

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066681.D
 Acq On : 20 Apr 2021 14:53
 Operator : JC/MD
 Sample : VN0420WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0420WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/21/2021 4:34:55 PM

Quant Time: Apr 21 10:07:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 12:52:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.114	128	46793	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	241494	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	226810	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	100357	29.77	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.23%	
60) 4-Bromofluorobenzene	12.346	95	104449	29.38	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.93%	
63) Toluene-d8	10.029	98	312006	29.90	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.67%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.835	85	41526	18.02	ug/l	97
3) Chloromethane	2.034	50	65947	18.40	ug/l	99
4) Vinyl Chloride	2.163	62	61946	18.13	ug/l	100
5) Bromomethane	2.517	94	39972	19.90	ug/l	95
6) Chloroethane	2.662	64	37922	18.19	ug/l	96
7) Trichlorofluoromethane	2.973	101	69045	18.14	ug/l	97
8) Diethyl Ether	3.356	74	31898	18.88	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.697	101	43944	18.21	ug/l	99
10) 1,1-Dichloroethene	3.675	96	43703	17.97	ug/l	98
11) Methyl Iodide	3.887	142	66527	18.06	ug/l	97
12) Methyl Acetate	4.252	43	62141	18.74	ug/l	100
13) Acrolein	3.549	56	44773	95.49	ug/l	96
14) Acrylonitrile	4.896	53	139525	95.77	ug/l	98
15) Acetone	3.756	58	35556	92.98	ug/l	90
16) Carbon Disulfide	3.986	76	134539	17.94	ug/l	99
17) Allyl chloride	4.247	41	88619	18.38	ug/l	93
18) Methylene Chloride	4.475	84	58995	18.96	ug/l	99
19) trans-1,2-Dichloroethene	4.957	96	49845	18.10	ug/l	97
20) Diisopropyl ether	5.864	45	189413	18.68	ug/l	94
21) 1,1-Dichloroethane	5.762	63	100236	18.39	ug/l	98
22) cis-1,2-Dichloroethene	6.741	96	59128	18.51	ug/l	99
23) tert-Butyl Alcohol	4.708	59	50367	101.57	ug/l #	100
24) Methyl tert-Butyl Ether	4.957	73	160784	18.96	ug/l	95
25) Chloroform	7.291	83	96505	18.48	ug/l	97
26) Cyclohexane	7.575	56	83857	17.89	ug/l #	99
29) 1,1-Dichloropropene	7.717	75	67728	17.81	ug/l	97
30) 2-Butanone	6.749	43	173234	94.37	ug/l	99
31) 2,2-Dichloropropane	6.735	77	80501	18.37	ug/l	98
32) 1,1,1-Trichloroethane	7.492	97	79335	18.48	ug/l	98
33) Carbon Tetrachloride	7.698	117	66398	18.31	ug/l	95
34) Benzene	7.969	78	229443	18.72	ug/l	98
35) Methacrylonitrile	7.084	41	35698m	20.20	ug/l	
36) 1,2-Dichloroethane	8.052	62	74847	18.60	ug/l	96
37) Trichloroethene	8.768	130	53675	18.42	ug/l	100
38) Methylcyclohexane	9.015	83	81859	18.06	ug/l	96
39) 1,2-Dichloropropane	9.053	63	63286	18.91	ug/l	98
40) Dibromomethane	9.144	93	37846	18.87	ug/l	99
41) Bromodichloromethane	9.340	83	78783	18.71	ug/l	100
42) Vinyl Acetate	5.807	43	784489	95.34	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.845	43	70852	17.55	ug/l #	83
44) Isopropyl Acetate	8.095	43	127454	18.93	ug/l #	88
45) 1,4-Dioxane	9.136	88	18712	381.92	ug/l	96
46) Methyl methacrylate	9.136	41	56821	18.47	ug/l	91
47) n-amyl Acetate	12.035	43	19115	22.51	ug/l	92
48) t-1,3-Dichloropropene	10.324	75	83847	18.22	ug/l	98
49) cis-1,3-Dichloropropene	9.777	75	93184	18.33	ug/l	92
50) 1,1,2-Trichloroethane	10.501	97	56320	19.10	ug/l	98
51) Ethyl methacrylate	10.372	69	74773	17.95	ug/l	94
52) 1,3-Dichloropropane	10.648	76	94478	18.82	ug/l	98
53) Dibromochloromethane	10.842	129	60021	18.82	ug/l	100
54) 1,2-Dibromoethane	10.946	107	55655	18.82	ug/l	100
55) 2-Chloroethyl vinyl ether	9.632	63	53790	84.45	ug/l	99
56) Bromoform	12.073	173	41932	18.24	ug/l #	98
58) 4-Methyl-2-Pentanone	9.922	43	370923	96.02	ug/l	99
59) 2-Hexanone	10.694	43	231250	93.12	ug/l	98
61) Tetrachloroethene	10.573	164	47950	19.15	ug/l	99
62) Toluene	10.093	91	241773	18.78	ug/l	99
64) Chlorobenzene	11.375	112	144497	18.76	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.450	131	55091	19.06	ug/l	97
66) Ethyl Benzene	11.456	91	252668	18.37	ug/l	98
67) m/p-Xylenes	11.566	106	191181	37.02	ug/l	98
68) o-Xylene	11.893	106	94100	18.79	ug/l	100
69) Styrene	11.912	104	146220	18.16	ug/l	98
70) Isopropylbenzene	12.193	105	243719	18.63	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.448	83	86878	20.11	ug/l	98
72) 1,2,3-Trichloropropane	12.499	75	75748m	20.14	ug/l	
73) Bromobenzene	12.469	156	61474	18.58	ug/l	98
74) n-propylbenzene	12.537	91	273154	17.99	ug/l	100
75) 2-Chlorotoluene	12.617	91	170370	18.74	ug/l	100
76) 1,3,5-Trimethylbenzene	12.679	105	204896	18.52	ug/l	98
77) t-1,4-Dichloro-2-butene	12.250	75	19277	16.23	ug/l	91
78) 4-Chlorotoluene	12.719	91	161363	18.11	ug/l	99
79) tert-butylbenzene	12.936	119	170728	18.43	ug/l	98
80) 1,2,4-Trimethylbenzene	12.984	105	192899	18.18	ug/l	98
81) sec-Butylbenzene	13.116	105	227297	18.44	ug/l	99
82) p-Isopropyltoluene	13.234	119	187769	17.81	ug/l	98
83) 1,3-Dichlorobenzene	13.228	146	98553	17.94	ug/l	100
84) 1,4-Dichlorobenzene	13.312	146	95575	18.02	ug/l	95
85) n-Butylbenzene	13.561	91	149781	17.09	ug/l	99
86) Hexachloroethane	13.816	117	39834	17.95	ug/l	96
87) 1,2-Dichlorobenzene	13.599	146	101772	18.86	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.221	75	12120	16.33	ug/l	98
89) 1,2,4-Trichlorobenzene	14.854	180	58300	18.69	ug/l	100
90) Hexachlorobutadiene	14.948	225	32039	18.34	ug/l	99
91) Naphthalene	15.074	128	156539	20.88	ug/l	100
92) 1,2,3-Trichlorobenzene	15.251	180	56246	19.07	ug/l	96

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

