For the column name --- rejected count rate countM: Mardia's test countH: Henze-Zirkler's test countR: Royston's test countN: N-statistic (energy test) count2: Any 2 rejected tests Seed times: 500

For the row name --composition:a b, rho:c d, df:g h probes(dimension):e, size:f

a\*t\_(e)(g) + b\*t\_(e)(h) , sample size = f , dimension = e, mix proportion: a, b, a + b = 1, rho: c, d, it represents the correlation matrix with compound symmetry structure with correlation c and d for the two multivariate t distributions respectively.

multivariate t distribution				countN	countHR		countRN		countHRN
composition:1,rho:0.9,df:3,probes:2,size:10 composition:1,rho:0.9,df:3,probes:2,size:30	0.278 0.68	0.196 0.602	0.224 0.572	0.238 0.656	0.12 0.47	0.192 0.594	0.146 0.506	0.222	0.118 0.468
composition:1,rho:0.9,df:3,probes:2,size:50	0.08	0.804	0.372	0.844	0.706	0.802	0.738	0.834	0.706
composition:1,rho:0.9,df:3,probes:2,size:100	0.904	0.962	0.924	0.968	0.908	0.944	0.902	0.974	0.89
composition:1,rho:0.9,df:3,probes:4,size:10	0.242	0.172	0.266	0.252	0.09	0.168	0.118	0.196	0.09
composition:1,rho:0.9,df:3,probes:4,size:30 composition:1,rho:0.9,df:3,probes:4,size:50	0.906 0.972	0.78 0.952	0.614 0.812	0.884	0.558 0.792	0.778 0.952	0.592 0.806	0.816 0.966	0.556 0.792
composition:1,rho:0.9,df:3,probes:4,size:100	1	0.998	0.972	1	0.972		0.972	0.998	0.972
composition:1,rho:0.9,df:3,probes:8,size:10	0 002	0.13	0.262	0.116	0.042	0.1	0.044	0.11	0.038
composition:1,rho:0.9,df:3,probes:8,size:30 composition:1,rho:0.9,df:3,probes:8,size:50	0.992	0.864	0.638 0.824	0.976 1	0.596 0.818	0.864	0.632 0.824	0.9 0.996	0.596 0.818
composition:1,rho:0.9,df:3,probes:8,size:100	1	1	0.978	1	0.978	1	0.978	1	0.978
composition:1,rho:0.9,df:3,probes:9,size:10	0	1	0.25	0.216	0.25	0.216	0.058	0.408	0.058
composition: 1, rho: 0.9, df: 3, probes: 9, size: 30	0.996	0.864	0.67	0.982	0.604 0.85	0.862 0.998	0.666	0.928 0.998	0.602
composition:1,rho:0.9,df:3,probes:9,size:50 composition:1,rho:0.9,df:3,probes:9,size:100	1 1	0.998	0.85 0.972	1	0.83	0.998	0.85 0.972	0.998	0.85 0.972
composition:1,rho:0.9,df:9,probes:2,size:10	0.104	0.064	0.074	0.082	0.024	0.06	0.032	0.068	0.024
composition:1,rho:0.9,df:9,probes:2,size:30	0.236	0.112	0.18	0.158	0.066		0.082	0.132	0.06
composition:1,rho:0.9,df:9,probes:2,size:50 composition:1,rho:0.9,df:9,probes:2,size:100	0.29 0.396	0.158 0.27	0.232	0.212 0.356	0.09 0.166	0.15 0.258	0.116 0.23	0.18 0.322	0.088 0.166
composition: 1,rho:0.9,df:9,probes:4,size:10	0.068	0.052	0.102	0.108	0.016		0.03	0.062	0.016
composition:1,rho:0.9,df:9,probes:4,size:30	0.408	0.172	0.22	0.302	0.07	0.168	0.118	0.216	0.07
composition:1,rho:0.9,df:9,probes:4,size:50 composition:1,rho:0.9,df:9,probes:4,size:100	0.536	0.24	0.27	0.396	0.118	0.234	0.172	0.292	0.116
composition:1,rho:0.9,df:9,probes:4,size:100	0.702	0.44	0.414	0.666 0.086	0.246 0.014	0.436 0.076	0.34 0.012	0.53 0.082	0.246 0.01
composition:1,rho:0.9,df:9,probes:8,size:30	0.638	0.186	0.184	0.482	0.038	0.182	0.12	0.264	0.038
composition:1,rho:0.9,df:9,probes:8,size:50	0.834	0.358	0.256	0.704	0.098	0.352	0.204	0.458	0.098
composition:1,rho:0.9,df:9,probes:8,size:100 composition:1,rho:0.9,df:9,probes:9,size:10	0.962	0.732	0.408	0.948 0.138	0.324 0.094	0.732 0.138	0.392	0.8	0.324
composition:1,rho:0.9,df:9,probes:9,size:30	0.634	0.182	0.094	0.136	0.052	0.136	0.128	0.222	0.01
composition:1,rho:0.9,df:9,probes:9,size:50	0.9	0.418	0.306	0.794	0.138	0.418	0.276	0.556	0.138
composition:1,rho:0.9,df:9,probes:9,size:100	0.984	0.726	0.432	0.97	0.346			0.806	0.346
composition:1,rho:0.9,df:15,probes:2,size:10 composition:1,rho:0.9,df:15,probes:2,size:30	0.07 0.158	0.056 0.096	0.056	0.074	0.016 0.054	0.054 0.086	0.026 0.07	0.064	0.016 0.048
composition:1,rho:0.9,df:15,probes:2,size:50	0.168	0.088	0.152	0.12	0.048	0.084	0.06	0.1	0.046
composition:1,rho:0.9,df:15,probes:2,size:100	0.25	0.088	0.222	0.144	0.05	0.088	0.078	0.116	0.05
composition:1,rho:0.9,df:15,probes:4,size:10 composition:1,rho:0.9,df:15,probes:4,size:30	0.042 0.274	0.052	0.092 0.144	0.08 0.176	0.02 0.028	0.044	0.028 0.052	0.052 0.122	0.02
composition:1,rho:0.9,df:15,probes:4,size:50	0.346	0.112	0.174	0.218	0.020	0.104	0.032	0.122	0.020
composition:1,rho:0.9,df:15,probes:4,size:100	0.432	0.206	0.256	0.332	0.088	0.19	0.142	0.248	0.086
composition: 1,rho:0.9,df:15,probes:8,size:10	0 262	0.104	0.084	0.086	0.012	0.078	0.01	0.08	0.01
composition:1,rho:0.9,df:15,probes:8,size:30 composition:1,rho:0.9,df:15,probes:8,size:50	0.362 0.618	0.096 0.152	0.132 0.158	0.248 0.422	0.024 0.046	0.086 0.146	0.054 0.086	0.116 0.186	0.024 0.046
composition:1,rho:0.9,df:15,probes:8,size:100	0.774	0.352	0.24	0.674	0.126	0.342	0.204	0.424	0.124
composition:1,rho:0.9,df:15,probes:9,size:10	0	1	0.074	0.156	0.074	0.156		0.208	0.022
composition:1,rho:0.9,df:15,probes:9,size:30 composition:1,rho:0.9,df:15,probes:9,size:50	0.374 0.654	0.094 0.134	0.144 0.178	0.252 0.46	0.028 0.036	0.074 0.126	0.058 0.116	0.116	0.022
composition:1,rho:0.9,df:15,probes:9,size:100	0.826	0.134	0.178	0.712	0.030	0.120	0.110	0.21	0.09
composition:1,rho:0,df:3,probes:2,size:10	0.278	0.196	0.27	0.238	0.164	0.192	0.186	0.218	0.162
composition:1,rho:0,df:3,probes:2,size:30 composition:1,rho:0,df:3,probes:2,size:50	0.68	0.602 0.804	0.712	0.656	0.574	0.594 0.802	0.62 0.808	0.648	0.57
composition:1,rho:0,df:3,probes:2,size:30	0.78 0.904	0.804	0.85 0.982	0.844 0.968	0.774 0.956		0.808	0.84 0.984	0.772 0.938
composition:1,rho:0,df:3,probes:4,size:10	0.242	0.172	0.38	0.252	0.13	0.168	0.176	0.218	0.128
composition:1,rho:0,df:3,probes:4,size:30	0.906	0.78	0.84	0.884	0.72		0.798	0.86	0.718
composition:1,rho:0,df:3,probes:4,size:50 composition:1,rho:0,df:3,probes:4,size:100	0.972 1	0.952 0.998	0.96	0.98	0.926 0.998	0.952 0.998	0.95	0.976	0.926 0.998
composition:1,rho:0,df:3,probes:8,size:10	0	0.13	0.444	0.116	0.074	0.556	0.07	0.12	0.062
composition:1,rho:0,df:3,probes:8,size:30	0.992	0.864	0.956	0.976	0.838	0.864	0.94	0.966	0.838
composition:1,rho:0,df:3,probes:8,size:50	1	0.99	0.998	1	0.988	0.99	0.998	1	0.988
composition:1,rho:0,df:3,probes:8,size:100 composition:1,rho:0,df:3,probes:9,size:10	1 0	1	0.446	0.07	0.446	0.07	0.042	0.474	0.042
composition:1,rho:0,df:3,probes:9,size:30	0.996	0.864	0.948	0.982	0.828	0.862	0.936	0.97	0.828
composition:1,rho:0,df:3,probes:9,size:50	1	0.998	0.998	1	0.996	0.998	0.998	1	0.996
composition:1,rho:0,df:3,probes:9,size:100 composition:1,rho:0,df:9,probes:2,size:10	0.104	0.064	0.084	0.082	0.03	0.06	0.04	0.074	0.028
composition:1,rho:0,df:9,probes:2,size:30	0.236	0.112	0.228	0.158	0.03	0.104	0.114	0.14	0.028
composition:1,rho:0,df:9,probes:2,size:50	0.29	0.158	0.296	0.212	0.112	0.15	0.154	0.196	0.11
composition:1,rho:0,df:9,probes:2,size:100	0.396	0.27	0.474	0.356	0.224	0.258	0.288	0.334	0.218
composition:1,rho:0,df:9,probes:4,size:10 composition:1,rho:0,df:9,probes:4,size:30	0.068 0.408	0.052 0.172	0.116 0.338	0.108 0.302	0.018 0.12	0.048 0.168	0.038 0.202	0.068	0.018 0.12
composition:1,rho:0,df:9,probes:4,size:50	0.536	0.24	0.44	0.396	0.186		0.298	0.346	0.186
composition:1,rho:0,df:9,probes:4,size:100	0.702	0.44	0.618	0.666	0.34	0.436	0.508	0.608	0.338
composition:1,rho:0,df:9,probes:8,size:10 composition:1,rho:0,df:9,probes:8,size:30	0.638	0.098 0.186	0.116 0.44	0.086 0.482	0.02 0.132		0.016 0.318	0.08 0.372	0.016 0.13
composition:1,rho:0,df:9,probes:8,size:50	0.834	0.180	0.582	0.462	0.132			0.588	0.13
composition:1,rho:0,df:9,probes:8,size:100	0.962	0.732	0.854	0.948	0.664	0.732		0.902	0.664
composition:1,rho:0,df:9,probes:9,size:10	0	1	0.12	0.066	0.12			0.182	0.004
composition:1,rho:0,df:9,probes:9,size:30 composition:1,rho:0,df:9,probes:9,size:50	0.634	0.182 0.418	0.428 0.634	0.49 0.794	0.118 0.316		0.286 0.566	0.348 0.668	0.116 0.316
composition:1,rho:0,df:9,probes:9,size:100	0.984	0.726	0.864	0.794	0.510	0.726		0.916	0.510
composition:1,rho:0,df:15,probes:2,size:10	0.07	0.056	0.076	0.074	0.028	0.054	0.038	0.064	0.028
composition:1,rho:0,df:15,probes:2,size:30	0.158	0.096	0.156	0.12	0.058	0.086		0.114	0.054
composition:1,rho:0,df:15,probes:2,size:50 composition:1,rho:0,df:15,probes:2,size:100	0.168 0.25	0.088	0.192 0.276	0.12 0.144	0.064 0.06	0.084	0.082 0.104	0.106 0.132	0.062
composition:1,rho:0,df:15,probes:4,size:10	0.23	0.052	0.270	0.144	0.012	0.088	0.104	0.152	0.00
composition:1,rho:0,df:15,probes:4,size:30	0.274	0.1	0.2	0.176	0.054	0.094	0.09	0.134	0.052
composition:1,rho:0,df:15,probes:4,size:50	0.346	0.112	0.266	0.218	0.068	0.104	0.14	0.18	0.066
composition:1,rho:0,df:15,probes:4,size:100 composition:1,rho:0,df:15,probes:8,size:10	0.432	0.206 0.104	0.364	0.332 0.086	0.132 0.018	0.19 0.078	0.214 0.016	0.276	0.13
composition:1,rho:0,df:15,probes:8,size:10	0.362	0.104	0.08	0.086	0.018	0.078	0.016	0.08	0.016
composition:1,rho:0,df:15,probes:8,size:50	0.618	0.152	0.35	0.422	0.092	0.146	0.228	0.282	0.092
composition:1,rho:0,df:15,probes:8,size:100	0.774	0.352	0.528	0.674	0.226		0.412	0.54	0.22
composition:1,rho:0,df:15,probes:9,size:10 composition:1,rho:0,df:15,probes:9,size:30	0.374	0.094	0.082	0.052 0.252	0.082 0.036	0.052 0.074	0.094	0.134	0.032
composition:1,rho:0,df:15,probes:9,size:50	0.654	0.134	0.354	0.232	0.050	0.126		0.14	0.052
composition: 1,1110.0,ur.15,probes.5,size.50									