

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080421\
 Data File : VX023534.D
 Acq On : 04 Aug 2021 11:07
 Operator : JC/MD
 Sample : M2940-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 MDL-WATER-03-QT3-2021DL

Manual Integrations
 APPROVED

MMDadoda
 8/6/2021 11:09:15 AM

Quant Time: Aug 05 05:17:22 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	40564	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	222528	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	199162	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	91994	29.33	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.77%		
60) 4-Bromofluorobenzene	11.085	95	87829	26.92	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.73%		
63) Toluene-d8	8.653	98	275591	30.75	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.50%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	5688	2.37	ug/l	97
3) Chloromethane	1.294	50	6624	2.45	ug/l	97
4) Vinyl Chloride	1.374	62	6102	2.26	ug/l	93
5) Bromomethane	1.605	94	5139	3.24	ug/l	94
6) Chloroethane	1.685	64	4154	2.45	ug/l	97
7) Trichlorofluoromethane	1.886	101	10518	2.41	ug/l	94
8) Diethyl Ether	2.136	74	3451	2.22	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.331	101	5572	2.28	ug/l	95
10) 1,1-Dichloroethene	2.319	96	5735	2.44	ug/l	79
11) Methyl Iodide	2.453	142	6247	1.89	ug/l	94
12) Methyl Acetate	2.715	43	7901	2.25	ug/l	97
13) Acrolein	2.239	56	5293	13.72	ug/l	100
14) Acrylonitrile	3.068	53	16589	10.70	ug/l	95
15) Acetone	2.392	58	5910	12.58	ug/l	87
16) Carbon Disulfide	2.514	76	12438	2.15	ug/l	100
17) Allyl chloride	2.666	41	9700	2.23	ug/l	98
18) Methylene Chloride	2.794	84	8608	3.11	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	5745	2.28	ug/l	95
20) Diisopropyl ether	3.763	45	19018	2.19	ug/l #	83
21) 1,1-Dichloroethane	3.611	63	10734	2.27	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	6359	2.17	ug/l #	67
23) tert-Butyl Alcohol	2.971	59	8385	11.92	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	17874	2.17	ug/l	98
25) Chloroform	5.099	83	11171	2.31	ug/l	97
26) Cyclohexane	5.483	56	9877m	2.30	ug/l	
29) 1,1-Dichloropropene	5.696	75	7906	2.28	ug/l	86
30) 2-Butanone	4.574	43	27100	11.67	ug/l #	58
31) 2,2-Dichloropropane	4.483	77	8096	2.07	ug/l #	56
32) 1,1,1-Trichloroethane	5.397	97	9118	2.17	ug/l	98
33) Carbon Tetrachloride	5.684	117	7657	2.10	ug/l	94
34) Benzene	6.043	78	24495	2.34	ug/l	98
35) Methacrylonitrile	4.934	41	5120	2.19	ug/l	91
36) 1,2-Dichloroethane	6.098	62	9143	2.29	ug/l	99
37) Trichloroethene	7.135	130	6456	2.27	ug/l	93
38) Methylcyclohexane	7.379	83	9675	2.19	ug/l	93
39) 1,2-Dichloropropane	7.440	63	5749	2.10	ug/l	93
40) Dibromomethane	7.580	93	4346	2.24	ug/l	98
41) Bromodichloromethane	7.830	83	7286	2.07	ug/l	90
42) Vinyl Acetate	3.733	43	78700	10.40	ug/l	99
43) Ethyl Acetate	4.727	43	9907	2.30	ug/l	96

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44) Isopropyl Acetate	6.348	43	14162	2.06	ug/l	99
45) 1,4-Dioxane	7.665	88	3001	42.15	ug/l	90
46) Methyl methacrylate	7.702	41	6615	2.00	ug/l	97
47) n-amyl Acetate	10.848	43	11445	1.96	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	7752	1.89	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	8769	2.01	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	6071	2.17	ug/l	86
51) Ethyl methacrylate	9.116	69	8816	2.00	ug/l	93
52) 1,3-Dichloropropane	9.311	76	9932	2.16	ug/l	99
53) Dibromochloromethane	9.525	129	5242	1.86	ug/l	94
54) 1,2-Dibromoethane	9.610	107	6350	2.14	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	23756	10.77	ug/l	98
56) Bromoform	10.799	173	3530	1.75	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	47045	10.96	ug/l	99
59) 2-Hexanone	9.433	43	37093	11.13	ug/l	97
61) Tetrachloroethene	9.281	164	6580	2.46	ug/l	88
62) Toluene	8.720	91	25768	2.29	ug/l	99
64) Chlorobenzene	10.079	112	16252	2.29	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	5376	2.04	ug/l	97
66) Ethyl Benzene	10.195	91	27178	2.19	ug/l	99
67) m/p-Xylenes	10.305	106	19512	4.06	ug/l	95
68) o-Xylene	10.646	106	10338	2.18	ug/l	94
69) Styrene	10.659	104	14917	1.91	ug/l	97
70) Isopropylbenzene	10.963	105	25485	2.04	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	8825	2.21	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	7810m	2.08	ug/l	
73) Bromobenzene	11.201	156	6807	2.24	ug/l	98
74) n-propylbenzene	11.305	91	28105	1.95	ug/l	98
75) 2-Chlorotoluene	11.366	91	17959	2.08	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	21324	2.06	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	2088	1.56	ug/l	96
78) 4-Chlorotoluene	11.457	91	19743	2.03	ug/l	97
79) tert-butylbenzene	11.719	119	20647	2.06	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	20446	2.00	ug/l	99
81) sec-Butylbenzene	11.896	105	25727	2.00	ug/l	100
82) p-Isopropyltoluene	12.012	119	20651	1.95	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	11103	2.02	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	10610	1.95	ug/l	97
85) n-Butylbenzene	12.335	91	17621	1.88	ug/l	98
86) Hexachloroethane	12.542	117	2828	1.65	ug/l	98
87) 1,2-Dichlorobenzene	12.341	146	11113	2.10	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1487	1.70	ug/l	91
89) 1,2,4-Trichlorobenzene	13.591	180	5966	1.82	ug/l	95
90) Hexachlorobutadiene	13.725	225	2979	2.02	ug/l	95
91) Naphthalene	13.780	128	17946	1.59	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	5743	1.74	ug/l	97

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

