

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
 Data File : VN079621.D
 Acq On : 20 Oct 2023 12:05
 Operator : JC\MD
 Sample : VN1020WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1020WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/23/2023
 Supervised By : Semsettin Yesilyurt 10/24/2023

Quant Time: Oct 20 23:47:21 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	7.812	128	20006	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	141141	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	171736	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	84425	29.681	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.933%		
60) 4-Bromofluorobenzene	12.853	95	96947	30.869	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.900%		
63) Toluene-d8	10.571	98	223617	30.387	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	55581	19.158	ug/l	92
3) Chloromethane	2.365	50	69242	18.414	ug/l	99
4) Vinyl Chloride	2.518	62	73786	18.182	ug/l	100
5) Bromomethane	2.959	94	45933	18.254	ug/l	95
6) Chloroethane	3.124	64	53297	18.659	ug/l	95
7) Trichlorofluoromethane	3.500	101	110328	22.279	ug/l	95
8) Diethyl Ether	3.965	74	36081	20.103	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	55830	19.705	ug/l	97
10) 1,1-Dichloroethene	4.347	96	50288	18.655	ug/l	93
11) Methyl Iodide	4.594	142	57089	19.128	ug/l	90
12) Methyl Acetate	5.024	43	130456	20.075	ug/l	97
13) Acrolein	4.183	56	53224	99.080	ug/l	98
14) Acrylonitrile	5.724	53	158797	102.041	ug/l	100
15) Acetone	4.430	58	48742	98.872	ug/l	92
16) Carbon Disulfide	4.712	76	148154	18.024	ug/l	97
17) Allyl chloride	5.030	41	77400	18.623	ug/l	99
18) Methylene Chloride	5.283	84	65861	19.850	ug/l	92
19) trans-1,2-Dichloroethene	5.794	96	58454	19.383	ug/l	91
20) Diisopropyl ether	6.677	45	204160	20.717	ug/l	96
21) 1,1-Dichloroethane	6.571	63	116119	19.391	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	68507	19.723	ug/l	95
23) tert-Butyl Alcohol	5.524	59	47875	91.999	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	178750	19.763	ug/l	99
25) Chloroform	7.971	83	121495	20.079	ug/l	90
26) Cyclohexane	8.259	56	84787	18.730	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	85444	20.716	ug/l	98
30) 2-Butanone	7.488	43	217429	105.164	ug/l	99
31) 2,2-Dichloropropane	7.500	77	94057	20.225	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	99530	20.302	ug/l	99
33) Carbon Tetrachloride	8.371	117	85410	20.485	ug/l	99
34) Benzene	8.612	78	259727	20.726	ug/l	99
35) Methacrylonitrile	7.782	41	46265	21.272	ug/l	94
36) 1,2-Dichloroethane	8.677	62	98331	21.976	ug/l	99
37) Trichloroethene	9.359	130	59668	20.370	ug/l	98
38) Methylcyclohexane	9.606	83	74554	18.774	ug/l	98
39) 1,2-Dichloropropane	9.624	63	69778	21.100	ug/l	97
40) Dibromomethane	9.712	93	49017	22.585	ug/l	96
41) Bromodichloromethane	9.888	83	96306	21.412	ug/l	100
42) Vinyl Acetate	6.612	43	556601	106.126	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	79438	20.433	ug/l	98
44) Isopropyl Acetate	8.694	43	139686	20.212	ug/l	97
45) 1,4-Dioxane	9.700	88	21357	394.786	ug/l	94
46) Methyl methacrylate	9.688	41	63984	20.869	ug/l	95
47) n-amyl Acetate	12.500	43	100736	20.196	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	94949	20.882	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	102968	20.710	ug/l	96
50) 1,1,2-Trichloroethane	11.023	97	67420	22.392	ug/l	98
51) Ethyl methacrylate	10.882	69	85836	20.663	ug/l	95
52) 1,3-Dichloropropane	11.165	76	112341	21.062	ug/l	100
53) Dibromochloromethane	11.365	129	66323	21.553	ug/l	99
54) 1,2-Dibromoethane	11.476	107	62807	21.145	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	152293	96.090	ug/l	99
56) Bromoform	12.582	173	43656	21.445	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	435095	108.620	ug/l	99
59) 2-Hexanone	11.200	43	311093	105.861	ug/l	99
61) Tetrachloroethene	11.106	164	48934	20.753	ug/l	94
62) Toluene	10.635	91	276309	21.052	ug/l	99
64) Chlorobenzene	11.894	112	158409	20.810	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	62736	21.635	ug/l	98
66) Ethyl Benzene	11.970	91	279174	20.644	ug/l	99
67) m/p-Xylenes	12.076	106	212442	42.473	ug/l	94
68) o-Xylene	12.400	106	101142	21.152	ug/l	99
69) Styrene	12.418	104	164505	21.671	ug/l	97
70) Isopropylbenzene	12.700	105	252299	20.560	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	98050	22.472	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	83938m	21.184	ug/l	
73) Bromobenzene	12.988	156	61845	21.454	ug/l	98
74) n-propylbenzene	13.041	91	304687	21.327	ug/l	99
75) 2-Chlorotoluene	13.129	91	187640	21.127	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	215218	21.454	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	26531	21.939	ug/l	95
78) 4-Chlorotoluene	13.229	91	177620	21.167	ug/l	100
79) tert-butylbenzene	13.441	119	166062	20.589	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	207539	21.352	ug/l	100
81) sec-Butylbenzene	13.617	105	242306	21.400	ug/l	99
82) p-Isopropyltoluene	13.735	119	190302	21.188	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	100330	21.166	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	93985	20.682	ug/l	99
85) n-Butylbenzene	14.059	91	141491	20.163	ug/l	99
86) Hexachloroethane	14.335	117	38643	19.902	ug/l	96
87) 1,2-Dichlorobenzene	14.111	146	99475	21.113	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13468	20.257	ug/l	99
89) 1,2,4-Trichlorobenzene	15.847	180	28915	17.412	ug/l	98
90) Hexachlorobutadiene	15.506	225	24278	20.639	ug/l	97
91) Naphthalene	15.647	128	60862	14.208	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	28915	17.412	ug/l	98

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

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