

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079581.D
 Acq On : 17 Oct 2023 14:59
 Operator : JC\MD
 Sample : 04699-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2023

Quant Time: Oct 18 02:29:49 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

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/18/2023
 Supervised By :Mahesh Dadoda 10/20/2023

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

Internal Standards						
1) Bromochloromethane	7.824	128	18360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	130321	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	151803	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	76008	29.118	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.067%		
60) 4-Bromofluorobenzene	12.853	95	68914	24.825	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	82.733%		
63) Toluene-d8	10.571	98	190915	29.350	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.833%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	6234	2.341	ug/l	93
3) Chloromethane	2.365	50	10076	2.920	ug/l	99
4) Vinyl Chloride	2.518	62	8670	2.328	ug/l	95
5) Bromomethane	2.959	94	7014	3.037	ug/l	100
6) Chloroethane	3.124	64	7098m	2.708	ug/l	
7) Trichlorofluoromethane	3.506	101	11232	2.471	ug/l	96
8) Diethyl Ether	3.965	74	3637	2.208	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.377	101	6423m	2.470	ug/l	
10) 1,1-Dichloroethene	4.353	96	5948m	2.404	ug/l	
11) Methyl Iodide	4.589	142	5464m	1.995	ug/l	
12) Methyl Acetate	5.042	43	15688	2.631	ug/l	97
13) Acrolein	4.194	56	5356	10.864	ug/l #	73
14) Acrylonitrile	5.730	53	16299	11.412	ug/l	71
15) Acetone	4.442	58	5440m	12.024	ug/l	
16) Carbon Disulfide	4.712	76	18425	2.443	ug/l #	94
17) Allyl chloride	5.024	41	8462m	2.219	ug/l	
18) Methylene Chloride	5.283	84	8356	2.744	ug/l #	78
19) trans-1,2-Dichloroethene	5.789	96	6571	2.374	ug/l #	81
20) Diisopropyl ether	6.677	45	19643m	2.172	ug/l	
21) 1,1-Dichloroethane	6.565	63	12688m	2.309	ug/l	
22) cis-1,2-Dichloroethene	7.494	96	7196	2.257	ug/l #	83
23) tert-Butyl Alcohol	5.524	59	6926	14.503	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	18156m	2.187	ug/l	
25) Chloroform	7.977	83	13396	2.412	ug/l	97
26) Cyclohexane	8.265	56	8447m	2.033	ug/l	
29) 1,1-Dichloropropene	8.377	75	8679	2.279	ug/l	74
30) 2-Butanone	7.500	43	22864	11.977	ug/l #	80
31) 2,2-Dichloropropane	7.494	77	11259	2.622	ug/l #	84
32) 1,1,1-Trichloroethane	8.171	97	11088	2.450	ug/l	96
33) Carbon Tetrachloride	8.365	117	9722	2.525	ug/l	93
34) Benzene	8.618	78	29251	2.528	ug/l	97
35) Methacrylonitrile	7.794	41	4687m	2.334	ug/l	
36) 1,2-Dichloroethane	8.682	62	10611	2.568	ug/l #	83
37) Trichloroethene	9.353	130	6895	2.549	ug/l	90
38) Methylcyclohexane	9.606	83	7470	2.037	ug/l	89
39) 1,2-Dichloropropane	9.624	63	7969	2.610	ug/l	98
40) Dibromomethane	9.712	93	5312	2.651	ug/l	97
41) Bromodichloromethane	9.888	83	10536	2.537	ug/l	96
42) Vinyl Acetate	6.606	43	50989m	10.529	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	10054	2.801	ug/l #	91
44) Isopropyl Acetate	8.694	43	15485	2.427	ug/l	91
45) 1,4-Dioxane	9.700	88	2292m	45.885	ug/l	
46) Methyl methacrylate	9.688	41	5926	2.093	ug/l	86
47) n-amyl Acetate	12.494	43	7288	1.582	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	9108	2.169	ug/l	94
49) cis-1,3-Dichloropropene	10.312	75	9787	2.132	ug/l	98
50) 1,1,2-Trichloroethane	11.023	97	7153	2.573	ug/l	97
51) Ethyl methacrylate	10.882	69	7760	2.023	ug/l	92
52) 1,3-Dichloropropane	11.171	76	11136	2.261	ug/l	93
53) Dibromochloromethane	11.365	129	7077	2.491	ug/l	100
54) 1,2-Dibromoethane	11.470	107	6245	2.277	ug/l	92
55) 2-Chloroethyl vinyl ether	10.165	63	10665	7.288	ug/l #	88
56) Bromoform	12.588	173	4278	2.276	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	40425	11.417	ug/l	98
59) 2-Hexanone	11.206	43	28363	10.919	ug/l	94
61) Tetrachloroethene	11.106	164	5679	2.725	ug/l	85
62) Toluene	10.635	91	28897	2.491	ug/l	99
64) Chlorobenzene	11.894	112	17619	2.618	ug/l #	87
65) 1,1,1,2-Tetrachloroethane	11.959	131	6521	2.544	ug/l	95
66) Ethyl Benzene	11.970	91	26473	2.215	ug/l	93
67) m/p-Xylenes	12.076	106	18250	4.128	ug/l	97
68) o-Xylene	12.400	106	7763	1.837	ug/l	91
69) Styrene	12.412	104	11142	1.661	ug/l #	87
70) Isopropylbenzene	12.706	105	21902	2.019	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	10087	2.615	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	8398m	2.398	ug/l	
73) Bromobenzene	12.988	156	5639	2.213	ug/l	92
74) n-propylbenzene	13.035	91	23206	1.838	ug/l	97
75) 2-Chlorotoluene	13.129	91	14796	1.885	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	15356	1.732	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	2148	2.009	ug/l	90
78) 4-Chlorotoluene	13.229	91	13168	1.775	ug/l	98
79) tert-butylbenzene	13.441	119	13607	1.909	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	13217	1.538	ug/l	97
81) sec-Butylbenzene	13.617	105	17942	1.793	ug/l	99
82) p-Isopropyltoluene	13.735	119	12436	1.566	ug/l	96
83) 1,3-Dichlorobenzene	13.741	146	7297	1.742	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	6575	1.637	ug/l	95
85) n-Butylbenzene	14.059	91	8681	1.399	ug/l	93
86) Hexachloroethane	14.341	117	4136	2.410	ug/l	100
87) 1,2-Dichlorobenzene	14.111	146	7551	1.813	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.717	75	1194	2.032	ug/l #	78
89) 1,2,4-Trichlorobenzene	15.847	180	1956m	1.333	ug/l	
90) Hexachlorobutadiene	15.511	225	2190	2.106	ug/l	78
91) Naphthalene	15.647	128	5151	1.360	ug/l #	78
92) 1,2,3-Trichlorobenzene	15.847	180	1956m	1.333	ug/l	

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

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