

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021942.D
 Acq On : 12 May 2021 22:01
 Operator : JC/MD
 Sample : M2262-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2021

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:30 PM

Quant Time: May 13 06:27:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	18532	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	107615	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	93160	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	42664	29.89	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.63%			
60) 4-Bromofluorobenzene	11.085	95	47024	30.42	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.40%			
63) Toluene-d8	8.653	98	128574	30.20	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.67%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	2352	2.15	ug/l	95
3) Chloromethane	1.295	50	2980	2.27	ug/l	97
4) Vinyl Chloride	1.374	62	3422	2.51	ug/l	99
5) Bromomethane	1.612	94	2134	2.78	ug/l	96
6) Chloroethane	1.691	64	2197	2.50	ug/l	92
7) Trichlorofluoromethane	1.892	101	4547	2.38	ug/l	97
8) Diethyl Ether	2.136	74	2179	2.66	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	2403	2.20	ug/l	92
10) 1,1-Dichloroethene	2.325	96	2565	2.33	ug/l	98
11) Methyl Iodide	2.459	142	3102	2.83	ug/l	98
12) Methyl Acetate	2.709	43	4154m	2.73	ug/l	
13) Acrolein	2.246	56	2739	11.60	ug/l	95
14) Acrylonitrile	3.075	53	6956	11.19	ug/l	92
15) Acetone	2.386	58	2414	13.01	ug/l	88
16) Carbon Disulfide	2.514	76	8124	2.70	ug/l #	95
17) Allyl chloride	2.666	41	4814	2.48	ug/l	94
18) Methylene Chloride	2.794	84	3862	2.95	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	3046	2.54	ug/l	95
20) Diisopropyl ether	3.776	45	8529	2.33	ug/l #	84
21) 1,1-Dichloroethane	3.611	63	5182	2.36	ug/l	91
22) cis-1,2-Dichloroethene	4.489	96	3648m	2.59	ug/l	
23) tert-Butyl Alcohol	2.971	59	3982	13.18	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	8207	2.29	ug/l	93
25) Chloroform	5.105	83	4988m	2.25	ug/l	
26) Cyclohexane	5.477	56	4294	2.37	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	4236	2.52	ug/l	79
30) 2-Butanone	4.568	43	11887	12.47	ug/l #	83
31) 2,2-Dichloropropane	4.489	77	4459	2.25	ug/l #	63
32) 1,1,1-Trichloroethane	5.391	97	4339	2.18	ug/l	96
33) Carbon Tetrachloride	5.690	117	3804	2.26	ug/l	98
34) Benzene	6.038	78	12261	2.39	ug/l	92
35) Methacrylonitrile	4.940	41	2505	2.45	ug/l	85
36) 1,2-Dichloroethane	6.086	62	4282m	2.44	ug/l	
37) Trichloroethene	7.135	130	3054	2.36	ug/l	83
38) Methylcyclohexane	7.391	83	4544	2.38	ug/l	92
39) 1,2-Dichloropropane	7.446	63	3036	2.37	ug/l	98
40) Dibromomethane	7.580	93	2161	2.42	ug/l	94
41) Bromodichloromethane	7.830	83	4086	2.29	ug/l #	79
42) Vinyl Acetate	3.733	43	40969	11.51	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	4893m	2.53	ug/l	
44) Isopropyl Acetate	6.348	43	7620	2.38	ug/l	97
45) 1,4-Dioxane	7.690	88	1525	53.46	ug/l #	100
46) Methyl methacrylate	7.702	41	3710	2.50	ug/l	82
47) n-amyl Acetate	10.848	43	6353	2.39	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	4609	2.30	ug/l	94
49) cis-1,3-Dichloropropene	8.373	75	5042	2.35	ug/l	95
50) 1,1,2-Trichloroethane	9.159	97	3041	2.39	ug/l #	86
51) Ethyl methacrylate	9.122	69	5055	2.47	ug/l	89
52) 1,3-Dichloropropane	9.317	76	5370	2.42	ug/l	99
53) Dibromochloromethane	9.525	129	2859	2.24	ug/l	94
54) 1,2-Dibromoethane	9.616	107	3027	2.32	ug/l	98
55) 2-Chloroethyl vinyl ether	8.245	63	13045	12.06	ug/l	97
56) Bromoform	10.805	173	1671	2.06	ug/l #	93
58) 4-Methyl-2-Pentanone	8.580	43	22495	11.97	ug/l	98
59) 2-Hexanone	9.433	43	16005	11.50	ug/l	97
61) Tetrachloroethene	9.275	164	2473	2.34	ug/l	94
62) Toluene	8.726	91	13055	2.45	ug/l	98
64) Chlorobenzene	10.086	112	8013	2.51	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	2912	2.50	ug/l	90
66) Ethyl Benzene	10.195	91	13806	2.35	ug/l	97
67) m/p-Xylenes	10.305	106	10372	4.66	ug/l	100
68) o-Xylene	10.647	106	5471	2.53	ug/l	92
69) Styrene	10.659	104	8627	2.38	ug/l	98
70) Isopropylbenzene	10.964	105	13099	2.30	ug/l	93
71) 1,1,2,2-Tetrachloroethane	11.220	83	4406	2.35	ug/l	97
72) 1,2,3-Trichloropropane	11.244	75	4398m	2.65	ug/l	
73) Bromobenzene	11.201	156	2899	2.41	ug/l	92
74) n-propylbenzene	11.305	91	15515	2.34	ug/l	99
75) 2-Chlorotoluene	11.366	91	9437	2.40	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	11246	2.37	ug/l	98
77) t-1,4-Dichloro-2-butene	11.025	75	1574	2.34	ug/l	87
78) 4-Chlorotoluene	11.457	91	10517	2.33	ug/l	99
79) tert-butylbenzene	11.719	119	10940	2.41	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	11231	2.37	ug/l	98
81) sec-Butylbenzene	11.896	105	13231	2.32	ug/l	98
82) p-Isopropyltoluene	12.012	119	10501	2.19	ug/l	95
83) 1,3-Dichlorobenzene	11.976	146	5249	2.30	ug/l	97
84) 1,4-Dichlorobenzene	12.049	146	5759	2.51	ug/l	96
85) n-Butylbenzene	12.335	91	9477	2.16	ug/l	98
86) Hexachloroethane	12.549	117	1734	2.18	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	5593	2.53	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1059	2.54	ug/l #	81
89) 1,2,4-Trichlorobenzene	13.591	180	2788	2.06	ug/l	96
90) Hexachlorobutadiene	13.731	225	1421	2.71	ug/l	87
91) Naphthalene	13.780	128	11517	2.17	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	2910	2.16	ug/l	99

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

