

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX033021\
 Data File : VX021623.D
 Acq On : 30 Mar 2021 12:43
 Operator : JC/MD
 Sample : M1458-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT1-2021

Manual Integrations
 APPROVED

MMDadoda
 3/31/2021 6:59:36 PM

Quant Time: Mar 31 04:40:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Mar 27 04:47:38 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	13543	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	73696	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	66748	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	37906	29.97	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.90%		
60) 4-Bromofluorobenzene	11.118	95	33475	28.52	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.07%		
63) Toluene-d8	8.694	98	90980	30.34	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.13%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	2096	1.66	ug/l	98
3) Chloromethane	1.311	50	3239	2.82	ug/l	99
4) Vinyl Chloride	1.393	62	2067	2.02	ug/l	98
5) Bromomethane	1.623	94	1169	2.84	ug/l	99
6) Chloroethane	1.705	64	1199	1.96	ug/l	95
7) Trichlorofluoromethane	1.917	101	3254	2.12	ug/l	96
8) Diethyl Ether	2.170	74	1219	2.41	ug/l	53
9) 1,1,2-Trichlorotrifluo...	2.364	101	1831	2.15	ug/l	98
10) 1,1-Dichloroethene	2.352	96	1818	2.25	ug/l	95
11) Methyl Iodide	2.487	142	1611	2.40	ug/l #	94
12) Methyl Acetate	2.746	43	2850	1.73	ug/l	94
13) Acrolein	2.270	56	1714	11.03	ug/l	89
14) Acrylonitrile	3.117	53	5744	11.17	ug/l	99
15) Acetone	2.423	58	1746	12.82	ug/l	87
16) Carbon Disulfide	2.546	76	4390	1.95	ug/l	99
17) Allyl chloride	2.705	41	3400	2.17	ug/l	85
18) Methylene Chloride	2.835	84	2339	2.45	ug/l #	88
19) trans-1,2-Dichloroethene	3.140	96	1921	2.20	ug/l	93
20) Diisopropyl ether	3.823	45	6749	2.16	ug/l #	89
21) 1,1-Dichloroethane	3.670	63	3683	2.17	ug/l	95
22) cis-1,2-Dichloroethene	4.564	96	2134m	2.12	ug/l	
23) tert-Butyl Alcohol	3.011	59	2393	10.97	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	6228	2.11	ug/l #	79
25) Chloroform	5.176	83	3968m	2.20	ug/l	
26) Cyclohexane	5.547	56	2841	1.93	ug/l #	91
29) 1,1-Dichloropropene	5.764	75	2702	2.17	ug/l	92
30) 2-Butanone	4.641	43	8097	11.14	ug/l #	87
31) 2,2-Dichloropropane	4.547	77	3167	2.28	ug/l #	81
32) 1,1,1-Trichloroethane	5.464	97	3467	2.26	ug/l #	90
33) Carbon Tetrachloride	5.753	117	2832	2.08	ug/l	88
34) Benzene	6.106	78	7829	2.21	ug/l	96
35) Methacrylonitrile	5.000	41	1900	2.38	ug/l	80
36) 1,2-Dichloroethane	6.158	62	3456	2.28	ug/l #	91
37) Trichloroethene	7.188	130	2266	2.46	ug/l	97
38) Methylcyclohexane	7.435	83	2806	2.04	ug/l	91
39) 1,2-Dichloropropane	7.494	63	2240	2.37	ug/l	96
40) Dibromomethane	7.635	93	1624	2.35	ug/l	89
41) Bromodichloromethane	7.876	83	3175	2.23	ug/l	95
42) Vinyl Acetate	3.788	43	27258	10.92	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.799	43	3401	2.46	ug/l #	73
44) Isopropyl Acetate	6.411	43	4915	2.12	ug/l #	88
45) 1,4-Dioxane	7.718	88	1099	47.69	ug/l	98
46) Methyl methacrylate	7.747	41	2599	2.05	ug/l	85
47) n-amyl Acetate	10.883	43	3900	1.95	ug/l	97
48) t-1,3-Dichloropropene	9.018	75	3011	2.10	ug/l	97
49) cis-1,3-Dichloropropene	8.412	75	3099	2.02	ug/l #	86
50) 1,1,2-Trichloroethane	9.194	97	2122	2.29	ug/l #	88
51) Ethyl methacrylate	9.159	69	2804	2.07	ug/l	81
52) 1,3-Dichloropropane	9.353	76	3531	2.22	ug/l	96
53) Dibromochloromethane	9.559	129	2194	2.07	ug/l	99
54) 1,2-Dibromoethane	9.653	107	2173	2.18	ug/l	95
55) 2-Chloroethyl vinyl ether	8.288	63	8581	11.37	ug/l	97
56) Bromoform	10.836	173	1649	2.21	ug/l	95
58) 4-Methyl-2-Pentanone	8.618	43	15360	10.90	ug/l #	88
59) 2-Hexanone	9.471	43	11460	10.83	ug/l #	84
61) Tetrachloroethene	9.312	164	1949	2.41	ug/l	94
62) Toluene	8.765	91	8389	2.23	ug/l	99
64) Chlorobenzene	10.118	112	5297	2.31	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.200	131	2018	2.23	ug/l	97
66) Ethyl Benzene	10.235	91	8604	2.05	ug/l	99
67) m/p-Xylenes	10.341	106	6206	4.01	ug/l	94
68) o-Xylene	10.683	106	3052	2.04	ug/l	95
69) Styrene	10.694	104	4893	1.96	ug/l	94
70) Isopropylbenzene	11.000	105	8308	2.04	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.247	83	3200	2.30	ug/l	98
72) 1,2,3-Trichloropropane	11.277	75	3218m	2.41	ug/l	
73) Bromobenzene	11.236	156	2216	2.26	ug/l	96
74) n-propylbenzene	11.342	91	9425	1.97	ug/l	100
75) 2-Chlorotoluene	11.400	91	6119	2.10	ug/l	96
76) 1,3,5-Trimethylbenzene	11.489	105	7053	2.03	ug/l	96
77) t-1,4-Dichloro-2-butene	11.059	75	774	1.82	ug/l	87
78) 4-Chlorotoluene	11.494	91	6801	2.01	ug/l	96
79) tert-butylbenzene	11.753	119	6784	2.05	ug/l	96
80) 1,2,4-Trimethylbenzene	11.789	105	6567	1.89	ug/l	97
81) sec-Butylbenzene	11.930	105	7640	1.99	ug/l	96
82) p-Isopropyltoluene	12.047	119	6449	1.84	ug/l	95
83) 1,3-Dichlorobenzene	12.006	146	3881	2.20	ug/l	95
84) 1,4-Dichlorobenzene	12.083	146	3723	2.11	ug/l	98
85) n-Butylbenzene	12.371	91	5809	1.86	ug/l	94
86) Hexachloroethane	12.577	117	1241	2.01	ug/l	96
87) 1,2-Dichlorobenzene	12.377	146	3743	2.16	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.977	75	741	2.27	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.630	180	2258	2.07	ug/l	96
90) Hexachlorobutadiene	13.765	225	1177	2.55	ug/l	96
91) Naphthalene	13.812	128	6380	1.76	ug/l	98
92) 1,2,3-Trichlorobenzene	14.001	180	2192	2.01	ug/l	98

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

