

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025064.D
 Acq On : 03 Nov 2021 22:04
 Operator : JC/MD
 Sample : M4068-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2021

Quant Time: Nov 03 23:57:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	20655	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	107007	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93493	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	55639	28.225	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.067%
60) 4-Bromofluorobenzene	11.085	95	49370	28.942	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.467%
63) Toluene-d8	8.653	98	133191	30.845	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	3060	1.935	ug/l	99
3) Chloromethane	1.295	50	1800	2.166	ug/l	90
4) Vinyl Chloride	1.374	62	2017	2.117	ug/l	93
5) Bromomethane	1.612	94	1813	2.317	ug/l	89
6) Chloroethane	1.691	64	1614	3.004	ug/l #	86
7) Trichlorofluoromethane	1.892	101	4841	2.105	ug/l	95
8) Diethyl Ether	2.136	74	1429	2.622	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	2829	2.358	ug/l	97
10) 1,1-Dichloroethene	2.325	96	2090	2.055	ug/l #	69
11) Methyl Iodide	2.453	142	2052	5.166	ug/l	97
12) Methyl Acetate	2.703	43	4387	2.052	ug/l #	89
13) Acrolein	2.239	56	1894	19.455	ug/l	94
14) Acrylonitrile	3.069	53	6159	10.230	ug/l	88
15) Acetone	2.386	58	2069	11.248	ug/l	99
16) Carbon Disulfide	2.514	76	5943	2.289	ug/l #	90
17) Allyl chloride	2.672	41	3377	2.081	ug/l	91
18) Methylene Chloride	2.794	84	2684	2.254	ug/l #	75
19) trans-1,2-Dichloroethene	3.093	96	2329	2.083	ug/l	84
20) Diisopropyl ether	3.757	45	6858	1.953	ug/l #	96
21) 1,1-Dichloroethane	3.611	63	5113	2.195	ug/l	94
22) cis-1,2-Dichloroethene	4.489	96	2868	2.161	ug/l #	78
23) tert-Butyl Alcohol	2.995	59	3923m	10.716	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	9036	2.101	ug/l	92
25) Chloroform	5.099	83	5571	2.062	ug/l	98
26) Cyclohexane	5.477	56	3852	2.073	ug/l #	36
29) 1,1-Dichloropropene	5.696	75	3677	2.137	ug/l	88
30) 2-Butanone	4.562	43	8989	10.358	ug/l	93
31) 2,2-Dichloropropane	4.483	77	4404m	2.015	ug/l	
32) 1,1,1-Trichloroethane	5.397	97	5680m	2.295	ug/l	
33) Carbon Tetrachloride	5.678	117	4586m	2.111	ug/l	
34) Benzene	6.044	78	9697	2.210	ug/l #	88
35) Methacrylonitrile	4.922	41	2038m	2.381	ug/l	
36) 1,2-Dichloroethane	6.092	62	4864	2.287	ug/l #	91
37) Trichloroethene	7.129	130	2865	2.336	ug/l	83
38) Methylcyclohexane	7.385	83	3868	2.093	ug/l	90
39) 1,2-Dichloropropane	7.421	63	2769m	2.312	ug/l	
40) Dibromomethane	7.586	93	2206	2.364	ug/l #	22
41) Bromodichloromethane	7.824	83	4222	2.131	ug/l #	97
42) Vinyl Acetate	3.727	43	26316	10.135	ug/l	98

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43) Ethyl Acetate	4.721	43	4032m	2.424	ug/l	
44) Isopropyl Acetate	6.348	43	5286	2.032	ug/l #	63
45) 1,4-Dioxane	7.714	88	1602m	57.981	ug/l	
46) Methyl methacrylate	7.690	41	2649	2.083	ug/l	76
47) n-amyl Acetate	10.842	43	4111	1.959	ug/l #	81
48) t-1,3-Dichloropropene	8.982	75	4693	2.199	ug/l	94
49) cis-1,3-Dichloropropene	8.379	75	4026	1.890	ug/l #	86
50) 1,1,2-Trichloroethane	9.159	97	2673	2.116	ug/l #	85
51) Ethyl methacrylate	9.122	69	3878	1.905	ug/l	94
52) 1,3-Dichloropropane	9.311	76	4831	2.238	ug/l	100
53) Dibromochloromethane	9.525	129	2622	1.818	ug/l	91
54) 1,2-Dibromoethane	9.610	107	3237	2.294	ug/l	94
55) 2-Chloroethyl vinyl ether	8.245	63	11970	13.211	ug/l	96
56) Bromoform	10.805	173	1745	1.822	ug/l #	87
58) 4-Methyl-2-Pentanone	8.580	43	17033	10.807	ug/l #	88
59) 2-Hexanone	9.433	43	13373	11.043	ug/l	92
61) Tetrachloroethene	9.275	164	2780	2.538	ug/l #	81
62) Toluene	8.720	91	10837	2.266	ug/l	99
64) Chlorobenzene	10.086	112	6022	2.085	ug/l #	77
65) 1,1,1,2-Tetrachloroethane	10.171	131	2990	2.317	ug/l	93
66) Ethyl Benzene	10.195	91	12922	2.285	ug/l	97
67) m/p-Xylenes	10.305	106	8068	4.149	ug/l	86
68) o-Xylene	10.647	106	4064	2.140	ug/l	82
69) Styrene	10.659	104	6569	2.037	ug/l	91
70) Isopropylbenzene	10.964	105	11512	2.087	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	3776	2.073	ug/l	97
72) 1,2,3-Trichloropropane	11.244	75	3826m	2.169	ug/l	
73) Bromobenzene	11.201	156	2444	1.983	ug/l	68
74) n-propylbenzene	11.305	91	13077	1.999	ug/l	98
75) 2-Chlorotoluene	11.366	91	8498	2.073	ug/l	95
76) 1,3,5-Trimethylbenzene	11.457	105	9901	2.058	ug/l	87
77) t-1,4-Dichloro-2-butene	11.018	75	982	1.654	ug/l	71
78) 4-Chlorotoluene	11.457	91	10076	2.153	ug/l	95
79) tert-butylbenzene	11.713	119	9285	2.048	ug/l	88
80) 1,2,4-Trimethylbenzene	11.750	105	9785	2.068	ug/l	91
81) sec-Butylbenzene	11.896	105	11350	2.012	ug/l	95
82) p-Isopropyltoluene	12.012	119	9482	2.027	ug/l	94
83) 1,3-Dichlorobenzene	11.976	146	4176m	1.822	ug/l	
84) 1,4-Dichlorobenzene	12.043	146	4852	2.125	ug/l	95
85) n-Butylbenzene	12.335	91	8120	1.903	ug/l	96
86) Hexachloroethane	12.543	117	1578	1.892	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	4282	1.897	ug/l	88
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1105	2.218	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.585	180	2122	1.552	ug/l	96
90) Hexachlorobutadiene	13.725	225	1523	2.205	ug/l	90
91) Naphthalene	13.780	128	4864	1.041	ug/l #	95
92) 1,2,3-Trichlorobenzene	13.963	180	1934	1.387	ug/l	95

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

