

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079996.D
 Acq On : 08 Nov 2023 17:33
 Operator : JC\MD
 Sample : VN1108WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1108WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/09/2023
 Supervised By : Semsettin Yesilyurt 11/09/2023

Quant Time: Nov 09 04:26:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	78561	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	416496	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	390487	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	195297	29.615	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.700%		
60) 4-Bromofluorobenzene	12.853	95	187830	30.079	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.267%		
63) Toluene-d8	10.571	98	554917	29.992	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.967%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	97669	19.067	ug/l	100
3) Chloromethane	2.359	50	131938	20.446	ug/l	98
4) Vinyl Chloride	2.512	62	105799	19.620	ug/l	94
5) Bromomethane	2.959	94	51578	17.469	ug/l	86
6) Chloroethane	3.118	64	55483	17.714	ug/l	98
7) Trichlorofluoromethane	3.495	101	153437	18.960	ug/l	99
8) Diethyl Ether	3.959	74	54183	18.650	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	90415	19.775	ug/l	96
10) 1,1-Dichloroethene	4.342	96	84750	20.953	ug/l	93
11) Methyl Iodide	4.589	142	104044	19.448	ug/l	97
12) Methyl Acetate	5.024	43	203645	19.419	ug/l	99
13) Acrolein	4.183	56	77065	86.981	ug/l	99
14) Acrylonitrile	5.724	53	246327	98.897	ug/l	98
15) Acetone	4.430	58	71118	84.561	ug/l	90
16) Carbon Disulfide	4.712	76	254825	18.450	ug/l	97
17) Allyl chloride	5.024	41	133681	18.914	ug/l	99
18) Methylene Chloride	5.271	84	105702	19.487	ug/l	99
19) trans-1,2-Dichloroethene	5.789	96	97392	19.426	ug/l	96
20) Diisopropyl ether	6.671	45	314859	19.063	ug/l	96
21) 1,1-Dichloroethane	6.571	63	195400	19.820	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	112867	19.399	ug/l	97
23) tert-Butyl Alcohol	5.524	59	69179	102.899	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	287491	19.304	ug/l	99
25) Chloroform	7.965	83	197372	19.394	ug/l	96
26) Cyclohexane	8.259	56	147492	19.017	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	139111	19.461	ug/l	97
30) 2-Butanone	7.488	43	332198	97.311	ug/l	99
31) 2,2-Dichloropropane	7.494	77	157190	20.346	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	169553	20.778	ug/l	99
33) Carbon Tetrachloride	8.371	117	149521	20.846	ug/l	98
34) Benzene	8.612	78	436857	20.573	ug/l	97
35) Methacrylonitrile	7.783	41	75013	20.959	ug/l	93
36) 1,2-Dichloroethane	8.677	62	155883	20.284	ug/l	100
37) Trichloroethene	9.359	130	101927	19.960	ug/l	98
38) Methylcyclohexane	9.606	83	133784	19.933	ug/l	99
39) 1,2-Dichloropropane	9.624	63	113744	20.238	ug/l	99
40) Dibromomethane	9.712	93	73972	20.362	ug/l	98
41) Bromodichloromethane	9.888	83	154134	20.485	ug/l	100
42) Vinyl Acetate	6.606	43	840573	99.131	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	138079	21.531	ug/l	96
44) Isopropyl Acetate	8.694	43	216191	20.689	ug/l	95
45) 1,4-Dioxane	9.700	88	35947	446.393	ug/l	96
46) Methyl methacrylate	9.682	41	103193	20.544	ug/l	96
47) n-amyl Acetate	12.500	43	170581	20.323	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	152642	19.864	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	171240	20.158	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	103655	20.916	ug/l	95
51) Ethyl methacrylate	10.876	69	143441	20.138	ug/l	96
52) 1,3-Dichloropropane	11.165	76	180998	20.429	ug/l	99
53) Dibromochloromethane	11.365	129	106372	20.064	ug/l	100
54) 1,2-Dibromoethane	11.471	107	100475	20.191	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	339499	103.629	ug/l	99
56) Bromoform	12.582	173	70310	20.238	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	676706	103.730	ug/l	99
59) 2-Hexanone	11.200	43	495642	99.735	ug/l	98
61) Tetrachloroethene	11.106	164	94282	20.594	ug/l	94
62) Toluene	10.635	91	454718	20.134	ug/l	97
64) Chlorobenzene	11.894	112	271838	20.169	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	101152	20.460	ug/l	96
66) Ethyl Benzene	11.965	91	471653	19.874	ug/l	98
67) m/p-Xylenes	12.076	106	368739	41.733	ug/l	97
68) o-Xylene	12.400	106	171251	20.221	ug/l	98
69) Styrene	12.418	104	285905	20.393	ug/l	98
70) Isopropylbenzene	12.700	105	428569	20.287	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	148090	20.582	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	137724m	20.601	ug/l	
73) Bromobenzene	12.982	156	103761	19.979	ug/l	95
74) n-propylbenzene	13.041	91	511055	20.223	ug/l	98
75) 2-Chlorotoluene	13.129	91	323717	20.153	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	359299	20.564	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	42081	19.223	ug/l	96
78) 4-Chlorotoluene	13.223	91	325808	20.422	ug/l	98
79) tert-butylbenzene	13.441	119	277107	20.251	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	354133	20.670	ug/l	98
81) sec-Butylbenzene	13.617	105	388341	20.105	ug/l	99
82) p-Isopropyltoluene	13.735	119	317621	20.248	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	191372	20.222	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	184343	19.846	ug/l	99
85) n-Butylbenzene	14.059	91	253383	19.313	ug/l	97
86) Hexachloroethane	14.335	117	60731	19.909	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	186203	20.596	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	26124	19.854	ug/l	99
89) 1,2,4-Trichlorobenzene	15.847	180	79827	19.059	ug/l	96
90) Hexachlorobutadiene	15.506	225	41063	19.893	ug/l	98
91) Naphthalene	15.647	128	243206	18.094	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	79827	19.059	ug/l	96

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

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