

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074885.D
 Acq On : 12 Oct 2022 19:09
 Operator : JC\MD
 Sample : N4955-08 5.0 LOQ
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2022

Quant Time: Oct 13 08:02:17 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 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

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

Internal Standards						
1) Bromochloromethane	7.824	128	66040	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	386639	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	357239	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	213230	34.488	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 114.967%#			
60) 4-Bromofluorobenzene	12.847	95	170596	26.928	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.767%			
63) Toluene-d8	10.571	98	634952	30.796	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	21781	5.939	ug/l	99
3) Chloromethane	2.377	50	39351	6.635	ug/l	92
4) Vinyl Chloride	2.530	62	53657	6.144	ug/l	95
5) Bromomethane	2.924	94	50042	7.227	ug/l	92
6) Chloroethane	3.107	64	40634	6.204	ug/l	97
7) Trichlorofluoromethane	3.495	101	41598	6.389	ug/l	87
8) Diethyl Ether	3.983	74	17978	5.921	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.383	101	24230m	5.914	ug/l	
10) 1,1-Dichloroethene	4.354	96	26557	6.589	ug/l #	80
11) Methyl Iodide	4.606	142	28320m	5.629	ug/l	
12) Methyl Acetate	5.048	43	64558m	6.646	ug/l	
13) Acrolein	4.201	56	39571	28.830	ug/l	91
14) Acrylonitrile	5.748	53	102360	28.252	ug/l	88
15) Acetone	4.471	58	28557m	28.759	ug/l	
16) Carbon Disulfide	4.730	76	61895	5.978	ug/l	97
17) Allyl chloride	5.048	41	52052m	6.487	ug/l	
18) Methylene Chloride	5.295	84	36223m	6.931	ug/l	
19) trans-1,2-Dichloroethene	5.806	96	26806m	6.059	ug/l	
20) Diisopropyl ether	6.683	45	104053m	5.555	ug/l	
21) 1,1-Dichloroethane	6.589	63	56545	5.933	ug/l	97
22) cis-1,2-Dichloroethene	7.506	96	31453	5.677	ug/l	95
23) tert-Butyl Alcohol	5.548	59	53480	35.031	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	94537m	5.616	ug/l	
25) Chloroform	7.983	83	54612m	5.771	ug/l	
26) Cyclohexane	8.259	56	48543	5.799	ug/l #	53
29) 1,1-Dichloropropene	8.377	75	37191	5.331	ug/l	67
30) 2-Butanone	7.506	43	152824	27.456	ug/l	98
31) 2,2-Dichloropropane	7.494	77	46842m	5.485	ug/l	
32) 1,1,1-Trichloroethane	8.183	97	44940	5.372	ug/l #	78
33) Carbon Tetrachloride	8.371	117	33914	4.936	ug/l	96
34) Benzene	8.612	78	130014	5.638	ug/l #	86
35) Methacrylonitrile	7.800	41	25856	4.520	ug/l	86
36) 1,2-Dichloroethane	8.677	62	40897	5.326	ug/l #	93
37) Trichloroethene	9.359	130	25906	5.402	ug/l	84
38) Methylcyclohexane	9.606	83	44625	5.265	ug/l	96
39) 1,2-Dichloropropane	9.624	63	32368	5.415	ug/l	97
40) Dibromomethane	9.718	93	22992m	5.804	ug/l	
41) Bromodichloromethane	9.888	83	43034	5.578	ug/l #	98
42) Vinyl Acetate	6.624	43	452783m	27.308	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	62646m	5.789	ug/l	
44) Isopropyl Acetate	8.700	43	87281	5.215	ug/l	98
45) 1,4-Dioxane	9.700	88	16033	104.478	ug/l #	84
46) Methyl methacrylate	9.688	41	39512	5.451	ug/l	84
47) n-amyl Acetate	12.500	43	72819	4.973	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	41496	4.688	ug/l #	75
49) cis-1,3-Dichloropropene	10.312	75	44426	4.733	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	30618	5.252	ug/l	94
51) Ethyl methacrylate	10.877	69	46390	4.680	ug/l	91
52) 1,3-Dichloropropane	11.165	76	56643	5.630	ug/l	99
53) Dibromochloromethane	11.359	129	27092	4.744	ug/l	94
54) 1,2-Dibromoethane	11.471	107	29185	5.211	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	92018	23.732	ug/l	96
56) Bromoform	12.582	173	18664	4.535	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	288724	25.987	ug/l	98
59) 2-Hexanone	11.200	43	218773	25.586	ug/l	97
61) Tetrachloroethene	11.106	164	20689	5.432	ug/l #	80
62) Toluene	10.635	91	133244	5.399	ug/l	96
64) Chlorobenzene	11.894	112	77374	5.515	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	25939	4.909	ug/l	95
66) Ethyl Benzene	11.965	91	128634	4.793	ug/l	100
67) m/p-Xylenes	12.077	106	96303	9.552	ug/l	97
68) o-Xylene	12.400	106	53381	5.209	ug/l	93
69) Styrene	12.418	104	73647	4.390	ug/l	92
70) Isopropylbenzene	12.694	105	125649	4.754	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	51016	5.160	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	39295m	4.731	ug/l	
73) Bromobenzene	12.976	156	30031	5.422	ug/l	85
74) n-propylbenzene	13.041	91	136696	4.436	ug/l	100
75) 2-Chlorotoluene	13.129	91	79597	4.415	ug/l	93
76) 1,3,5-Trimethylbenzene	13.176	105	97924	4.559	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	13060	3.784	ug/l	69
78) 4-Chlorotoluene	13.224	91	75257	4.374	ug/l	98
79) tert-butylbenzene	13.441	119	88132	4.613	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	100506	4.650	ug/l	95
81) sec-Butylbenzene	13.618	105	112543	4.098	ug/l	100
82) p-Isopropyltoluene	13.729	119	88491	4.056	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	46878	4.337	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	49139	4.733	ug/l	98
85) n-Butylbenzene	14.059	91	76136	3.953	ug/l	99
86) Hexachloroethane	14.335	117	18461	4.320	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	48798	4.547	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.723	75	8789	4.404	ug/l #	84
89) 1,2,4-Trichlorobenzene	15.400	180	22694m	4.630	ug/l	
90) Hexachlorobutadiene	15.506	225	12731m	5.328	ug/l	
91) Naphthalene	15.641	128	83766	4.307	ug/l	97
92) 1,2,3-Trichlorobenzene	15.841	180	22879	4.463	ug/l	97

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

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