

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031221\
 Data File : VX021172.D
 Acq On : 12 Mar 2021 10:16
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/15/2021 3:18:38 PM

Quant Time: Mar 12 11:49:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 12 11:46:12 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.976	128	13927	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	78268	30.00	ug/l	# 0.00
57) Chlorobenzene-d5	10.094	117	72686	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.023	65	40414	39.00	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery =	130.00%	#	
60) 4-Bromofluorobenzene	11.118	95	39417	32.03	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	106.77%		
63) Toluene-d8	8.694	98	99424	29.99	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.97%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.187	85	4945	6.31	ug/l	92
3) Chloromethane	1.311	50	5265	6.30	ug/l	98
4) Vinyl Chloride	1.393	62	5181	5.45	ug/l	98
5) Bromomethane	1.623	94	3359	8.24	ug/l	94
6) Chloroethane	1.711	64	3363	5.60	ug/l	90
7) Trichlorofluoromethane	1.917	101	8213	6.42	ug/l	96
8) Diethyl Ether	2.170	74	2622	4.81	ug/l	66
9) 1,1,2-Trichlorotrifluo...	2.370	101	4481	5.84	ug/l	94
10) 1,1-Dichloroethene	2.358	96	4207	5.38	ug/l	98
11) Methyl Iodide	2.493	142	4844	4.84	ug/l	95
12) Methyl Acetate	2.752	43	6027m	6.24	ug/l	
13) Acrolein	2.270	56	4741	35.80	ug/l	95
14) Acrylonitrile	3.111	53	12274	27.29	ug/l	97
15) Acetone	2.417	58	3594	27.89	ug/l	# 65
16) Carbon Disulfide	2.552	76	12346	5.55	ug/l	98
17) Allyl chloride	2.705	41	8751	6.65	ug/l	86
18) Methylene Chloride	2.829	84	5071	5.63	ug/l	84
19) trans-1,2-Dichloroethene	3.140	96	4597	5.28	ug/l	# 78
20) Diisopropyl ether	3.823	45	16735	6.30	ug/l	88
21) 1,1-Dichloroethane	3.670	63	8858	5.76	ug/l	100
22) cis-1,2-Dichloroethene	4.558	96	5145	5.14	ug/l	84
23) tert-Butyl Alcohol	3.011	59	6269	30.82	ug/l	# 100
24) Methyl tert-Butyl Ether	3.164	73	14736	5.25	ug/l	# 82
25) Chloroform	5.170	83	9281	5.86	ug/l	99
26) Cyclohexane	5.547	56	8108	5.86	ug/l	# 85
29) 1,1-Dichloropropene	5.764	75	6656	5.52	ug/l	93
30) 2-Butanone	4.635	43	18060	29.38	ug/l	# 90
31) 2,2-Dichloropropane	4.546	77	7432	5.37	ug/l	95
32) 1,1,1-Trichloroethane	5.464	97	8318	6.03	ug/l	95
33) Carbon Tetrachloride	5.747	117	6971	5.81	ug/l	97
34) Benzene	6.106	78	19075	5.30	ug/l	98
35) Methacrylonitrile	5.005	41	4129	6.15	ug/l	92
36) 1,2-Dichloroethane	6.158	62	8375	6.51	ug/l	# 92
37) Trichloroethene	7.188	130	5066	5.26	ug/l	99
38) Methylcyclohexane	7.441	83	7612	5.11	ug/l	90
39) 1,2-Dichloropropane	7.488	63	5143	5.65	ug/l	91
40) Dibromomethane	7.635	93	3752	5.97	ug/l	84
41) Bromodichloromethane	7.870	83	7681	5.85	ug/l	95
42) Vinyl Acetate	3.782	43	69649	30.29	ug/l	# 92

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43) Ethyl Acetate	4.794	43	7556	6.37	ug/l #	76
44) Isopropyl Acetate	6.411	43	11854	5.95	ug/l	92
45) 1,4-Dioxane	7.717	88	2307	103.77	ug/l #	84
46) Methyl methacrylate	7.741	41	6533	6.48	ug/l	78
47) n-amyl Acetate	10.877	43	9641	5.75	ug/l	92
48) t-1,3-Dichloropropene	9.024	75	7186	5.00	ug/l	92
49) cis-1,3-Dichloropropene	8.418	75	8141	5.22	ug/l #	87
50) 1,1,2-Trichloroethane	9.194	97	4805	5.33	ug/l	96
51) Ethyl methacrylate	9.159	69	7190	5.04	ug/l #	65
52) 1,3-Dichloropropane	9.353	76	8390	5.45	ug/l	98
53) Dibromochloromethane	9.565	129	5524	5.66	ug/l	99
54) 1,2-Dibromoethane	9.653	107	4966	5.25	ug/l	95
55) 2-Chloroethyl vinyl ether	8.288	63	19084	27.60	ug/l	96
56) Bromoform	10.836	173	3679	5.39	ug/l #	99
58) 4-Methyl-2-Pentanone	8.618	43	36257	29.58	ug/l #	88
59) 2-Hexanone	9.471	43	27176	29.38	ug/l	87
61) Tetrachloroethene	9.318	164	4804	5.50	ug/l #	86
62) Toluene	8.765	91	20326	5.03	ug/l	100
64) Chlorobenzene	10.118	112	12634	5.09	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.200	131	4781	5.20	ug/l	97
66) Ethyl Benzene	10.235	91	23453	5.20	ug/l	95
67) m/p-Xylenes	10.341	106	16355	9.80	ug/l	91
68) o-Xylene	10.683	106	8065	5.06	ug/l	90
69) Styrene	10.694	104	13151	4.77	ug/l	93
70) Isopropylbenzene	11.000	105	22263	5.17	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.253	83	7113	5.27	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	7398m	5.99	ug/l	
73) Bromobenzene	11.236	156	4941	4.88	ug/l	82
74) n-propylbenzene	11.341	91	25457	5.15	ug/l	95
75) 2-Chlorotoluene	11.400	91	15797	5.34	ug/l	96
76) 1,3,5-Trimethylbenzene	11.489	105	18502	5.20	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	2149	4.31	ug/l	77
78) 4-Chlorotoluene	11.494	91	18312	5.38	ug/l	98
79) tert-butylbenzene	11.753	119	16910	4.97	ug/l	90
80) 1,2,4-Trimethylbenzene	11.789	105	18910	5.25	ug/l	96
81) sec-Butylbenzene	11.930	105	20200	4.93	ug/l	100
82) p-Isopropyltoluene	12.047	119	18172	4.90	ug/l	96
83) 1,3-Dichlorobenzene	12.006	146	8564	4.65	ug/l	95
84) 1,4-Dichlorobenzene	12.083	146	8734	4.82	ug/l	95
85) n-Butylbenzene	12.371	91	16535	4.92	ug/l	97
86) Hexachloroethane	12.577	117	3353	4.81	ug/l	87
87) 1,2-Dichlorobenzene	12.377	146	8649	4.96	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.983	75	1607	5.13	ug/l #	80
89) 1,2,4-Trichlorobenzene	13.630	180	4920	4.29	ug/l	97
90) Hexachlorobutadiene	13.765	225	2481	5.33	ug/l	97
91) Naphthalene	13.818	128	14632	3.72	ug/l	97
92) 1,2,3-Trichlorobenzene	14.007	180	4762	4.23	ug/l	96

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

