

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090823\
 Data File : VN079190.D
 Acq On : 08 Sep 2023 11:52
 Operator : JC\MD
 Sample : VN0908WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0908WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2023
 Supervised By : Mahesh Dadoda 09/11/2023

Quant Time: Sep 08 17:19:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	30694	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	165309	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	150057	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	67852	29.423	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.067%		
60) 4-Bromofluorobenzene	12.853	95	68727	31.084	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.600%		
63) Toluene-d8	10.571	98	213429	30.435	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.433%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	35445	20.705	ug/l	99
3) Chloromethane	2.365	50	35661	20.775	ug/l	97
4) Vinyl Chloride	2.512	62	36414	21.442	ug/l	97
5) Bromomethane	2.947	94	22400	21.490	ug/l	97
6) Chloroethane	3.112	64	25626	24.638	ug/l	93
7) Trichlorofluoromethane	3.494	101	52714	26.072	ug/l	98
8) Diethyl Ether	3.965	74	18944	25.554	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	29044	26.067	ug/l	99
10) 1,1-Dichloroethene	4.336	96	28370	26.278	ug/l	93
11) Methyl Iodide	4.589	142	33375	24.542	ug/l	99
12) Methyl Acetate	5.030	43	62753	24.942	ug/l	98
13) Acrolein	4.183	56	26292	114.740	ug/l	96
14) Acrylonitrile	5.724	53	97778	132.467	ug/l #	90
15) Acetone	4.430	58	26989	140.165	ug/l	99
16) Carbon Disulfide	4.712	76	81103	25.423	ug/l	97
17) Allyl chloride	5.024	41	43357	24.993	ug/l	94
18) Methylene Chloride	5.283	84	38510	26.595	ug/l	93
19) trans-1,2-Dichloroethene	5.794	96	37553	27.802	ug/l	97
20) Diisopropyl ether	6.683	45	112944	21.808	ug/l #	97
21) 1,1-Dichloroethane	6.571	63	69650	22.957	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	41979	19.872	ug/l	98
23) tert-Butyl Alcohol	5.530	59	32480	114.385	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	115248	27.048	ug/l	99
25) Chloroform	7.971	83	70525	19.277	ug/l	94
26) Cyclohexane	8.265	56	50317	18.289	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	51402	19.394	ug/l	98
30) 2-Butanone	7.488	43	126668	95.017	ug/l	98
31) 2,2-Dichloropropane	7.494	77	58020	21.947	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	61644	19.742	ug/l	100
33) Carbon Tetrachloride	8.365	117	53930	20.106	ug/l	96
34) Benzene	8.612	78	157455	18.698	ug/l	99
35) Methacrylonitrile	7.788	41	25465	17.741	ug/l	95
36) 1,2-Dichloroethane	8.671	62	51999	18.723	ug/l	100
37) Trichloroethene	9.359	130	39581	19.886	ug/l	98
38) Methylcyclohexane	9.606	83	49939	18.847	ug/l	98
39) 1,2-Dichloropropane	9.629	63	41369	19.045	ug/l	94
40) Dibromomethane	9.718	93	27433	19.151	ug/l	97
41) Bromodichloromethane	9.894	83	56150	19.664	ug/l	98
42) Vinyl Acetate	6.612	43	342932	108.318	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	49536	19.565	ug/l	98
44) Isopropyl Acetate	8.700	43	80357	17.644	ug/l	98
45) 1,4-Dioxane	9.700	88	16453	362.920	ug/l #	93
46) Methyl methacrylate	9.688	41	35714	17.552	ug/l	96
47) n-amyl Acetate	12.500	43	60882	19.007	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	57915	18.747	ug/l	91
49) cis-1,3-Dichloropropene	10.318	75	65148	20.217	ug/l	94
50) 1,1,2-Trichloroethane	11.023	97	39706	19.758	ug/l	97
51) Ethyl methacrylate	10.882	69	57640	18.572	ug/l	96
52) 1,3-Dichloropropane	11.170	76	68573	19.987	ug/l	100
53) Dibromochloromethane	11.365	129	42290	20.065	ug/l	98
54) 1,2-Dibromoethane	11.476	107	38611	18.921	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	126013	114.270	ug/l	98
56) Bromoform	12.582	173	29587	20.145	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	246456	89.502	ug/l	99
59) 2-Hexanone	11.200	43	179642	92.893	ug/l	99
61) Tetrachloroethene	11.112	164	31798	19.475	ug/l	94
62) Toluene	10.635	91	169319	19.379	ug/l	99
64) Chlorobenzene	11.900	112	99778	19.576	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	39306	20.143	ug/l	99
66) Ethyl Benzene	11.970	91	176600	20.075	ug/l	97
67) m/p-Xylenes	12.076	106	134101	40.513	ug/l	99
68) o-Xylene	12.406	106	64969	20.352	ug/l	99
69) Styrene	12.417	104	105645	20.749	ug/l	98
70) Isopropylbenzene	12.700	105	161180	19.864	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	56519	18.620	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	47213m	18.486	ug/l	
73) Bromobenzene	12.982	156	40593	20.027	ug/l	95
74) n-propylbenzene	13.041	91	199622	21.592	ug/l	99
75) 2-Chlorotoluene	13.129	91	119654	20.184	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	133437	19.889	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	17224	19.155	ug/l	99
78) 4-Chlorotoluene	13.229	91	113860	20.341	ug/l	98
79) tert-butylbenzene	13.441	119	111700	20.283	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	132724	20.714	ug/l	100
81) sec-Butylbenzene	13.623	105	152037	20.178	ug/l	99
82) p-Isopropyltoluene	13.735	119	124899	20.985	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	65529	20.357	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	61185	20.267	ug/l	99
85) n-Butylbenzene	14.064	91	94329	20.809	ug/l	99
86) Hexachloroethane	14.335	117	24136	20.482	ug/l	96
87) 1,2-Dichlorobenzene	14.111	146	66037	20.788	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10526	20.516	ug/l	96
89) 1,2,4-Trichlorobenzene	15.847	180	25374	18.666	ug/l	99
90) Hexachlorobutadiene	15.511	225	17457	21.142	ug/l	97
91) Naphthalene	15.647	128	59226	16.673	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	25374	18.666	ug/l	99

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

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