

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070921\
 Data File : VN067697.D
 Acq On : 9 Jul 2021 19:55
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/12/2021 5:45:02 PM

Quant Time: Jul 10 05:20:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N070121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 01 12:09:22 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	102719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	600821	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	546147	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	225402	27.155	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.500%	#	
60) 4-Bromofluorobenzene	12.733	95	259067	29.158	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.200%		
63) Toluene-d8	10.443	98	725359	29.026	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.767%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.070	85	119574	18.797	ug/l	100
3) Chloromethane	2.301	50	134784	17.602	ug/l	99
4) Vinyl Chloride	2.443	62	176494	14.644	ug/l	95
5) Bromomethane	2.853	94	137315	14.124	ug/l	90
6) Chloroethane	3.017	64	125522m	14.124	ug/l	
7) Trichlorofluoromethane	3.371	101	316847	13.790	ug/l	95
8) Diethyl Ether	3.821	74	77696	12.999	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.205	101	112230	22.189	ug/l	76
10) 1,1-Dichloroethene	4.175	96	114447	22.931	ug/l	# 80
11) Methyl Iodide	4.417	142	155274	23.364	ug/l	84
12) Methyl Acetate	4.859	43	134943	21.070	ug/l	# 88
13) Acrolein	4.039	56	107966	119.543	ug/l	96
14) Acrylonitrile	5.557	53	284670	95.692	ug/l	99
15) Acetone	4.291	58	75498	108.340	ug/l	78
16) Carbon Disulfide	4.524	76	285998	19.950	ug/l	99
17) Allyl chloride	4.835	41	165840	18.844	ug/l	93
18) Methylene Chloride	5.093	84	132998	20.539	ug/l	# 84
19) trans-1,2-Dichloroethene	5.591	96	121731	20.284	ug/l	# 79
20) Diisopropyl ether	6.501	45	360876	16.956	ug/l	# 95
21) 1,1-Dichloroethane	6.385	63	210375	18.507	ug/l	96
22) cis-1,2-Dichloroethene	7.327	96	139341	18.987	ug/l	83
23) tert-Butyl Alcohol	5.388	59	107922m	95.337	ug/l	
24) Methyl tert-Butyl Ether	5.621	73	387800	18.493	ug/l	93
25) Chloroform	7.820	83	226544	17.682	ug/l	97
26) Cyclohexane	8.096	56	191067	18.607	ug/l	# 88
29) 1,1-Dichloropropene	8.222	75	164552	17.478	ug/l	94
30) 2-Butanone	7.340	43	397479	92.518	ug/l	93
31) 2,2-Dichloropropane	7.327	77	149869	14.953	ug/l	94
32) 1,1,1-Trichloroethane	8.013	97	198900	16.858	ug/l	95
33) Carbon Tetrachloride	8.206	117	171778	17.175	ug/l	98
34) Benzene	8.458	78	585707	20.179	ug/l	95
35) Methacrylonitrile	7.640	41	78219	16.742	ug/l	90
36) 1,2-Dichloroethane	8.531	62	172900	16.193	ug/l	# 95
37) Trichloroethene	9.217	130	139881	19.256	ug/l	83
38) Methylcyclohexane	9.461	83	193313	18.470	ug/l	89
39) 1,2-Dichloropropane	9.491	63	126474	17.429	ug/l	99
40) Dibromomethane	9.579	93	91004	16.961	ug/l	84
41) Bromodichloromethane	9.765	83	169664	16.294	ug/l	97
42) Vinyl Acetate	6.436	43	1535074	81.580	ug/l	# 95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	145912	15.648	ug/l #	68
44) Isopropyl Acetate	8.566	43	270291	16.358	ug/l	96
45) 1,4-Dioxane	9.574	88	44758	345.345	ug/l #	88
46) Methyl methacrylate	9.561	41	115552	16.325	ug/l	88
47) n-amyl Acetate	12.390	43	224043	16.122	ug/l	98
48) t-1,3-Dichloropropene	10.722	75	174844	15.608	ug/l	97
49) cis-1,3-Dichloropropene	10.191	75	192938	16.338	ug/l	89
50) 1,1,2-Trichloroethane	10.902	97	129274	17.052	ug/l	95
51) Ethyl methacrylate	10.762	69	194962	16.323	ug/l	89
52) 1,3-Dichloropropane	11.047	76	208573	16.655	ug/l	100
53) Dibromochloromethane	11.240	129	129765	15.885	ug/l	98
54) 1,2-Dibromoethane	11.347	107	131842	16.666	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	202110	79.546	ug/l #	94
56) Bromoform	12.463	173	90291	15.876	ug/l #	98
58) 4-Methyl-2-Pentanone	10.333	43	820724	86.355	ug/l #	93
59) 2-Hexanone	11.087	43	581797	87.878	ug/l	92
61) Tetrachloroethene	10.979	164	136199	20.241	ug/l	93
62) Toluene	10.507	91	1468778	45.722	ug/l	99
64) Chlorobenzene	11.773	112	357281	18.771	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	129478	18.254	ug/l	99
66) Ethyl Benzene	11.846	91	728654	20.581	ug/l	94
67) m/p-Xylenes	11.956	106	628937	45.760	ug/l	84
68) o-Xylene	12.283	106	288637	21.080	ug/l	82
69) Styrene	12.296	104	394318	17.534	ug/l	93
70) Isopropylbenzene	12.581	105	612773	17.492	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.830	83	178845	17.751	ug/l	99
72) 1,2,3-Trichloropropane	12.884	75	162496m	18.534	ug/l	
73) Bromobenzene	12.862	156	152470	19.200	ug/l	66
74) n-propylbenzene	12.924	91	704877	17.802	ug/l	93
75) 2-Chlorotoluene	13.010	91	427059	17.938	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	525491	18.164	ug/l	93
77) t-1,4-Dichloro-2-butene	12.629	75	45236	15.737	ug/l	94
78) 4-Chlorotoluene	13.109	91	410456	17.334	ug/l	87
79) tert-butylbenzene	13.326	119	438858	18.035	ug/l	86
80) 1,2,4-Trimethylbenzene	13.372	105	639147m	22.427	ug/l	
81) sec-Butylbenzene	13.503	105	585596	17.503	ug/l	93
82) p-Isopropyltoluene	13.619	119	490539	17.879	ug/l	91
83) 1,3-Dichlorobenzene	13.619	146	268794	18.237	ug/l	93
84) 1,4-Dichlorobenzene	13.696	146	262839	18.412	ug/l	94
85) n-Butylbenzene	13.946	91	392241	17.299	ug/l	97
86) Hexachloroethane	14.214	117	79158	16.915	ug/l	86
87) 1,2-Dichlorobenzene	13.991	146	261301	18.398	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.603	75	32397	17.988	ug/l #	53
89) 1,2,4-Trichlorobenzene	15.265	180	136351	22.298	ug/l	97
90) Hexachlorobutadiene	15.373	225	62640	22.106	ug/l	96
91) Naphthalene	15.509	128	526749	27.956	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	136533	23.410	ug/l	95

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

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