

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021961.D
 Acq On : 13 May 2021 12:58
 Operator : JC/MD
 Sample : M2262-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2021

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:21 PM

Quant Time: May 14 03:46:49 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	4.909	128	18513	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	107447	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96466	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	43837	30.74	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.47%
60) 4-Bromofluorobenzene	11.085	95	47655	29.77	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.23%
63) Toluene-d8	8.653	98	129821	29.45	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.17%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	4704	4.30	ug/l	94
3) Chloromethane	1.294	50	6771	5.16	ug/l	99
4) Vinyl Chloride	1.373	62	6358	4.66	ug/l #	83
5) Bromomethane	1.611	94	3733	4.87	ug/l	90
6) Chloroethane	1.690	64	4439	5.06	ug/l #	88
7) Trichlorofluoromethane	1.892	101	9373	4.92	ug/l	93
8) Diethyl Ether	2.136	74	4558	5.58	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	5682	5.20	ug/l	99
10) 1,1-Dichloroethene	2.318	96	5486	4.99	ug/l	88
11) Methyl Iodide	2.459	142	6020	5.50	ug/l	96
12) Methyl Acetate	2.709	43	7933	5.21	ug/l	94
13) Acrolein	2.245	56	6029	25.55	ug/l	97
14) Acrylonitrile	3.074	53	16532	26.63	ug/l	99
15) Acetone	2.392	58	4970	26.82	ug/l	71
16) Carbon Disulfide	2.514	76	15800	5.25	ug/l	100
17) Allyl chloride	2.666	41	10115	5.22	ug/l	97
18) Methylene Chloride	2.800	84	6871	5.25	ug/l	93
19) trans-1,2-Dichloroethene	3.099	96	5932	4.96	ug/l	88
20) Diisopropyl ether	3.769	45	18692	5.11	ug/l #	97
21) 1,1-Dichloroethane	3.611	63	11472	5.24	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	7334m	5.22	ug/l	
23) tert-Butyl Alcohol	2.977	59	8717	28.88	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	18268	5.10	ug/l	99
25) Chloroform	5.105	83	11633	5.24	ug/l	98
26) Cyclohexane	5.482	56	9424	5.22	ug/l #	62
29) 1,1-Dichloropropene	5.702	75	8563	5.09	ug/l	84
30) 2-Butanone	4.562	43	25440	26.73	ug/l	98
31) 2,2-Dichloropropane	4.489	77	10127m	5.13	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	10200	5.14	ug/l #	84
33) Carbon Tetrachloride	5.684	117	8396	4.99	ug/l	96
34) Benzene	6.049	78	26737	5.21	ug/l #	96
35) Methacrylonitrile	4.928	41	5505	5.40	ug/l	88
36) 1,2-Dichloroethane	6.098	62	9233	5.27	ug/l #	88
37) Trichloroethene	7.129	130	6661	5.17	ug/l	97
38) Methylcyclohexane	7.385	83	9594	5.03	ug/l	97
39) 1,2-Dichloropropane	7.439	63	6836	5.34	ug/l	96
40) Dibromomethane	7.586	93	4683	5.25	ug/l	98
41) Bromodichloromethane	7.830	83	9151	5.14	ug/l	93
42) Vinyl Acetate	3.727	43	90274	25.39	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	10276	5.31	ug/l #	80
44) Isopropyl Acetate	6.348	43	16622	5.21	ug/l	98
45) 1,4-Dioxane	7.683	88	3343	117.36	ug/l #	100
46) Methyl methacrylate	7.702	41	7838	5.30	ug/l	96
47) n-amyl Acetate	10.847	43	14034	5.29	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	10006	5.01	ug/l	94
49) cis-1,3-Dichloropropene	8.372	75	10961	5.11	ug/l	95
50) 1,1,2-Trichloroethane	9.159	97	6569	5.18	ug/l	95
51) Ethyl methacrylate	9.116	69	10507	5.13	ug/l	99
52) 1,3-Dichloropropane	9.311	76	11257	5.09	ug/l	97
53) Dibromochloromethane	9.524	129	6188	4.85	ug/l	92
54) 1,2-Dibromoethane	9.616	107	6684	5.13	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	26843	24.85	ug/l	99
56) Bromoform	10.805	173	3996	4.94	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	49805	25.60	ug/l	100
59) 2-Hexanone	9.433	43	37073	25.73	ug/l	99
61) Tetrachloroethene	9.274	164	5630	5.15	ug/l	93
62) Toluene	8.726	91	28373	5.14	ug/l	99
64) Chlorobenzene	10.085	112	17243	5.22	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.165	131	5851	4.85	ug/l	97
66) Ethyl Benzene	10.195	91	31238	5.14	ug/l	95
67) m/p-Xylenes	10.305	106	23815	10.34	ug/l	95
68) o-Xylene	10.646	106	11906	5.31	ug/l	94
69) Styrene	10.658	104	18286	4.87	ug/l	100
70) Isopropylbenzene	10.969	105	29828	5.06	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.219	83	10566	5.44	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	9350m	5.43	ug/l	
73) Bromobenzene	11.201	156	6657	5.33	ug/l	98
74) n-propylbenzene	11.305	91	33334	4.85	ug/l	96
75) 2-Chlorotoluene	11.366	91	21362	5.25	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	25094	5.10	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	3261	4.67	ug/l	98
78) 4-Chlorotoluene	11.457	91	23355	4.99	ug/l	97
79) tert-butylbenzene	11.719	119	24488	5.21	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	24834	5.05	ug/l	98
81) sec-Butylbenzene	11.896	105	30334	5.13	ug/l	98
82) p-Isopropyltoluene	12.012	119	24599	4.96	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	11585	4.90	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	11967	5.04	ug/l	97
85) n-Butylbenzene	12.335	91	21471	4.73	ug/l	99
86) Hexachloroethane	12.542	117	3963	4.81	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	11382	4.97	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2107	4.87	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	6516	4.64	ug/l	97
90) Hexachlorobutadiene	13.725	225	2656	4.89	ug/l	97
91) Naphthalene	13.780	128	25708	4.67	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	6198	4.45	ug/l	99

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

