

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031221\
 Data File : VX021177.D
 Acq On : 12 Mar 2021 12:09
 Operator : JC/MD
 Sample : VSTDIC200
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC200

Manual Integrations
 APPROVED

MMDadoda
 3/15/2021 3:18:47 PM

Quant Time: Mar 12 12:31:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 12 12:20:33 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.988	128	14739	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.835	114	83076	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.100	117	76696	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.035	65	40087	36.56	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 121.87%#		
60) 4-Bromofluorobenzene	11.124	95	42772	32.94	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 109.80%		
63) Toluene-d8	8.700	98	105695	30.22	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.73%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.187	85	195777	236.20	ug/l	98
3) Chloromethane	1.311	50	199322	225.30	ug/l	98
4) Vinyl Chloride	1.399	62	208561	207.18	ug/l	99
5) Bromomethane	1.622	94	113154	262.23	ug/l	97
6) Chloroethane	1.693	64	125082	196.94	ug/l	97
7) Trichlorofluoromethane	1.905	101	318583	235.21	ug/l	99
8) Diethyl Ether	2.170	74	108895	188.69	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.364	101	176731	217.73	ug/l	96
10) 1,1-Dichloroethene	2.352	96	172900	208.99	ug/l	88
11) Methyl Iodide	2.493	142	258055	243.39	ug/l	92
12) Methyl Acetate	2.752	43	294599	288.31	ug/l #	86
13) Acrolein	2.276	56	185944	1326.89	ug/l	99
14) Acrylonitrile	3.123	53	540592	1135.81	ug/l	98
15) Acetone	2.423	58	137926	1011.31	ug/l #	67
16) Carbon Disulfide	2.552	76	504740	214.27	ug/l	100
17) Allyl chloride	2.705	41	361322	259.36	ug/l	88
18) Methylene Chloride	2.834	84	203051	213.00	ug/l #	84
19) trans-1,2-Dichloroethene	3.140	96	190461	206.60	ug/l #	84
20) Diisopropyl ether	3.829	45	712056	253.14	ug/l	95
21) 1,1-Dichloroethane	3.670	63	374860	230.34	ug/l	96
22) cis-1,2-Dichloroethene	4.564	96	223865	211.52	ug/l	90
23) tert-Butyl Alcohol	3.040	59	224590	1043.23	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	666361	224.50	ug/l #	86
25) Chloroform	5.182	83	392395	234.20	ug/l	98
26) Cyclohexane	5.552	56	335129	228.93	ug/l #	90
29) 1,1-Dichloropropene	5.770	75	289059	225.99	ug/l	97
30) 2-Butanone	4.641	43	787845	1207.41	ug/l	92
31) 2,2-Dichloropropane	4.552	77	328192	223.38	ug/l	96
32) 1,1,1-Trichloroethane	5.470	97	351827	240.35	ug/l	96
33) Carbon Tetrachloride	5.758	117	310019	243.39	ug/l	98
34) Benzene	6.117	78	821700	215.01	ug/l #	97
35) Methacrylonitrile	5.011	41	185915	261.02	ug/l	90
36) 1,2-Dichloroethane	6.164	62	345010	252.74	ug/l #	93
37) Trichloroethene	7.194	130	215884	211.07	ug/l	93
38) Methylcyclohexane	7.441	83	333224	210.78	ug/l	93
39) 1,2-Dichloropropane	7.494	63	223105	230.74	ug/l	98
40) Dibromomethane	7.641	93	157734	236.50	ug/l	90
41) Bromodichloromethane	7.876	83	335745	240.86	ug/l	98
42) Vinyl Acetate	3.793	43	3067278	1256.71	ug/l #	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.799	43	313920	249.34	ug/l	99
44) Isopropyl Acetate	6.417	43	546350	258.21	ug/l	91
45) 1,4-Dioxane	7.723	88	93994	3983.03	ug/l #	88
46) Methyl methacrylate	7.747	41	288981	270.14	ug/l	83
47) n-amyl Acetate	10.883	43	496583	279.03	ug/l	90
48) t-1,3-Dichloropropene	9.023	75	367865	240.96	ug/l	99
49) cis-1,3-Dichloropropene	8.418	75	380251	229.69	ug/l #	84
50) 1,1,2-Trichloroethane	9.200	97	210684	220.15	ug/l	97
51) Ethyl methacrylate	9.165	69	345237	227.81	ug/l	77
52) 1,3-Dichloropropane	9.353	76	368249	225.52	ug/l	98
53) Dibromochloromethane	9.565	129	252335	243.38	ug/l	99
54) 1,2-Dibromoethane	9.659	107	225396	224.29	ug/l	98
55) 2-Chloroethyl vinyl ether	8.294	63	878454	1197.13	ug/l	97
56) Bromoform	10.841	173	181090	249.84	ug/l	99
58) 4-Methyl-2-Pentanone	8.629	43	1589959	1229.36	ug/l #	89
59) 2-Hexanone	9.476	43	1205970	1235.55	ug/l	89
61) Tetrachloroethene	9.318	164	209114	226.98	ug/l	97
62) Toluene	8.770	91	906326	212.54	ug/l	99
64) Chlorobenzene	10.124	112	553442	211.32	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.206	131	211660	218.09	ug/l	99
66) Ethyl Benzene	10.235	91	1032989	217.03	ug/l	97
67) m/p-Xylenes	10.347	106	742493	421.53	ug/l	96
68) o-Xylene	10.682	106	354944	211.26	ug/l	91
69) Styrene	10.700	104	621659	213.55	ug/l	94
70) Isopropylbenzene	11.006	105	988472	217.64	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.253	83	309207	217.09	ug/l	99
72) 1,2,3-Trichloropropane	11.283	75	300662m	230.73	ug/l	
73) Bromobenzene	11.241	156	239849	224.53	ug/l	91
74) n-propylbenzene	11.347	91	1183014	226.89	ug/l	99
75) 2-Chlorotoluene	11.406	91	694665	222.43	ug/l	98
76) 1,3,5-Trimethylbenzene	11.494	105	841464	224.01	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	116833	221.99	ug/l	92
78) 4-Chlorotoluene	11.494	91	829820	230.85	ug/l	99
79) tert-butylbenzene	11.753	119	808076	225.08	ug/l	95
80) 1,2,4-Trimethylbenzene	11.794	105	857518	225.73	ug/l	98
81) sec-Butylbenzene	11.930	105	967028	223.65	ug/l	100
82) p-Isopropyltoluene	12.047	119	893303	228.22	ug/l	96
83) 1,3-Dichlorobenzene	12.012	146	442698	227.75	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	444628	232.39	ug/l	97
85) n-Butylbenzene	12.371	91	852897	240.73	ug/l	97
86) Hexachloroethane	12.583	117	168858	229.58	ug/l	96
87) 1,2-Dichlorobenzene	12.377	146	424516	230.81	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	83503	252.57	ug/l #	80
89) 1,2,4-Trichlorobenzene	13.630	180	302735	250.24	ug/l	97
90) Hexachlorobutadiene	13.765	225	117099	238.40	ug/l	98
91) Naphthalene	13.818	128	970116	233.80	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	295127	248.17	ug/l	97

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

