

Tables of simulation results

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Simple random sampling

Type I errors ($n = 500$)

	Name	No. repl.	Converged	Rank def.	Rejection rate			crit5	1%	crit1
					10%	crit10	5%			
1F 5V										
	Wald	1000	1000	2	0.100	0.019	0.045	0.013	0.008	0.006
	WaldVCF	1000	1000	2	0.098	0.018	0.045	0.013	0.008	0.006
	WaldDiag,MM3	1000	1000	2	0.032	0.011	0.007	0.005	0.000	0.000
	WaldDiag,RS2	1000	1000	2	0.032	0.011	0.008	0.006	0.000	0.000
	Pearson,MM3	1000	1000	2	0.073	0.016	0.029	0.010	0.004	0.004
	Pearson,RS2	1000	1000	2	0.072	0.016	0.030	0.011	0.004	0.004
1F 8V										
	Wald	1000	1000	0	0.094	0.018	0.043	0.013	0.008	0.006
	WaldVCF	1000	1000	0	0.092	0.018	0.041	0.012	0.008	0.006
	WaldDiag,MM3	1000	1000	0	0.052	0.014	0.023	0.009	0.005	0.004
	WaldDiag,RS2	1000	1000	0	0.054	0.014	0.024	0.009	0.005	0.004
	Pearson,MM3	1000	1000	0	0.086	0.017	0.038	0.012	0.004	0.004
	Pearson,RS2	1000	1000	0	0.086	0.017	0.043	0.013	0.005	0.004
1F 15V										
	Wald	1000	1000	15	0.102	0.019	0.064	0.015	0.020	0.009
	WaldVCF	1000	1000	15	0.101	0.019	0.061	0.015	0.019	0.008
	WaldDiag,MM3	1000	1000	15	0.065	0.015	0.033	0.011	0.008	0.006
	WaldDiag,RS2	1000	1000	15	0.066	0.015	0.034	0.011	0.009	0.006
	Pearson,MM3	1000	1000	15	0.093	0.018	0.043	0.013	0.010	0.006
	Pearson,RS2	1000	1000	15	0.094	0.018	0.047	0.013	0.011	0.006
2F 10V										
	Wald	1000	1000	8	0.112	0.020	0.053	0.014	0.010	0.006
	WaldVCF	1000	1000	8	0.105	0.019	0.051	0.014	0.008	0.006
	WaldDiag,MM3	1000	1000	8	0.026	0.010	0.005	0.004	0.000	0.000
	WaldDiag,RS2	1000	1000	8	0.028	0.010	0.005	0.004	0.000	0.000
	Pearson,MM3	1000	1000	8	0.081	0.017	0.044	0.013	0.009	0.006
	Pearson,RS2	1000	1000	8	0.081	0.017	0.045	0.013	0.009	0.006
3F 15V										
	Wald	1000	1000	24	0.113	0.020	0.063	0.015	0.005	0.004
	WaldVCF	1000	1000	24	0.106	0.019	0.058	0.014	0.004	0.004
	WaldDiag,MM3	1000	1000	24	0.025	0.010	0.008	0.006	0.000	0.000
	WaldDiag,RS2	1000	1000	24	0.026	0.010	0.009	0.006	0.000	0.000
	Pearson,MM3	1000	1000	24	0.091	0.018	0.050	0.014	0.008	0.006
	Pearson,RS2	1000	1000	24	0.093	0.018	0.053	0.014	0.009	0.006

Type I errors ($n = 1000$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	0	0.116	0.020	0.064	0.015	0.008	0.006
	WaldVCF	1000	1000	0	0.114	0.020	0.061	0.015	0.008	0.006
	WaldDiag,MM3	1000	1000	0	0.065	0.015	0.031	0.011	0.003	0.003
	WaldDiag,RS2	1000	1000	0	0.064	0.015	0.032	0.011	0.003	0.003
	Pearson,MM3	1000	1000	0	0.087	0.017	0.046	0.013	0.012	0.007
	Pearson,RS2	1000	1000	0	0.087	0.017	0.050	0.014	0.014	0.007
1F 8V										
	Wald	1000	1000	1	0.112	0.020	0.067	0.015	0.008	0.006
	WaldVCF	1000	1000	1	0.111	0.019	0.066	0.015	0.008	0.006
	WaldDiag,MM3	1000	1000	1	0.083	0.017	0.040	0.012	0.008	0.006
	WaldDiag,RS2	1000	1000	1	0.083	0.017	0.041	0.012	0.009	0.006
	Pearson,MM3	1000	1000	1	0.094	0.018	0.039	0.012	0.004	0.004
	Pearson,RS2	1000	1000	1	0.096	0.018	0.043	0.013	0.008	0.006
1F 15V										
	Wald	1000	1000	7	0.098	0.018	0.058	0.014	0.017	0.008
	WaldVCF	1000	1000	7	0.097	0.018	0.058	0.014	0.016	0.008
	WaldDiag,MM3	1000	1000	7	0.066	0.015	0.042	0.012	0.010	0.006
	WaldDiag,RS2	1000	1000	7	0.067	0.015	0.042	0.012	0.011	0.006
	Pearson,MM3	1000	1000	7	0.094	0.018	0.045	0.013	0.013	0.007
	Pearson,RS2	1000	1000	7	0.095	0.018	0.048	0.013	0.014	0.007
2F 10V										
	Wald	1000	1000	5	0.101	0.019	0.051	0.014	0.012	0.007
	WaldVCF	1000	1000	5	0.097	0.018	0.050	0.014	0.011	0.006
	WaldDiag,MM3	1000	1000	5	0.052	0.014	0.023	0.009	0.002	0.003
	WaldDiag,RS2	1000	1000	5	0.054	0.014	0.023	0.009	0.003	0.003
	Pearson,MM3	1000	1000	5	0.104	0.019	0.056	0.014	0.014	0.007
	Pearson,RS2	1000	1000	5	0.105	0.019	0.061	0.015	0.016	0.008
3F 15V										
	Wald	1000	1000	34	0.115	0.020	0.061	0.015	0.013	0.007
	WaldVCF	1000	1000	34	0.109	0.019	0.056	0.014	0.013	0.007
	WaldDiag,MM3	1000	1000	34	0.057	0.014	0.025	0.010	0.006	0.005
	WaldDiag,RS2	1000	1000	34	0.057	0.014	0.026	0.010	0.007	0.005
	Pearson,MM3	1000	1000	34	0.108	0.019	0.064	0.015	0.012	0.007
	Pearson,RS2	1000	1000	34	0.111	0.019	0.067	0.015	0.017	0.008

Type I errors ($n = 2000$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	0	0.097	0.018	0.046	0.013	0.015	0.008
	WaldVCF	1000	1000	0	0.096	0.018	0.046	0.013	0.015	0.008
	WaldDiag,MM3	1000	1000	0	0.067	0.015	0.029	0.010	0.010	0.006
	WaldDiag,RS2	1000	1000	0	0.066	0.015	0.030	0.011	0.013	0.007
	Pearson,MM3	1000	1000	0	0.090	0.018	0.048	0.013	0.014	0.007
	Pearson,RS2	1000	1000	0	0.088	0.018	0.049	0.013	0.015	0.008
1F 8V										
	Wald	1000	1000	4	0.099	0.019	0.046	0.013	0.007	0.005
	WaldVCF	1000	1000	4	0.099	0.019	0.046	0.013	0.007	0.005
	WaldDiag,MM3	1000	1000	4	0.079	0.017	0.033	0.011	0.008	0.006
	WaldDiag,RS2	1000	1000	4	0.081	0.017	0.036	0.012	0.009	0.006
	Pearson,MM3	1000	1000	4	0.097	0.018	0.053	0.014	0.009	0.006
	Pearson,RS2	1000	1000	4	0.097	0.018	0.059	0.015	0.012	0.007
1F 15V										
	Wald	1000	1000	19	0.090	0.018	0.045	0.013	0.006	0.005
	WaldVCF	1000	1000	19	0.089	0.018	0.045	0.013	0.006	0.005
	WaldDiag,MM3	1000	1000	19	0.067	0.015	0.032	0.011	0.008	0.006
	WaldDiag,RS2	1000	1000	19	0.067	0.015	0.034	0.011	0.008	0.006
	Pearson,MM3	1000	1000	19	0.103	0.019	0.052	0.014	0.013	0.007
	Pearson,RS2	1000	1000	19	0.104	0.019	0.057	0.014	0.015	0.008
2F 10V										
	Wald	1000	1000	15	0.108	0.019	0.061	0.015	0.009	0.006
	WaldVCF	1000	1000	15	0.107	0.019	0.059	0.015	0.008	0.006
	WaldDiag,MM3	1000	1000	15	0.080	0.017	0.042	0.012	0.006	0.005
	WaldDiag,RS2	1000	1000	15	0.081	0.017	0.044	0.013	0.009	0.006
	Pearson,MM3	1000	1000	15	0.086	0.017	0.046	0.013	0.009	0.006
	Pearson,RS2	1000	1000	15	0.087	0.017	0.050	0.014	0.011	0.006
3F 15V										
	Wald	1000	1000	47	0.110	0.019	0.063	0.015	0.019	0.008
	WaldVCF	1000	1000	47	0.096	0.018	0.058	0.014	0.016	0.008
	WaldDiag,MM3	1000	1000	47	0.072	0.016	0.043	0.013	0.007	0.005
	WaldDiag,RS2	1000	1000	47	0.076	0.016	0.044	0.013	0.009	0.006
	Pearson,MM3	1000	1000	47	0.108	0.019	0.048	0.013	0.011	0.006
	Pearson,RS2	1000	1000	47	0.110	0.019	0.050	0.014	0.012	0.007

Type I errors ($n = 3000$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	1	0.092	0.018	0.051	0.014	0.005	0.004
	WaldVCF	1000	1000	1	0.090	0.018	0.050	0.014	0.005	0.004
	WaldDiag,MM3	1000	1000	1	0.072	0.016	0.036	0.012	0.002	0.003
	WaldDiag,RS2	1000	1000	1	0.071	0.016	0.037	0.012	0.003	0.003
	Pearson,MM3	1000	1000	1	0.085	0.017	0.044	0.013	0.007	0.005
	Pearson,RS2	1000	1000	1	0.084	0.017	0.045	0.013	0.008	0.006
1F 8V										
	Wald	1000	1000	1	0.104	0.019	0.049	0.013	0.005	0.004
	WaldVCF	1000	1000	1	0.104	0.019	0.048	0.013	0.005	0.004
	WaldDiag,MM3	1000	1000	1	0.090	0.018	0.043	0.013	0.006	0.005
	WaldDiag,RS2	1000	1000	1	0.092	0.018	0.045	0.013	0.006	0.005
	Pearson,MM3	1000	1000	1	0.094	0.018	0.044	0.013	0.010	0.006
	Pearson,RS2	1000	1000	1	0.095	0.018	0.050	0.014	0.013	0.007
1F 15V										
	Wald	1000	1000	27	0.109	0.019	0.059	0.015	0.006	0.005
	WaldVCF	1000	1000	27	0.107	0.019	0.056	0.014	0.006	0.005
	WaldDiag,MM3	1000	1000	27	0.097	0.018	0.049	0.013	0.010	0.006
	WaldDiag,RS2	1000	1000	27	0.097	0.018	0.051	0.014	0.012	0.007
	Pearson,MM3	1000	1000	27	0.107	0.019	0.049	0.013	0.011	0.006
	Pearson,RS2	1000	1000	27	0.108	0.019	0.050	0.014	0.015	0.008
2F 10V										
	Wald	1000	1000	16	0.106	0.019	0.057	0.014	0.010	0.006
	WaldVCF	1000	1000	16	0.104	0.019	0.051	0.014	0.009	0.006
	WaldDiag,MM3	1000	1000	16	0.072	0.016	0.043	0.013	0.005	0.004
	WaldDiag,RS2	1000	1000	16	0.073	0.016	0.043	0.013	0.006	0.005
	Pearson,MM3	1000	1000	16	0.088	0.018	0.035	0.011	0.011	0.006
	Pearson,RS2	1000	1000	16	0.092	0.018	0.037	0.012	0.012	0.007
3F 15V										
	Wald	1000	1000	47	0.117	0.020	0.059	0.015	0.010	0.006
	WaldVCF	1000	1000	47	0.104	0.019	0.056	0.014	0.010	0.006
	WaldDiag,MM3	1000	1000	47	0.086	0.017	0.038	0.012	0.007	0.005
	WaldDiag,RS2	1000	1000	47	0.086	0.017	0.040	0.012	0.008	0.006
	Pearson,MM3	1000	1000	47	0.098	0.018	0.053	0.014	0.012	0.007
	Pearson,RS2	1000	1000	47	0.100	0.019	0.054	0.014	0.015	0.008

Power ($n = 500$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	0	0.328	0.029	0.227	0.026	0.089	0.018
	WaldVCF	1000	1000	0	0.327	0.029	0.225	0.026	0.089	0.018
	WaldDiag,MM3	1000	1000	0	0.135	0.021	0.058	0.014	0.011	0.006
	WaldDiag,RS2	1000	1000	0	0.135	0.021	0.059	0.015	0.012	0.007
	Pearson,MM3	1000	1000	0	0.333	0.029	0.217	0.026	0.089	0.018
	Pearson,RS2	1000	1000	0	0.331	0.029	0.223	0.026	0.100	0.019
1F 8V										
	Wald	1000	1000	3	0.818	0.024	0.740	0.027	0.565	0.031
	WaldVCF	1000	1000	3	0.815	0.024	0.739	0.027	0.561	0.031
	WaldDiag,MM3	1000	1000	3	0.705	0.028	0.561	0.031	0.302	0.028
	WaldDiag,RS2	1000	1000	3	0.705	0.028	0.566	0.031	0.318	0.029
	Pearson,MM3	1000	1000	3	0.681	0.029	0.564	0.031	0.316	0.029
	Pearson,RS2	1000	1000	3	0.683	0.029	0.576	0.031	0.342	0.029
1F 15V										
	Wald	1000	1000	6	0.966	0.011	0.938	0.015	0.861	0.021
	WaldVCF	1000	1000	6	0.966	0.011	0.936	0.015	0.859	0.022
	WaldDiag,MM3	1000	1000	6	0.932	0.016	0.883	0.020	0.756	0.027
	WaldDiag,RS2	1000	1000	6	0.932	0.016	0.886	0.020	0.764	0.026
	Pearson,MM3	1000	1000	6	0.911	0.018	0.862	0.021	0.727	0.028
	Pearson,RS2	1000	1000	6	0.912	0.018	0.866	0.021	0.740	0.027
2F 10V										
	Wald	1000	1000	11	0.189	0.024	0.123	0.020	0.030	0.011
	WaldVCF	1000	1000	11	0.178	0.024	0.117	0.020	0.027	0.010
	WaldDiag,MM3	1000	1000	11	0.108	0.019	0.044	0.013	0.009	0.006
	WaldDiag,RS2	1000	1000	11	0.111	0.019	0.046	0.013	0.011	0.006
	Pearson,MM3	1000	1000	11	0.217	0.026	0.136	0.021	0.045	0.013
	Pearson,RS2	1000	1000	11	0.219	0.026	0.143	0.022	0.053	0.014
3F 15V										
	Wald	1000	1000	26	0.222	0.026	0.152	0.022	0.056	0.014
	WaldVCF	1000	1000	26	0.213	0.025	0.146	0.022	0.053	0.014
	WaldDiag,MM3	1000	1000	26	0.136	0.021	0.081	0.017	0.021	0.009
	WaldDiag,RS2	1000	1000	26	0.139	0.021	0.084	0.017	0.024	0.009
	Pearson,MM3	1000	1000	26	0.266	0.027	0.168	0.023	0.058	0.014
	Pearson,RS2	1000	1000	26	0.269	0.027	0.172	0.023	0.071	0.016

Power ($n = 1000$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	0	0.527	0.031	0.422	0.031	0.228	0.026
	WaldVCF	1000	1000	0	0.527	0.031	0.419	0.031	0.226	0.026
	WaldDiag,MM3	1000	1000	0	0.376	0.030	0.240	0.026	0.077	0.017
	WaldDiag,RS2	1000	1000	0	0.375	0.030	0.245	0.027	0.083	0.017
	Pearson,MM3	1000	1000	0	0.545	0.031	0.446	0.031	0.258	0.027
	Pearson,RS2	1000	1000	0	0.545	0.031	0.452	0.031	0.264	0.027
1F 8V										
	Wald	1000	1000	4	0.979	0.009	0.969	0.011	0.907	0.018
	WaldVCF	1000	1000	4	0.979	0.009	0.969	0.011	0.906	0.018
	WaldDiag,MM3	1000	1000	4	0.956	0.013	0.925	0.016	0.813	0.024
	WaldDiag,RS2	1000	1000	4	0.957	0.013	0.926	0.016	0.823	0.024
	Pearson,MM3	1000	1000	4	0.927	0.016	0.883	0.020	0.726	0.028
	Pearson,RS2	1000	1000	4	0.927	0.016	0.886	0.020	0.743	0.027
1F 15V										
	Wald	1000	1000	8	1.000	0.000	1.000	0.000	0.997	0.003
	WaldVCF	1000	1000	8	1.000	0.000	1.000	0.000	0.997	0.003
	WaldDiag,MM3	1000	1000	8	1.000	0.000	0.999	0.002	0.993	0.005
	WaldDiag,RS2	1000	1000	8	1.000	0.000	0.999	0.002	0.993	0.005
	Pearson,MM3	1000	1000	8	0.997	0.003	0.996	0.004	0.985	0.008
	Pearson,RS2	1000	1000	8	0.998	0.003	0.996	0.004	0.985	0.008
2F 10V										
	Wald	1000	1000	13	0.314	0.029	0.210	0.025	0.090	0.018
	WaldVCF	1000	1000	13	0.297	0.028	0.199	0.025	0.082	0.017
	WaldDiag,MM3	1000	1000	13	0.272	0.028	0.166	0.023	0.059	0.015
	WaldDiag,RS2	1000	1000	13	0.273	0.028	0.173	0.023	0.068	0.016
	Pearson,MM3	1000	1000	13	0.388	0.030	0.284	0.028	0.141	0.022
	Pearson,RS2	1000	1000	13	0.391	0.030	0.295	0.028	0.154	0.022
3F 15V										
	Wald	1000	1000	25	0.399	0.030	0.298	0.028	0.143	0.022
	WaldVCF	1000	1000	25	0.381	0.030	0.285	0.028	0.126	0.021
	WaldDiag,MM3	1000	1000	25	0.379	0.030	0.265	0.027	0.127	0.021
	WaldDiag,RS2	1000	1000	25	0.380	0.030	0.271	0.028	0.135	0.021
	Pearson,MM3	1000	1000	25	0.498	0.031	0.383	0.030	0.216	0.026
	Pearson,RS2	1000	1000	25	0.498	0.031	0.396	0.030	0.226	0.026

Power ($n = 2000$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	0	0.796	0.025	0.708	0.028	0.513	0.031
	WaldVCF	1000	1000	0	0.796	0.025	0.708	0.028	0.510	0.031
	WaldDiag,MM3	1000	1000	0	0.672	0.029	0.543	0.031	0.284	0.028
	WaldDiag,RS2	1000	1000	0	0.669	0.029	0.548	0.031	0.297	0.028
	Pearson,MM3	1000	1000	0	0.811	0.024	0.744	0.027	0.537	0.031
	Pearson,RS2	1000	1000	0	0.811	0.024	0.749	0.027	0.552	0.031
1F 8V										
	Wald	1000	1000	4	1.000	0.000	1.000	0.000	0.999	0.002
	WaldVCF	1000	1000	4	1.000	0.000	1.000	0.000	0.999	0.002
	WaldDiag,MM3	1000	1000	4	1.000	0.000	1.000	0.000	0.995	0.004
	WaldDiag,RS2	1000	1000	4	1.000	0.000	1.000	0.000	0.997	0.003
	Pearson,MM3	1000	1000	4	0.998	0.003	0.993	0.005	0.974	0.010
	Pearson,RS2	1000	1000	4	0.998	0.003	0.993	0.005	0.978	0.009
1F 15V										
	Wald	1000	1000	14	1.000	0.000	1.000	0.000	1.000	0.000
	WaldVCF	1000	1000	14	1.000	0.000	1.000	0.000	1.000	0.000
	WaldDiag,MM3	1000	1000	14	1.000	0.000	1.000	0.000	1.000	0.000
	WaldDiag,RS2	1000	1000	14	1.000	0.000	1.000	0.000	1.000	0.000
	Pearson,MM3	1000	1000	14	1.000	0.000	1.000	0.000	1.000	0.000
	Pearson,RS2	1000	1000	14	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V										
	Wald	1000	1000	10	0.534	0.031	0.424	0.031	0.260	0.027
	WaldVCF	1000	1000	10	0.520	0.031	0.406	0.030	0.240	0.026
	WaldDiag,MM3	1000	1000	10	0.527	0.031	0.418	0.031	0.250	0.027
	WaldDiag,RS2	1000	1000	10	0.534	0.031	0.425	0.031	0.264	0.027
	Pearson,MM3	1000	1000	10	0.609	0.030	0.505	0.031	0.340	0.029
	Pearson,RS2	1000	1000	10	0.611	0.030	0.513	0.031	0.372	0.030
3F 15V										
	Wald	1000	1000	42	0.662	0.029	0.575	0.031	0.384	0.030
	WaldVCF	1000	1000	42	0.650	0.030	0.552	0.031	0.363	0.030
	WaldDiag,MM3	1000	1000	42	0.698	0.028	0.592	0.030	0.400	0.030
	WaldDiag,RS2	1000	1000	42	0.700	0.028	0.600	0.030	0.421	0.031
	Pearson,MM3	1000	1000	42	0.768	0.026	0.686	0.029	0.515	0.031
	Pearson,RS2	1000	1000	42	0.769	0.026	0.689	0.029	0.531	0.031

Power ($n = 3000$)

	Name	No. repl.	Converged	Rank def.	Rejection rate					
					10%	crit10	5%	crit5	1%	crit1
1F 5V										
	Wald	1000	1000	0	0.924	0.016	0.879	0.020	0.740	0.027
	WaldVCF	1000	1000	0	0.923	0.017	0.879	0.020	0.739	0.027
	WaldDiag,MM3	1000	1000	0	0.854	0.022	0.782	0.026	0.546	0.031
	WaldDiag,RS2	1000	1000	0	0.853	0.022	0.785	0.025	0.565	0.031
	Pearson,MM3	1000	1000	0	0.933	0.015	0.889	0.019	0.756	0.027
	Pearson,RS2	1000	1000	0	0.933	0.015	0.891	0.019	0.770	0.026
1F 8V										
	Wald	1000	1000	3	1.000	0.000	1.000	0.000	1.000	0.000
	WaldVCF	1000	1000	3	1.000	0.000	1.000	0.000	1.000	0.000
	WaldDiag,MM3	1000	1000	3	1.000	0.000	1.000	0.000	1.000	0.000
	WaldDiag,RS2	1000	1000	3	1.000	0.000	1.000	0.000	1.000	0.000
	Pearson,MM3	1000	1000	3	1.000	0.000	1.000	0.000	0.997	0.003
	Pearson,RS2	1000	1000	3	1.000	0.000	1.000	0.000	0.998	0.003
1F 15V										
	Wald	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
	WaldVCF	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
	WaldDiag,MM3	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
	WaldDiag,RS2	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
	Pearson,MM3	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
	Pearson,RS2	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V										
	Wald	1000	1000	12	0.651	0.030	0.557	0.031	0.393	0.030
	WaldVCF	1000	1000	12	0.636	0.030	0.541	0.031	0.373	0.030
	WaldDiag,MM3	1000	1000	12	0.680	0.029	0.567	0.031	0.397	0.030
	WaldDiag,RS2	1000	1000	12	0.680	0.029	0.578	0.031	0.410	0.030
	Pearson,MM3	1000	1000	12	0.709	0.028	0.635	0.030	0.473	0.031
	Pearson,RS2	1000	1000	12	0.710	0.028	0.646	0.030	0.497	0.031
3F 15V										
	Wald	1000	1000	39	0.812	0.024	0.731	0.027	0.578	0.031
	WaldVCF	1000	1000	39	0.801	0.025	0.718	0.028	0.557	0.031
	WaldDiag,MM3	1000	1000	39	0.844	0.022	0.784	0.026	0.622	0.030
	WaldDiag,RS2	1000	1000	39	0.845	0.022	0.787	0.025	0.644	0.030
	Pearson,MM3	1000	1000	39	0.869	0.021	0.811	0.024	0.682	0.029
	Pearson,RS2	1000	1000	39	0.871	0.021	0.817	0.024	0.700	0.028

Stratified sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	1	0.178	0.024	0.108	0.019	0.032	0.011	
WaldVCF	1000	1000	1	0.148	0.022	0.075	0.016	0.015	0.008	
WaldDiag,MM3	1000	1000	1	0.065	0.015	0.025	0.010	0.002	0.003	
WaldDiag,RS2	1000	1000	1	0.065	0.015	0.027	0.010	0.002	0.003	
Pearson,MM3	1000	1000	1	0.118	0.020	0.060	0.015	0.010	0.006	
Pearson,RS2	1000	1000	1	0.117	0.020	0.061	0.015	0.012	0.007	
1F 8V										
Wald	1000	1000	5	0.353	0.030	0.241	0.027	0.105	0.019	
WaldVCF	1000	1000	5	0.178	0.024	0.107	0.019	0.031	0.011	
WaldDiag,MM3	1000	1000	5	0.087	0.017	0.043	0.013	0.007	0.005	
WaldDiag,RS2	1000	1000	5	0.088	0.018	0.043	0.013	0.009	0.006	
Pearson,MM3	1000	1000	5	0.177	0.024	0.107	0.019	0.023	0.009	
Pearson,RS2	1000	1000	5	0.178	0.024	0.110	0.019	0.029	0.010	
1F 15V										
Wald	1000	1000	13	0.913	0.017	0.838	0.023	0.636	0.030	
WaldVCF	1000	1000	13	0.351	0.030	0.189	0.024	0.057	0.014	
WaldDiag,MM3	1000	1000	13	0.114	0.020	0.049	0.013	0.004	0.004	
WaldDiag,RS2	1000	1000	13	0.116	0.020	0.055	0.014	0.005	0.004	
Pearson,MM3	1000	1000	13	0.254	0.027	0.152	0.022	0.046	0.013	
Pearson,RS2	1000	1000	13	0.254	0.027	0.159	0.023	0.050	0.014	
2F 10V										
Wald	1000	1000	14	0.436	0.031	0.315	0.029	0.146	0.022	
WaldVCF	1000	1000	14	0.235	0.026	0.140	0.022	0.036	0.012	
WaldDiag,MM3	1000	1000	14	0.067	0.015	0.026	0.010	0.004	0.004	
WaldDiag,RS2	1000	1000	14	0.068	0.016	0.028	0.010	0.005	0.004	
Pearson,MM3	1000	1000	14	0.183	0.024	0.104	0.019	0.024	0.009	
Pearson,RS2	1000	1000	14	0.184	0.024	0.110	0.019	0.032	0.011	
3F 15V										
Wald	1000	1000	40	0.704	0.028	0.572	0.031	0.328	0.029	
WaldVCF	1000	1000	40	0.309	0.029	0.165	0.023	0.040	0.012	
WaldDiag,MM3	1000	1000	40	0.079	0.017	0.032	0.011	0.003	0.003	
WaldDiag,RS2	1000	1000	40	0.080	0.017	0.034	0.011	0.005	0.004	
Pearson,MM3	1000	1000	40	0.188	0.024	0.108	0.019	0.021	0.009	
Pearson,RS2	1000	1000	40	0.190	0.024	0.114	0.020	0.023	0.009	

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	1	0.133	0.021	0.080	0.017	0.020	0.009	
WaldVCF	1000	1000	1	0.118	0.020	0.064	0.015	0.011	0.006	
WaldDiag,MM3	1000	1000	1	0.093	0.018	0.038	0.012	0.003	0.003	
WaldDiag,RS2	1000	1000	1	0.091	0.018	0.040	0.012	0.005	0.004	
Pearson,MM3	1000	1000	1	0.123	0.020	0.060	0.015	0.011	0.006	
Pearson,RS2	1000	1000	1	0.122	0.020	0.062	0.015	0.013	0.007	
1F 8V										
Wald	1000	1000	2	0.256	0.027	0.157	0.023	0.048	0.013	
WaldVCF	1000	1000	2	0.185	0.024	0.100	0.019	0.020	0.009	
WaldDiag,MM3	1000	1000	2	0.107	0.019	0.045	0.013	0.007	0.005	
WaldDiag,RS2	1000	1000	2	0.109	0.019	0.048	0.013	0.008	0.006	
Pearson,MM3	1000	1000	2	0.185	0.024	0.097	0.018	0.032	0.011	
Pearson,RS2	1000	1000	2	0.186	0.024	0.101	0.019	0.036	0.012	
1F 15V										
Wald	1000	1000	17	0.617	0.030	0.500	0.031	0.270	0.028	
WaldVCF	1000	1000	17	0.324	0.029	0.212	0.025	0.065	0.015	
WaldDiag,MM3	1000	1000	17	0.173	0.023	0.084	0.017	0.019	0.008	
WaldDiag,RS2	1000	1000	17	0.173	0.023	0.091	0.018	0.021	0.009	
Pearson,MM3	1000	1000	17	0.296	0.028	0.180	0.024	0.040	0.012	
Pearson,RS2	1000	1000	17	0.300	0.028	0.183	0.024	0.048	0.013	
2F 10V										
Wald	1000	1000	8	0.272	0.028	0.167	0.023	0.063	0.015	
WaldVCF	1000	1000	8	0.188	0.024	0.110	0.019	0.032	0.011	
WaldDiag,MM3	1000	1000	8	0.093	0.018	0.054	0.014	0.011	0.006	
WaldDiag,RS2	1000	1000	8	0.095	0.018	0.054	0.014	0.013	0.007	
Pearson,MM3	1000	1000	8	0.164	0.023	0.091	0.018	0.024	0.009	
Pearson,RS2	1000	1000	8	0.166	0.023	0.100	0.019	0.029	0.010	
3F 15V										
Wald	1000	1000	38	0.524	0.031	0.382	0.030	0.178	0.024	
WaldVCF	1000	1000	38	0.316	0.029	0.201	0.025	0.065	0.015	
WaldDiag,MM3	1000	1000	38	0.136	0.021	0.074	0.016	0.014	0.007	
WaldDiag,RS2	1000	1000	38	0.139	0.021	0.076	0.016	0.018	0.008	
Pearson,MM3	1000	1000	38	0.236	0.026	0.119	0.020	0.046	0.013	
Pearson,RS2	1000	1000	38	0.241	0.027	0.125	0.020	0.049	0.013	

Type I errors ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	1	0.146	0.022	0.079	0.017	0.021	0.009	
WaldVCF	1000	1000	1	0.140	0.022	0.074	0.016	0.018	0.008	
WaldDiag,MM3	1000	1000	1	0.108	0.019	0.052	0.014	0.012	0.007	
WaldDiag,RS2	1000	1000	1	0.108	0.019	0.054	0.014	0.014	0.007	
Pearson,MM3	1000	1000	1	0.129	0.021	0.075	0.016	0.018	0.008	
Pearson,RS2	1000	1000	1	0.129	0.021	0.075	0.016	0.019	0.008	
1F 8V										
Wald	1000	1000	0	0.215	0.025	0.118	0.020	0.042	0.012	
WaldVCF	1000	1000	0	0.179	0.024	0.089	0.018	0.027	0.010	
WaldDiag,MM3	1000	1000	0	0.130	0.021	0.070	0.016	0.015	0.008	
WaldDiag,RS2	1000	1000	0	0.130	0.021	0.075	0.016	0.015	0.008	
Pearson,MM3	1000	1000	0	0.197	0.025	0.130	0.021	0.037	0.012	
Pearson,RS2	1000	1000	0	0.201	0.025	0.132	0.021	0.041	0.012	
1F 15V										
Wald	1000	1000	20	0.392	0.030	0.266	0.027	0.088	0.018	
WaldVCF	1000	1000	20	0.263	0.027	0.154	0.022	0.033	0.011	
WaldDiag,MM3	1000	1000	20	0.163	0.023	0.064	0.015	0.013	0.007	
WaldDiag,RS2	1000	1000	20	0.165	0.023	0.072	0.016	0.015	0.008	
Pearson,MM3	1000	1000	20	0.273	0.028	0.175	0.024	0.054	0.014	
Pearson,RS2	1000	1000	20	0.273	0.028	0.178	0.024	0.063	0.015	
2F 10V										
Wald	1000	1000	11	0.268	0.027	0.160	0.023	0.061	0.015	
WaldVCF	1000	1000	11	0.216	0.026	0.122	0.020	0.049	0.013	
WaldDiag,MM3	1000	1000	11	0.153	0.022	0.078	0.017	0.018	0.008	
WaldDiag,RS2	1000	1000	11	0.155	0.022	0.080	0.017	0.025	0.010	
Pearson,MM3	1000	1000	11	0.191	0.024	0.115	0.020	0.037	0.012	
Pearson,RS2	1000	1000	11	0.192	0.024	0.124	0.020	0.043	0.013	
3F 15V										
Wald	1000	1000	44	0.411	0.030	0.297	0.028	0.099	0.019	
WaldVCF	1000	1000	44	0.330	0.029	0.198	0.025	0.057	0.014	
WaldDiag,MM3	1000	1000	44	0.202	0.025	0.102	0.019	0.020	0.009	
WaldDiag,RS2	1000	1000	44	0.202	0.025	0.109	0.019	0.025	0.010	
Pearson,MM3	1000	1000	44	0.250	0.027	0.152	0.022	0.049	0.013	
Pearson,RS2	1000	1000	44	0.253	0.027	0.161	0.023	0.054	0.014	

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	1	0.147	0.022	0.083	0.017	0.025	0.010	
WaldVCF	1000	1000	1	0.144	0.022	0.076	0.016	0.022	0.009	
WaldDiag,MM3	1000	1000	1	0.113	0.020	0.063	0.015	0.016	0.008	
WaldDiag,RS2	1000	1000	1	0.113	0.020	0.064	0.015	0.018	0.008	
Pearson,MM3	1000	1000	1	0.132	0.021	0.075	0.016	0.017	0.008	
Pearson,RS2	1000	1000	1	0.131	0.021	0.077	0.017	0.021	0.009	
1F 8V										
Wald	1000	1000	4	0.183	0.024	0.109	0.019	0.033	0.011	
WaldVCF	1000	1000	4	0.168	0.023	0.092	0.018	0.030	0.011	
WaldDiag,MM3	1000	1000	4	0.127	0.021	0.059	0.015	0.012	0.007	
WaldDiag,RS2	1000	1000	4	0.127	0.021	0.063	0.015	0.015	0.008	
Pearson,MM3	1000	1000	4	0.180	0.024	0.106	0.019	0.035	0.011	
Pearson,RS2	1000	1000	4	0.181	0.024	0.110	0.019	0.044	0.013	
1F 15V										
Wald	1000	1000	23	0.353	0.030	0.213	0.025	0.083	0.017	
WaldVCF	1000	1000	23	0.258	0.027	0.153	0.022	0.047	0.013	
WaldDiag,MM3	1000	1000	23	0.187	0.024	0.102	0.019	0.026	0.010	
WaldDiag,RS2	1000	1000	23	0.189	0.024	0.102	0.019	0.027	0.010	
Pearson,MM3	1000	1000	23	0.286	0.028	0.182	0.024	0.050	0.014	
Pearson,RS2	1000	1000	23	0.287	0.028	0.186	0.024	0.057	0.014	
2F 10V										
Wald	1000	1000	15	0.234	0.026	0.131	0.021	0.047	0.013	
WaldVCF	1000	1000	15	0.204	0.025	0.109	0.019	0.037	0.012	
WaldDiag,MM3	1000	1000	15	0.136	0.021	0.076	0.016	0.014	0.007	
WaldDiag,RS2	1000	1000	15	0.138	0.021	0.078	0.017	0.018	0.008	
Pearson,MM3	1000	1000	15	0.193	0.024	0.101	0.019	0.024	0.009	
Pearson,RS2	1000	1000	15	0.194	0.025	0.109	0.019	0.032	0.011	
3F 15V										
Wald	1000	1000	53	0.381	0.030	0.275	0.028	0.087	0.017	
WaldVCF	1000	1000	53	0.322	0.029	0.200	0.025	0.054	0.014	
WaldDiag,MM3	1000	1000	53	0.198	0.025	0.109	0.019	0.034	0.011	
WaldDiag,RS2	1000	1000	53	0.200	0.025	0.112	0.020	0.036	0.012	
Pearson,MM3	1000	1000	53	0.275	0.028	0.175	0.024	0.054	0.014	
Pearson,RS2	1000	1000	53	0.275	0.028	0.179	0.024	0.058	0.014	

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	1	0.409	0.030	0.289	0.028	0.121	0.020
WaldVCF	1000	1000	1	0.365	0.030	0.230	0.026	0.084	0.017
WaldDiag,MM3	1000	1000	1	0.183	0.024	0.084	0.017	0.010	0.006
WaldDiag,RS2	1000	1000	1	0.181	0.024	0.087	0.017	0.016	0.008
Pearson,MM3	1000	1000	1	0.384	0.030	0.257	0.027	0.097	0.018
Pearson,RS2	1000	1000	1	0.382	0.030	0.260	0.027	0.112	0.020
1F 8V									
Wald	1000	1000	2	0.886	0.020	0.821	0.024	0.644	0.030
WaldVCF	1000	1000	2	0.724	0.028	0.580	0.031	0.311	0.029
WaldDiag,MM3	1000	1000	2	0.697	0.028	0.561	0.031	0.301	0.028
WaldDiag,RS2	1000	1000	2	0.699	0.028	0.574	0.031	0.326	0.029
Pearson,MM3	1000	1000	2	0.733	0.027	0.603	0.030	0.355	0.030
Pearson,RS2	1000	1000	2	0.733	0.027	0.617	0.030	0.383	0.030
1F 15V									
Wald	1000	1000	24	0.999	0.002	0.999	0.002	0.979	0.009
WaldVCF	1000	1000	24	0.826	0.023	0.700	0.028	0.348	0.030
WaldDiag,MM3	1000	1000	24	0.943	0.014	0.873	0.021	0.673	0.029
WaldDiag,RS2	1000	1000	24	0.944	0.014	0.878	0.020	0.690	0.029
Pearson,MM3	1000	1000	24	0.931	0.016	0.863	0.021	0.699	0.028
Pearson,RS2	1000	1000	24	0.932	0.016	0.868	0.021	0.709	0.028
2F 10V									
Wald	1000	1000	11	0.560	0.031	0.437	0.031	0.238	0.026
WaldVCF	1000	1000	11	0.315	0.029	0.195	0.025	0.046	0.013
WaldDiag,MM3	1000	1000	11	0.162	0.023	0.071	0.016	0.015	0.008
WaldDiag,RS2	1000	1000	11	0.164	0.023	0.079	0.017	0.020	0.009
Pearson,MM3	1000	1000	11	0.316	0.029	0.195	0.025	0.071	0.016
Pearson,RS2	1000	1000	11	0.317	0.029	0.208	0.025	0.086	0.017
3F 15V									
Wald	1000	1000	20	0.859	0.022	0.753	0.027	0.505	0.031
WaldVCF	1000	1000	20	0.404	0.030	0.261	0.027	0.074	0.016
WaldDiag,MM3	1000	1000	20	0.208	0.025	0.095	0.018	0.012	0.007
WaldDiag,RS2	1000	1000	20	0.211	0.025	0.100	0.019	0.014	0.007
Pearson,MM3	1000	1000	20	0.430	0.031	0.286	0.028	0.118	0.020
Pearson,RS2	1000	1000	20	0.437	0.031	0.292	0.028	0.135	0.021

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	0	0.540	0.031	0.434	0.031	0.237	0.026
WaldVCF	1000	1000	0	0.525	0.031	0.412	0.031	0.207	0.025
WaldDiag,MM3	1000	1000	0	0.371	0.030	0.244	0.027	0.065	0.015
WaldDiag,RS2	1000	1000	0	0.369	0.030	0.251	0.027	0.077	0.017
Pearson,MM3	1000	1000	0	0.582	0.031	0.470	0.031	0.260	0.027
Pearson,RS2	1000	1000	0	0.582	0.031	0.478	0.031	0.275	0.028
1F 8V									
Wald	1000	1000	3	0.983	0.008	0.963	0.012	0.881	0.020
WaldVCF	1000	1000	3	0.964	0.012	0.927	0.016	0.767	0.026
WaldDiag,MM3	1000	1000	3	0.973	0.010	0.933	0.015	0.791	0.025
WaldDiag,RS2	1000	1000	3	0.973	0.010	0.940	0.015	0.807	0.024
Pearson,MM3	1000	1000	3	0.940	0.015	0.894	0.019	0.725	0.028
Pearson,RS2	1000	1000	3	0.940	0.015	0.895	0.019	0.751	0.027
1F 15V									
Wald	1000	1000	10	1.000	0.000	0.999	0.002	0.993	0.005
WaldVCF	1000	1000	10	0.990	0.006	0.972	0.010	0.863	0.021
WaldDiag,MM3	1000	1000	10	0.999	0.002	0.999	0.002	0.993	0.005
WaldDiag,RS2	1000	1000	10	1.000	0.000	0.999	0.002	0.993	0.005
Pearson,MM3	1000	1000	10	0.998	0.003	0.997	0.003	0.987	0.007
Pearson,RS2	1000	1000	10	0.998	0.003	0.997	0.003	0.988	0.007
2F 10V									
Wald	1000	1000	9	0.500	0.031	0.375	0.030	0.181	0.024
WaldVCF	1000	1000	9	0.358	0.030	0.253	0.027	0.085	0.017
WaldDiag,MM3	1000	1000	9	0.305	0.029	0.183	0.024	0.053	0.014
WaldDiag,RS2	1000	1000	9	0.306	0.029	0.192	0.024	0.062	0.015
Pearson,MM3	1000	1000	9	0.469	0.031	0.339	0.029	0.148	0.022
Pearson,RS2	1000	1000	9	0.470	0.031	0.347	0.030	0.164	0.023
3F 15V									
Wald	1000	1000	35	0.749	0.027	0.635	0.030	0.381	0.030
WaldVCF	1000	1000	35	0.554	0.031	0.409	0.030	0.173	0.023
WaldDiag,MM3	1000	1000	35	0.438	0.031	0.292	0.028	0.099	0.019
WaldDiag,RS2	1000	1000	35	0.441	0.031	0.298	0.028	0.111	0.019
Pearson,MM3	1000	1000	35	0.650	0.030	0.523	0.031	0.302	0.028
Pearson,RS2	1000	1000	35	0.653	0.030	0.535	0.031	0.326	0.029

Power ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	0	0.827	0.023	0.729	0.028	0.536	0.031
WaldVCF	1000	1000	0	0.820	0.024	0.722	0.028	0.518	0.031
WaldDiag,MM3	1000	1000	0	0.677	0.029	0.540	0.031	0.291	0.028
WaldDiag,RS2	1000	1000	0	0.673	0.029	0.546	0.031	0.311	0.029
Pearson,MM3	1000	1000	0	0.869	0.021	0.783	0.026	0.624	0.030
Pearson,RS2	1000	1000	0	0.868	0.021	0.783	0.026	0.642	0.030
1F 8V									
Wald	1000	1000	1	1.000	0.000	1.000	0.000	0.999	0.002
WaldVCF	1000	1000	1	1.000	0.000	0.999	0.002	0.998	0.003
WaldDiag,MM3	1000	1000	1	0.999	0.002	0.999	0.002	0.998	0.003
WaldDiag,RS2	1000	1000	1	0.999	0.002	0.999	0.002	0.998	0.003
Pearson,MM3	1000	1000	1	0.999	0.002	0.997	0.003	0.990	0.006
Pearson,RS2	1000	1000	1	0.999	0.002	0.998	0.003	0.992	0.006
1F 15V									
Wald	1000	1000	20	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	20	1.000	0.000	1.000	0.000	0.999	0.002
WaldDiag,MM3	1000	1000	20	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	20	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	20	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	20	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V									
Wald	1000	1000	7	0.623	0.030	0.497	0.031	0.262	0.027
WaldVCF	1000	1000	7	0.550	0.031	0.423	0.031	0.183	0.024
WaldDiag,MM3	1000	1000	7	0.574	0.031	0.435	0.031	0.190	0.024
WaldDiag,RS2	1000	1000	7	0.574	0.031	0.445	0.031	0.213	0.025
Pearson,MM3	1000	1000	7	0.698	0.028	0.590	0.030	0.359	0.030
Pearson,RS2	1000	1000	7	0.700	0.028	0.601	0.030	0.399	0.030
3F 15V									
Wald	1000	1000	32	0.855	0.022	0.738	0.027	0.505	0.031
WaldVCF	1000	1000	32	0.764	0.026	0.638	0.030	0.376	0.030
WaldDiag,MM3	1000	1000	32	0.785	0.025	0.674	0.029	0.421	0.031
WaldDiag,RS2	1000	1000	32	0.788	0.025	0.680	0.029	0.451	0.031
Pearson,MM3	1000	1000	32	0.928	0.016	0.859	0.022	0.697	0.028
Pearson,RS2	1000	1000	32	0.928	0.016	0.867	0.021	0.718	0.028

Power ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	0	0.959	0.012	0.917	0.017	0.770	0.026
WaldVCF	1000	1000	0	0.958	0.012	0.913	0.017	0.763	0.026
WaldDiag,MM3	1000	1000	0	0.892	0.019	0.799	0.025	0.538	0.031
WaldDiag,RS2	1000	1000	0	0.892	0.019	0.802	0.025	0.554	0.031
Pearson,MM3	1000	1000	0	0.975	0.010	0.947	0.014	0.838	0.023
Pearson,RS2	1000	1000	0	0.975	0.010	0.948	0.014	0.848	0.022
1F 8V									
Wald	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
1F 15V									
Wald	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	15	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V									
Wald	1000	1000	11	0.762	0.026	0.642	0.030	0.387	0.030
WaldVCF	1000	1000	11	0.708	0.028	0.584	0.031	0.318	0.029
WaldDiag,MM3	1000	1000	11	0.773	0.026	0.646	0.030	0.395	0.030
WaldDiag,RS2	1000	1000	11	0.774	0.026	0.660	0.029	0.426	0.031
Pearson,MM3	1000	1000	11	0.866	0.021	0.785	0.025	0.595	0.030
Pearson,RS2	1000	1000	11	0.867	0.021	0.795	0.025	0.635	0.030
3F 15V									
Wald	1000	1000	39	0.935	0.015	0.868	0.021	0.691	0.029
WaldVCF	1000	1000	39	0.894	0.019	0.815	0.024	0.608	0.030
WaldDiag,MM3	1000	1000	39	0.941	0.015	0.884	0.020	0.712	0.028
WaldDiag,RS2	1000	1000	39	0.941	0.015	0.894	0.019	0.729	0.028
Pearson,MM3	1000	1000	39	0.985	0.008	0.968	0.011	0.896	0.019
Pearson,RS2	1000	1000	39	0.986	0.007	0.968	0.011	0.907	0.018

Cluster sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	6	0.149	0.022	0.081	0.017	0.025	0.010	
WaldVCF	1000	1000	6	0.106	0.019	0.051	0.014	0.009	0.006	
WaldDiag,MM3	1000	1000	6	0.036	0.012	0.012	0.007	0.002	0.003	
WaldDiag,RS2	1000	1000	6	0.035	0.011	0.012	0.007	0.002	0.003	
Pearson,MM3	1000	1000	6	0.084	0.017	0.036	0.012	0.007	0.005	
Pearson,RS2	1000	1000	6	0.084	0.017	0.037	0.012	0.007	0.005	
1F 8V										
Wald	1000	1000	6	0.332	0.029	0.233	0.026	0.114	0.020	
WaldVCF	1000	1000	6	0.124	0.020	0.060	0.015	0.011	0.006	
WaldDiag,MM3	1000	1000	6	0.056	0.014	0.021	0.009	0.002	0.003	
WaldDiag,RS2	1000	1000	6	0.056	0.014	0.024	0.009	0.004	0.004	
Pearson,MM3	1000	1000	6	0.088	0.018	0.040	0.012	0.007	0.005	
Pearson,RS2	1000	1000	6	0.088	0.018	0.043	0.013	0.009	0.006	
1F 15V										
Wald	1000	1000	79	0.847	0.022	0.786	0.025	0.610	0.030	
WaldVCF	1000	1000	79	0.145	0.022	0.067	0.015	0.011	0.006	
WaldDiag,MM3	1000	1000	79	0.068	0.016	0.027	0.010	0.003	0.003	
WaldDiag,RS2	1000	1000	79	0.069	0.016	0.030	0.011	0.004	0.004	
Pearson,MM3	1000	1000	79	0.091	0.018	0.046	0.013	0.008	0.006	
Pearson,RS2	1000	1000	79	0.092	0.018	0.048	0.013	0.009	0.006	
2F 10V										
Wald	1000	1000	21	0.301	0.028	0.202	0.025	0.076	0.016	
WaldVCF	1000	1000	21	0.125	0.020	0.069	0.016	0.010	0.006	
WaldDiag,MM3	1000	1000	21	0.037	0.012	0.015	0.008	0.000	0.000	
WaldDiag,RS2	1000	1000	21	0.037	0.012	0.017	0.008	0.001	0.002	
Pearson,MM3	1000	1000	21	0.074	0.016	0.039	0.012	0.009	0.006	
Pearson,RS2	1000	1000	21	0.074	0.016	0.042	0.012	0.010	0.006	
3F 15V										
Wald	999	999	78	0.518	0.031	0.387	0.030	0.162	0.023	
WaldVCF	999	999	78	0.124	0.020	0.060	0.015	0.010	0.006	
WaldDiag,MM3	999	999	78	0.048	0.013	0.014	0.007	0.000	0.000	
WaldDiag,RS2	999	999	78	0.049	0.013	0.015	0.008	0.000	0.000	
Pearson,MM3	999	999	78	0.086	0.017	0.046	0.013	0.009	0.006	
Pearson,RS2	999	999	78	0.086	0.017	0.051	0.014	0.012	0.007	

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	2	0.139	0.021	0.075	0.016	0.025	0.010
WaldVCF	1000	1000	2	0.122	0.020	0.066	0.015	0.019	0.008
WaldDiag,MM3	1000	1000	2	0.088	0.018	0.042	0.012	0.006	0.005
WaldDiag,RS2	1000	1000	2	0.086	0.017	0.042	0.012	0.009	0.006
Pearson,MM3	1000	1000	2	0.115	0.020	0.067	0.015	0.013	0.007
Pearson,RS2	1000	1000	2	0.115	0.020	0.070	0.016	0.016	0.008
1F 8V									
Wald	1000	1000	3	0.206	0.025	0.128	0.021	0.038	0.012
WaldVCF	1000	1000	3	0.122	0.020	0.063	0.015	0.012	0.007
WaldDiag,MM3	1000	1000	3	0.092	0.018	0.038	0.012	0.006	0.005
WaldDiag,RS2	1000	1000	3	0.093	0.018	0.041	0.012	0.009	0.006
Pearson,MM3	1000	1000	3	0.086	0.017	0.049	0.013	0.009	0.006
Pearson,RS2	1000	1000	3	0.086	0.017	0.050	0.014	0.012	0.007
1F 15V									
Wald	1000	1000	15	0.499	0.031	0.373	0.030	0.183	0.024
WaldVCF	1000	1000	15	0.156	0.022	0.080	0.017	0.014	0.007
WaldDiag,MM3	1000	1000	15	0.086	0.017	0.032	0.011	0.000	0.000
WaldDiag,RS2	1000	1000	15	0.088	0.018	0.038	0.012	0.003	0.003
Pearson,MM3	1000	1000	15	0.093	0.018	0.043	0.013	0.007	0.005
Pearson,RS2	1000	1000	15	0.094	0.018	0.044	0.013	0.007	0.005
2F 10V									
Wald	1000	1000	13	0.213	0.025	0.125	0.020	0.043	0.013
WaldVCF	1000	1000	13	0.144	0.022	0.074	0.016	0.012	0.007
WaldDiag,MM3	1000	1000	13	0.068	0.016	0.024	0.009	0.004	0.004
WaldDiag,RS2	1000	1000	13	0.071	0.016	0.025	0.010	0.006	0.005
Pearson,MM3	1000	1000	13	0.105	0.019	0.046	0.013	0.012	0.007
Pearson,RS2	1000	1000	13	0.105	0.019	0.047	0.013	0.018	0.008
3F 15V									
Wald	1000	1000	44	0.315	0.029	0.202	0.025	0.063	0.015
WaldVCF	1000	1000	44	0.139	0.021	0.077	0.017	0.013	0.007
WaldDiag,MM3	1000	1000	44	0.057	0.014	0.025	0.010	0.005	0.004
WaldDiag,RS2	1000	1000	44	0.057	0.014	0.027	0.010	0.005	0.004
Pearson,MM3	1000	1000	44	0.090	0.018	0.043	0.013	0.005	0.004
Pearson,RS2	1000	1000	44	0.090	0.018	0.044	0.013	0.008	0.006

Type I errors ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	2	0.123	0.020	0.069	0.016	0.020	0.009
WaldVCF	1000	1000	2	0.108	0.019	0.064	0.015	0.017	0.008
WaldDiag,MM3	1000	1000	2	0.099	0.019	0.052	0.014	0.009	0.006
WaldDiag,RS2	1000	1000	2	0.099	0.019	0.053	0.014	0.014	0.007
Pearson,MM3	1000	1000	2	0.099	0.019	0.047	0.013	0.008	0.006
Pearson,RS2	1000	1000	2	0.099	0.019	0.049	0.013	0.011	0.006
1F 8V									
Wald	1000	1000	4	0.153	0.022	0.086	0.017	0.019	0.008
WaldVCF	1000	1000	4	0.116	0.020	0.060	0.015	0.009	0.006
WaldDiag,MM3	1000	1000	4	0.102	0.019	0.051	0.014	0.007	0.005
WaldDiag,RS2	1000	1000	4	0.102	0.019	0.058	0.014	0.008	0.006
Pearson,MM3	1000	1000	4	0.096	0.018	0.048	0.013	0.008	0.006
Pearson,RS2	1000	1000	4	0.096	0.018	0.049	0.013	0.010	0.006
1F 15V									
Wald	1000	1000	24	0.253	0.027	0.166	0.023	0.064	0.015
WaldVCF	1000	1000	24	0.134	0.021	0.077	0.017	0.024	0.009
WaldDiag,MM3	1000	1000	24	0.100	0.019	0.049	0.013	0.008	0.006
WaldDiag,RS2	1000	1000	24	0.100	0.019	0.052	0.014	0.009	0.006
Pearson,MM3	1000	1000	24	0.099	0.019	0.050	0.014	0.011	0.006
Pearson,RS2	1000	1000	24	0.101	0.019	0.051	0.014	0.012	0.007
2F 10V									
Wald	1000	1000	21	0.153	0.022	0.095	0.018	0.023	0.009
WaldVCF	1000	1000	21	0.121	0.020	0.066	0.015	0.017	0.008
WaldDiag,MM3	1000	1000	21	0.099	0.019	0.045	0.013	0.007	0.005
WaldDiag,RS2	1000	1000	21	0.099	0.019	0.049	0.013	0.008	0.006
Pearson,MM3	1000	1000	21	0.116	0.020	0.059	0.015	0.011	0.006
Pearson,RS2	1000	1000	21	0.118	0.020	0.063	0.015	0.016	0.008
3F 15V									
Wald	1000	1000	32	0.193	0.024	0.115	0.020	0.030	0.011
WaldVCF	1000	1000	32	0.130	0.021	0.057	0.014	0.012	0.007
WaldDiag,MM3	1000	1000	32	0.085	0.017	0.039	0.012	0.010	0.006
WaldDiag,RS2	1000	1000	32	0.086	0.017	0.041	0.012	0.012	0.007
Pearson,MM3	1000	1000	32	0.100	0.019	0.052	0.014	0.010	0.006
Pearson,RS2	1000	1000	32	0.103	0.019	0.056	0.014	0.010	0.006

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	4	0.108	0.019	0.054	0.014	0.013	0.007
WaldVCF	1000	1000	4	0.102	0.019	0.049	0.013	0.012	0.007
WaldDiag,MM3	1000	1000	4	0.086	0.017	0.033	0.011	0.008	0.006
WaldDiag,RS2	1000	1000	4	0.086	0.017	0.034	0.011	0.008	0.006
Pearson,MM3	1000	1000	4	0.094	0.018	0.047	0.013	0.007	0.005
Pearson,RS2	1000	1000	4	0.092	0.018	0.048	0.013	0.008	0.006
1F 8V									
Wald	1000	1000	7	0.128	0.021	0.071	0.016	0.013	0.007
WaldVCF	1000	1000	7	0.109	0.019	0.057	0.014	0.006	0.005
WaldDiag,MM3	1000	1000	7	0.096	0.018	0.048	0.013	0.009	0.006
WaldDiag,RS2	1000	1000	7	0.096	0.018	0.049	0.013	0.011	0.006
Pearson,MM3	1000	1000	7	0.093	0.018	0.033	0.011	0.004	0.004
Pearson,RS2	1000	1000	7	0.093	0.018	0.033	0.011	0.006	0.005
1F 15V									
Wald	1000	1000	28	0.225	0.026	0.145	0.022	0.037	0.012
WaldVCF	1000	1000	28	0.154	0.022	0.076	0.016	0.016	0.008
WaldDiag,MM3	1000	1000	28	0.132	0.021	0.057	0.014	0.015	0.008
WaldDiag,RS2	1000	1000	28	0.134	0.021	0.060	0.015	0.017	0.008
Pearson,MM3	1000	1000	28	0.105	0.019	0.056	0.014	0.009	0.006
Pearson,RS2	1000	1000	28	0.107	0.019	0.057	0.014	0.011	0.006
2F 10V									
Wald	1000	1000	18	0.149	0.022	0.083	0.017	0.020	0.009
WaldVCF	1000	1000	18	0.129	0.021	0.067	0.015	0.015	0.008
WaldDiag,MM3	1000	1000	18	0.088	0.018	0.043	0.013	0.011	0.006
WaldDiag,RS2	1000	1000	18	0.091	0.018	0.045	0.013	0.013	0.007
Pearson,MM3	1000	1000	18	0.109	0.019	0.052	0.014	0.010	0.006
Pearson,RS2	1000	1000	18	0.113	0.020	0.054	0.014	0.012	0.007
3F 15V									
Wald	1000	1000	47	0.209	0.025	0.133	0.021	0.035	0.011
WaldVCF	1000	1000	47	0.160	0.023	0.091	0.018	0.024	0.009
WaldDiag,MM3	1000	1000	47	0.113	0.020	0.068	0.016	0.021	0.009
WaldDiag,RS2	1000	1000	47	0.113	0.020	0.069	0.016	0.023	0.009
Pearson,MM3	1000	1000	47	0.137	0.021	0.068	0.016	0.013	0.007
Pearson,RS2	1000	1000	47	0.141	0.022	0.071	0.016	0.020	0.009

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	1	0.351	0.030	0.241	0.027	0.096	0.018
WaldVCF	1000	1000	1	0.310	0.029	0.187	0.024	0.059	0.015
WaldDiag,MM3	1000	1000	1	0.125	0.020	0.054	0.014	0.004	0.004
WaldDiag,RS2	1000	1000	1	0.124	0.020	0.057	0.014	0.006	0.005
Pearson,MM3	1000	1000	1	0.332	0.029	0.199	0.025	0.074	0.016
Pearson,RS2	1000	1000	1	0.330	0.029	0.204	0.025	0.079	0.017
1F 8V									
Wald	1000	1000	5	0.859	0.022	0.777	0.026	0.581	0.031
WaldVCF	1000	1000	5	0.616	0.030	0.485	0.031	0.215	0.025
WaldDiag,MM3	1000	1000	5	0.624	0.030	0.461	0.031	0.226	0.026
WaldDiag,RS2	1000	1000	5	0.629	0.030	0.468	0.031	0.246	0.027
Pearson,MM3	1000	1000	5	0.646	0.030	0.500	0.031	0.229	0.026
Pearson,RS2	1000	1000	5	0.647	0.030	0.508	0.031	0.257	0.027
1F 15V									
Wald	1000	1000	40	0.994	0.005	0.987	0.007	0.947	0.014
WaldVCF	1000	1000	40	0.571	0.031	0.413	0.031	0.152	0.022
WaldDiag,MM3	1000	1000	40	0.853	0.022	0.775	0.026	0.524	0.031
WaldDiag,RS2	1000	1000	40	0.854	0.022	0.782	0.026	0.558	0.031
Pearson,MM3	1000	1000	40	0.834	0.023	0.768	0.026	0.552	0.031
Pearson,RS2	1000	1000	40	0.836	0.023	0.772	0.026	0.575	0.031
2F 10V									
Wald	999	998	19	0.413	0.031	0.306	0.029	0.143	0.022
WaldVCF	999	998	19	0.185	0.024	0.097	0.018	0.020	0.009
WaldDiag,MM3	999	998	19	0.090	0.018	0.040	0.012	0.003	0.003
WaldDiag,RS2	999	998	19	0.091	0.018	0.046	0.013	0.003	0.003
Pearson,MM3	999	998	19	0.206	0.025	0.110	0.019	0.026	0.010
Pearson,RS2	999	998	19	0.207	0.025	0.120	0.020	0.032	0.011
3F 15V									
Wald	1000	999	58	0.683	0.029	0.543	0.031	0.296	0.028
WaldVCF	1000	999	58	0.219	0.026	0.127	0.021	0.022	0.009
WaldDiag,MM3	1000	999	58	0.115	0.020	0.047	0.013	0.005	0.004
WaldDiag,RS2	1000	999	58	0.116	0.020	0.051	0.014	0.006	0.005
Pearson,MM3	1000	999	58	0.271	0.028	0.173	0.023	0.058	0.015
Pearson,RS2	1000	999	58	0.274	0.028	0.181	0.024	0.065	0.015

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	0	0.549	0.031	0.417	0.031	0.199	0.025
WaldVCF	1000	1000	0	0.534	0.031	0.391	0.030	0.170	0.023
WaldDiag,MM3	1000	1000	0	0.349	0.030	0.212	0.025	0.058	0.014
WaldDiag,RS2	1000	1000	0	0.348	0.030	0.212	0.025	0.065	0.015
Pearson,MM3	1000	1000	0	0.602	0.030	0.468	0.031	0.242	0.027
Pearson,RS2	1000	1000	0	0.600	0.030	0.473	0.031	0.258	0.027
1F 8V									
Wald	1000	1000	2	0.984	0.008	0.965	0.011	0.875	0.020
WaldVCF	1000	1000	2	0.961	0.012	0.915	0.017	0.739	0.027
WaldDiag,MM3	1000	1000	2	0.964	0.012	0.925	0.016	0.764	0.026
WaldDiag,RS2	1000	1000	2	0.965	0.011	0.929	0.016	0.782	0.026
Pearson,MM3	1000	1000	2	0.938	0.015	0.895	0.019	0.733	0.027
Pearson,RS2	1000	1000	2	0.938	0.015	0.902	0.018	0.752	0.027
1F 15V									
Wald	1000	1000	18	0.999	0.002	0.999	0.002	0.987	0.007
WaldVCF	1000	1000	18	0.968	0.011	0.912	0.018	0.746	0.027
WaldDiag,MM3	1000	1000	18	0.999	0.002	0.996	0.004	0.985	0.008
WaldDiag,RS2	1000	1000	18	0.999	0.002	0.997	0.003	0.987	0.007
Pearson,MM3	1000	1000	18	0.998	0.003	0.993	0.005	0.969	0.011
Pearson,RS2	1000	1000	18	0.998	0.003	0.993	0.005	0.973	0.010
2F 10V									
Wald	1000	1000	12	0.402	0.030	0.270	0.028	0.104	0.019
WaldVCF	1000	1000	12	0.265	0.027	0.153	0.022	0.040	0.012
WaldDiag,MM3	1000	1000	12	0.239	0.026	0.140	0.022	0.027	0.010
WaldDiag,RS2	1000	1000	12	0.246	0.027	0.149	0.022	0.034	0.011
Pearson,MM3	1000	1000	12	0.364	0.030	0.260	0.027	0.103	0.019
Pearson,RS2	1000	1000	12	0.365	0.030	0.265	0.027	0.127	0.021
3F 15V									
Wald	1000	1000	21	0.568	0.031	0.417	0.031	0.197	0.025
WaldVCF	1000	1000	21	0.338	0.029	0.205	0.025	0.062	0.015
WaldDiag,MM3	1000	1000	21	0.300	0.028	0.175	0.024	0.049	0.013
WaldDiag,RS2	1000	1000	21	0.305	0.029	0.188	0.024	0.057	0.014
Pearson,MM3	1000	1000	21	0.505	0.031	0.372	0.030	0.176	0.024
Pearson,RS2	1000	1000	21	0.509	0.031	0.385	0.030	0.195	0.025

Power ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	2	0.833	0.023	0.748	0.027	0.540	0.031
WaldVCF	1000	1000	2	0.828	0.023	0.742	0.027	0.531	0.031
WaldDiag,MM3	1000	1000	2	0.693	0.029	0.571	0.031	0.295	0.028
WaldDiag,RS2	1000	1000	2	0.693	0.029	0.572	0.031	0.317	0.029
Pearson,MM3	1000	1000	2	0.885	0.020	0.810	0.024	0.638	0.030
Pearson,RS2	1000	1000	2	0.885	0.020	0.813	0.024	0.647	0.030
1F 8V									
Wald	1000	1000	1	1.000	0.000	1.000	0.000	0.997	0.003
WaldVCF	1000	1000	1	1.000	0.000	1.000	0.000	0.996	0.004
WaldDiag,MM3	1000	1000	1	1.000	0.000	1.000	0.000	0.997	0.003
WaldDiag,RS2	1000	1000	1	1.000	0.000	1.000	0.000	0.997	0.003
Pearson,MM3	1000	1000	1	1.000	0.000	0.999	0.002	0.993	0.005
Pearson,RS2	1000	1000	1	1.000	0.000	0.999	0.002	0.995	0.004
1F 15V									
Wald	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V									
Wald	1000	1000	6	0.548	0.031	0.420	0.031	0.211	0.025
WaldVCF	1000	1000	6	0.474	0.031	0.339	0.029	0.155	0.022
WaldDiag,MM3	1000	1000	6	0.506	0.031	0.380	0.030	0.161	0.023
WaldDiag,RS2	1000	1000	6	0.507	0.031	0.388	0.030	0.190	0.024
Pearson,MM3	1000	1000	6	0.694	0.029	0.555	0.031	0.334	0.029
Pearson,RS2	1000	1000	6	0.695	0.029	0.574	0.031	0.365	0.030
3F 15V									
Wald	1000	1000	27	0.730	0.028	0.601	0.030	0.334	0.029
WaldVCF	1000	1000	27	0.610	0.030	0.467	0.031	0.215	0.025
WaldDiag,MM3	1000	1000	27	0.696	0.029	0.575	0.031	0.311	0.029
WaldDiag,RS2	1000	1000	27	0.702	0.028	0.583	0.031	0.346	0.029
Pearson,MM3	1000	1000	27	0.870	0.021	0.794	0.025	0.586	0.031
Pearson,RS2	1000	1000	27	0.871	0.021	0.800	0.025	0.610	0.030

Power ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	1	0.958	0.012	0.925	0.016	0.771	0.026
WaldVCF	1000	1000	1	0.958	0.012	0.922	0.017	0.761	0.026
WaldDiag,MM3	1000	1000	1	0.893	0.019	0.805	0.025	0.543	0.031
WaldDiag,RS2	1000	1000	1	0.893	0.019	0.807	0.024	0.562	0.031
Pearson,MM3	1000	1000	1	0.976	0.009	0.945	0.014	0.853	0.022
Pearson,RS2	1000	1000	1	0.976	0.009	0.947	0.014	0.863	0.021
1F 8V									
Wald	1000	1000	4	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	4	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	4	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	4	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	4	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	4	1.000	0.000	1.000	0.000	1.000	0.000
1F 15V									
Wald	1000	1000	26	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	26	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	26	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	26	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	26	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	26	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V									
Wald	1000	1000	10	0.649	0.030	0.525	0.031	0.301	0.028
WaldVCF	1000	1000	10	0.593	0.030	0.463	0.031	0.242	0.027
WaldDiag,MM3	1000	1000	10	0.673	0.029	0.559	0.031	0.315	0.029
WaldDiag,RS2	1000	1000	10	0.675	0.029	0.569	0.031	0.346	0.029
Pearson,MM3	1000	1000	10	0.801	0.025	0.723	0.028	0.528	0.031
Pearson,RS2	1000	1000	10	0.802	0.025	0.733	0.027	0.552	0.031
3F 15V									
Wald	1000	1000	40	0.865	0.021	0.791	0.025	0.563	0.031
WaldVCF	1000	1000	40	0.822	0.024	0.719	0.028	0.468	0.031
WaldDiag,MM3	1000	1000	40	0.889	0.019	0.818	0.024	0.622	0.030
WaldDiag,RS2	1000	1000	40	0.891	0.019	0.826	0.023	0.649	0.030
Pearson,MM3	1000	1000	40	0.961	0.012	0.936	0.015	0.865	0.021
Pearson,RS2	1000	1000	40	0.961	0.012	0.939	0.015	0.881	0.020

Strat-clust sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	5	0.159	0.023	0.097	0.018	0.029	0.010	
WaldVCF	1000	1000	5	0.122	0.020	0.060	0.015	0.014	0.007	
WaldDiag,MM3	1000	1000	5	0.056	0.014	0.019	0.008	0.000	0.000	
WaldDiag,RS2	1000	1000	5	0.056	0.014	0.020	0.009	0.001	0.002	
Pearson,MM3	1000	1000	5	0.103	0.019	0.049	0.013	0.008	0.006	
Pearson,RS2	1000	1000	5	0.099	0.019	0.050	0.014	0.011	0.006	
1F 8V										
Wald	1000	1000	1	0.274	0.028	0.174	0.023	0.063	0.015	
WaldVCF	1000	1000	1	0.102	0.019	0.054	0.014	0.011	0.006	
WaldDiag,MM3	1000	1000	1	0.064	0.015	0.014	0.007	0.002	0.003	
WaldDiag,RS2	1000	1000	1	0.065	0.015	0.016	0.008	0.003	0.003	
Pearson,MM3	1000	1000	1	0.119	0.020	0.059	0.015	0.009	0.006	
Pearson,RS2	1000	1000	1	0.119	0.020	0.063	0.015	0.015	0.008	
1F 15V										
Wald	1000	1000	10	0.789	0.025	0.711	0.028	0.496	0.031	
WaldVCF	1000	1000	10	0.155	0.022	0.060	0.015	0.013	0.007	
WaldDiag,MM3	1000	1000	10	0.051	0.014	0.015	0.008	0.000	0.000	
WaldDiag,RS2	1000	1000	10	0.052	0.014	0.016	0.008	0.000	0.000	
Pearson,MM3	1000	1000	10	0.116	0.020	0.058	0.014	0.008	0.006	
Pearson,RS2	1000	1000	10	0.119	0.020	0.064	0.015	0.013	0.007	
2F 10V										
Wald	1000	1000	10	0.305	0.029	0.199	0.025	0.084	0.017	
WaldVCF	1000	1000	10	0.136	0.021	0.074	0.016	0.013	0.007	
WaldDiag,MM3	1000	1000	10	0.044	0.013	0.018	0.008	0.001	0.002	
WaldDiag,RS2	1000	1000	10	0.045	0.013	0.020	0.009	0.002	0.003	
Pearson,MM3	1000	1000	10	0.099	0.019	0.045	0.013	0.005	0.004	
Pearson,RS2	1000	1000	10	0.099	0.019	0.048	0.013	0.008	0.006	
3F 15V										
Wald	1000	1000	35	0.578	0.031	0.448	0.031	0.186	0.024	
WaldVCF	1000	1000	35	0.167	0.023	0.077	0.017	0.009	0.006	
WaldDiag,MM3	1000	1000	35	0.046	0.013	0.013	0.007	0.002	0.003	
WaldDiag,RS2	1000	1000	35	0.047	0.013	0.014	0.007	0.002	0.003	
Pearson,MM3	1000	1000	35	0.129	0.021	0.060	0.015	0.012	0.007	
Pearson,RS2	1000	1000	35	0.130	0.021	0.064	0.015	0.012	0.007	

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	0	0.127	0.021	0.066	0.015	0.014	0.007
WaldVCF	1000	1000	0	0.114	0.020	0.055	0.014	0.011	0.006
WaldDiag,MM3	1000	1000	0	0.063	0.015	0.026	0.010	0.002	0.003
WaldDiag,RS2	1000	1000	0	0.063	0.015	0.027	0.010	0.003	0.003
Pearson,MM3	1000	1000	0	0.110	0.019	0.056	0.014	0.007	0.005
Pearson,RS2	1000	1000	0	0.109	0.019	0.056	0.014	0.011	0.006
1F 8V									
Wald	1000	1000	1	0.196	0.025	0.128	0.021	0.035	0.011
WaldVCF	1000	1000	1	0.131	0.021	0.068	0.016	0.017	0.008
WaldDiag,MM3	1000	1000	1	0.087	0.017	0.040	0.012	0.006	0.005
WaldDiag,RS2	1000	1000	1	0.087	0.017	0.044	0.013	0.007	0.005
Pearson,MM3	1000	1000	1	0.117	0.020	0.064	0.015	0.017	0.008
Pearson,RS2	1000	1000	1	0.119	0.020	0.069	0.016	0.020	0.009
1F 15V									
Wald	1000	1000	15	0.427	0.031	0.302	0.028	0.119	0.020
WaldVCF	1000	1000	15	0.154	0.022	0.075	0.016	0.021	0.009
WaldDiag,MM3	1000	1000	15	0.072	0.016	0.033	0.011	0.003	0.003
WaldDiag,RS2	1000	1000	15	0.072	0.016	0.036	0.012	0.004	0.004
Pearson,MM3	1000	1000	15	0.123	0.020	0.067	0.015	0.020	0.009
Pearson,RS2	1000	1000	15	0.123	0.020	0.068	0.016	0.025	0.010
2F 10V									
Wald	1000	1000	11	0.204	0.025	0.126	0.021	0.034	0.011
WaldVCF	1000	1000	11	0.144	0.022	0.076	0.016	0.014	0.007
WaldDiag,MM3	1000	1000	11	0.062	0.015	0.026	0.010	0.005	0.004
WaldDiag,RS2	1000	1000	11	0.065	0.015	0.030	0.011	0.007	0.005
Pearson,MM3	1000	1000	11	0.118	0.020	0.057	0.014	0.012	0.007
Pearson,RS2	1000	1000	11	0.118	0.020	0.065	0.015	0.014	0.007
3F 15V									
Wald	1000	1000	36	0.352	0.030	0.249	0.027	0.104	0.019
WaldVCF	1000	1000	36	0.200	0.025	0.126	0.021	0.040	0.012
WaldDiag,MM3	1000	1000	36	0.106	0.019	0.046	0.013	0.005	0.004
WaldDiag,RS2	1000	1000	36	0.108	0.019	0.052	0.014	0.006	0.005
Pearson,MM3	1000	1000	36	0.146	0.022	0.085	0.017	0.020	0.009
Pearson,RS2	1000	1000	36	0.148	0.022	0.088	0.018	0.024	0.009

Type I errors ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	2	0.120	0.020	0.068	0.016	0.021	0.009	
WaldVCF	1000	1000	2	0.115	0.020	0.059	0.015	0.014	0.007	
WaldDiag,MM3	1000	1000	2	0.088	0.018	0.037	0.012	0.005	0.004	
WaldDiag,RS2	1000	1000	2	0.087	0.017	0.039	0.012	0.005	0.004	
Pearson,MM3	1000	1000	2	0.114	0.020	0.061	0.015	0.016	0.008	
Pearson,RS2	1000	1000	2	0.114	0.020	0.065	0.015	0.018	0.008	
1F 8V										
Wald	1000	1000	7	0.141	0.022	0.078	0.017	0.021	0.009	
WaldVCF	1000	1000	7	0.108	0.019	0.053	0.014	0.014	0.007	
WaldDiag,MM3	1000	1000	7	0.079	0.017	0.041	0.012	0.008	0.006	
WaldDiag,RS2	1000	1000	7	0.080	0.017	0.042	0.012	0.009	0.006	
Pearson,MM3	1000	1000	7	0.129	0.021	0.063	0.015	0.018	0.008	
Pearson,RS2	1000	1000	7	0.130	0.021	0.066	0.015	0.019	0.008	
1F 15V										
Wald	1000	1000	22	0.263	0.027	0.176	0.024	0.055	0.014	
WaldVCF	1000	1000	22	0.161	0.023	0.088	0.018	0.021	0.009	
WaldDiag,MM3	1000	1000	22	0.111	0.019	0.054	0.014	0.009	0.006	
WaldDiag,RS2	1000	1000	22	0.111	0.019	0.056	0.014	0.011	0.006	
Pearson,MM3	1000	1000	22	0.166	0.023	0.094	0.018	0.019	0.008	
Pearson,RS2	1000	1000	22	0.167	0.023	0.096	0.018	0.023	0.009	
2F 10V										
Wald	1000	1000	19	0.181	0.024	0.104	0.019	0.029	0.010	
WaldVCF	1000	1000	19	0.144	0.022	0.085	0.017	0.015	0.008	
WaldDiag,MM3	1000	1000	19	0.103	0.019	0.052	0.014	0.008	0.006	
WaldDiag,RS2	1000	1000	19	0.103	0.019	0.055	0.014	0.009	0.006	
Pearson,MM3	1000	1000	19	0.138	0.021	0.085	0.017	0.016	0.008	
Pearson,RS2	1000	1000	19	0.138	0.021	0.087	0.017	0.020	0.009	
3F 15V										
Wald	1000	1000	43	0.251	0.027	0.154	0.022	0.048	0.013	
WaldVCF	1000	1000	43	0.174	0.023	0.091	0.018	0.028	0.010	
WaldDiag,MM3	1000	1000	43	0.091	0.018	0.043	0.013	0.012	0.007	
WaldDiag,RS2	1000	1000	43	0.094	0.018	0.046	0.013	0.015	0.008	
Pearson,MM3	1000	1000	43	0.140	0.022	0.068	0.016	0.012	0.007	
Pearson,RS2	1000	1000	43	0.143	0.022	0.072	0.016	0.017	0.008	

Type I errors ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	0	0.124	0.020	0.064	0.015	0.013	0.007	
WaldVCF	1000	1000	0	0.120	0.020	0.060	0.015	0.012	0.007	
WaldDiag,MM3	1000	1000	0	0.103	0.019	0.042	0.012	0.010	0.006	
WaldDiag,RS2	1000	1000	0	0.103	0.019	0.043	0.013	0.010	0.006	
Pearson,MM3	1000	1000	0	0.113	0.020	0.055	0.014	0.014	0.007	
Pearson,RS2	1000	1000	0	0.113	0.020	0.057	0.014	0.017	0.008	
1F 8V										
Wald	1000	1000	5	0.136	0.021	0.077	0.017	0.015	0.008	
WaldVCF	1000	1000	5	0.114	0.020	0.066	0.015	0.012	0.007	
WaldDiag,MM3	1000	1000	5	0.101	0.019	0.047	0.013	0.008	0.006	
WaldDiag,RS2	1000	1000	5	0.101	0.019	0.048	0.013	0.009	0.006	
Pearson,MM3	1000	1000	5	0.128	0.021	0.072	0.016	0.020	0.009	
Pearson,RS2	1000	1000	5	0.128	0.021	0.074	0.016	0.022	0.009	
1F 15V										
Wald	1000	1000	17	0.227	0.026	0.128	0.021	0.044	0.013	
WaldVCF	1000	1000	17	0.150	0.022	0.083	0.017	0.024	0.009	
WaldDiag,MM3	1000	1000	17	0.119	0.020	0.065	0.015	0.013	0.007	
WaldDiag,RS2	1000	1000	17	0.119	0.020	0.070	0.016	0.016	0.008	
Pearson,MM3	1000	1000	17	0.180	0.024	0.102	0.019	0.025	0.010	
Pearson,RS2	1000	1000	17	0.181	0.024	0.108	0.019	0.034	0.011	
2F 10V										
Wald	1000	1000	26	0.172	0.023	0.090	0.018	0.018	0.008	
WaldVCF	1000	1000	26	0.152	0.022	0.074	0.016	0.013	0.007	
WaldDiag,MM3	1000	1000	26	0.099	0.019	0.054	0.014	0.008	0.006	
WaldDiag,RS2	1000	1000	26	0.100	0.019	0.058	0.014	0.011	0.006	
Pearson,MM3	1000	1000	26	0.133	0.021	0.075	0.016	0.016	0.008	
Pearson,RS2	1000	1000	26	0.133	0.021	0.077	0.017	0.020	0.009	
3F 15V										
Wald	1000	1000	59	0.211	0.025	0.124	0.020	0.034	0.011	
WaldVCF	1000	1000	59	0.158	0.023	0.080	0.017	0.023	0.009	
WaldDiag,MM3	1000	1000	59	0.117	0.020	0.058	0.014	0.017	0.008	
WaldDiag,RS2	1000	1000	59	0.118	0.020	0.061	0.015	0.019	0.008	
Pearson,MM3	1000	1000	59	0.154	0.022	0.081	0.017	0.016	0.008	
Pearson,RS2	1000	1000	59	0.157	0.023	0.084	0.017	0.022	0.009	

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	1	0.350	0.030	0.243	0.027	0.107	0.019
WaldVCF	1000	1000	1	0.307	0.029	0.199	0.025	0.075	0.016
WaldDiag,MM3	1000	1000	1	0.144	0.022	0.061	0.015	0.013	0.007
WaldDiag,RS2	1000	1000	1	0.144	0.022	0.062	0.015	0.015	0.008
Pearson,MM3	1000	1000	1	0.331	0.029	0.225	0.026	0.077	0.017
Pearson,RS2	1000	1000	1	0.331	0.029	0.230	0.026	0.090	0.018
1F 8V									
Wald	1000	1000	2	0.837	0.023	0.761	0.026	0.575	0.031
WaldVCF	1000	1000	2	0.647	0.030	0.495	0.031	0.209	0.025
WaldDiag,MM3	1000	1000	2	0.654	0.029	0.508	0.031	0.236	0.026
WaldDiag,RS2	1000	1000	2	0.655	0.029	0.513	0.031	0.267	0.027
Pearson,MM3	1000	1000	2	0.671	0.029	0.529	0.031	0.288	0.028
Pearson,RS2	1000	1000	2	0.674	0.029	0.545	0.031	0.309	0.029
1F 15V									
Wald	1000	1000	12	0.989	0.006	0.983	0.008	0.950	0.014
WaldVCF	1000	1000	12	0.667	0.029	0.495	0.031	0.179	0.024
WaldDiag,MM3	1000	1000	12	0.903	0.018	0.803	0.025	0.569	0.031
WaldDiag,RS2	1000	1000	12	0.903	0.018	0.813	0.024	0.595	0.030
Pearson,MM3	1000	1000	12	0.914	0.017	0.839	0.023	0.630	0.030
Pearson,RS2	1000	1000	12	0.915	0.017	0.845	0.022	0.648	0.030
2F 10V									
Wald	1000	1000	7	0.458	0.031	0.324	0.029	0.163	0.023
WaldVCF	1000	1000	7	0.201	0.025	0.117	0.020	0.029	0.010
WaldDiag,MM3	1000	1000	7	0.116	0.020	0.043	0.013	0.005	0.004
WaldDiag,RS2	1000	1000	7	0.118	0.020	0.049	0.013	0.006	0.005
Pearson,MM3	1000	1000	7	0.252	0.027	0.148	0.022	0.038	0.012
Pearson,RS2	1000	1000	7	0.254	0.027	0.157	0.023	0.048	0.013
3F 15V									
Wald	1000	1000	27	0.696	0.029	0.582	0.031	0.318	0.029
WaldVCF	1000	1000	27	0.234	0.026	0.132	0.021	0.028	0.010
WaldDiag,MM3	1000	1000	27	0.102	0.019	0.048	0.013	0.006	0.005
WaldDiag,RS2	1000	1000	27	0.103	0.019	0.051	0.014	0.008	0.006
Pearson,MM3	1000	1000	27	0.283	0.028	0.178	0.024	0.053	0.014
Pearson,RS2	1000	1000	27	0.286	0.028	0.185	0.024	0.067	0.015

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	1	0.578	0.031	0.457	0.031	0.249	0.027
WaldVCF	1000	1000	1	0.567	0.031	0.439	0.031	0.221	0.026
WaldDiag,MM3	1000	1000	1	0.386	0.030	0.261	0.027	0.075	0.016
WaldDiag,RS2	1000	1000	1	0.384	0.030	0.264	0.027	0.087	0.017
Pearson,MM3	1000	1000	1	0.627	0.030	0.522	0.031	0.307	0.029
Pearson,RS2	1000	1000	1	0.626	0.030	0.523	0.031	0.317	0.029
1F 8V									
Wald	1000	1000	4	0.984	0.008	0.961	0.012	0.888	0.020
WaldVCF	1000	1000	4	0.965	0.011	0.933	0.015	0.758	0.027
WaldDiag,MM3	1000	1000	4	0.971	0.010	0.945	0.014	0.790	0.025
WaldDiag,RS2	1000	1000	4	0.971	0.010	0.947	0.014	0.813	0.024
Pearson,MM3	1000	1000	4	0.957	0.013	0.917	0.017	0.769	0.026
Pearson,RS2	1000	1000	4	0.957	0.013	0.919	0.017	0.788	0.025
1F 15V									
Wald	1000	1000	17	1.000	0.000	0.999	0.002	0.991	0.006
WaldVCF	1000	1000	17	0.987	0.007	0.965	0.011	0.844	0.022
WaldDiag,MM3	1000	1000	17	1.000	0.000	0.998	0.003	0.994	0.005
WaldDiag,RS2	1000	1000	17	1.000	0.000	0.998	0.003	0.996	0.004
Pearson,MM3	1000	1000	17	1.000	0.000	0.999	0.002	0.987	0.007
Pearson,RS2	1000	1000	17	1.000	0.000	0.999	0.002	0.990	0.006
2F 10V									
Wald	1000	1000	11	0.431	0.031	0.301	0.028	0.127	0.021
WaldVCF	1000	1000	11	0.307	0.029	0.180	0.024	0.068	0.016
WaldDiag,MM3	1000	1000	11	0.268	0.027	0.146	0.022	0.048	0.013
WaldDiag,RS2	1000	1000	11	0.272	0.028	0.152	0.022	0.054	0.014
Pearson,MM3	1000	1000	11	0.406	0.030	0.287	0.028	0.128	0.021
Pearson,RS2	1000	1000	11	0.407	0.030	0.300	0.028	0.148	0.022
3F 15V									
Wald	1000	1000	38	0.619	0.030	0.494	0.031	0.243	0.027
WaldVCF	1000	1000	38	0.409	0.030	0.261	0.027	0.100	0.019
WaldDiag,MM3	1000	1000	38	0.383	0.030	0.252	0.027	0.077	0.017
WaldDiag,RS2	1000	1000	38	0.384	0.030	0.264	0.027	0.082	0.017
Pearson,MM3	1000	1000	38	0.617	0.030	0.480	0.031	0.271	0.028
Pearson,RS2	1000	1000	38	0.620	0.030	0.489	0.031	0.294	0.028

Power ($n = 2000$)

Name	No. repl.	Converged	Rank def.	Rejection rate						
				10%	crit10	5%	crit5	1%	crit1	
1F 5V										
Wald	1000	1000	0	0.821	0.024	0.722	0.028	0.484	0.031	
WaldVCF	1000	1000	0	0.813	0.024	0.716	0.028	0.474	0.031	
WaldDiag,MM3	1000	1000	0	0.663	0.029	0.522	0.031	0.264	0.027	
WaldDiag,RS2	1000	1000	0	0.661	0.029	0.530	0.031	0.274	0.028	
Pearson,MM3	1000	1000	0	0.863	0.021	0.793	0.025	0.589	0.030	
Pearson,RS2	1000	1000	0	0.863	0.021	0.795	0.025	0.609	0.030	
1F 8V										
Wald	1000	1000	1	1.000	0.000	0.999	0.002	0.998	0.003	
WaldVCF	1000	1000	1	1.000	0.000	0.999	0.002	0.998	0.003	
WaldDiag,MM3	1000	1000	1	1.000	0.000	0.999	0.002	0.998	0.003	
WaldDiag,RS2	1000	1000	1	1.000	0.000	0.999	0.002	0.998	0.003	
Pearson,MM3	1000	1000	1	1.000	0.000	1.000	0.000	0.992	0.006	
Pearson,RS2	1000	1000	1	1.000	0.000	1.000	0.000	0.995	0.004	
1F 15V										
Wald	1000	1000	19	1.000	0.000	1.000	0.000	1.000	0.000	
WaldVCF	1000	1000	19	1.000	0.000	1.000	0.000	1.000	0.000	
WaldDiag,MM3	1000	1000	19	1.000	0.000	1.000	0.000	1.000	0.000	
WaldDiag,RS2	1000	1000	19	1.000	0.000	1.000	0.000	1.000	0.000	
Pearson,MM3	1000	1000	19	1.000	0.000	1.000	0.000	1.000	0.000	
Pearson,RS2	1000	1000	19	1.000	0.000	1.000	0.000	1.000	0.000	
2F 10V										
Wald	1000	1000	9	0.533	0.031	0.385	0.030	0.193	0.024	
WaldVCF	1000	1000	9	0.448	0.031	0.312	0.029	0.137	0.021	
WaldDiag,MM3	1000	1000	9	0.525	0.031	0.382	0.030	0.158	0.023	
WaldDiag,RS2	1000	1000	9	0.527	0.031	0.389	0.030	0.183	0.024	
Pearson,MM3	1000	1000	9	0.665	0.029	0.552	0.031	0.339	0.029	
Pearson,RS2	1000	1000	9	0.665	0.029	0.556	0.031	0.370	0.030	
3F 15V										
Wald	1000	1000	38	0.750	0.027	0.635	0.030	0.360	0.030	
WaldVCF	1000	1000	38	0.652	0.030	0.497	0.031	0.238	0.026	
WaldDiag,MM3	1000	1000	38	0.726	0.028	0.597	0.030	0.324	0.029	
WaldDiag,RS2	1000	1000	38	0.729	0.028	0.605	0.030	0.349	0.030	
Pearson,MM3	1000	1000	38	0.887	0.020	0.821	0.024	0.624	0.030	
Pearson,RS2	1000	1000	38	0.889	0.019	0.827	0.023	0.659	0.029	

Power ($n = 3000$)

Name	No. repl.	Converged	Rank def.	Rejection rate					
				10%	crit10	5%	crit5	1%	crit1
1F 5V									
Wald	1000	1000	1	0.947	0.014	0.901	0.019	0.755	0.027
WaldVCF	1000	1000	1	0.947	0.014	0.900	0.019	0.750	0.027
WaldDiag,MM3	1000	1000	1	0.885	0.020	0.778	0.026	0.523	0.031
WaldDiag,RS2	1000	1000	1	0.883	0.020	0.784	0.026	0.534	0.031
Pearson,MM3	1000	1000	1	0.964	0.012	0.938	0.015	0.821	0.024
Pearson,RS2	1000	1000	1	0.964	0.012	0.938	0.015	0.832	0.023
1F 8V									
Wald	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	2	1.000	0.000	1.000	0.000	1.000	0.000
1F 15V									
Wald	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
WaldVCF	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,MM3	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
WaldDiag,RS2	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,MM3	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
Pearson,RS2	1000	1000	23	1.000	0.000	1.000	0.000	1.000	0.000
2F 10V									
Wald	1000	1000	6	0.671	0.029	0.550	0.031	0.314	0.029
WaldVCF	1000	1000	6	0.616	0.030	0.489	0.031	0.251	0.027
WaldDiag,MM3	1000	1000	6	0.730	0.028	0.609	0.030	0.348	0.030
WaldDiag,RS2	1000	1000	6	0.734	0.027	0.616	0.030	0.381	0.030
Pearson,MM3	1000	1000	6	0.845	0.022	0.765	0.026	0.556	0.031
Pearson,RS2	1000	1000	6	0.845	0.022	0.770	0.026	0.589	0.030
3F 15V									
Wald	1000	1000	34	0.887	0.020	0.811	0.024	0.598	0.030
WaldVCF	1000	1000	34	0.846	0.022	0.745	0.027	0.495	0.031
WaldDiag,MM3	1000	1000	34	0.909	0.018	0.840	0.023	0.643	0.030
WaldDiag,RS2	1000	1000	34	0.912	0.018	0.847	0.022	0.664	0.029
Pearson,MM3	1000	1000	34	0.976	0.009	0.957	0.013	0.891	0.019
Pearson,RS2	1000	1000	34	0.976	0.009	0.960	0.012	0.902	0.018