

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020321\
 Data File : VN065706.D
 Acq On : 3 Feb 2021 17:50
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 10:33:27 AM

Quant Time: Feb 04 04:20:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 14:50:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.151	128	28372	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.550	114	163754	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	141608	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.987	65	60358	30.67	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.23%			
60) 4-Bromofluorobenzene	12.373	95	66997	29.08	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.93%			
63) Toluene-d8	10.058	98	204003	29.97	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.90%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.836	85	32939	19.43	ug/l	94
3) Chloromethane	2.036	50	48377	19.46	ug/l	99
4) Vinyl Chloride	2.168	62	46609	18.96	ug/l	98
5) Bromomethane	2.537	94	28578	19.48	ug/l	96
6) Chloroethane	2.679	64	26365	18.58	ug/l	100
7) Trichlorofluoromethane	2.994	101	48277	18.94	ug/l	97
8) Diethyl Ether	3.377	74	22480	19.23	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.714	101	29407	18.88	ug/l	90
10) 1,1-Dichloroethene	3.698	96	31215	18.81	ug/l	91
11) Methyl Iodide	3.907	142	43013	18.40	ug/l	99
12) Methyl Acetate	4.283	43	37137	18.48	ug/l	97
13) Acrolein	3.573	56	26139	96.87	ug/l	99
14) Acrylonitrile	4.942	53	82396	92.26	ug/l	98
15) Acetone	3.782	58	22099	80.88	ug/l	87
16) Carbon Disulfide	4.007	76	96402	18.52	ug/l	97
17) Allyl chloride	4.277	41	59572	18.92	ug/l	94
18) Methylene Chloride	4.502	84	37553	19.20	ug/l	95
19) trans-1,2-Dichloroethene	4.987	96	34753	19.16	ug/l	92
20) Diisopropyl ether	5.907	45	121288	19.09	ug/l	95
21) 1,1-Dichloroethane	5.798	63	66466	18.97	ug/l	99
22) cis-1,2-Dichloroethene	6.782	96	39385	18.89	ug/l	96
23) tert-Butyl Alcohol	4.762	59	29035	90.88	ug/l #	100
24) Methyl tert-Butyl Ether	5.000	73	105285	18.99	ug/l	99
25) Chloroform	7.328	83	60509	19.03	ug/l	99
26) Cyclohexane	7.608	56	62282	18.99	ug/l #	89
29) 1,1-Dichloropropene	7.753	75	48561	18.37	ug/l	96
30) 2-Butanone	6.798	43	103368	87.33	ug/l	97
31) 2,2-Dichloropropane	6.775	77	47727	17.25	ug/l	99
32) 1,1,1-Trichloroethane	7.528	97	48249	18.40	ug/l	98
33) Carbon Tetrachloride	7.730	117	39367	18.17	ug/l	98
34) Benzene	8.000	78	151035	18.49	ug/l	98
35) Methacrylonitrile	7.129	41	23265	18.71	ug/l	97
36) 1,2-Dichloroethane	8.084	62	45814	18.68	ug/l	98
37) Trichloroethene	8.801	130	36404	18.46	ug/l	85
38) Methylcyclohexane	9.042	83	56304	17.96	ug/l	94
39) 1,2-Dichloropropane	9.081	63	42067	18.96	ug/l	98
40) Dibromomethane	9.174	93	23281	18.51	ug/l	82
41) Bromodichloromethane	9.367	83	46289	18.17	ug/l	97
42) Vinyl Acetate	5.849	43	478537	92.29	ug/l	97

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43) Ethyl Acetate	6.888	43	47050	19.41	ug/l	97
44) Isopropyl Acetate	8.129	43	78357	18.69	ug/l	100
45) 1,4-Dioxane	9.171	88	12935	371.99	ug/l	91
46) Methyl methacrylate	9.164	41	37242	18.54	ug/l	94
47) n-amyl Acetate	12.042	43	60963	17.38	ug/l	96
48) t-1,3-Dichloropropene	10.351	75	52401	17.41	ug/l	99
49) cis-1,3-Dichloropropene	9.807	75	60667	17.79	ug/l	97
50) 1,1,2-Trichloroethane	10.531	97	34154	18.55	ug/l	98
51) Ethyl methacrylate	10.399	69	53763	18.14	ug/l	97
52) 1,3-Dichloropropane	10.675	76	61726	18.73	ug/l	99
53) Dibromochloromethane	10.871	129	32418	17.38	ug/l	98
54) 1,2-Dibromoethane	10.974	107	33491	18.15	ug/l	100
55) 2-Chloroethyl vinyl ether	9.663	63	120208	91.27	ug/l	96
56) Bromoform	12.097	173	20619	17.50	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	221499	94.17	ug/l	98
59) 2-Hexanone	10.720	43	152886	90.81	ug/l	99
61) Tetrachloroethene	10.598	164	35510	19.04	ug/l	91
62) Toluene	10.122	91	154230	18.63	ug/l	99
64) Chlorobenzene	11.402	112	90622	18.55	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.476	131	32098	18.89	ug/l	98
66) Ethyl Benzene	11.482	91	164509	18.56	ug/l	99
67) m/p-Xylenes	11.592	106	122775	37.20	ug/l	98
68) o-Xylene	11.916	106	59749	18.59	ug/l	96
69) Styrene	11.936	104	95118	18.30	ug/l	98
70) Isopropylbenzene	12.219	105	154173	18.68	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.476	83	45414	18.75	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	41160m	17.35	ug/l	
73) Bromobenzene	12.495	156	33911	18.23	ug/l	70
74) n-propylbenzene	12.563	91	176207	18.47	ug/l	94
75) 2-Chlorotoluene	12.643	91	107576	18.61	ug/l	92
76) 1,3,5-Trimethylbenzene	12.704	105	128550	18.60	ug/l	97
77) t-1,4-Dichloro-2-butene	12.273	75	14696	15.87	ug/l	97
78) 4-Chlorotoluene	12.743	91	104187	18.12	ug/l	95
79) tert-butylbenzene	12.965	119	106952	18.73	ug/l	96
80) 1,2,4-Trimethylbenzene	13.010	105	127153	18.38	ug/l	97
81) sec-Butylbenzene	13.141	105	139727	18.33	ug/l	96
82) p-Isopropyltoluene	13.260	119	123233	18.15	ug/l	98
83) 1,3-Dichlorobenzene	13.254	146	57458	17.66	ug/l	96
84) 1,4-Dichlorobenzene	13.334	146	55878	17.51	ug/l	97
85) n-Butylbenzene	13.585	91	102009	17.22	ug/l	97
86) Hexachloroethane	13.846	117	19907	16.89	ug/l	75
87) 1,2-Dichlorobenzene	13.624	146	58916	18.12	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.241	75	7993	17.12	ug/l #	74
89) 1,2,4-Trichlorobenzene	14.878	180	26809	15.81	ug/l	95
90) Hexachlorobutadiene	14.977	225	13024	16.94	ug/l	93
91) Naphthalene	15.100	128	77760	14.32	ug/l	99
92) 1,2,3-Trichlorobenzene	15.280	180	26300	15.46	ug/l	97

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

