

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067022.D
 Acq On : 6 May 2021 20:24
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/7/2021 6:23:31 PM

Quant Time: May 07 06:12:02 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 06:08:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.112	128	81599	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.517	114	421090	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	399814	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.951	65	210666	12.82	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	42.73%#		
60) 4-Bromofluorobenzene	12.347	95	215263	14.08	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	46.93%#		
63) Toluene-d8	10.030	98	589548	12.95	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	43.17%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.834	85	298704	35.54	ug/l	99
3) Chloromethane	2.035	50	419947	34.91	ug/l	99
4) Vinyl Chloride	2.161	62	411240	35.62	ug/l	99
5) Bromomethane	2.502	94	226495	35.50	ug/l	100
6) Chloroethane	2.649	64	233351	35.60	ug/l	96
7) Trichlorofluoromethane	2.968	101	497703	35.00	ug/l	99
8) Diethyl Ether	3.355	74	172582	37.99	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.692	101	239440	34.85	ug/l	100
10) 1,1-Dichloroethene	3.671	96	232896	35.87	ug/l	98
11) Methyl Iodide	3.883	142	330675	37.72	ug/l	96
12) Methyl Acetate	4.253	43	325409	36.41	ug/l	96
13) Acrolein	3.545	56	268080	186.51	ug/l	99
14) Acrylonitrile	4.897	53	677095	186.45	ug/l	97
15) Acetone	3.754	58	189889	181.72	ug/l	94
16) Carbon Disulfide	3.982	76	758714	35.07	ug/l	99
17) Allyl chloride	4.245	41	471370	40.42	ug/l	98
18) Methylene Chloride	4.468	84	299932	34.41	ug/l	98
19) trans-1,2-Dichloroethene	4.950	96	261251	36.71	ug/l	99
20) Diisopropyl ether	5.865	45	867020	36.51	ug/l	90
21) 1,1-Dichloroethane	5.755	63	551371	35.54	ug/l	99
22) cis-1,2-Dichloroethene	6.739	96	301736	36.98	ug/l	98
23) tert-Butyl Alcohol	4.712	59	265348	192.67	ug/l #	100
24) Methyl tert-Butyl Ether	4.956	73	804030	37.43	ug/l	99
25) Chloroform	7.292	83	531426	36.00	ug/l	100
26) Cyclohexane	7.576	56	412265	38.54	ug/l #	99
29) 1,1-Dichloropropene	7.715	75	387155	37.48	ug/l	99
30) 2-Butanone	6.747	43	932725	191.79	ug/l	100
31) 2,2-Dichloropropane	6.737	77	434828	35.60	ug/l	99
32) 1,1,1-Trichloroethane	7.490	97	469550	35.26	ug/l	100
33) Carbon Tetrachloride	7.697	117	407338	35.14	ug/l	99
34) Benzene	7.968	78	1197495	35.99	ug/l #	92
35) Methacrylonitrile	7.082	41	169663	40.29	ug/l	97
36) 1,2-Dichloroethane	8.053	62	438917	35.31	ug/l	100
37) Trichloroethene	8.769	130	259725	36.19	ug/l	96
38) Methylcyclohexane	9.016	83	394556	39.68	ug/l	98
39) 1,2-Dichloropropane	9.051	63	328434	35.19	ug/l	98
40) Dibromomethane	9.145	93	202775	35.93	ug/l	100
41) Bromodichloromethane	9.338	83	431306	36.69	ug/l	98
42) Vinyl Acetate	5.806	43	4064155	190.42	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.844	43	400363	37.73	ug/l	99
44) Isopropyl Acetate	8.096	43	657286	38.01	ug/l	100
45) 1,4-Dioxane	9.137	88	88897	821.24	ug/l	97
46) Methyl methacrylate	9.137	41	295306	41.42	ug/l	97
47) n-amyl Acetate	12.025	43	257744m	10582.78	ug/l	
48) t-1,3-Dichloropropene	10.322	75	466752	38.47	ug/l	95
49) cis-1,3-Dichloropropene	9.778	75	504838	37.48	ug/l	99
50) 1,1,2-Trichloroethane	10.502	97	279487	35.50	ug/l	96
51) Ethyl methacrylate	10.373	69	424070	42.59	ug/l	99
52) 1,3-Dichloropropane	10.647	76	503578	37.25	ug/l	99
53) Dibromochloromethane	10.843	129	315743	36.71	ug/l	99
54) 1,2-Dibromoethane	10.947	107	281174	37.02	ug/l	100
55) 2-Chloroethyl vinyl ether	9.633	63	412773	224.20	ug/l	99
56) Bromoform	12.074	173	220975	40.28	ug/l #	100
58) 4-Methyl-2-Pentanone	9.923	43	2004943	190.93	ug/l	99
59) 2-Hexanone	10.695	43	1344306	219.16	ug/l	98
61) Tetrachloroethene	10.572	164	220460	34.81	ug/l	98
62) Toluene	10.094	91	1241050	36.35	ug/l	100
64) Chlorobenzene	11.376	112	726456	36.16	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.451	131	279209	35.38	ug/l	99
66) Ethyl Benzene	11.454	91	1363610	39.15	ug/l	100
67) m/p-Xylenes	11.567	106	1031142	79.38	ug/l	96
68) o-Xylene	11.891	106	506555	40.00	ug/l	98
69) Styrene	11.910	104	805833	40.97	ug/l	99
70) Isopropylbenzene	12.194	105	1343161	40.57	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.449	83	459263	36.25	ug/l	100
72) 1,2,3-Trichloropropane	12.497	75	446313m	40.56	ug/l	
73) Bromobenzene	12.471	156	306342	37.85	ug/l	95
74) n-propylbenzene	12.538	91	1587477	41.34	ug/l	100
75) 2-Chlorotoluene	12.618	91	986755	38.92	ug/l	99
76) 1,3,5-Trimethylbenzene	12.680	105	1183013	39.92	ug/l	100
77) t-1,4-Dichloro-2-butene	12.248	75	120951	51.11	ug/l	94
78) 4-Chlorotoluene	12.720	91	974282	41.30	ug/l	99
79) tert-butylbenzene	12.937	119	993911	40.11	ug/l	99
80) 1,2,4-Trimethylbenzene	12.986	105	1141468	41.02	ug/l	99
81) sec-Butylbenzene	13.117	105	1359962	41.74	ug/l	99
82) p-Isopropyltoluene	13.235	119	1117589	43.33	ug/l	99
83) 1,3-Dichlorobenzene	13.230	146	553096	42.17	ug/l	99
84) 1,4-Dichlorobenzene	13.310	146	532260	43.00	ug/l	95
85) n-Butylbenzene	13.562	91	875568	45.53	ug/l	96
86) Hexachloroethane	13.814	117	213993	38.02	ug/l	100
87) 1,2-Dichlorobenzene	13.600	146	558988	40.31	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.222	75	82454	43.06	ug/l	98
89) 1,2,4-Trichlorobenzene	14.855	180	291909	45.44	ug/l	96
90) Hexachlorobutadiene	14.949	225	176275	39.68	ug/l	95
91) Naphthalene	15.072	128	814444	45.34	ug/l	99
92) 1,2,3-Trichlorobenzene	15.252	180	287762	41.35	ug/l	98

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

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