

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067028.D
 Acq On : 6 May 2021 23:36
 Operator : JC/MD
 Sample : M2262-08 LOQ
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2021

Manual Integrations
 APPROVED

MMDadoda
 5/7/2021 6:23:44 PM

Quant Time: May 07 09:37:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 09:36:44 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.115	128	76414	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.520	114	385904	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.352	117	338321	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.954	65	205358	30.67	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.23%			
60) 4-Bromofluorobenzene	12.353	95	144602	25.69	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 85.63%			
63) Toluene-d8	10.030	98	536214	32.00	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 106.67%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.837	85	22378	4.28	ug/l	95
3) Chloromethane	2.035	50	39102	4.90	ug/l	96
4) Vinyl Chloride	2.161	62	37347	4.84	ug/l	99
5) Bromomethane	2.512	94	21918	5.10	ug/l	94
6) Chloroethane	2.655	64	21945	4.94	ug/l	92
7) Trichlorofluoromethane	2.971	101	45892	4.90	ug/l	96
8) Diethyl Ether	3.357	74	15275	4.83	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.698	101	22631	4.99	ug/l	99
10) 1,1-Dichloroethene	3.668	96	22110	5.08	ug/l	91
11) Methyl Iodide	3.891	142	27781	4.70	ug/l	99
12) Methyl Acetate	4.256	43	33024	5.34	ug/l	91
13) Acrolein	3.548	56	24930	24.67	ug/l	99
14) Acrylonitrile	4.905	53	58093	23.77	ug/l	97
15) Acetone	3.760	58	18420m	25.96	ug/l	
16) Carbon Disulfide	3.985	76	72058	5.01	ug/l	99
17) Allyl chloride	4.250	41	36879	4.34	ug/l	92
18) Methylene Chloride	4.468	84	32200	5.45	ug/l	96
19) trans-1,2-Dichloroethene	4.958	96	23743m	4.96	ug/l	
20) Diisopropyl ether	5.865	45	72456	4.62	ug/l	96
21) 1,1-Dichloroethane	5.758	63	52662	5.05	ug/l	99
22) cis-1,2-Dichloroethene	6.739	96	27862	5.07	ug/l	95
23) tert-Butyl Alcohol	4.712	59	26056m	26.76	ug/l	
24) Methyl tert-Butyl Ether	4.953	73	69502	4.82	ug/l #	89
25) Chloroform	7.292	83	51932	5.16	ug/l	97
26) Cyclohexane	7.579	56	33317	4.60	ug/l #	97
29) 1,1-Dichloropropene	7.713	75	32298	4.79	ug/l	99
30) 2-Butanone	6.755	43	74317	22.96	ug/l #	95
31) 2,2-Dichloropropane	6.742	77	38744m	4.76	ug/l	
32) 1,1,1-Trichloroethane	7.493	97	44722	5.10	ug/l	97
33) Carbon Tetrachloride	7.697	117	38656	5.07	ug/l	99
34) Benzene	7.968	78	111554	5.10	ug/l #	72
35) Methacrylonitrile	7.085	41	10311	3.41	ug/l	94
36) 1,2-Dichloroethane	8.053	62	41795	5.13	ug/l	99
37) Trichloroethene	8.772	130	24291	5.13	ug/l	91
38) Methylcyclohexane	9.016	83	30141	4.49	ug/l	85
39) 1,2-Dichloropropane	9.051	63	31207	5.14	ug/l	100
40) Dibromomethane	9.145	93	18248	4.86	ug/l	96
41) Bromodichloromethane	9.338	83	39385	4.97	ug/l	95
42) Vinyl Acetate	5.811	43	318371	22.83	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.852	43	29439	3.86	ug/l	99
44) Isopropyl Acetate	8.099	43	53826	4.65	ug/l	96
45) 1,4-Dioxane	9.140	88	4872	65.84	ug/l #	78
46) Methyl methacrylate	9.145	41	20142	4.13	ug/l	93
48) t-1,3-Dichloropropene	10.328	75	35863	4.42	ug/l	96
49) cis-1,3-Dichloropropene	9.778	75	41784	4.69	ug/l	95
50) 1,1,2-Trichloroethane	10.505	97	25510	4.91	ug/l	96
51) Ethyl methacrylate	10.373	69	23345	3.44	ug/l	89
52) 1,3-Dichloropropane	10.650	76	43635	4.84	ug/l	99
53) Dibromochloromethane	10.843	129	26311	4.61	ug/l	97
54) 1,2-Dibromoethane	10.950	107	23535	4.74	ug/l	99
55) 2-Chloroethyl vinyl ether	9.641	63	20455	15.74	ug/l	99
56) Bromoform	12.082	173	16794	4.43	ug/l #	99
58) 4-Methyl-2-Pentanone	9.925	43	146213	23.08	ug/l	99
59) 2-Hexanone	10.700	43	53119	14.22	ug/l	95
61) Tetrachloroethene	10.574	164	20991	5.47	ug/l	95
62) Toluene	10.094	91	109234	5.23	ug/l	98
64) Chlorobenzene	11.376	112	61492	5.04	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.451	131	25737	5.29	ug/l	98
66) Ethyl Benzene	11.457	91	97372	4.60	ug/l	99
67) m/p-Xylenes	11.567	106	63907	8.03	ug/l	95
68) o-Xylene	11.894	106	34995	4.46	ug/l	98
69) Styrene	11.923	104	44755	3.71	ug/l	96
70) Isopropylbenzene	12.197	105	89404	4.39	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.454	83	35142	4.74	ug/l	96
72) 1,2,3-Trichloropropane	12.505	75	29136m	4.34	ug/l	
73) Bromobenzene	12.479	156	21474	4.37	ug/l	93
74) n-propylbenzene	12.543	91	86760	3.72	ug/l	99
75) 2-Chlorotoluene	12.623	91	57119	3.81	ug/l	88
76) 1,3,5-Trimethylbenzene	12.682	105	72904	4.05	ug/l	99
77) t-1,4-Dichloro-2-butene	12.277	75	3454m	2.30	ug/l	
78) 4-Chlorotoluene	12.728	91	44255	3.29	ug/l	94
79) tert-butylbenzene	12.940	119	62210	4.08	ug/l	96
80) 1,2,4-Trimethylbenzene	12.991	105	64293	3.81	ug/l	92
81) sec-Butylbenzene	13.122	105	76832	3.81	ug/l	99
82) p-Isopropyltoluene	13.240	119	57145	3.56	ug/l	98
83) 1,3-Dichlorobenzene	13.240	146	31950	3.92	ug/l	92
84) 1,4-Dichlorobenzene	13.321	146	43331m	5.13	ug/l	
85) n-Butylbenzene	13.589	91	49218m	3.81	ug/l	
86) Hexachloroethane	13.820	117	16689	4.70	ug/l	94
87) 1,2-Dichlorobenzene	13.610	146	38565m	4.56	ug/l	
88) 1,2-Dibromo-3-Chloropr...	14.249	75	8294m	5.77	ug/l	
89) 1,2,4-Trichlorobenzene	14.874	180	18547m	4.34	ug/l	
90) Hexachlorobutadiene	14.954	225	13436	4.66	ug/l	95
91) Naphthalene	15.088	128	43414	3.71	ug/l #	82
92) 1,2,3-Trichlorobenzene	15.268	180	19680	4.40	ug/l	86

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

