

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050821\
 Data File : VN067064.D
 Acq On : 7 May 2021 20:34
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/10/2021 2:24:22 PM

Quant Time: May 08 04:10:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 07:26:20 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.115	128	76971	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.520	114	405840	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.352	117	369252	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.954	65	201640	29.90	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.67%		
60) 4-Bromofluorobenzene	12.347	95	180455	29.38	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.93%		
63) Toluene-d8	10.030	98	554889	30.34	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.13%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.837	85	113973	21.65	ug/l	99
3) Chloromethane	2.035	50	164313	20.46	ug/l	98
4) Vinyl Chloride	2.161	62	161433	20.79	ug/l	99
5) Bromomethane	2.515	94	87415	20.18	ug/l	94
6) Chloroethane	2.660	64	91438	20.43	ug/l	95
7) Trichlorofluoromethane	2.974	101	183957	19.50	ug/l	97
8) Diethyl Ether	3.357	74	60531	19.00	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.695	101	88208	19.32	ug/l	99
10) 1,1-Dichloroethene	3.674	96	85255	19.46	ug/l	98
11) Methyl Iodide	3.886	142	92063	15.45	ug/l	99
12) Methyl Acetate	4.253	43	112035	17.99	ug/l	92
13) Acrolein	3.548	56	127414	125.19	ug/l	97
14) Acrylonitrile	4.897	53	231805	94.15	ug/l	98
15) Acetone	3.757	58	65609	91.80	ug/l	86
16) Carbon Disulfide	3.985	76	280649	19.36	ug/l	100
17) Allyl chloride	4.248	41	164644	19.24	ug/l	98
18) Methylene Chloride	4.470	84	109586	18.42	ug/l	96
19) trans-1,2-Dichloroethene	4.953	96	93709	19.43	ug/l	95
20) Diisopropyl ether	5.870	45	305933	19.37	ug/l	89
21) 1,1-Dichloroethane	5.763	63	206135m	19.63	ug/l	
22) cis-1,2-Dichloroethene	6.739	96	106882	19.32	ug/l	98
23) tert-Butyl Alcohol	4.715	59	84316	85.97	ug/l #	100
24) Methyl tert-Butyl Ether	4.961	73	281285	19.37	ug/l	99
25) Chloroform	7.292	83	199456	19.69	ug/l	97
26) Cyclohexane	7.582	56	144449	19.79	ug/l #	98
29) 1,1-Dichloropropene	7.721	75	133125	18.76	ug/l	99
30) 2-Butanone	6.750	43	307622	90.39	ug/l	100
31) 2,2-Dichloropropane	6.737	77	162830	19.01	ug/l	98
32) 1,1,1-Trichloroethane	7.493	97	171694	18.63	ug/l	99
33) Carbon Tetrachloride	7.702	117	151654	18.91	ug/l	98
34) Benzene	7.970	78	430421	18.71	ug/l	96
35) Methacrylonitrile	7.091	41	61066	19.19	ug/l	90
36) 1,2-Dichloroethane	8.051	62	159402	18.59	ug/l	99
37) Trichloroethene	8.770	130	94907	19.06	ug/l	100
38) Methylcyclohexane	9.016	83	134678	19.07	ug/l	98
39) 1,2-Dichloropropane	9.054	63	118789	18.60	ug/l	98
40) Dibromomethane	9.145	93	73787	18.69	ug/l	97
41) Bromodichloromethane	9.341	83	153446	18.41	ug/l	96
42) Vinyl Acetate	5.809	43	1378695	94.00	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.849	43	131380	16.38	ug/l	96
44) Isopropyl Acetate	8.096	43	221134	18.15	ug/l	98
45) 1,4-Dioxane	9.140	88	25970	333.74	ug/l	96
46) Methyl methacrylate	9.140	41	91905	17.92	ug/l	97
48) t-1,3-Dichloropropene	10.325	75	159941	18.72	ug/l	95
49) cis-1,3-Dichloropropene	9.778	75	179428	19.16	ug/l	98
50) 1,1,2-Trichloroethane	10.505	97	102130	18.71	ug/l	98
51) Ethyl methacrylate	10.373	69	132650	18.59	ug/l	99
52) 1,3-Dichloropropane	10.650	76	179665	18.95	ug/l	99
53) Dibromochloromethane	10.845	129	112828	18.80	ug/l	99
54) 1,2-Dibromoethane	10.947	107	98704	18.91	ug/l	98
55) 2-Chloroethyl vinyl ether	9.636	63	198653	145.39	ug/l	99
56) Bromoform	12.074	173	71159	17.85	ug/l #	100
58) 4-Methyl-2-Pentanone	9.923	43	657921	95.17	ug/l	97
59) 2-Hexanone	10.695	43	377274	92.54	ug/l	97
61) Tetrachloroethene	10.572	164	82523	19.72	ug/l	98
62) Toluene	10.095	91	441530	19.39	ug/l	100
64) Chlorobenzene	11.377	112	252046	18.95	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.452	131	103743	19.54	ug/l	98
66) Ethyl Benzene	11.457	91	452652	19.57	ug/l	99
67) m/p-Xylenes	11.567	106	338600	38.99	ug/l	100
68) o-Xylene	11.894	106	168815	19.70	ug/l	96
69) Styrene	11.913	104	252521	19.17	ug/l	100
70) Isopropylbenzene	12.197	105	437558	19.69	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.449	83	149965	18.54	ug/l	98
72) 1,2,3-Trichloropropane	12.503	75	134296m	18.32	ug/l	
73) Bromobenzene	12.473	156	99189	18.48	ug/l	96
74) n-propylbenzene	12.538	91	498212	19.56	ug/l	99
75) 2-Chlorotoluene	12.621	91	322871	19.72	ug/l	99
76) 1,3,5-Trimethylbenzene	12.680	105	377054	19.19	ug/l	99
77) t-1,4-Dichloro-2-butene	12.254	75	27819	16.92	ug/l	94
78) 4-Chlorotoluene	12.723	91	301118	20.49	ug/l	98
79) tert-butylbenzene	12.937	119	320404	19.25	ug/l	99
80) 1,2,4-Trimethylbenzene	12.988	105	363952	19.76	ug/l	96
81) sec-Butylbenzene	13.117	105	423598	19.25	ug/l	99
82) p-Isopropyltoluene	13.238	119	348897	19.93	ug/l	99
83) 1,3-Dichlorobenzene	13.232	146	170320	19.12	ug/l	99
84) 1,4-Dichlorobenzene	13.316	146	150580	16.33	ug/l	92
85) n-Butylbenzene	13.565	91	271173	19.24	ug/l	95
86) Hexachloroethane	13.817	117	68632	17.71	ug/l	98
87) 1,2-Dichlorobenzene	13.603	146	171647	18.59	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.230	75	27092	17.28	ug/l	96
89) 1,2,4-Trichlorobenzene	14.858	180	98759	21.19	ug/l	97
90) Hexachlorobutadiene	14.949	225	60294	19.17	ug/l	96
91) Naphthalene	15.078	128	298005	23.33	ug/l	100
92) 1,2,3-Trichlorobenzene	15.255	180	98134	20.10	ug/l	97

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

