

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
 Data File : VN080044.D
 Acq On : 10 Nov 2023 10:58
 Operator : JC\MD
 Sample : VN1110WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1110WBS01

Quant Time: Nov 11 00:26:41 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

Manual Integrations APPROVED

Reviewed By : John Carlone 11/13/2023
 Supervised By : Mahesh Dadoda 11/13/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	86439	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	456224	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	423951	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	216020	29.772	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.233%		
60) 4-Bromofluorobenzene	12.853	95	207378	30.588	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.967%		
63) Toluene-d8	10.570	98	615428	30.637	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.133%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	101869	18.075	ug/l	98
3) Chloromethane	2.359	50	97720	13.763	ug/l	99
4) Vinyl Chloride	2.512	62	100787	16.987	ug/l	96
5) Bromomethane	2.959	94	50819	15.644	ug/l	96
6) Chloroethane	3.124	64	62516	18.141	ug/l #	89
7) Trichlorofluoromethane	3.500	101	167225	18.780	ug/l	93
8) Diethyl Ether	3.959	74	54487	17.046	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	95727	19.029	ug/l	97
10) 1,1-Dichloroethene	4.347	96	87801	19.729	ug/l	85
11) Methyl Iodide	4.588	142	101526	17.247	ug/l	99
12) Methyl Acetate	5.024	43	200220	17.353	ug/l	98
13) Acrolein	4.177	56	81214	83.310	ug/l	100
14) Acrylonitrile	5.724	53	234366	85.519	ug/l	99
15) Acetone	4.424	58	71193	76.935	ug/l	83
16) Carbon Disulfide	4.712	76	260652	17.152	ug/l	98
17) Allyl chloride	5.030	41	134668	17.317	ug/l	94
18) Methylene Chloride	5.283	84	107922	18.083	ug/l	98
19) trans-1,2-Dichloroethene	5.794	96	97477	17.670	ug/l	96
20) Diisopropyl ether	6.677	45	320069	17.612	ug/l	97
21) 1,1-Dichloroethane	6.571	63	197631	18.219	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	111282	17.384	ug/l	99
23) tert-Butyl Alcohol	5.518	59	59126m	79.930	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	280968	17.146	ug/l	99
25) Chloroform	7.965	83	205051	18.312	ug/l	95
26) Cyclohexane	8.259	56	142843	16.739	ug/l #	96
29) 1,1-Dichloropropene	8.376	75	148650	18.985	ug/l	97
30) 2-Butanone	7.482	43	311322	83.254	ug/l	99
31) 2,2-Dichloropropane	7.488	77	162902	19.249	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	174954	19.573	ug/l	99
33) Carbon Tetrachloride	8.365	117	153259	19.507	ug/l	96
34) Benzene	8.612	78	440315	18.930	ug/l	96
35) Methacrylonitrile	7.782	41	67095	17.114	ug/l	95
36) 1,2-Dichloroethane	8.676	62	162241	19.273	ug/l	100
37) Trichloroethene	9.359	130	106795	19.092	ug/l	98
38) Methylcyclohexane	9.606	83	131583	17.897	ug/l	98
39) 1,2-Dichloropropane	9.623	63	116112	18.860	ug/l	97
40) Dibromomethane	9.712	93	75934	19.081	ug/l	97
41) Bromodichloromethane	9.888	83	159436	19.344	ug/l	99
42) Vinyl Acetate	6.606	43	817984	88.066	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	132870	18.915	ug/l	98
44) Isopropyl Acetate	8.694	43	206149	18.010	ug/l	96
45) 1,4-Dioxane	9.700	88	31397	355.939	ug/l	99
46) Methyl methacrylate	9.682	41	96919	17.615	ug/l	97
47) n-amyl Acetate	12.494	43	164654	17.909	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	155241	18.443	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	174242	18.725	ug/l	93
50) 1,1,2-Trichloroethane	11.018	97	105484	19.432	ug/l	97
51) Ethyl methacrylate	10.876	69	134127	17.190	ug/l	96
52) 1,3-Dichloropropane	11.165	76	185612	19.125	ug/l	99
53) Dibromochloromethane	11.359	129	109550	18.864	ug/l	100
54) 1,2-Dibromoethane	11.470	107	101479	18.617	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	354673	98.833	ug/l	99
56) Bromoform	12.582	173	70217	18.452	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	636534	89.871	ug/l	98
59) 2-Hexanone	11.200	43	469380	86.995	ug/l	99
61) Tetrachloroethene	11.106	164	93034	18.718	ug/l	95
62) Toluene	10.635	91	470510	19.189	ug/l	100
64) Chlorobenzene	11.894	112	273740	18.707	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.964	131	101805	18.966	ug/l	99
66) Ethyl Benzene	11.964	91	477862	18.546	ug/l	100
67) m/p-Xylenes	12.076	106	377301	39.332	ug/l	97
68) o-Xylene	12.400	106	170562	18.550	ug/l	98
69) Styrene	12.417	104	289735	19.035	ug/l	98
70) Isopropylbenzene	12.700	105	431977	18.835	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	143734	18.400	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	136878m	18.858	ug/l	
73) Bromobenzene	12.982	156	107926	19.141	ug/l	99
74) n-propylbenzene	13.041	91	520516	18.971	ug/l	99
75) 2-Chlorotoluene	13.129	91	330365	18.943	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	367071	19.350	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	43286	18.213	ug/l	97
78) 4-Chlorotoluene	13.223	91	331593	19.144	ug/l	99
79) tert-butylbenzene	13.441	119	274865	18.502	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	364041	19.571	ug/l	100
81) sec-Butylbenzene	13.617	105	401081	19.126	ug/l	100
82) p-Isopropyltoluene	13.735	119	324404	19.048	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	196957	19.170	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	192097	19.049	ug/l	97
85) n-Butylbenzene	14.058	91	259224	18.198	ug/l	97
86) Hexachloroethane	14.335	117	62337	18.823	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	186207	18.970	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	24152	16.907	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	97883	21.525	ug/l	98
90) Hexachlorobutadiene	15.505	225	45436	20.274	ug/l	98
91) Naphthalene	15.647	128	269951	18.498	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	97883	21.525	ug/l	98

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

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