

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020321\
 Data File : VN065698.D
 Acq On : 3 Feb 2021 14:03
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 10:33:15 AM

Quant Time: Feb 03 14:20:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 14:18:49 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.151	128	29906	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.547	114	168293	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	153627	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.987	65	62007	32.54	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	108.47%	
60) 4-Bromofluorobenzene	12.373	95	76766	32.33	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	107.77%	
63) Toluene-d8	10.058	98	216964	31.61	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	105.37%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.837	85	193897	126.75	ug/l	94
3) Chloromethane	2.033	50	278209	141.64	ug/l	98
4) Vinyl Chloride	2.168	62	277775	130.78	ug/l	98
5) Bromomethane	2.538	94	144273	99.44	ug/l	98
6) Chloroethane	2.676	64	158378	117.89	ug/l	97
7) Trichlorofluoromethane	2.994	101	282951	105.50	ug/l	99
8) Diethyl Ether	3.380	74	131451	118.25	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.718	101	173289	108.37	ug/l	91
10) 1,1-Dichloroethene	3.695	96	185417	112.17	ug/l	92
11) Methyl Iodide	3.907	142	266410	104.24	ug/l	99
12) Methyl Acetate	4.287	43	221514	131.57	ug/l	96
13) Acrolein	3.573	56	144039	517.32	ug/l	100
14) Acrylonitrile	4.939	53	510698	672.09	ug/l	98
15) Acetone	3.788	58	135086	562.62	ug/l	88
16) Carbon Disulfide	4.007	76	583239	137.37	ug/l	98
17) Allyl chloride	4.274	41	362588	145.66	ug/l	91
18) Methylene Chloride	4.502	84	216731	119.26	ug/l	94
19) trans-1,2-Dichloroethene	4.988	96	201405	119.55	ug/l	89
20) Diisopropyl ether	5.910	45	705999	136.38	ug/l	90
21) 1,1-Dichloroethane	5.798	63	391380	129.13	ug/l	99
22) cis-1,2-Dichloroethene	6.778	96	233844	119.35	ug/l	95
23) tert-Butyl Alcohol	4.779	59	176640	719.76	ug/l #	100
24) Methyl tert-Butyl Ether	5.000	73	625408	125.73	ug/l	98
25) Chloroform	7.328	83	353139	115.61	ug/l	100
26) Cyclohexane	7.611	56	366559	139.69	ug/l #	88
29) 1,1-Dichloropropene	7.750	75	293783	120.48	ug/l	97
30) 2-Butanone	6.795	43	648466	644.42	ug/l	96
31) 2,2-Dichloropropane	6.775	77	300218	118.86	ug/l	99
32) 1,1,1-Trichloroethane	7.528	97	286584	106.85	ug/l	99
33) Carbon Tetrachloride	7.730	117	240974	102.80	ug/l	99
34) Benzene	8.000	78	891769	118.99	ug/l #	89
35) Methacrylonitrile	7.126	41	148529	146.69	ug/l	96
36) 1,2-Dichloroethane	8.084	62	268739	111.08	ug/l	98
37) Trichloroethene	8.801	130	219140	101.78	ug/l	89
38) Methylcyclohexane	9.045	83	345400	121.20	ug/l	95
39) 1,2-Dichloropropane	9.081	63	245348	125.11	ug/l	100
40) Dibromomethane	9.174	93	139139	109.19	ug/l	83
41) Bromodichloromethane	9.367	83	284480	114.26	ug/l	99
42) Vinyl Acetate	5.846	43	2889272	663.60	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.888	43	279468	131.10	ug/l	97
44) Isopropyl Acetate	8.129	43	467259	130.77	ug/l	97
45) 1,4-Dioxane	9.180	88	76128	2854.76	ug/l	91
46) Methyl methacrylate	9.164	41	224409	128.16	ug/l	94
47) n-amyl Acetate	12.042	43	402413	131.31	ug/l	96
48) t-1,3-Dichloropropene	10.351	75	342941	122.06	ug/l	97
49) cis-1,3-Dichloropropene	9.807	75	383548	124.05	ug/l	98
50) 1,1,2-Trichloroethane	10.531	97	202878	108.96	ug/l	95
51) Ethyl methacrylate	10.399	69	335861	124.97	ug/l	97
52) 1,3-Dichloropropane	10.675	76	364633	116.25	ug/l	100
53) Dibromochloromethane	10.872	129	213325	104.64	ug/l	99
54) 1,2-Dibromoethane	10.974	107	209775	106.23	ug/l	98
55) 2-Chloroethyl vinyl ether	9.663	63	759754	628.82	ug/l	97
56) Bromoform	12.097	173	136744	88.35	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	1345125	635.05	ug/l	98
59) 2-Hexanone	10.720	43	954599	622.96	ug/l	99
61) Tetrachloroethene	10.598	164	206494	87.42	ug/l	92
62) Toluene	10.122	91	929589	114.26	ug/l	99
64) Chlorobenzene	11.402	112	558679	107.51	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.479	131	193340	100.31	ug/l	96
66) Ethyl Benzene	11.482	91	1015762	114.35	ug/l	98
67) m/p-Xylenes	11.592	106	759025	220.33	ug/l	97
68) o-Xylene	11.917	106	364871	109.34	ug/l	98
69) Styrene	11.933	104	609419	110.40	ug/l	98
70) Isopropylbenzene	12.219	105	943763	108.57	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.476	83	277697	111.59	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	256034m	106.64	ug/l	
73) Bromobenzene	12.495	156	213573	89.57	ug/l	70
74) n-propylbenzene	12.563	91	1114425	114.09	ug/l	95
75) 2-Chlorotoluene	12.643	91	650549	110.06	ug/l	93
76) 1,3,5-Trimethylbenzene	12.704	105	795605	107.46	ug/l	98
77) t-1,4-Dichloro-2-butene	12.270	75	112294	131.53	ug/l	92
78) 4-Chlorotoluene	12.743	91	672540	113.26	ug/l	94
79) tert-butylbenzene	12.965	119	650639	102.73	ug/l	97
80) 1,2,4-Trimethylbenzene	13.010	105	796921	108.19	ug/l	99
81) sec-Butylbenzene	13.142	105	873986	106.14	ug/l	96
82) p-Isopropyltoluene	13.261	119	788603	103.34	ug/l	98
83) 1,3-Dichlorobenzene	13.254	146	385474	96.52	ug/l	96
84) 1,4-Dichlorobenzene	13.334	146	382681	97.81	ug/l	97
85) n-Butylbenzene	13.585	91	710552	115.64	ug/l	98
86) Hexachloroethane	13.843	117	139375	109.73	ug/l	74
87) 1,2-Dichlorobenzene	13.624	146	372129	94.33	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.241	75	55179	121.00	ug/l #	80
89) 1,2,4-Trichlorobenzene	14.878	180	221500	107.33	ug/l	97
90) Hexachlorobutadiene	14.978	225	83781	63.95	ug/l	97
91) Naphthalene	15.100	128	723706	135.50	ug/l	100
92) 1,2,3-Trichlorobenzene	15.280	180	216540	106.33	ug/l	98

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

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