

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041023\
 Data File : VN077288.D
 Acq On : 10 Apr 2023 12:46
 Operator : JC\MD
 Sample : 02213-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2023

Quant Time: Apr 11 01:22:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	58355	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	449819	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	476271	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	149624	30.232	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.767%
60) 4-Bromofluorobenzene	12.854	95	221558	26.903	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.667%
63) Toluene-d8	10.566	98	500851	29.914	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.131	85	16885	3.044	ug/l	93
3) Chloromethane	2.372	50	23603	3.202	ug/l #	84
4) Vinyl Chloride	2.519	62	33477	3.171	ug/l #	88
5) Bromomethane	2.960	94	27153	3.413	ug/l	95
6) Chloroethane	3.131	64	28635m	4.047	ug/l	
7) Trichlorofluoromethane	3.513	101	32540m	3.310	ug/l	
8) Diethyl Ether	3.972	74	13485m	3.219	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.384	101	21447m	3.489	ug/l	
10) 1,1-Dichloroethene	4.354	96	20224	3.289	ug/l	87
11) Methyl Iodide	4.607	142	21206	3.053	ug/l	90
12) Methyl Acetate	5.037	43	26467m	2.889	ug/l	
13) Acrolein	4.190	56	18871	16.595	ug/l #	71
14) Acrylonitrile	5.731	53	44252	14.131	ug/l	98
15) Acetone	4.443	58	17864m	15.725	ug/l	
16) Carbon Disulfide	4.713	76	52945	3.262	ug/l	100
17) Allyl chloride	5.031	41	22311	2.819	ug/l	87
18) Methylene Chloride	5.290	84	25356	3.551	ug/l #	88
19) trans-1,2-Dichloroethene	5.795	96	21637	3.236	ug/l	96
20) Diisopropyl ether	6.672	45	57330	3.039	ug/l #	97
21) 1,1-Dichloroethane	6.578	63	39305m	3.287	ug/l	
22) cis-1,2-Dichloroethene	7.489	96	28161	3.455	ug/l #	87
23) tert-Butyl Alcohol	5.525	59	19075m	13.699	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	70942	3.205	ug/l #	84
25) Chloroform	7.960	83	41808m	3.226	ug/l	
26) Cyclohexane	8.260	56	31767	3.057	ug/l #	93
29) 1,1-Dichloropropene	8.372	75	30241	3.103	ug/l	96
30) 2-Butanone	7.489	43	63453	13.770	ug/l	96
31) 2,2-Dichloropropane	7.495	77	38603	3.227	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	37909	3.161	ug/l	98
33) Carbon Tetrachloride	8.360	117	33108	3.235	ug/l	94
34) Benzene	8.613	78	93004	3.085	ug/l #	87
35) Methacrylonitrile	7.778	41	7947m	1.831	ug/l	
36) 1,2-Dichloroethane	8.678	62	30125	3.187	ug/l	98
37) Trichloroethene	9.354	130	22488	3.049	ug/l	91
38) Methylcyclohexane	9.601	83	39977	3.025	ug/l	100
39) 1,2-Dichloropropane	9.625	63	22698	3.033	ug/l	92
40) Dibromomethane	9.707	93	16802	3.116	ug/l	98
41) Bromodichloromethane	9.895	83	32706	3.041	ug/l #	94
42) Vinyl Acetate	6.607	43	196046	14.700	ug/l #	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	27631m	3.241	ug/l	
44) Isopropyl Acetate	8.695	43	45194	2.961	ug/l #	100
45) 1,4-Dioxane	9.707	88	9360	58.143	ug/l	92
46) Methyl methacrylate	9.678	41	19360	2.946	ug/l	87
47) n-amyl Acetate	12.495	43	36362	2.726	ug/l	99
48) t-1,3-Dichloropropene	10.842	75	34729	2.886	ug/l	92
49) cis-1,3-Dichloropropene	10.319	75	38329	2.994	ug/l	94
50) 1,1,2-Trichloroethane	11.019	97	24052	3.071	ug/l	98
51) Ethyl methacrylate	10.877	69	34174	2.841	ug/l	82
52) 1,3-Dichloropropane	11.166	76	38148	2.918	ug/l	91
53) Dibromochloromethane	11.360	129	22808	2.763	ug/l	92
54) 1,2-Dibromoethane	11.472	107	24715	3.143	ug/l	93
55) 2-Chloroethyl vinyl ether	10.160	63	38236	10.295	ug/l	93
56) Bromoform	12.583	173	16030	2.890	ug/l	99
58) 4-Methyl-2-Pentanone	10.442	43	128925	14.458	ug/l	100
59) 2-Hexanone	11.195	43	99269	14.402	ug/l	100
61) Tetrachloroethene	11.101	164	18899	3.336	ug/l	94
62) Toluene	10.630	91	103552	3.116	ug/l	98
64) Chlorobenzene	11.895	112	61885	3.065	ug/l #	88
65) 1,1,1,2-Tetrachloroethane	11.960	131	22549	3.037	ug/l	93
66) Ethyl Benzene	11.966	91	107386	2.917	ug/l	97
67) m/p-Xylenes	12.077	106	81998	5.682	ug/l	99
68) o-Xylene	12.401	106	41699	2.888	ug/l	97
69) Styrene	12.413	104	63953	2.765	ug/l	97
70) Isopropylbenzene	12.701	105	107441	2.933	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.936	83	33484	2.984	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	22988m	3.014	ug/l	
73) Bromobenzene	12.989	156	22925	3.080	ug/l	86
74) n-propylbenzene	13.042	91	112493	2.775	ug/l	98
75) 2-Chlorotoluene	13.124	91	67342	2.773	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	75467	2.531	ug/l	100
77) t-1,4-Dichloro-2-butene	12.736	75	10234	2.634	ug/l	91
78) 4-Chlorotoluene	13.224	91	59867	2.609	ug/l	96
79) tert-butylbenzene	13.442	119	76205	2.936	ug/l	97
80) 1,2,4-Trimethylbenzene	13.489	105	72263	2.486	ug/l	98
81) sec-Butylbenzene	13.618	105	100740	2.718	ug/l	99
82) p-Isopropyltoluene	13.736	119	76515	2.577	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	36805	2.608	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	35849	2.618	ug/l	99
85) n-Butylbenzene	14.060	91	60333	2.459	ug/l	97
86) Hexachloroethane	14.336	117	17244	2.730	ug/l	100
87) 1,2-Dichlorobenzene	14.107	146	37733	2.729	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	5483	2.550	ug/l	96
89) 1,2,4-Trichlorobenzene	15.371	180	9110	1.675	ug/l	95
90) Hexachlorobutadiene	15.465	225	8349	2.993	ug/l	89
91) Naphthalene	15.589	128	28963	1.394	ug/l	97
92) 1,2,3-Trichlorobenzene	15.754	180	8963	1.689	ug/l	94

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

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