

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030521\
 Data File : VN066131.D
 Acq On : 5 Mar 2021 13:38
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda

3/8/2021 10:55:30 AM

Quant Time: Mar 05 14:32:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 05 14:32:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.164	128	43225	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.553	114	241506	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	219017	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.994	65	114517	36.46	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	121.53%#		
60) 4-Bromofluorobenzene	12.373	95	107211	29.86	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.53%		
63) Toluene-d8	10.058	98	303127	29.10	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.00%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.875	85	11933	4.77	ug/l	93
3) Chloromethane	2.075	50	15074	4.13	ug/l	100
4) Vinyl Chloride	2.206	62	14156	3.94	ug/l	100
5) Bromomethane	2.576	94	10054	4.54	ug/l	95
6) Chloroethane	2.714	64	8040	3.84	ug/l	96
7) Trichlorofluoromethane	3.023	101	21853	5.47	ug/l	99
8) Diethyl Ether	3.409	74	7126	4.09	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.759	101	9036m	3.94	ug/l	
10) 1,1-Dichloroethene	3.730	96	9654	3.90	ug/l	97
11) Methyl Iodide	3.949	142	13878	3.94	ug/l	83
12) Methyl Acetate	4.316	43	10238	3.47	ug/l #	88
13) Acrolein	3.608	56	10741	26.52	ug/l	97
14) Acrylonitrile	4.965	53	24638	18.62	ug/l #	87
15) Acetone	3.820	58	9033	22.87	ug/l #	71
16) Carbon Disulfide	4.049	76	29496	3.83	ug/l	97
17) Allyl chloride	4.312	41	17995	3.85	ug/l	97
18) Methylene Chloride	4.537	84	12123	4.13	ug/l	96
19) trans-1,2-Dichloroethene	5.029	96	11235m	4.11	ug/l	
20) Diisopropyl ether	5.920	45	33043	3.54	ug/l #	85
21) 1,1-Dichloroethane	5.820	63	22024	4.18	ug/l	99
22) cis-1,2-Dichloroethene	6.801	96	13839m	4.39	ug/l	
23) tert-Butyl Alcohol	4.791	59	11621m	23.75	ug/l	
24) Methyl tert-Butyl Ether	5.023	73	39831	4.64	ug/l #	60
25) Chloroform	7.338	83	23258	4.74	ug/l	97
26) Cyclohexane	7.621	56	16626	3.49	ug/l #	98
29) 1,1-Dichloropropene	7.762	75	15933	4.11	ug/l	98
30) 2-Butanone	6.804	43	34524	20.25	ug/l	100
31) 2,2-Dichloropropane	6.791	77	22692	5.36	ug/l #	73
32) 1,1,1-Trichloroethane	7.541	97	20865	5.15	ug/l	99
33) Carbon Tetrachloride	7.743	117	17387	5.16	ug/l	95
34) Benzene	8.010	78	49206	4.13	ug/l #	72
35) Methacrylonitrile	7.158	41	7910m	4.27	ug/l	
36) 1,2-Dichloroethane	8.094	62	20536	5.42	ug/l #	84
37) Trichloroethene	8.807	130	13497	4.61	ug/l	99
38) Methylcyclohexane	9.049	83	17032	3.77	ug/l	96
39) 1,2-Dichloropropane	9.087	63	12918	4.04	ug/l	96
40) Dibromomethane	9.180	93	8404	4.47	ug/l	85
41) Bromodichloromethane	9.370	83	18484	4.77	ug/l	93
42) Vinyl Acetate	5.865	43	144830	19.32	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.894	43	14510m	4.17	ug/l	
44) Isopropyl Acetate	8.132	43	24732	4.05	ug/l	100
45) 1,4-Dioxane	9.187	88	3880	76.24	ug/l #	82
46) Methyl methacrylate	9.171	41	10842	3.70	ug/l	94
47) n-amyl Acetate	12.045	43	10991	2.22	ug/l	93
48) t-1,3-Dichloropropene	10.351	75	21166	4.65	ug/l	94
49) cis-1,3-Dichloropropene	9.811	75	22459	4.42	ug/l	94
50) 1,1,2-Trichloroethane	10.531	97	11353	4.18	ug/l	94
51) Ethyl methacrylate	10.396	69	16350	3.79	ug/l	91
52) 1,3-Dichloropropane	10.675	76	20174	4.16	ug/l	99
53) Dibromochloromethane	10.872	129	13860	4.85	ug/l	97
54) 1,2-Dibromoethane	10.975	107	11681	4.24	ug/l	98
55) 2-Chloroethyl vinyl ether	9.663	63	26753	14.58	ug/l	99
56) Bromoform	12.100	173	8040	4.41	ug/l #	89
58) 4-Methyl-2-Pentanone	9.952	43	66015	18.70	ug/l	98
59) 2-Hexanone	10.724	43	42222	16.89	ug/l	96
61) Tetrachloroethene	10.602	164	13935	4.78	ug/l	91
62) Toluene	10.122	91	51791	4.09	ug/l	97
64) Chlorobenzene	11.405	112	33287	4.40	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.479	131	12771	4.76	ug/l	92
66) Ethyl Benzene	11.483	91	58122	4.25	ug/l	99
67) m/p-Xylenes	11.592	106	44099	8.60	ug/l	93
68) o-Xylene	11.920	106	21901	4.38	ug/l	95
69) Styrene	11.936	104	33553	4.14	ug/l	94
70) Isopropylbenzene	12.219	105	57612	4.48	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.476	83	15262	4.08	ug/l	98
72) 1,2,3-Trichloropropane	12.524	75	14031m	3.86	ug/l	
73) Bromobenzene	12.495	156	13565	4.62	ug/l	82
74) n-propylbenzene	12.563	91	57718	3.91	ug/l	100
75) 2-Chlorotoluene	12.646	91	37894	4.21	ug/l	95
76) 1,3,5-Trimethylbenzene	12.704	105	50280	4.61	ug/l	95
77) t-1,4-Dichloro-2-butene	12.273	75	4255	3.03	ug/l	87
78) 4-Chlorotoluene	12.746	91	36464	4.04	ug/l	95
79) tert-butylbenzene	12.965	119	41892	4.63	ug/l	91
80) 1,2,4-Trimethylbenzene	13.010	105	47628	4.38	ug/l	98
81) sec-Butylbenzene	13.142	105	48953	4.13	ug/l	99
82) p-Isopropyltoluene	13.257	119	46473	4.33	ug/l	97
83) 1,3-Dichlorobenzene	13.254	146	21021	4.10	ug/l	97
84) 1,4-Dichlorobenzene	13.338	146	18304	3.65	ug/l	97
85) n-Butylbenzene	13.585	91	33135	3.63	ug/l	98
86) Hexachloroethane	13.843	117	6815	3.77	ug/l	69
87) 1,2-Dichlorobenzene	13.624	146	21739	4.24	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.241	75	3153	4.27	ug/l #	74
89) 1,2,4-Trichlorobenzene	14.878	180	9109	3.42	ug/l	90
90) Hexachlorobutadiene	14.974	225	5619	4.61	ug/l	92
91) Naphthalene	15.100	128	23424	2.77	ug/l	98
92) 1,2,3-Trichlorobenzene	15.283	180	9443	3.51	ug/l	95

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

