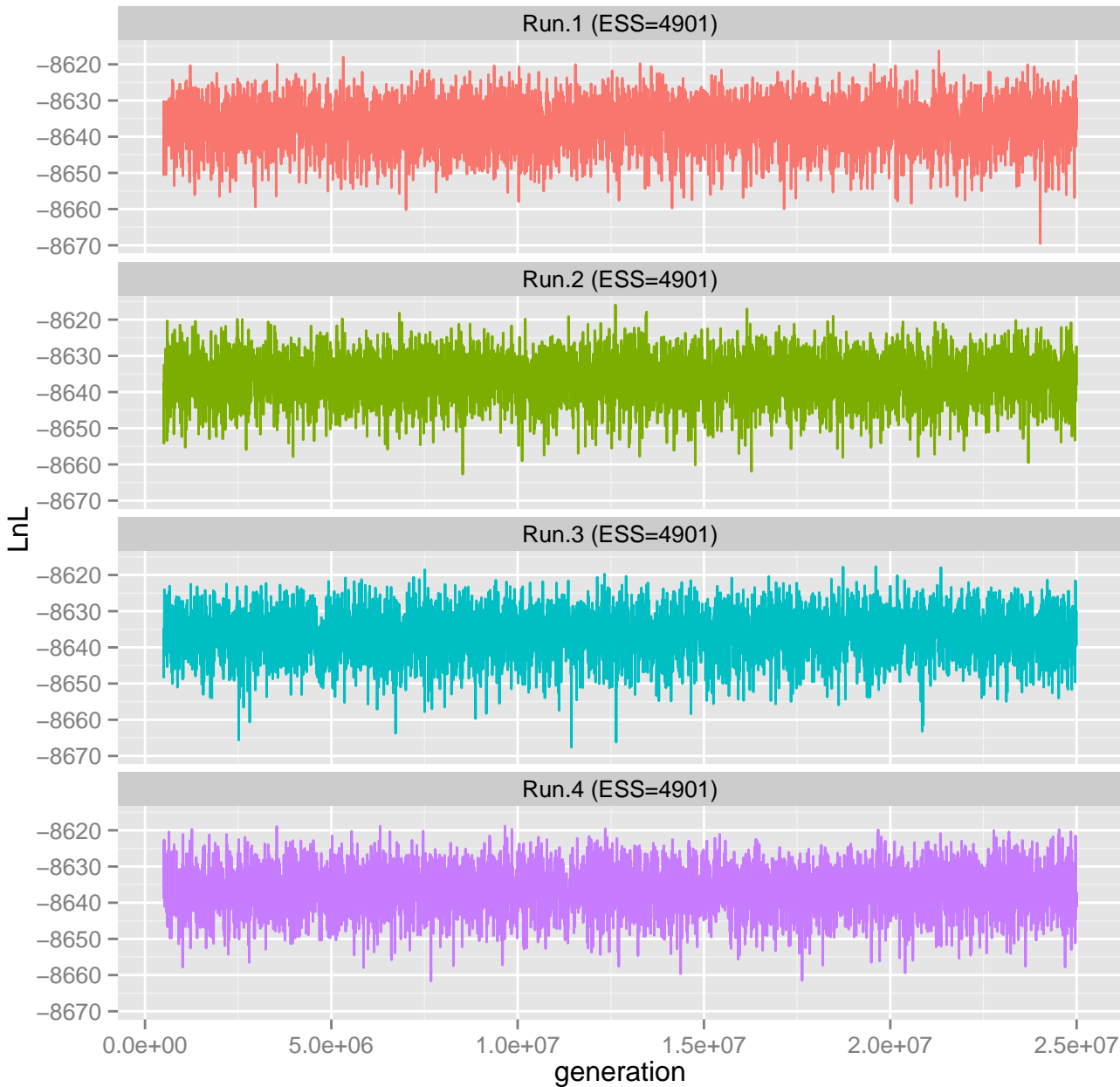


LnL



TL

Run.1 (ESS=4901)

3.6  
3.2  
2.8  
2.4

TL

Run.2 (ESS=5438)

3.6  
3.2  
2.8  
2.4

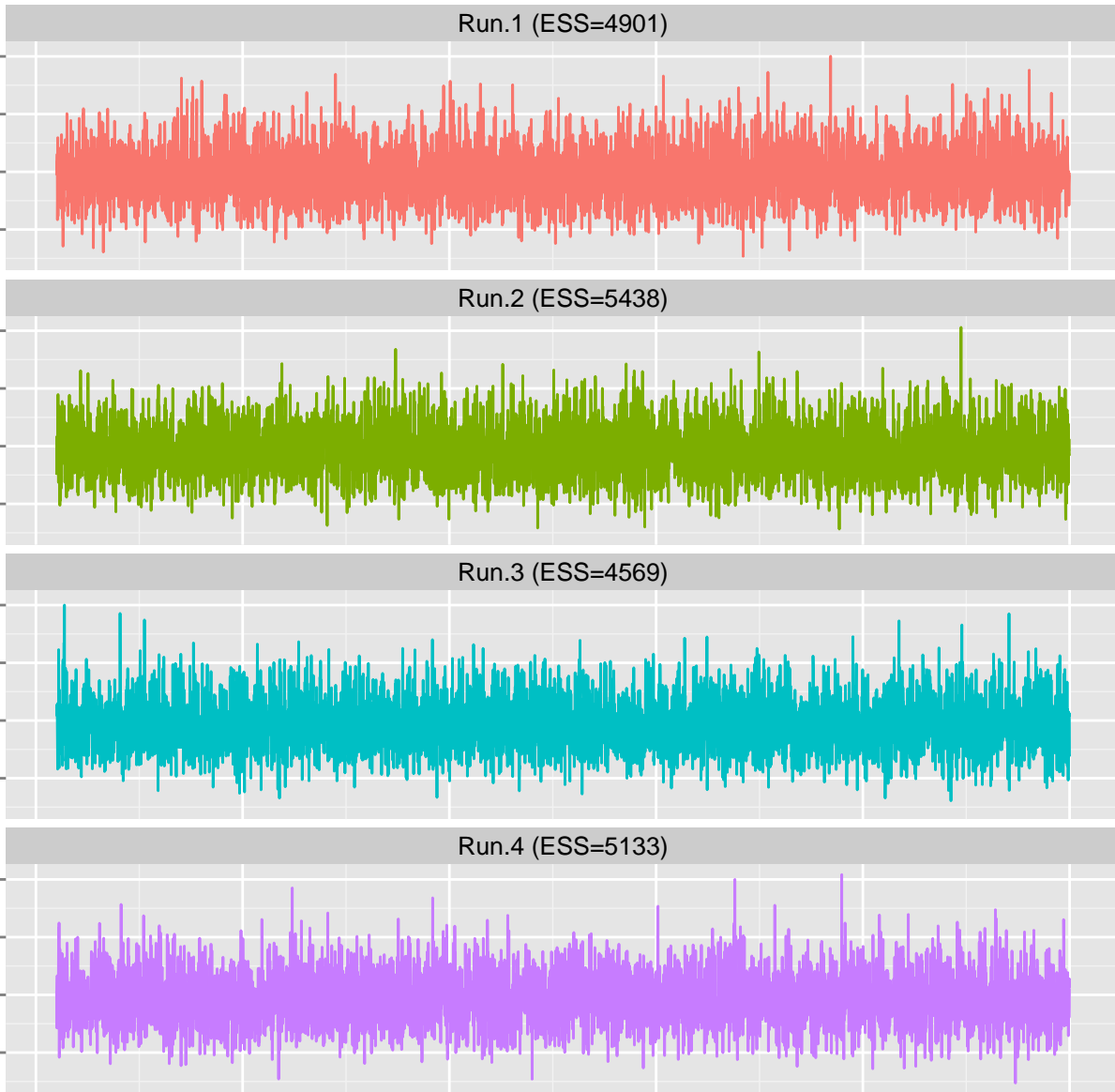
Run.3 (ESS=4569)

3.6  
3.2  
2.8  
2.4

Run.4 (ESS=5133)

3.6  
3.2  
2.8  
2.4

0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07  
generation



r.A...C.

Run.1 (ESS=4901)

0.04  
0.03  
0.02  
0.01

r.A...C.

Run.2 (ESS=4384)

0.04  
0.03  
0.02  
0.01

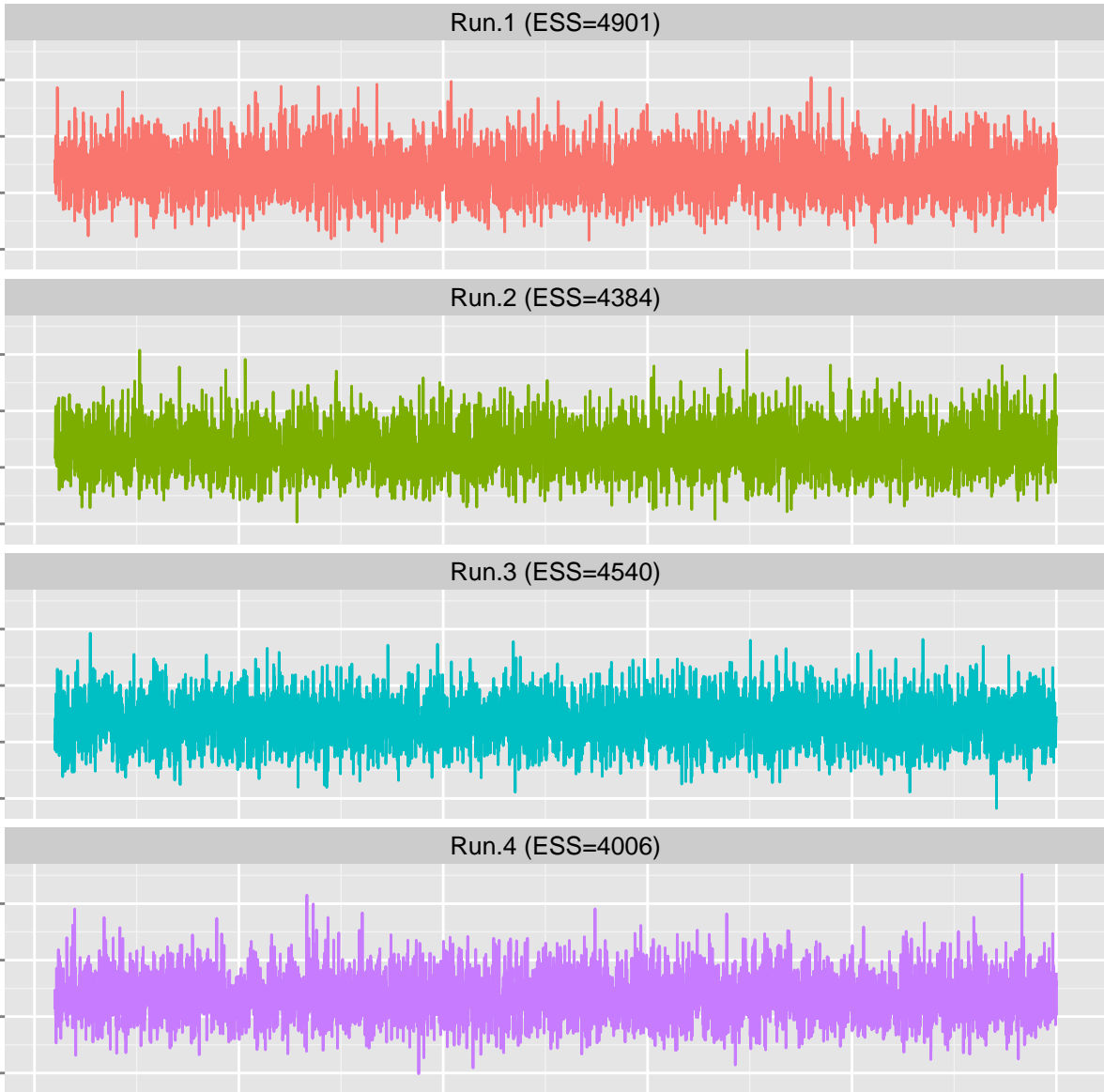
Run.3 (ESS=4540)

0.04  
0.03  
0.02  
0.01

Run.4 (ESS=4006)

0.04  
0.03  
0.02  
0.01

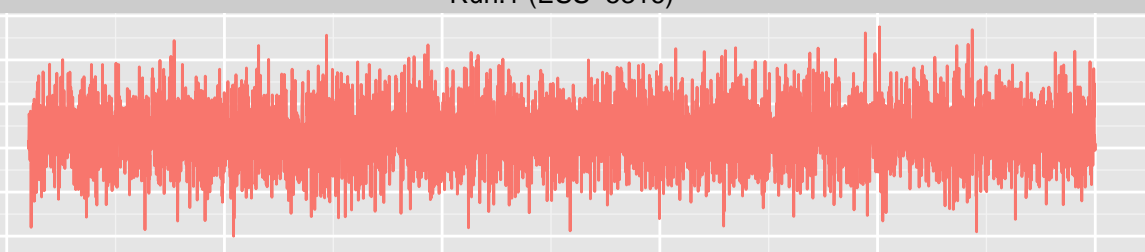
0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07  
generation



r.A...G.

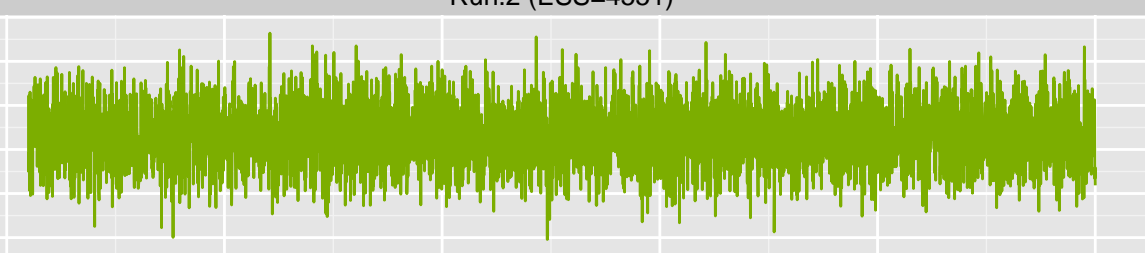
Run.1 (ESS=5316)

0.65  
0.60  
0.55  
0.50  
0.45  
0.40



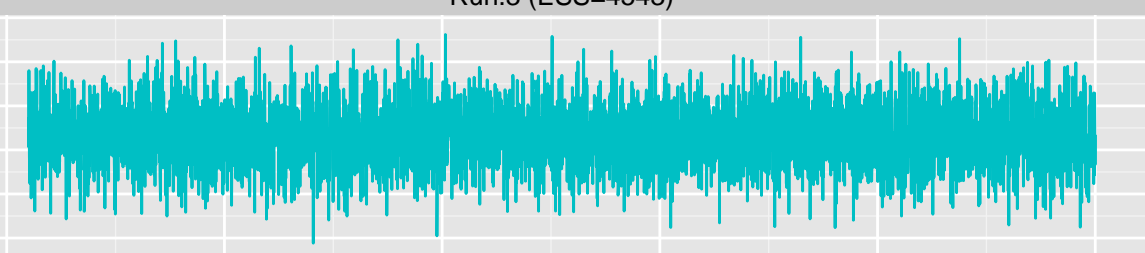
Run.2 (ESS=4551)

0.65  
0.60  
0.55  
0.50  
0.45  
0.40



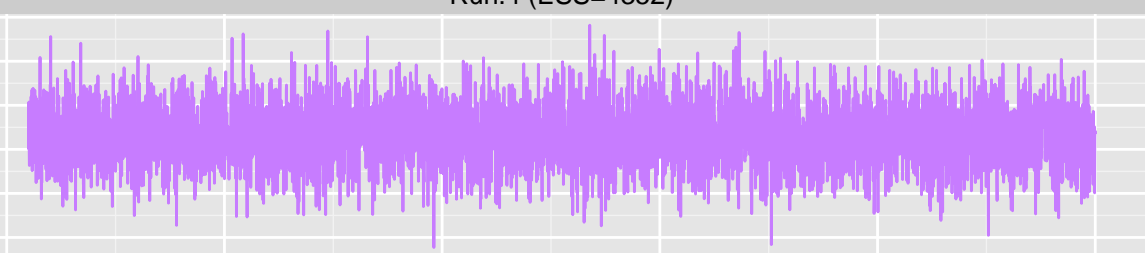
Run.3 (ESS=4543)

0.65  
0.60  
0.55  
0.50  
0.45  
0.40



Run.4 (ESS=4352)

0.65  
0.60  
0.55  
0.50  
0.45  
0.40



r.A...G.

0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07

generation

r.A...T.

Run.1 (ESS=4614)

0.03  
0.02  
0.01

r.A...T.

Run.2 (ESS=4639)

0.03  
0.02  
0.01

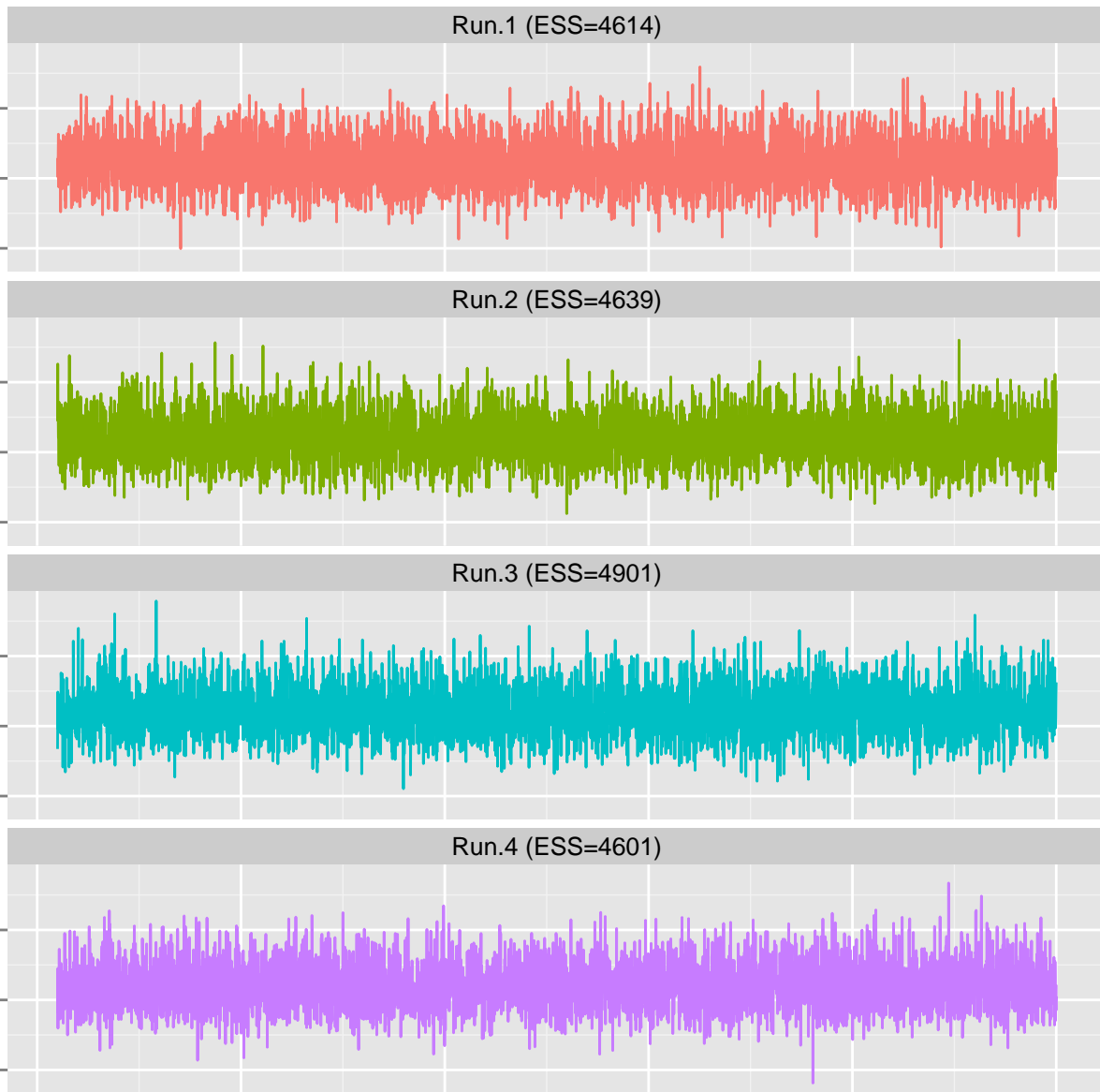
Run.3 (ESS=4901)

0.03  
0.02  
0.01

Run.4 (ESS=4601)

0.03  
0.02  
0.01

0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07  
generation



r.C...G.

Run.1 (ESS=4901)

0.10

0.05

Run.2 (ESS=4901)

0.10

0.05

Run.3 (ESS=4901)

0.10

0.05

Run.4 (ESS=4901)

0.10

0.05

r.C...G.

0.0e+00

5.0e+06

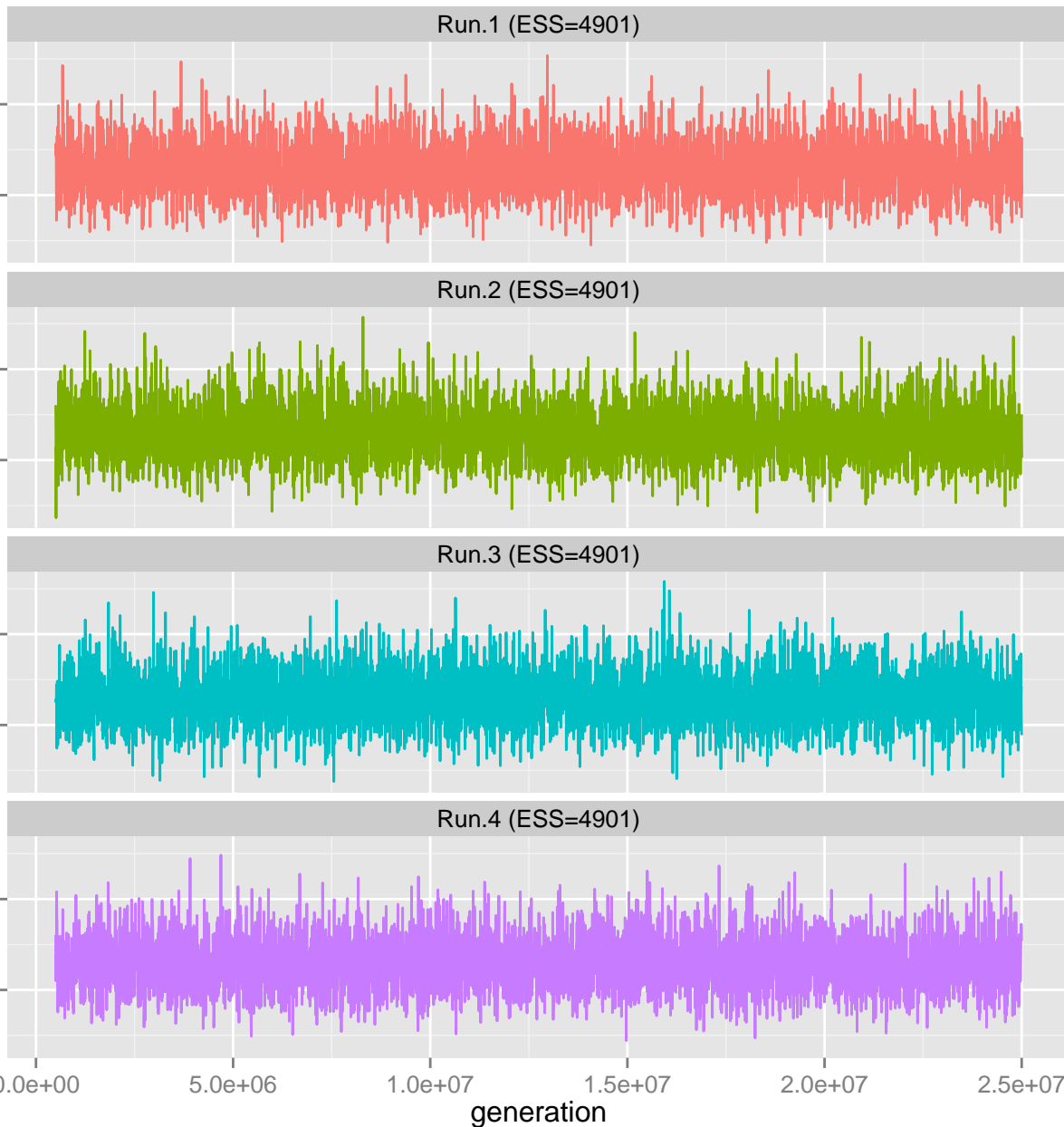
1.0e+07

1.5e+07

2.0e+07

2.5e+07

generation



r.C...T.

Run.1 (ESS=4435)

0.4  
0.3

Run.2 (ESS=4359)

0.4  
0.3

Run.3 (ESS=4492)

0.4  
0.3

Run.4 (ESS=4183)

0.4  
0.3

r.C...T.

generation

0.0e+00

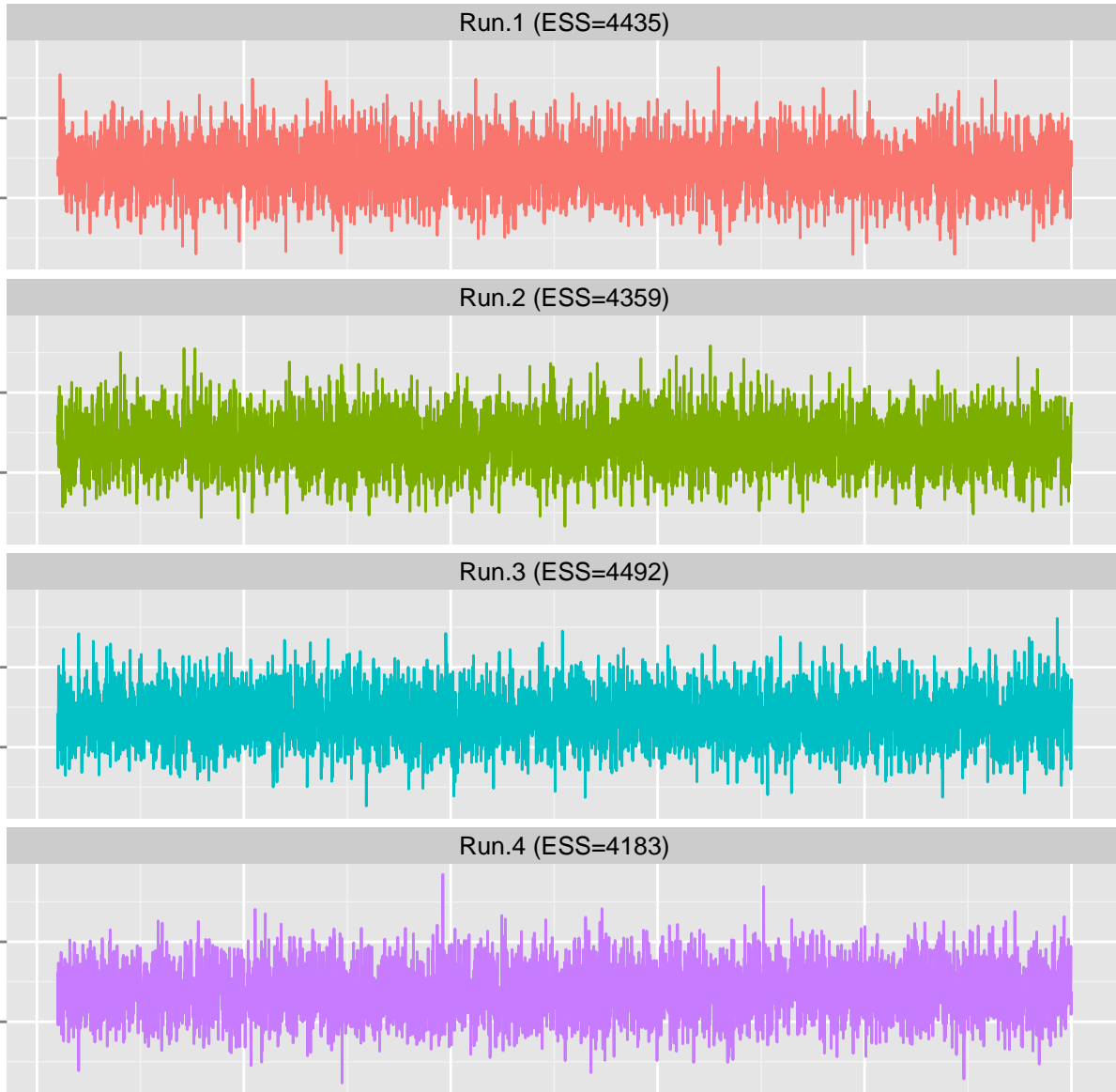
5.0e+06

1.0e+07

1.5e+07

2.0e+07

2.5e+07



r.G...T.

Run.1 (ESS=4901)

0.08  
0.06  
0.04  
0.02

Run.2 (ESS=4901)

0.08  
0.06  
0.04  
0.02

r.G...T.

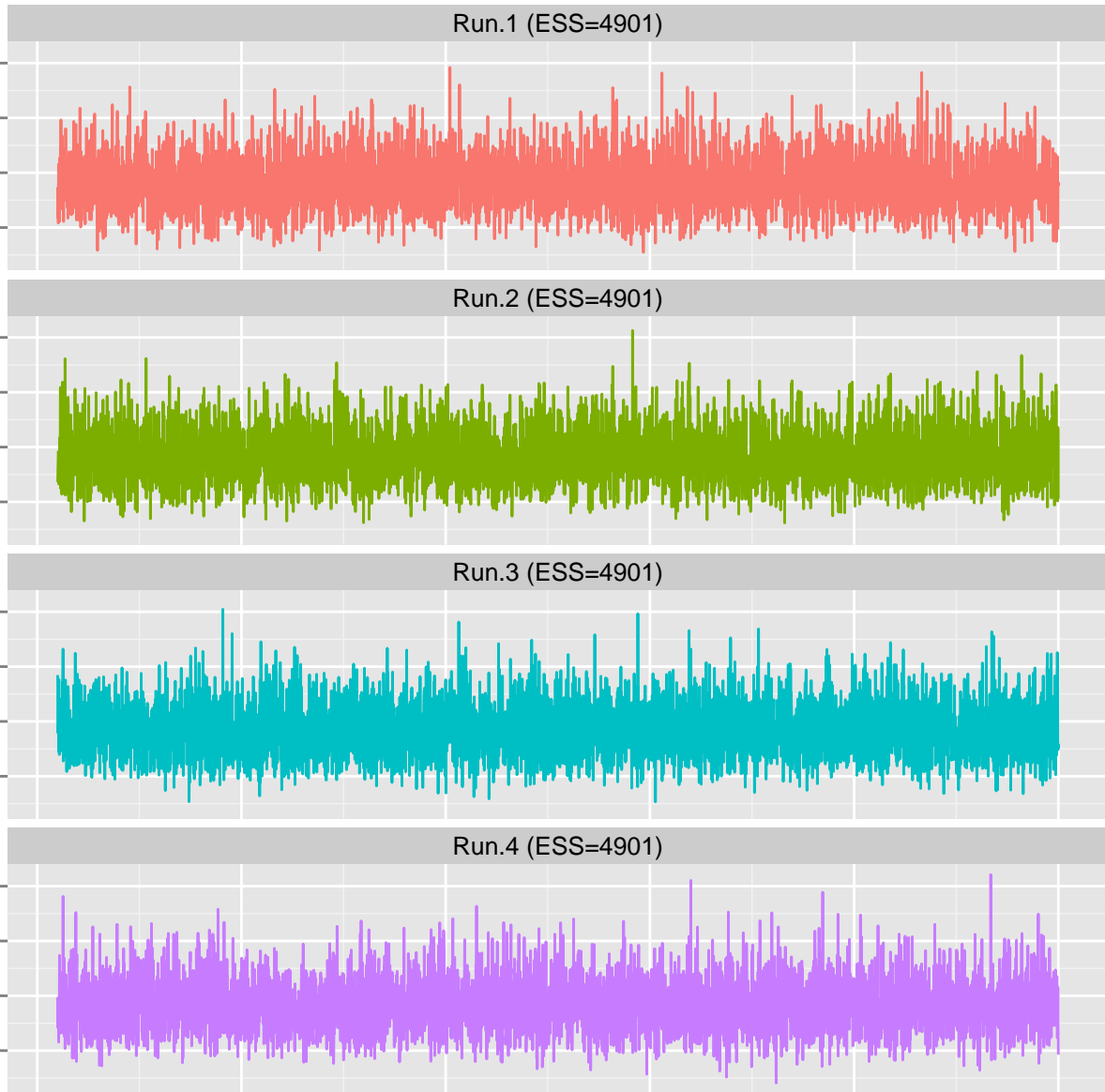
Run.3 (ESS=4901)

0.08  
0.06  
0.04  
0.02

Run.4 (ESS=4901)

0.08  
0.06  
0.04  
0.02

0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07  
generation

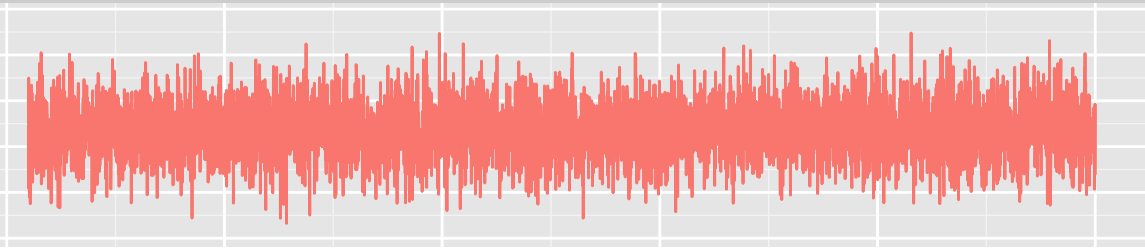




pi.A.

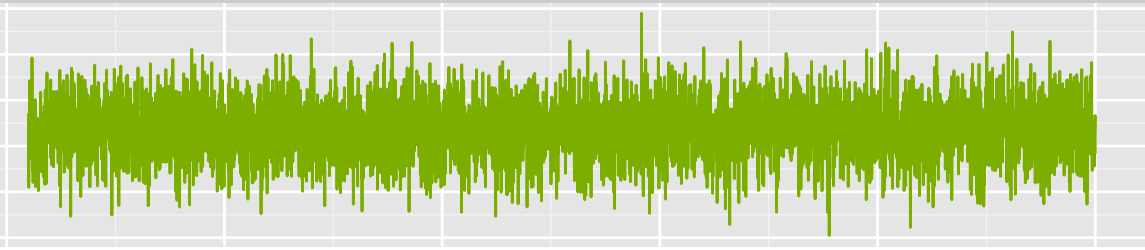
Run.1 (ESS=4901)

0.46  
0.44  
0.42  
0.40  
0.38  
0.36



Run.2 (ESS=4628)

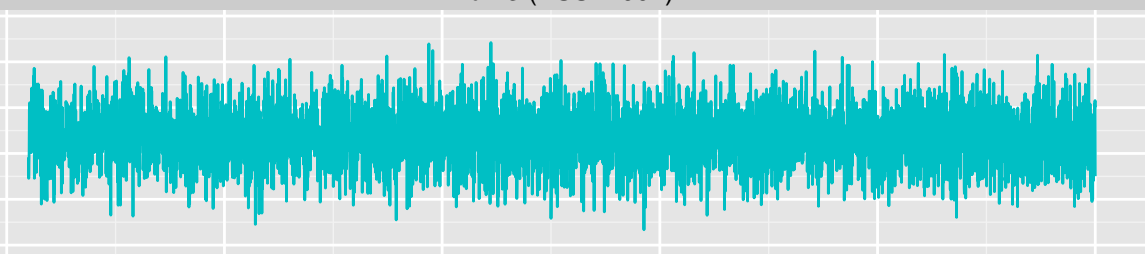
0.46  
0.44  
0.42  
0.40  
0.38  
0.36



Run.3 (ESS=4901)

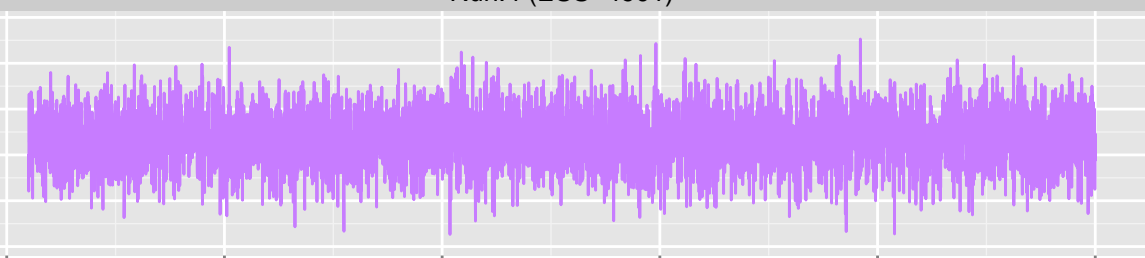
pi.A.

0.46  
0.44  
0.42  
0.40  
0.38  
0.36



Run.4 (ESS=4901)

0.46  
0.44  
0.42  
0.40  
0.38  
0.36



0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07

generation

pi.C.

Run.1 (ESS=5186)

0.24  
0.22  
0.20  
0.18

Run.2 (ESS=4136)

0.24  
0.22  
0.20  
0.18

pi.C.

Run.3 (ESS=4642)

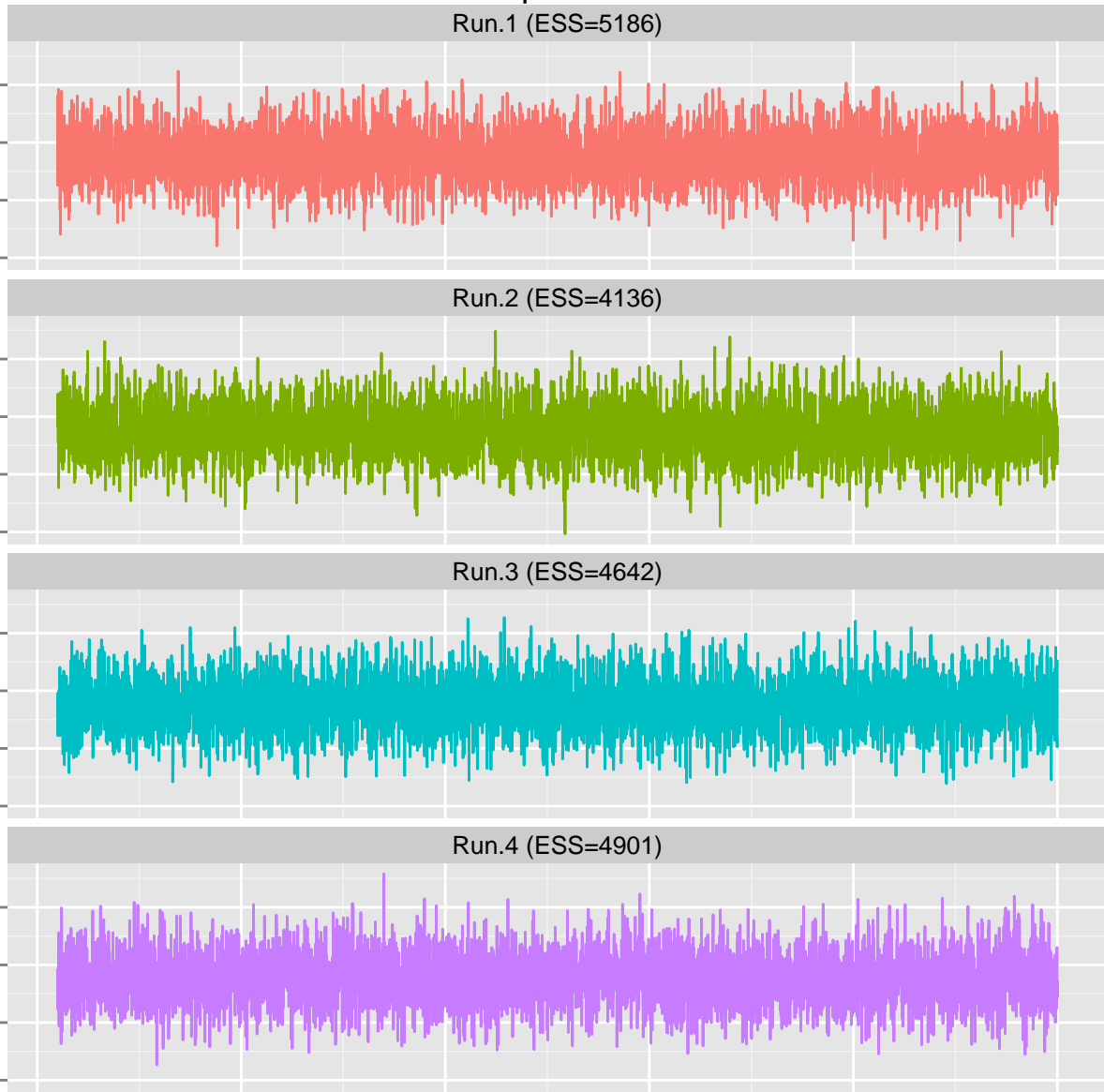
0.24  
0.22  
0.20  
0.18

Run.4 (ESS=4901)

0.24  
0.22  
0.20  
0.18

0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07

generation



pi.G.

Run.1 (ESS=5316)

0.09  
0.08  
0.07  
0.06  
0.05

pi.G.

Run.2 (ESS=4901)

0.09  
0.08  
0.07  
0.06  
0.05

Run.3 (ESS=4401)

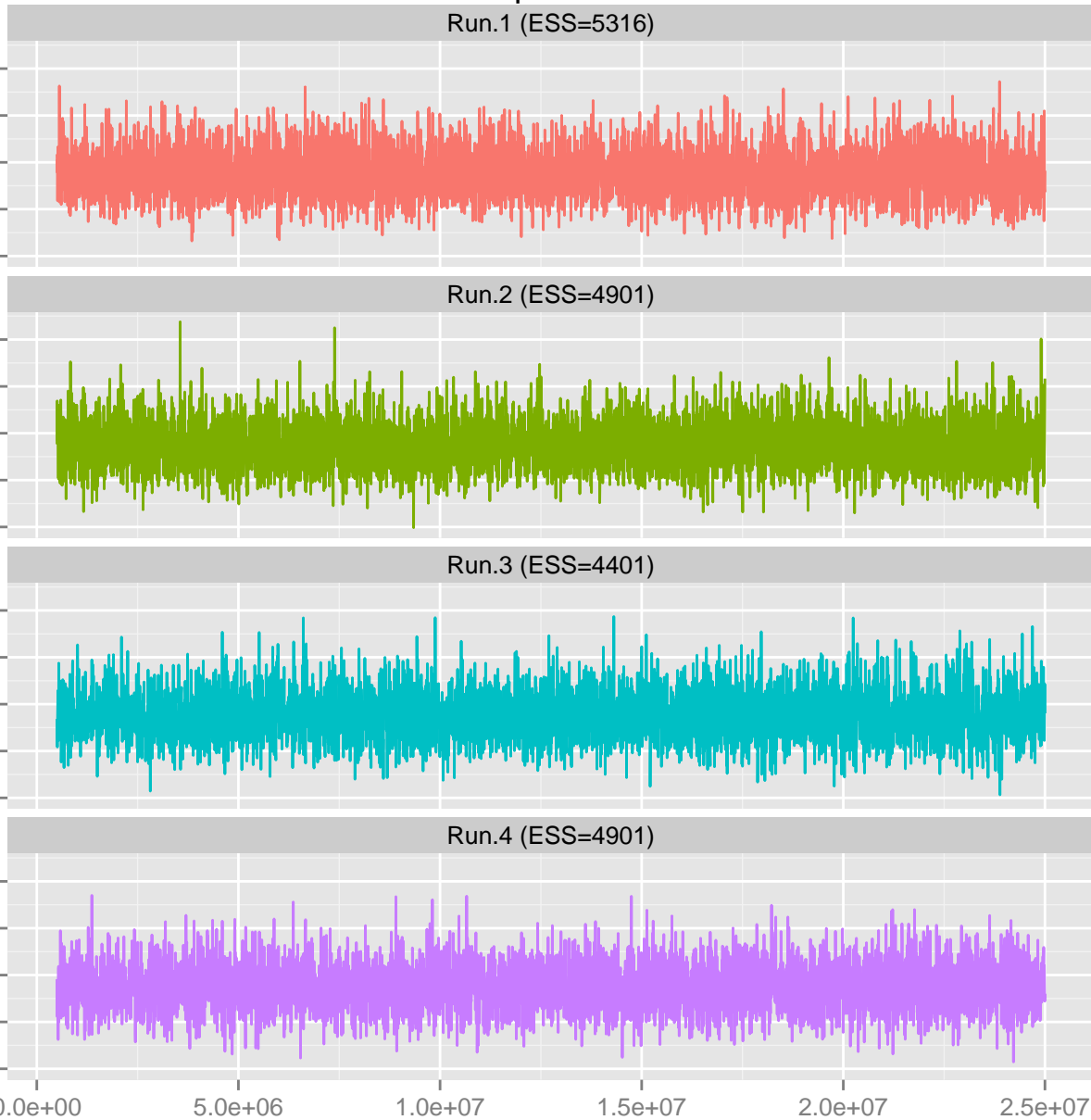
0.09  
0.08  
0.07  
0.06  
0.05

Run.4 (ESS=4901)

0.09  
0.08  
0.07  
0.06  
0.05

0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07

generation



pi.T.

Run.1 (ESS=5313)

0.34  
0.32  
0.30  
0.28

Run.2 (ESS=4901)

0.34  
0.32  
0.30  
0.28

pi.T.

Run.3 (ESS=4901)

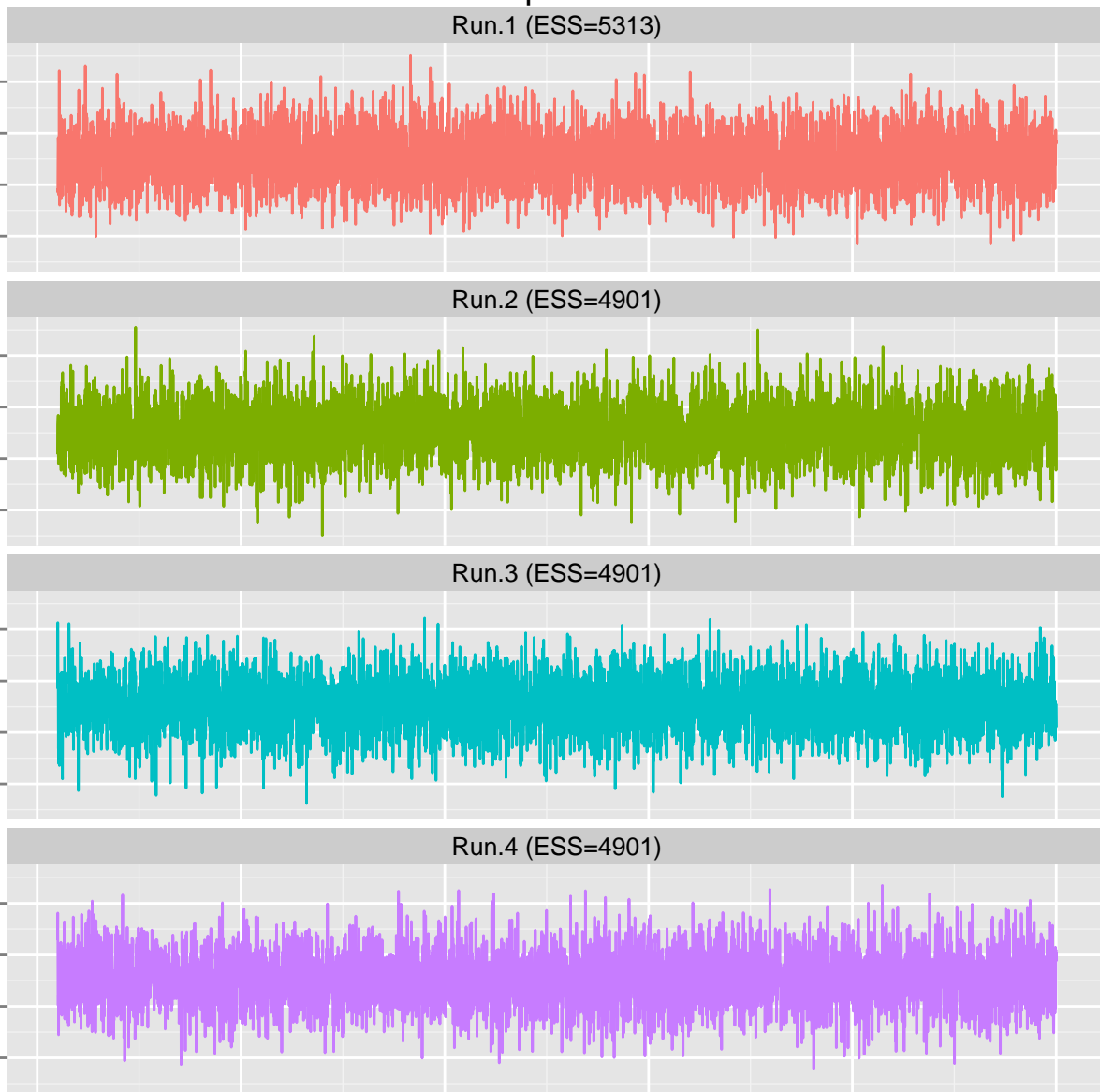
0.34  
0.32  
0.30  
0.28

Run.4 (ESS=4901)

0.34  
0.32  
0.30  
0.28

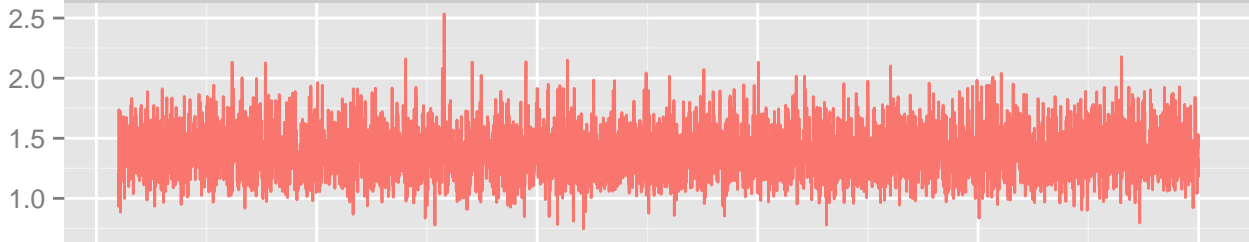
0.0e+00 5.0e+06 1.0e+07 1.5e+07 2.0e+07 2.5e+07

generation

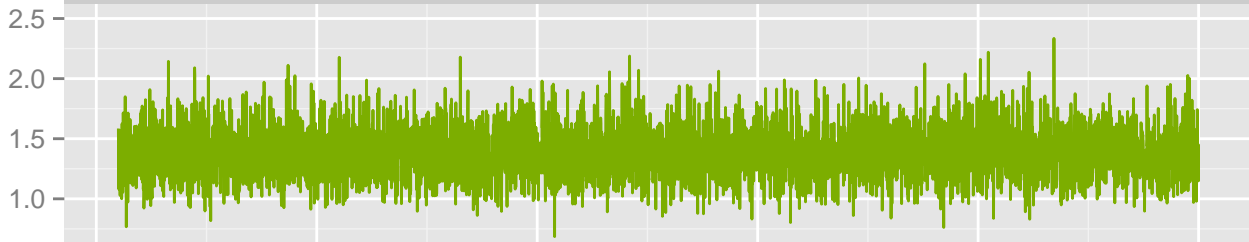


alpha

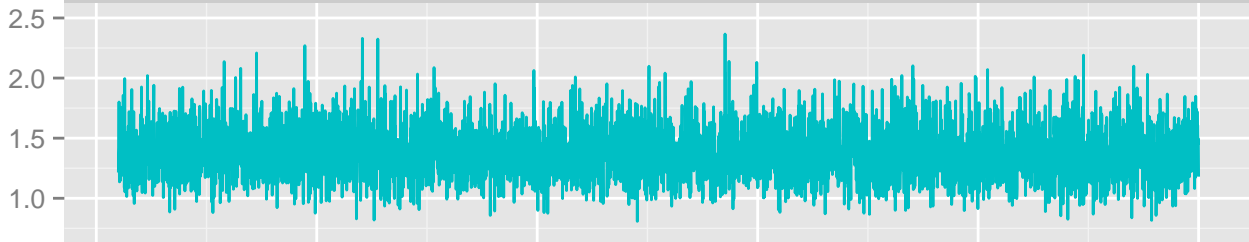
Run.1 (ESS=4516)



Run.2 (ESS=4901)



Run.3 (ESS=4901)



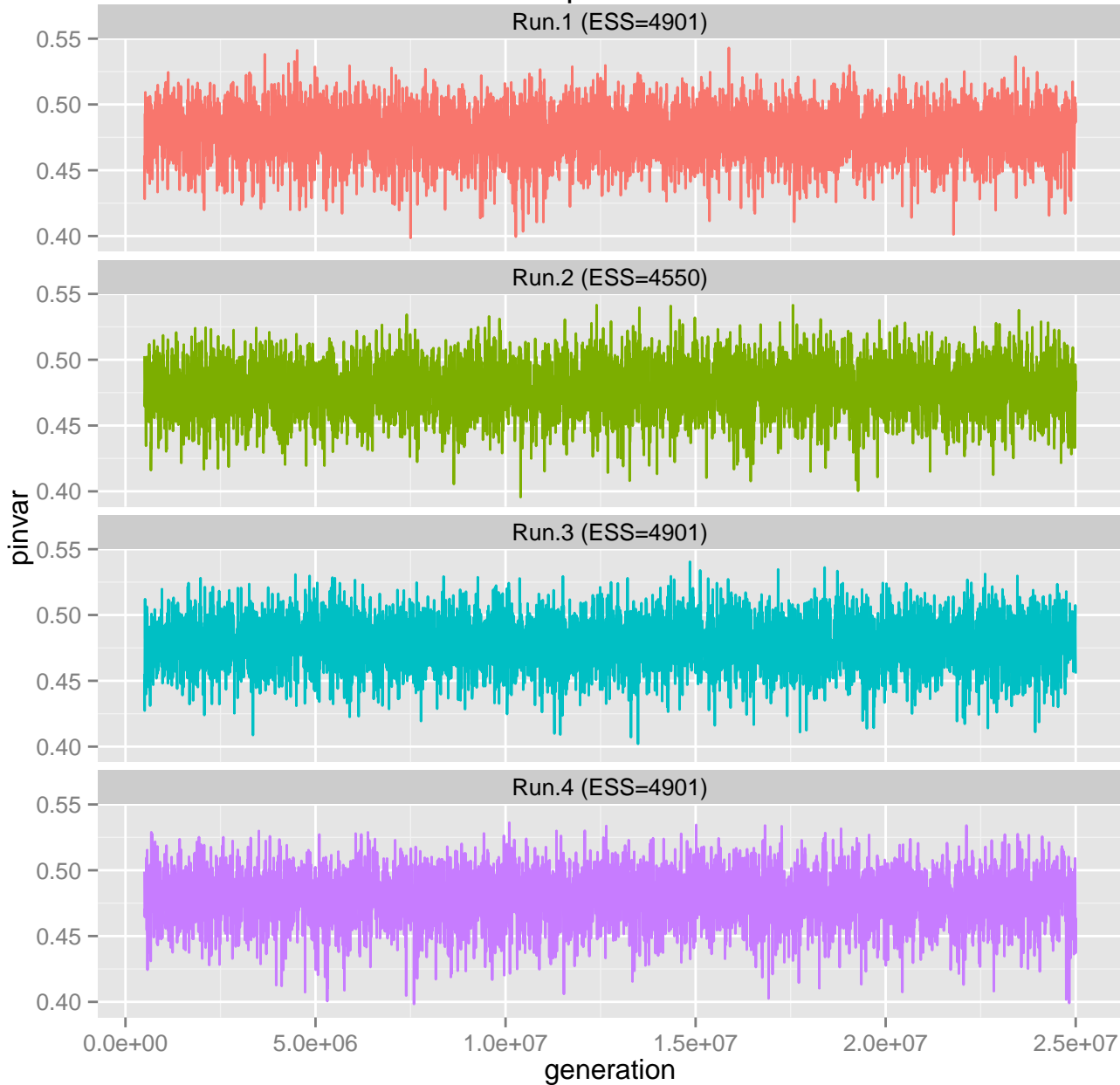
Run.4 (ESS=4901)

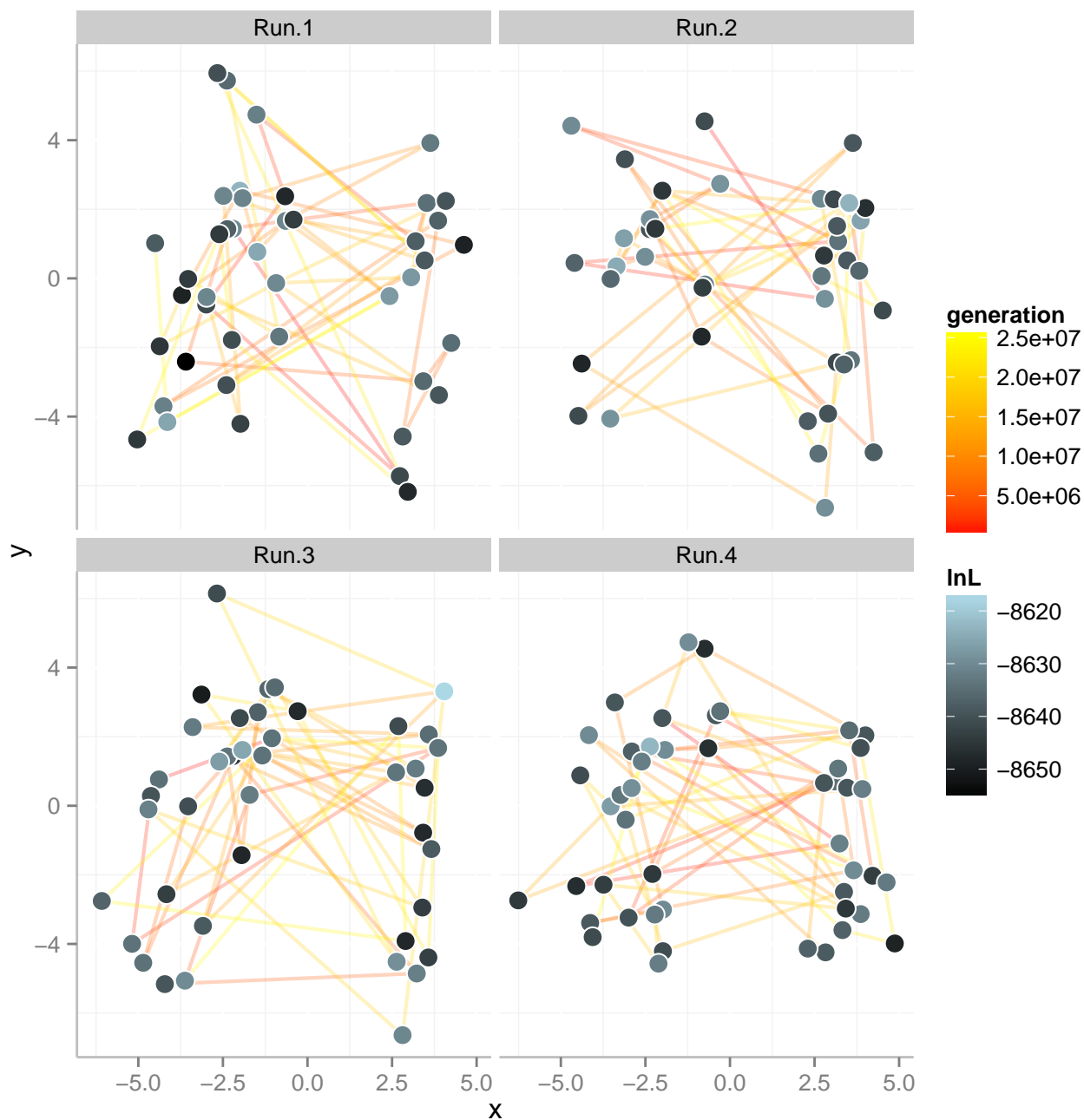


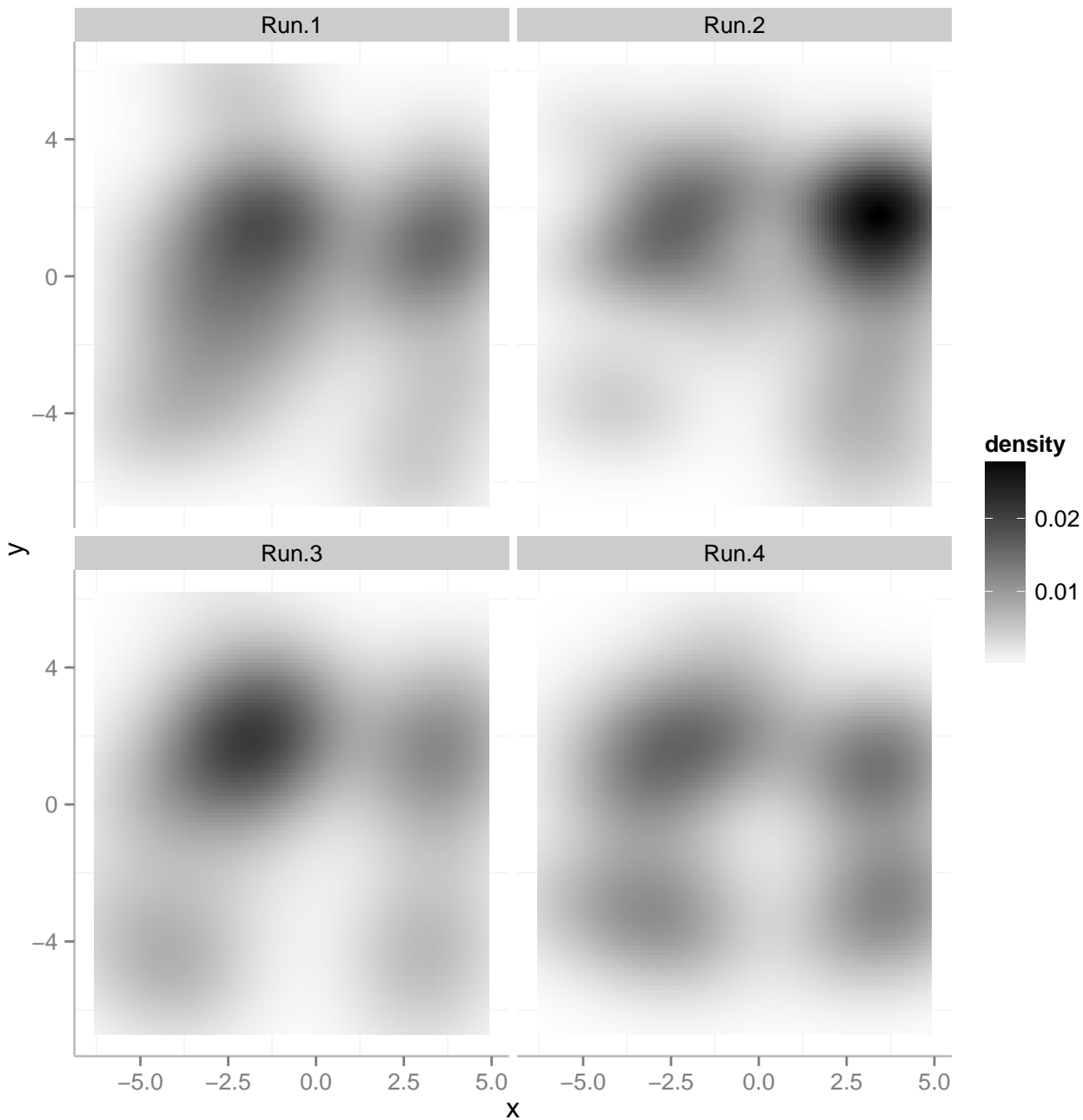
alpha

generation

# pinvar

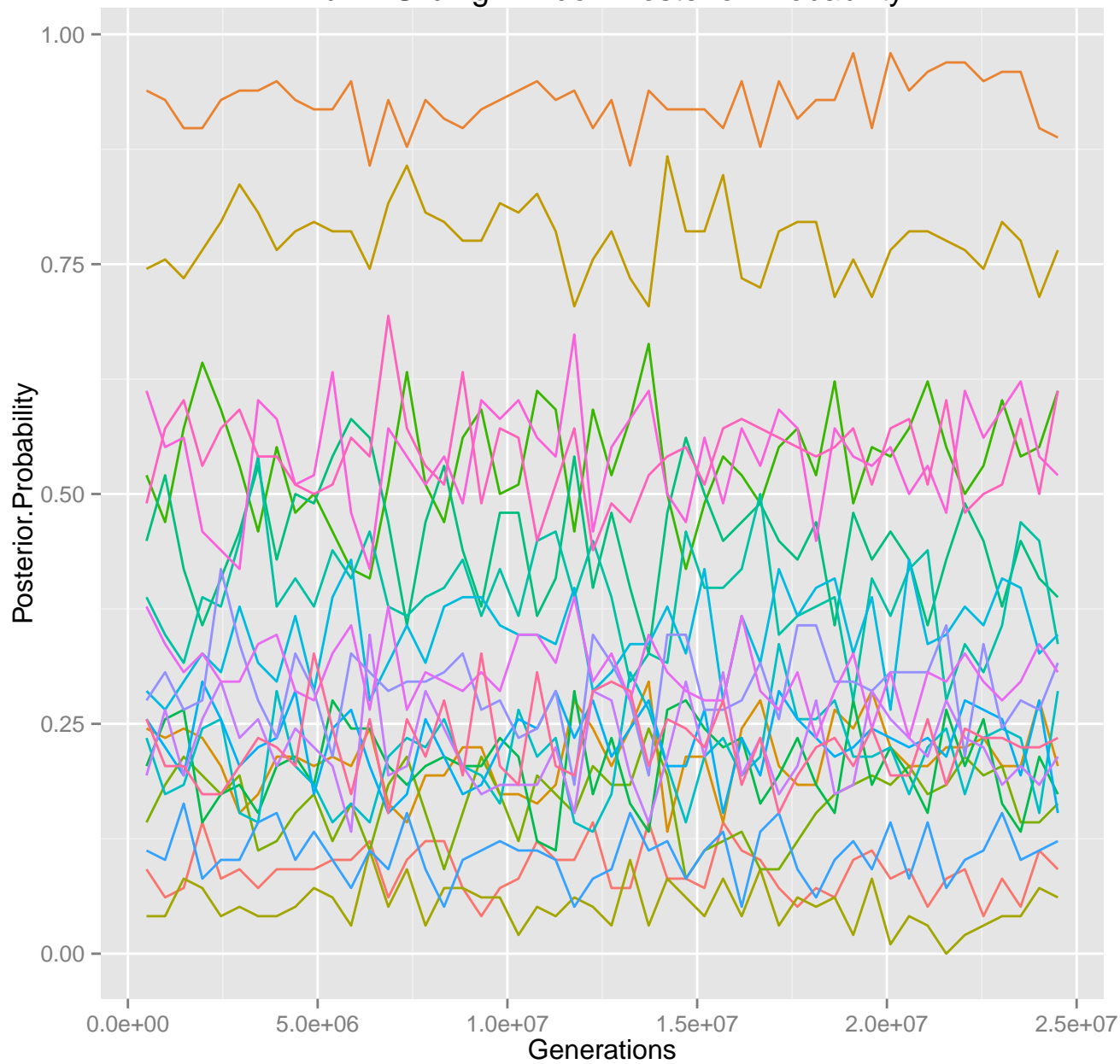




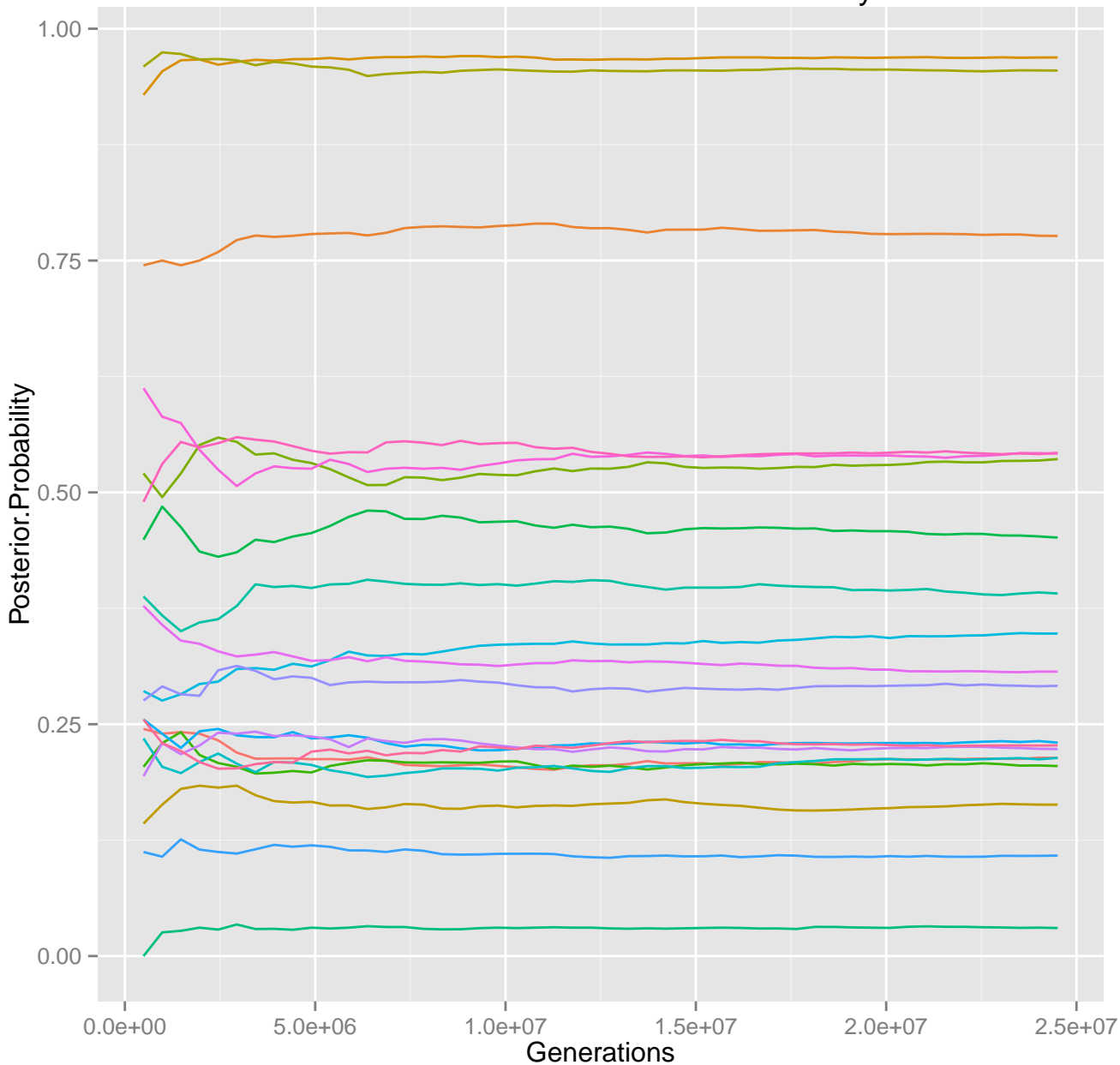




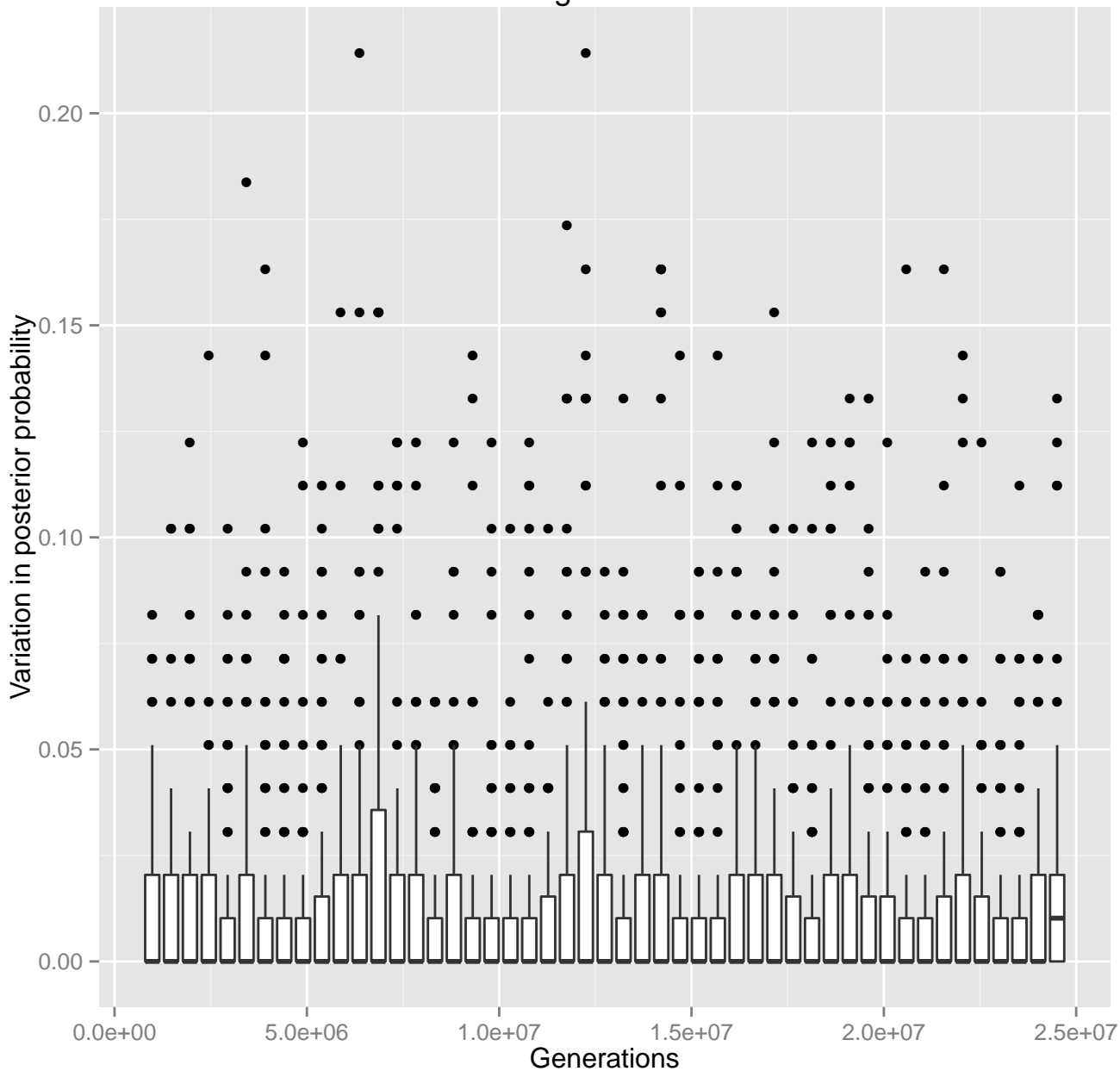
Run.1 Sliding Window Posterior Probability



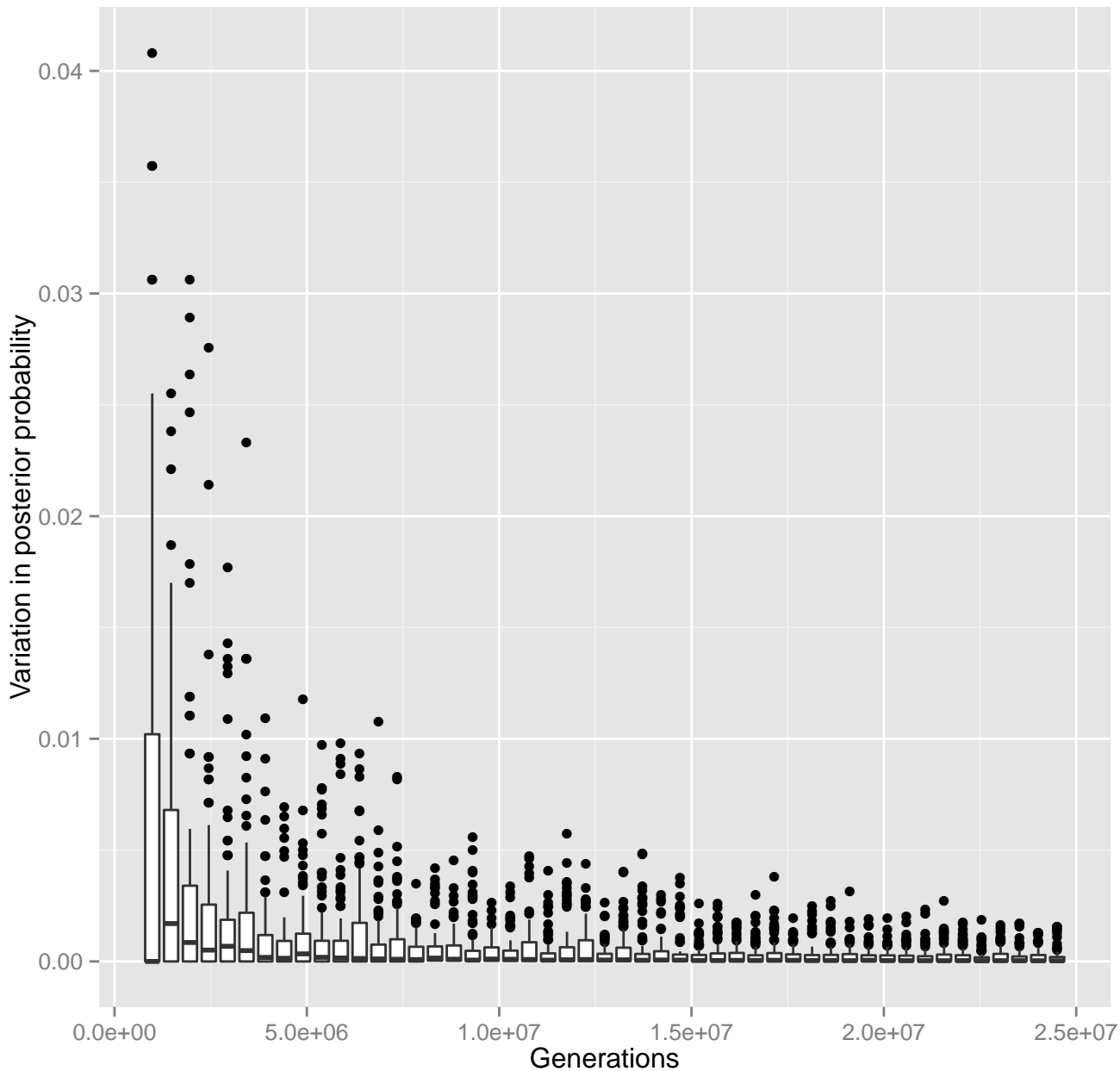
Run.1 Cumulative Posterior Probability



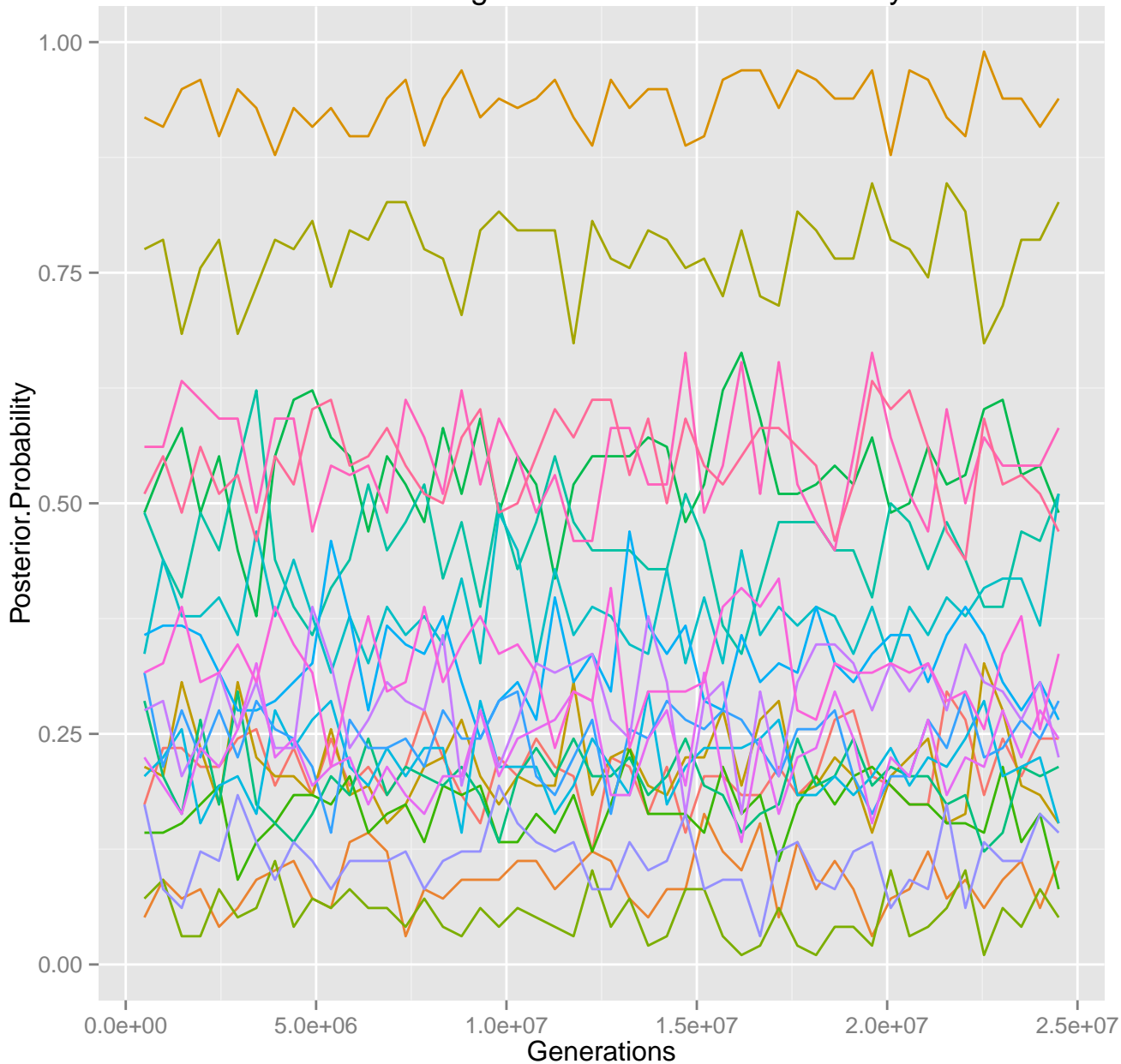
Run.1 Sliding Window Variance



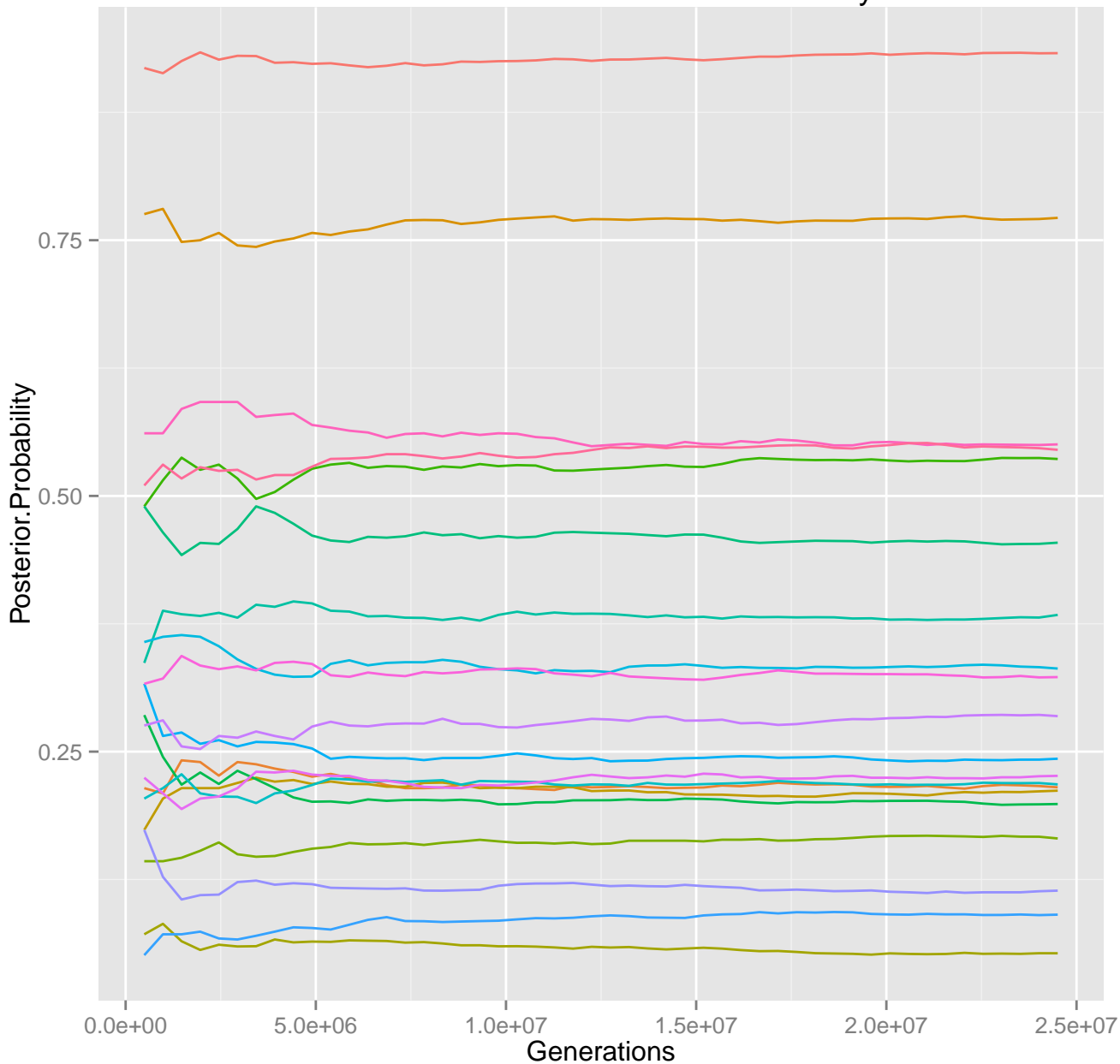
# Run.1 Cumulative Variance



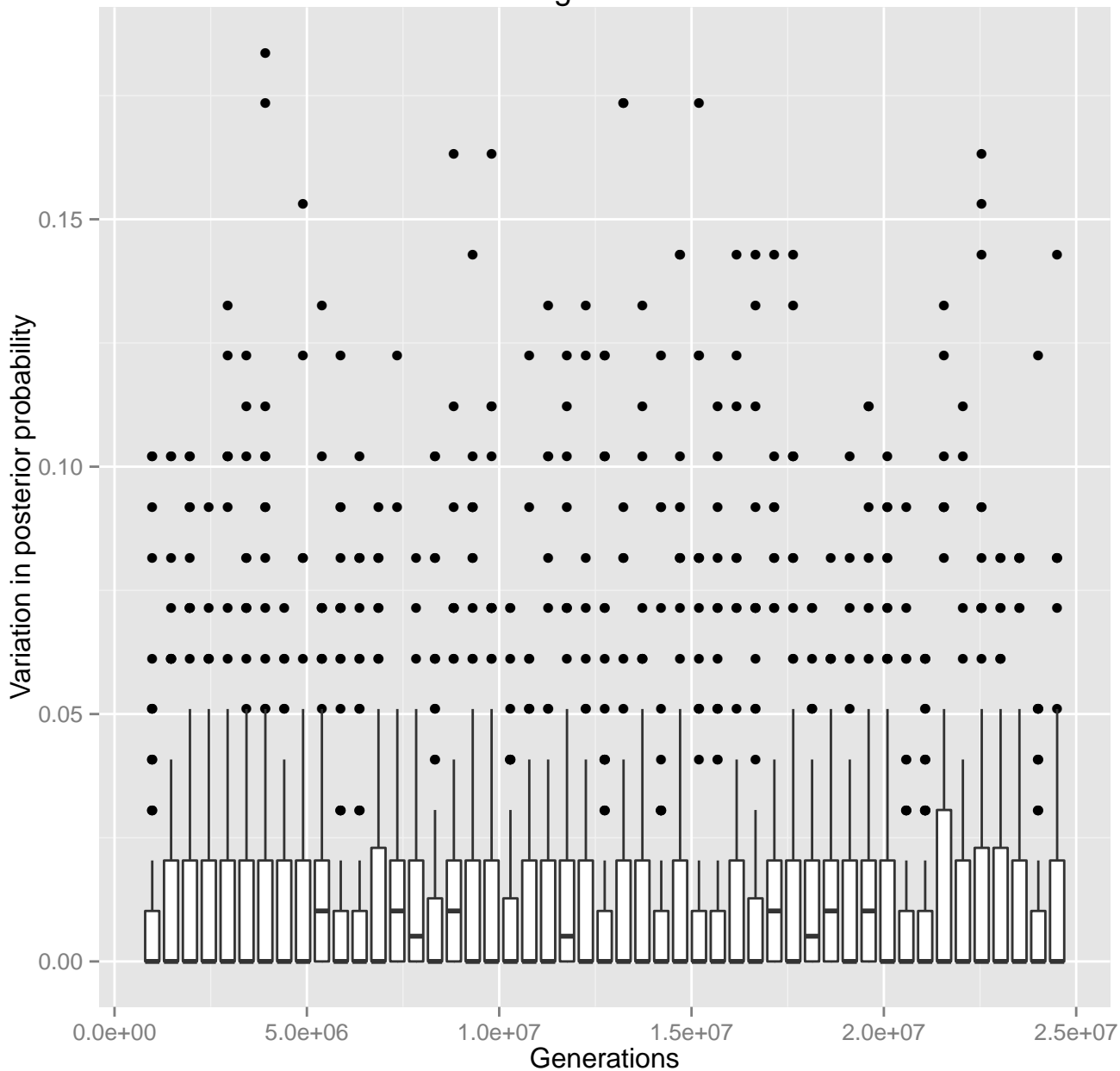
Run.2 Sliding Window Posterior Probability



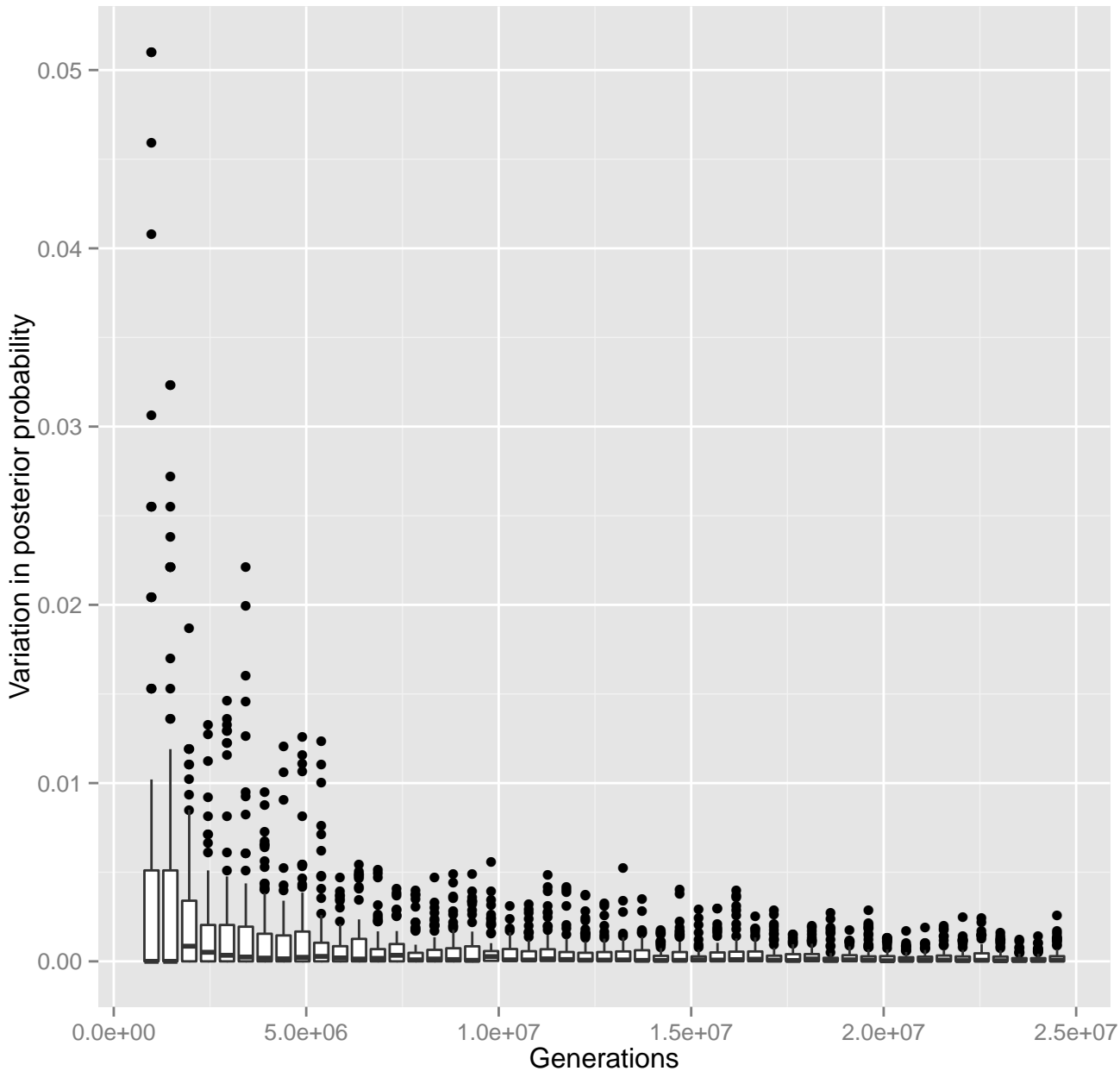
Run.2 Cumulative Posterior Probability



Run.2 Sliding Window Variance

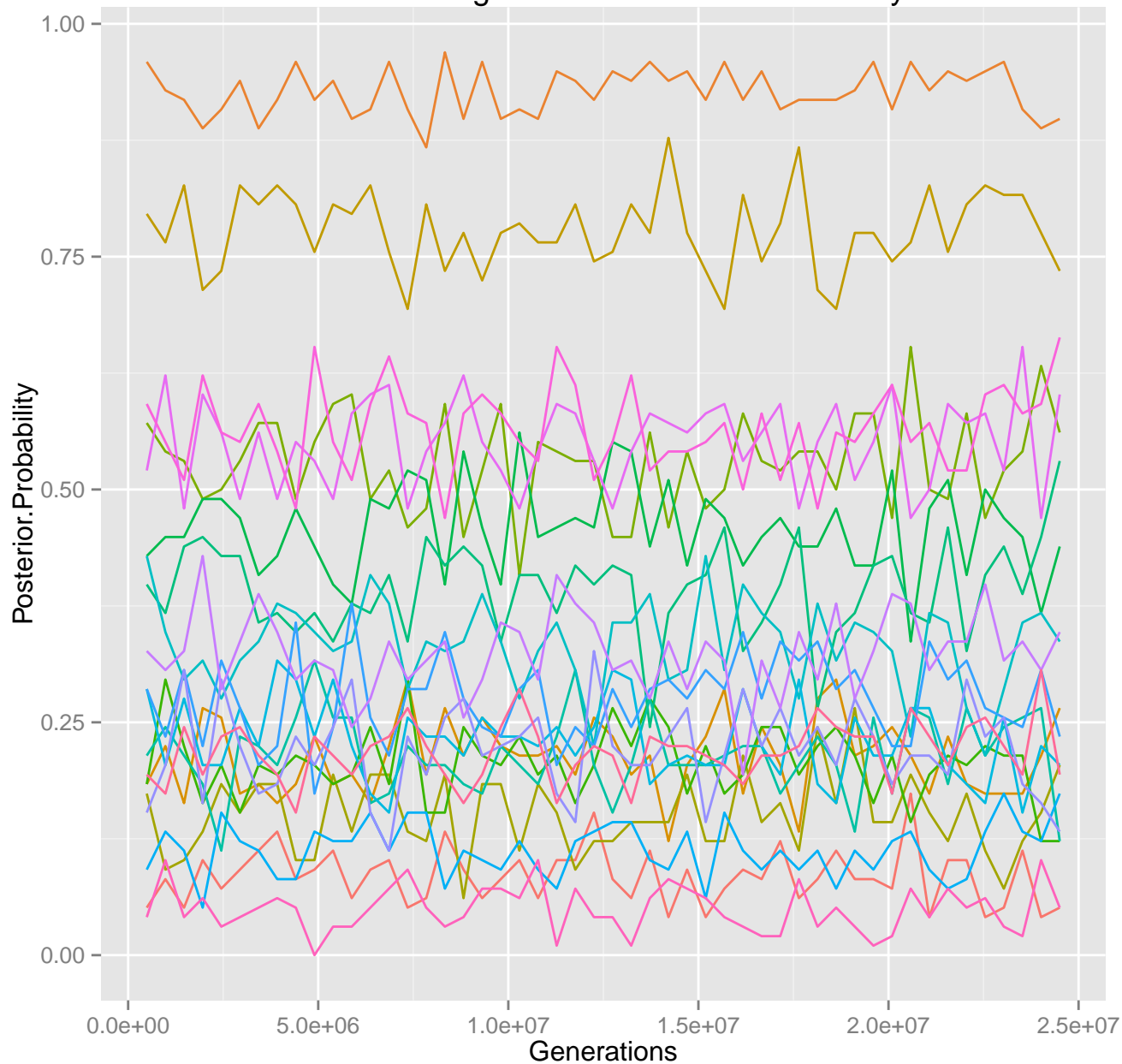


# Run.2 Cumulative Variance

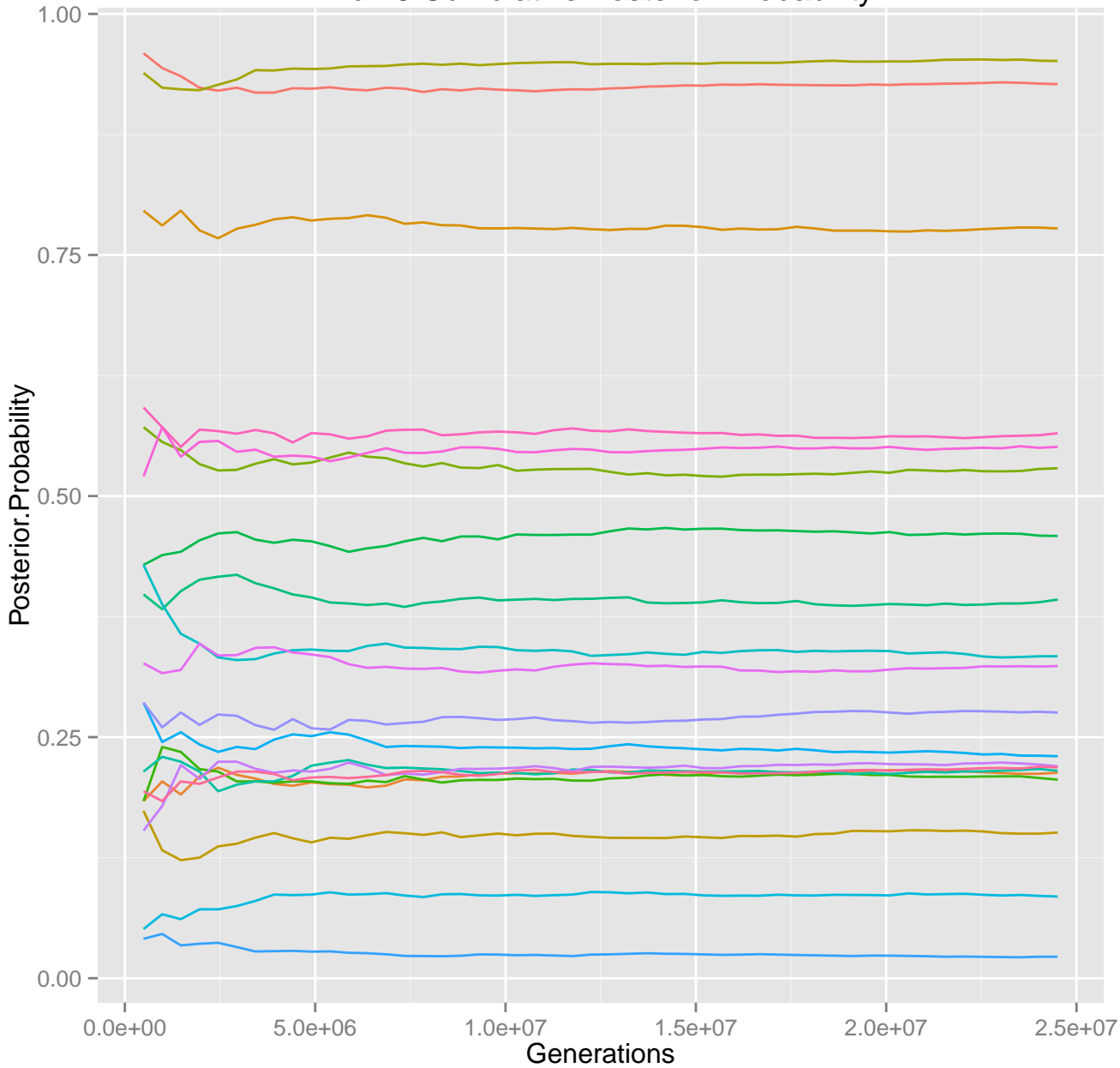




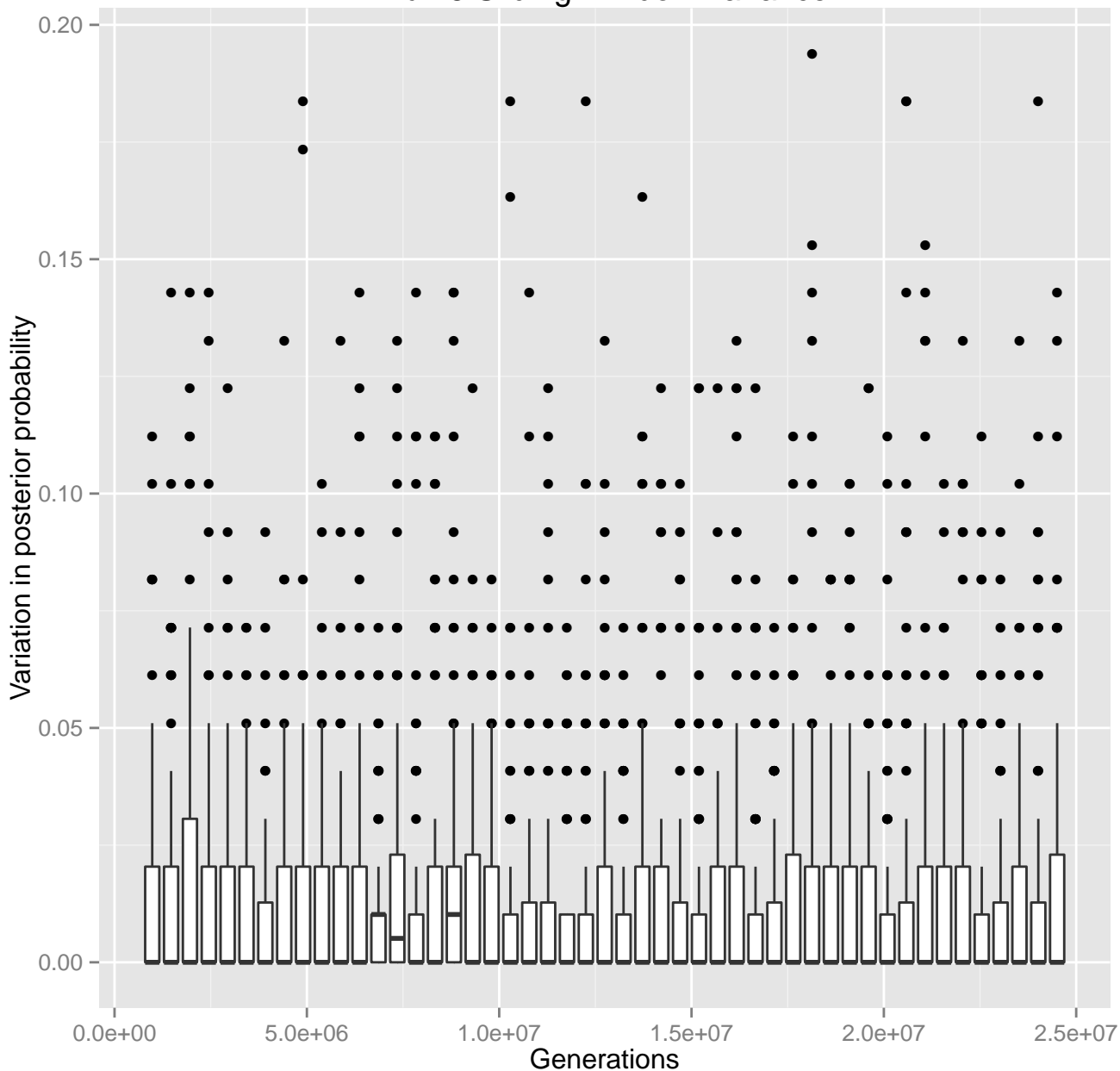
Run.3 Sliding Window Posterior Probability



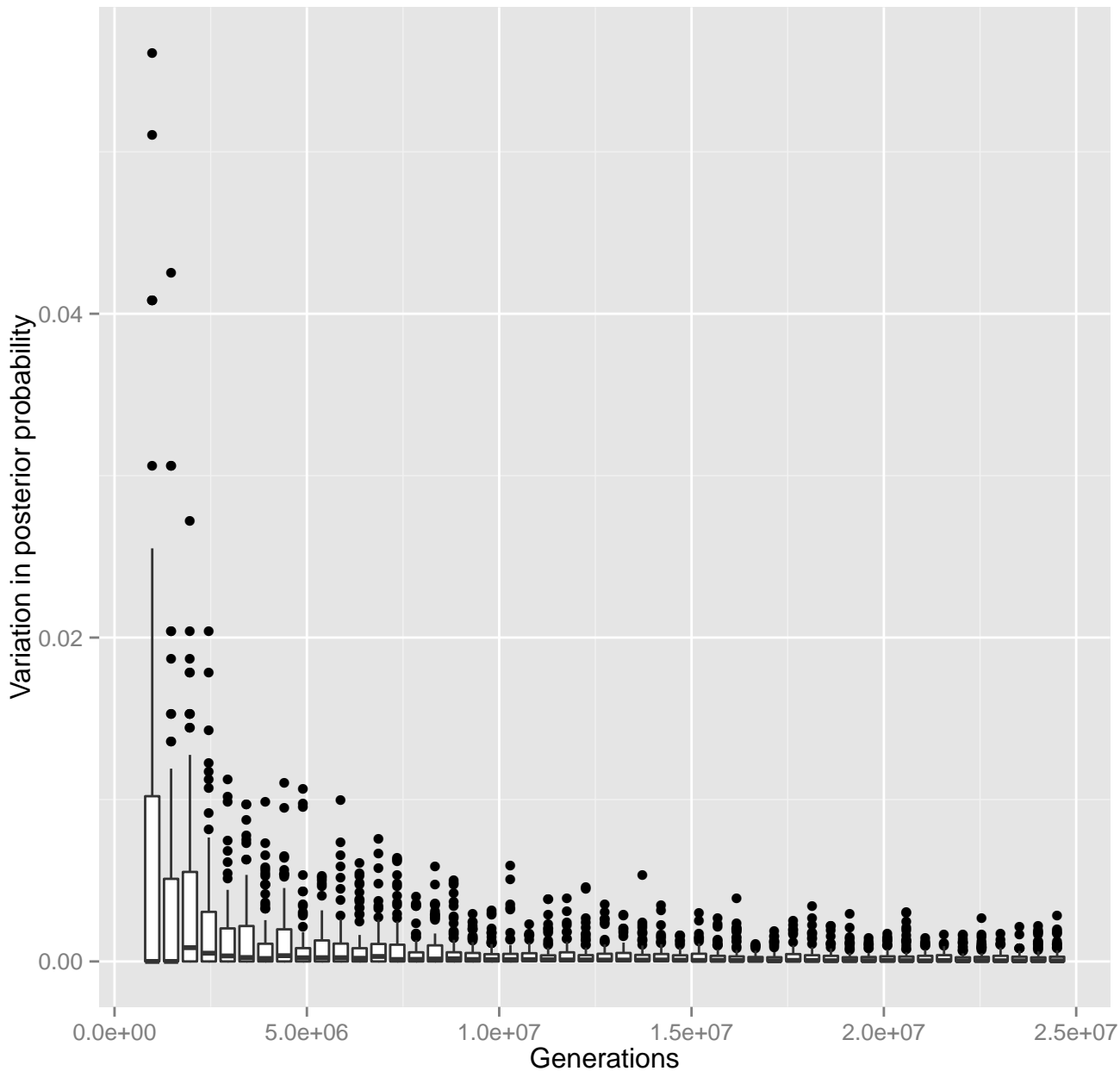
## Run.3 Cumulative Posterior Probability



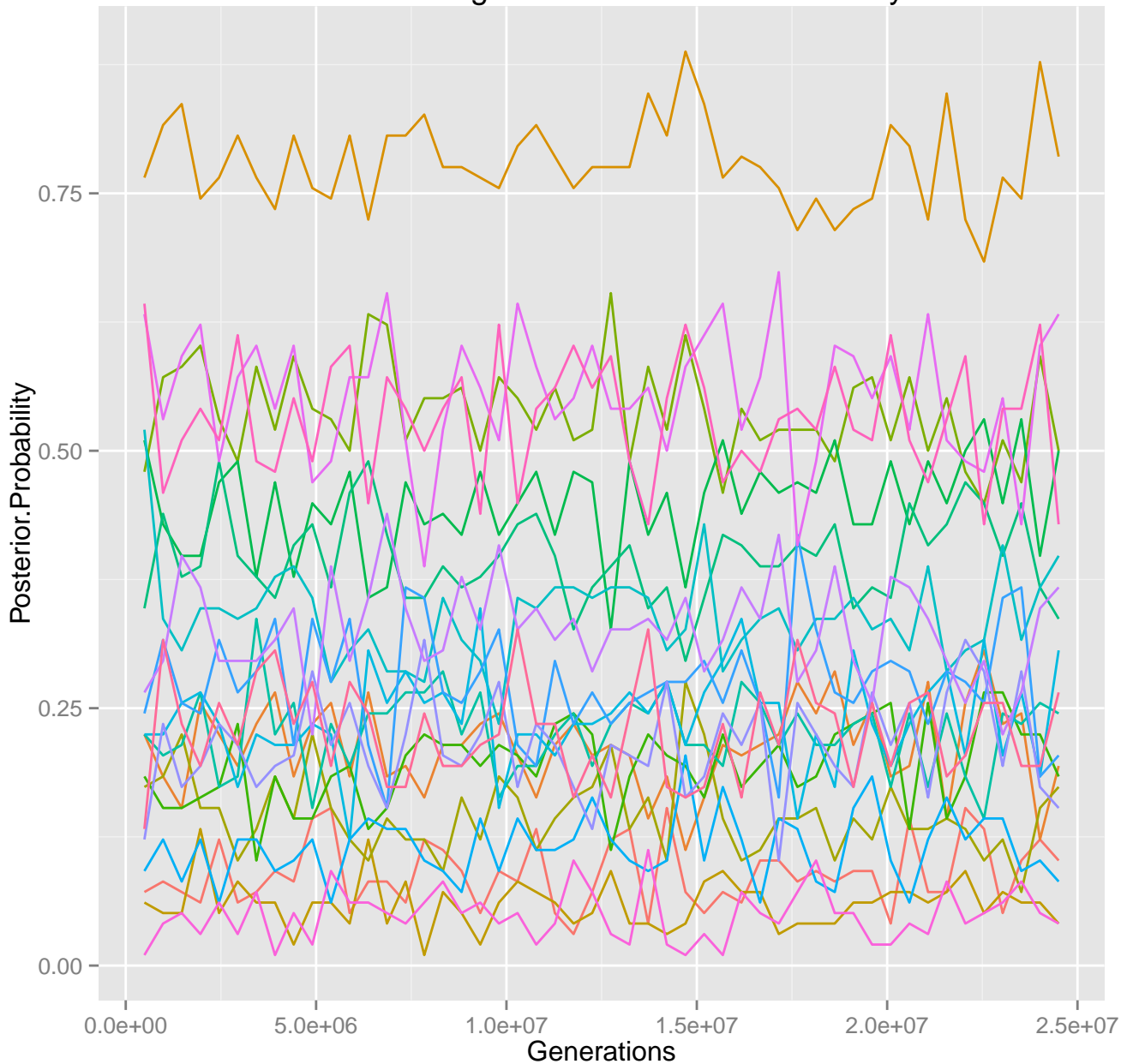
Run.3 Sliding Window Variance



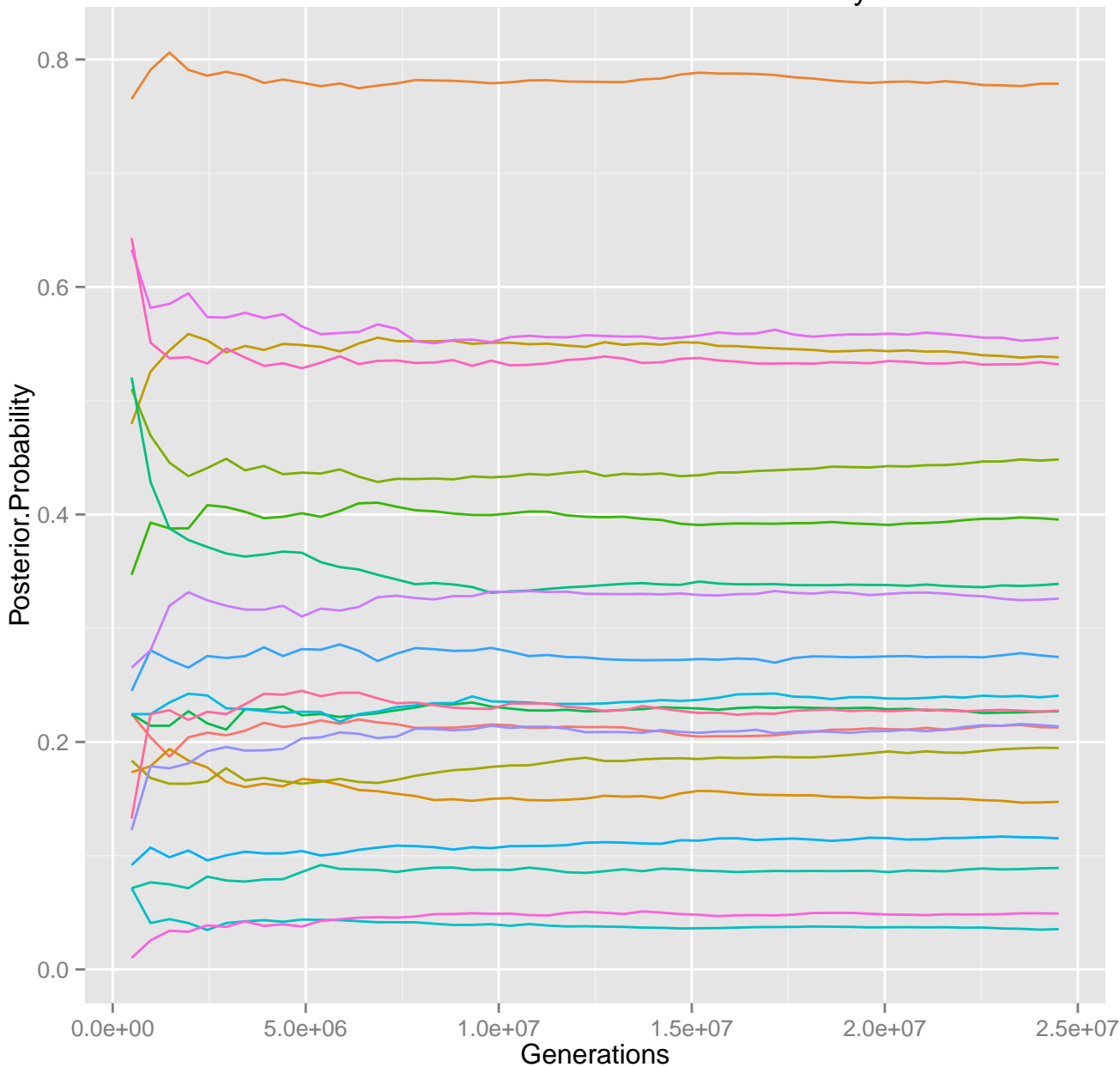
# Run.3 Cumulative Variance



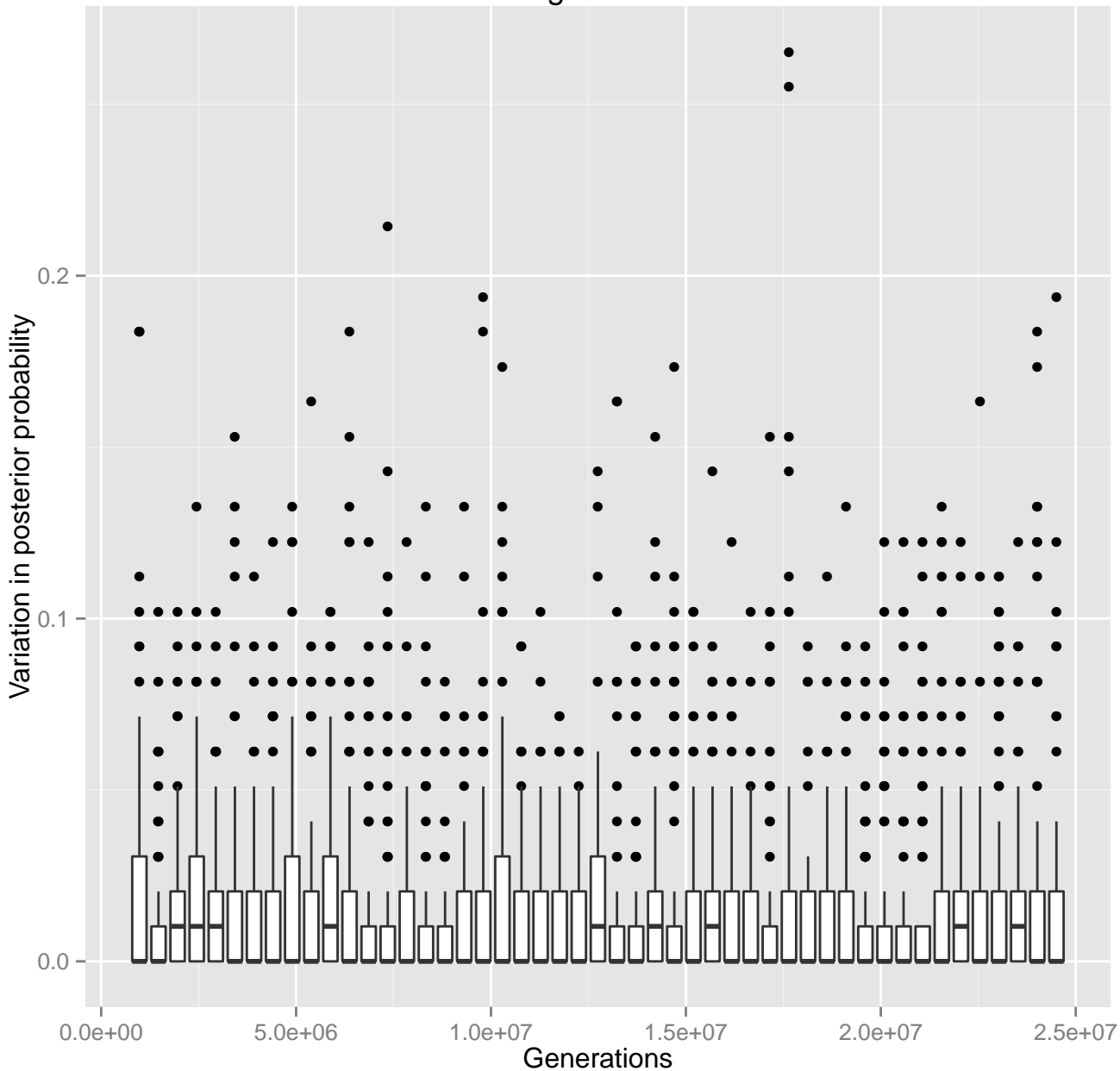
## Run.4 Sliding Window Posterior Probability



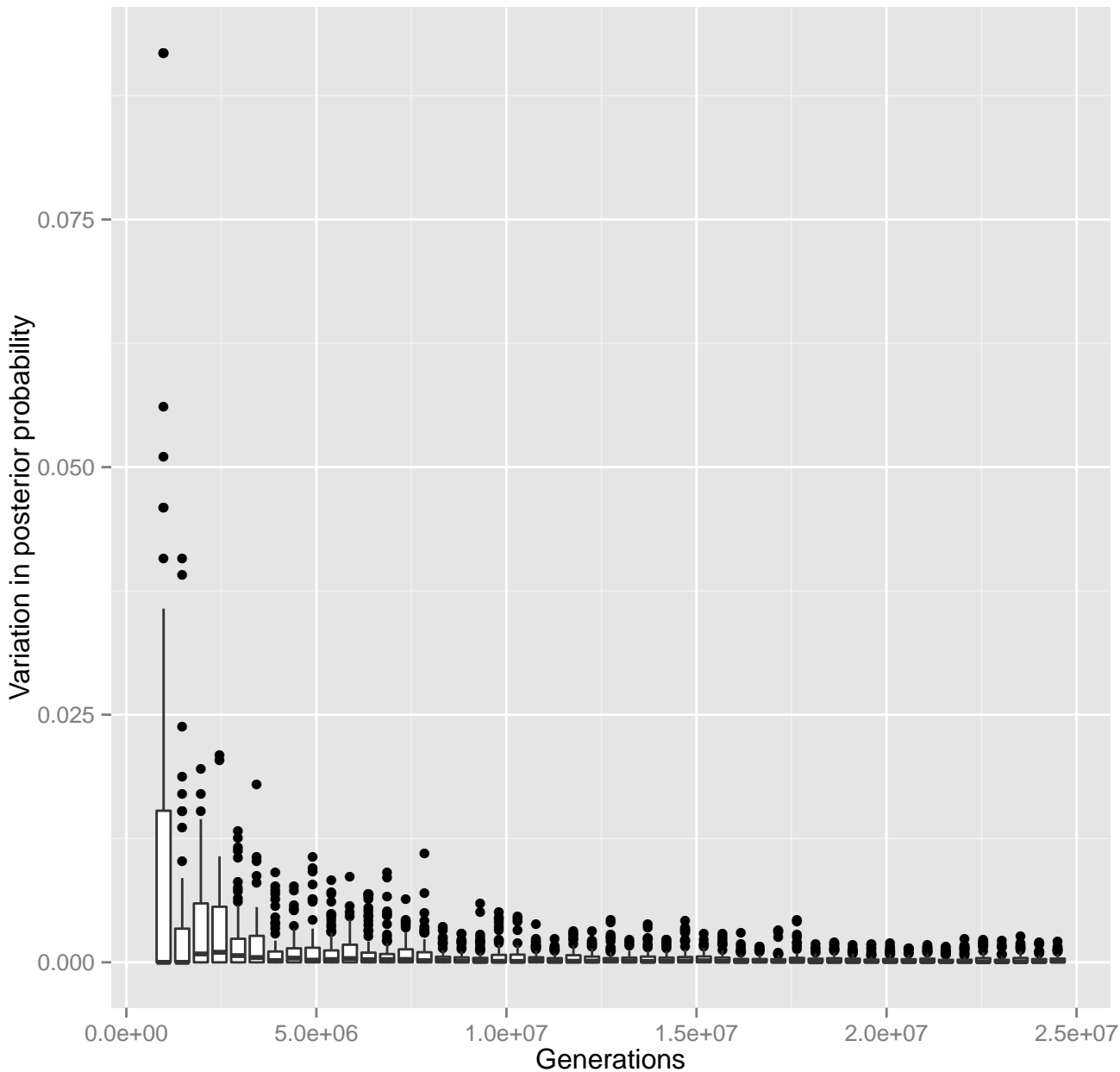
Run.4 Cumulative Posterior Probability



Run.4 Sliding Window Variance



Run.4 Cumulative Variance





Run.1

Correlation:

1

Discordance:

0.0025

Correlation:

1

Discordance:

0.00226

Correlation:

1

Discordance:

0.0027

Run.2

Correlation:

1

Discordance:

0.00231

Correlation:

1

Discordance:

0.00263

Run.3

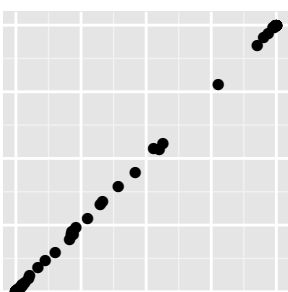
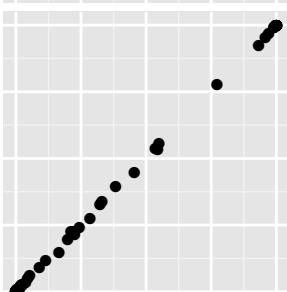
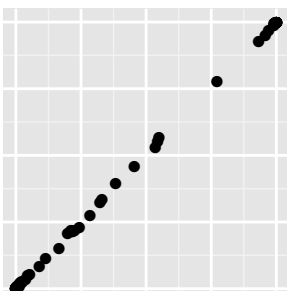
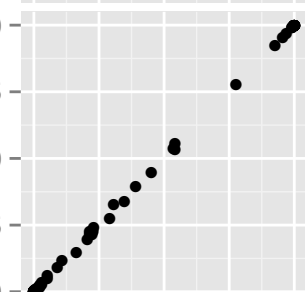
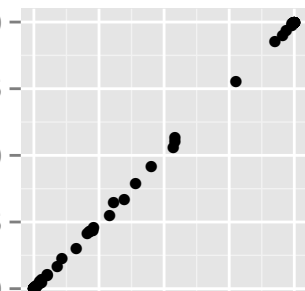
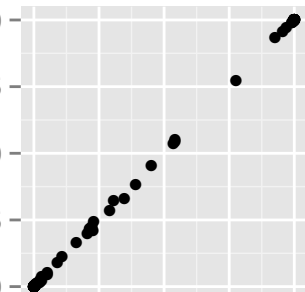
Correlation:

1

Discordance:

0.00231

Run.4



Run.1

Run.2

Run.3

Run.4



# Chains clustered by discordance

