

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092822\
 Data File : VN074648.D
 Acq On : 28 Sep 2022 15:13
 Operator : JC\MD
 Sample : N3980-09 4.0 PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2022

Quant Time: Sep 28 15:55:48 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

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

Internal Standards						
1) Bromochloromethane	7.498	128	92500	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.827	114	563225	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.621	117	498943	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	282980	32.445	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 108.167%	
60) 4-Bromofluorobenzene	12.610	95	253678	26.175	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 87.233%	
63) Toluene-d8	10.310	98	860928	30.591	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.967%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.999	85	27504	5.060	ug/l	98
3) Chloromethane	2.216	50	47903	6.001	ug/l	91
4) Vinyl Chloride	2.357	62	65369	6.396	ug/l	91
5) Bromomethane	2.722	94	47889	7.270	ug/l	99
6) Chloroethane	2.887	64	139033m	19.246	ug/l	
7) Trichlorofluoromethane	3.245	101	47510	5.005	ug/l	83
8) Diethyl Ether	3.675	74	23294	4.652	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.034	101	31777m	5.222	ug/l	
10) 1,1-Dichloroethene	4.010	96	33160m	5.285	ug/l	
11) Methyl Iodide	4.263	142	34651m	4.312	ug/l	
12) Methyl Acetate	4.669	43	66346	4.939	ug/l	95
13) Acrolein	3.887	56	34436m	31.493	ug/l	
14) Acrylonitrile	5.363	53	130838	24.027	ug/l #	89
15) Acetone	4.128	58	36801	25.731	ug/l	96
16) Carbon Disulfide	4.351	76	78196	4.434	ug/l	97
17) Allyl chloride	4.663	41	65548	5.123	ug/l	88
18) Methylene Chloride	4.898	84	45063m	5.633	ug/l	
19) trans-1,2-Dichloroethene	5.410	96	35413m	4.994	ug/l	
20) Diisopropyl ether	6.310	45	136751	4.886	ug/l #	96
21) 1,1-Dichloroethane	6.204	63	68806m	4.868	ug/l	
22) cis-1,2-Dichloroethene	7.151	96	38900	4.546	ug/l	99
23) tert-Butyl Alcohol	5.181	59	72686m	32.417	ug/l	
24) Methyl tert-Butyl Ether	5.416	73	116989	4.499	ug/l #	91
25) Chloroform	7.663	83	60138	4.292	ug/l	94
26) Cyclohexane	7.939	56	60034	4.723	ug/l #	55
29) 1,1-Dichloropropene	8.069	75	43067	4.094	ug/l	96
30) 2-Butanone	7.169	43	190109	23.687	ug/l #	98
31) 2,2-Dichloropropane	7.151	77	62367	4.966	ug/l #	82
32) 1,1,1-Trichloroethane	7.851	97	55356	4.454	ug/l	95
33) Carbon Tetrachloride	8.045	117	43526	4.188	ug/l	96
34) Benzene	8.304	78	147061	4.223	ug/l #	58
35) Methacrylonitrile	7.469	41	42026m	5.504	ug/l	
36) 1,2-Dichloroethane	8.375	62	51590	4.537	ug/l #	79
37) Trichloroethene	9.080	130	33050	4.469	ug/l	95
38) Methylcyclohexane	9.316	83	53307	3.915	ug/l	81
39) 1,2-Dichloropropane	9.357	63	43018m	4.665	ug/l	
40) Dibromomethane	9.445	93	23385	3.931	ug/l	95
41) Bromodichloromethane	9.627	83	48363	4.089	ug/l #	98
42) Vinyl Acetate	6.239	43	582432m	22.325	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.239	43	77467	4.983	ug/l #	78
44) Isopropyl Acetate	8.416	43	111243	4.407	ug/l	98
45) 1,4-Dioxane	9.433	88	19649	91.215	ug/l #	69
46) Methyl methacrylate	9.422	41	46339	4.407	ug/l	96
47) n-amyl Acetate	12.268	43	92312	3.995	ug/l	98
48) t-1,3-Dichloropropene	10.598	75	56078m	3.906	ug/l	
49) cis-1,3-Dichloropropene	10.063	75	61096	4.089	ug/l #	87
50) 1,1,2-Trichloroethane	10.769	97	34968	4.043	ug/l #	82
51) Ethyl methacrylate	10.639	69	63167	3.895	ug/l	92
52) 1,3-Dichloropropane	10.916	76	62845	4.099	ug/l	93
53) Dibromochloromethane	11.116	129	33494	3.664	ug/l	99
54) 1,2-Dibromoethane	11.221	107	36168	4.042	ug/l	98
55) 2-Chloroethyl vinyl ether	9.916	63	141928	22.549	ug/l	100
56) Bromoform	12.327	173	23089	3.231	ug/l	99
58) 4-Methyl-2-Pentanone	10.204	43	380648	24.583	ug/l	95
59) 2-Hexanone	10.963	43	287617	23.983	ug/l	96
61) Tetrachloroethene	10.845	164	23565	4.234	ug/l #	86
62) Toluene	10.374	91	158946	4.351	ug/l	96
64) Chlorobenzene	11.645	112	89142	4.258	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.716	131	32955	4.190	ug/l	98
66) Ethyl Benzene	11.721	91	158902	4.096	ug/l	90
67) m/p-Xylenes	11.827	106	120765	7.753	ug/l	94
68) o-Xylene	12.157	106	58746	3.704	ug/l	95
69) Styrene	12.168	104	89762	3.364	ug/l	96
70) Isopropylbenzene	12.457	105	149330	3.691	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.704	83	61502	4.282	ug/l	95
72) 1,2,3-Trichloropropane	12.757	75	53059m	4.880	ug/l	
73) Bromobenzene	12.739	156	30297	3.726	ug/l	97
74) n-propylbenzene	12.798	91	163607	3.588	ug/l	99
75) 2-Chlorotoluene	12.880	91	98776	3.571	ug/l	100
76) 1,3,5-Trimethylbenzene	12.939	105	117674	3.449	ug/l	99
77) t-1,4-Dichloro-2-butene	12.498	75	19375	3.440	ug/l	95
78) 4-Chlorotoluene	12.980	91	87880	3.171	ug/l	97
79) tert-butylbenzene	13.198	119	100498	3.367	ug/l	98
80) 1,2,4-Trimethylbenzene	13.245	105	112243	3.331	ug/l	98
81) sec-Butylbenzene	13.374	105	141663	3.353	ug/l	95
82) p-Isopropyltoluene	13.492	119	104216	2.998	ug/l	99
83) 1,3-Dichlorobenzene	13.486	146	50451	3.020	ug/l	91
84) 1,4-Dichlorobenzene	13.568	146	50528	3.041	ug/l	96
85) n-Butylbenzene	13.815	91	89048	3.003	ug/l	98
86) Hexachloroethane	14.080	117	25183	3.761	ug/l	98
87) 1,2-Dichlorobenzene	13.862	146	55247	3.233	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.480	75	11430	3.800	ug/l	95
89) 1,2,4-Trichlorobenzene	15.127	180	23514	3.299	ug/l	97
90) Hexachlorobutadiene	15.233	225	12310	3.919	ug/l	93
91) Naphthalene	15.368	128	96240	3.218	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.556	180	23964	3.353	ug/l	100

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

