127	21.210	ug/l	100
53) Dibromochloromethane	11.240	129	221961	20.304	ug/l	98
54) 1,2-Dibromoethane	11.347	107	238898	20.164	ug/l	96
55) 2-Chloroethyl vinyl ether	10.041	63	813221	186.401	ug/l	96
56) Bromoform	12.457	173	149295	19.045	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	2162079	111.028	ug/l #	94
59) 2-Hexanone	11.087	43	1595260	107.696	ug/l	95
61) Tetrachloroethene	10.979	164	201278	21.139	ug/l	97
62) Toluene	10.505	91	1008696	20.691	ug/l	99
64) Chlorobenzene	11.771	112	588216	20.112	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.840	131	217809	21.153	ug/l	99
66) Ethyl Benzene	11.846	91	1073704	19.898	ug/l	99
67) m/p-Xylenes	11.956	106	786941	39.266	ug/l	94
68) o-Xylene	12.280	106	389510	19.411	ug/l	93
69) Styrene	12.296	104	620748	19.080	ug/l	97
70) Isopropylbenzene	12.578	105	1008057	19.208	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	363205	20.974	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	316725m	18.775	ug/l	
73) Bromobenzene	12.862	156	238087	19.681	ug/l	93
74) n-propylbenzene	12.921	91	1127937	18.714	ug/l	98
75) 2-Chlorotoluene	13.010	91	717341	19.551	ug/l	96
76) 1,3,5-Trimethylbenzene	13.061	105	831772	19.310	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	79458	17.449	ug/l	82
78) 4-Chlorotoluene	13.106	91	657392	18.710	ug/l	95
79) tert-butylbenzene	13.323	119	710665	18.756	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	796438m	18.954	ug/l	
81) sec-Butylbenzene	13.503	105	962022	18.146	ug/l	100
82) p-Isopropyltoluene	13.616	119	761289	17.997	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	393518	19.026	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	368093	18.344	ug/l	98
85) n-Butylbenzene	13.943	91	567095	16.063	ug/l	99
86) Hexachloroethane	14.211	117	127077	18.152	ug/l	90
87) 1,2-Dichlorobenzene	13.991	146	389041	19.489	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	59910	19.763	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	155520	16.249	ug/l	97
90) Hexachlorobutadiene	15.370	225	98022	18.938	ug/l	98
91) Naphthalene	15.507	128	386266	14.009	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	156634	16.647	ug/l	99

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

