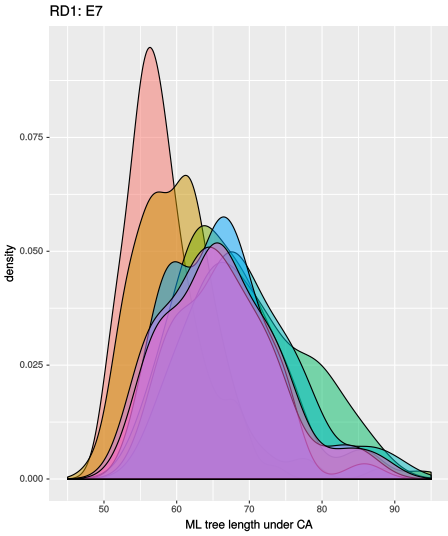
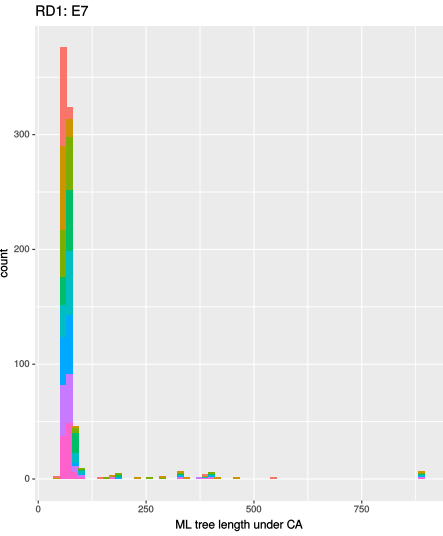


Random Permutation Test

Reduced Dataset 1: E7

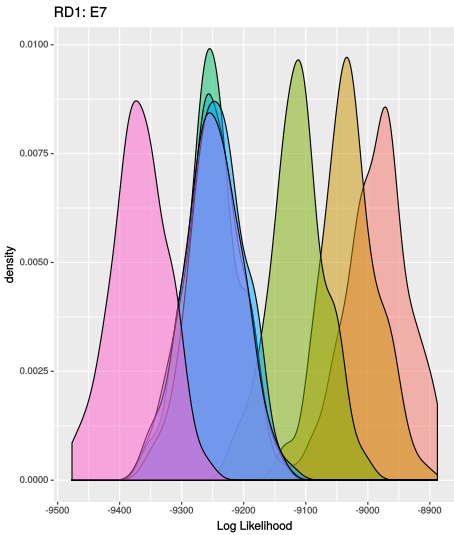
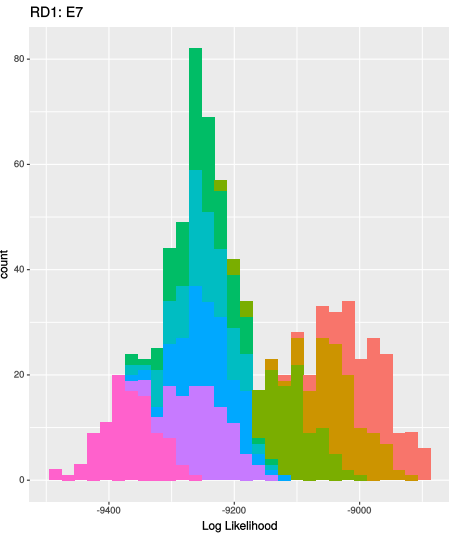
- H0: (gray-blue-yellow-red-black-green)
- H1: gray+(blue-yellow-red-black-green)
- H2: gray+blue+(yellow-red-black-green)
- H3: gray+blue+yellow+(red-black-green)
- H4: gray+blue+yellow+red+(black-green)
- H5: gray+blue+(red-black)+(green-yellow)
- H6: gray+blue+red+black+(green-yellow)
- H7: gray+blue+yellow+red+black+green



Kruskal-Wallis rank sum test on ML tree length
chi-squared = 165.86, df = 7, p-value < 2.2e-16

Multiple comparison test after Kruskal-Wallis
p.value: 0.05

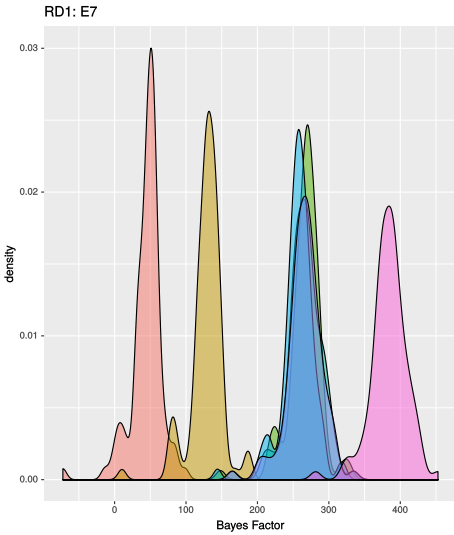
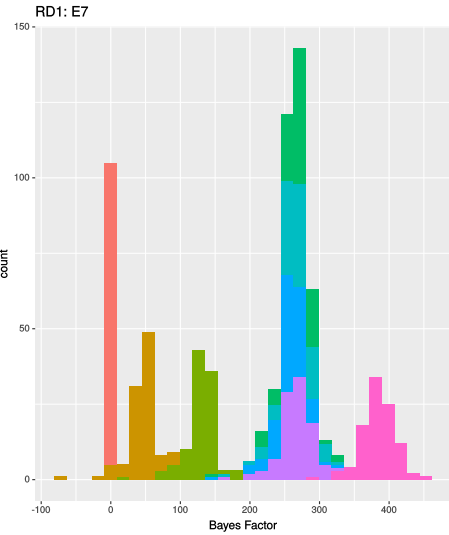
	obs.dif	critical.dif	difference
tlen_H0-tlen_H1	97.52	102.0845	FALSE
tlen_H0-tlen_H2	269.31	102.0845	TRUE
tlen_H0-tlen_H3	335.53	102.0845	TRUE
tlen_H0-tlen_H4	308.82	102.0845	TRUE
tlen_H0-tlen_H5	227.26	102.0845	TRUE
tlen_H0-tlen_H6	234.92	102.0845	TRUE
tlen_H0-tlen_H7	256.56	102.0845	TRUE



Kruskal-Wallis rank sum test on the Log Likelihood
chi-squared = 665.11, df = 7, p-value < 2.2e-16

Multiple comparison test after Kruskal-Wallis
p.value: 0.05

	obs.dif	critical.dif	difference
lnl_H0-lnl_H1	57.17	102.0845	FALSE
lnl_H0-lnl_H2	167.52	102.0845	TRUE
lnl_H0-lnl_H3	431.76	102.0845	TRUE
lnl_H0-lnl_H4	429.51	102.0845	TRUE
lnl_H0-lnl_H5	406.16	102.0845	TRUE
lnl_H0-lnl_H6	428.60	102.0845	TRUE
lnl_H0-lnl_H7	661.76	102.0845	TRUE



Kruskal-Wallis rank sum test on the ΔBF
chi-squared = 565.76, df = 6, p-value < 2.2e-16

Multiple comparison test after Kruskal-Wallis
p.value: 0.05

	obs.dif	critical.dif	difference
bf_H1-bf_H2	98.05	86.8822	TRUE
bf_H1-bf_H3	368.34	86.8822	TRUE
bf_H1-bf_H4	358.75	86.8822	TRUE
bf_H1-bf_H5	309.04	86.8822	TRUE
bf_H1-bf_H6	359.78	86.8822	TRUE
bf_H1-bf_H7	597.99	86.8822	TRUE
bf_H2-bf_H3	270.29	86.8822	TRUE
bf_H2-bf_H4	260.70	86.8822	TRUE
bf_H2-bf_H5	210.99	86.8822	TRUE
bf_H2-bf_H6	261.73	86.8822	TRUE
bf_H2-bf_H7	499.94	86.8822	TRUE
bf_H3-bf_H4	9.59	86.8822	FALSE
bf_H3-bf_H5	59.30	86.8822	FALSE
bf_H3-bf_H6	8.56	86.8822	FALSE
bf_H3-bf_H7	229.65	86.8822	TRUE
bf_H4-bf_H5	49.71	86.8822	FALSE
bf_H4-bf_H6	1.03	86.8822	FALSE
bf_H4-bf_H7	239.24	86.8822	TRUE
bf_H5-bf_H6	50.74	86.8822	FALSE
bf_H5-bf_H7	288.95	86.8822	TRUE
bf_H6-bf_H7	238.21	86.8822	TRUE