

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093022\
 Data File : VX031819.D
 Acq On : 30 Sep 2022 18:16
 Operator : JC/MD
 Sample : N3980-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Oct 03 01:14:45 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	4.904	128	19351	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	104261	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	95276	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	47380	32.531	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 108.433%	
60) 4-Bromofluorobenzene	11.079	95	51485	29.197	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.333%	
63) Toluene-d8	8.647	98	149944	30.979	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.267%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	2274	2.818	ug/l	91
3) Chloromethane	1.288	50	2599	3.074	ug/l	97
4) Vinyl Chloride	1.374	62	3240	2.857	ug/l	97
5) Bromomethane	1.611	94	3422	3.298	ug/l	99
6) Chloroethane	1.685	64	2935	2.935	ug/l #	86
7) Trichlorofluoromethane	1.886	101	6717	2.771	ug/l	97
8) Diethyl Ether	2.130	74	2125	2.587	ug/l	81
9) 1,1,2-Trichlorotrifluo...	2.331	101	2998	2.606	ug/l	97
10) 1,1-Dichloroethene	2.319	96	2656	2.500	ug/l	83
11) Methyl Iodide	2.453	142	1970	1.694	ug/l	93
12) Methyl Acetate	2.703	43	3311	2.728	ug/l	96
13) Acrolein	2.239	56	1809	16.826	ug/l	96
14) Acrylonitrile	3.068	53	6865	13.325	ug/l	95
15) Acetone	2.386	58	2180	15.620	ug/l	69
16) Carbon Disulfide	2.514	76	5686	2.440	ug/l	97
17) Allyl chloride	2.660	41	2958	2.300	ug/l	92
18) Methylene Chloride	2.788	84	3943	3.243	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	3153	2.563	ug/l #	85
20) Diisopropyl ether	3.763	45	7606	2.574	ug/l #	91
21) 1,1-Dichloroethane	3.611	63	4787	2.483	ug/l	94
22) cis-1,2-Dichloroethene	4.483	96	3695m	2.486	ug/l	
23) tert-Butyl Alcohol	2.995	59	2269	11.815	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	9157	2.508	ug/l	97
25) Chloroform	5.093	83	6196	2.617	ug/l	98
26) Cyclohexane	5.464	56	4044	2.543	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	3947	2.442	ug/l	96
30) 2-Butanone	4.568	43	8761	13.317	ug/l #	90
31) 2,2-Dichloropropane	4.483	77	3514m	2.171	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	4966m	2.321	ug/l	
33) Carbon Tetrachloride	5.684	117	4440	2.264	ug/l	98
34) Benzene	6.037	78	11984	2.506	ug/l #	92
35) Methacrylonitrile	4.934	41	1924m	2.799	ug/l	
36) 1,2-Dichloroethane	6.092	62	4789	2.842	ug/l #	92
37) Trichloroethene	7.129	130	3644	2.335	ug/l	92
38) Methylcyclohexane	7.379	83	4461	2.255	ug/l	89
39) 1,2-Dichloropropane	7.427	63	2767	2.531	ug/l #	88
40) Dibromomethane	7.586	93	2407	2.517	ug/l	97
41) Bromodichloromethane	7.830	83	3927	2.265	ug/l	94
42) Vinyl Acetate	3.727	43	26368	11.115	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	3494	2.643	ug/l #	78
44) Isopropyl Acetate	6.348	43	5042	2.400	ug/l #	87
45) 1,4-Dioxane	7.702	88	1427	47.465	ug/l #	76
46) Methyl methacrylate	7.696	41	2428	2.476	ug/l	74
47) n-amyl Acetate	10.848	43	3292	1.824	ug/l	92
48) t-1,3-Dichloropropene	8.982	75	3228	1.888	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	3780	2.016	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	3558	2.569	ug/l	94
51) Ethyl methacrylate	9.116	69	3657	2.037	ug/l	94
52) 1,3-Dichloropropane	9.311	76	5256	2.477	ug/l	100
53) Dibromochloromethane	9.519	129	2993	1.941	ug/l	95
54) 1,2-Dibromoethane	9.610	107	3580	2.334	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	10604	12.047	ug/l	99
56) Bromoform	10.805	173	1942	1.718	ug/l #	94
58) 4-Methyl-2-Pentanone	8.574	43	16324	12.744	ug/l	96
59) 2-Hexanone	9.433	43	11196	11.687	ug/l	98
61) Tetrachloroethene	9.275	164	3580	2.340	ug/l	94
62) Toluene	8.720	91	13804	2.531	ug/l	99
64) Chlorobenzene	10.079	112	8976	2.412	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.159	131	3199	2.267	ug/l	99
66) Ethyl Benzene	10.195	91	14533	2.364	ug/l	99
67) m/p-Xylenes	10.305	106	11462	4.477	ug/l	96
68) o-Xylene	10.640	106	5541	2.205	ug/l	87
69) Styrene	10.659	104	9048	2.216	ug/l	99
70) Isopropylbenzene	10.963	105	14512	2.222	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	4684	2.516	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	4109m	2.545	ug/l	
73) Bromobenzene	11.201	156	3811	2.175	ug/l	91
74) n-propylbenzene	11.305	91	15910	2.216	ug/l	100
75) 2-Chlorotoluene	11.366	91	10709	2.481	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	12156	2.208	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	597	1.277	ug/l	70
78) 4-Chlorotoluene	11.457	91	11585	2.354	ug/l	100
79) tert-butylbenzene	11.713	119	11829	2.137	ug/l	93
80) 1,2,4-Trimethylbenzene	11.750	105	12109	2.218	ug/l	99
81) sec-Butylbenzene	11.890	105	14522	2.143	ug/l	98
82) p-Isopropyltoluene	12.012	119	11948	2.006	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	7134	2.152	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	7404	2.178	ug/l	97
85) n-Butylbenzene	12.335	91	9504	2.069	ug/l	96
86) Hexachloroethane	12.536	117	1845	1.973	ug/l	83
87) 1,2-Dichlorobenzene	12.335	146	7406	2.239	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	736	1.970	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	4188	1.957	ug/l	94
90) Hexachlorobutadiene	13.725	225	1757	2.044	ug/l	98
91) Naphthalene	13.774	128	12893	1.883	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	4311	2.034	ug/l	95

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

