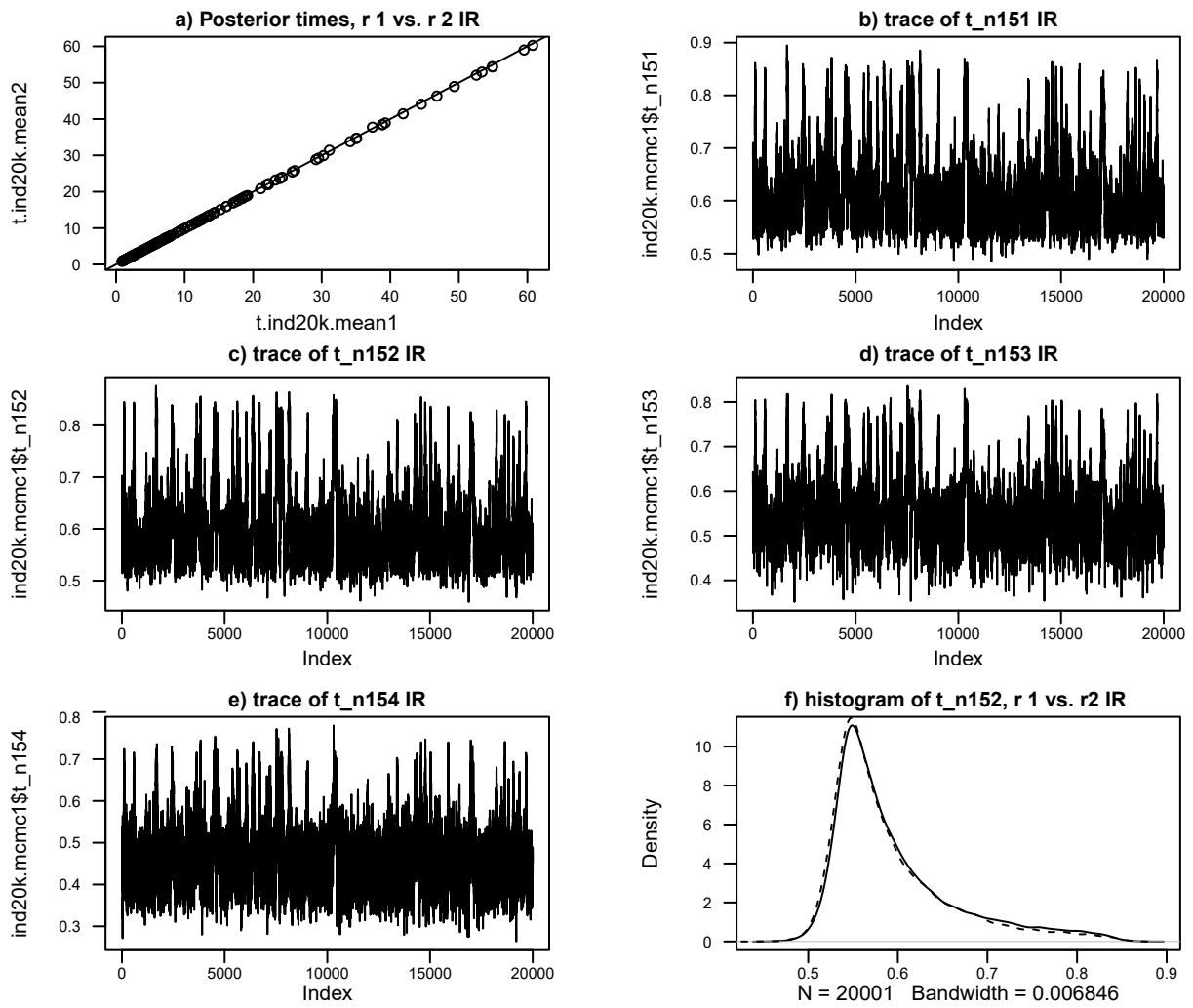


20k Independent rates



20k Autocorrelated rates

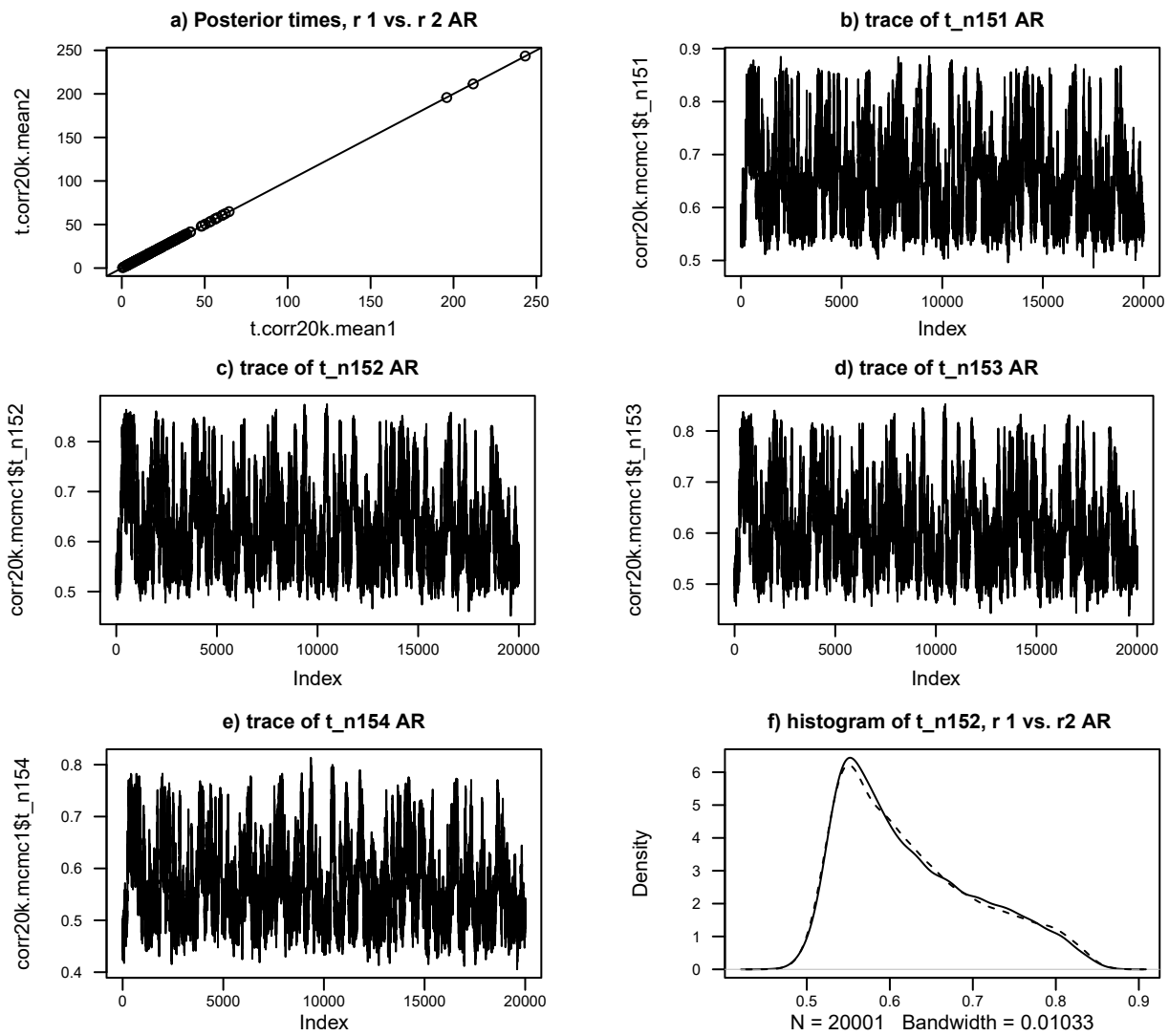
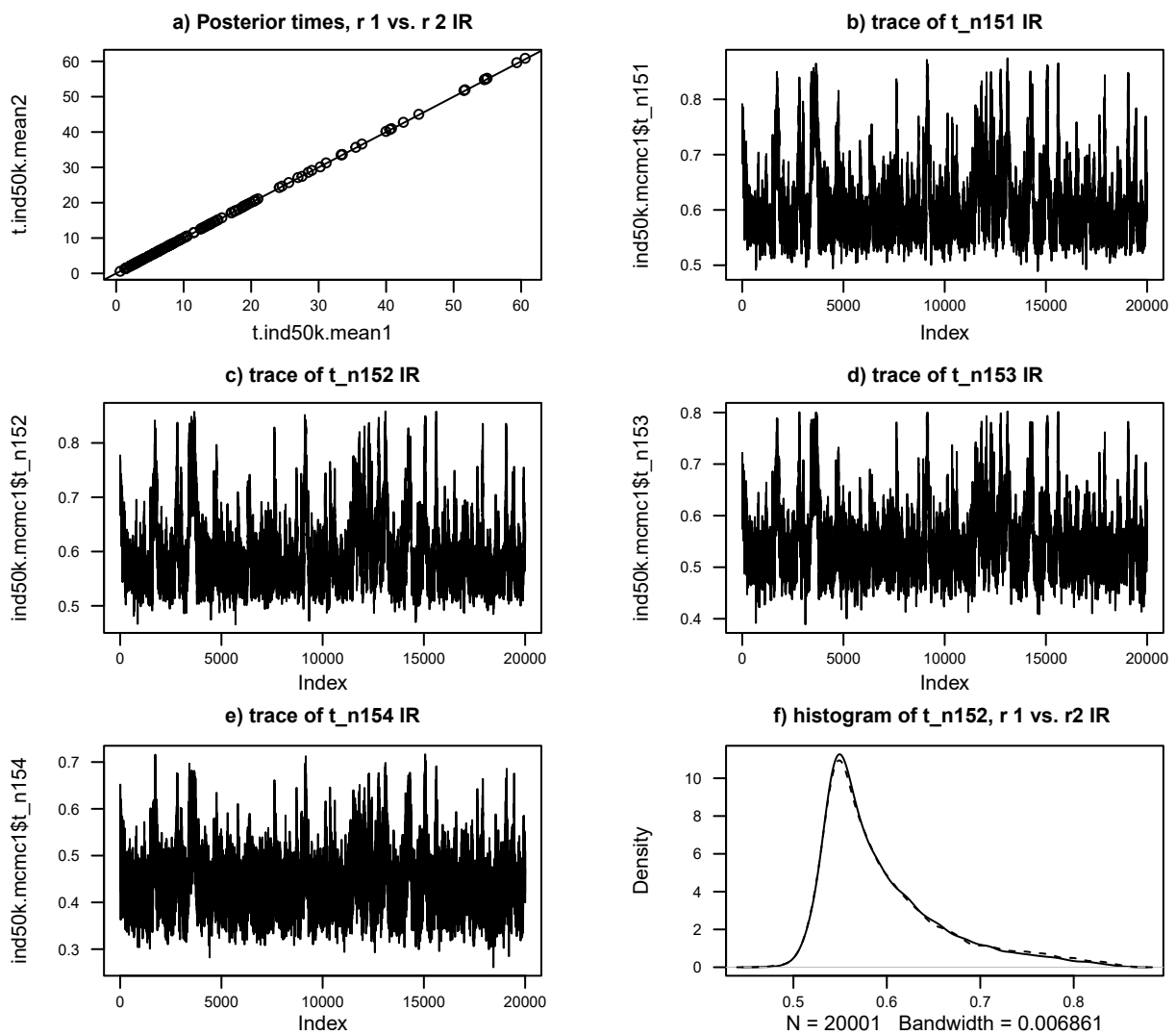


Figure: Assessing convergence of two mcmc runs using matrix 20k under both IR and AR clock models.
a) Plotting posterior means of times of both runs. The points on the y=x line indicate good convergence.
b) to e) Trace plots of the 4 deepest nodes, those harder to converge. f) Histogram of the posterior distribution of one of the deepest nodes showing both runs almost completely overlapped.

50k Independent rates



50k Autocorrelated rates

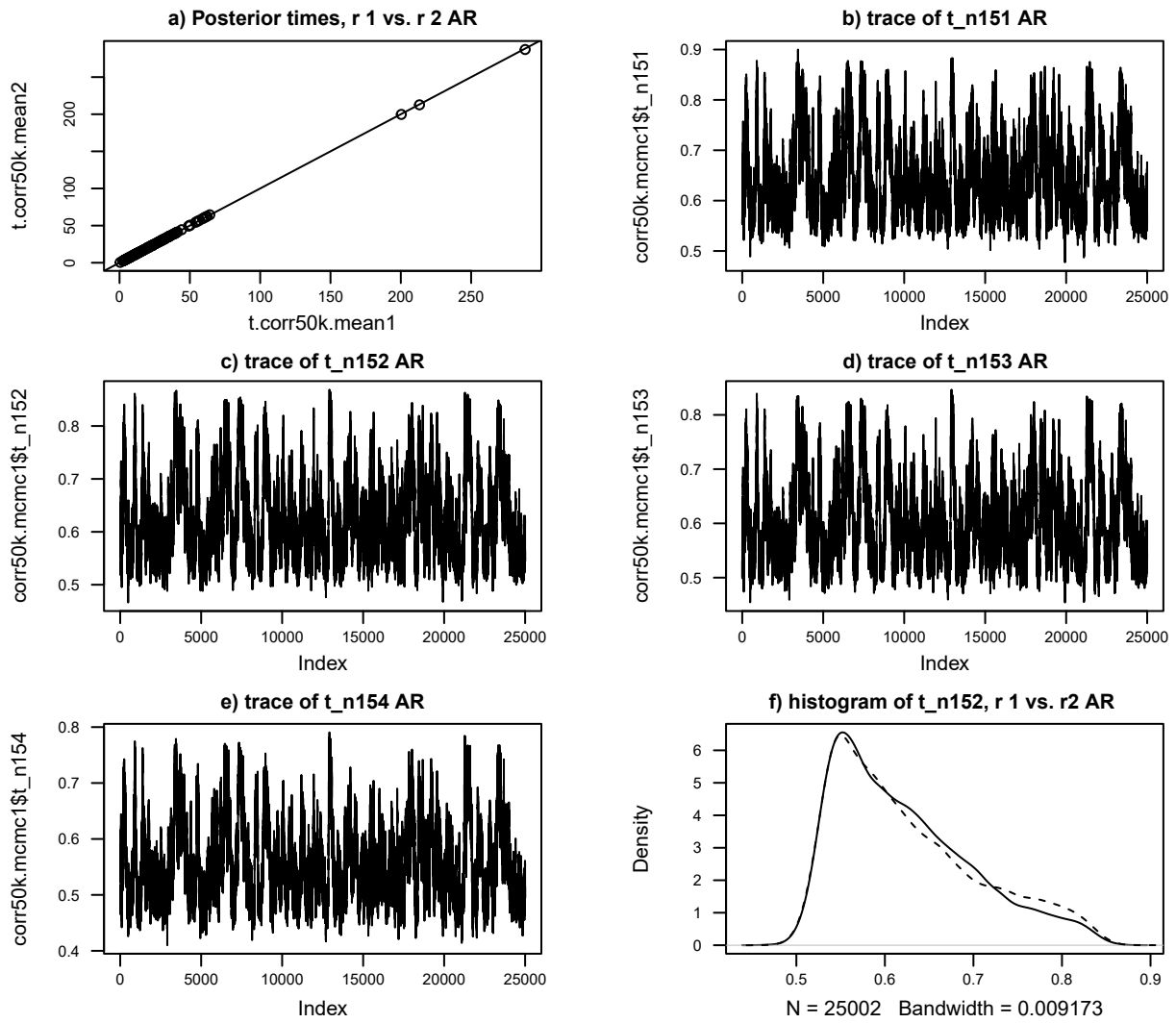
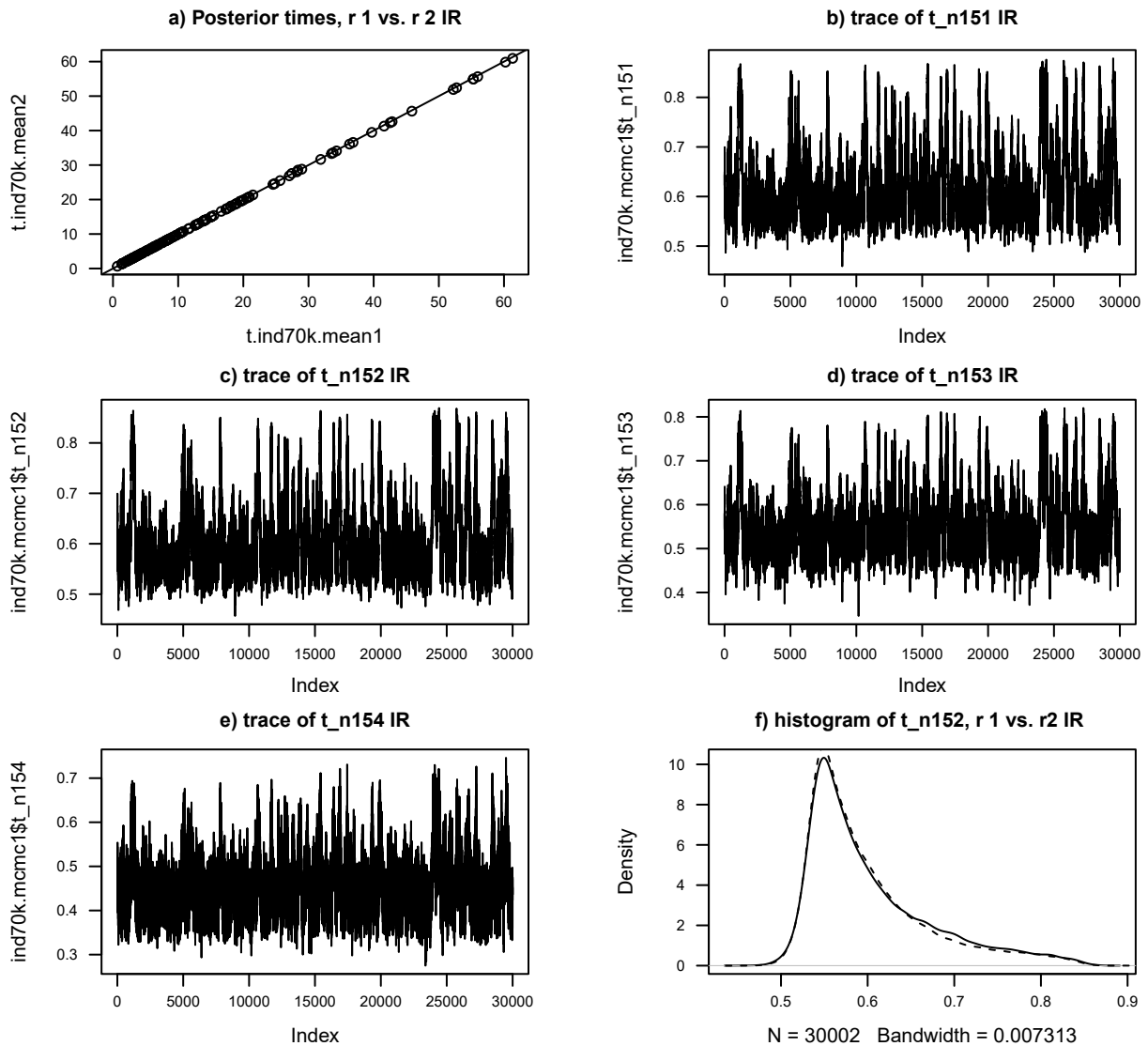


Figure: Assessing convergence of two mcmc runs using matrix 50k under both IR and AR clock models.

a) Plotting posterior means of times of both runs. The points on the $y=x$ line indicate good convergence.

b) to e) Trace plots of the 4 deepest nodes, those harder to converge. f) Histogram of the posterior distribution of one of the deepest nodes showing both runs almost completely overlapped.

70k Independent rates



70k Autocorrelated rates

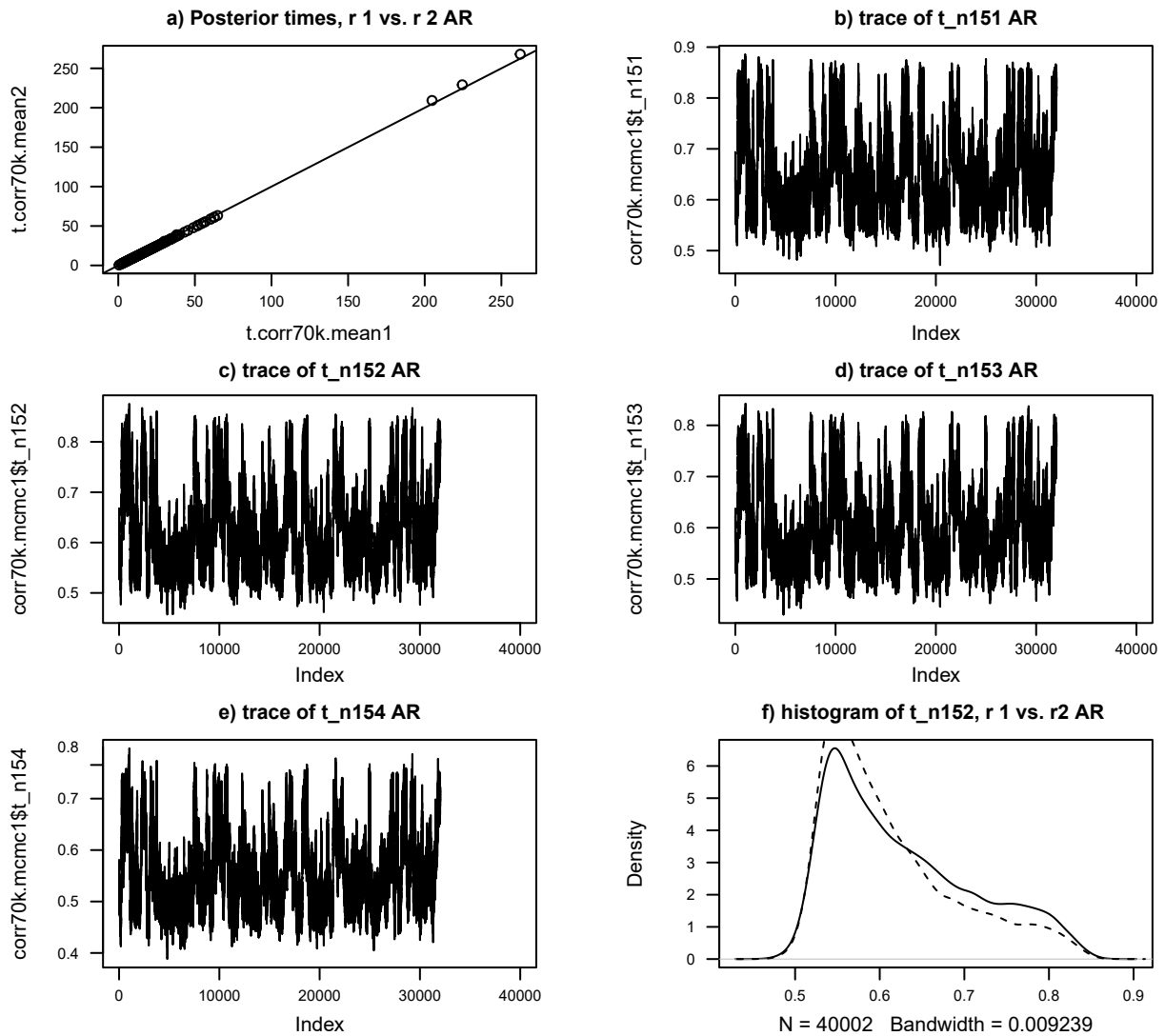
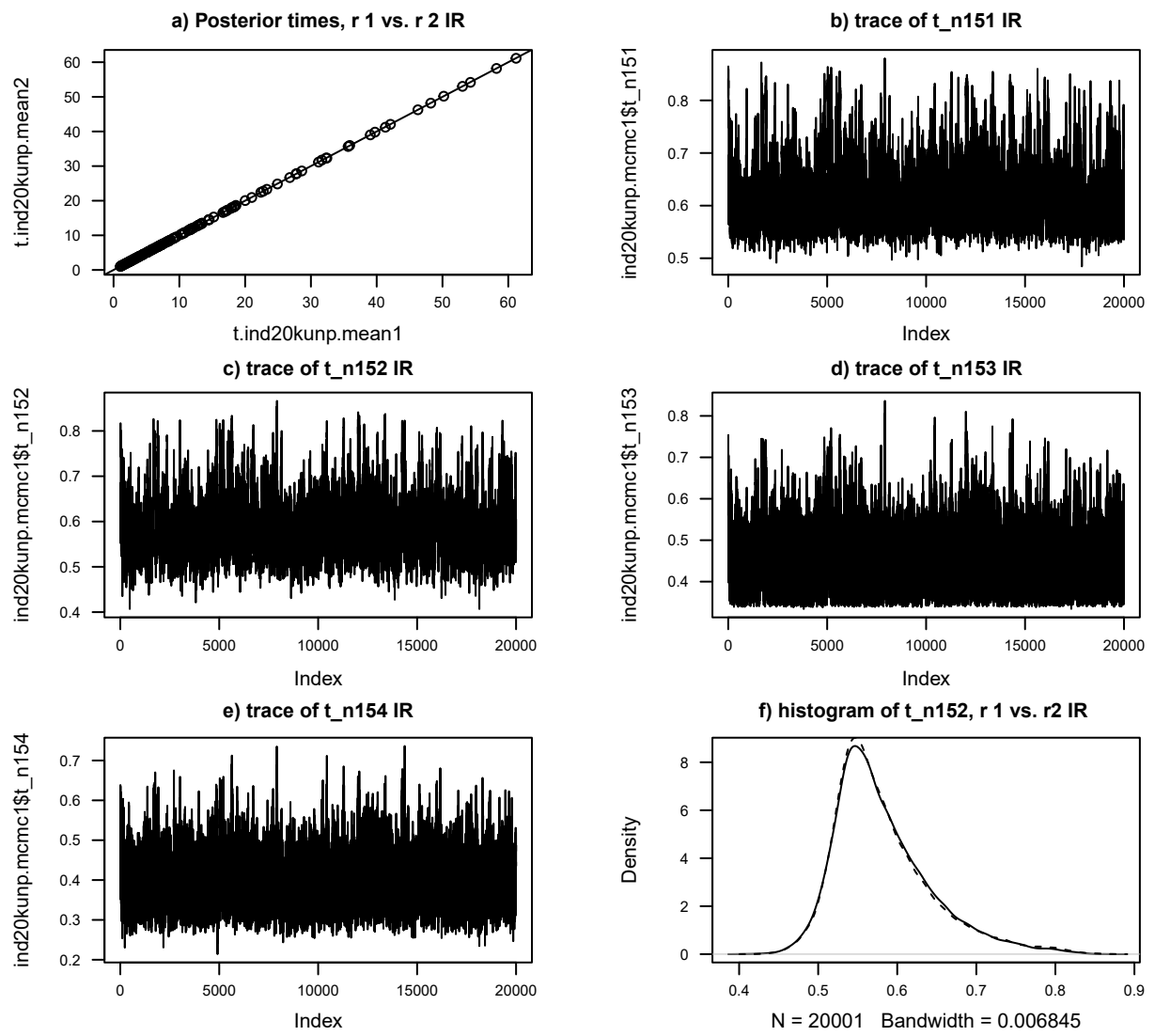


Figure: Assessing convergence of two mcmc runs using matrix 70k under both IR and AR clock models. a) Plotting posterior means of times of both runs. The points on the $y=x$ line indicate good convergence. b) to e) Trace plots of the 4 deepest nodes, those harder to converge. f) Histogram of the posterior distribution of one of the deepest nodes showing both runs almost completely overlapped.

20k unpartitioned Independent rates



20k unpartitioned Autocorrelated rates

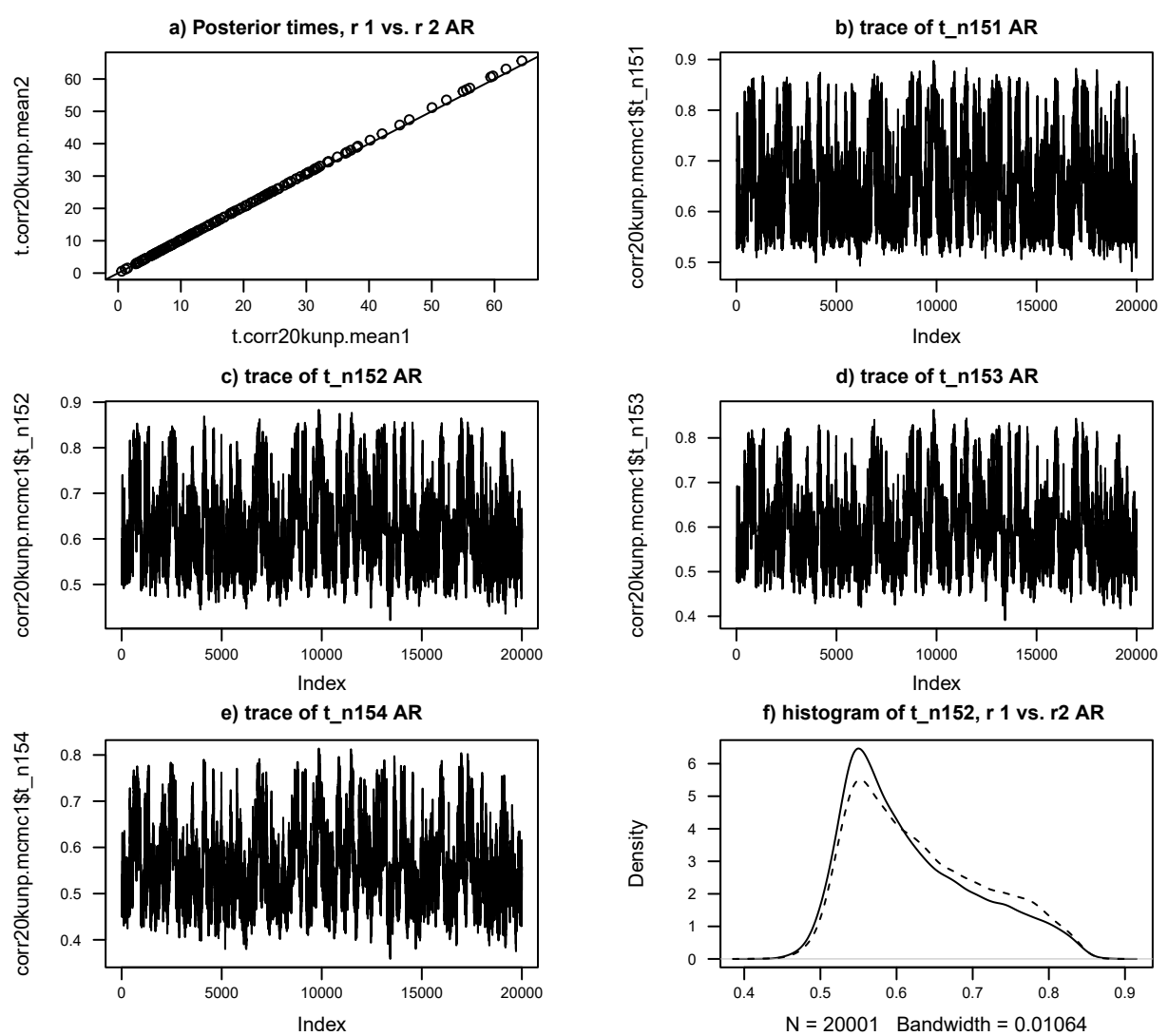


Figure: Assessing convergence of two mcmc runs using matrix 20k unpartitioned under both IR and AR clock models. a) Plotting posterior means of times of both runs. The points on the $y=x$ line indicate good convergence. b) to e) Trace plots of the 4 deepest nodes, those harder to converge. f) Histogram of the posterior distribution of one of the deepest nodes showing both runs almost completely overlapped.