

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079597.D
 Acq On : 18 Oct 2023 13:01
 Operator : JC\MD
 Sample : VN1018WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1018WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/19/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Quant Time: Oct 19 06:13:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	21128	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	154940	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	190258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	87878	29.254	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.500%		
60) 4-Bromofluorobenzene	12.853	95	106850	30.710	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.367%		
63) Toluene-d8	10.570	98	245013	30.053	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.167%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	59759	19.504	ug/l	94
3) Chloromethane	2.365	50	73132	18.416	ug/l	97
4) Vinyl Chloride	2.518	62	82501	19.249	ug/l	96
5) Bromomethane	2.959	94	47675	17.941	ug/l	98
6) Chloroethane	3.124	64	54095	17.932	ug/l	94
7) Trichlorofluoromethane	3.506	101	102207	19.543	ug/l	96
8) Diethyl Ether	3.965	74	35921	18.951	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	56544	18.897	ug/l	99
10) 1,1-Dichloroethene	4.347	96	54280	19.067	ug/l	90
11) Methyl Iodide	4.594	142	59588	18.905	ug/l	95
12) Methyl Acetate	5.030	43	130224	18.975	ug/l	98
13) Acrolein	4.183	56	59341	104.601	ug/l	96
14) Acrylonitrile	5.724	53	156455	95.197	ug/l	99
15) Acetone	4.436	58	49676	95.416	ug/l	96
16) Carbon Disulfide	4.712	76	156638	18.044	ug/l	97
17) Allyl chloride	5.030	41	81356	18.536	ug/l	98
18) Methylene Chloride	5.277	84	65858	18.795	ug/l	96
19) trans-1,2-Dichloroethene	5.794	96	60719	19.065	ug/l	96
20) Diisopropyl ether	6.677	45	200326	19.248	ug/l	96
21) 1,1-Dichloroethane	6.571	63	119994	18.974	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	69533	18.955	ug/l #	84
23) tert-Butyl Alcohol	5.536	59	46861	85.268	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	180345	18.881	ug/l #	79
25) Chloroform	7.971	83	124338	19.458	ug/l	88
26) Cyclohexane	8.265	56	87623	18.329	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	91050	20.109	ug/l	98
30) 2-Butanone	7.488	43	221246	97.480	ug/l	99
31) 2,2-Dichloropropane	7.500	77	98038	19.204	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	106062	19.708	ug/l	97
33) Carbon Tetrachloride	8.371	117	90926	19.866	ug/l	96
34) Benzene	8.612	78	271817	19.759	ug/l	99
35) Methacrylonitrile	7.782	41	45981	19.259	ug/l	93
36) 1,2-Dichloroethane	8.671	62	95562	19.455	ug/l	99
37) Trichloroethene	9.359	130	62792	19.527	ug/l	95
38) Methylcyclohexane	9.606	83	81235	18.634	ug/l	98
39) 1,2-Dichloropropane	9.623	63	72480	19.965	ug/l	100
40) Dibromomethane	9.712	93	47826	20.074	ug/l	97
41) Bromodichloromethane	9.894	83	99805	20.214	ug/l	96
42) Vinyl Acetate	6.612	43	549899	95.511	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	88712m	20.786	ug/l	
44) Isopropyl Acetate	8.694	43	140781	18.556	ug/l	98
45) 1,4-Dioxane	9.700	88	23437	394.651	ug/l #	91
46) Methyl methacrylate	9.682	41	54797	16.281	ug/l	91
47) n-amyl Acetate	12.500	43	102683	18.753	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	94844	19.001	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	107249	19.650	ug/l	93
50) 1,1,2-Trichloroethane	11.018	97	65949	19.953	ug/l	98
51) Ethyl methacrylate	10.876	69	87437	19.174	ug/l	97
52) 1,3-Dichloropropane	11.165	76	115195	19.673	ug/l	98
53) Dibromochloromethane	11.365	129	66605	19.717	ug/l	99
54) 1,2-Dibromoethane	11.470	107	61516	18.865	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	175940	101.124	ug/l	99
56) Bromoform	12.582	173	42578	19.053	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	439926	99.134	ug/l	100
59) 2-Hexanone	11.200	43	314316	96.545	ug/l	100
61) Tetrachloroethene	11.106	164	51686	19.786	ug/l	97
62) Toluene	10.635	91	288708	19.855	ug/l	99
64) Chlorobenzene	11.894	112	163852	19.429	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	63143	19.655	ug/l	96
66) Ethyl Benzene	11.970	91	292493	19.523	ug/l	98
67) m/p-Xylenes	12.076	106	224518	40.518	ug/l	96
68) o-Xylene	12.406	106	104996	19.821	ug/l	98
69) Styrene	12.412	104	169905	20.204	ug/l	97
70) Isopropylbenzene	12.700	105	268760	19.770	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	97808	20.234	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	83470m	19.015	ug/l	
73) Bromobenzene	12.982	156	63718	19.952	ug/l	98
74) n-propylbenzene	13.041	91	322110	20.352	ug/l	100
75) 2-Chlorotoluene	13.129	91	196041	19.924	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	224099	20.165	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	24766	18.485	ug/l	96
78) 4-Chlorotoluene	13.223	91	186571	20.069	ug/l	99
79) tert-butylbenzene	13.441	119	173675	19.437	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	219167	20.353	ug/l	99
81) sec-Butylbenzene	13.623	105	254166	20.262	ug/l	100
82) p-Isopropyltoluene	13.735	119	200759	20.176	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	109217	20.798	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	98531	19.572	ug/l	99
85) n-Butylbenzene	14.059	91	148987	19.164	ug/l	99
86) Hexachloroethane	14.335	117	40589	18.869	ug/l	100
87) 1,2-Dichlorobenzene	14.111	146	104040	19.932	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.729	75	14234	19.325	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	32810	17.834	ug/l	96
90) Hexachlorobutadiene	15.505	225	24620	18.893	ug/l	99
91) Naphthalene	15.647	128	72246	15.223	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	32810	17.834	ug/l	96

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

