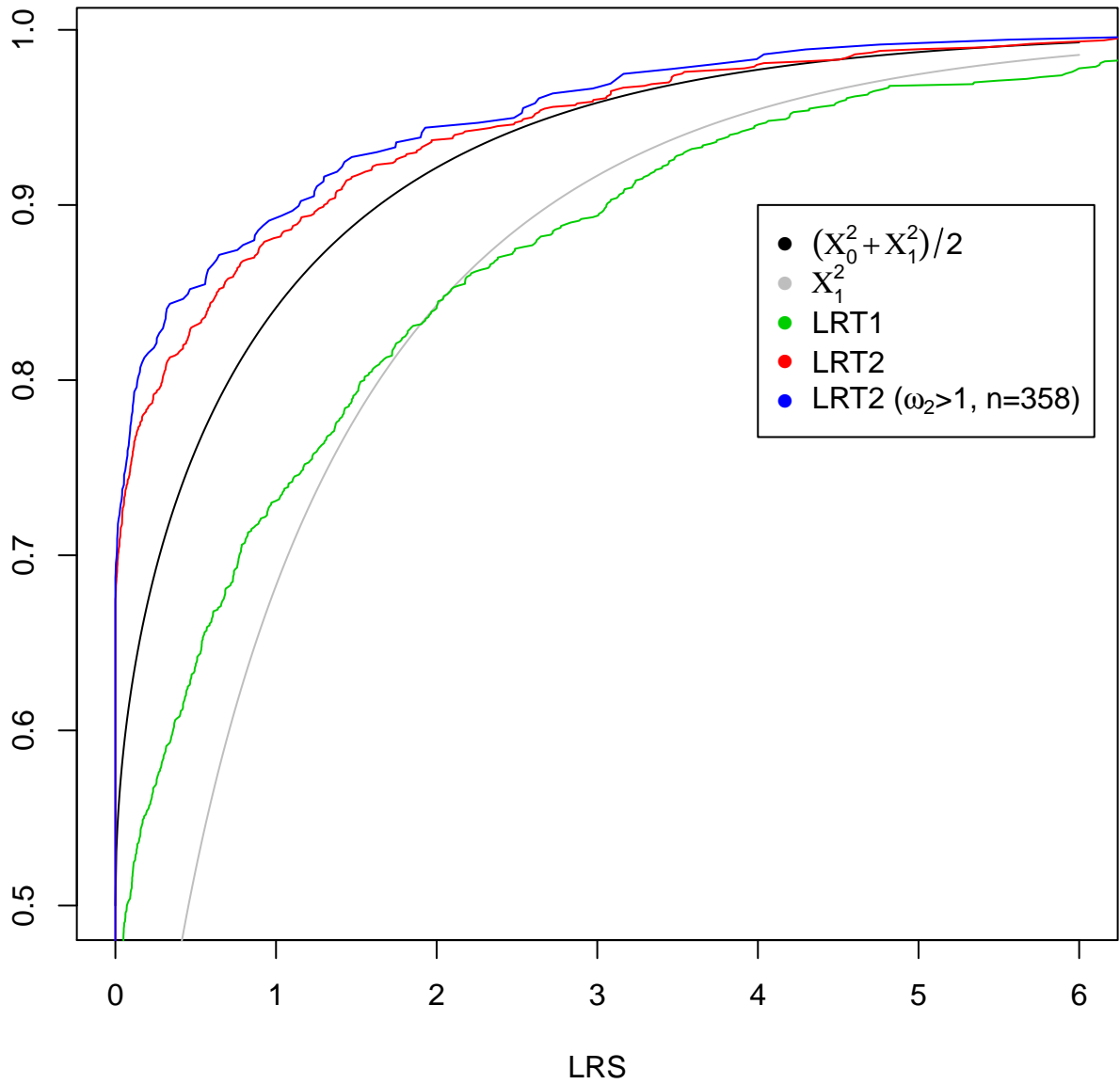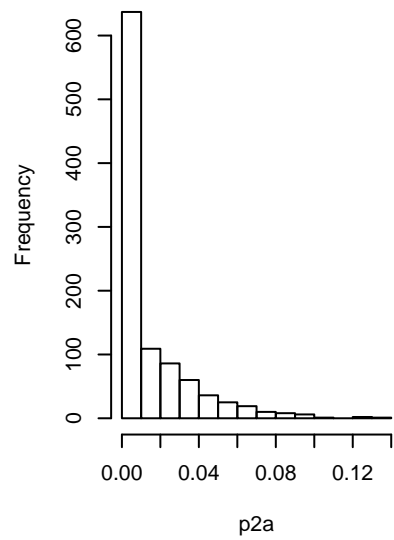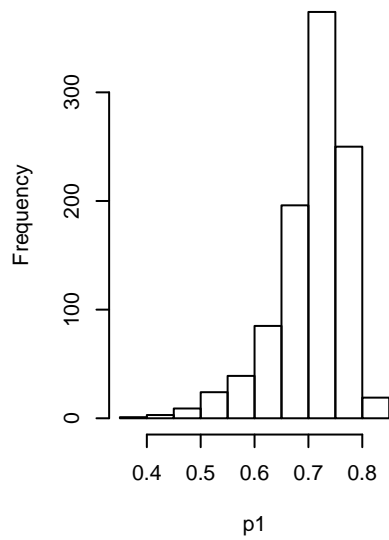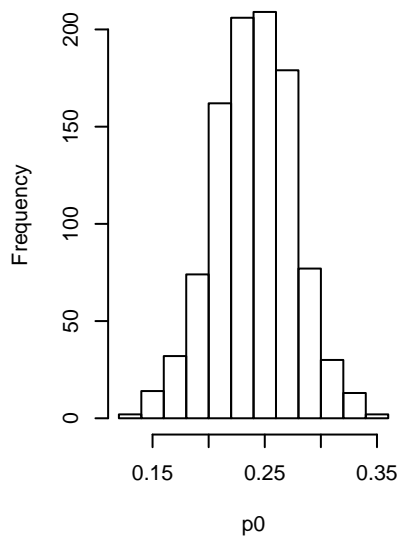- Simulation under the null for branch-site model A

- 5000 codons

- Symmetric, 8-taxon tree with one foreground branch
  The total tree length is 3.
  tree: (((A#1:0.214286,B:0.214286):0.214286,(C:0.214286,D:0.214286):0.214286):0.214286,
  ((E:0.214286,F:0.214286):0.214286,(G:0.214286,H:0.214286):0.214286):0.214286);

- $\kappa = 2.0$ $p_0 = 0.25$ $p_1 = 0.75$ $\omega_0 = 0.3$

Legend:
- $(X_0^2 + X_1^2)/2$
- X_1^2
- LRT1
- LRT2
- LRT2 ($\omega_2 > 1$, n=358)

LRS

32 $\omega_2 >= 10$