

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074637.D
 Acq On : 27 Sep 2022 19:17
 Operator : JC\MD
 Sample : N3980-07 LOD 2.5
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2022

Quant Time: Sep 28 08:07:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:48:31 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

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

Internal Standards						
1) Bromochloromethane	7.492	128	102811	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	619614	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.621	117	530471	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	301614	31.113	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.700%			
60) 4-Bromofluorobenzene	12.604	95	260564	25.287	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 84.300%			
63) Toluene-d8	10.316	98	931135	31.119	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.999	85	19144	3.168	ug/l	89
3) Chloromethane	2.216	50	31396m	3.538	ug/l	
4) Vinyl Chloride	2.357	62	40310	3.549	ug/l	90
5) Bromomethane	2.734	94	26701m	3.647	ug/l	
6) Chloroethane	2.899	64	24703m	3.077	ug/l	
7) Trichlorofluoromethane	3.246	101	31087	2.946	ug/l	90
8) Diethyl Ether	3.687	74	16567	2.977	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.057	101	19035m	2.814	ug/l	
10) 1,1-Dichloroethene	4.022	96	21931	3.145	ug/l	97
11) Methyl Iodide	4.263	142	23978	2.684	ug/l #	82
12) Methyl Acetate	4.681	43	56304m	3.771	ug/l	
13) Acrolein	3.898	56	26169m	21.532	ug/l	
14) Acrylonitrile	5.357	53	87503	14.458	ug/l	90
15) Acetone	4.140	58	26528m	16.688	ug/l	
16) Carbon Disulfide	4.363	76	57169	2.917	ug/l	96
17) Allyl chloride	4.651	41	47815m	3.362	ug/l	
18) Methylene Chloride	4.898	84	35890	4.037	ug/l #	90
19) trans-1,2-Dichloroethene	5.398	96	27060m	3.433	ug/l	
20) Diisopropyl ether	6.316	45	85090	2.735	ug/l #	87
21) 1,1-Dichloroethane	6.192	63	46888	2.984	ug/l	96
22) cis-1,2-Dichloroethene	7.145	96	28317m	2.978	ug/l	
23) tert-Butyl Alcohol	5.181	59	51571m	20.693	ug/l	
24) Methyl tert-Butyl Ether	5.422	73	79073m	2.736	ug/l	
25) Chloroform	7.663	83	42089	2.702	ug/l	87
26) Cyclohexane	7.934	56	41275	2.922	ug/l #	93
29) 1,1-Dichloropropene	8.069	75	31638	2.734	ug/l	94
30) 2-Butanone	7.163	43	131877	14.936	ug/l #	96
31) 2,2-Dichloropropane	7.151	77	37856	2.740	ug/l #	87
32) 1,1,1-Trichloroethane	7.857	97	36247	2.651	ug/l #	36
33) Carbon Tetrachloride	8.051	117	31092	2.719	ug/l #	83
34) Benzene	8.310	78	104847	2.737	ug/l #	62
35) Methacrylonitrile	7.481	41	25526m	3.039	ug/l	
36) 1,2-Dichloroethane	8.381	62	34184	2.732	ug/l	96
37) Trichloroethene	9.080	130	21351	2.624	ug/l	84
38) Methylcyclohexane	9.322	83	39107	2.611	ug/l	99
39) 1,2-Dichloropropane	9.351	63	28584	2.818	ug/l #	76
40) Dibromomethane	9.445	93	16048	2.452	ug/l	91
41) Bromodichloromethane	9.633	83	35212	2.706	ug/l #	92
42) Vinyl Acetate	6.245	43	387102m	13.487	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.251	43	49880m	2.917	ug/l	
44) Isopropyl Acetate	8.416	43	76395	2.751	ug/l	98
45) 1,4-Dioxane	9.433	88	13846	58.427	ug/l #	82
46) Methyl methacrylate	9.428	41	34273	2.963	ug/l	87
47) n-amyl Acetate	12.269	43	57988	2.281	ug/l	95
48) t-1,3-Dichloropropene	10.592	75	36362	2.302	ug/l	99
49) cis-1,3-Dichloropropene	10.063	75	41046	2.497	ug/l	93
50) 1,1,2-Trichloroethane	10.774	97	23292	2.448	ug/l	95
51) Ethyl methacrylate	10.639	69	42218	2.366	ug/l	89
52) 1,3-Dichloropropane	10.922	76	44678	2.649	ug/l	98
53) Dibromochloromethane	11.110	129	23037	2.291	ug/l	96
54) 1,2-Dibromoethane	11.222	107	23710	2.409	ug/l	94
55) 2-Chloroethyl vinyl ether	9.916	63	84099	12.146	ug/l	96
56) Bromoform	12.333	173	16630	2.116	ug/l #	79
58) 4-Methyl-2-Pentanone	10.204	43	239199	14.530	ug/l	98
59) 2-Hexanone	10.963	43	176856	13.871	ug/l	98
61) Tetrachloroethene	10.851	164	16658	2.815	ug/l #	84
62) Toluene	10.375	91	98079	2.525	ug/l	99
64) Chlorobenzene	11.645	112	56850	2.554	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.721	131	21455	2.565	ug/l	94
66) Ethyl Benzene	11.721	91	100738	2.442	ug/l	97
67) m/p-Xylenes	11.827	106	74696	4.510	ug/l	98
68) o-Xylene	12.157	106	38410	2.278	ug/l	99
69) Styrene	12.174	104	59536	2.099	ug/l	95
70) Isopropylbenzene	12.457	105	93630	2.176	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.704	83	38506	2.522	ug/l	96
72) 1,2,3-Trichloropropane	12.757	75	29391m	2.542	ug/l	
73) Bromobenzene	12.739	156	20596	2.383	ug/l	93
74) n-propylbenzene	12.798	91	97573	2.013	ug/l	97
75) 2-Chlorotoluene	12.880	91	65340	2.222	ug/l	100
76) 1,3,5-Trimethylbenzene	12.939	105	73672	2.031	ug/l	97
77) t-1,4-Dichloro-2-butene	12.498	75	14117	2.358	ug/l	86
78) 4-Chlorotoluene	12.980	91	53672	1.821	ug/l	96
79) tert-butylbenzene	13.204	119	68284	2.152	ug/l	97
80) 1,2,4-Trimethylbenzene	13.245	105	71448	1.994	ug/l	96
81) sec-Butylbenzene	13.380	105	84776	1.887	ug/l	98
82) p-Isopropyltoluene	13.492	119	65434	1.770	ug/l	96
83) 1,3-Dichlorobenzene	13.486	146	32294	1.818	ug/l	95
84) 1,4-Dichlorobenzene	13.568	146	33052	1.871	ug/l	94
85) n-Butylbenzene	13.821	91	55780	1.769	ug/l	95
86) Hexachloroethane	14.086	117	15769	2.215	ug/l	99
87) 1,2-Dichlorobenzene	13.863	146	35219	1.938	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.474	75	8072m	2.524	ug/l	
89) 1,2,4-Trichlorobenzene	15.127	180	13140m	1.734	ug/l	
90) Hexachlorobutadiene	15.227	225	6053	1.813	ug/l #	53
91) Naphthalene	15.362	128	58335	1.835	ug/l #	84
92) 1,2,3-Trichlorobenzene	15.551	180	13855	1.823	ug/l	95

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

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