

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101322\
 Data File : VN074893.D
 Acq On : 13 Oct 2022 13:26
 Operator : JC\MD
 Sample : N4955-09 2.5 MDL
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2022DL

Quant Time: Oct 14 05:04:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/14/2022
 Supervised By : Mahesh Dadoda 10/14/2022

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

Internal Standards						
1) Bromochloromethane	7.829	128	75735	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	412901	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	359198	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	215888	30.448	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.500%			
60) 4-Bromofluorobenzene	12.853	95	165258	25.944	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 86.467%			
63) Toluene-d8	10.570	98	647330	31.225	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.147	85	13316	3.166	ug/l	90
3) Chloromethane	2.383	50	20571	3.024	ug/l	90
4) Vinyl Chloride	2.530	62	27636	2.759	ug/l #	65
5) Bromomethane	2.953	94	22592m	2.845	ug/l	
6) Chloroethane	3.136	64	21281m	2.833	ug/l	
7) Trichlorofluoromethane	3.518	101	21856m	2.927	ug/l	
8) Diethyl Ether	3.988	74	9548	2.742	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.400	101	14606m	3.109	ug/l	
10) 1,1-Dichloroethene	4.359	96	14182m	3.068	ug/l	
11) Methyl Iodide	4.624	142	14073m	2.439	ug/l	
12) Methyl Acetate	5.059	43	31094	2.791	ug/l #	58
13) Acrolein	4.218	56	18813m	11.952	ug/l	
14) Acrylonitrile	5.741	53	54249	13.056	ug/l	64
15) Acetone	4.459	58	16656m	14.626	ug/l	
16) Carbon Disulfide	4.735	76	29323	2.469	ug/l	97
17) Allyl chloride	5.041	41	22667m	2.463	ug/l	
18) Methylene Chloride	5.300	84	19648	3.278	ug/l	88
19) trans-1,2-Dichloroethene	5.806	96	13208m	2.603	ug/l	
20) Diisopropyl ether	6.688	45	48119m	2.240	ug/l	
21) 1,1-Dichloroethane	6.582	63	28141m	2.575	ug/l	
22) cis-1,2-Dichloroethene	7.506	96	16213m	2.552	ug/l	
23) tert-Butyl Alcohol	5.547	59	28046m	16.019	ug/l	
24) Methyl tert-Butyl Ether	5.830	73	45311m	2.347	ug/l	
25) Chloroform	7.976	83	29411	2.710	ug/l #	71
26) Cyclohexane	8.271	56	22836	2.379	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	19025m	2.554	ug/l	
30) 2-Butanone	7.500	43	80733	13.582	ug/l	95
31) 2,2-Dichloropropane	7.506	77	26059m	2.857	ug/l	
32) 1,1,1-Trichloroethane	8.188	97	24207m	2.709	ug/l	
33) Carbon Tetrachloride	8.376	117	18268	2.490	ug/l #	71
34) Benzene	8.612	78	64417m	2.616	ug/l	
35) Methacrylonitrile	7.788	41	14549m	2.381	ug/l	
36) 1,2-Dichloroethane	8.682	62	22613	2.757	ug/l #	84
37) Trichloroethene	9.353	130	11988m	2.341	ug/l	
38) Methylcyclohexane	9.600	83	24866m	2.747	ug/l	
39) 1,2-Dichloropropane	9.623	63	16360	2.563	ug/l	96
40) Dibromomethane	9.723	93	10244	2.422	ug/l	90
41) Bromodichloromethane	9.900	83	22602	2.743	ug/l #	78
42) Vinyl Acetate	6.624	43	223480m	12.621	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.576	43	26709m	2.311	ug/l	
44) Isopropyl Acetate	8.694	43	43817	2.452	ug/l	93
45) 1,4-Dioxane	9.694	88	7287m	44.465	ug/l	
46) Methyl methacrylate	9.682	41	18772	2.425	ug/l	72
47) n-amyl Acetate	12.500	43	29725	1.901	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	21592m	2.284	ug/l	
49) cis-1,3-Dichloropropene	10.317	75	23330	2.328	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	16207	2.603	ug/l	95
51) Ethyl methacrylate	10.882	69	23221	2.194	ug/l	91
52) 1,3-Dichloropropane	11.170	76	24760	2.304	ug/l	93
53) Dibromochloromethane	11.364	129	14661	2.404	ug/l	76
54) 1,2-Dibromoethane	11.470	107	16717	2.795	ug/l	85
55) 2-Chloroethyl vinyl ether	10.165	63	39374	9.509	ug/l #	80
56) Bromoform	12.582	173	8907	2.027	ug/l #	95
58) 4-Methyl-2-Pentanone	10.447	43	141604	12.676	ug/l	98
59) 2-Hexanone	11.200	43	105043	12.218	ug/l	94
61) Tetrachloroethene	11.106	164	9518	2.486	ug/l #	76
62) Toluene	10.629	91	65542	2.641	ug/l	97
64) Chlorobenzene	11.894	112	41311	2.929	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.964	131	14041	2.643	ug/l	93
66) Ethyl Benzene	11.970	91	61539	2.280	ug/l	97
67) m/p-Xylenes	12.076	106	45931	4.531	ug/l	92
68) o-Xylene	12.400	106	23672	2.297	ug/l	99
69) Styrene	12.417	104	35875	2.127	ug/l	97
70) Isopropylbenzene	12.700	105	58059	2.185	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	26398	2.655	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	20290m	2.429	ug/l	
73) Bromobenzene	12.988	156	13864	2.489	ug/l	87
74) n-propylbenzene	13.035	91	66397	2.143	ug/l	98
75) 2-Chlorotoluene	13.129	91	42559	2.348	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	44514	2.061	ug/l	99
77) t-1,4-Dichloro-2-butene	12.747	75	5391m	1.554	ug/l	
78) 4-Chlorotoluene	13.223	91	34962	2.021	ug/l	93
79) tert-butylbenzene	13.441	119	42408	2.207	ug/l	95
80) 1,2,4-Trimethylbenzene	13.488	105	43029	1.980	ug/l	91
81) sec-Butylbenzene	13.617	105	55188	1.999	ug/l	94
82) p-Isopropyltoluene	13.735	119	42781	1.950	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	21925	2.018	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	24433	2.341	ug/l	89
85) n-Butylbenzene	14.053	91	35193	1.817	ug/l	96
86) Hexachloroethane	14.335	117	9626	2.240	ug/l	90
87) 1,2-Dichlorobenzene	14.111	146	23954	2.220	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	4032m	2.009	ug/l	
89) 1,2,4-Trichlorobenzene	15.399	180	8361	1.697	ug/l #	74
90) Hexachlorobutadiene	15.494	225	6929	2.884	ug/l #	43
91) Naphthalene	15.641	128	34211	1.750	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.835	180	8932	1.733	ug/l	79

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

