Tables of simulation results

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Simple random sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.100	0.045	0.008
WaldVCF	1000	1000	2	0.098	0.045	0.008
WaldDiag,MM3	1000	1000	2	0.032	0.007	0.000
WaldDiag,RS2	1000	1000	2	0.032	0.008	0.000
Pearson,MM3	1000	1000	2	0.073	0.029	0.004
Pearson,RS2	1000	1000	2	0.072	0.030	0.004
1F 8V						
Wald	1000	1000	0	0.094	0.043	0.008
WaldVCF	1000	1000	0	0.092	0.041	0.008
WaldDiag,MM3	1000	1000	0	0.052	0.023	0.005
WaldDiag,RS2	1000	1000	0	0.054	0.024	0.005
Pearson,MM3	1000	1000	0	0.086	0.038	0.004
Pearson,RS2	1000	1000	0	0.086	0.043	0.005
1F 15V						
Wald	1000	1000	15	0.102	0.064	0.020
WaldVCF	1000	1000	15	0.101	0.061	0.019
WaldDiag,MM3	1000	1000	15	0.065	0.033	0.008
WaldDiag,RS2	1000	1000	15	0.066	0.034	0.009
Pearson,MM3	1000	1000	15	0.093	0.043	0.010
Pearson,RS2	1000	1000	15	0.094	0.047	0.011
2F 10V						
Wald	1000	1000	8	0.112	0.053	0.010
WaldVCF	1000	1000	8	0.105	0.051	0.008
WaldDiag,MM3	1000	1000	8	0.026	0.005	0.000
WaldDiag,RS2	1000	1000	8	0.028	0.005	0.000
Pearson,MM3	1000	1000	8	0.081	0.044	0.009
Pearson,RS2	1000	1000	8	0.081	0.045	0.009
3F 15V						
Wald	1000	1000	24	0.113	0.063	0.005
WaldVCF	1000	1000	24	0.106	0.058	0.004
WaldDiag,MM3	1000	1000	24	0.025	0.008	0.000
WaldDiag,RS2	1000	1000	24	0.026	0.009	0.000
Pearson,MM3	1000	1000	24	0.091	0.050	0.008
Pearson,RS2	1000	1000	24	0.093	0.053	0.009

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.116	0.064	0.008
WaldVCF	1000	1000	0	0.114	0.061	0.008
WaldDiag,MM3	1000	1000	0	0.065	0.031	0.003
WaldDiag,RS2	1000	1000	0	0.064	0.032	0.003
Pearson,MM3	1000	1000	0	0.087	0.046	0.012
Pearson,RS2	1000	1000	0	0.087	0.050	0.014
1F 8V						
Wald	1000	1000	1	0.112	0.067	0.008
WaldVCF	1000	1000	1	0.111	0.066	0.008
WaldDiag,MM3	1000	1000	1	0.083	0.040	0.008
WaldDiag,RS2	1000	1000	1	0.083	0.041	0.009
Pearson,MM3	1000	1000	1	0.094	0.039	0.004
Pearson,RS2	1000	1000	1	0.096	0.043	0.008
1F 15V						
Wald	1000	1000	7	0.098	0.058	0.017
WaldVCF	1000	1000	7	0.097	0.058	0.016
WaldDiag,MM3	1000	1000	7	0.066	0.042	0.010
WaldDiag,RS2	1000	1000	7	0.067	0.042	0.011
Pearson,MM3	1000	1000	7	0.094	0.045	0.013
Pearson,RS2	1000	1000	7	0.095	0.048	0.014
2F 10V						
Wald	1000	1000	5	0.101	0.051	0.012
WaldVCF	1000	1000	5	0.097	0.050	0.011
WaldDiag,MM3	1000	1000	5	0.052	0.023	0.002
WaldDiag,RS2	1000	1000	5	0.054	0.023	0.003
Pearson,MM3	1000	1000	5	0.104	0.056	0.014
Pearson,RS2	1000	1000	5	0.105	0.061	0.016
3F 15V						
Wald	1000	1000	34	0.115	0.061	0.013
WaldVCF	1000	1000	34	0.109	0.056	0.013
WaldDiag,MM3	1000	1000	34	0.057	0.025	0.006
WaldDiag,RS2	1000	1000	34	0.057	0.026	0.007
Pearson,MM3	1000	1000	34	0.108	0.064	0.012
Pearson,RS2	1000	1000	34	0.111	0.067	0.017

Type I errors ($n = 2000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.097	0.046	0.015
WaldVCF	1000	1000	0	0.096	0.046	0.015
WaldDiag,MM3	1000	1000	0	0.067	0.029	0.010
WaldDiag,RS2	1000	1000	0	0.066	0.030	0.013
Pearson,MM3	1000	1000	0	0.090	0.048	0.014
Pearson,RS2	1000	1000	0	0.088	0.049	0.015
1F 8V						
Wald	1000	1000	4	0.099	0.046	0.007
WaldVCF	1000	1000	4	0.099	0.046	0.007
WaldDiag,MM3	1000	1000	4	0.079	0.033	0.008
WaldDiag,RS2	1000	1000	4	0.081	0.036	0.009
Pearson,MM3	1000	1000	4	0.097	0.053	0.009
Pearson,RS2	1000	1000	4	0.097	0.059	0.012
1F 15V						
Wald	1000	1000	19	0.090	0.045	0.006
WaldVCF	1000	1000	19	0.089	0.045	0.006
WaldDiag,MM3	1000	1000	19	0.067	0.032	0.008
WaldDiag,RS2	1000	1000	19	0.067	0.034	0.008
Pearson,MM3	1000	1000	19	0.103	0.052	0.013
Pearson,RS2	1000	1000	19	0.104	0.057	0.015
2F 10V						
Wald	1000	1000	15	0.108	0.061	0.009
WaldVCF	1000	1000	15	0.107	0.059	0.008
WaldDiag,MM3	1000	1000	15	0.080	0.042	0.006
WaldDiag,RS2	1000	1000	15	0.081	0.044	0.009
Pearson,MM3	1000	1000	15	0.086	0.046	0.009
Pearson,RS2	1000	1000	15	0.087	0.050	0.011
3F 15V						
Wald	1000	1000	47	0.110	0.063	0.019
WaldVCF	1000	1000	47	0.096	0.058	0.016
WaldDiag,MM3	1000	1000	47	0.072	0.043	0.007
WaldDiag,RS2	1000	1000	47	0.076	0.044	0.009
Pearson,MM3	1000	1000	47	0.108	0.048	0.011
Pearson,RS2	1000	1000	47	0.110	0.050	0.012

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.092	0.051	0.005
WaldVCF	1000	1000	1	0.090	0.050	0.005
WaldDiag,MM3	1000	1000	1	0.072	0.036	0.002
WaldDiag,RS2	1000	1000	1	0.071	0.037	0.003
Pearson,MM3	1000	1000	1	0.085	0.044	0.007
Pearson,RS2	1000	1000	1	0.084	0.045	0.008
1F 8V						
Wald	1000	1000	1	0.104	0.049	0.005
WaldVCF	1000	1000	1	0.104	0.048	0.005
WaldDiag,MM3	1000	1000	1	0.090	0.043	0.006
WaldDiag,RS2	1000	1000	1	0.092	0.045	0.006
Pearson,MM3	1000	1000	1	0.094	0.044	0.010
Pearson,RS2	1000	1000	1	0.095	0.050	0.013
1F 15V						
Wald	1000	1000	27	0.109	0.059	0.006
WaldVCF	1000	1000	27	0.107	0.056	0.006
WaldDiag,MM3	1000	1000	27	0.097	0.049	0.010
WaldDiag,RS2	1000	1000	27	0.097	0.051	0.012
Pearson,MM3	1000	1000	27	0.107	0.049	0.011
Pearson,RS2	1000	1000	27	0.108	0.050	0.015
2F 10V						
Wald	1000	1000	16	0.106	0.057	0.010
WaldVCF	1000	1000	16	0.104	0.051	0.009
WaldDiag,MM3	1000	1000	16	0.072	0.043	0.005
WaldDiag,RS2	1000	1000	16	0.073	0.043	0.006
Pearson,MM3	1000	1000	16	0.088	0.035	0.011
Pearson,RS2	1000	1000	16	0.092	0.037	0.012
3F 15V						
Wald	1000	1000	47	0.117	0.059	0.010
WaldVCF	1000	1000	47	0.104	0.056	0.010
WaldDiag,MM3	1000	1000	47	0.086	0.038	0.007
WaldDiag,RS2	1000	1000	47	0.086	0.040	0.008
Pearson,MM3	1000	1000	47	0.098	0.053	0.012
Pearson,RS2	1000	1000	47	0.100	0.054	0.015

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.105	0.051	0.014
WaldVCF	1000	1000	1	0.102	0.051	0.014
WaldDiag,MM3	1000	1000	1	0.098	0.054	0.015
WaldDiag,RS2	1000	1000	1	0.097	0.056	0.015
Pearson,MM3	1000	1000	1	0.105	0.060	0.015
Pearson,RS2	1000	1000	1	0.105	0.060	0.019
1F 8V						
Wald	1000	1000	6	0.091	0.043	0.006
WaldVCF	1000	1000	6	0.090	0.041	0.006
WaldDiag,MM3	1000	1000	6	0.068	0.032	0.003
WaldDiag,RS2	1000	1000	6	0.068	0.032	0.004
Pearson,MM3	1000	1000	6	0.094	0.047	0.011
Pearson,RS2	1000	1000	6	0.095	0.048	0.012
1F 15V						
Wald	1000	1000	24	0.103	0.046	0.012
WaldVCF	1000	1000	24	0.099	0.043	0.012
WaldDiag,MM3	1000	1000	24	0.092	0.046	0.012
WaldDiag,RS2	1000	1000	24	0.094	0.047	0.012
Pearson,MM3	1000	1000	24	0.105	0.056	0.011
Pearson,RS2	1000	1000	24	0.105	0.059	0.011
2F 10V						
Wald	1000	1000	17	0.104	0.045	0.008
WaldVCF	1000	1000	17	0.097	0.044	0.007
WaldDiag,MM3	1000	1000	17	0.072	0.036	0.007
WaldDiag,RS2	1000	1000	17	0.074	0.038	0.008
Pearson,MM3	1000	1000	17	0.090	0.038	0.009
Pearson,RS2	1000	1000	17	0.091	0.041	0.012
3F 15V						
Wald	1000	1000	63	0.111	0.049	0.007
WaldVCF	1000	1000	63	0.094	0.044	0.007
WaldDiag,MM3	1000	1000	63	0.070	0.036	0.007
WaldDiag,RS2	1000	1000	63	0.072	0.037	0.008
Pearson,MM3	1000	1000	63	0.089	0.045	0.015
Pearson,RS2	1000	1000	63	0.090	0.050	0.016

Type I errors ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.098	0.049	0.005
WaldVCF	1000	1000	1	0.098	0.046	0.005
WaldDiag,MM3	1000	1000	1	0.083	0.044	0.008
WaldDiag,RS2	1000	1000	1	0.083	0.048	0.010
Pearson,MM3	1000	1000	1	0.102	0.055	0.011
Pearson,RS2	1000	1000	1	0.100	0.056	0.013
1F 8V						
Wald	1000	1000	11	0.095	0.050	0.014
WaldVCF	1000	1000	11	0.095	0.048	0.014
WaldDiag,MM3	1000	1000	11	0.084	0.041	0.013
WaldDiag,RS2	1000	1000	11	0.084	0.044	0.013
Pearson,MM3	1000	1000	11	0.092	0.041	0.007
Pearson,RS2	1000	1000	11	0.092	0.042	0.011
1F 15V						
Wald	1000	1000	36	0.104	0.046	0.009
WaldVCF	1000	1000	36	0.102	0.045	0.009
WaldDiag,MM3	1000	1000	36	0.085	0.040	0.008
WaldDiag,RS2	1000	1000	36	0.086	0.041	0.008
Pearson,MM3	1000	1000	36	0.090	0.043	0.005
Pearson,RS2	1000	1000	36	0.092	0.045	0.006
2F 10V						
Wald	1000	1000	26	0.095	0.038	0.006
WaldVCF	1000	1000	26	0.090	0.035	0.006
WaldDiag,MM3	1000	1000	26	0.088	0.038	0.009
WaldDiag,RS2	1000	1000	26	0.088	0.043	0.009
Pearson,MM3	1000	1000	26	0.080	0.037	0.011
Pearson,RS2	1000	1000	26	0.080	0.041	0.012
3F 15V						
Wald	1000	1000	79	0.116	0.061	0.012
WaldVCF	1000	1000	79	0.107	0.053	0.011
WaldDiag,MM3	1000	1000	79	0.094	0.045	0.009
WaldDiag,RS2	1000	1000	79	0.095	0.050	0.012
Pearson,MM3	1000	1000	79	0.102	0.051	0.011
Pearson,RS2	1000	1000	79	0.104	0.051	0.014

Power ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.302	0.188	0.076
WaldVCF	1000	1000	1	0.299	0.186	0.074
WaldDiag,MM3	1000	1000	1	0.128	0.060	0.007
WaldDiag,RS2	1000	1000	1	0.128	0.064	0.008
Pearson,MM3	1000	1000	1	0.304	0.201	0.066
Pearson,RS2	1000	1000	1	0.303	0.204	0.079
1F 8V						
Wald	1000	1000	1	0.604	0.469	0.274
WaldVCF	1000	1000	1	0.601	0.465	0.272
WaldDiag,MM3	1000	1000	1	0.385	0.262	0.090
WaldDiag,RS2	1000	1000	1	0.386	0.271	0.097
Pearson,MM3	1000	1000	1	0.340	0.210	0.076
Pearson,RS2	1000	1000	1	0.344	0.220	0.090
1F 15V						
Wald	1000	1000	6	0.412	0.296	0.118
WaldVCF	1000	1000	6	0.402	0.285	0.112
WaldDiag,MM3	1000	1000	6	0.292	0.176	0.058
WaldDiag,RS2	1000	1000	6	0.295	0.178	0.066
Pearson,MM3	1000	1000	6	0.558	0.440	0.235
Pearson,RS2	1000	1000	6	0.558	0.448	0.260
2F 10V						
Wald	1000	1000	4	0.187	0.122	0.039
WaldVCF	1000	1000	4	0.179	0.115	0.034
WaldDiag,MM3	1000	1000	4	0.103	0.048	0.009
WaldDiag,RS2	1000	1000	4	0.103	0.053	0.011
Pearson,MM3	1000	1000	4	0.226	0.142	0.044
Pearson,RS2	1000	1000	4	0.228	0.150	0.052
3F 15V						
Wald	999	999	22	0.252	0.165	0.055
WaldVCF	999	999	22	0.233	0.146	0.047
WaldDiag,MM3	999	999	22	0.144	0.089	0.021
WaldDiag,RS2	999	999	22	0.148	0.091	0.023
Pearson,MM3	999	999	22	0.275	0.175	0.078
Pearson,RS2	999	999	22	0.279	0.177	0.088

Power ($n = 1000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.546	0.427	0.222
WaldVCF	1000	1000	0	0.546	0.424	0.220
WaldDiag,MM3	1000	1000	0	0.372	0.247	0.086
WaldDiag,RS2	1000	1000	0	0.372	0.252	0.094
Pearson,MM3	1000	1000	0	0.560	0.449	0.245
Pearson,RS2	1000	1000	0	0.557	0.451	0.256
1F 8V						
Wald	1000	1000	2	0.891	0.832	0.661
WaldVCF	1000	1000	2	0.888	0.832	0.657
WaldDiag,MM3	1000	1000	2	0.782	0.648	0.372
WaldDiag,RS2	1000	1000	2	0.782	0.661	0.394
Pearson,MM3	1000	1000	2	0.651	0.514	0.243
Pearson,RS2	1000	1000	2	0.652	0.520	0.270
1F 15V						
Wald	1000	1000	10	0.723	0.601	0.371
WaldVCF	1000	1000	10	0.712	0.598	0.357
WaldDiag,MM3	1000	1000	10	0.588	0.444	0.197
WaldDiag,RS2	1000	1000	10	0.590	0.453	0.220
Pearson,MM3	1000	1000	10	0.877	0.802	0.618
Pearson,RS2	1000	1000	10	0.878	0.805	0.635
2F 10V						
Wald	1000	1000	9	0.320	0.226	0.091
WaldVCF	1000	1000	9	0.307	0.217	0.084
WaldDiag,MM3	1000	1000	9	0.286	0.185	0.073
WaldDiag,RS2	1000	1000	9	0.288	0.188	0.082
Pearson,MM3	1000	1000	9	0.379	0.279	0.152
Pearson,RS2	1000	1000	9	0.381	0.289	0.170
3F 15V						
Wald	1000	1000	37	0.411	0.315	0.146
WaldVCF	1000	1000	37	0.402	0.295	0.138
WaldDiag,MM3	1000	1000	37	0.390	0.260	0.129
WaldDiag,RS2	1000	1000	37	0.391	0.267	0.136
Pearson,MM3	1000	1000	37	0.493	0.398	0.225
Pearson,RS2	1000	1000	37	0.498	0.405	0.244

Power ($n = 2000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.817	0.729	0.535
WaldVCF	1000	1000	0	0.817	0.729	0.534
WaldDiag,MM3	1000	1000	0	0.703	0.558	0.294
WaldDiag,RS2	1000	1000	0	0.703	0.561	0.311
Pearson,MM3	1000	1000	0	0.846	0.747	0.561
Pearson,RS2	1000	1000	0	0.846	0.751	0.585
1F 8V						
Wald	1000	1000	0	0.998	0.993	0.976
WaldVCF	1000	1000	0	0.997	0.992	0.976
WaldDiag,MM3	1000	1000	0	0.984	0.968	0.896
WaldDiag,RS2	1000	1000	0	0.984	0.968	0.911
Pearson,MM3	1000	1000	0	0.950	0.889	0.689
Pearson,RS2	1000	1000	0	0.950	0.896	0.709
1F 15V						
Wald	1000	1000	12	0.969	0.950	0.846
WaldVCF	1000	1000	12	0.969	0.948	0.843
WaldDiag,MM3	1000	1000	12	0.932	0.873	0.711
WaldDiag,RS2	1000	1000	12	0.932	0.877	0.728
Pearson,MM3	1000	1000	12	0.993	0.989	0.966
Pearson,RS2	1000	1000	12	0.993	0.991	0.967
2F 10V						
Wald	1000	1000	9	0.517	0.423	0.262
WaldVCF	1000	1000	9	0.503	0.410	0.253
WaldDiag,MM3	1000	1000	9	0.528	0.425	0.244
WaldDiag,RS2	1000	1000	9	0.531	0.434	0.262
Pearson,MM3	1000	1000	9	0.583	0.494	0.340
Pearson,RS2	1000	1000	9	0.584	0.499	0.364
3F 15V						
Wald	1000	1000	37	0.656	0.550	0.367
WaldVCF	1000	1000	37	0.641	0.535	0.353
WaldDiag,MM3	1000	1000	37	0.670	0.574	0.394
WaldDiag,RS2	1000	1000	37	0.673	0.583	0.413
Pearson,MM3	1000	1000	37	0.761	0.656	0.482
Pearson,RS2	1000	1000	37	0.763	0.660	0.509

Power ($n = 3000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.919	0.875	0.724
WaldVCF	1000	1000	0	0.919	0.875	0.724
WaldDiag,MM3	1000	1000	0	0.842	0.752	0.531
WaldDiag,RS2	1000	1000	0	0.842	0.757	0.548
Pearson,MM3	1000	1000	0	0.918	0.889	0.748
Pearson,RS2	1000	1000	0	0.918	0.889	0.763
1F 8V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	0.999	0.993
WaldDiag,RS2	1000	1000	1	1.000	0.999	0.993
Pearson,MM3	1000	1000	1	0.993	0.987	0.929
Pearson,RS2	1000	1000	1	0.994	0.989	0.939
1F 15V						
Wald	1000	1000	7	0.997	0.993	0.981
WaldVCF	1000	1000	7	0.996	0.993	0.981
WaldDiag,MM3	1000	1000	7	0.994	0.982	0.936
WaldDiag,RS2	1000	1000	7	0.994	0.982	0.943
Pearson,MM3	1000	1000	7	1.000	1.000	0.999
Pearson,RS2	1000	1000	7	1.000	1.000	0.999
2F 10V						
Wald	1000	1000	8	0.660	0.575	0.395
WaldVCF	1000	1000	8	0.650	0.563	0.379
WaldDiag,MM3	1000	1000	8	0.681	0.576	0.410
WaldDiag,RS2	1000	1000	8	0.685	0.580	0.435
Pearson,MM3	1000	1000	8	0.726	0.653	0.477
Pearson,RS2	1000	1000	8	0.726	0.660	0.506
3F 15V						
Wald	1000	1000	41	0.792	0.721	0.571
WaldVCF	1000	1000	41	0.781	0.700	0.551
WaldDiag,MM3	1000	1000	41	0.823	0.760	0.598
WaldDiag,RS2	1000	1000	41	0.824	0.767	0.620
Pearson,MM3	1000	1000	41	0.860	0.805	0.681
Pearson,RS2	1000	1000	41	0.861	0.810	0.700

Power ($n = 5000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.994	0.985	0.937
WaldVCF	1000	1000	1	0.994	0.985	0.937
WaldDiag,MM3	1000	1000	1	0.983	0.954	0.854
WaldDiag,RS2	1000	1000	1	0.982	0.955	0.862
Pearson,MM3	1000	1000	1	0.996	0.984	0.940
Pearson,RS2	1000	1000	1	0.996	0.985	0.944
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	0.998	0.996
Pearson,RS2	1000	1000	2	1.000	0.999	0.996
1F 15V						
Wald	1000	1000	18	1.000	1.000	1.000
WaldVCF	1000	1000	18	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	18	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	18	1.000	1.000	1.000
Pearson,MM3	1000	1000	18	1.000	1.000	1.000
Pearson,RS2	1000	1000	18	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	13	0.824	0.762	0.616
WaldVCF	1000	1000	13	0.815	0.748	0.603
WaldDiag,MM3	1000	1000	13	0.842	0.783	0.627
WaldDiag,RS2	1000	1000	13	0.842	0.788	0.645
Pearson,MM3	1000	1000	13	0.864	0.815	0.687
Pearson,RS2	1000	1000	13	0.864	0.821	0.710
3F 15V						
Wald	1000	1000	60	0.943	0.908	0.809
WaldVCF	1000	1000	60	0.938	0.902	0.800
WaldDiag,MM3	1000	1000	60	0.952	0.927	0.853
WaldDiag,RS2	1000	1000	60	0.954	0.930	0.862
Pearson,MM3	1000	1000	60	0.964	0.933	0.872
Pearson,RS2	1000	1000	60	0.964	0.937	0.880

Power ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	1.000	1.000	0.998
WaldVCF	1000	1000	0	1.000	1.000	0.998
WaldDiag,MM3	1000	1000	0	0.999	0.998	0.992
WaldDiag,RS2	1000	1000	0	0.999	0.998	0.993
Pearson,MM3	1000	1000	0	1.000	1.000	0.999
Pearson,RS2	1000	1000	0	1.000	1.000	0.999
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,RS2	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	22	1.000	1.000	1.000
WaldVCF	1000	1000	22	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	22	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	22	1.000	1.000	1.000
Pearson,MM3	1000	1000	22	1.000	1.000	1.000
Pearson,RS2	1000	1000	22	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	13	0.937	0.911	0.850
WaldVCF	1000	1000	13	0.934	0.906	0.842
WaldDiag,MM3	1000	1000	13	0.941	0.919	0.861
WaldDiag,RS2	1000	1000	13	0.941	0.922	0.869
Pearson,MM3	1000	1000	13	0.948	0.926	0.872
Pearson,RS2	1000	1000	13	0.948	0.930	0.878
3F 15V						
Wald	1000	1000	76	0.988	0.981	0.961
WaldVCF	1000	1000	76	0.986	0.980	0.954
WaldDiag,MM3	1000	1000	76	0.992	0.989	0.969
WaldDiag,RS2	1000	1000	76	0.992	0.989	0.975
Pearson,MM3	1000	1000	76	0.997	0.990	0.970
Pearson,RS2	1000	1000	76	0.997	0.991	0.973

Stratified sampling

Type I errors ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.178	0.108	0.032
WaldVCF	1000	1000	1	0.148	0.075	0.015
WaldDiag,MM3	1000	1000	1	0.065	0.025	0.002
WaldDiag,RS2	1000	1000	1	0.061	0.025	0.002
Pearson,MM3	1000	1000	1	0.118	0.060	0.010
Pearson,RS2	1000	1000	1	0.117	0.059	0.011
1F 8V						
Wald	1000	1000	5	0.353	0.241	0.105
WaldVCF	1000	1000	5	0.178	0.107	0.031
WaldDiag,MM3	1000	1000	5	0.087	0.043	0.007
WaldDiag,RS2	1000	1000	5	0.087	0.043	0.009
Pearson,MM3	1000	1000	5	0.177	0.107	0.023
Pearson,RS2	1000	1000	5	0.175	0.110	0.029
1F 15V						
Wald	1000	1000	13	0.913	0.838	0.636
WaldVCF	1000	1000	13	0.351	0.189	0.057
WaldDiag,MM3	1000	1000	13	0.114	0.049	0.004
WaldDiag,RS2	1000	1000	13	0.116	0.055	0.005
Pearson,MM3	1000	1000	13	0.254	0.152	0.046
Pearson,RS2	1000	1000	13	0.254	0.159	0.050
2F 10V						
Wald	1000	1000	14	0.436	0.315	0.146
WaldVCF	1000	1000	14	0.235	0.140	0.036
WaldDiag,MM3	1000	1000	14	0.067	0.026	0.004
WaldDiag,RS2	1000	1000	14	0.067	0.028	0.005
Pearson,MM3	1000	1000	14	0.183	0.104	0.024
Pearson,RS2	1000	1000	14	0.183	0.108	0.032
3F 15V						
Wald	1000	1000	40	0.704	0.572	0.328
WaldVCF	1000	1000	40	0.309	0.165	0.040
WaldDiag,MM3	1000	1000	40	0.079	0.032	0.003
WaldDiag,RS2	1000	1000	40	0.079	0.034	0.005
Pearson,MM3	1000	1000	40	0.188	0.108	0.021
Pearson,RS2	1000	1000	40	0.189	0.113	0.023

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.133	0.080	0.020
WaldVCF	1000	1000	1	0.118	0.064	0.011
WaldDiag,MM3	1000	1000	1	0.093	0.038	0.003
WaldDiag,RS2	1000	1000	1	0.084	0.038	0.003
Pearson,MM3	1000	1000	1	0.123	0.060	0.011
Pearson,RS2	1000	1000	1	0.116	0.059	0.011
1F 8V						
Wald	1000	1000	2	0.256	0.157	0.048
WaldVCF	1000	1000	2	0.185	0.100	0.020
WaldDiag,MM3	1000	1000	2	0.107	0.045	0.007
WaldDiag,RS2	1000	1000	2	0.106	0.045	0.008
Pearson,MM3	1000	1000	2	0.185	0.097	0.032
Pearson,RS2	1000	1000	2	0.185	0.099	0.035
1F 15V						
Wald	1000	1000	17	0.617	0.500	0.270
WaldVCF	1000	1000	17	0.324	0.212	0.065
WaldDiag,MM3	1000	1000	17	0.173	0.084	0.019
WaldDiag,RS2	1000	1000	17	0.173	0.091	0.020
Pearson,MM3	1000	1000	17	0.296	0.180	0.040
Pearson,RS2	1000	1000	17	0.300	0.182	0.047
2F 10V						
Wald	1000	1000	8	0.272	0.167	0.063
WaldVCF	1000	1000	8	0.188	0.110	0.032
WaldDiag,MM3	1000	1000	8	0.093	0.054	0.011
WaldDiag,RS2	1000	1000	8	0.094	0.054	0.013
Pearson,MM3	1000	1000	8	0.164	0.091	0.024
Pearson,RS2	1000	1000	8	0.164	0.096	0.028
3F 15V						
Wald	1000	1000	38	0.524	0.382	0.178
WaldVCF	1000	1000	38	0.316	0.201	0.065
WaldDiag,MM3	1000	1000	38	0.136	0.074	0.014
WaldDiag,RS2	1000	1000	38	0.138	0.076	0.017
Pearson,MM3	1000	1000	38	0.236	0.119	0.046
Pearson,RS2	1000	1000	38	0.238	0.123	0.049

Type I errors ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.146	0.079	0.021
WaldVCF	1000	1000	1	0.140	0.074	0.018
WaldDiag,MM3	1000	1000	1	0.108	0.052	0.012
WaldDiag,RS2	1000	1000	1	0.104	0.046	0.012
Pearson,MM3	1000	1000	1	0.129	0.075	0.018
Pearson,RS2	1000	1000	1	0.127	0.074	0.018
1F 8V						
Wald	1000	1000	0	0.215	0.118	0.042
WaldVCF	1000	1000	0	0.179	0.089	0.027
WaldDiag,MM3	1000	1000	0	0.130	0.070	0.015
WaldDiag,RS2	1000	1000	0	0.130	0.073	0.015
Pearson,MM3	1000	1000	0	0.197	0.130	0.037
Pearson,RS2	1000	1000	0	0.196	0.130	0.039
1F 15V						
Wald	1000	1000	20	0.392	0.266	0.088
WaldVCF	1000	1000	20	0.263	0.154	0.033
WaldDiag,MM3	1000	1000	20	0.163	0.064	0.013
WaldDiag,RS2	1000	1000	20	0.164	0.072	0.015
Pearson,MM3	1000	1000	20	0.273	0.175	0.054
Pearson,RS2	1000	1000	20	0.273	0.175	0.063
2F 10V						
Wald	1000	1000	11	0.268	0.160	0.061
WaldVCF	1000	1000	11	0.216	0.122	0.049
WaldDiag,MM3	1000	1000	11	0.153	0.078	0.018
WaldDiag,RS2	1000	1000	11	0.153	0.080	0.024
Pearson,MM3	1000	1000	11	0.191	0.115	0.037
Pearson,RS2	1000	1000	11	0.191	0.123	0.042
3F 15V						
Wald	1000	1000	44	0.411	0.297	0.099
WaldVCF	1000	1000	44	0.330	0.198	0.057
WaldDiag,MM3	1000	1000	44	0.202	0.102	0.020
WaldDiag,RS2	1000	1000	44	0.202	0.109	0.025
Pearson,MM3	1000	1000	44	0.250	0.152	0.049
Pearson,RS2	1000	1000	44	0.253	0.160	0.053

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.147	0.083	0.025
WaldVCF	1000	1000	1	0.144	0.076	0.022
WaldDiag,MM3	1000	1000	1	0.113	0.063	0.016
WaldDiag,RS2	1000	1000	1	0.108	0.060	0.016
Pearson,MM3	1000	1000	1	0.132	0.075	0.017
Pearson,RS2	1000	1000	1	0.125	0.074	0.017
1F 8V						
Wald	1000	1000	4	0.183	0.109	0.033
WaldVCF	1000	1000	4	0.168	0.092	0.030
WaldDiag,MM3	1000	1000	4	0.127	0.059	0.012
WaldDiag,RS2	1000	1000	4	0.127	0.062	0.013
Pearson,MM3	1000	1000	4	0.180	0.106	0.035
Pearson,RS2	1000	1000	4	0.180	0.109	0.042
1F 15V						
Wald	1000	1000	23	0.353	0.213	0.083
WaldVCF	1000	1000	23	0.258	0.153	0.047
WaldDiag,MM3	1000	1000	23	0.187	0.102	0.026
WaldDiag,RS2	1000	1000	23	0.188	0.102	0.027
Pearson,MM3	1000	1000	23	0.286	0.182	0.050
Pearson,RS2	1000	1000	23	0.286	0.184	0.057
2F 10V						
Wald	1000	1000	15	0.234	0.131	0.047
WaldVCF	1000	1000	15	0.204	0.109	0.037
WaldDiag,MM3	1000	1000	15	0.136	0.076	0.014
WaldDiag,RS2	1000	1000	15	0.136	0.077	0.017
Pearson,MM3	1000	1000	15	0.193	0.101	0.024
Pearson,RS2	1000	1000	15	0.193	0.105	0.028
3F 15V						
Wald	1000	1000	53	0.381	0.275	0.087
WaldVCF	1000	1000	53	0.322	0.200	0.054
WaldDiag,MM3	1000	1000	53	0.198	0.109	0.034
WaldDiag,RS2	1000	1000	53	0.200	0.111	0.036
Pearson,MM3	1000	1000	53	0.275	0.175	0.054
Pearson,RS2	1000	1000	53	0.275	0.179	0.058

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.144	0.078	0.014
WaldVCF	1000	1000	1	0.141	0.075	0.014
WaldDiag,MM3	1000	1000	1	0.124	0.066	0.013
WaldDiag,RS2	1000	1000	1	0.116	0.065	0.013
Pearson,MM3	1000	1000	1	0.149	0.074	0.014
Pearson,RS2	1000	1000	1	0.142	0.071	0.014
1F 8V						
Wald	1000	1000	6	0.177	0.099	0.030
WaldVCF	1000	1000	6	0.165	0.089	0.026
WaldDiag,MM3	1000	1000	6	0.127	0.064	0.013
WaldDiag,RS2	1000	1000	6	0.127	0.065	0.014
Pearson,MM3	1000	1000	6	0.184	0.119	0.034
Pearson,RS2	1000	1000	6	0.183	0.121	0.035
1F 15V						
Wald	1000	1000	26	0.329	0.218	0.078
WaldVCF	1000	1000	26	0.280	0.175	0.056
WaldDiag,MM3	1000	1000	26	0.207	0.110	0.036
WaldDiag,RS2	1000	1000	26	0.208	0.115	0.039
Pearson,MM3	1000	1000	26	0.306	0.210	0.067
Pearson,RS2	1000	1000	26	0.308	0.215	0.071
2F 10V						
Wald	1000	1000	20	0.203	0.120	0.034
WaldVCF	1000	1000	20	0.190	0.103	0.030
WaldDiag,MM3	1000	1000	20	0.145	0.080	0.018
WaldDiag,RS2	1000	1000	20	0.146	0.082	0.020
Pearson,MM3	1000	1000	20	0.195	0.107	0.023
Pearson,RS2	1000	1000	20	0.195	0.113	0.031
3F 15V						
Wald	1000	1000	62	0.365	0.247	0.088
WaldVCF	1000	1000	62	0.325	0.210	0.068
WaldDiag,MM3	1000	1000	62	0.228	0.131	0.046
WaldDiag,RS2	1000	1000	62	0.230	0.138	0.050
Pearson,MM3	1000	1000	62	0.294	0.183	0.052
Pearson,RS2	1000	1000	62	0.297	0.187	0.057

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	4	0.127	0.069	0.014
WaldVCF	1000	1000	4	0.126	0.066	0.013
WaldDiag,MM3	1000	1000	4	0.119	0.061	0.014
WaldDiag,RS2	1000	1000	4	0.114	0.058	0.014
Pearson,MM3	1000	1000	4	0.145	0.073	0.016
Pearson,RS2	1000	1000	4	0.143	0.071	0.016
1F 8V						
Wald	1000	1000	5	0.186	0.102	0.028
WaldVCF	1000	1000	5	0.180	0.095	0.024
WaldDiag,MM3	1000	1000	5	0.159	0.073	0.016
WaldDiag,RS2	1000	1000	5	0.159	0.074	0.018
Pearson,MM3	1000	1000	5	0.189	0.106	0.031
Pearson,RS2	1000	1000	5	0.187	0.108	0.037
1F 15V						
Wald	1000	1000	38	0.273	0.181	0.058
WaldVCF	1000	1000	38	0.248	0.158	0.052
WaldDiag,MM3	1000	1000	38	0.200	0.110	0.029
WaldDiag,RS2	1000	1000	38	0.200	0.113	0.030
Pearson,MM3	1000	1000	38	0.287	0.187	0.056
Pearson,RS2	1000	1000	38	0.289	0.193	0.063
2F 10V						
Wald	1000	1000	24	0.205	0.135	0.037
WaldVCF	1000	1000	24	0.192	0.123	0.030
WaldDiag,MM3	1000	1000	24	0.171	0.089	0.027
WaldDiag,RS2	1000	1000	24	0.171	0.098	0.029
Pearson,MM3	1000	1000	24	0.196	0.105	0.026
Pearson,RS2	1000	1000	24	0.196	0.112	0.033
3F 15V						
Wald	1000	1000	99	0.323	0.214	0.067
WaldVCF	1000	1000	99	0.294	0.191	0.056
WaldDiag,MM3	1000	1000	99	0.228	0.126	0.025
WaldDiag,RS2	1000	1000	99	0.228	0.132	0.035
Pearson,MM3	1000	1000	99	0.251	0.159	0.047
Pearson,RS2	1000	1000	99	0.254	0.164	0.055

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.443	0.319	0.150
WaldVCF	1000	1000	0	0.391	0.270	0.101
WaldDiag,MM3	1000	1000	0	0.200	0.104	0.013
WaldDiag,RS2	1000	1000	0	0.200	0.108	0.018
Pearson,MM3	1000	1000	0	0.391	0.278	0.105
Pearson,RS2	1000	1000	0	0.389	0.281	0.119
1F 8V						
Wald	1000	1000	1	0.840	0.758	0.577
WaldVCF	1000	1000	1	0.596	0.443	0.185
WaldDiag,MM3	1000	1000	1	0.419	0.245	0.077
WaldDiag,RS2	1000	1000	1	0.419	0.262	0.085
Pearson,MM3	1000	1000	1	0.431	0.266	0.085
Pearson,RS2	1000	1000	1	0.432	0.276	0.098
1F 15V						
Wald	1000	1000	20	0.997	0.996	0.975
WaldVCF	1000	1000	20	0.686	0.518	0.220
WaldDiag,MM3	1000	1000	20	0.508	0.321	0.117
WaldDiag,RS2	1000	1000	20	0.514	0.333	0.127
Pearson,MM3	1000	1000	20	0.795	0.683	0.435
Pearson,RS2	1000	1000	20	0.795	0.694	0.459
2F 10V						
Wald	1000	1000	9	0.532	0.419	0.230
WaldVCF	1000	1000	9	0.286	0.179	0.051
WaldDiag,MM3	1000	1000	9	0.101	0.047	0.011
WaldDiag,RS2	1000	1000	9	0.104	0.051	0.016
Pearson,MM3	1000	1000	9	0.199	0.115	0.023
Pearson,RS2	1000	1000	9	0.200	0.120	0.033
3F 15V						
Wald	1000	999	34	0.918	0.850	0.655
WaldVCF	1000	999	34	0.595	0.440	0.175
WaldDiag,MM3	1000	999	34	0.489	0.330	0.082
WaldDiag,RS2	1000	999	34	0.498	0.342	0.098
Pearson,MM3	1000	999	34	0.711	0.591	0.308
Pearson,RS2	1000	999	34	0.712	0.608	0.348

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.560	0.449	0.227
WaldVCF	1000	1000	0	0.539	0.415	0.203
WaldDiag,MM3	1000	1000	0	0.379	0.251	0.069
WaldDiag,RS2	1000	1000	0	0.377	0.254	0.080
Pearson,MM3	1000	1000	0	0.585	0.475	0.247
Pearson,RS2	1000	1000	0	0.584	0.480	0.258
1F 8V						
Wald	1000	1000	0	0.935	0.896	0.782
WaldVCF	1000	1000	0	0.878	0.807	0.586
WaldDiag,MM3	1000	1000	0	0.761	0.604	0.308
WaldDiag,RS2	1000	1000	0	0.765	0.613	0.339
Pearson,MM3	1000	1000	0	0.714	0.543	0.253
Pearson,RS2	1000	1000	0	0.716	0.553	0.268
1F 15V						
Wald	1000	1000	10	0.981	0.969	0.891
WaldVCF	1000	1000	10	0.876	0.797	0.548
WaldDiag,MM3	1000	1000	10	0.817	0.689	0.397
WaldDiag,RS2	1000	1000	10	0.819	0.698	0.420
Pearson,MM3	1000	1000	10	0.981	0.960	0.854
Pearson,RS2	1000	1000	10	0.981	0.961	0.866
2F 10V						
Wald	1000	1000	4	0.420	0.305	0.139
WaldVCF	1000	1000	4	0.309	0.218	0.068
WaldDiag,MM3	1000	1000	4	0.205	0.105	0.031
WaldDiag,RS2	1000	1000	4	0.211	0.106	0.035
Pearson,MM3	1000	1000	4	0.281	0.200	0.059
Pearson,RS2	1000	1000	4	0.282	0.209	0.073
3F 15V						
Wald	1000	1000	23	0.927	0.875	0.698
WaldVCF	1000	1000	23	0.826	0.719	0.464
WaldDiag,MM3	1000	1000	23	0.852	0.766	0.525
WaldDiag,RS2	1000	1000	23	0.852	0.773	0.557
Pearson,MM3	1000	1000	23	0.950	0.899	0.788
Pearson,RS2	1000	1000	23	0.951	0.907	0.803

Power ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.822	0.746	0.540
WaldVCF	1000	1000	1	0.814	0.741	0.526
WaldDiag,MM3	1000	1000	1	0.720	0.589	0.315
WaldDiag,RS2	1000	1000	1	0.717	0.594	0.338
Pearson,MM3	1000	1000	1	0.862	0.788	0.609
Pearson,RS2	1000	1000	1	0.862	0.791	0.622
1F 8V						
Wald	1000	1000	0	0.997	0.995	0.986
WaldVCF	1000	1000	0	0.996	0.992	0.976
WaldDiag,MM3	1000	1000	0	0.986	0.966	0.868
WaldDiag,RS2	1000	1000	0	0.986	0.971	0.881
Pearson,MM3	1000	1000	0	0.973	0.921	0.736
Pearson,RS2	1000	1000	0	0.973	0.925	0.763
1F 15V						
Wald	1000	1000	9	0.999	0.996	0.982
WaldVCF	1000	1000	9	0.996	0.990	0.936
WaldDiag,MM3	1000	1000	9	0.994	0.978	0.901
WaldDiag,RS2	1000	1000	9	0.994	0.979	0.910
Pearson,MM3	1000	1000	9	1.000	1.000	1.000
Pearson,RS2	1000	1000	9	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	9	0.433	0.281	0.131
WaldVCF	1000	1000	9	0.358	0.230	0.100
WaldDiag,MM3	1000	1000	9	0.313	0.192	0.058
WaldDiag,RS2	1000	1000	9	0.314	0.198	0.073
Pearson,MM3	1000	1000	9	0.388	0.270	0.106
Pearson,RS2	1000	1000	9	0.391	0.282	0.118
3F 15V						
Wald	1000	1000	22	0.998	0.985	0.932
WaldVCF	1000	1000	22	0.991	0.971	0.888
WaldDiag,MM3	1000	1000	22	1.000	0.997	0.965
WaldDiag,RS2	1000	1000	22	1.000	0.997	0.968
Pearson,MM3	1000	1000	22	1.000	0.999	0.996
Pearson,RS2	1000	1000	22	1.000	0.999	0.996

Power ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.948	0.906	0.766
WaldVCF	1000	1000	2	0.948	0.903	0.760
WaldDiag,MM3	1000	1000	2	0.889	0.806	0.553
WaldDiag,RS2	1000	1000	2	0.888	0.811	0.572
Pearson,MM3	1000	1000	2	0.960	0.920	0.808
Pearson,RS2	1000	1000	2	0.959	0.922	0.816
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	0.999	0.995
WaldDiag,RS2	1000	1000	2	1.000	0.999	0.995
Pearson,MM3	1000	1000	2	1.000	0.998	0.968
Pearson,RS2	1000	1000	2	1.000	0.999	0.973
1F 15V						
Wald	1000	1000	18	1.000	1.000	0.998
WaldVCF	1000	1000	18	1.000	1.000	0.997
WaldDiag,MM3	1000	1000	18	1.000	0.997	0.992
WaldDiag,RS2	1000	1000	18	1.000	0.998	0.994
Pearson,MM3	1000	1000	18	1.000	1.000	1.000
Pearson,RS2	1000	1000	18	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	8	0.478	0.365	0.162
WaldVCF	1000	1000	8	0.440	0.322	0.127
WaldDiag,MM3	1000	1000	8	0.427	0.295	0.111
WaldDiag,RS2	1000	1000	8	0.429	0.306	0.126
Pearson,MM3	1000	1000	8	0.510	0.361	0.169
Pearson,RS2	1000	1000	8	0.513	0.372	0.191
3F 15V						
Wald	1000	1000	34	1.000	0.999	0.995
WaldVCF	1000	1000	34	0.999	0.998	0.993
WaldDiag,MM3	1000	1000	34	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	34	1.000	1.000	1.000
Pearson,MM3	1000	1000	34	1.000	1.000	1.000
Pearson,RS2	1000	1000	34	1.000	1.000	1.000

Power ($n = 5000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.996	0.986	0.969
WaldVCF	1000	1000	1	0.996	0.986	0.967
WaldDiag,MM3	1000	1000	1	0.984	0.971	0.883
WaldDiag,RS2	1000	1000	1	0.984	0.971	0.896
Pearson,MM3	1000	1000	1	0.998	0.992	0.971
Pearson,RS2	1000	1000	1	0.998	0.992	0.975
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,RS2	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	19	1.000	1.000	1.000
WaldVCF	1000	1000	19	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	19	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	19	1.000	1.000	1.000
Pearson,MM3	1000	1000	19	1.000	1.000	1.000
Pearson,RS2	1000	1000	19	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	18	0.646	0.529	0.286
WaldVCF	1000	1000	18	0.612	0.479	0.249
WaldDiag,MM3	1000	1000	18	0.614	0.494	0.222
WaldDiag,RS2	1000	1000	18	0.620	0.508	0.246
Pearson,MM3	1000	1000	18	0.681	0.562	0.326
Pearson,RS2	1000	1000	18	0.685	0.571	0.365
3F 15V						
Wald	1000	1000	35	1.000	1.000	1.000
WaldVCF	1000	1000	35	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	35	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	35	1.000	1.000	1.000
Pearson,MM3	1000	1000	35	1.000	1.000	1.000
Pearson,RS2	1000	1000	35	1.000	1.000	1.000

Power ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,RS2	1000	1000	2	1.000	1.000	1.000
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,RS2	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	25	1.000	1.000	1.000
WaldVCF	1000	1000	25	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	25	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	25	1.000	1.000	1.000
Pearson,MM3	1000	1000	25	1.000	1.000	1.000
Pearson,RS2	1000	1000	25	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	16	0.892	0.803	0.579
WaldVCF	1000	1000	16	0.875	0.782	0.538
WaldDiag,MM3	1000	1000	16	0.896	0.808	0.577
WaldDiag,RS2	1000	1000	16	0.896	0.817	0.597
Pearson,MM3	1000	1000	16	0.935	0.888	0.695
Pearson,RS2	1000	1000	16	0.935	0.893	0.727
3F 15V						
Wald	1000	1000	46	1.000	1.000	1.000
WaldVCF	1000	1000	46	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	46	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	46	1.000	1.000	1.000
Pearson,MM3	1000	1000	46	1.000	1.000	1.000
Pearson,RS2	1000	1000	46	1.000	1.000	1.000

Cluster sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	6	0.149	0.081	0.025
WaldVCF	1000	1000	6	0.106	0.051	0.009
WaldDiag,MM3	1000	1000	6	0.036	0.012	0.002
WaldDiag,RS2	1000	1000	6	0.033	0.012	0.002
Pearson,MM3	1000	1000	6	0.084	0.036	0.007
Pearson,RS2	1000	1000	6	0.080	0.034	0.007
1F 8V						
Wald	1000	1000	6	0.332	0.233	0.114
WaldVCF	1000	1000	6	0.124	0.060	0.011
WaldDiag,MM3	1000	1000	6	0.056	0.021	0.002
WaldDiag,RS2	1000	1000	6	0.055	0.024	0.003
Pearson,MM3	1000	1000	6	0.088	0.040	0.007
Pearson,RS2	1000	1000	6	0.087	0.041	0.009
1F 15V						
Wald	1000	1000	79	0.847	0.786	0.610
WaldVCF	1000	1000	79	0.145	0.067	0.011
WaldDiag,MM3	1000	1000	79	0.068	0.027	0.003
WaldDiag,RS2	1000	1000	79	0.069	0.030	0.004
Pearson,MM3	1000	1000	79	0.091	0.046	0.008
Pearson,RS2	1000	1000	79	0.092	0.047	0.009
2F 10V						
Wald	1000	1000	21	0.301	0.202	0.076
WaldVCF	1000	1000	21	0.125	0.069	0.010
WaldDiag,MM3	1000	1000	21	0.037	0.015	0.000
WaldDiag,RS2	1000	1000	21	0.037	0.017	0.001
Pearson,MM3	1000	1000	21	0.074	0.039	0.009
Pearson,RS2	1000	1000	21	0.073	0.042	0.010
3F 15V						
Wald	999	999	78	0.518	0.387	0.162
WaldVCF	999	999	78	0.124	0.060	0.010
WaldDiag,MM3	999	999	78	0.048	0.014	0.000
WaldDiag,RS2	999	999	78	0.048	0.015	0.000
Pearson,MM3	999	999	78	0.086	0.046	0.009
Pearson,RS2	999	999	78	0.086	0.051	0.011

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.139	0.075	0.025
WaldVCF	1000	1000	2	0.122	0.066	0.019
WaldDiag,MM3	1000	1000	2	0.088	0.042	0.006
WaldDiag,RS2	1000	1000	2	0.086	0.042	0.007
Pearson,MM3	1000	1000	2	0.115	0.067	0.013
Pearson,RS2	1000	1000	2	0.110	0.067	0.016
1F 8V						
Wald	1000	1000	3	0.206	0.128	0.038
WaldVCF	1000	1000	3	0.122	0.063	0.012
WaldDiag,MM3	1000	1000	3	0.092	0.038	0.006
WaldDiag,RS2	1000	1000	3	0.092	0.041	0.008
Pearson,MM3	1000	1000	3	0.086	0.049	0.009
Pearson,RS2	1000	1000	3	0.085	0.050	0.011
1F 15V						
Wald	1000	1000	15	0.499	0.373	0.183
WaldVCF	1000	1000	15	0.156	0.080	0.014
WaldDiag,MM3	1000	1000	15	0.086	0.032	0.000
WaldDiag,RS2	1000	1000	15	0.087	0.038	0.003
Pearson,MM3	1000	1000	15	0.093	0.043	0.007
Pearson,RS2	1000	1000	15	0.094	0.044	0.007
2F 10V						
Wald	1000	1000	13	0.213	0.125	0.043
WaldVCF	1000	1000	13	0.144	0.074	0.012
WaldDiag,MM3	1000	1000	13	0.068	0.024	0.004
WaldDiag,RS2	1000	1000	13	0.068	0.025	0.006
Pearson,MM3	1000	1000	13	0.105	0.046	0.012
Pearson,RS2	1000	1000	13	0.105	0.047	0.018
3F 15V						
Wald	1000	1000	44	0.315	0.202	0.063
WaldVCF	1000	1000	44	0.139	0.077	0.013
WaldDiag,MM3	1000	1000	44	0.057	0.025	0.005
WaldDiag,RS2	1000	1000	44	0.057	0.027	0.005
Pearson,MM3	1000	1000	44	0.090	0.043	0.005
Pearson,RS2	1000	1000	44	0.090	0.044	0.008

Type I errors ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.123	0.069	0.020
WaldVCF	1000	1000	2	0.108	0.064	0.017
WaldDiag,MM3	1000	1000	2	0.099	0.052	0.009
WaldDiag,RS2	1000	1000	2	0.098	0.051	0.009
Pearson,MM3	1000	1000	2	0.099	0.047	0.008
Pearson,RS2	1000	1000	2	0.095	0.046	0.008
1F 8V						
Wald	1000	1000	4	0.153	0.086	0.019
WaldVCF	1000	1000	4	0.116	0.060	0.009
WaldDiag,MM3	1000	1000	4	0.102	0.051	0.007
WaldDiag,RS2	1000	1000	4	0.102	0.054	0.008
Pearson,MM3	1000	1000	4	0.096	0.048	0.008
Pearson,RS2	1000	1000	4	0.095	0.048	0.010
1F 15V						
Wald	1000	1000	24	0.253	0.166	0.064
WaldVCF	1000	1000	24	0.134	0.077	0.024
WaldDiag,MM3	1000	1000	24	0.100	0.049	0.008
WaldDiag,RS2	1000	1000	24	0.100	0.052	0.009
Pearson,MM3	1000	1000	24	0.099	0.050	0.011
Pearson,RS2	1000	1000	24	0.100	0.051	0.012
2F 10V						
Wald	1000	1000	21	0.153	0.095	0.023
WaldVCF	1000	1000	21	0.121	0.066	0.017
WaldDiag,MM3	1000	1000	21	0.099	0.045	0.007
WaldDiag,RS2	1000	1000	21	0.099	0.048	0.007
Pearson,MM3	1000	1000	21	0.116	0.059	0.011
Pearson,RS2	1000	1000	21	0.116	0.060	0.016
3F 15V						
Wald	1000	1000	32	0.193	0.115	0.030
WaldVCF	1000	1000	32	0.130	0.057	0.012
WaldDiag,MM3	1000	1000	32	0.085	0.039	0.010
WaldDiag,RS2	1000	1000	32	0.086	0.040	0.012
Pearson,MM3	1000	1000	32	0.100	0.052	0.010
Pearson,RS2	1000	1000	32	0.102	0.056	0.010

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	4	0.108	0.054	0.013
WaldVCF	1000	1000	4	0.102	0.049	0.012
WaldDiag,MM3	1000	1000	4	0.086	0.033	0.008
WaldDiag,RS2	1000	1000	4	0.083	0.032	0.008
Pearson,MM3	1000	1000	4	0.094	0.047	0.007
Pearson,RS2	1000	1000	4	0.086	0.045	0.007
1F 8V						
Wald	1000	1000	7	0.128	0.071	0.013
WaldVCF	1000	1000	7	0.109	0.057	0.006
WaldDiag,MM3	1000	1000	7	0.096	0.048	0.009
WaldDiag,RS2	1000	1000	7	0.096	0.048	0.011
Pearson,MM3	1000	1000	7	0.093	0.033	0.004
Pearson,RS2	1000	1000	7	0.091	0.033	0.005
1F 15V						
Wald	1000	1000	28	0.225	0.145	0.037
WaldVCF	1000	1000	28	0.154	0.076	0.016
WaldDiag,MM3	1000	1000	28	0.132	0.057	0.015
WaldDiag,RS2	1000	1000	28	0.133	0.059	0.016
Pearson,MM3	1000	1000	28	0.105	0.056	0.009
Pearson,RS2	1000	1000	28	0.106	0.057	0.011
2F 10V						
Wald	1000	1000	18	0.149	0.083	0.020
WaldVCF	1000	1000	18	0.129	0.067	0.015
WaldDiag,MM3	1000	1000	18	0.088	0.043	0.011
WaldDiag,RS2	1000	1000	18	0.088	0.045	0.013
Pearson,MM3	1000	1000	18	0.109	0.052	0.010
Pearson,RS2	1000	1000	18	0.109	0.053	0.011
3F 15V						
Wald	1000	1000	47	0.209	0.133	0.035
WaldVCF	1000	1000	47	0.160	0.091	0.024
WaldDiag,MM3	1000	1000	47	0.113	0.068	0.021
WaldDiag,RS2	1000	1000	47	0.113	0.069	0.023
Pearson,MM3	1000	1000	47	0.137	0.068	0.013
Pearson,RS2	1000	1000	47	0.138	0.070	0.020

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.116	0.058	0.015
WaldVCF	1000	1000	1	0.112	0.057	0.014
WaldDiag,MM3	1000	1000	1	0.110	0.051	0.014
WaldDiag,RS2	1000	1000	1	0.105	0.048	0.014
Pearson,MM3	1000	1000	1	0.093	0.053	0.004
Pearson,RS2	1000	1000	1	0.090	0.050	0.004
1F 8V						
Wald	1000	1000	6	0.132	0.056	0.008
WaldVCF	1000	1000	6	0.123	0.054	0.007
WaldDiag,MM3	1000	1000	6	0.106	0.042	0.010
WaldDiag,RS2	1000	1000	6	0.103	0.043	0.011
Pearson,MM3	1000	1000	6	0.091	0.046	0.008
Pearson,RS2	1000	1000	6	0.091	0.046	0.011
1F 15V						
Wald	1000	1000	27	0.152	0.091	0.027
WaldVCF	1000	1000	27	0.119	0.070	0.017
WaldDiag,MM3	1000	1000	27	0.110	0.058	0.011
WaldDiag,RS2	1000	1000	27	0.110	0.060	0.011
Pearson,MM3	1000	1000	27	0.082	0.047	0.009
Pearson,RS2	1000	1000	27	0.082	0.049	0.012
2F 10V						
Wald	1000	1000	26	0.119	0.071	0.015
WaldVCF	1000	1000	26	0.111	0.060	0.011
WaldDiag,MM3	1000	1000	26	0.097	0.052	0.011
WaldDiag,RS2	1000	1000	26	0.097	0.052	0.012
Pearson,MM3	1000	1000	26	0.102	0.049	0.013
Pearson,RS2	1000	1000	26	0.102	0.054	0.015
3F 15V						
Wald	1000	1000	79	0.133	0.078	0.020
WaldVCF	1000	1000	79	0.108	0.064	0.016
WaldDiag,MM3	1000	1000	79	0.089	0.053	0.015
WaldDiag,RS2	1000	1000	79	0.089	0.054	0.016
Pearson,MM3	1000	1000	79	0.091	0.052	0.011
Pearson,RS2	1000	1000	79	0.091	0.054	0.013

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	3	0.112	0.049	0.009
WaldVCF	1000	1000	3	0.112	0.046	0.008
WaldDiag,MM3	1000	1000	3	0.110	0.051	0.008
WaldDiag,RS2	1000	1000	3	0.100	0.050	0.008
Pearson,MM3	1000	1000	3	0.110	0.042	0.007
Pearson,RS2	1000	1000	3	0.104	0.041	0.007
1F 8V						
Wald	1000	1000	6	0.113	0.066	0.011
WaldVCF	1000	1000	6	0.108	0.062	0.011
WaldDiag,MM3	1000	1000	6	0.111	0.047	0.012
WaldDiag,RS2	1000	1000	6	0.111	0.051	0.012
Pearson,MM3	1000	1000	6	0.116	0.054	0.014
Pearson,RS2	1000	1000	6	0.115	0.056	0.018
1F 15V						
Wald	1000	1000	36	0.136	0.073	0.011
WaldVCF	1000	1000	36	0.106	0.062	0.010
WaldDiag,MM3	1000	1000	36	0.122	0.064	0.015
WaldDiag,RS2	1000	1000	36	0.122	0.065	0.016
Pearson,MM3	1000	1000	36	0.078	0.044	0.008
Pearson,RS2	1000	1000	36	0.078	0.046	0.011
2F 10V						
Wald	1000	1000	24	0.122	0.060	0.011
WaldVCF	1000	1000	24	0.115	0.049	0.010
WaldDiag,MM3	1000	1000	24	0.104	0.042	0.009
WaldDiag,RS2	1000	1000	24	0.104	0.045	0.009
Pearson,MM3	1000	1000	24	0.116	0.060	0.010
Pearson,RS2	1000	1000	24	0.116	0.064	0.011
3F 15V						
Wald	1000	1000	76	0.181	0.092	0.028
WaldVCF	1000	1000	76	0.152	0.074	0.025
WaldDiag,MM3	1000	1000	76	0.137	0.068	0.013
WaldDiag,RS2	1000	1000	76	0.137	0.073	0.016
Pearson,MM3	1000	1000	76	0.135	0.081	0.016
Pearson,RS2	1000	1000	76	0.135	0.083	0.018

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.335	0.228	0.100
WaldVCF	1000	1000	1	0.291	0.190	0.064
WaldDiag,MM3	1000	1000	1	0.133	0.055	0.013
WaldDiag,RS2	1000	1000	1	0.133	0.057	0.015
Pearson,MM3	1000	1000	1	0.287	0.194	0.074
Pearson,RS2	1000	1000	1	0.286	0.198	0.078
1F 8V						
Wald	1000	1000	5	0.777	0.671	0.470
WaldVCF	1000	1000	5	0.460	0.321	0.131
WaldDiag,MM3	1000	1000	5	0.284	0.171	0.040
WaldDiag,RS2	1000	1000	5	0.284	0.185	0.047
Pearson,MM3	1000	1000	5	0.282	0.174	0.053
Pearson,RS2	1000	1000	5	0.282	0.182	0.062
1F 15V						
Wald	1000	1000	62	0.980	0.954	0.892
WaldVCF	1000	1000	62	0.373	0.244	0.067
WaldDiag,MM3	1000	1000	62	0.302	0.170	0.048
WaldDiag,RS2	1000	1000	62	0.304	0.180	0.056
Pearson,MM3	1000	1000	62	0.650	0.536	0.287
Pearson,RS2	1000	1000	62	0.651	0.543	0.301
2F 10V						
Wald	1000	999	13	0.416	0.300	0.123
WaldVCF	1000	999	13	0.164	0.087	0.018
WaldDiag,MM3	1000	999	13	0.067	0.024	0.004
WaldDiag,RS2	1000	999	13	0.067	0.024	0.006
Pearson,MM3	1000	999	13	0.127	0.064	0.010
Pearson,RS2	1000	999	13	0.132	0.070	0.017
3F 15V						
Wald	999	999	76	0.833	0.718	0.439
WaldVCF	999	999	76	0.373	0.225	0.057
WaldDiag,MM3	999	999	76	0.353	0.194	0.045
WaldDiag,RS2	999	999	76	0.354	0.204	0.056
Pearson,MM3	999	999	76	0.585	0.452	0.214
Pearson,RS2	999	999	76	0.591	0.465	0.252

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.566	0.447	0.221
WaldVCF	1000	1000	0	0.548	0.425	0.199
WaldDiag,MM3	1000	1000	0	0.374	0.241	0.065
WaldDiag,RS2	1000	1000	0	0.374	0.245	0.075
Pearson,MM3	1000	1000	0	0.605	0.473	0.256
Pearson,RS2	1000	1000	0	0.605	0.480	0.268
1F 8V						
Wald	1000	1000	2	0.930	0.878	0.732
WaldVCF	1000	1000	2	0.854	0.756	0.509
WaldDiag,MM3	1000	1000	2	0.704	0.548	0.274
WaldDiag,RS2	1000	1000	2	0.705	0.562	0.312
Pearson,MM3	1000	1000	2	0.622	0.466	0.204
Pearson,RS2	1000	1000	2	0.623	0.480	0.229
1F 15V						
Wald	1000	1000	9	0.949	0.901	0.744
WaldVCF	1000	1000	9	0.696	0.569	0.285
WaldDiag,MM3	1000	1000	9	0.677	0.509	0.255
WaldDiag,RS2	1000	1000	9	0.679	0.517	0.274
Pearson,MM3	1000	1000	9	0.953	0.908	0.787
Pearson,RS2	1000	1000	9	0.954	0.913	0.805
2F 10V						
Wald	1000	1000	11	0.338	0.222	0.073
WaldVCF	1000	1000	11	0.227	0.117	0.038
WaldDiag,MM3	1000	1000	11	0.148	0.081	0.019
WaldDiag,RS2	1000	1000	11	0.150	0.087	0.022
Pearson,MM3	1000	1000	11	0.197	0.106	0.033
Pearson,RS2	1000	1000	11	0.199	0.113	0.040
3F 15V						
Wald	1000	1000	46	0.879	0.807	0.568
WaldVCF	1000	1000	46	0.726	0.591	0.312
WaldDiag,MM3	1000	1000	46	0.841	0.725	0.438
WaldDiag,RS2	1000	1000	46	0.843	0.745	0.473
Pearson,MM3	1000	1000	46	0.953	0.909	0.752
Pearson,RS2	1000	1000	46	0.955	0.914	0.776

Power ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.844	0.763	0.532
WaldVCF	1000	1000	2	0.839	0.753	0.507
WaldDiag,MM3	1000	1000	2	0.726	0.559	0.271
WaldDiag,RS2	1000	1000	2	0.724	0.566	0.295
Pearson,MM3	1000	1000	2	0.875	0.805	0.592
Pearson,RS2	1000	1000	2	0.874	0.806	0.605
1F 8V						
Wald	1000	1000	4	0.995	0.993	0.981
WaldVCF	1000	1000	4	0.994	0.991	0.964
WaldDiag,MM3	1000	1000	4	0.982	0.959	0.820
WaldDiag,RS2	1000	1000	4	0.982	0.962	0.836
Pearson,MM3	1000	1000	4	0.947	0.890	0.678
Pearson,RS2	1000	1000	4	0.947	0.896	0.701
1F 15V						
Wald	1000	1000	12	0.993	0.984	0.920
WaldVCF	1000	1000	12	0.978	0.946	0.823
WaldDiag,MM3	1000	1000	12	0.969	0.935	0.806
WaldDiag,RS2	1000	1000	12	0.969	0.937	0.826
Pearson,MM3	1000	1000	12	1.000	0.999	0.992
Pearson,RS2	1000	1000	12	1.000	0.999	0.994
2F 10V						
Wald	1000	1000	16	0.330	0.233	0.093
WaldVCF	1000	1000	16	0.293	0.184	0.062
WaldDiag,MM3	1000	1000	16	0.241	0.143	0.037
WaldDiag,RS2	1000	1000	16	0.243	0.150	0.047
Pearson,MM3	1000	1000	16	0.303	0.200	0.058
Pearson,RS2	1000	1000	16	0.303	0.207	0.071
3F 15V						
Wald	1000	1000	42	0.985	0.967	0.873
WaldVCF	1000	1000	42	0.967	0.933	0.801
WaldDiag,MM3	1000	1000	42	0.996	0.991	0.951
WaldDiag,RS2	1000	1000	42	0.996	0.992	0.961
Pearson,MM3	1000	1000	42	1.000	0.999	0.990
Pearson,RS2	1000	1000	42	1.000	0.999	0.992

Power ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.937	0.900	0.771
WaldVCF	1000	1000	0	0.937	0.898	0.766
WaldDiag,MM3	1000	1000	0	0.886	0.816	0.561
WaldDiag,RS2	1000	1000	0	0.886	0.819	0.582
Pearson,MM3	1000	1000	0	0.956	0.925	0.821
Pearson,RS2	1000	1000	0	0.956	0.927	0.827
1F 8V						
Wald	1000	1000	3	1.000	1.000	1.000
WaldVCF	1000	1000	3	1.000	1.000	0.999
WaldDiag,MM3	1000	1000	3	0.999	0.998	0.985
WaldDiag,RS2	1000	1000	3	0.999	0.998	0.988
Pearson,MM3	1000	1000	3	0.999	0.987	0.928
Pearson,RS2	1000	1000	3	0.999	0.987	0.944
1F 15V						
Wald	1000	1000	13	1.000	1.000	0.998
WaldVCF	1000	1000	13	1.000	1.000	0.993
WaldDiag,MM3	1000	1000	13	1.000	0.999	0.989
WaldDiag,RS2	1000	1000	13	1.000	0.999	0.991
Pearson,MM3	1000	1000	13	1.000	1.000	1.000
Pearson,RS2	1000	1000	13	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	13	0.406	0.272	0.118
WaldVCF	1000	1000	13	0.360	0.230	0.089
WaldDiag,MM3	1000	1000	13	0.344	0.233	0.071
WaldDiag,RS2	1000	1000	13	0.349	0.239	0.081
Pearson,MM3	1000	1000	13	0.436	0.309	0.129
Pearson,RS2	1000	1000	13	0.440	0.321	0.149
3F 15V						
Wald	1000	1000	32	1.000	0.999	0.991
WaldVCF	1000	1000	32	0.999	0.999	0.977
WaldDiag,MM3	1000	1000	32	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	32	1.000	1.000	1.000
Pearson,MM3	1000	1000	32	1.000	1.000	1.000
Pearson,RS2	1000	1000	32	1.000	1.000	1.000

Power ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.996	0.994	0.977
WaldVCF	1000	1000	0	0.996	0.994	0.977
WaldDiag,MM3	1000	1000	0	0.991	0.978	0.904
WaldDiag,RS2	1000	1000	0	0.991	0.978	0.914
Pearson,MM3	1000	1000	0	0.998	0.995	0.980
Pearson,RS2	1000	1000	0	0.998	0.995	0.982
1F 8V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	1	1.000	1.000	1.000
Pearson,MM3	1000	1000	1	1.000	1.000	0.999
Pearson,RS2	1000	1000	1	1.000	1.000	0.999
1F 15V						
Wald	1000	1000	15	1.000	1.000	1.000
WaldVCF	1000	1000	15	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	15	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	15	1.000	1.000	1.000
Pearson,MM3	1000	1000	15	1.000	1.000	1.000
Pearson,RS2	1000	1000	15	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	17	0.508	0.363	0.171
WaldVCF	1000	1000	17	0.464	0.331	0.152
WaldDiag,MM3	1000	1000	17	0.504	0.359	0.147
WaldDiag,RS2	1000	1000	17	0.506	0.374	0.161
Pearson,MM3	1000	1000	17	0.597	0.461	0.231
Pearson,RS2	1000	1000	17	0.597	0.474	0.262
3F 15V						
Wald	1000	1000	48	1.000	1.000	1.000
WaldVCF	1000	1000	48	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	48	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	48	1.000	1.000	1.000
Pearson,MM3	1000	1000	48	1.000	1.000	1.000
Pearson,RS2	1000	1000	48	1.000	1.000	1.000

Power ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	1.000	1.000	0.999
WaldVCF	1000	1000	1	1.000	1.000	0.999
WaldDiag,MM3	1000	1000	1	0.999	0.999	0.999
WaldDiag,RS2	1000	1000	1	0.999	0.999	0.999
Pearson,MM3	1000	1000	1	1.000	1.000	0.999
Pearson,RS2	1000	1000	1	1.000	1.000	1.000
1F 8V						
Wald	1000	1000	4	1.000	1.000	1.000
WaldVCF	1000	1000	4	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	4	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	4	1.000	1.000	1.000
Pearson,MM3	1000	1000	4	1.000	1.000	1.000
Pearson,RS2	1000	1000	4	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	18	1.000	1.000	1.000
WaldVCF	1000	1000	18	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	18	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	18	1.000	1.000	1.000
Pearson,MM3	1000	1000	18	1.000	1.000	1.000
Pearson,RS2	1000	1000	18	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	21	0.819	0.732	0.485
WaldVCF	1000	1000	21	0.802	0.694	0.446
WaldDiag,MM3	1000	1000	21	0.843	0.739	0.490
WaldDiag,RS2	1000	1000	21	0.843	0.752	0.529
Pearson,MM3	1000	1000	21	0.908	0.841	0.666
Pearson,RS2	1000	1000	21	0.908	0.854	0.703
3F 15V						
Wald	1000	1000	50	1.000	1.000	1.000
WaldVCF	1000	1000	50	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	50	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	50	1.000	1.000	1.000
Pearson,MM3	1000	1000	50	1.000	1.000	1.000
Pearson,RS2	1000	1000	50	1.000	1.000	1.000

Strat-clust sampling

Type I errors ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	5	0.159	0.097	0.029
WaldVCF	1000	1000	5	0.122	0.060	0.014
WaldDiag,MM3	1000	1000	5	0.056	0.019	0.000
WaldDiag,RS2	1000	1000	5	0.053	0.019	0.001
Pearson,MM3	1000	1000	5	0.103	0.049	0.008
Pearson,RS2	1000	1000	5	0.097	0.048	0.010
1F 8V						
Wald	1000	1000	1	0.274	0.174	0.063
WaldVCF	1000	1000	1	0.102	0.054	0.011
WaldDiag,MM3	1000	1000	1	0.064	0.014	0.002
WaldDiag,RS2	1000	1000	1	0.064	0.016	0.003
Pearson,MM3	1000	1000	1	0.119	0.059	0.009
Pearson,RS2	1000	1000	1	0.119	0.062	0.013
1F 15V						
Wald	1000	1000	10	0.789	0.711	0.496
WaldVCF	1000	1000	10	0.155	0.060	0.013
WaldDiag,MM3	1000	1000	10	0.051	0.015	0.000
WaldDiag,RS2	1000	1000	10	0.052	0.016	0.000
Pearson,MM3	1000	1000	10	0.116	0.058	0.008
Pearson,RS2	1000	1000	10	0.118	0.061	0.013
2F 10V						
Wald	1000	1000	10	0.305	0.199	0.084
WaldVCF	1000	1000	10	0.136	0.074	0.013
WaldDiag,MM3	1000	1000	10	0.044	0.018	0.001
WaldDiag,RS2	1000	1000	10	0.044	0.019	0.002
Pearson,MM3	1000	1000	10	0.099	0.045	0.005
Pearson,RS2	1000	1000	10	0.099	0.047	0.007
3F 15V						
Wald	1000	1000	35	0.578	0.448	0.186
WaldVCF	1000	1000	35	0.167	0.077	0.009
WaldDiag,MM3	1000	1000	35	0.046	0.013	0.002
WaldDiag,RS2	1000	1000	35	0.046	0.014	0.002
Pearson,MM3	1000	1000	35	0.129	0.060	0.012
Pearson,RS2	1000	1000	35	0.129	0.063	0.012

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.127	0.066	0.014
WaldVCF	1000	1000	0	0.114	0.055	0.011
WaldDiag,MM3	1000	1000	0	0.063	0.026	0.002
WaldDiag,RS2	1000	1000	0	0.060	0.025	0.002
Pearson,MM3	1000	1000	0	0.110	0.056	0.007
Pearson,RS2	1000	1000	0	0.107	0.055	0.008
1F 8V						
Wald	1000	1000	1	0.196	0.128	0.035
WaldVCF	1000	1000	1	0.131	0.068	0.017
WaldDiag,MM3	1000	1000	1	0.087	0.040	0.006
WaldDiag,RS2	1000	1000	1	0.085	0.042	0.007
Pearson,MM3	1000	1000	1	0.117	0.064	0.017
Pearson,RS2	1000	1000	1	0.117	0.068	0.020
1F 15V						
Wald	1000	1000	15	0.427	0.302	0.119
WaldVCF	1000	1000	15	0.154	0.075	0.021
WaldDiag,MM3	1000	1000	15	0.072	0.033	0.003
WaldDiag,RS2	1000	1000	15	0.072	0.036	0.004
Pearson,MM3	1000	1000	15	0.123	0.067	0.020
Pearson,RS2	1000	1000	15	0.123	0.068	0.025
2F 10V						
Wald	1000	1000	11	0.204	0.126	0.034
WaldVCF	1000	1000	11	0.144	0.076	0.014
WaldDiag,MM3	1000	1000	11	0.062	0.026	0.005
WaldDiag,RS2	1000	1000	11	0.062	0.029	0.007
Pearson,MM3	1000	1000	11	0.118	0.057	0.012
Pearson,RS2	1000	1000	11	0.118	0.060	0.014
3F 15V						
Wald	1000	1000	36	0.352	0.249	0.104
WaldVCF	1000	1000	36	0.200	0.126	0.040
WaldDiag,MM3	1000	1000	36	0.106	0.046	0.005
WaldDiag,RS2	1000	1000	36	0.107	0.051	0.006
Pearson,MM3	1000	1000	36	0.146	0.085	0.020
Pearson,RS2	1000	1000	36	0.147	0.087	0.023

Type I errors ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.120	0.068	0.021
WaldVCF	1000	1000	2	0.115	0.059	0.014
WaldDiag,MM3	1000	1000	2	0.088	0.037	0.005
WaldDiag,RS2	1000	1000	2	0.082	0.037	0.005
Pearson,MM3	1000	1000	2	0.114	0.061	0.016
Pearson,RS2	1000	1000	2	0.110	0.059	0.017
1F 8V						
Wald	1000	1000	7	0.141	0.078	0.021
WaldVCF	1000	1000	7	0.108	0.053	0.014
WaldDiag,MM3	1000	1000	7	0.079	0.041	0.008
WaldDiag,RS2	1000	1000	7	0.078	0.042	0.009
Pearson,MM3	1000	1000	7	0.129	0.063	0.018
Pearson,RS2	1000	1000	7	0.128	0.066	0.019
1F 15V						
Wald	1000	1000	22	0.263	0.176	0.055
WaldVCF	1000	1000	22	0.161	0.088	0.021
WaldDiag,MM3	1000	1000	22	0.111	0.054	0.009
WaldDiag,RS2	1000	1000	22	0.111	0.056	0.011
Pearson,MM3	1000	1000	22	0.166	0.094	0.019
Pearson,RS2	1000	1000	22	0.166	0.095	0.021
2F 10V						
Wald	1000	1000	19	0.181	0.104	0.029
WaldVCF	1000	1000	19	0.144	0.085	0.015
WaldDiag,MM3	1000	1000	19	0.103	0.052	0.008
WaldDiag,RS2	1000	1000	19	0.103	0.055	0.009
Pearson,MM3	1000	1000	19	0.138	0.085	0.016
Pearson,RS2	1000	1000	19	0.138	0.086	0.020
3F 15V						
Wald	1000	1000	43	0.251	0.154	0.048
WaldVCF	1000	1000	43	0.174	0.091	0.028
WaldDiag,MM3	1000	1000	43	0.091	0.043	0.012
WaldDiag,RS2	1000	1000	43	0.092	0.045	0.015
Pearson,MM3	1000	1000	43	0.140	0.068	0.012
Pearson,RS2	1000	1000	43	0.142	0.072	0.017

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.124	0.064	0.013
WaldVCF	1000	1000	0	0.120	0.060	0.012
WaldDiag,MM3	1000	1000	0	0.103	0.042	0.010
WaldDiag,RS2	1000	1000	0	0.100	0.039	0.010
Pearson,MM3	1000	1000	0	0.113	0.055	0.014
Pearson,RS2	1000	1000	0	0.108	0.054	0.016
1F 8V						
Wald	1000	1000	5	0.136	0.077	0.015
WaldVCF	1000	1000	5	0.114	0.066	0.012
WaldDiag,MM3	1000	1000	5	0.101	0.047	0.008
WaldDiag,RS2	1000	1000	5	0.100	0.047	0.009
Pearson,MM3	1000	1000	5	0.128	0.072	0.020
Pearson,RS2	1000	1000	5	0.127	0.074	0.022
1F 15V						
Wald	1000	1000	17	0.227	0.128	0.044
WaldVCF	1000	1000	17	0.150	0.083	0.024
WaldDiag,MM3	1000	1000	17	0.119	0.065	0.013
WaldDiag,RS2	1000	1000	17	0.119	0.070	0.015
Pearson,MM3	1000	1000	17	0.180	0.102	0.025
Pearson,RS2	1000	1000	17	0.180	0.108	0.034
2F 10V						
Wald	1000	1000	26	0.172	0.090	0.018
WaldVCF	1000	1000	26	0.152	0.074	0.013
WaldDiag,MM3	1000	1000	26	0.099	0.054	0.008
WaldDiag,RS2	1000	1000	26	0.099	0.056	0.011
Pearson,MM3	1000	1000	26	0.133	0.075	0.016
Pearson,RS2	1000	1000	26	0.133	0.077	0.020
3F 15V						
Wald	1000	1000	59	0.211	0.124	0.034
WaldVCF	1000	1000	59	0.158	0.080	0.023
WaldDiag,MM3	1000	1000	59	0.117	0.058	0.017
WaldDiag,RS2	1000	1000	59	0.118	0.060	0.019
Pearson,MM3	1000	1000	59	0.154	0.081	0.016
Pearson,RS2	1000	1000	59	0.156	0.084	0.022

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.106	0.051	0.014
WaldVCF	1000	1000	2	0.099	0.050	0.012
WaldDiag,MM3	1000	1000	2	0.080	0.040	0.010
WaldDiag,RS2	1000	1000	2	0.076	0.039	0.010
Pearson,MM3	1000	1000	2	0.118	0.050	0.012
Pearson,RS2	1000	1000	2	0.116	0.047	0.012
1F 8V						
Wald	1000	1000	3	0.114	0.065	0.016
WaldVCF	1000	1000	3	0.108	0.053	0.015
WaldDiag,MM3	1000	1000	3	0.102	0.053	0.014
WaldDiag,RS2	1000	1000	3	0.102	0.055	0.016
Pearson,MM3	1000	1000	3	0.119	0.056	0.021
Pearson,RS2	1000	1000	3	0.118	0.059	0.023
1F 15V						
Wald	1000	1000	26	0.191	0.103	0.025
WaldVCF	1000	1000	26	0.155	0.079	0.015
WaldDiag,MM3	1000	1000	26	0.114	0.064	0.013
WaldDiag,RS2	1000	1000	26	0.115	0.065	0.014
Pearson,MM3	1000	1000	26	0.169	0.093	0.020
Pearson,RS2	1000	1000	26	0.170	0.094	0.022
2F 10V						
Wald	1000	1000	11	0.142	0.082	0.027
WaldVCF	1000	1000	11	0.130	0.071	0.023
WaldDiag,MM3	1000	1000	11	0.101	0.048	0.012
WaldDiag,RS2	1000	1000	11	0.101	0.049	0.012
Pearson,MM3	1000	1000	11	0.116	0.063	0.017
Pearson,RS2	1000	1000	11	0.116	0.070	0.018
3F 15V						
Wald	1000	1000	67	0.192	0.110	0.027
WaldVCF	1000	1000	67	0.162	0.091	0.021
WaldDiag,MM3	1000	1000	67	0.121	0.060	0.008
WaldDiag,RS2	1000	1000	67	0.121	0.063	0.008
Pearson,MM3	1000	1000	67	0.153	0.073	0.023
Pearson,RS2	1000	1000	67	0.155	0.077	0.024

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.117	0.063	0.013
WaldVCF	1000	1000	1	0.116	0.063	0.013
WaldDiag,MM3	1000	1000	1	0.102	0.054	0.006
WaldDiag,RS2	1000	1000	1	0.100	0.052	0.006
Pearson,MM3	1000	1000	1	0.116	0.058	0.011
Pearson,RS2	1000	1000	1	0.110	0.055	0.011
1F 8V						
Wald	1000	1000	5	0.125	0.064	0.012
WaldVCF	1000	1000	5	0.119	0.062	0.011
WaldDiag,MM3	1000	1000	5	0.097	0.040	0.011
WaldDiag,RS2	1000	1000	5	0.097	0.042	0.014
Pearson,MM3	1000	1000	5	0.131	0.066	0.015
Pearson,RS2	1000	1000	5	0.130	0.067	0.017
1F 15V						
Wald	1000	1000	37	0.164	0.095	0.028
WaldVCF	1000	1000	37	0.145	0.083	0.023
WaldDiag,MM3	1000	1000	37	0.128	0.061	0.015
WaldDiag,RS2	1000	1000	37	0.128	0.062	0.017
Pearson,MM3	1000	1000	37	0.180	0.120	0.026
Pearson,RS2	1000	1000	37	0.180	0.121	0.032
2F 10V						
Wald	1000	1000	30	0.135	0.074	0.024
WaldVCF	1000	1000	30	0.124	0.068	0.020
WaldDiag,MM3	1000	1000	30	0.121	0.063	0.011
WaldDiag,RS2	1000	1000	30	0.121	0.064	0.012
Pearson,MM3	1000	1000	30	0.115	0.067	0.016
Pearson,RS2	1000	1000	30	0.115	0.069	0.018
3F 15V						
Wald	1000	1000	77	0.191	0.105	0.022
WaldVCF	1000	1000	77	0.166	0.086	0.014
WaldDiag,MM3	1000	1000	77	0.137	0.072	0.010
WaldDiag,RS2	1000	1000	77	0.137	0.074	0.010
Pearson,MM3	1000	1000	77	0.162	0.081	0.021
Pearson,RS2	1000	1000	77	0.162	0.085	0.022

Power ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.365	0.255	0.115
WaldVCF	1000	1000	0	0.319	0.201	0.084
WaldDiag,MM3	1000	1000	0	0.153	0.072	0.013
WaldDiag,RS2	1000	1000	0	0.153	0.075	0.016
Pearson,MM3	1000	1000	0	0.337	0.199	0.076
Pearson,RS2	1000	1000	0	0.333	0.203	0.084
1F 8V						
Wald	1000	1000	2	0.775	0.681	0.481
WaldVCF	1000	1000	2	0.511	0.359	0.124
WaldDiag,MM3	1000	1000	2	0.338	0.192	0.048
WaldDiag,RS2	1000	1000	2	0.338	0.201	0.058
Pearson,MM3	1000	1000	2	0.330	0.203	0.054
Pearson,RS2	1000	1000	2	0.332	0.207	0.069
1F 15V						
Wald	1000	1000	28	0.994	0.980	0.929
WaldVCF	1000	1000	28	0.499	0.323	0.111
WaldDiag,MM3	1000	1000	28	0.369	0.226	0.062
WaldDiag,RS2	1000	1000	28	0.370	0.236	0.072
Pearson,MM3	1000	1000	28	0.741	0.617	0.350
Pearson,RS2	1000	1000	28	0.744	0.627	0.370
2F 10V						
Wald	1000	1000	11	0.431	0.320	0.143
WaldVCF	1000	1000	11	0.202	0.092	0.026
WaldDiag,MM3	1000	1000	11	0.081	0.041	0.008
WaldDiag,RS2	1000	1000	11	0.081	0.043	0.010
Pearson,MM3	1000	1000	11	0.144	0.077	0.024
Pearson,RS2	1000	1000	11	0.146	0.081	0.030
3F 15V						
Wald	1000	1000	46	0.842	0.759	0.499
WaldVCF	1000	1000	46	0.402	0.252	0.063
WaldDiag,MM3	1000	1000	46	0.375	0.215	0.030
WaldDiag,RS2	1000	1000	46	0.378	0.225	0.044
Pearson,MM3	1000	1000	46	0.612	0.461	0.222
Pearson,RS2	1000	1000	46	0.615	0.474	0.253

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.565	0.454	0.246
WaldVCF	1000	1000	0	0.543	0.428	0.206
WaldDiag,MM3	1000	1000	0	0.394	0.263	0.075
WaldDiag,RS2	1000	1000	0	0.390	0.269	0.091
Pearson,MM3	1000	1000	0	0.601	0.471	0.266
Pearson,RS2	1000	1000	0	0.599	0.478	0.284
1F 8V						
Wald	1000	1000	0	0.948	0.902	0.768
WaldVCF	1000	1000	0	0.892	0.811	0.543
WaldDiag,MM3	1000	1000	0	0.744	0.606	0.297
WaldDiag,RS2	1000	1000	0	0.745	0.620	0.328
Pearson,MM3	1000	1000	0	0.667	0.504	0.234
Pearson,RS2	1000	1000	0	0.669	0.515	0.259
1F 15V						
Wald	1000	1000	8	0.963	0.932	0.809
WaldVCF	1000	1000	8	0.800	0.685	0.389
WaldDiag,MM3	1000	1000	8	0.735	0.595	0.303
WaldDiag,RS2	1000	1000	8	0.736	0.609	0.336
Pearson,MM3	1000	1000	8	0.968	0.941	0.831
Pearson,RS2	1000	1000	8	0.968	0.941	0.844
2F 10V						
Wald	1000	1000	9	0.330	0.234	0.090
WaldVCF	1000	1000	9	0.229	0.141	0.037
WaldDiag,MM3	1000	1000	9	0.168	0.082	0.018
WaldDiag,RS2	1000	1000	9	0.169	0.087	0.022
Pearson,MM3	1000	1000	9	0.214	0.128	0.037
Pearson,RS2	1000	1000	9	0.216	0.136	0.044
3F 15V						
Wald	1000	1000	26	0.888	0.796	0.571
WaldVCF	1000	1000	26	0.727	0.598	0.313
WaldDiag,MM3	1000	1000	26	0.836	0.743	0.469
WaldDiag,RS2	1000	1000	26	0.839	0.749	0.495
Pearson,MM3	1000	1000	26	0.946	0.906	0.775
Pearson,RS2	1000	1000	26	0.947	0.910	0.802

Power ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.816	0.729	0.510
WaldVCF	1000	1000	1	0.813	0.722	0.493
WaldDiag,MM3	1000	1000	1	0.697	0.547	0.291
WaldDiag,RS2	1000	1000	1	0.695	0.554	0.307
Pearson,MM3	1000	1000	1	0.858	0.774	0.573
Pearson,RS2	1000	1000	1	0.856	0.775	0.586
1F 8V						
Wald	1000	1000	1	1.000	0.997	0.975
WaldVCF	1000	1000	1	0.999	0.991	0.964
WaldDiag,MM3	1000	1000	1	0.977	0.954	0.847
WaldDiag,RS2	1000	1000	1	0.977	0.955	0.860
Pearson,MM3	1000	1000	1	0.952	0.913	0.695
Pearson,RS2	1000	1000	1	0.952	0.917	0.730
1F 15V						
Wald	1000	1000	15	0.996	0.989	0.961
WaldVCF	1000	1000	15	0.987	0.976	0.891
WaldDiag,MM3	1000	1000	15	0.986	0.964	0.853
WaldDiag,RS2	1000	1000	15	0.986	0.964	0.869
Pearson,MM3	1000	1000	15	1.000	1.000	0.999
Pearson,RS2	1000	1000	15	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	7	0.316	0.228	0.089
WaldVCF	1000	1000	7	0.274	0.179	0.066
WaldDiag,MM3	1000	1000	7	0.231	0.157	0.054
WaldDiag,RS2	1000	1000	7	0.231	0.162	0.064
Pearson,MM3	1000	1000	7	0.308	0.198	0.086
Pearson,RS2	1000	1000	7	0.309	0.204	0.097
3F 15V						
Wald	1000	1000	33	0.986	0.968	0.904
WaldVCF	1000	1000	33	0.970	0.940	0.836
WaldDiag,MM3	1000	1000	33	0.994	0.991	0.947
WaldDiag,RS2	1000	1000	33	0.994	0.992	0.951
Pearson,MM3	1000	1000	33	0.998	0.997	0.990
Pearson,RS2	1000	1000	33	0.998	0.997	0.992

Power ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.955	0.907	0.785
WaldVCF	1000	1000	1	0.954	0.901	0.774
WaldDiag,MM3	1000	1000	1	0.888	0.802	0.545
WaldDiag,RS2	1000	1000	1	0.888	0.810	0.581
Pearson,MM3	1000	1000	1	0.970	0.926	0.821
Pearson,RS2	1000	1000	1	0.970	0.926	0.828
1F 8V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	1.000	0.991
WaldDiag,RS2	1000	1000	1	1.000	1.000	0.992
Pearson,MM3	1000	1000	1	0.999	0.994	0.948
Pearson,RS2	1000	1000	1	0.999	0.995	0.964
1F 15V						
Wald	1000	1000	13	1.000	1.000	0.998
WaldVCF	1000	1000	13	1.000	1.000	0.993
WaldDiag,MM3	1000	1000	13	1.000	0.999	0.993
WaldDiag,RS2	1000	1000	13	1.000	1.000	0.994
Pearson,MM3	1000	1000	13	1.000	1.000	1.000
Pearson,RS2	1000	1000	13	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	15	0.412	0.278	0.116
WaldVCF	1000	1000	15	0.361	0.242	0.085
WaldDiag,MM3	1000	1000	15	0.352	0.225	0.082
WaldDiag,RS2	1000	1000	15	0.353	0.236	0.092
Pearson,MM3	1000	1000	15	0.453	0.311	0.130
Pearson,RS2	1000	1000	15	0.457	0.324	0.156
3F 15V						
Wald	1000	1000	32	1.000	1.000	0.993
WaldVCF	1000	1000	32	1.000	0.999	0.988
WaldDiag,MM3	1000	1000	32	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	32	1.000	1.000	1.000
Pearson,MM3	1000	1000	32	1.000	1.000	1.000
Pearson,RS2	1000	1000	32	1.000	1.000	1.000

Power ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.999	0.993	0.968
WaldVCF	1000	1000	1	0.999	0.993	0.967
WaldDiag,MM3	1000	1000	1	0.990	0.971	0.892
WaldDiag,RS2	1000	1000	1	0.990	0.971	0.900
Pearson,MM3	1000	1000	1	0.999	0.997	0.976
Pearson,RS2	1000	1000	1	0.999	0.997	0.981
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,RS2	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	17	1.000	1.000	1.000
WaldVCF	1000	1000	17	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	17	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	17	1.000	1.000	1.000
Pearson,MM3	1000	1000	17	1.000	1.000	1.000
Pearson,RS2	1000	1000	17	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	8	0.553	0.420	0.222
WaldVCF	1000	1000	8	0.516	0.384	0.193
WaldDiag,MM3	1000	1000	8	0.539	0.392	0.189
WaldDiag,RS2	1000	1000	8	0.543	0.401	0.214
Pearson,MM3	1000	1000	8	0.650	0.520	0.279
Pearson,RS2	1000	1000	8	0.652	0.537	0.325
3F 15V						
Wald	1000	1000	49	1.000	1.000	1.000
WaldVCF	1000	1000	49	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	49	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	49	1.000	1.000	1.000
Pearson,MM3	1000	1000	49	1.000	1.000	1.000
Pearson,RS2	1000	1000	49	1.000	1.000	1.000

Power ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	1	1.000	1.000	1.000
Pearson,MM3	1000	1000	1	1.000	1.000	1.000
Pearson,RS2	1000	1000	1	1.000	1.000	1.000
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,RS2	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	15	1.000	1.000	1.000
WaldVCF	1000	1000	15	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	15	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	15	1.000	1.000	1.000
Pearson,MM3	1000	1000	15	1.000	1.000	1.000
Pearson,RS2	1000	1000	15	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	17	0.865	0.778	0.558
WaldVCF	1000	1000	17	0.842	0.745	0.520
WaldDiag,MM3	1000	1000	17	0.890	0.783	0.551
WaldDiag,RS2	1000	1000	17	0.892	0.795	0.585
Pearson,MM3	1000	1000	17	0.921	0.870	0.689
Pearson,RS2	1000	1000	17	0.921	0.877	0.724
3F 15V						
Wald	1000	1000	43	1.000	1.000	1.000
WaldVCF	1000	1000	43	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	43	1.000	1.000	1.000
WaldDiag,RS2	1000	1000	43	1.000	1.000	1.000
Pearson,MM3	1000	1000	43	1.000	1.000	1.000
Pearson,RS2	1000	1000	43	1.000	1.000	1.000