

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078736.D
 Acq On : 02 Aug 2023 18:50
 Operator : JC\MD
 Sample : VN0802WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/03/2023
 Supervised By : Semsettin Yesilyurt 08/03/2023

Quant Time: Aug 03 07:10:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	98294	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	620912	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	591730	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	218991	29.722	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	12.859	95	221035	24.925	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	83.100%		
63) Toluene-d8	10.571	98	1077950	36.877	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	122.933%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	99664	16.075	ug/l	99
3) Chloromethane	2.371	50	161338	21.140	ug/l	98
4) Vinyl Chloride	2.524	62	201964	19.472	ug/l	91
5) Bromomethane	2.971	94	128119	16.525	ug/l	97
6) Chloroethane	3.130	64	122632	18.155	ug/l	97
7) Trichlorofluoromethane	3.506	101	192375	18.082	ug/l	99
8) Diethyl Ether	3.977	74	63363	18.242	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	100406	17.582	ug/l	94
10) 1,1-Dichloroethene	4.353	96	95216	17.387	ug/l	92
11) Methyl Iodide	4.600	142	143157	18.598	ug/l	97
12) Methyl Acetate	5.036	43	77967	8.778	ug/l	99
13) Acrolein	4.195	56	79910	84.483	ug/l	99
14) Acrylonitrile	5.736	53	236582	90.959	ug/l	94
15) Acetone	4.448	58	62863	83.418	ug/l	84
16) Carbon Disulfide	4.724	76	259185	16.755	ug/l	98
17) Allyl chloride	5.042	41	129506	17.320	ug/l	98
18) Methylene Chloride	5.283	84	118910	18.099	ug/l #	94
19) trans-1,2-Dichloroethene	5.795	96	106670	16.847	ug/l	91
20) Diisopropyl ether	6.689	45	297587	17.676	ug/l	99
21) 1,1-Dichloroethane	6.577	63	200145	17.954	ug/l	97
22) cis-1,2-Dichloroethene	7.500	96	124831	17.556	ug/l	99
23) tert-Butyl Alcohol	5.542	59	93268	87.754	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	327213	17.769	ug/l	97
25) Chloroform	7.977	83	219992	18.640	ug/l	98
26) Cyclohexane	8.265	56	148884	18.131	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	153573	16.809	ug/l	99
30) 2-Butanone	7.494	43	289865	80.259	ug/l	99
31) 2,2-Dichloropropane	7.500	77	150202	14.327	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	198663	17.187	ug/l	100
33) Carbon Tetrachloride	8.371	117	175187	17.064	ug/l	94
34) Benzene	8.612	78	470465	17.143	ug/l	97
35) Methacrylonitrile	7.788	41	67499	17.019	ug/l	88
36) 1,2-Dichloroethane	8.677	62	169522	17.588	ug/l	99
37) Trichloroethene	9.359	130	146505	19.023	ug/l	99
38) Methylcyclohexane	9.612	83	182063	19.395	ug/l	94
39) 1,2-Dichloropropane	9.630	63	161724	21.982	ug/l	94
40) Dibromomethane	9.712	93	114024	22.392	ug/l	99
41) Bromodichloromethane	9.894	83	265006	26.031	ug/l	96
42) Vinyl Acetate	6.618	43	926935	79.829	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	116315	15.578	ug/l	98
44) Isopropyl Acetate	8.700	43	214434	16.369	ug/l	100
45) 1,4-Dioxane	9.700	88	54862	455.269	ug/l #	89
46) Methyl methacrylate	9.694	41	139098	23.186	ug/l	94
47) n-amyl Acetate	12.500	43	191536	18.984	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	235247	21.651	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	273464	23.696	ug/l	98
50) 1,1,2-Trichloroethane	11.024	97	144612	20.062	ug/l	97
51) Ethyl methacrylate	10.882	69	218630	22.154	ug/l	91
52) 1,3-Dichloropropane	11.171	76	286223	22.093	ug/l	99
53) Dibromochloromethane	11.365	129	159133	19.542	ug/l	96
54) 1,2-Dibromoethane	11.476	107	146877	20.292	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	358611	114.039	ug/l	99
56) Bromoform	12.588	173	104436	19.601	ug/l #	95
58) 4-Methyl-2-Pentanone	10.453	43	945126	106.710	ug/l	99
59) 2-Hexanone	11.200	43	655804	97.791	ug/l	99
61) Tetrachloroethene	11.112	164	135414	17.403	ug/l	92
62) Toluene	10.635	91	803479	22.574	ug/l	98
64) Chlorobenzene	11.894	112	354745	17.071	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.971	131	157273	19.190	ug/l	98
66) Ethyl Benzene	11.971	91	666205	18.572	ug/l	100
67) m/p-Xylenes	12.076	106	542835	39.616	ug/l	99
68) o-Xylene	12.406	106	304755	21.858	ug/l	95
69) Styrene	12.418	104	466978	20.816	ug/l	98
70) Isopropylbenzene	12.700	105	557847	16.173	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	260036	23.208	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	217892m	23.182	ug/l	
73) Bromobenzene	12.988	156	184266	21.796	ug/l	96
74) n-propylbenzene	13.041	91	856921	22.415	ug/l	99
75) 2-Chlorotoluene	13.129	91	574209	21.749	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	637629	20.705	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	50156	15.268	ug/l	93
78) 4-Chlorotoluene	13.229	91	503601	19.756	ug/l	96
79) tert-butylbenzene	13.441	119	503728	19.005	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	561274	19.083	ug/l	100
81) sec-Butylbenzene	13.623	105	612114	18.017	ug/l	100
82) p-Isopropyltoluene	13.735	119	479783	17.201	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	257298	17.163	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	236348	16.839	ug/l	98
85) n-Butylbenzene	14.059	91	324609	16.783	ug/l	99
86) Hexachloroethane	14.341	117	82260	16.187	ug/l	93
87) 1,2-Dichlorobenzene	14.112	146	239439	17.065	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	25548	13.427	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	43130	10.774	ug/l	93
90) Hexachlorobutadiene	15.506	225	41251	13.526	ug/l	98
91) Naphthalene	15.647	128	131734	10.862	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	58073	12.747	ug/l	98

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

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