

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093022\
 Data File : VX031821.D
 Acq On : 30 Sep 2022 19:03
 Operator : JC/MD
 Sample : N3980-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT3-2022

Quant Time: Oct 03 01:16:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X093022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 03 00:56:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	18535	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	99979	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94255	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	45369	32.522	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 108.400%	
60) 4-Bromofluorobenzene	11.079	95	51115	29.302	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.667%	
63) Toluene-d8	8.647	98	145582	30.404	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.333%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	4800	6.210	ug/l	94
3) Chloromethane	1.288	50	5117	6.318	ug/l	98
4) Vinyl Chloride	1.368	62	6464	5.950	ug/l	92
5) Bromomethane	1.612	94	6286	6.325	ug/l	96
6) Chloroethane	1.685	64	6664	6.957	ug/l #	85
7) Trichlorofluoromethane	1.886	101	14439	6.220	ug/l	98
8) Diethyl Ether	2.130	74	4575	5.816	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.325	101	6459	5.862	ug/l	97
10) 1,1-Dichloroethene	2.319	96	5643	5.545	ug/l	89
11) Methyl Iodide	2.453	142	4692	4.212	ug/l	92
12) Methyl Acetate	2.703	43	7318	6.294	ug/l	98
13) Acrolein	2.239	56	3638	35.327	ug/l	92
14) Acrylonitrile	3.069	53	14397	29.175	ug/l	98
15) Acetone	2.386	58	4078	30.505	ug/l	94
16) Carbon Disulfide	2.508	76	11929	5.343	ug/l	97
17) Allyl chloride	2.666	41	6904	5.605	ug/l	91
18) Methylene Chloride	2.788	84	7066	6.067	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	6449	5.473	ug/l	96
20) Diisopropyl ether	3.757	45	16290	5.755	ug/l	94
21) 1,1-Dichloroethane	3.611	63	11067	5.993	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	7802	5.481	ug/l	98
23) tert-Butyl Alcohol	3.008	59	4862m	26.431	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	19779	5.655	ug/l	99
25) Chloroform	5.099	83	13109	5.782	ug/l	94
26) Cyclohexane	5.477	56	8965	5.885	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	8468	5.464	ug/l	95
30) 2-Butanone	4.568	43	18625	29.524	ug/l #	93
31) 2,2-Dichloropropane	4.483	77	7457m	4.805	ug/l	
32) 1,1,1-Trichloroethane	5.379	97	10726	5.228	ug/l	99
33) Carbon Tetrachloride	5.678	117	9701	5.157	ug/l	98
34) Benzene	6.044	78	26658	5.813	ug/l	93
35) Methacrylonitrile	4.928	41	3657	5.547	ug/l	90
36) 1,2-Dichloroethane	6.092	62	9824	6.080	ug/l	98
37) Trichloroethene	7.129	130	8233	5.502	ug/l	89
38) Methylcyclohexane	7.379	83	10174	5.363	ug/l	98
39) 1,2-Dichloropropane	7.428	63	5868	5.598	ug/l	98
40) Dibromomethane	7.586	93	5117	5.581	ug/l	99
41) Bromodichloromethane	7.824	83	9195	5.529	ug/l #	91
42) Vinyl Acetate	3.727	43	60787	26.721	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	6518	5.142	ug/l	# 82
44) Isopropyl Acetate	6.342	43	10705	5.314	ug/l	99
45) 1,4-Dioxane	7.714	88	3542m	122.861	ug/l	
46) Methyl methacrylate	7.696	41	5508	5.857	ug/l	97
47) n-amyl Acetate	10.848	43	7776	4.494	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	7419	4.526	ug/l	96
49) cis-1,3-Dichloropropene	8.373	75	8257	4.591	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	7306	5.502	ug/l	98
51) Ethyl methacrylate	9.122	69	8826	5.127	ug/l	98
52) 1,3-Dichloropropane	9.311	76	11560	5.681	ug/l	99
53) Dibromochloromethane	9.525	129	6704	4.533	ug/l	99
54) 1,2-Dibromoethane	9.610	107	8149	5.539	ug/l	95
55) 2-Chloroethyl vinyl ether	8.244	63	22555	26.721	ug/l	98
56) Bromoform	10.805	173	4285	3.953	ug/l	95
58) 4-Methyl-2-Pentanone	8.580	43	36406	28.730	ug/l	100
59) 2-Hexanone	9.433	43	27810	29.344	ug/l	96
61) Tetrachloroethene	9.275	164	8333	5.506	ug/l	92
62) Toluene	8.720	91	30473	5.647	ug/l	100
64) Chlorobenzene	10.080	112	20761	5.638	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	6921	4.958	ug/l	99
66) Ethyl Benzene	10.195	91	33465	5.502	ug/l	99
67) m/p-Xylenes	10.305	106	26227	10.356	ug/l	92
68) o-Xylene	10.640	106	13584	5.463	ug/l	99
69) Styrene	10.659	104	20297	5.026	ug/l	96
70) Isopropylbenzene	10.964	105	34591	5.353	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	10366	5.628	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	8878m	5.558	ug/l	
73) Bromobenzene	11.201	156	8852	5.108	ug/l	96
74) n-propylbenzene	11.305	91	36820	5.183	ug/l	100
75) 2-Chlorotoluene	11.366	91	23788	5.570	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	28977	5.320	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	1669	3.608	ug/l	67
78) 4-Chlorotoluene	11.457	91	26526	5.448	ug/l	97
79) tert-butylbenzene	11.713	119	27942	5.103	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	27895	5.164	ug/l	99
81) sec-Butylbenzene	11.890	105	33917	5.058	ug/l	97
82) p-Isopropyltoluene	12.012	119	28774	4.883	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	16258	4.958	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	16149	4.802	ug/l	97
85) n-Butylbenzene	12.335	91	21883	4.815	ug/l	97
86) Hexachloroethane	12.536	117	4246	4.589	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	16309	4.985	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	1665	4.505	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	9350	4.417	ug/l	95
90) Hexachlorobutadiene	13.725	225	3692	4.341	ug/l	94
91) Naphthalene	13.774	128	30396	4.488	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	9815	4.681	ug/l	97

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

