

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067023.D
 Acq On : 6 May 2021 20:48
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 5/7/2021 6:23:32 PM

Quant Time: May 07 06:12:43 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	7.109	128	80924	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.517	114	429467	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	424906	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.952	65	212064	13.01	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	43.37%#	
60) 4-Bromofluorobenzene	12.345	95	238995	14.71	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	49.03%#	
63) Toluene-d8	10.030	98	601021	12.42	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	41.40%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.834	85	627555	75.29	ug/l	99
3) Chloromethane	2.032	50	934770	78.36	ug/l	100
4) Vinyl Chloride	2.161	62	913083	79.74	ug/l	99
5) Bromomethane	2.494	94	480255	75.91	ug/l	98
6) Chloroethane	2.644	64	493206	75.88	ug/l	97
7) Trichlorofluoromethane	2.963	101	1024819	72.67	ug/l	97
8) Diethyl Ether	3.355	74	364781	80.96	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.690	101	486892	71.46	ug/l	99
10) 1,1-Dichloroethene	3.668	96	497583	77.28	ug/l	100
11) Methyl Iodide	3.880	142	709104	81.55	ug/l	99
12) Methyl Acetate	4.248	43	670897	75.70	ug/l	96
13) Acrolein	3.542	56	574938	403.32	ug/l	99
14) Acrylonitrile	4.891	53	1432905	397.88	ug/l	97
15) Acetone	3.752	58	392018	378.28	ug/l	90
16) Carbon Disulfide	3.980	76	1588539	74.04	ug/l	99
17) Allyl chloride	4.242	41	1001737	86.61	ug/l	100
18) Methylene Chloride	4.468	84	617232	71.41	ug/l	98
19) trans-1,2-Dichloroethene	4.945	96	534044	75.66	ug/l	100
20) Diisopropyl ether	5.865	45	1803690	76.59	ug/l #	86
21) 1,1-Dichloroethane	5.755	63	1140703	74.14	ug/l	99
22) cis-1,2-Dichloroethene	6.739	96	628856	77.72	ug/l	100
23) tert-Butyl Alcohol	4.712	59	555173	406.47	ug/l #	100
24) Methyl tert-Butyl Ether	4.956	73	1698237	79.71	ug/l	99
25) Chloroform	7.289	83	1100838	75.19	ug/l	97
26) Cyclohexane	7.576	56	893166	84.19	ug/l #	100
29) 1,1-Dichloropropene	7.716	75	832404	79.01	ug/l	99
30) 2-Butanone	6.747	43	1986656	400.54	ug/l	99
31) 2,2-Dichloropropane	6.734	77	889553	71.41	ug/l	99
32) 1,1,1-Trichloroethane	7.490	97	969136	71.35	ug/l	99
33) Carbon Tetrachloride	7.697	117	855626	72.38	ug/l	98
34) Benzene	7.968	78	2507408	73.88	ug/l #	90
35) Methacrylonitrile	7.085	41	355670	82.82	ug/l	96
36) 1,2-Dichloroethane	8.051	62	907360	71.58	ug/l	100
37) Trichloroethene	8.770	130	547725	74.83	ug/l	98
38) Methylcyclohexane	9.014	83	872221	86.00	ug/l	97
39) 1,2-Dichloropropane	9.051	63	684929	71.96	ug/l	98
40) Dibromomethane	9.142	93	422159	73.34	ug/l	99
41) Bromodichloromethane	9.338	83	901753	75.20	ug/l	99
42) Vinyl Acetate	5.803	43	8456099	388.47	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.841	43	845209	78.11	ug/l	98
44) Isopropyl Acetate	8.094	43	1414397	80.21	ug/l	99
45) 1,4-Dioxane	9.137	88	195665	1772.32	ug/l	99
46) Methyl methacrylate	9.137	41	652588	89.74	ug/l	98
47) n-amyl Acetate	12.017	43	920072m	37040.61	ug/l	
48) t-1,3-Dichloropropene	10.322	75	1028109	83.09	ug/l	96
49) cis-1,3-Dichloropropene	9.775	75	1087033	79.13	ug/l	99
50) 1,1,2-Trichloroethane	10.502	97	592038	73.72	ug/l	96
51) Ethyl methacrylate	10.371	69	973129	95.82	ug/l	97
52) 1,3-Dichloropropane	10.647	76	1076766	78.10	ug/l	99
53) Dibromochloromethane	10.843	129	680395	77.56	ug/l	99
54) 1,2-Dibromoethane	10.945	107	608797	78.59	ug/l	99
55) 2-Chloroethyl vinyl ether	9.633	63	1007398	536.50	ug/l	99
56) Bromoform	12.074	173	503264	89.95	ug/l #	100
58) 4-Methyl-2-Pentanone	9.923	43	4310768	386.26	ug/l	97
59) 2-Hexanone	10.693	43	3099121	475.40	ug/l	97
61) Tetrachloroethene	10.572	164	471071	69.98	ug/l	98
62) Toluene	10.094	91	2629760	72.48	ug/l	99
64) Chlorobenzene	11.374	112	1596493	74.77	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.452	131	610429	72.77	ug/l	100
66) Ethyl Benzene	11.454	91	3038085	82.07	ug/l	98
67) m/p-Xylenes	11.564	106	2334484	169.10	ug/l	95
68) o-Xylene	11.891	106	1145008	85.09	ug/l	97
69) Styrene	11.907	104	1915412	91.63	ug/l	99
70) Isopropylbenzene	12.192	105	3020610	85.85	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.449	83	994760	73.88	ug/l	98
72) 1,2,3-Trichloropropane	12.498	75	1009840m	86.35	ug/l	
73) Bromobenzene	12.468	156	709418	82.48	ug/l	95
74) n-propylbenzene	12.535	91	3688360	90.37	ug/l	100
75) 2-Chlorotoluene	12.618	91	2279702	84.61	ug/l	99
76) 1,3,5-Trimethylbenzene	12.680	105	2742340	87.07	ug/l	99
77) t-1,4-Dichloro-2-butene	12.245	75	318535	126.64	ug/l	93
78) 4-Chlorotoluene	12.717	91	2317713	92.45	ug/l	100
79) tert-butylbenzene	12.937	119	2280408	86.59	ug/l	99
80) 1,2,4-Trimethylbenzene	12.986	105	2720123	91.99	ug/l	99
81) sec-Butylbenzene	13.117	105	3217624	92.93	ug/l	99
82) p-Isopropyltoluene	13.235	119	2732196	99.68	ug/l	99
83) 1,3-Dichlorobenzene	13.227	146	1313555	94.25	ug/l	99
84) 1,4-Dichlorobenzene	13.307	146	1311984	99.73	ug/l	94
85) n-Butylbenzene	13.560	91	2280933	111.60	ug/l	95
86) Hexachloroethane	13.817	117	499473	83.49	ug/l	99
87) 1,2-Dichlorobenzene	13.597	146	1284485	87.15	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.214	75	204481	100.49	ug/l	99
89) 1,2,4-Trichlorobenzene	14.852	180	699546	102.46	ug/l	98
90) Hexachlorobutadiene	14.949	225	404618	85.69	ug/l	96
91) Naphthalene	15.072	128	1950498	102.16	ug/l	99
92) 1,2,3-Trichlorobenzene	15.249	180	685217	92.66	ug/l	98

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

