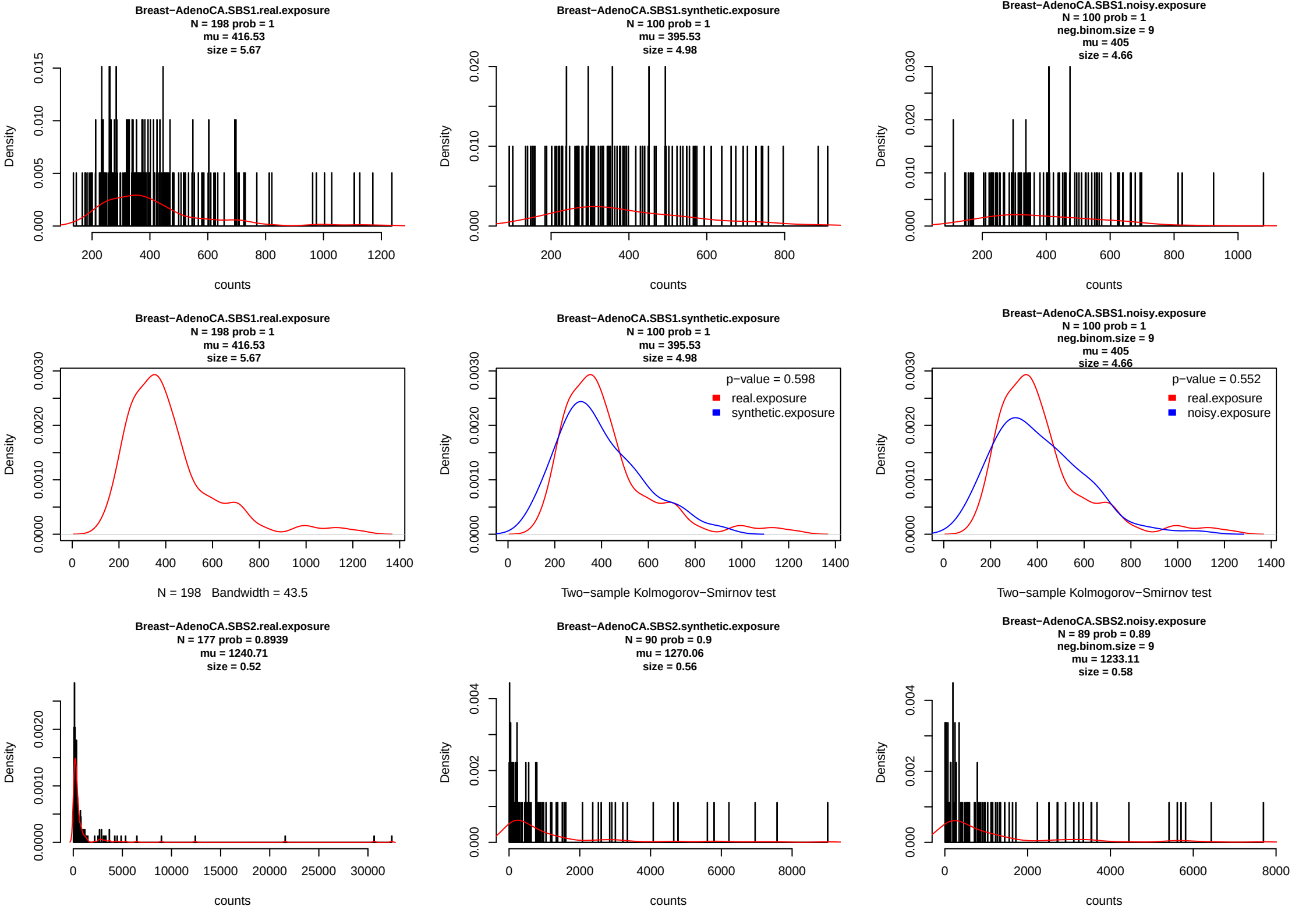
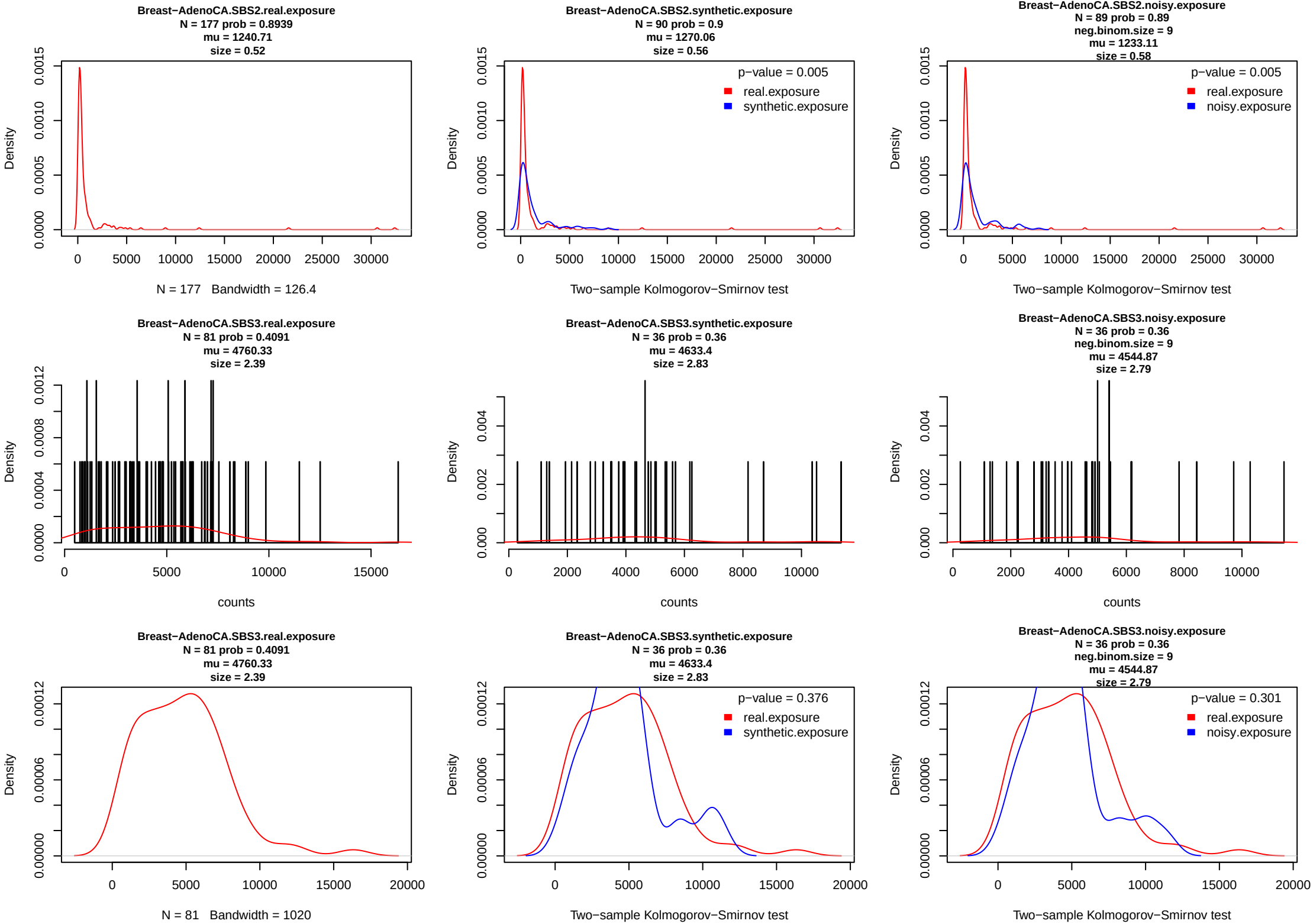
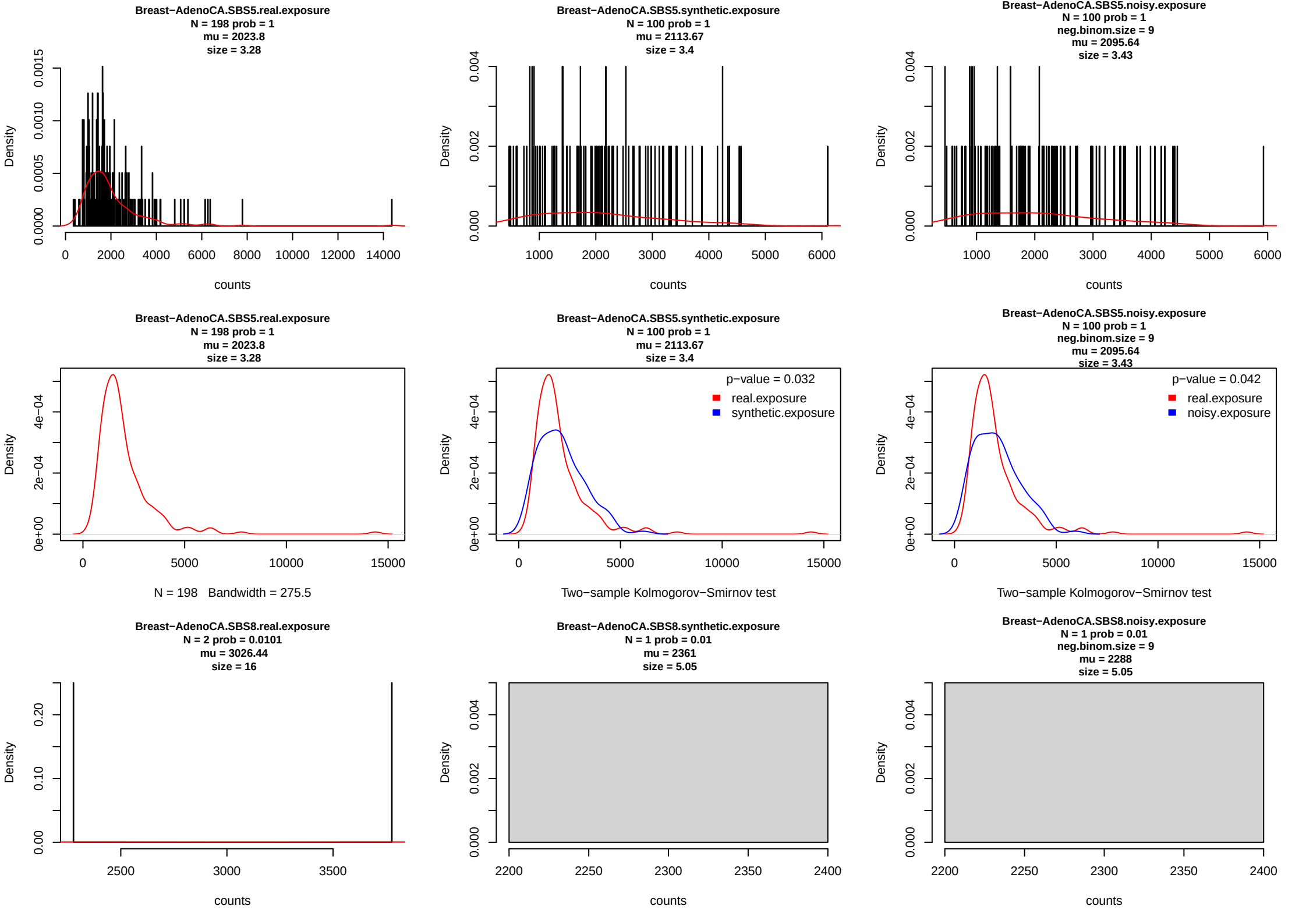
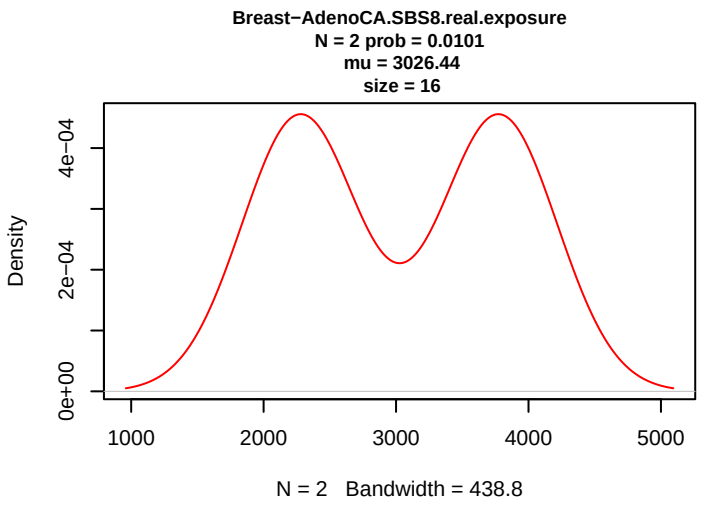
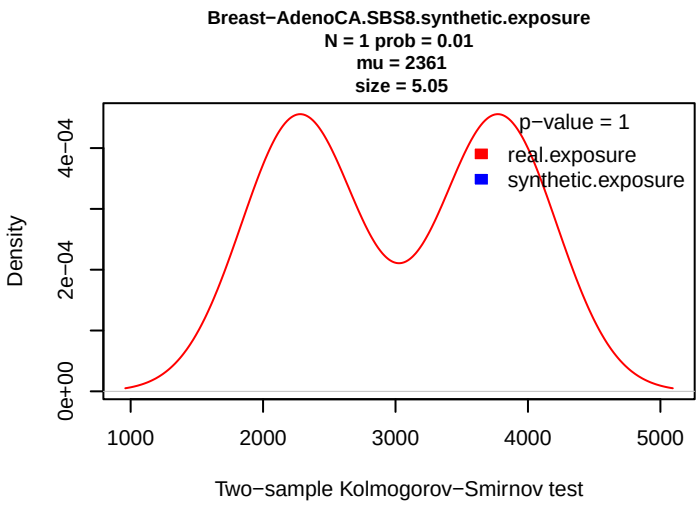
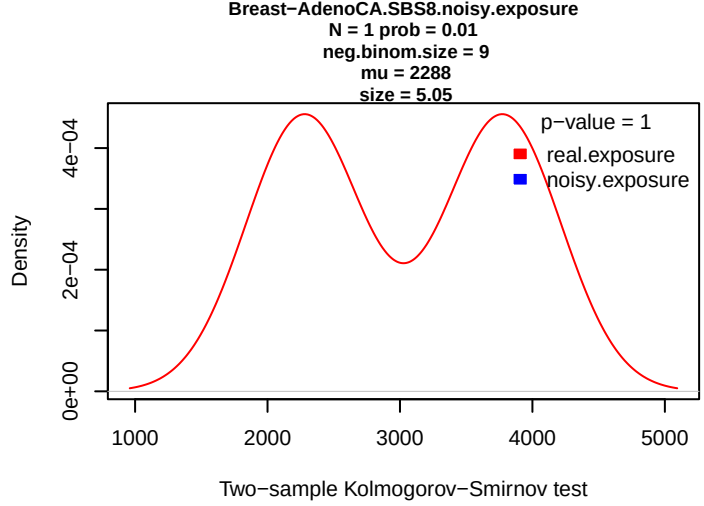

Breast−AdenoCA.SBS1.real.exposure
N = 198 prob = 1
mu = 416.53
size = 5.67
Breast−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 395.53
size = 4.98
Breast−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 405
size = 4.66
Density
counts
N = 198 Bandwidth = 43.5
p−value = 0.598
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.552
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS2.real.exposure
N = 177 prob = 0.8939
mu = 1240.71
size = 0.52
Breast−AdenoCA.SBS2.synthetic.exposure
N = 90 prob = 0.9
mu = 1270.06
size = 0.56
Breast−AdenoCA.SBS2.noisy.exposure
N = 89 prob = 0.89
neg.binom.size = 9
mu = 1233.11
size = 0.58

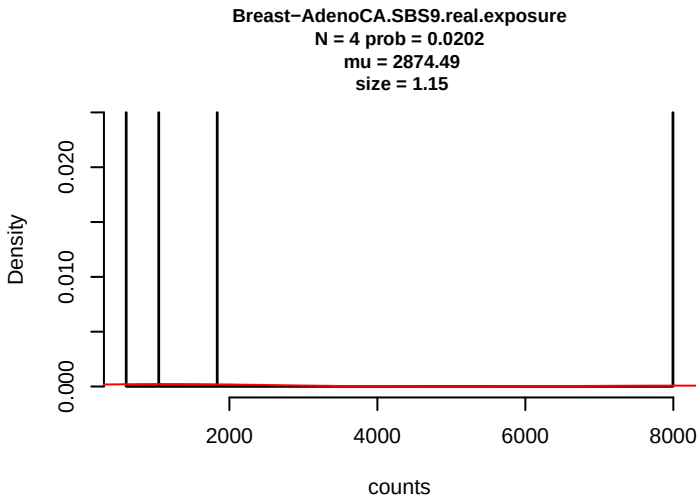

Breast−AdenoCA.SBS2.real.exposure
N = 177 prob = 0.8939
mu = 1240.71
size = 0.52
Density
N = 177 Bandwidth = 126.4
Breast−AdenoCA.SBS2.synthetic.exposure
N = 90 prob = 0.9
mu = 1270.06
size = 0.56
p−value = 0.005
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS2.noisy.exposure
N = 89 prob = 0.89
neg.binom.size = 9
mu = 1233.11
size = 0.58
p−value = 0.005
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS3.real.exposure
N = 81 prob = 0.4091
mu = 4760.33
size = 2.39
counts
Breast−AdenoCA.SBS3.synthetic.exposure
N = 36 prob = 0.36
mu = 4633.4
size = 2.83
counts
Breast−AdenoCA.SBS3.noisy.exposure
N = 36 prob = 0.36
neg.binom.size = 9
mu = 4544.87
size = 2.79
counts
Breast−AdenoCA.SBS3.real.exposure
N = 81 prob = 0.4091
mu = 4760.33
size = 2.39
N = 81 Bandwidth = 1020
Breast−AdenoCA.SBS3.synthetic.exposure
N = 36 prob = 0.36
mu = 4633.4
size = 2.83
p−value = 0.376
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS3.noisy.exposure
N = 36 prob = 0.36
neg.binom.size = 9
mu = 4544.87
size = 2.79
p−value = 0.301
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

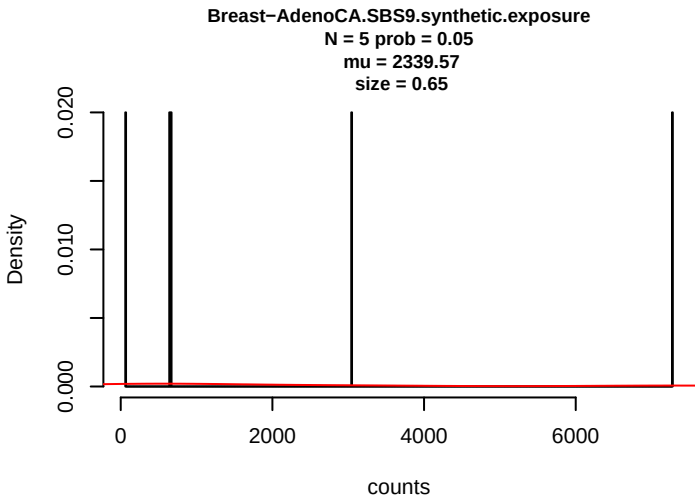

Breast−AdenoCA.SBS5.real.exposure
N = 198 prob = 1
mu = 2023.8
size = 3.28
Density
counts
Breast−AdenoCA.SBS5.synthetic.exposure
N = 100 prob = 1
mu = 2113.67
size = 3.4
Density
counts
Breast−AdenoCA.SBS5.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 2095.64
size = 3.43
Density
counts
Breast−AdenoCA.SBS5.real.exposure
N = 198 prob = 1
mu = 2023.8
size = 3.28
Density
N = 198 Bandwidth = 275.5
Breast−AdenoCA.SBS5.synthetic.exposure
N = 100 prob = 1
mu = 2113.67
size = 3.4
p−value = 0.032
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS5.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 2095.64
size = 3.43
p−value = 0.042
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS8.real.exposure
N = 2 prob = 0.0101
mu = 3026.44
size = 16
Density
counts
Breast−AdenoCA.SBS8.synthetic.exposure
N = 1 prob = 0.01
mu = 2361
size = 5.05
Density
counts
Breast−AdenoCA.SBS8.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 2288
size = 5.05
Density
counts

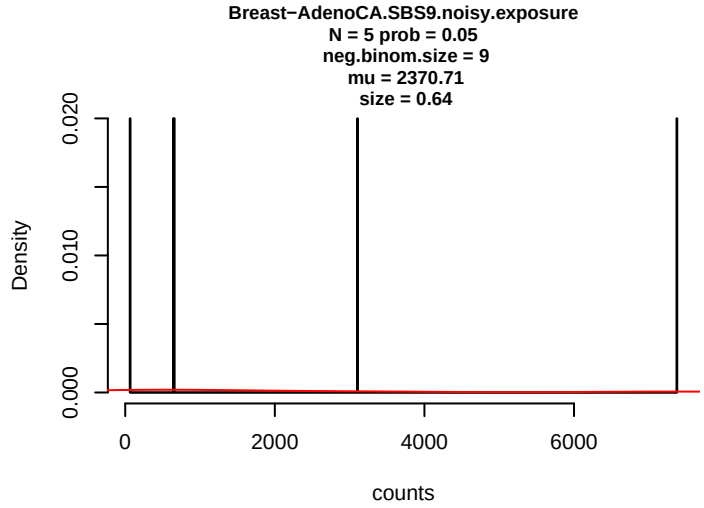

Breast−AdenoCA.SBS8.real.exposure
N = 2 prob = 0.0101
mu = 3026.44
size = 16
Density
N = 2 Bandwidth = 438.8

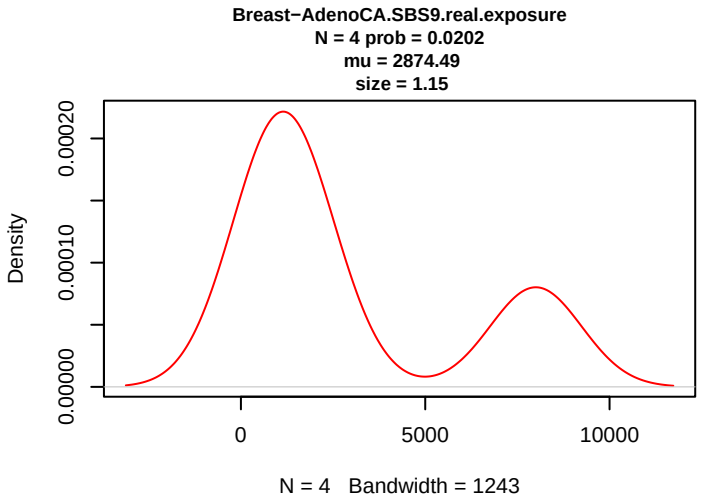

Breast−AdenoCA.SBS8.synthetic.exposure
N = 1 prob = 0.01
mu = 2361
size = 5.05
p−value = 1
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test

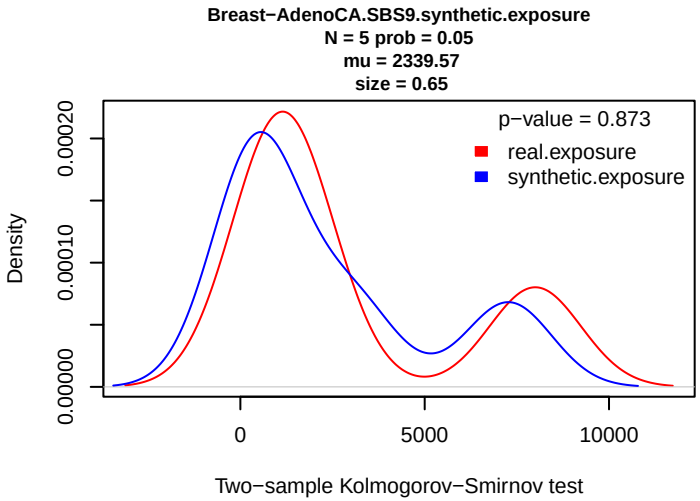

Breast−AdenoCA.SBS8.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 2288
size = 5.05
p−value = 1
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

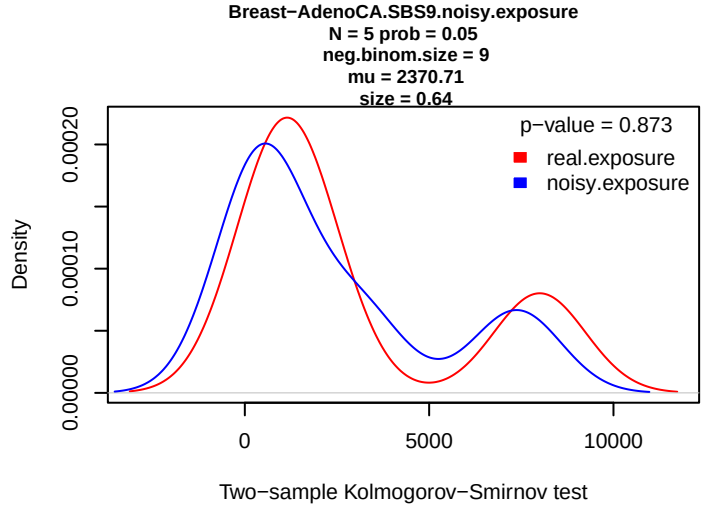

Breast−AdenoCA.SBS9.real.exposure
N = 4 prob = 0.0202
mu = 2874.49
size = 1.15
Density
counts

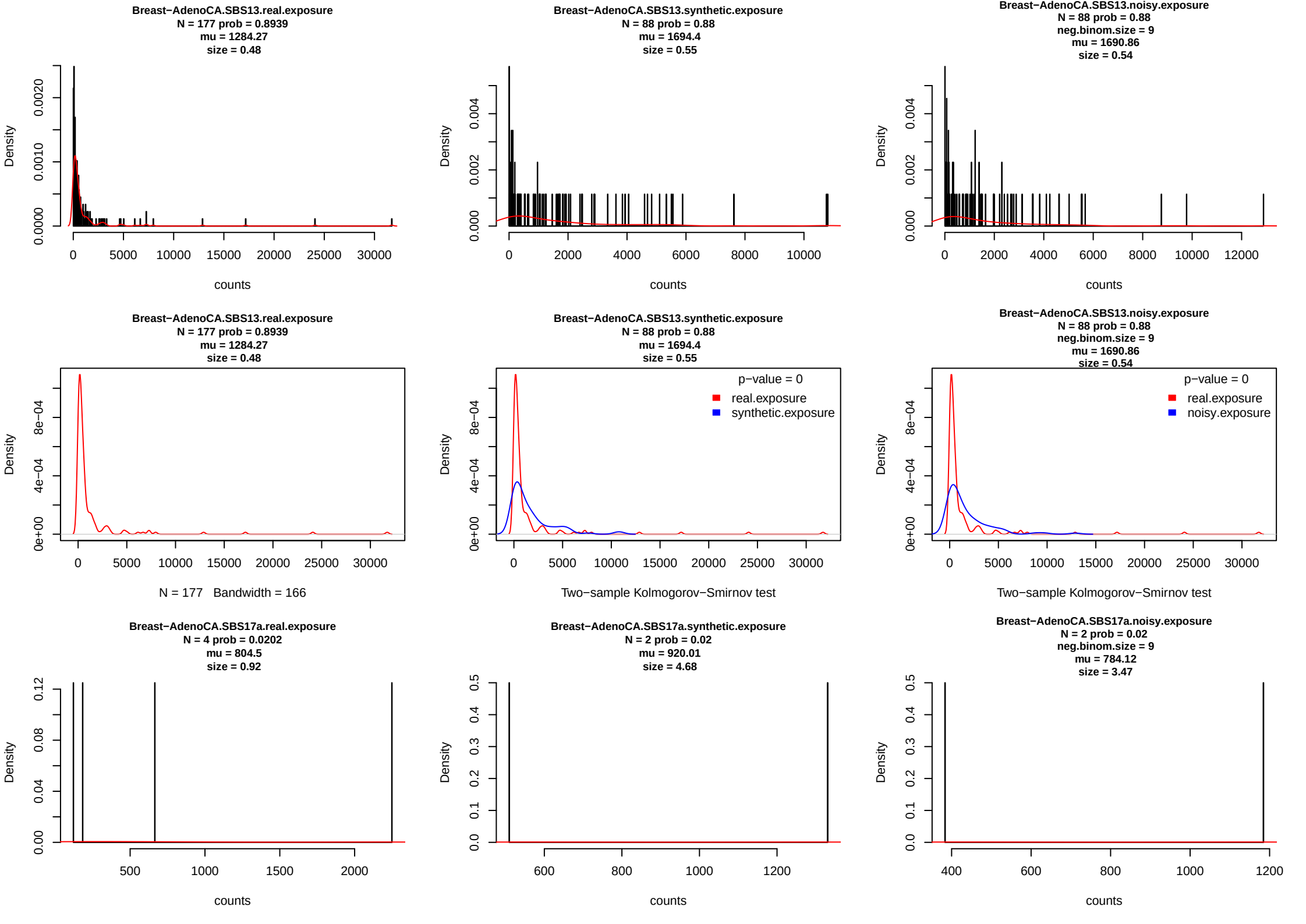

Breast−AdenoCA.SBS9.synthetic.exposure
N = 5 prob = 0.05
mu = 2339.57
size = 0.65
Density
counts

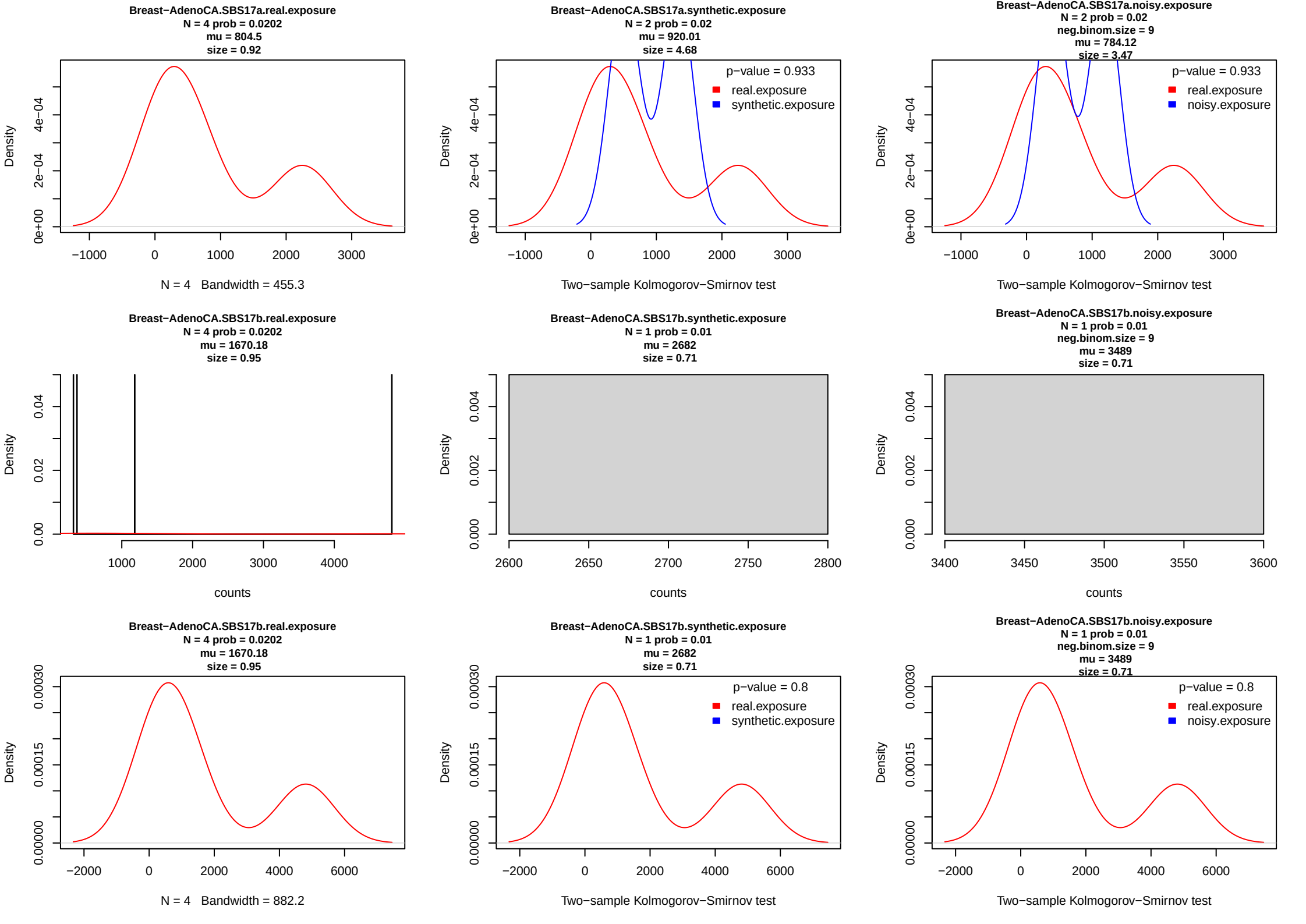

Breast−AdenoCA.SBS9.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 2370.71
size = 0.64
Density
counts

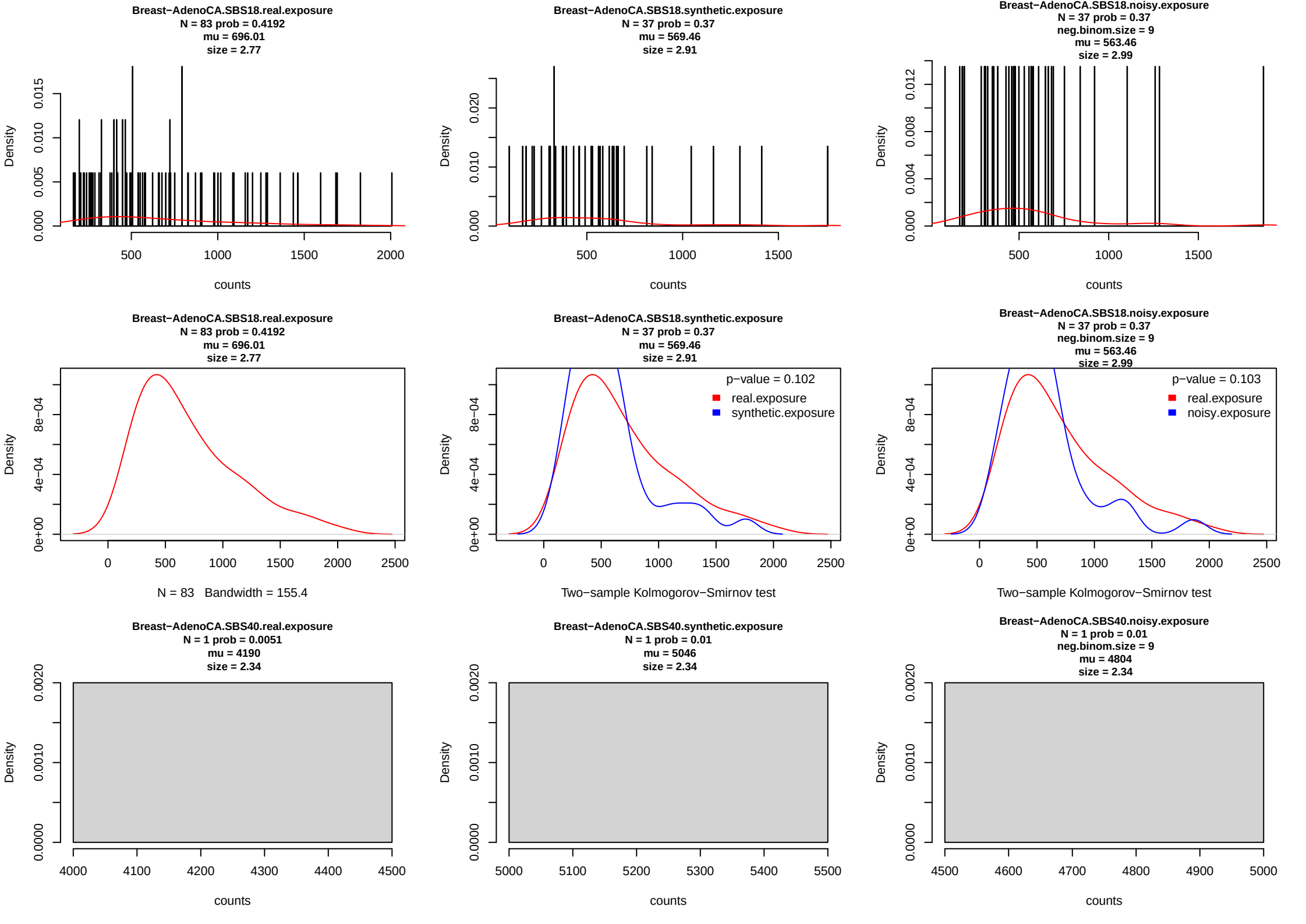

Breast−AdenoCA.SBS9.real.exposure
N = 4 prob = 0.0202
mu = 2874.49
size = 1.15
Density
N = 4 Bandwidth = 1243

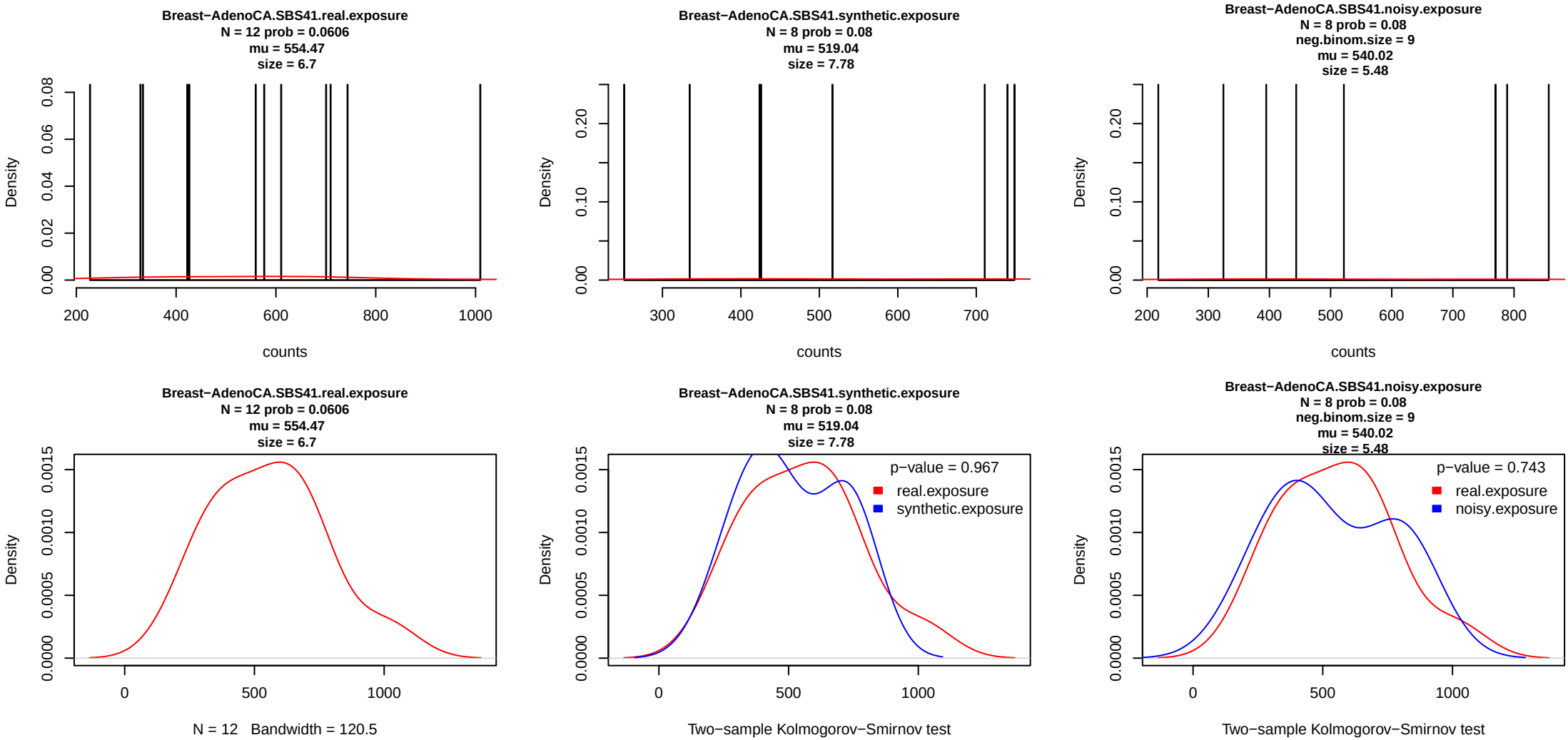

Breast−AdenoCA.SBS9.synthetic.exposure
N = 5 prob = 0.05
mu = 2339.57
size = 0.65
p−value = 0.873
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test

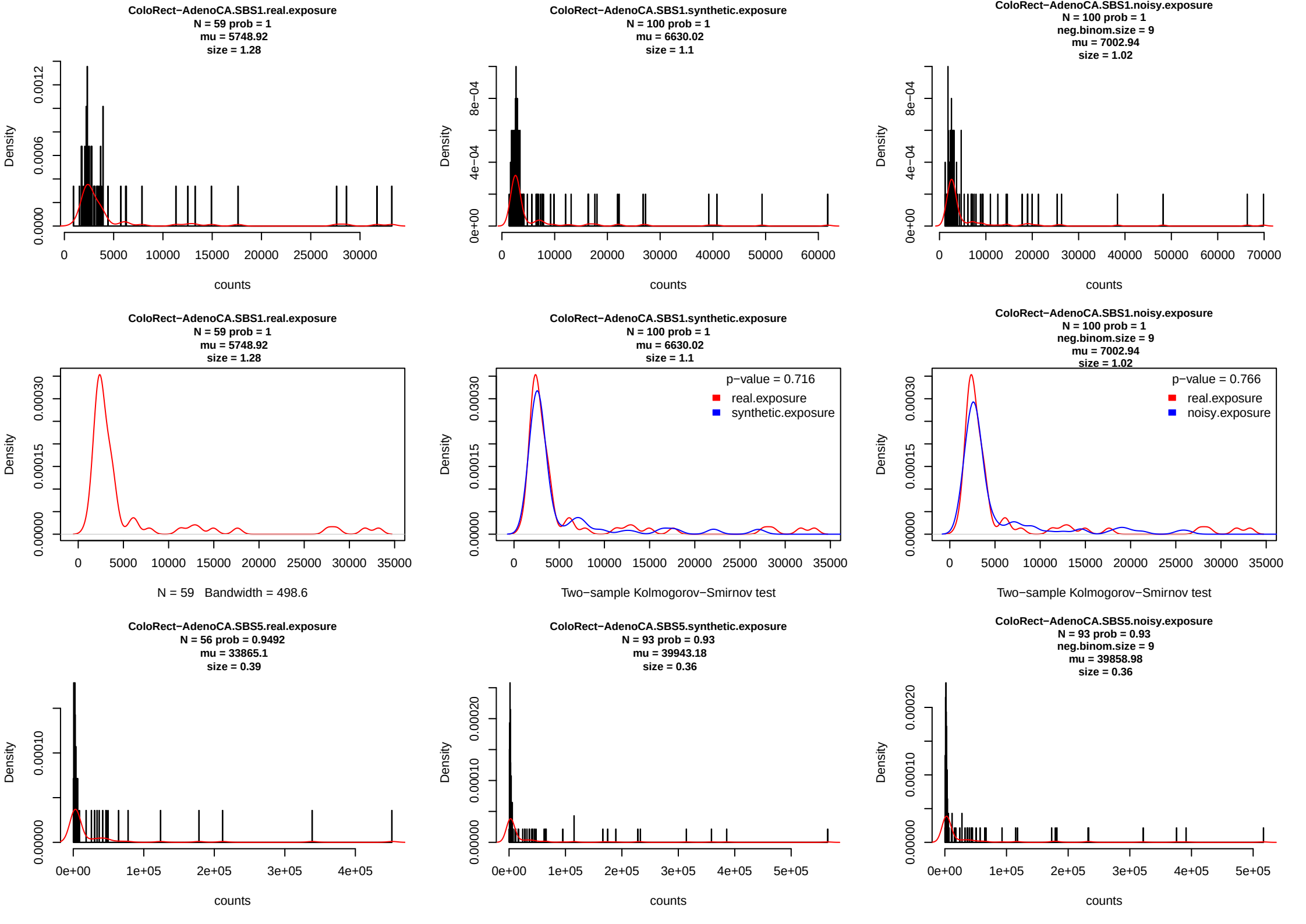

Breast−AdenoCA.SBS9.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 2370.71
size = 0.64
p−value = 0.873
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

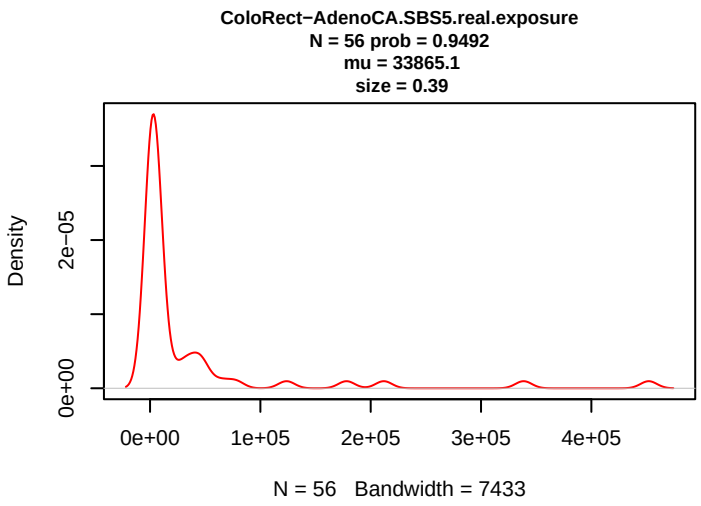

Breast−AdenoCA.SBS13.real.exposure
N = 177 prob = 0.8939
mu = 1284.27
size = 0.48
Breast−AdenoCA.SBS13.synthetic.exposure
N = 88 prob = 0.88
mu = 1694.4
size = 0.55
Breast−AdenoCA.SBS13.noisy.exposure
N = 88 prob = 0.88
neg.binom.size = 9
mu = 1690.86
size = 0.54
Density
counts
N = 177 Bandwidth = 166
p−value = 0
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS17a.real.exposure
N = 4 prob = 0.0202
mu = 804.5
size = 0.92
Breast−AdenoCA.SBS17a.synthetic.exposure
N = 2 prob = 0.02
mu = 920.01
size = 4.68
Breast−AdenoCA.SBS17a.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 784.12
size = 3.47

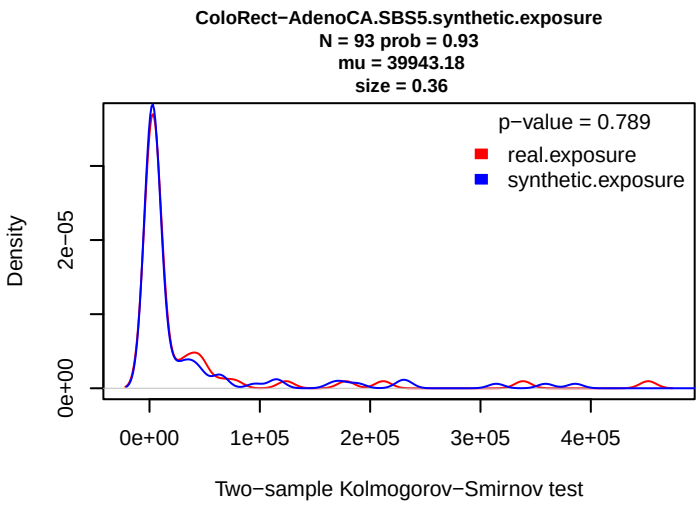

Breast−AdenoCA.SBS17a.real.exposure
N = 4 prob = 0.0202
mu = 804.5
size = 0.92
Density
N = 4 Bandwidth = 455.3
Breast−AdenoCA.SBS17a.synthetic.exposure
N = 2 prob = 0.02
mu = 920.01
size = 4.68
p−value = 0.933
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS17a.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 784.12
size = 3.47
p−value = 0.933
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS17b.real.exposure
N = 4 prob = 0.0202
mu = 1670.18
size = 0.95
counts
Breast−AdenoCA.SBS17b.synthetic.exposure
N = 1 prob = 0.01
mu = 2682
size = 0.71
counts
Breast−AdenoCA.SBS17b.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 3489
size = 0.71
counts
Breast−AdenoCA.SBS17b.real.exposure
N = 4 prob = 0.0202
mu = 1670.18
size = 0.95
N = 4 Bandwidth = 882.2
Breast−AdenoCA.SBS17b.synthetic.exposure
N = 1 prob = 0.01
mu = 2682
size = 0.71
p−value = 0.8
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS17b.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 3489
size = 0.71
p−value = 0.8
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

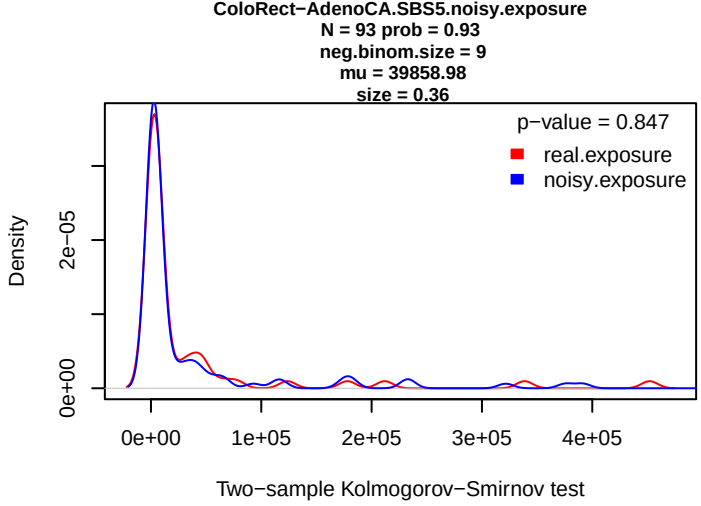

Breast−AdenoCA.SBS18.real.exposure
N = 83 prob = 0.4192
mu = 696.01
size = 2.77
Breast−AdenoCA.SBS18.synthetic.exposure
N = 37 prob = 0.37
mu = 569.46
size = 2.91
Breast−AdenoCA.SBS18.noisy.exposure
N = 37 prob = 0.37
neg.binom.size = 9
mu = 563.46
size = 2.99
Density
counts
N = 83 Bandwidth = 155.4
p−value = 0.102
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.103
noisy.exposure
Breast−AdenoCA.SBS40.real.exposure
N = 1 prob = 0.0051
mu = 4190
size = 2.34
Breast−AdenoCA.SBS40.synthetic.exposure
N = 1 prob = 0.01
mu = 5046
size = 2.34
Breast−AdenoCA.SBS40.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 4804
size = 2.34

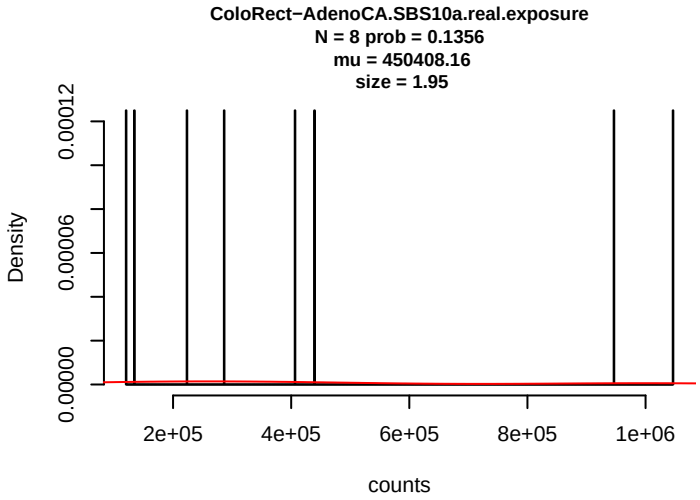

Breast−AdenoCA.SBS41.real.exposure
N = 12 prob = 0.0606
mu = 554.47
size = 6.7
Density
counts
Breast−AdenoCA.SBS41.synthetic.exposure
N = 8 prob = 0.08
mu = 519.04
size = 7.78
Density
counts
Breast−AdenoCA.SBS41.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 540.02
size = 5.48
Density
counts
Breast−AdenoCA.SBS41.real.exposure
N = 12 prob = 0.0606
mu = 554.47
size = 6.7
Density
N = 12 Bandwidth = 120.5
Breast−AdenoCA.SBS41.synthetic.exposure
N = 8 prob = 0.08
mu = 519.04
size = 7.78
p−value = 0.967
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Breast−AdenoCA.SBS41.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 540.02
size = 5.48
p−value = 0.743
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

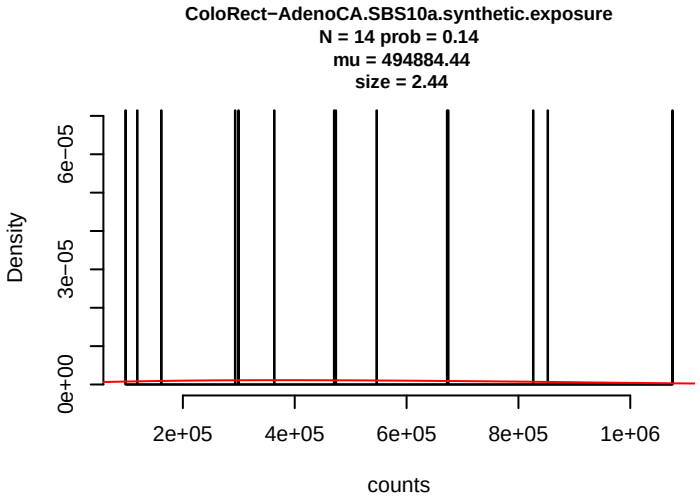

ColoRect−AdenoCA.SBS1.real.exposure
N = 59 prob = 1
mu = 5748.92
size = 1.28
ColoRect−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 6630.02
size = 1.1
ColoRect−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 7002.94
size = 1.02
Density
counts
ColoRect−AdenoCA.SBS1.real.exposure
N = 59 prob = 1
mu = 5748.92
size = 1.28
N = 59 Bandwidth = 498.6
ColoRect−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 6630.02
size = 1.1
p−value = 0.716
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 7002.94
size = 1.02
p−value = 0.766
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS5.real.exposure
N = 56 prob = 0.9492
mu = 33865.1
size = 0.39
ColoRect−AdenoCA.SBS5.synthetic.exposure
N = 93 prob = 0.93
mu = 39943.18
size = 0.36
ColoRect−AdenoCA.SBS5.noisy.exposure
N = 93 prob = 0.93
neg.binom.size = 9
mu = 39858.98
size = 0.36

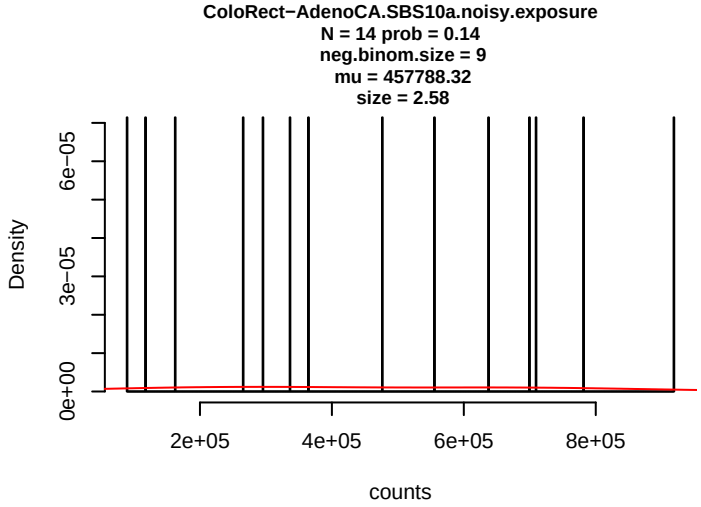

ColoRect−AdenoCA.SBS5.real.exposure
N = 56 prob = 0.9492
mu = 33865.1
size = 0.39
Density
0e+00
2e−05
0e+00
1e+05
2e+05
3e+05
4e+05
N = 56 Bandwidth = 7433

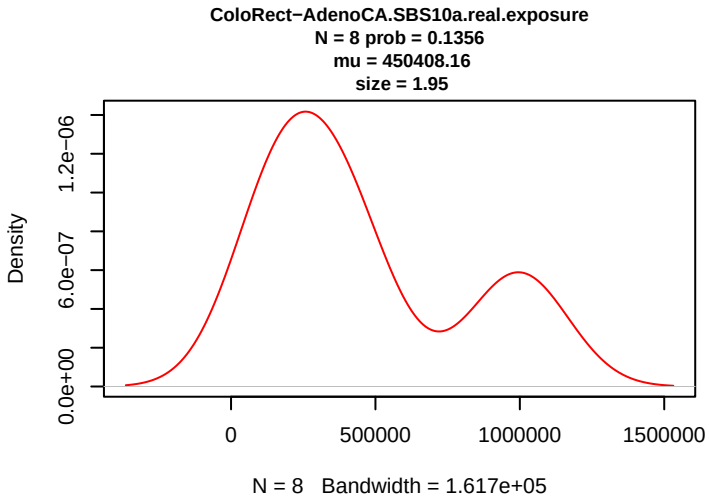

ColoRect−AdenoCA.SBS5.synthetic.exposure
N = 93 prob = 0.93
mu = 39943.18
size = 0.36
p−value = 0.789
real.exposure
synthetic.exposure
Density
0e+00
2e−05
0e+00
1e+05
2e+05
3e+05
4e+05
Two−sample Kolmogorov−Smirnov test

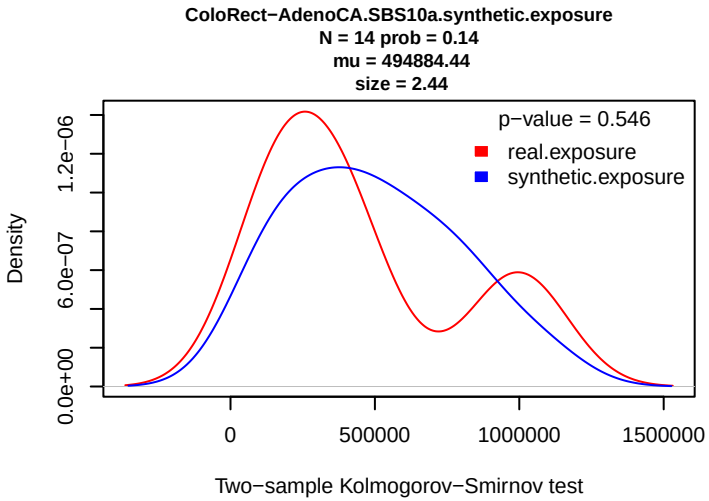

ColoRect−AdenoCA.SBS5.noisy.exposure
N = 93 prob = 0.93
neg.binom.size = 9
mu = 39858.98
size = 0.36
p−value = 0.847
real.exposure
noisy.exposure
Density
0e+00
2e−05
0e+00
1e+05
2e+05
3e+05
4e+05
Two−sample Kolmogorov−Smirnov test

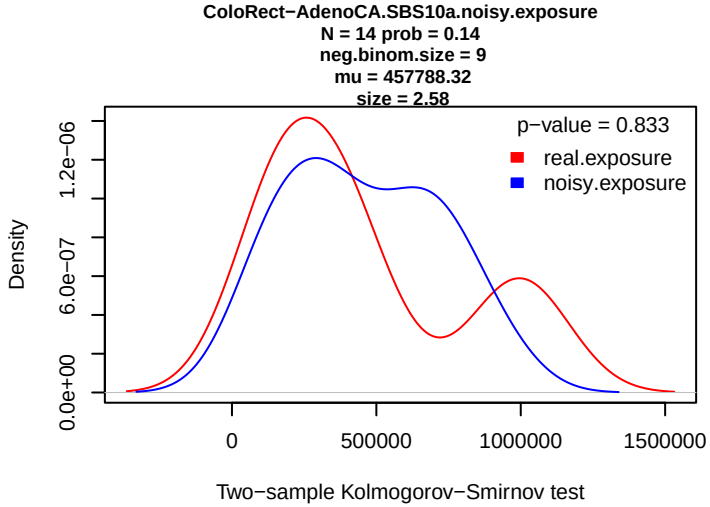

ColoRect−AdenoCA.SBS10a.real.exposure
N = 8 prob = 0.1356
mu = 450408.16
size = 1.95
Density
0.00000
0.00006
0.00012
2e+05
4e+05
6e+05
8e+05
1e+06
counts

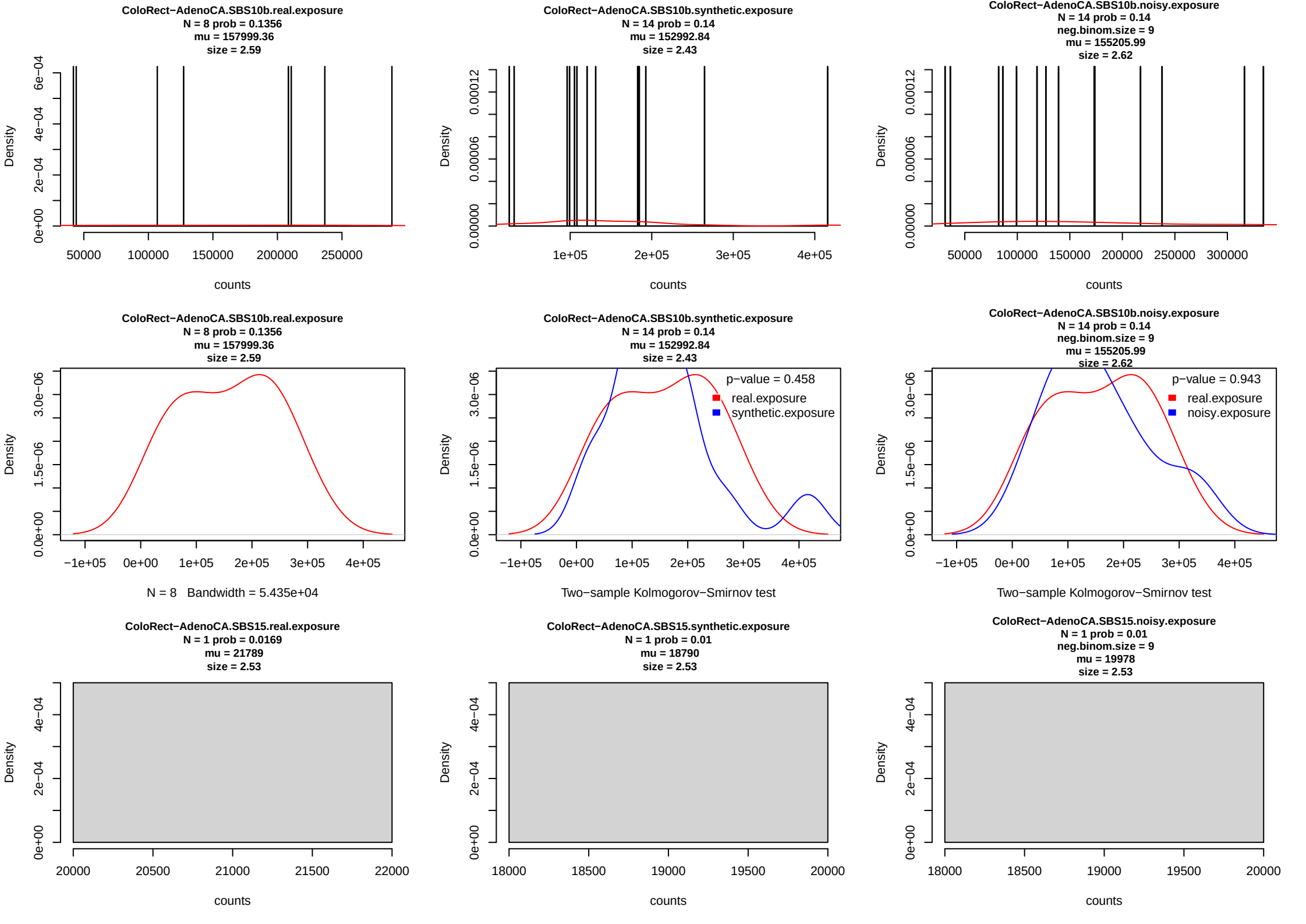

ColoRect−AdenoCA.SBS10a.synthetic.exposure
N = 14 prob = 0.14
mu = 494884.44
size = 2.44
Density
0e+00
3e−05
6e−05
2e+05
4e+05
6e+05
8e+05
1e+06
counts

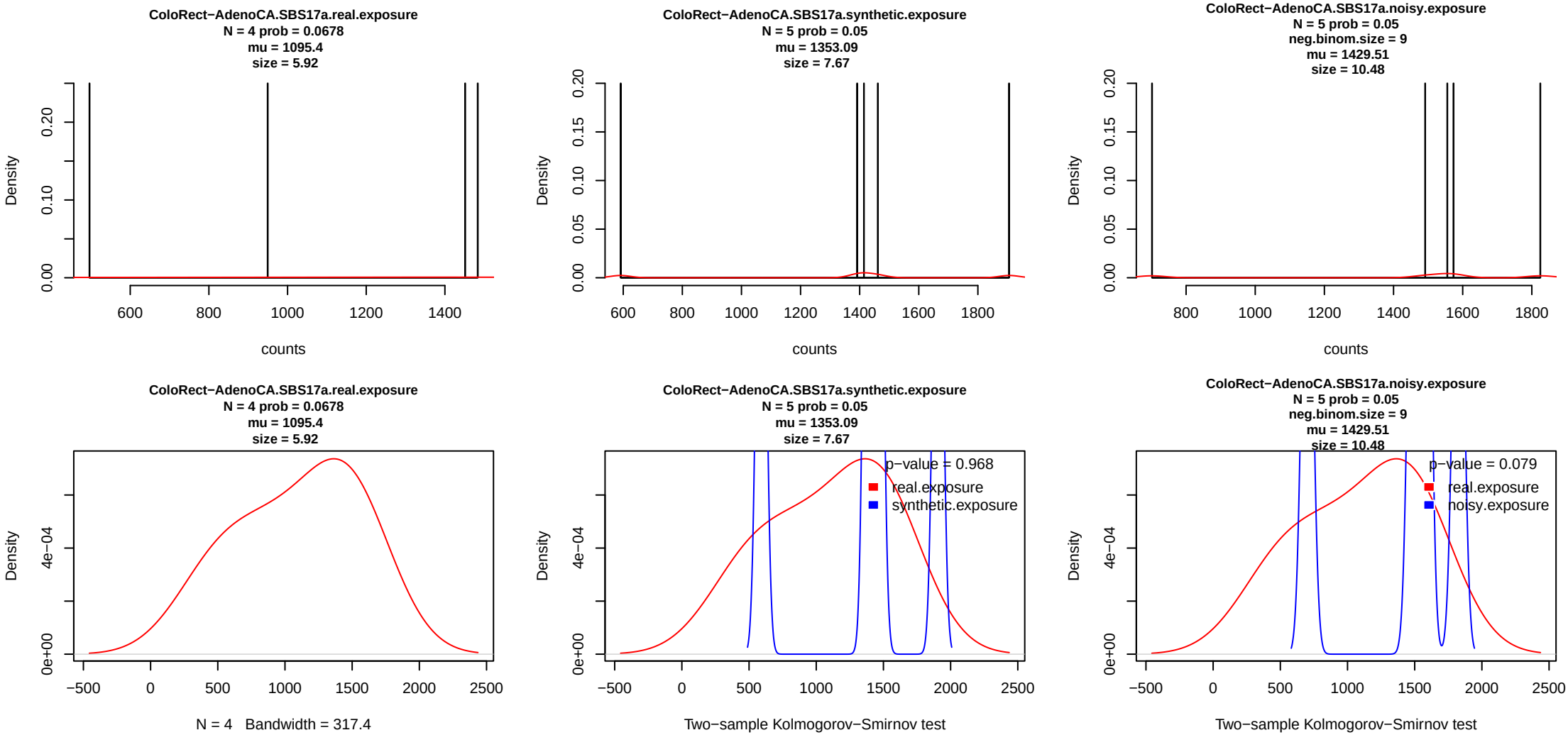

ColoRect−AdenoCA.SBS10a.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 457788.32
size = 2.58
Density
0e+00
3e−05
6e−05
2e+05
4e+05
6e+05
8e+05
counts

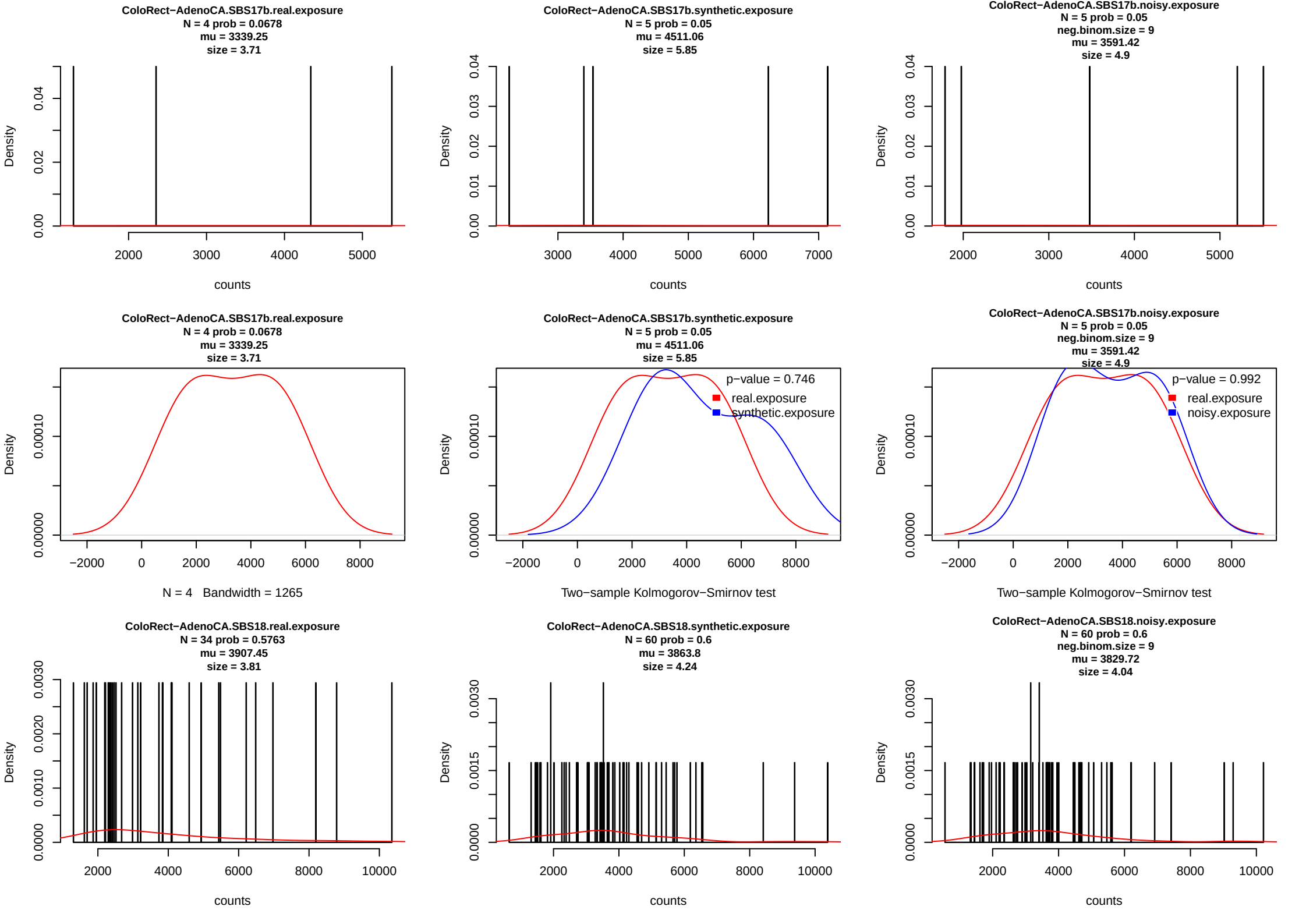

ColoRect−AdenoCA.SBS10a.real.exposure
N = 8 prob = 0.1356
mu = 450408.16
size = 1.95
Density
0.0e+00
6.0e−07
1.2e−06
0
500000
1000000
1500000
N = 8 Bandwidth = 1.617e+05

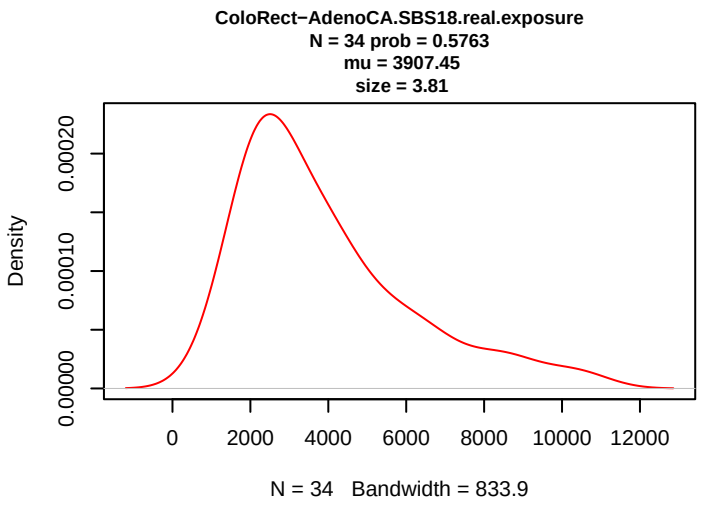

ColoRect−AdenoCA.SBS10a.synthetic.exposure
N = 14 prob = 0.14
mu = 494884.44
size = 2.44
p−value = 0.546
real.exposure
synthetic.exposure
Density
0.0e+00
6.0e−07
1.2e−06
0
500000
1000000
1500000
Two−sample Kolmogorov−Smirnov test

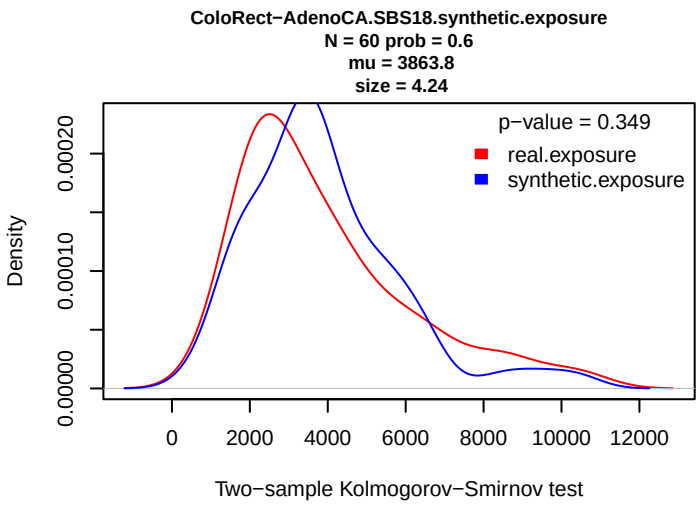

ColoRect−AdenoCA.SBS10a.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 457788.32
size = 2.58
p−value = 0.833
real.exposure
noisy.exposure
Density
0.0e+00
6.0e−07
1.2e−06
0
500000
1000000
1500000
Two−sample Kolmogorov−Smirnov test

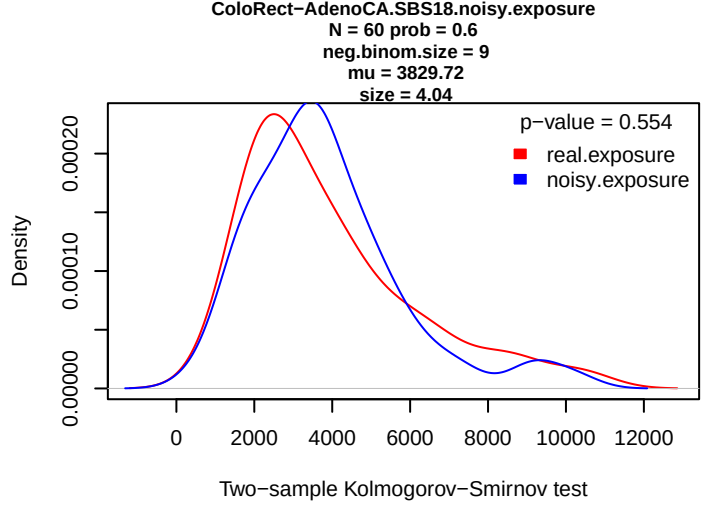

ColoRect−AdenoCA.SBS10b.real.exposure
N = 8 prob = 0.1356
mu = 157999.36
size = 2.59
ColoRect−AdenoCA.SBS10b.synthetic.exposure
N = 14 prob = 0.14
mu = 152992.84
size = 2.43
ColoRect−AdenoCA.SBS10b.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 155205.99
size = 2.62
Density
counts
ColoRect−AdenoCA.SBS10b.real.exposure
N = 8 prob = 0.1356
mu = 157999.36
size = 2.59
N = 8 Bandwidth = 5.435e+04
ColoRect−AdenoCA.SBS10b.synthetic.exposure
N = 14 prob = 0.14
mu = 152992.84
size = 2.43
p−value = 0.458
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS10b.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 155205.99
size = 2.62
p−value = 0.943
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS15.real.exposure
N = 1 prob = 0.0169
mu = 21789
size = 2.53
ColoRect−AdenoCA.SBS15.synthetic.exposure
N = 1 prob = 0.01
mu = 18790
size = 2.53
ColoRect−AdenoCA.SBS15.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 19978
size = 2.53

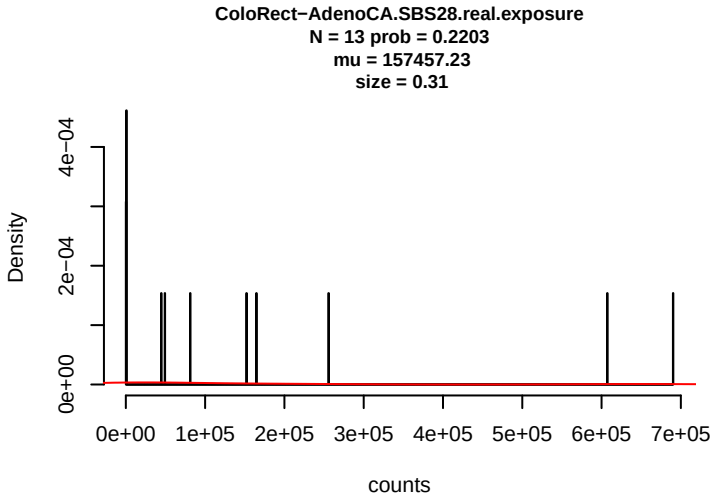

ColoRect−AdenoCA.SBS17a.real.exposure
N = 4 prob = 0.0678
mu = 1095.4
size = 5.92
Density
counts
ColoRect−AdenoCA.SBS17a.synthetic.exposure
N = 5 prob = 0.05
mu = 1353.09
size = 7.67
Density
counts
ColoRect−AdenoCA.SBS17a.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 1429.51
size = 10.48
Density
counts
ColoRect−AdenoCA.SBS17a.real.exposure
N = 4 prob = 0.0678
mu = 1095.4
size = 5.92
Density
N = 4 Bandwidth = 317.4
ColoRect−AdenoCA.SBS17a.synthetic.exposure
N = 5 prob = 0.05
mu = 1353.09
size = 7.67
p−value = 0.968
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS17a.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 1429.51
size = 10.48
p−value = 0.079
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

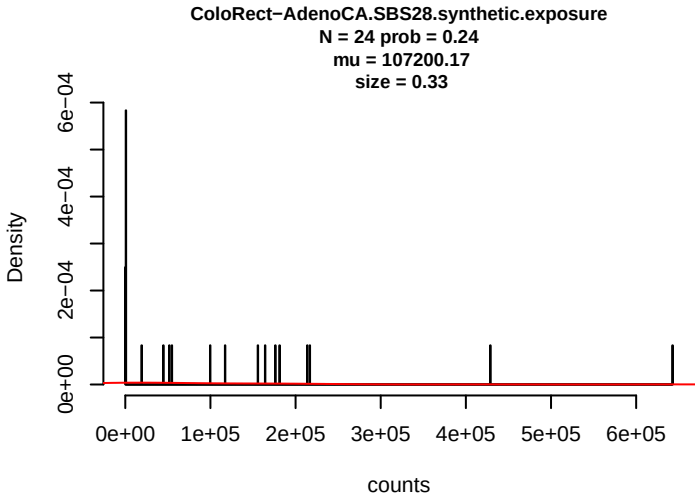

ColoRect−AdenoCA.SBS17b.real.exposure
N = 4 prob = 0.0678
mu = 3339.25
size = 3.71
ColoRect−AdenoCA.SBS17b.synthetic.exposure
N = 5 prob = 0.05
mu = 4511.06
size = 5.85
ColoRect−AdenoCA.SBS17b.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 3591.42
size = 4.9
Density
counts
N = 4 Bandwidth = 1265
p−value = 0.746
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.992
real.exposure
noisy.exposure
ColoRect−AdenoCA.SBS18.real.exposure
N = 34 prob = 0.5763
mu = 3907.45
size = 3.81
ColoRect−AdenoCA.SBS18.synthetic.exposure
N = 60 prob = 0.6
mu = 3863.8
size = 4.24
ColoRect−AdenoCA.SBS18.noisy.exposure
N = 60 prob = 0.6
neg.binom.size = 9
mu = 3829.72
size = 4.04

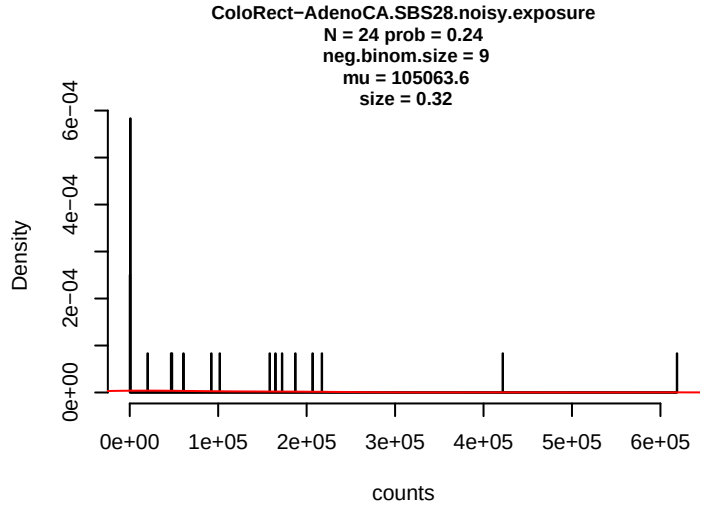

ColoRect−AdenoCA.SBS18.real.exposure
N = 34 prob = 0.5763
mu = 3907.45
size = 3.81
Density
0.00000
0.00010
0.00020
0
2000
4000
6000
8000
10000
12000
N = 34 Bandwidth = 833.9

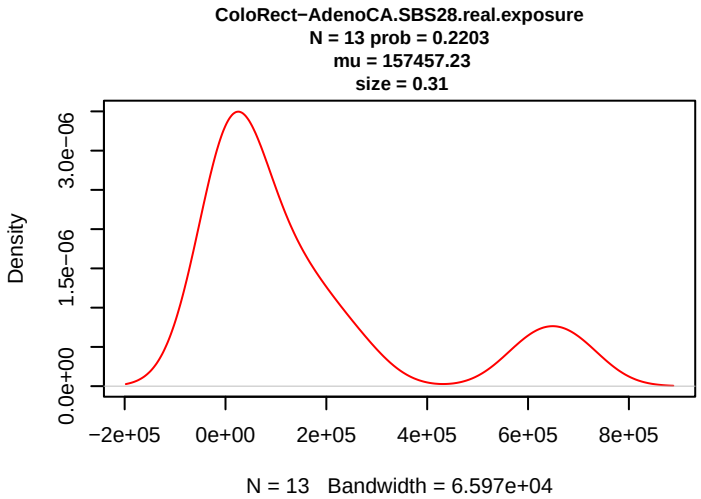

ColoRect−AdenoCA.SBS18.synthetic.exposure
N = 60 prob = 0.6
mu = 3863.8
size = 4.24
p−value = 0.349
real.exposure
synthetic.exposure
Density
0.00000
0.00010
0.00020
0
2000
4000
6000
8000
10000
12000
Two−sample Kolmogorov−Smirnov test

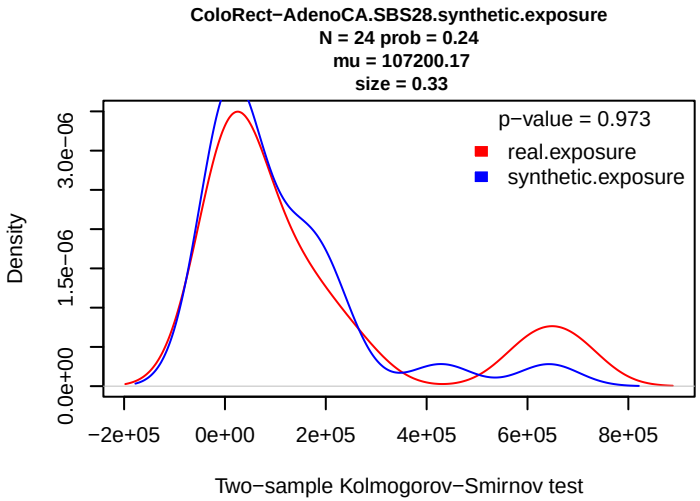

ColoRect−AdenoCA.SBS18.noisy.exposure
N = 60 prob = 0.6
neg.binom.size = 9
mu = 3829.72
size = 4.04
p−value = 0.554
real.exposure
noisy.exposure
Density
0.00000
0.00010
0.00020
0
2000
4000
6000
8000
10000
12000
Two−sample Kolmogorov−Smirnov test

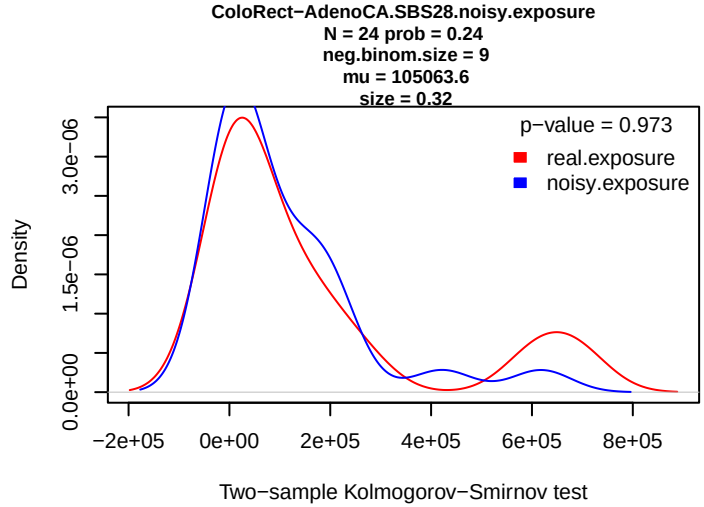

ColoRect−AdenoCA.SBS28.real.exposure
N = 13 prob = 0.2203
mu = 157457.23
size = 0.31
Density
0e+00
2e−04
4e−04
0e+00
1e+05
2e+05
3e+05
4e+05
5e+05
6e+05
7e+05
counts

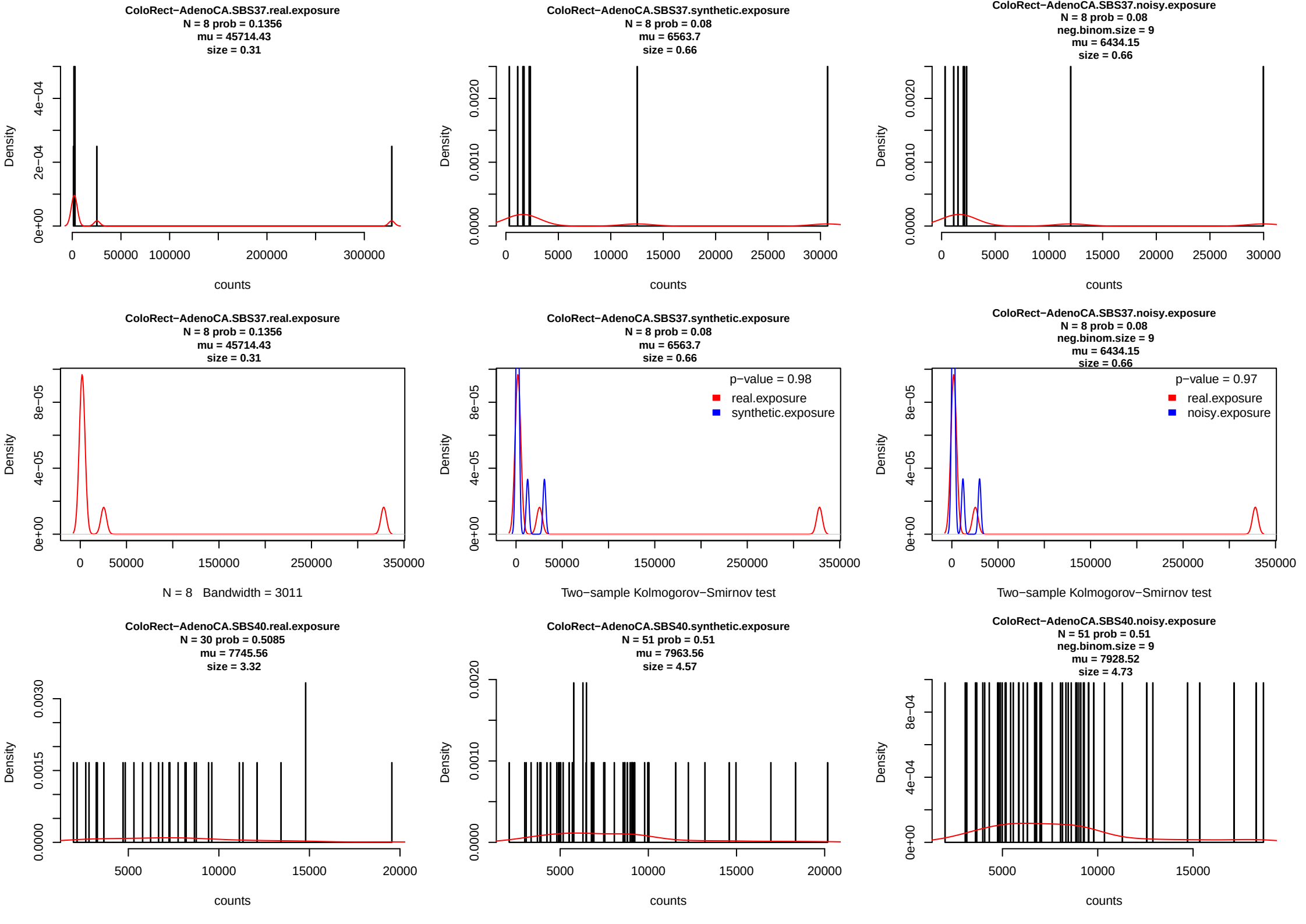

ColoRect−AdenoCA.SBS28.synthetic.exposure
N = 24 prob = 0.24
mu = 107200.17
size = 0.33
Density
0e+00
2e−04
4e−04
6e−04
0e+00
1e+05
2e+05
3e+05
4e+05
5e+05
6e+05
counts

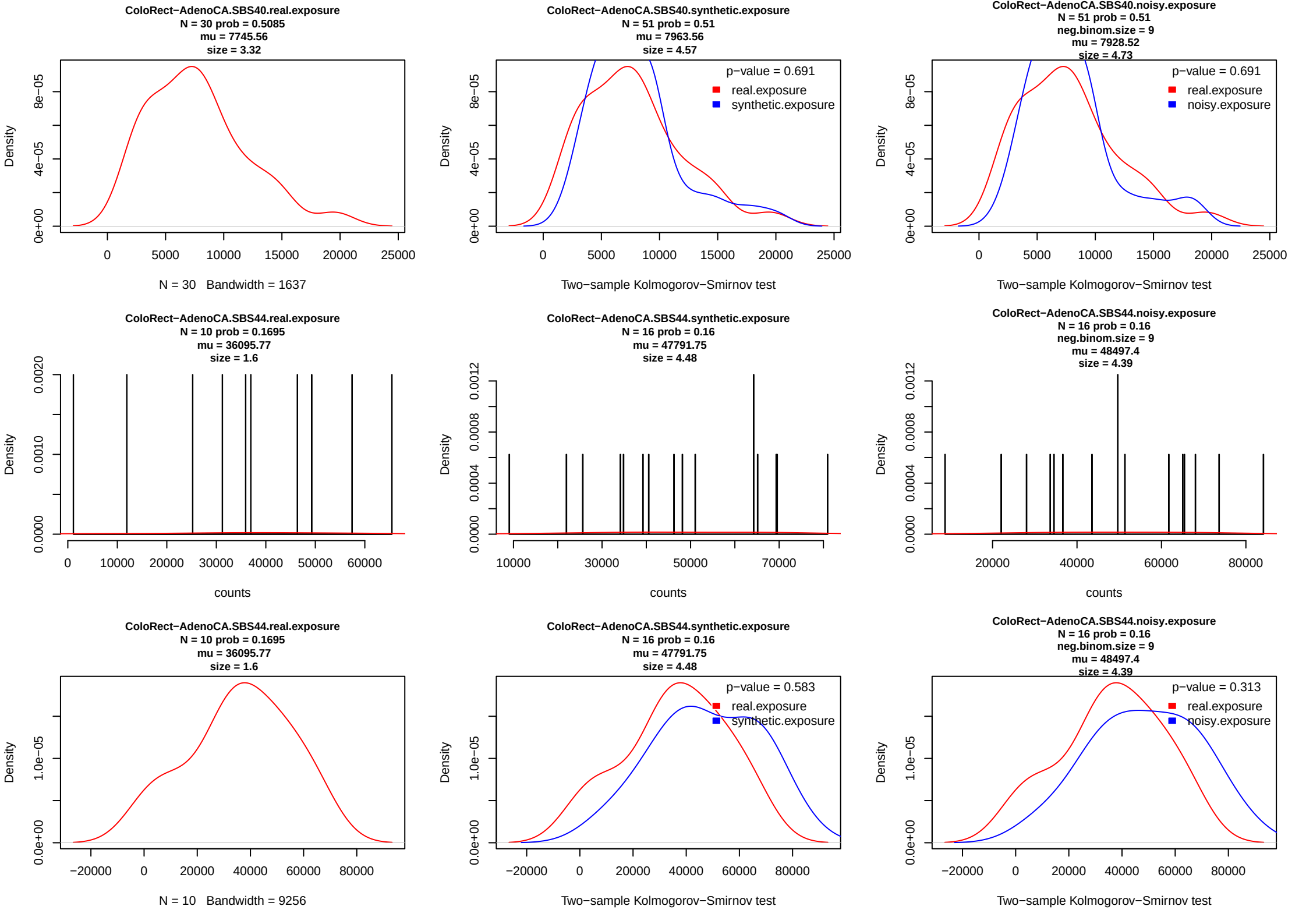

ColoRect−AdenoCA.SBS28.noisy.exposure
N = 24 prob = 0.24
neg.binom.size = 9
mu = 105063.6
size = 0.32
Density
0e+00
2e−04
4e−04
6e−04
0e+00
1e+05
2e+05
3e+05
4e+05
5e+05
6e+05
counts

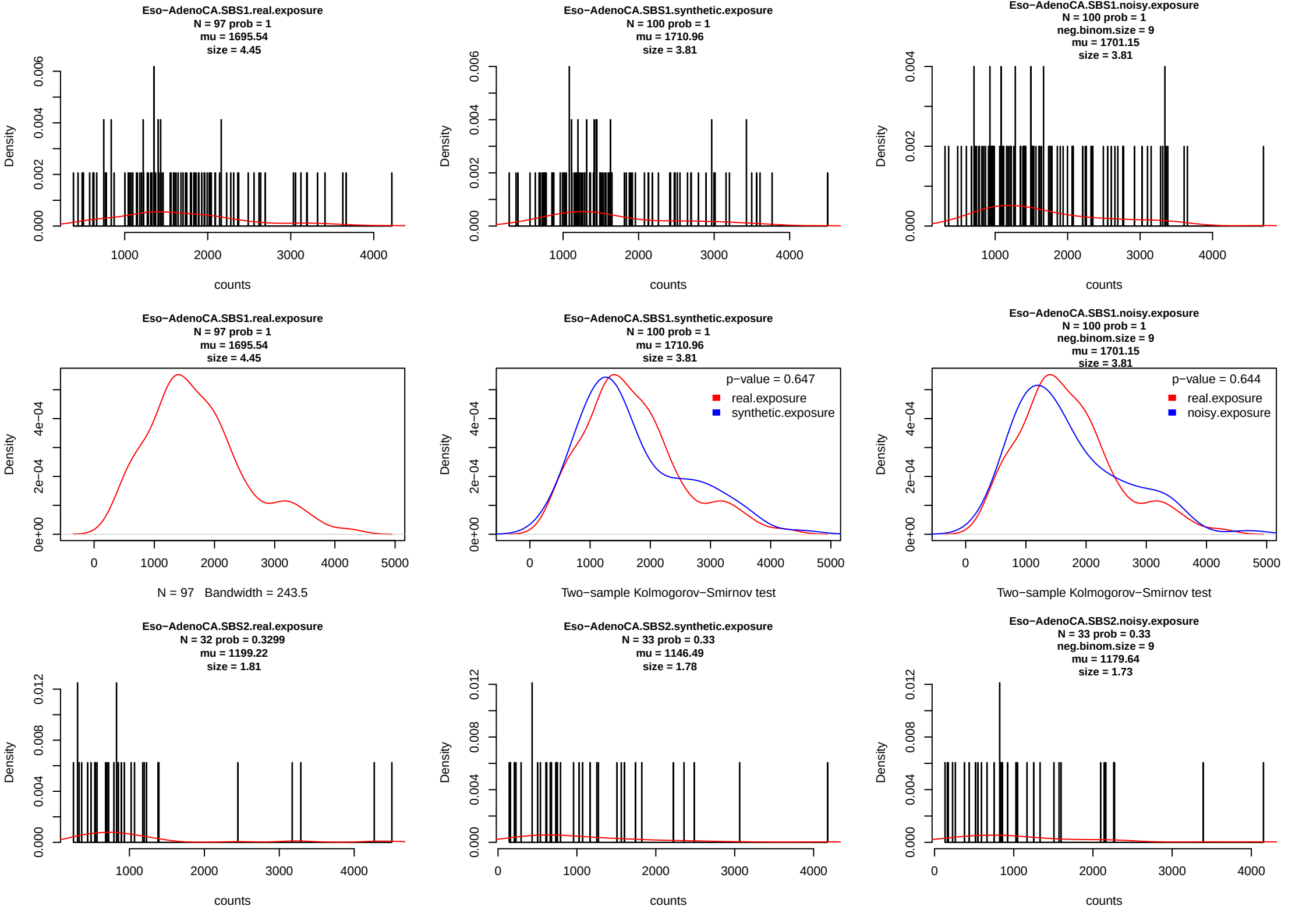

ColoRect−AdenoCA.SBS28.real.exposure
N = 13 prob = 0.2203
mu = 157457.23
size = 0.31
Density
0.0e+00
1.5e−06
3.0e−06
−2e+05
0e+00
2e+05
4e+05
6e+05
8e+05
N = 13 Bandwidth = 6.597e+04

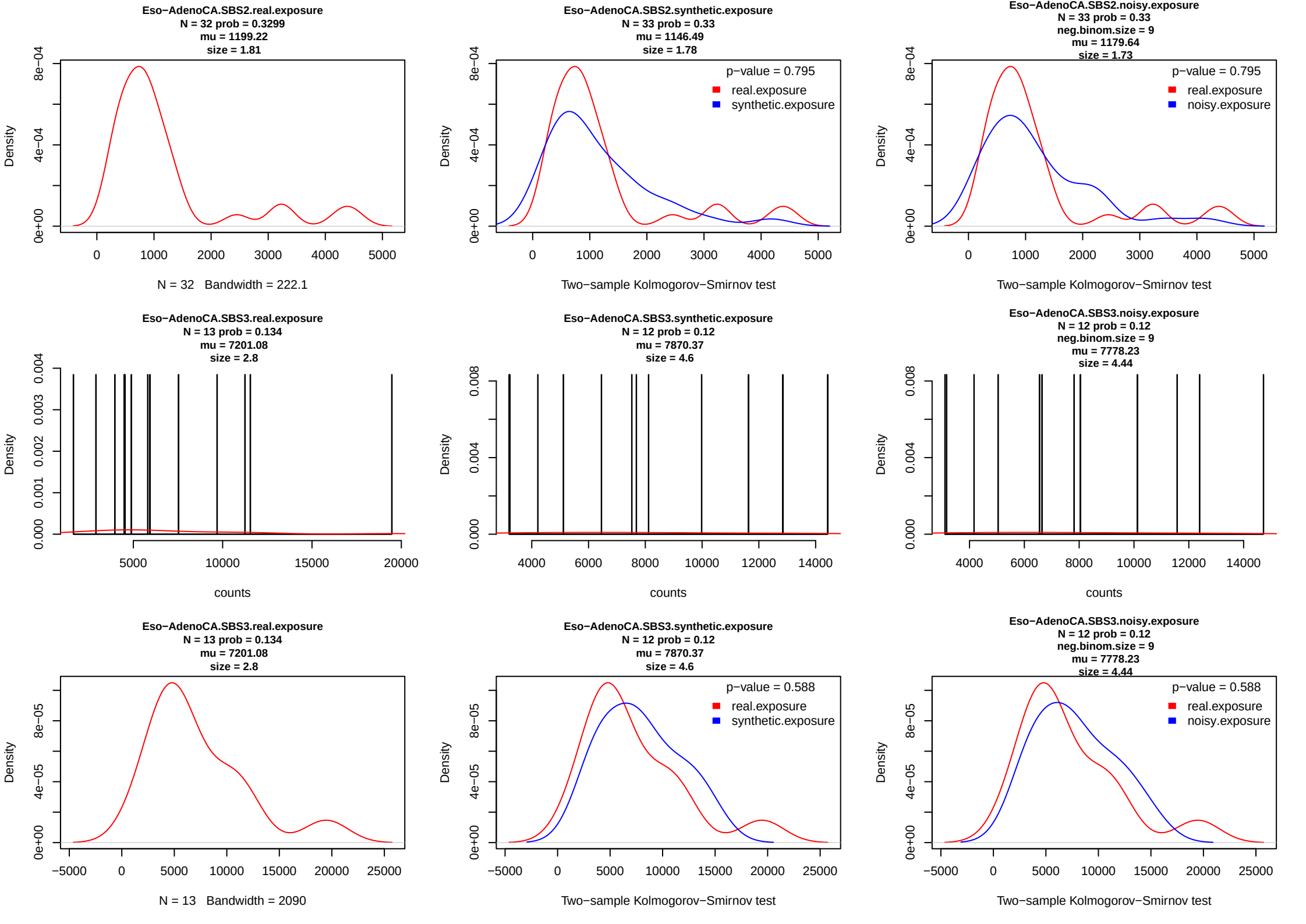

ColoRect−AdenoCA.SBS28.synthetic.exposure
N = 24 prob = 0.24
mu = 107200.17
size = 0.33
p−value = 0.973
real.exposure
synthetic.exposure
Density
0.0e+00
1.5e−06
3.0e−06
−2e+05
0e+00
2e+05
4e+05
6e+05
8e+05
Two−sample Kolmogorov−Smirnov test

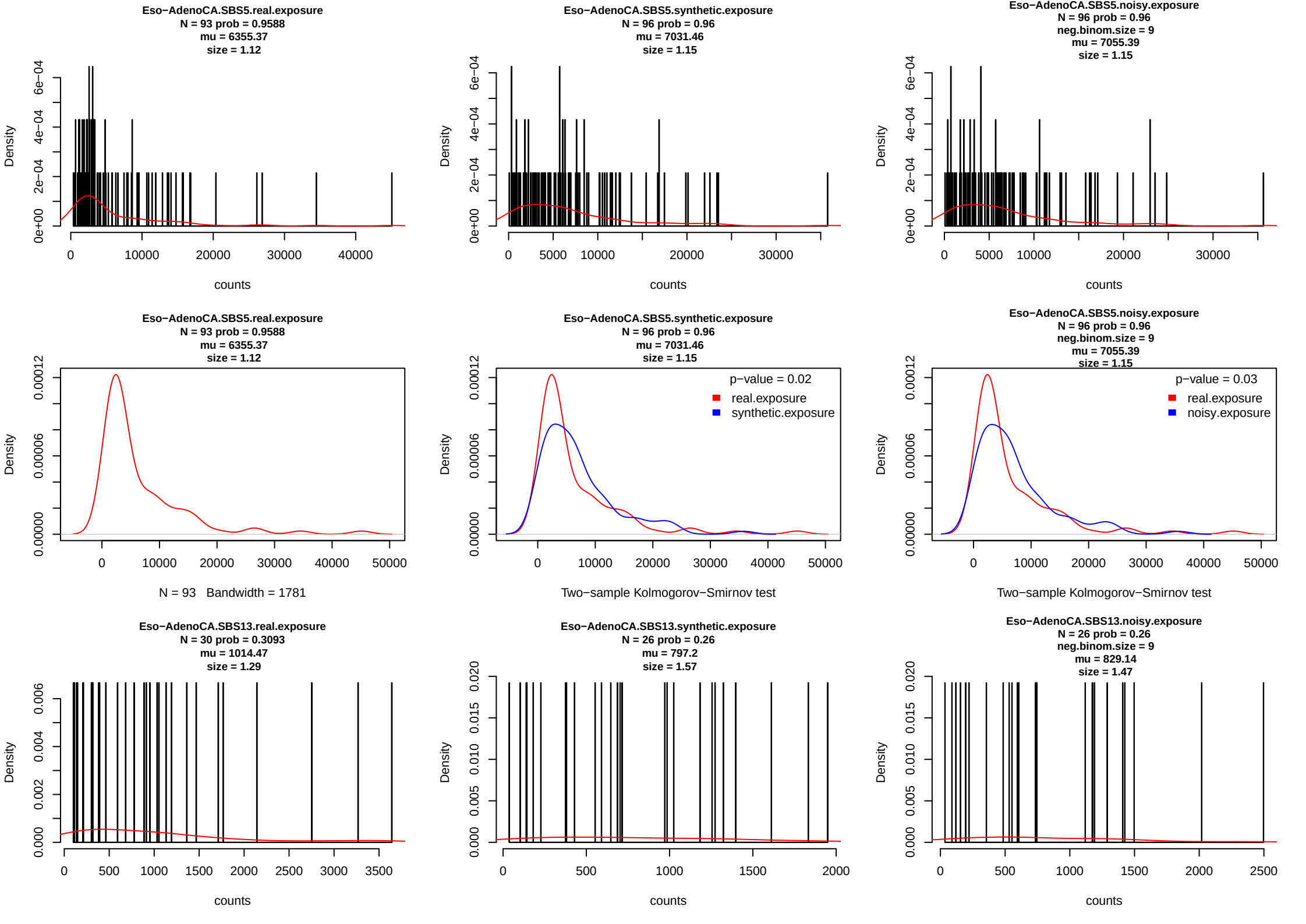

ColoRect−AdenoCA.SBS28.noisy.exposure
N = 24 prob = 0.24
neg.binom.size = 9
mu = 105063.6
size = 0.32
p−value = 0.973
real.exposure
noisy.exposure
Density
0.0e+00
1.5e−06
3.0e−06
−2e+05
0e+00
2e+05
4e+05
6e+05
8e+05
Two−sample Kolmogorov−Smirnov test

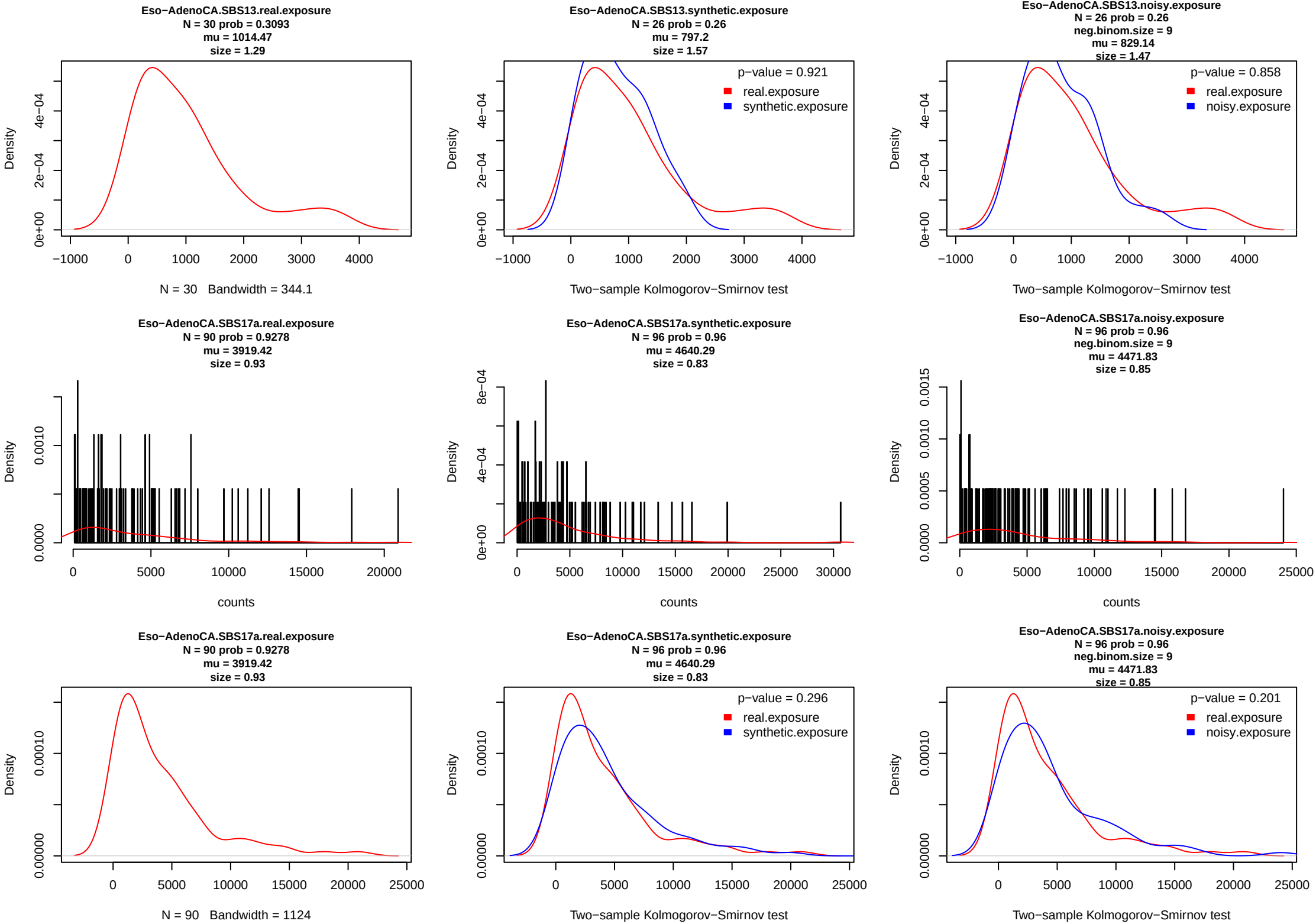

ColoRect−AdenoCA.SBS37.real.exposure
N = 8 prob = 0.1356
mu = 45714.43
size = 0.31
ColoRect−AdenoCA.SBS37.synthetic.exposure
N = 8 prob = 0.08
mu = 6563.7
size = 0.66
ColoRect−AdenoCA.SBS37.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 6434.15
size = 0.66
Density
counts
ColoRect−AdenoCA.SBS37.real.exposure
N = 8 prob = 0.1356
mu = 45714.43
size = 0.31
N = 8 Bandwidth = 3011
ColoRect−AdenoCA.SBS37.synthetic.exposure
N = 8 prob = 0.08
mu = 6563.7
size = 0.66
p−value = 0.98
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS37.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 6434.15
size = 0.66
p−value = 0.97
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS40.real.exposure
N = 30 prob = 0.5085
mu = 7745.56
size = 3.32
ColoRect−AdenoCA.SBS40.synthetic.exposure
N = 51 prob = 0.51
mu = 7963.56
size = 4.57
ColoRect−AdenoCA.SBS40.noisy.exposure
N = 51 prob = 0.51
neg.binom.size = 9
mu = 7928.52
size = 4.73

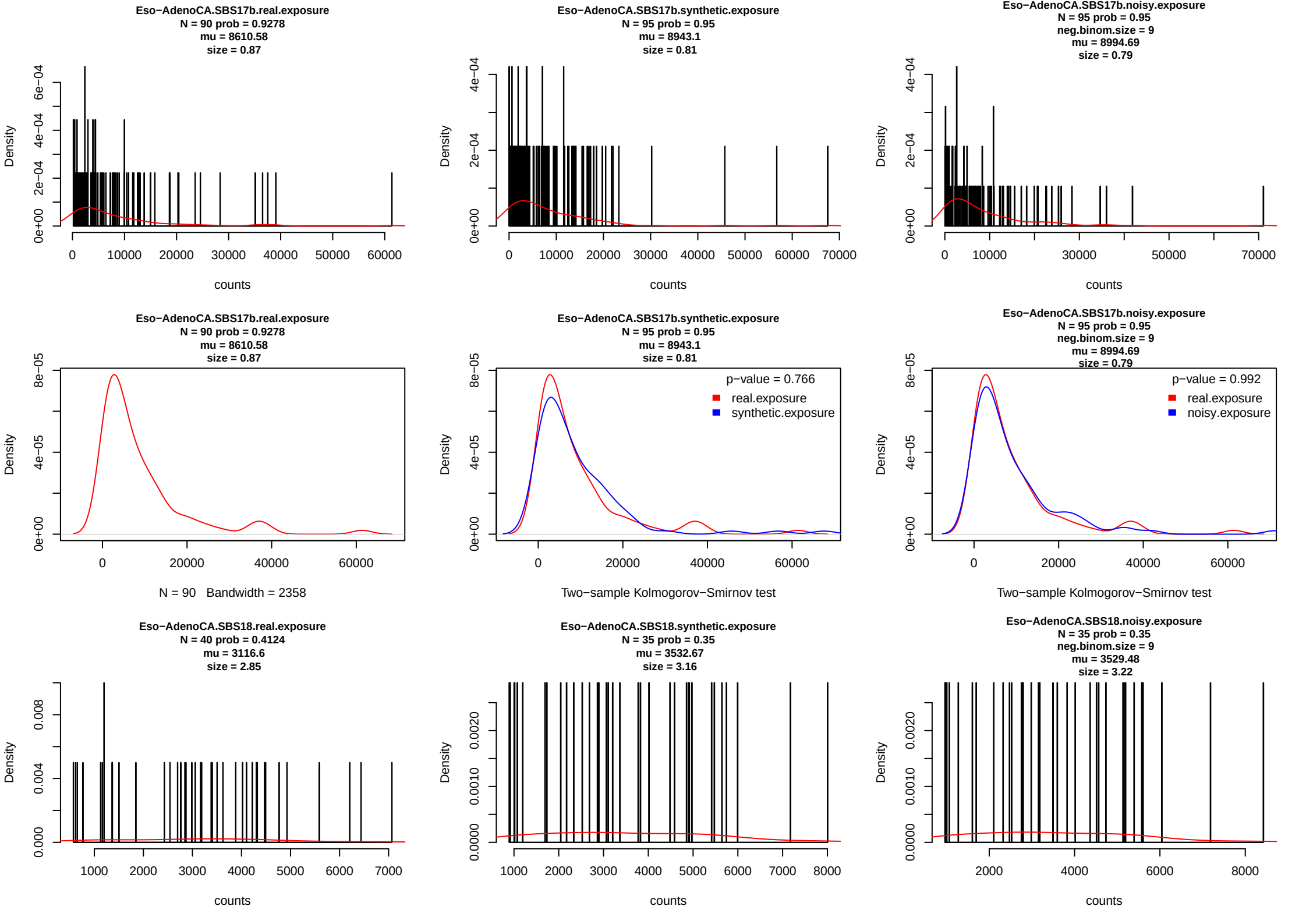

ColoRect−AdenoCA.SBS40.real.exposure
N = 30 prob = 0.5085
mu = 7745.56
size = 3.32
Density
N = 30 Bandwidth = 1637
ColoRect−AdenoCA.SBS40.synthetic.exposure
N = 51 prob = 0.51
mu = 7963.56
size = 4.57
p−value = 0.691
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS40.noisy.exposure
N = 51 prob = 0.51
neg.binom.size = 9
mu = 7928.52
size = 4.73
p−value = 0.691
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS44.real.exposure
N = 10 prob = 0.1695
mu = 36095.77
size = 1.6
counts
ColoRect−AdenoCA.SBS44.synthetic.exposure
N = 16 prob = 0.16
mu = 47791.75
size = 4.48
counts
ColoRect−AdenoCA.SBS44.noisy.exposure
N = 16 prob = 0.16
neg.binom.size = 9
mu = 48497.4
size = 4.39
counts
ColoRect−AdenoCA.SBS44.real.exposure
N = 10 prob = 0.1695
mu = 36095.77
size = 1.6
N = 10 Bandwidth = 9256
ColoRect−AdenoCA.SBS44.synthetic.exposure
N = 16 prob = 0.16
mu = 47791.75
size = 4.48
p−value = 0.583
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
ColoRect−AdenoCA.SBS44.noisy.exposure
N = 16 prob = 0.16
neg.binom.size = 9
mu = 48497.4
size = 4.39
p−value = 0.313
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

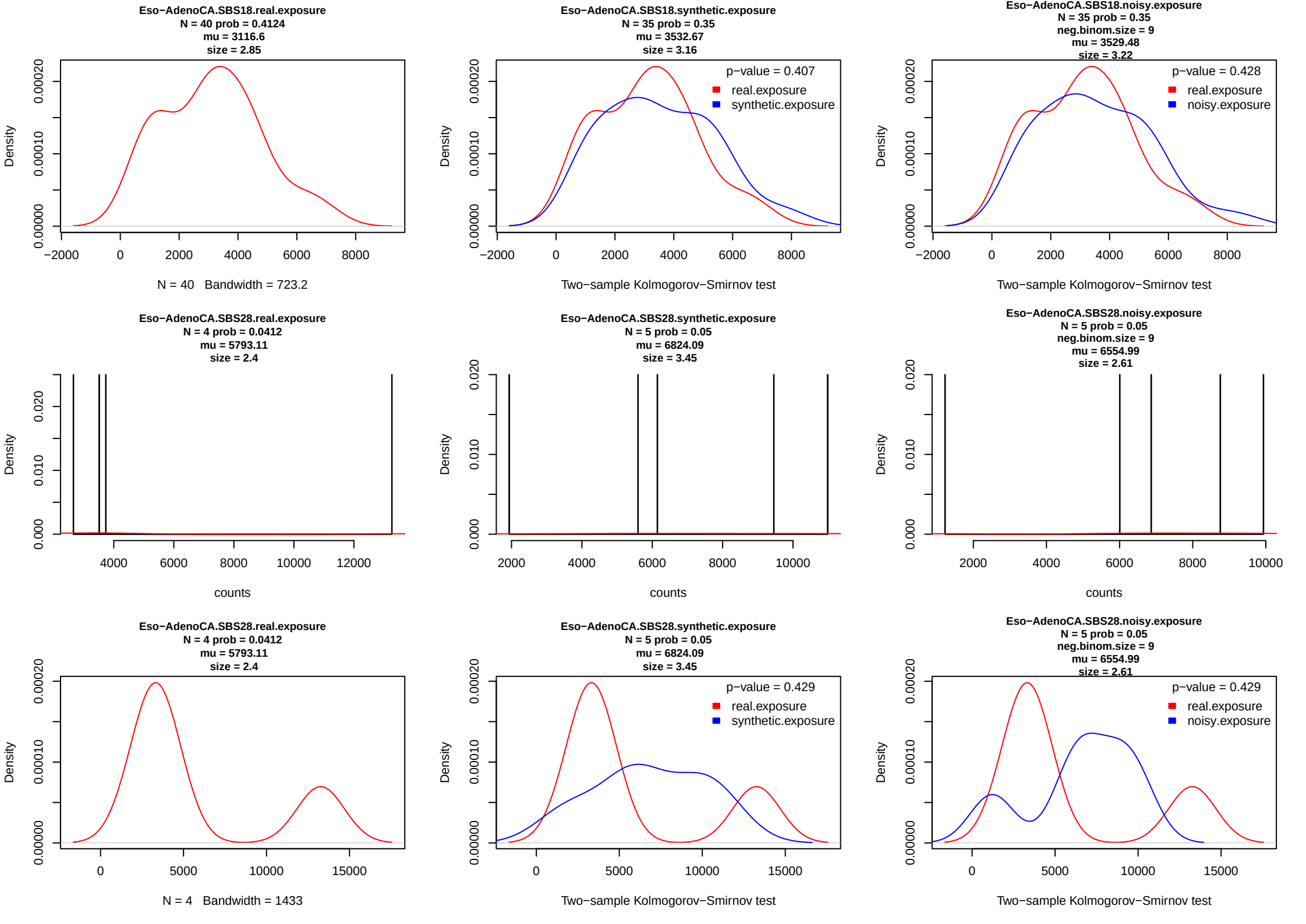

Eso−AdenoCA.SBS1.real.exposure
N = 97 prob = 1
mu = 1695.54
size = 4.45
Eso−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 1710.96
size = 3.81
Eso−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 1701.15
size = 3.81
Density
counts
N = 97 Bandwidth = 243.5
p−value = 0.647
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.644
real.exposure
noisy.exposure
Eso−AdenoCA.SBS2.real.exposure
N = 32 prob = 0.3299
mu = 1199.22
size = 1.81
Eso−AdenoCA.SBS2.synthetic.exposure
N = 33 prob = 0.33
mu = 1146.49
size = 1.78
Eso−AdenoCA.SBS2.noisy.exposure
N = 33 prob = 0.33
neg.binom.size = 9
mu = 1179.64
size = 1.73

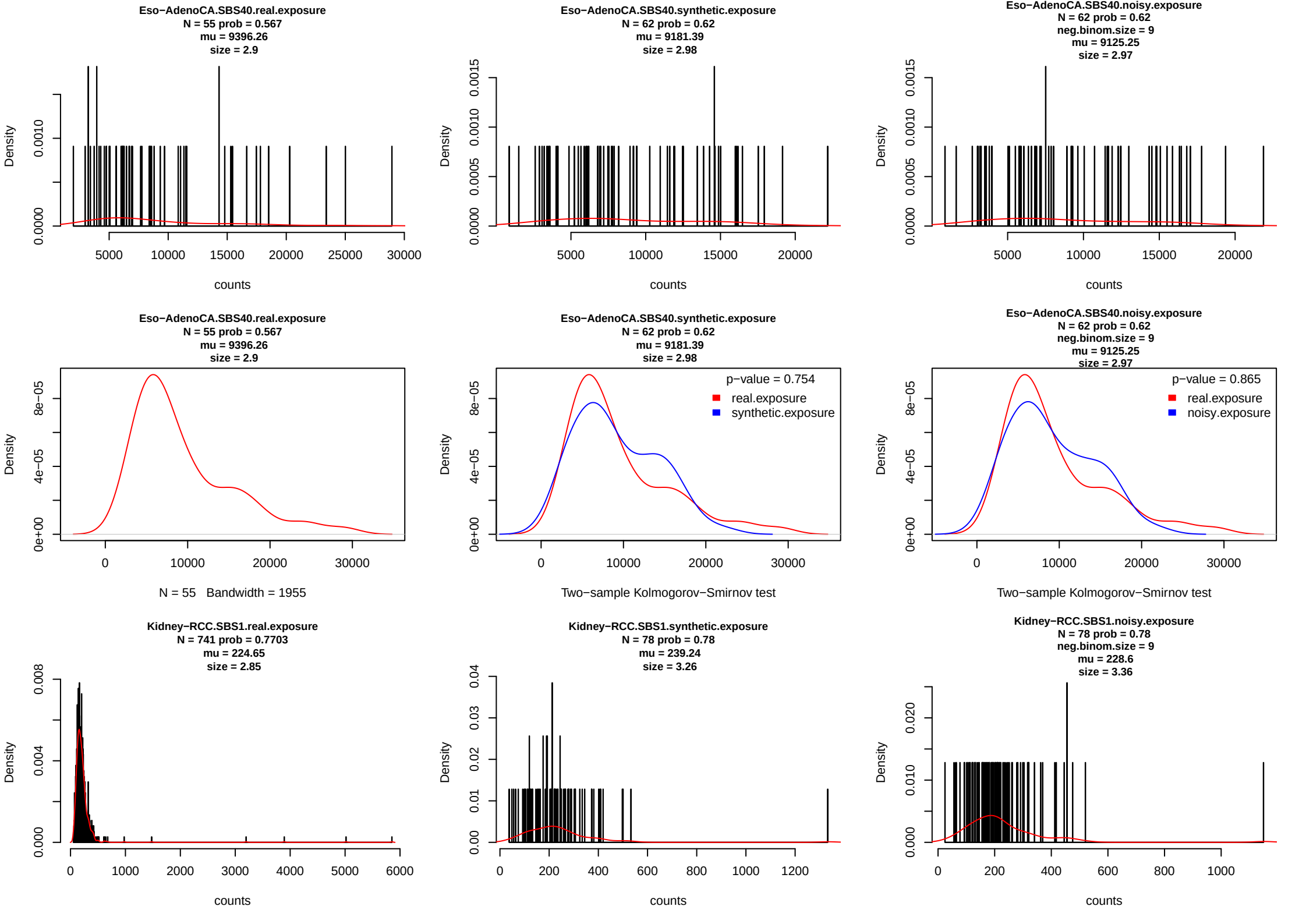

Eso−AdenoCA.SBS2.real.exposure
N = 32 prob = 0.3299
mu = 1199.22
size = 1.81
Density
N = 32 Bandwidth = 222.1
Eso−AdenoCA.SBS2.synthetic.exposure
N = 33 prob = 0.33
mu = 1146.49
size = 1.78
p−value = 0.795
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS2.noisy.exposure
N = 33 prob = 0.33
neg.binom.size = 9
mu = 1179.64
size = 1.73
p−value = 0.795
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS3.real.exposure
N = 13 prob = 0.134
mu = 7201.08
size = 2.8
counts
Eso−AdenoCA.SBS3.synthetic.exposure
N = 12 prob = 0.12
mu = 7870.37
size = 4.6
counts
Eso−AdenoCA.SBS3.noisy.exposure
N = 12 prob = 0.12
neg.binom.size = 9
mu = 7778.23
size = 4.44
counts
Eso−AdenoCA.SBS3.real.exposure
N = 13 prob = 0.134
mu = 7201.08
size = 2.8
N = 13 Bandwidth = 2090
Eso−AdenoCA.SBS3.synthetic.exposure
N = 12 prob = 0.12
mu = 7870.37
size = 4.6
p−value = 0.588
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS3.noisy.exposure
N = 12 prob = 0.12
neg.binom.size = 9
mu = 7778.23
size = 4.44
p−value = 0.588
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

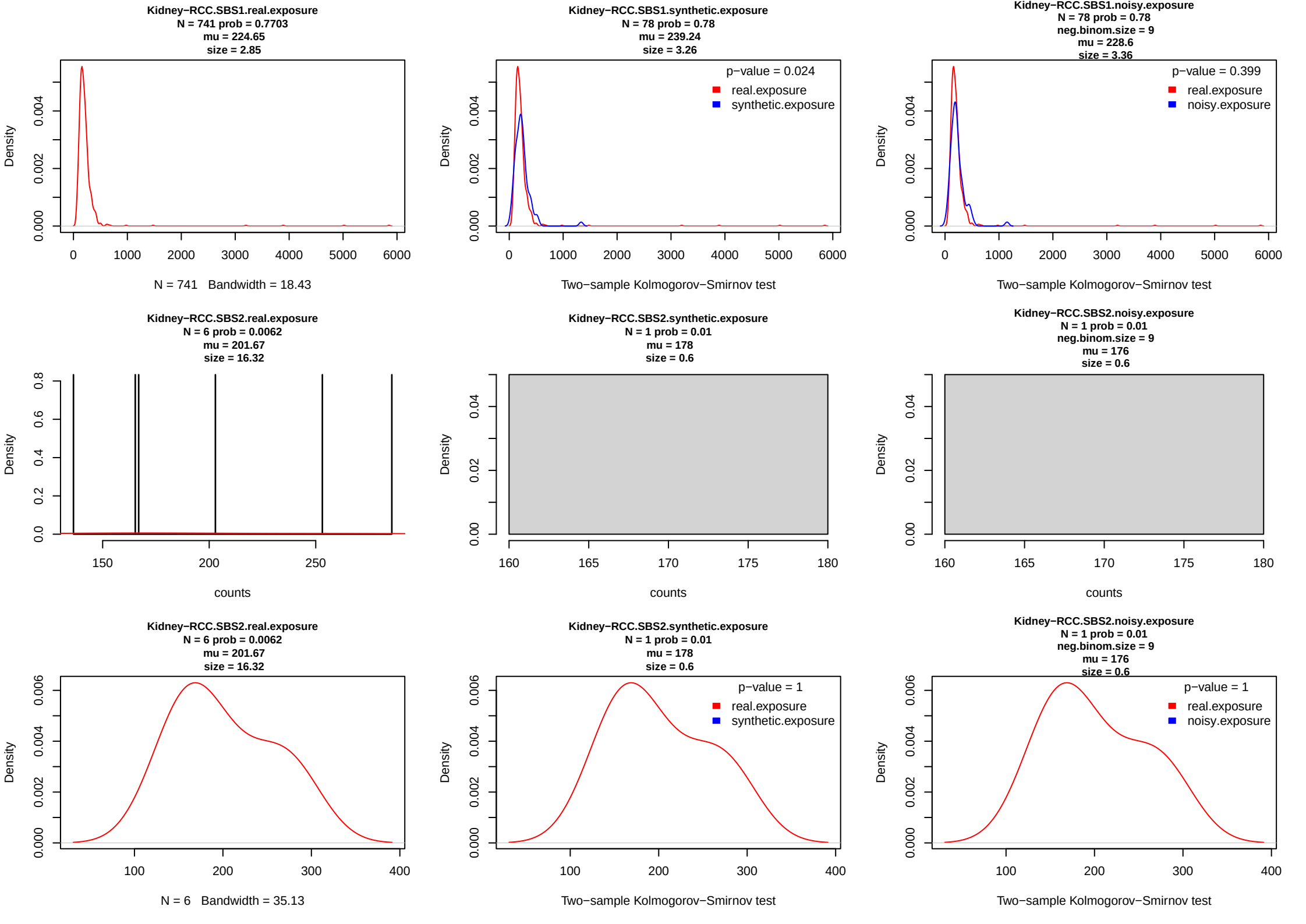

Eso−AdenoCA.SBS5.real.exposure
N = 93 prob = 0.9588
mu = 6355.37
size = 1.12
Eso−AdenoCA.SBS5.synthetic.exposure
N = 96 prob = 0.96
mu = 7031.46
size = 1.15
Eso−AdenoCA.SBS5.noisy.exposure
N = 96 prob = 0.96
neg.binom.size = 9
mu = 7055.39
size = 1.15
Density
counts
N = 93 Bandwidth = 1781
p−value = 0.02
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.03
noisy.exposure
Eso−AdenoCA.SBS13.real.exposure
N = 30 prob = 0.3093
mu = 1014.47
size = 1.29
Eso−AdenoCA.SBS13.synthetic.exposure
N = 26 prob = 0.26
mu = 797.2
size = 1.57
Eso−AdenoCA.SBS13.noisy.exposure
N = 26 prob = 0.26
neg.binom.size = 9
mu = 829.14
size = 1.47

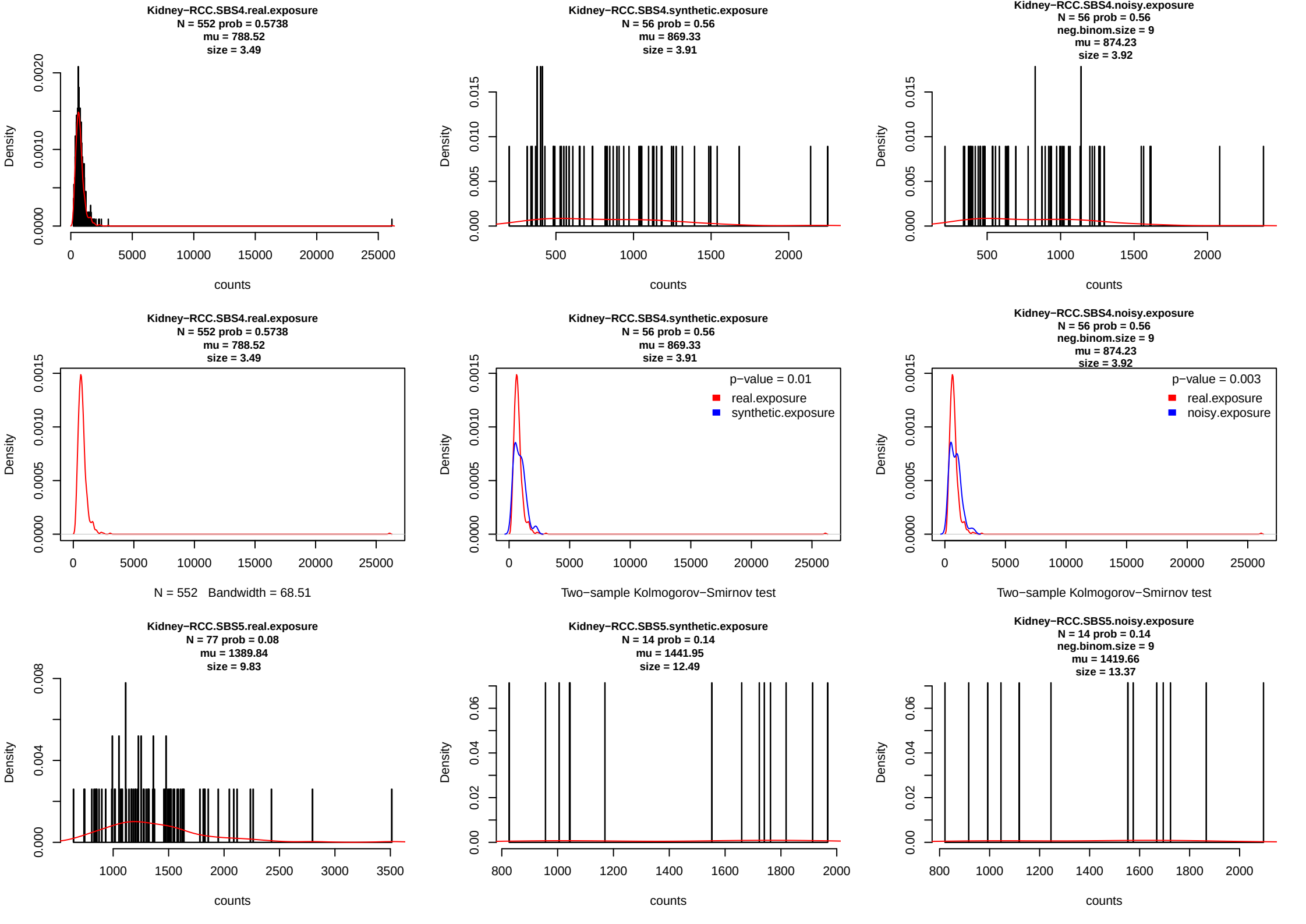

Eso−AdenoCA.SBS13.real.exposure
N = 30 prob = 0.3093
mu = 1014.47
size = 1.29
Density
N = 30 Bandwidth = 344.1
Eso−AdenoCA.SBS13.synthetic.exposure
N = 26 prob = 0.26
mu = 797.2
size = 1.57
p−value = 0.921
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS13.noisy.exposure
N = 26 prob = 0.26
neg.binom.size = 9
mu = 829.14
size = 1.47
p−value = 0.858
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS17a.real.exposure
N = 90 prob = 0.9278
mu = 3919.42
size = 0.93
counts
Eso−AdenoCA.SBS17a.synthetic.exposure
N = 96 prob = 0.96
mu = 4640.29
size = 0.83
counts
Eso−AdenoCA.SBS17a.noisy.exposure
N = 96 prob = 0.96
neg.binom.size = 9
mu = 4471.83
size = 0.85
counts
Eso−AdenoCA.SBS17a.real.exposure
N = 90 prob = 0.9278
mu = 3919.42
size = 0.93
N = 90 Bandwidth = 1124
Eso−AdenoCA.SBS17a.synthetic.exposure
N = 96 prob = 0.96
mu = 4640.29
size = 0.83
p−value = 0.296
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS17a.noisy.exposure
N = 96 prob = 0.96
neg.binom.size = 9
mu = 4471.83
size = 0.85
p−value = 0.201
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

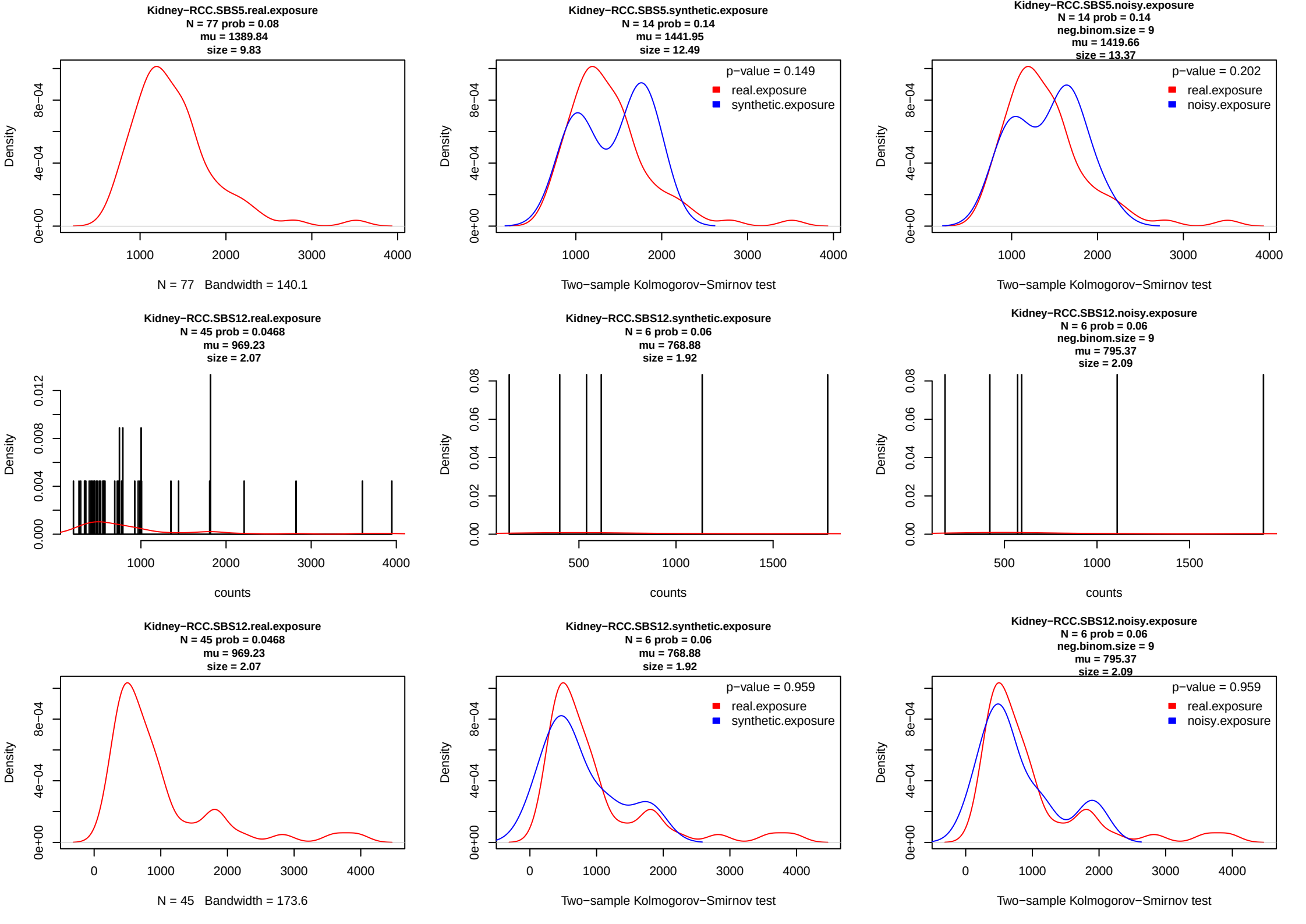

Eso−AdenoCA.SBS17b.real.exposure
N = 90 prob = 0.9278
mu = 8610.58
size = 0.87
Eso−AdenoCA.SBS17b.synthetic.exposure
N = 95 prob = 0.95
mu = 8943.1
size = 0.81
Eso−AdenoCA.SBS17b.noisy.exposure
N = 95 prob = 0.95
neg.binom.size = 9
mu = 8994.69
size = 0.79
Density
counts
Eso−AdenoCA.SBS17b.real.exposure
N = 90 prob = 0.9278
mu = 8610.58
size = 0.87
N = 90 Bandwidth = 2358
Eso−AdenoCA.SBS17b.synthetic.exposure
N = 95 prob = 0.95
mu = 8943.1
size = 0.81
p−value = 0.766
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS17b.noisy.exposure
N = 95 prob = 0.95
neg.binom.size = 9
mu = 8994.69
size = 0.79
p−value = 0.992
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS18.real.exposure
N = 40 prob = 0.4124
mu = 3116.6
size = 2.85
Eso−AdenoCA.SBS18.synthetic.exposure
N = 35 prob = 0.35
mu = 3532.67
size = 3.16
Eso−AdenoCA.SBS18.noisy.exposure
N = 35 prob = 0.35
neg.binom.size = 9
mu = 3529.48
size = 3.22

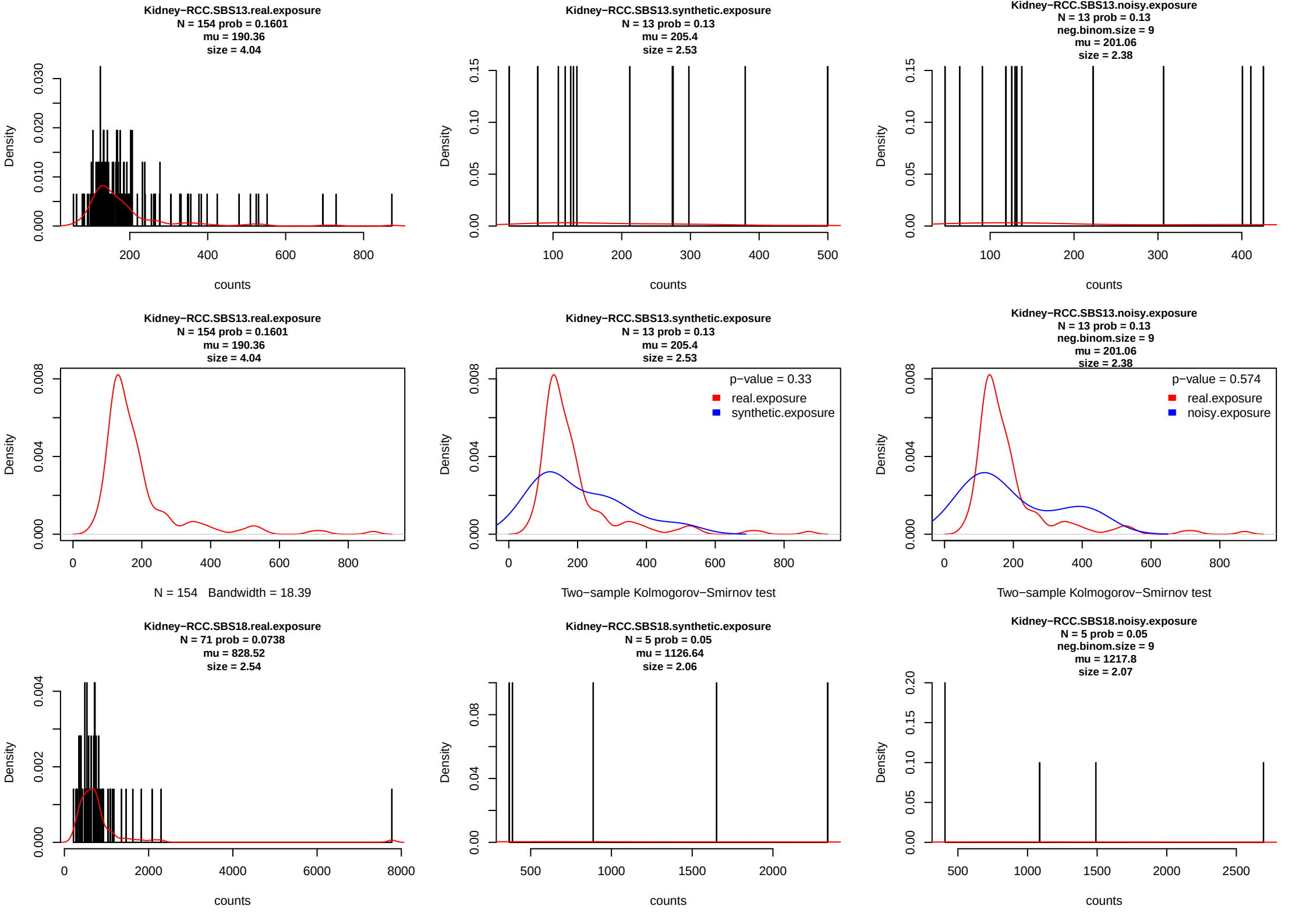

Eso−AdenoCA.SBS18.real.exposure
N = 40 prob = 0.4124
mu = 3116.6
size = 2.85
Density
N = 40 Bandwidth = 723.2
Eso−AdenoCA.SBS18.synthetic.exposure
N = 35 prob = 0.35
mu = 3532.67
size = 3.16
p−value = 0.407
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS18.noisy.exposure
N = 35 prob = 0.35
neg.binom.size = 9
mu = 3529.48
size = 3.22
p−value = 0.428
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS28.real.exposure
N = 4 prob = 0.0412
mu = 5793.11
size = 2.4
counts
Eso−AdenoCA.SBS28.synthetic.exposure
N = 5 prob = 0.05
mu = 6824.09
size = 3.45
counts
Eso−AdenoCA.SBS28.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 6554.99
size = 2.61
counts
Eso−AdenoCA.SBS28.real.exposure
N = 4 prob = 0.0412
mu = 5793.11
size = 2.4
N = 4 Bandwidth = 1433
Eso−AdenoCA.SBS28.synthetic.exposure
N = 5 prob = 0.05
mu = 6824.09
size = 3.45
p−value = 0.429
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Eso−AdenoCA.SBS28.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 6554.99
size = 2.61
p−value = 0.429
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

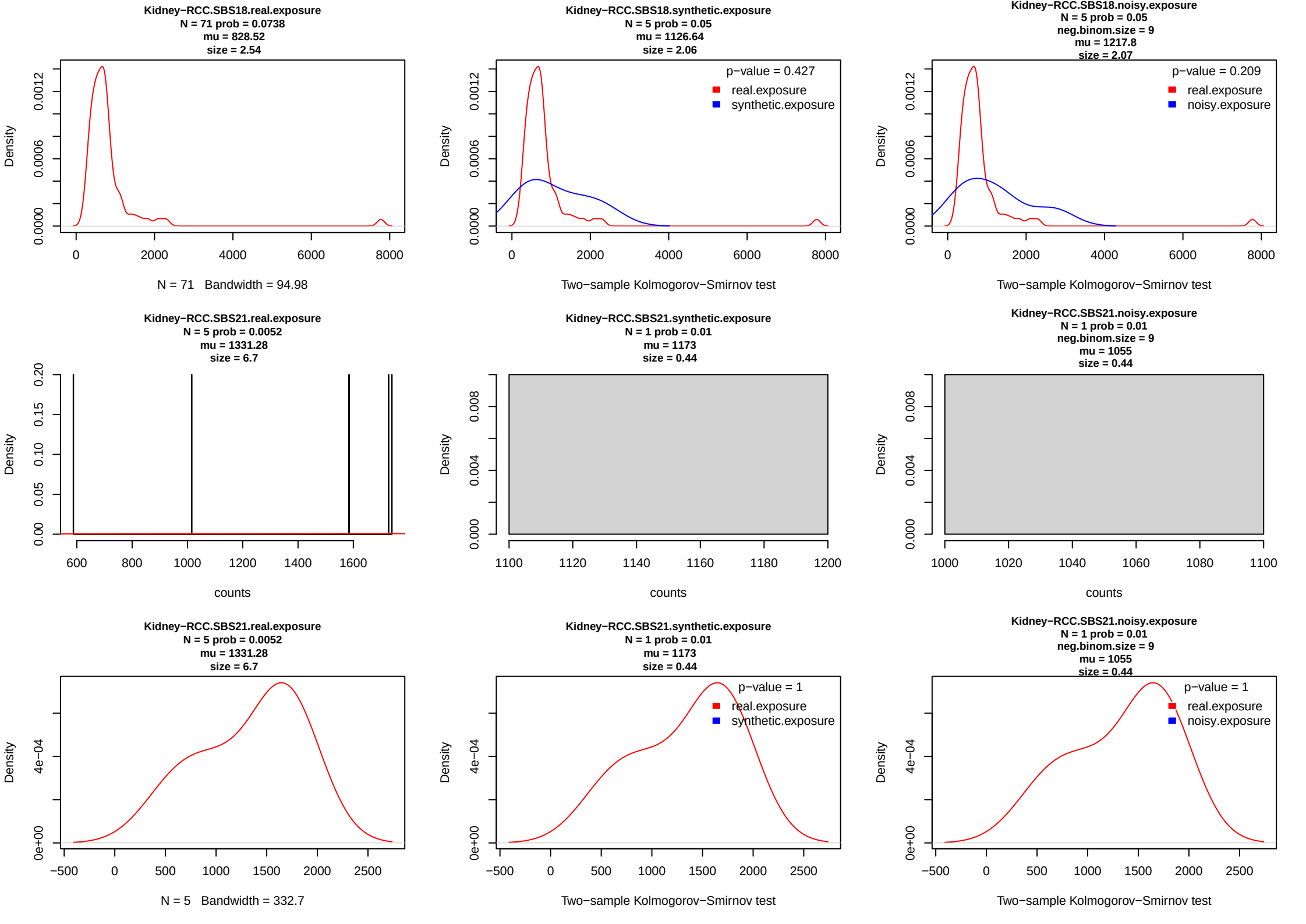

Eso−AdenoCA.SBS40.real.exposure
N = 55 prob = 0.567
mu = 9396.26
size = 2.9
Eso−AdenoCA.SBS40.synthetic.exposure
N = 62 prob = 0.62
mu = 9181.39
size = 2.98
Eso−AdenoCA.SBS40.noisy.exposure
N = 62 prob = 0.62
neg.binom.size = 9
mu = 9125.25
size = 2.97
Density
counts
N = 55 Bandwidth = 1955
p−value = 0.754
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.865
real.exposure
noisy.exposure
Kidney−RCC.SBS1.real.exposure
N = 741 prob = 0.7703
mu = 224.65
size = 2.85
Kidney−RCC.SBS1.synthetic.exposure
N = 78 prob = 0.78
mu = 239.24
size = 3.26
Kidney−RCC.SBS1.noisy.exposure
N = 78 prob = 0.78
neg.binom.size = 9
mu = 228.6
size = 3.36

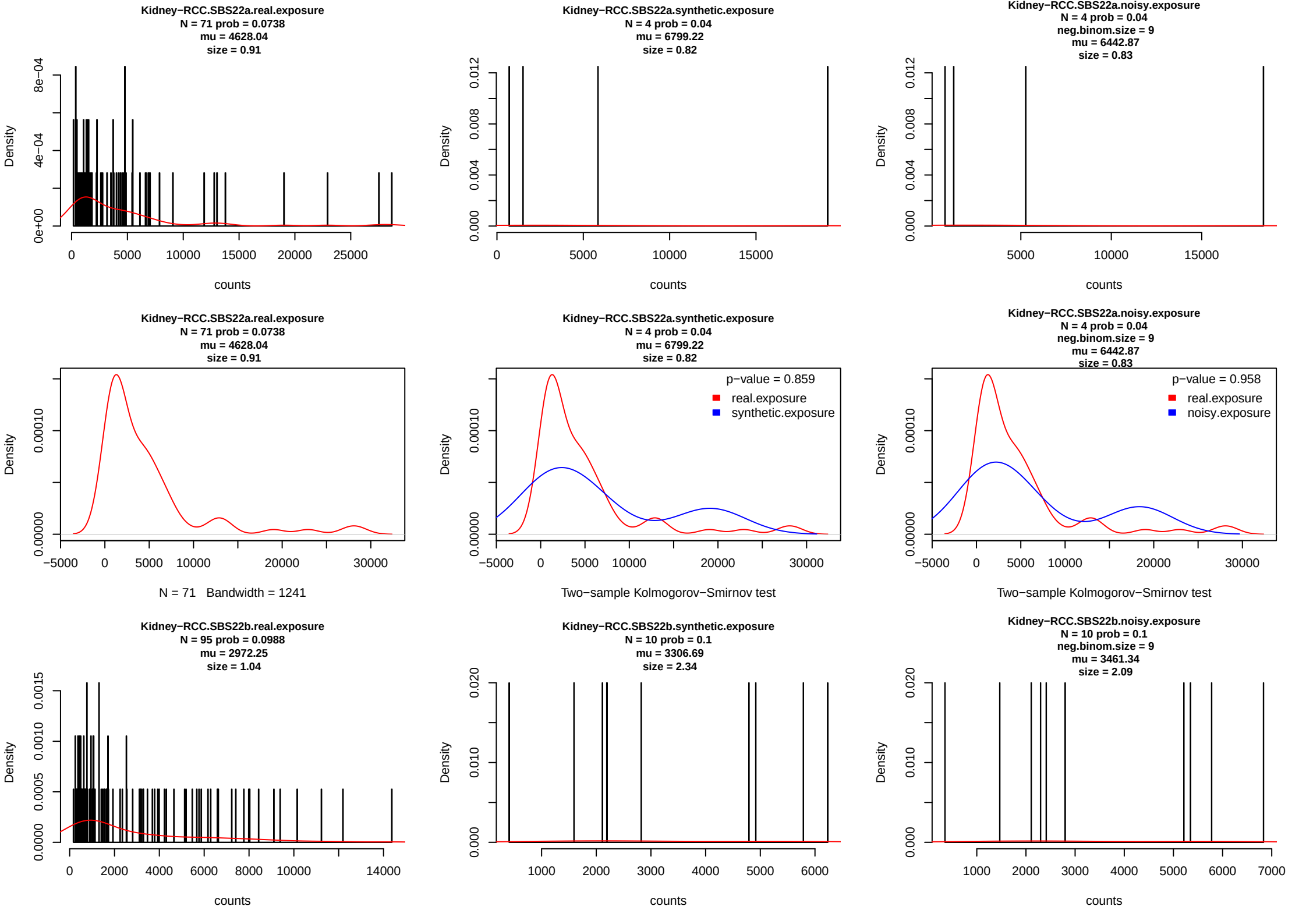

Kidney−RCC.SBS1.real.exposure
N = 741 prob = 0.7703
mu = 224.65
size = 2.85
Density
N = 741 Bandwidth = 18.43
Kidney−RCC.SBS1.synthetic.exposure
N = 78 prob = 0.78
mu = 239.24
size = 3.26
p−value = 0.024
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS1.noisy.exposure
N = 78 prob = 0.78
neg.binom.size = 9
mu = 228.6
size = 3.36
p−value = 0.399
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS2.real.exposure
N = 6 prob = 0.0062
mu = 201.67
size = 16.32
counts
Kidney−RCC.SBS2.synthetic.exposure
N = 1 prob = 0.01
mu = 178
size = 0.6
Kidney−RCC.SBS2.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 176
size = 0.6
Kidney−RCC.SBS2.real.exposure
N = 6 prob = 0.0062
mu = 201.67
size = 16.32
N = 6 Bandwidth = 35.13
Kidney−RCC.SBS2.synthetic.exposure
N = 1 prob = 0.01
mu = 178
size = 0.6
p−value = 1
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS2.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 176
size = 0.6
p−value = 1
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

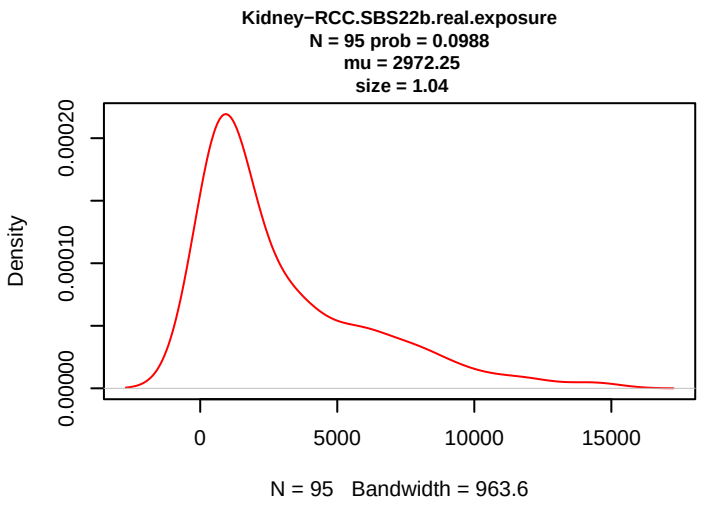

Kidney−RCC.SBS4.real.exposure
N = 552 prob = 0.5738
mu = 788.52
size = 3.49
Kidney−RCC.SBS4.synthetic.exposure
N = 56 prob = 0.56
mu = 869.33
size = 3.91
Kidney−RCC.SBS4.noisy.exposure
N = 56 prob = 0.56
neg.binom.size = 9
mu = 874.23
size = 3.92
Density
counts
Kidney−RCC.SBS4.real.exposure
N = 552 prob = 0.5738
mu = 788.52
size = 3.49
N = 552 Bandwidth = 68.51
Kidney−RCC.SBS4.synthetic.exposure
N = 56 prob = 0.56
mu = 869.33
size = 3.91
p−value = 0.01
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS4.noisy.exposure
N = 56 prob = 0.56
neg.binom.size = 9
mu = 874.23
size = 3.92
p−value = 0.003
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS5.real.exposure
N = 77 prob = 0.08
mu = 1389.84
size = 9.83
Kidney−RCC.SBS5.synthetic.exposure
N = 14 prob = 0.14
mu = 1441.95
size = 12.49
Kidney−RCC.SBS5.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 1419.66
size = 13.37

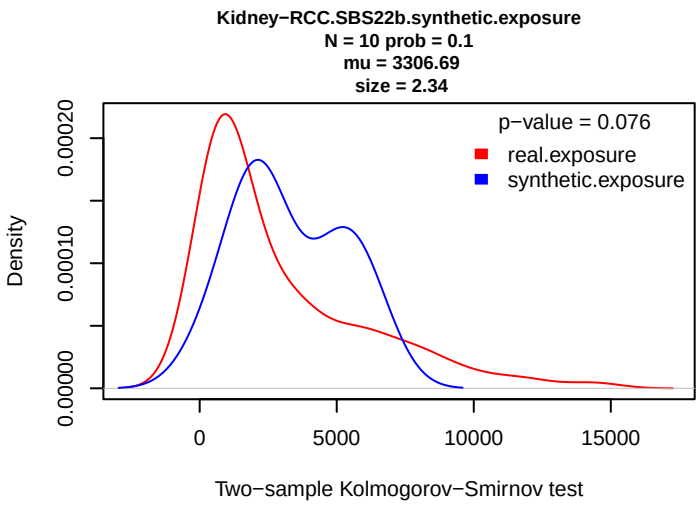

Kidney−RCC.SBS5.real.exposure
N = 77 prob = 0.08
mu = 1389.84
size = 9.83
Density
N = 77 Bandwidth = 140.1
Kidney−RCC.SBS5.synthetic.exposure
N = 14 prob = 0.14
mu = 1441.95
size = 12.49
p−value = 0.149
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS5.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 1419.66
size = 13.37
p−value = 0.202
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS12.real.exposure
N = 45 prob = 0.0468
mu = 969.23
size = 2.07
counts
Kidney−RCC.SBS12.synthetic.exposure
N = 6 prob = 0.06
mu = 768.88
size = 1.92
counts
Kidney−RCC.SBS12.noisy.exposure
N = 6 prob = 0.06
neg.binom.size = 9
mu = 795.37
size = 2.09
counts
Kidney−RCC.SBS12.real.exposure
N = 45 prob = 0.0468
mu = 969.23
size = 2.07
N = 45 Bandwidth = 173.6
Kidney−RCC.SBS12.synthetic.exposure
N = 6 prob = 0.06
mu = 768.88
size = 1.92
p−value = 0.959
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS12.noisy.exposure
N = 6 prob = 0.06
neg.binom.size = 9
mu = 795.37
size = 2.09
p−value = 0.959
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

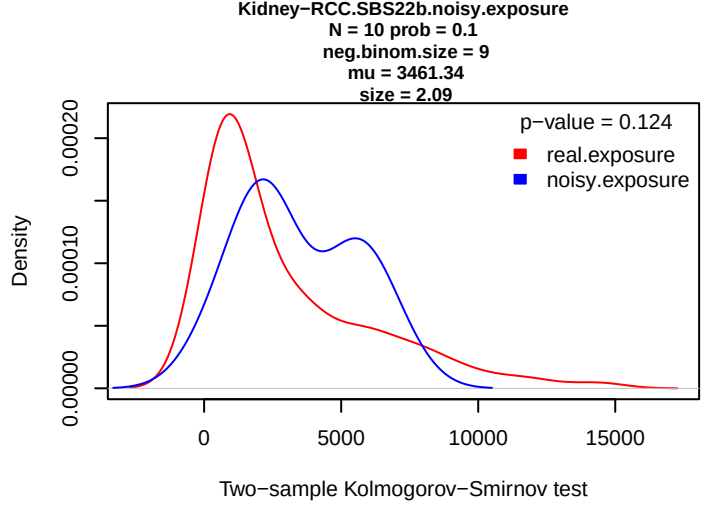

Kidney−RCC.SBS13.real.exposure
N = 154 prob = 0.1601
mu = 190.36
size = 4.04
Kidney−RCC.SBS13.synthetic.exposure
N = 13 prob = 0.13
mu = 205.4
size = 2.53
Kidney−RCC.SBS13.noisy.exposure
N = 13 prob = 0.13
neg.binom.size = 9
mu = 201.06
size = 2.38
Density
counts
N = 154 Bandwidth = 18.39
p−value = 0.33
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.574
noisy.exposure
Kidney−RCC.SBS18.real.exposure
N = 71 prob = 0.0738
mu = 828.52
size = 2.54
Kidney−RCC.SBS18.synthetic.exposure
N = 5 prob = 0.05
mu = 1126.64
size = 2.06
Kidney−RCC.SBS18.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 1217.8
size = 2.07

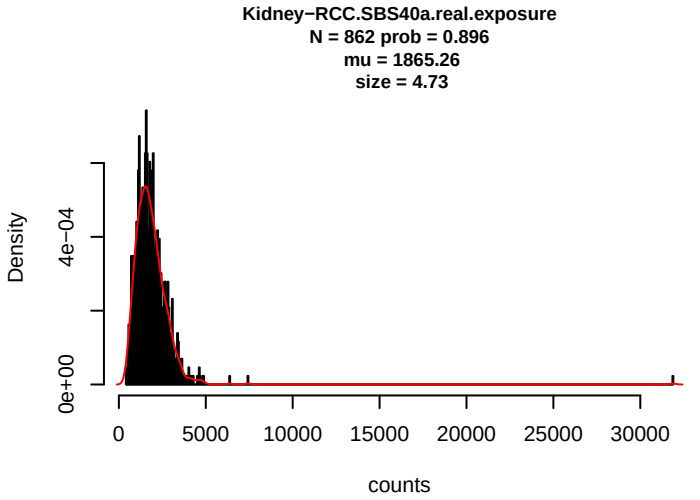

Kidney−RCC.SBS18.real.exposure
N = 71 prob = 0.0738
mu = 828.52
size = 2.54
Density
N = 71 Bandwidth = 94.98
Kidney−RCC.SBS18.synthetic.exposure
N = 5 prob = 0.05
mu = 1126.64
size = 2.06
p−value = 0.427
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS18.noisy.exposure
N = 5 prob = 0.05
neg.binom.size = 9
mu = 1217.8
size = 2.07
p−value = 0.209
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS21.real.exposure
N = 5 prob = 0.0052
mu = 1331.28
size = 6.7
counts
Kidney−RCC.SBS21.synthetic.exposure
N = 1 prob = 0.01
mu = 1173
size = 0.44
Kidney−RCC.SBS21.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 1055
size = 0.44
Kidney−RCC.SBS21.real.exposure
N = 5 prob = 0.0052
mu = 1331.28
size = 6.7
N = 5 Bandwidth = 332.7
Kidney−RCC.SBS21.synthetic.exposure
N = 1 prob = 0.01
mu = 1173
size = 0.44
p−value = 1
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS21.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 1055
size = 0.44
p−value = 1
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

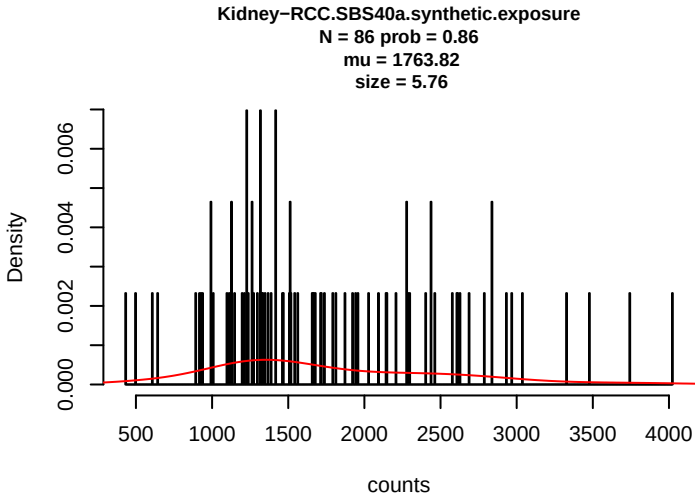

Kidney−RCC.SBS22a.real.exposure
N = 71 prob = 0.0738
mu = 4628.04
size = 0.91
Kidney−RCC.SBS22a.synthetic.exposure
N = 4 prob = 0.04
mu = 6799.22
size = 0.82
Kidney−RCC.SBS22a.noisy.exposure
N = 4 prob = 0.04
neg.binom.size = 9
mu = 6442.87
size = 0.83
Density
counts
N = 71 Bandwidth = 1241
p−value = 0.859
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.958
noisy.exposure
Kidney−RCC.SBS22b.real.exposure
N = 95 prob = 0.0988
mu = 2972.25
size = 1.04
Kidney−RCC.SBS22b.synthetic.exposure
N = 10 prob = 0.1
mu = 3306.69
size = 2.34
Kidney−RCC.SBS22b.noisy.exposure
N = 10 prob = 0.1
neg.binom.size = 9
mu = 3461.34
size = 2.09

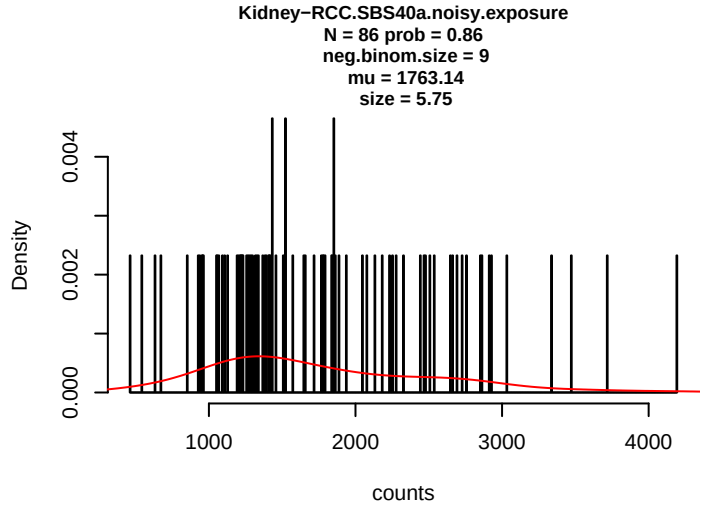

Kidney−RCC.SBS22b.real.exposure
N = 95 prob = 0.0988
mu = 2972.25
size = 1.04
Density
0.00000
0.00010
0.00020
0
5000
10000
15000
N = 95 Bandwidth = 963.6

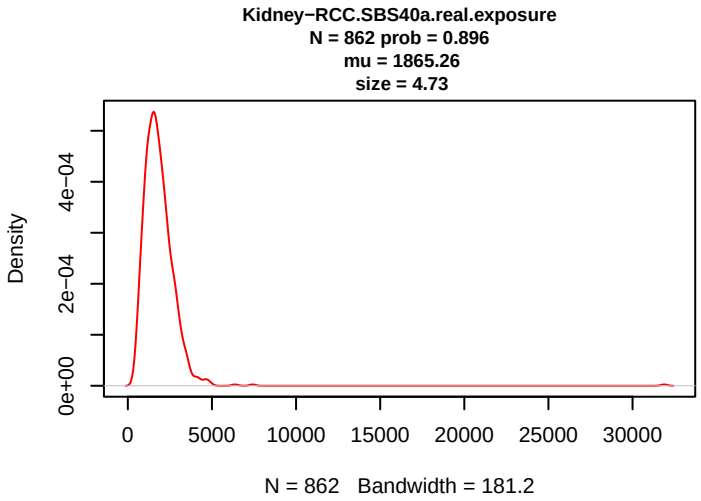

Kidney−RCC.SBS22b.synthetic.exposure
N = 10 prob = 0.1
mu = 3306.69
size = 2.34
p−value = 0.076
real.exposure
synthetic.exposure
Density
0.00000
0.00010
0.00020
0
5000
10000
15000
Two−sample Kolmogorov−Smirnov test

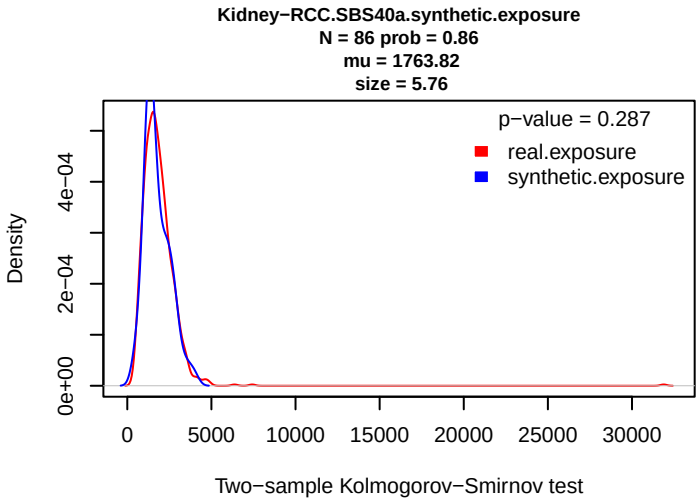

Kidney−RCC.SBS22b.noisy.exposure
N = 10 prob = 0.1
neg.binom.size = 9
mu = 3461.34
size = 2.09
p−value = 0.124
real.exposure
noisy.exposure
Density
0.00000
0.00010
0.00020
0
5000
10000
15000
Two−sample Kolmogorov−Smirnov test

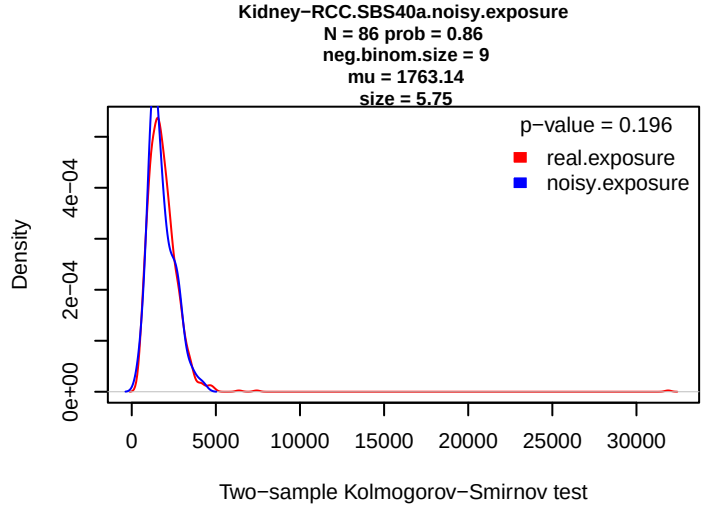

Kidney−RCC.SBS40a.real.exposure
N = 862 prob = 0.896
mu = 1865.26
size = 4.73
Density
0e+00
4e−04
0
5000
10000
15000
20000
25000
30000
counts

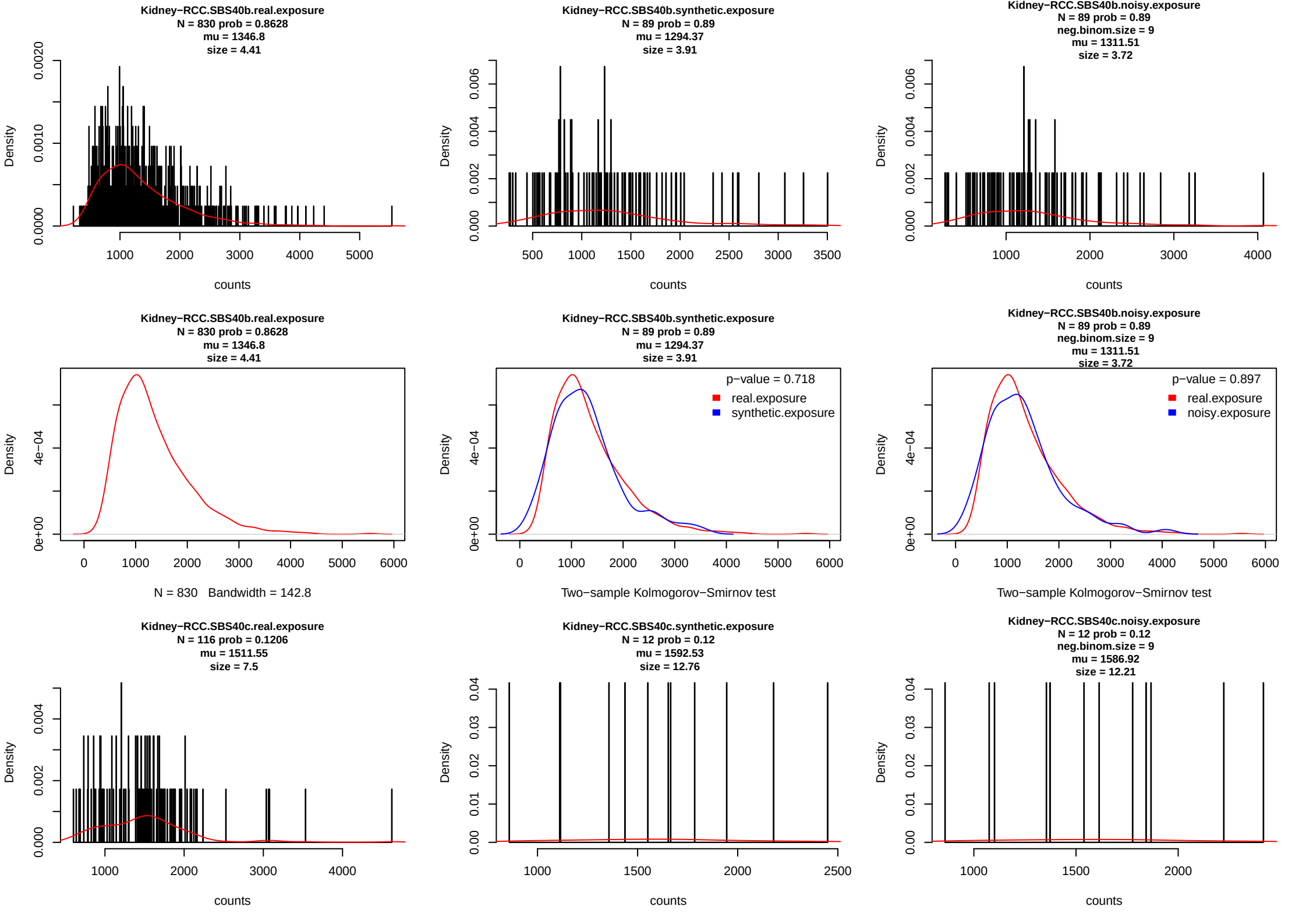

Kidney−RCC.SBS40a.synthetic.exposure
N = 86 prob = 0.86
mu = 1763.82
size = 5.76
Density
0.000
0.002
0.004
0.006
500
1000
1500
2000
2500
3000
3500
4000
counts

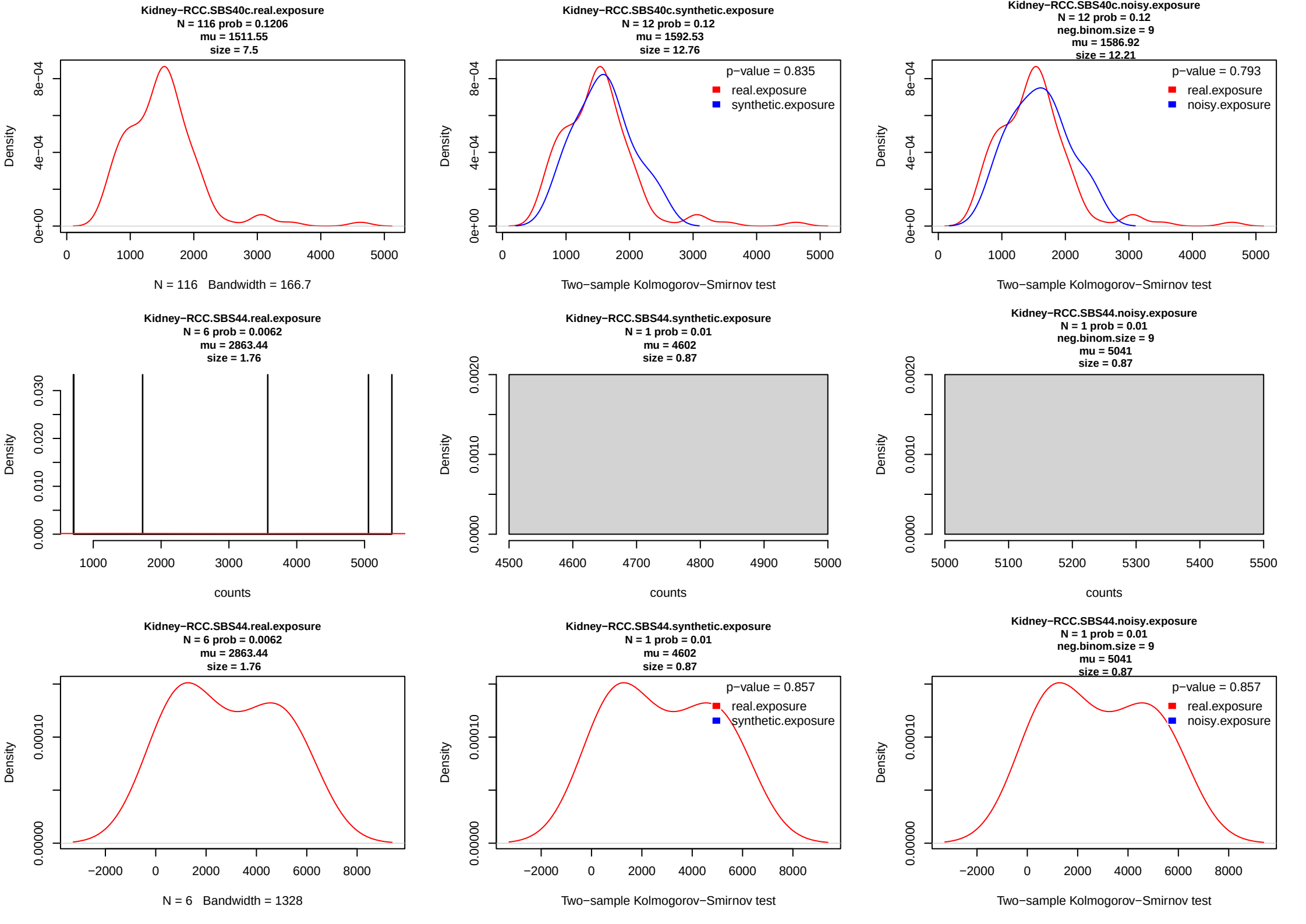

Kidney−RCC.SBS40a.noisy.exposure
N = 86 prob = 0.86
neg.binom.size = 9
mu = 1763.14
size = 5.75
Density
0.000
0.002
0.004
1000
2000
3000
4000
counts

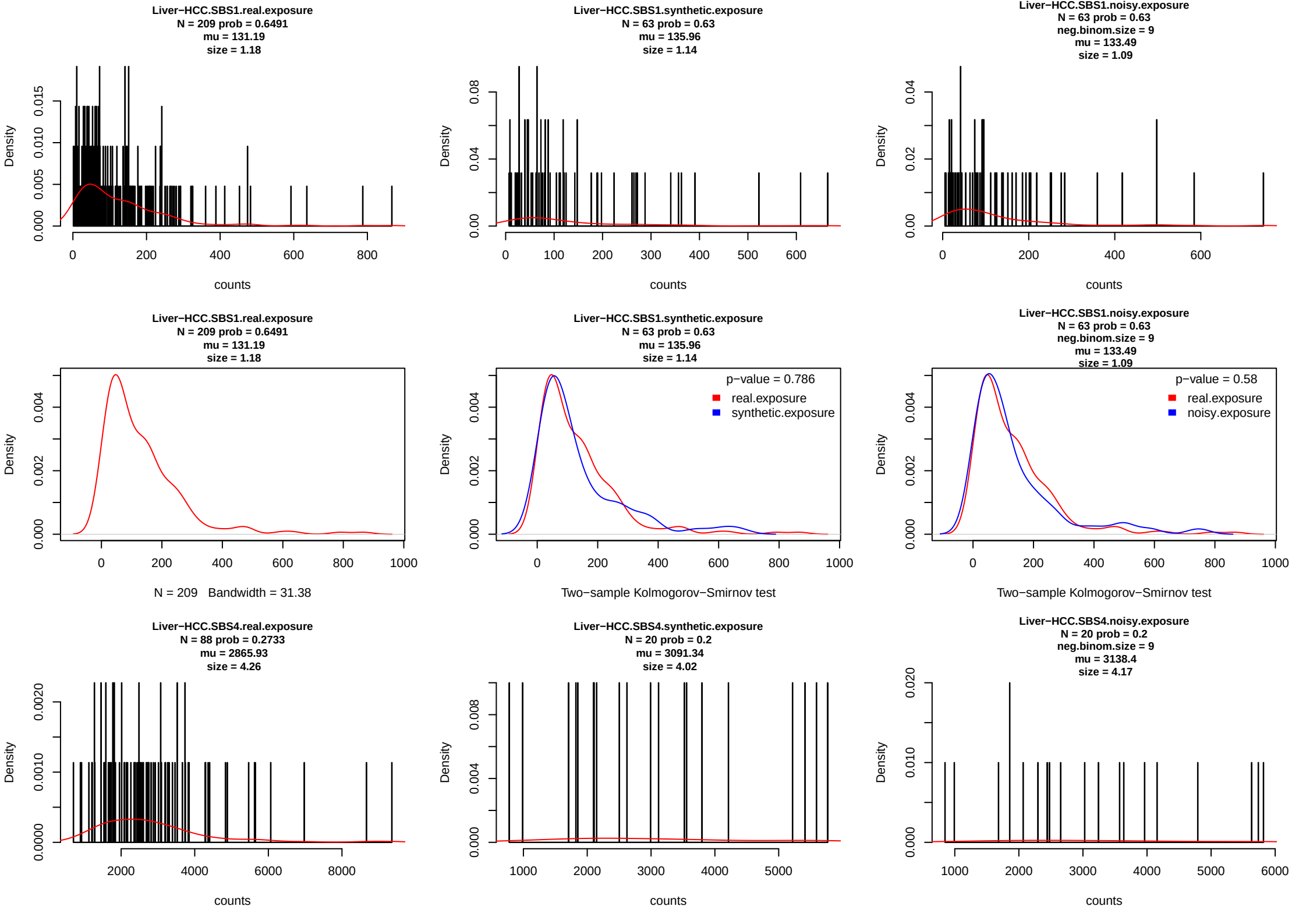

Kidney−RCC.SBS40a.real.exposure
N = 862 prob = 0.896
mu = 1865.26
size = 4.73
Density
0e+00
2e−04
4e−04
0
5000
10000
15000
20000
25000
30000
N = 862 Bandwidth = 181.2

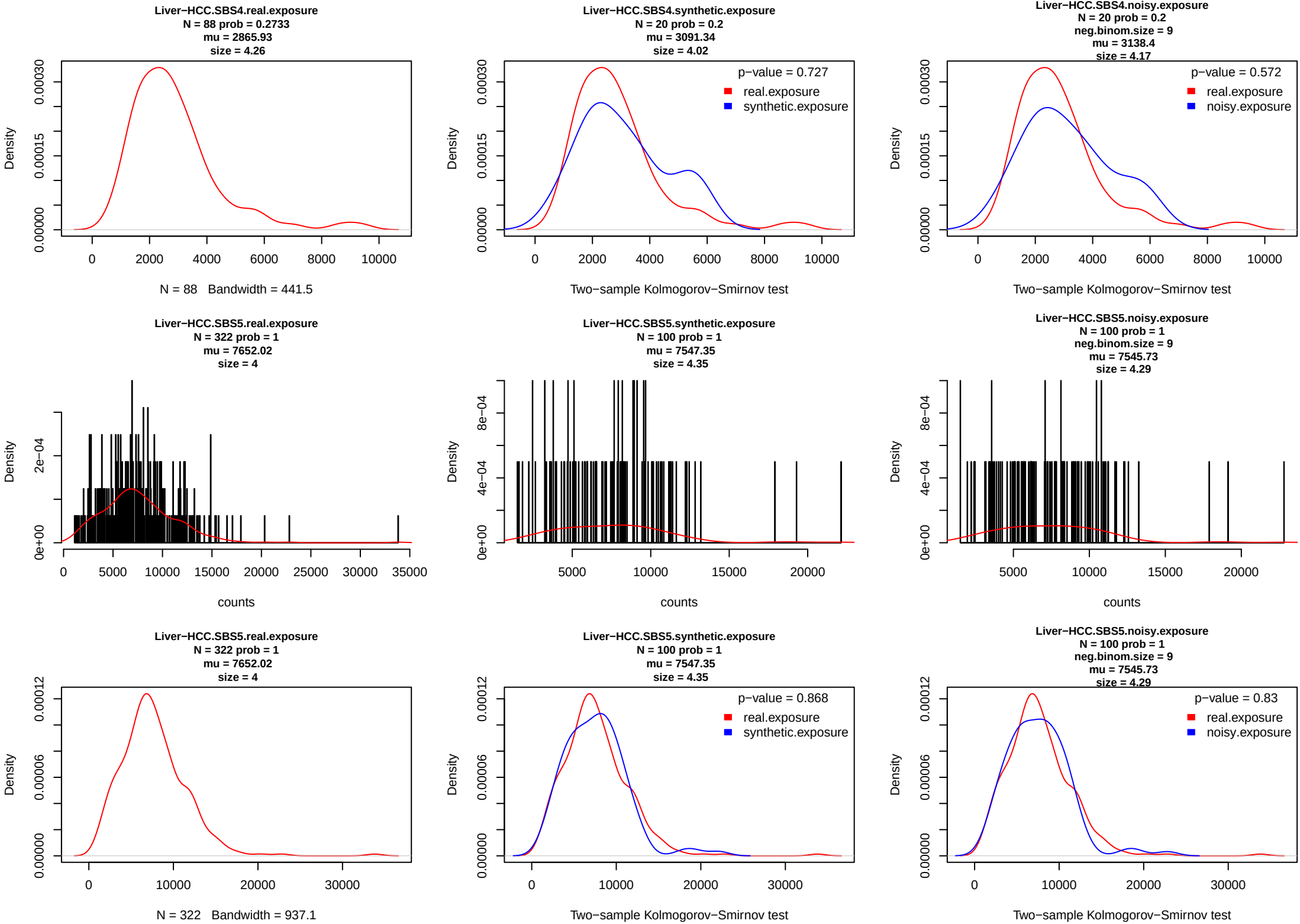

Kidney−RCC.SBS40a.synthetic.exposure
N = 86 prob = 0.86
mu = 1763.82
size = 5.76
p−value = 0.287
real.exposure
synthetic.exposure
Density
0e+00
2e−04
4e−04
0
5000
10000
15000
20000
25000
30000
Two−sample Kolmogorov−Smirnov test

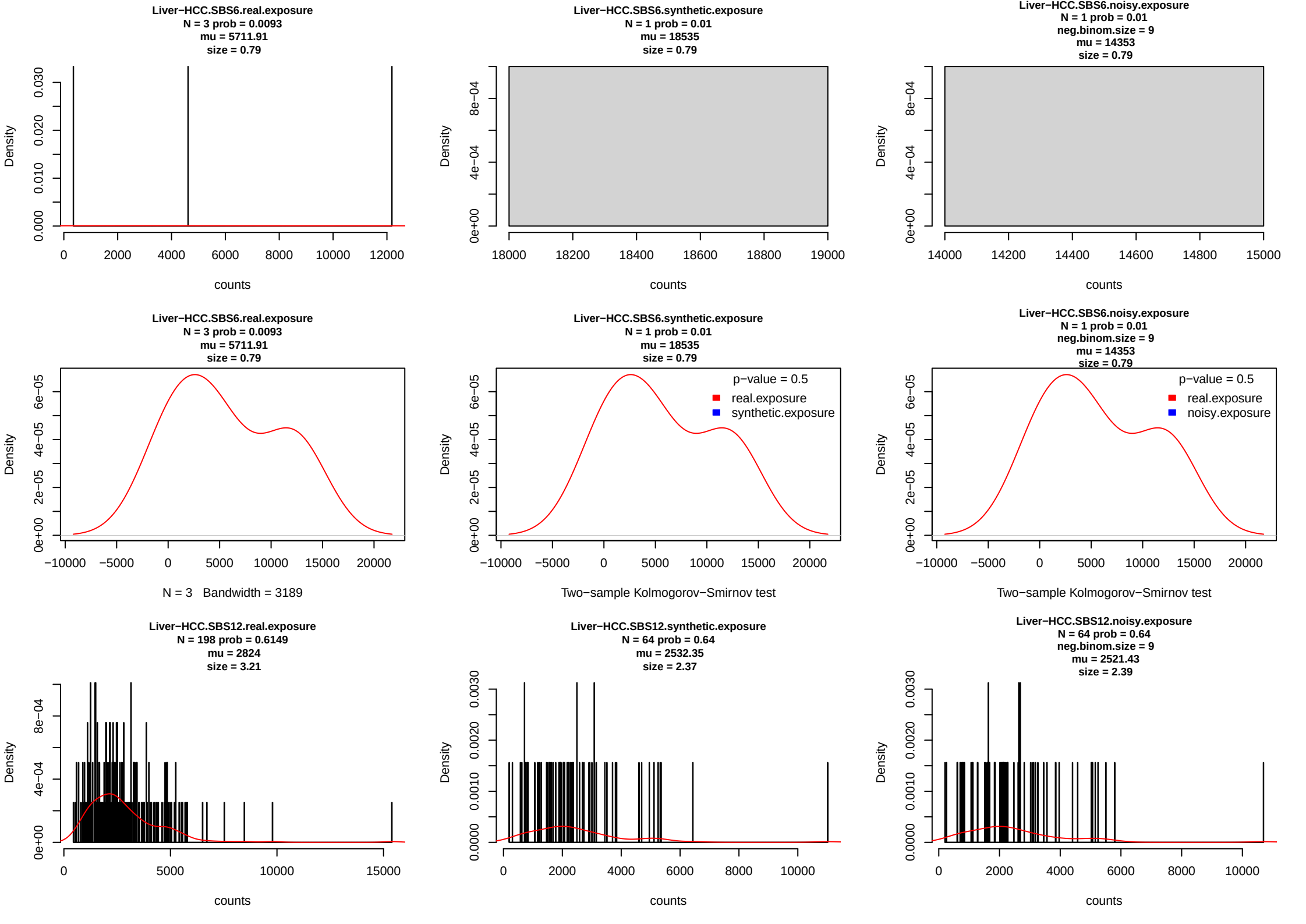

Kidney−RCC.SBS40a.noisy.exposure
N = 86 prob = 0.86
neg.binom.size = 9
mu = 1763.14
size = 5.75
p−value = 0.196
real.exposure
noisy.exposure
Density
0e+00
2e−04
4e−04
0
5000
10000
15000
20000
25000
30000
Two−sample Kolmogorov−Smirnov test

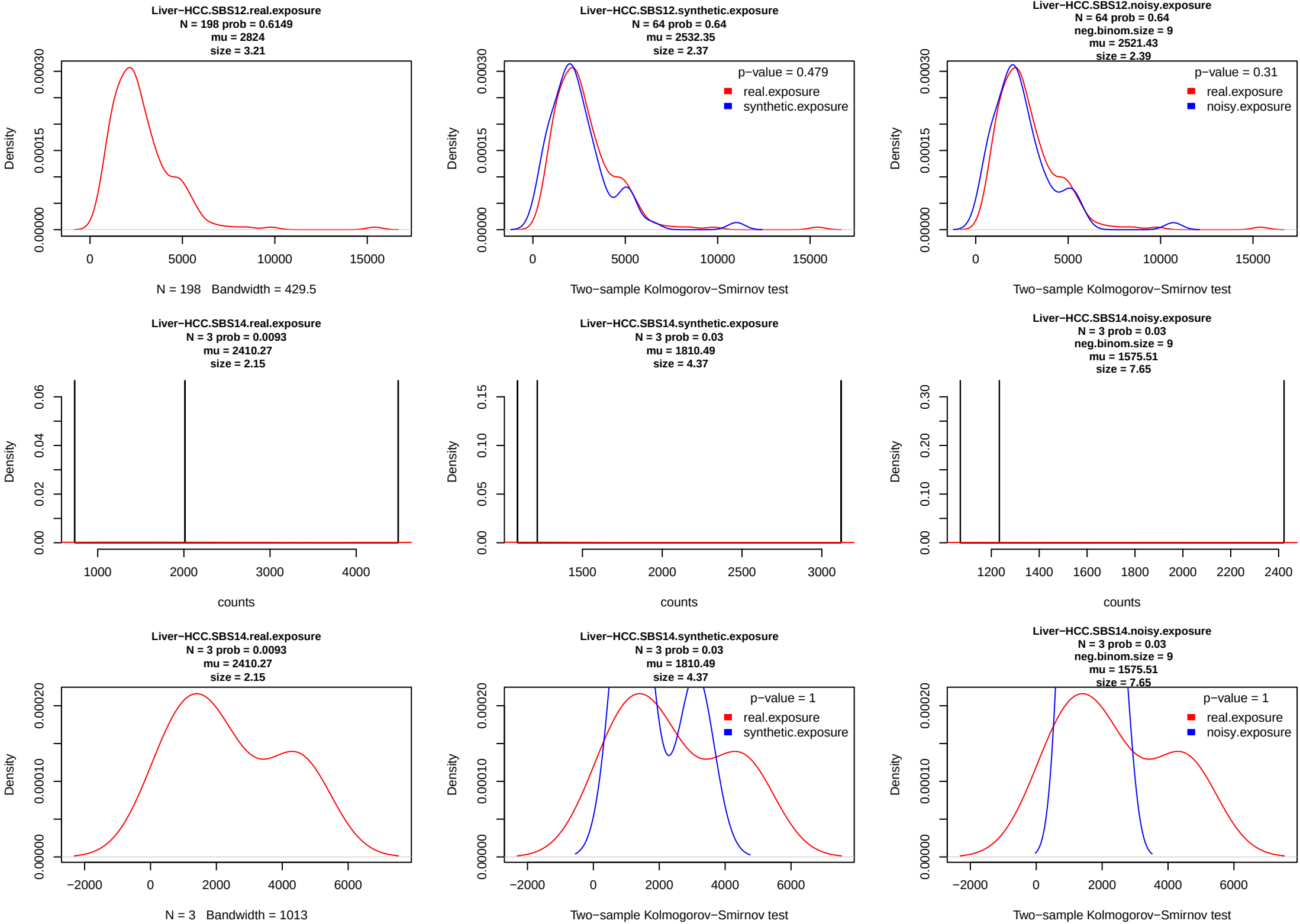

Kidney−RCC.SBS40b.real.exposure
N = 830 prob = 0.8628
mu = 1346.8
size = 4.41
Kidney−RCC.SBS40b.synthetic.exposure
N = 89 prob = 0.89
mu = 1294.37
size = 3.91
Kidney−RCC.SBS40b.noisy.exposure
N = 89 prob = 0.89
neg.binom.size = 9
mu = 1311.51
size = 3.72
Density
counts
N = 830 Bandwidth = 142.8
p−value = 0.718
real.exposure
synthetic.exposure
p−value = 0.897
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS40c.real.exposure
N = 116 prob = 0.1206
mu = 1511.55
size = 7.5
Kidney−RCC.SBS40c.synthetic.exposure
N = 12 prob = 0.12
mu = 1592.53
size = 12.76
Kidney−RCC.SBS40c.noisy.exposure
N = 12 prob = 0.12
neg.binom.size = 9
mu = 1586.92
size = 12.21

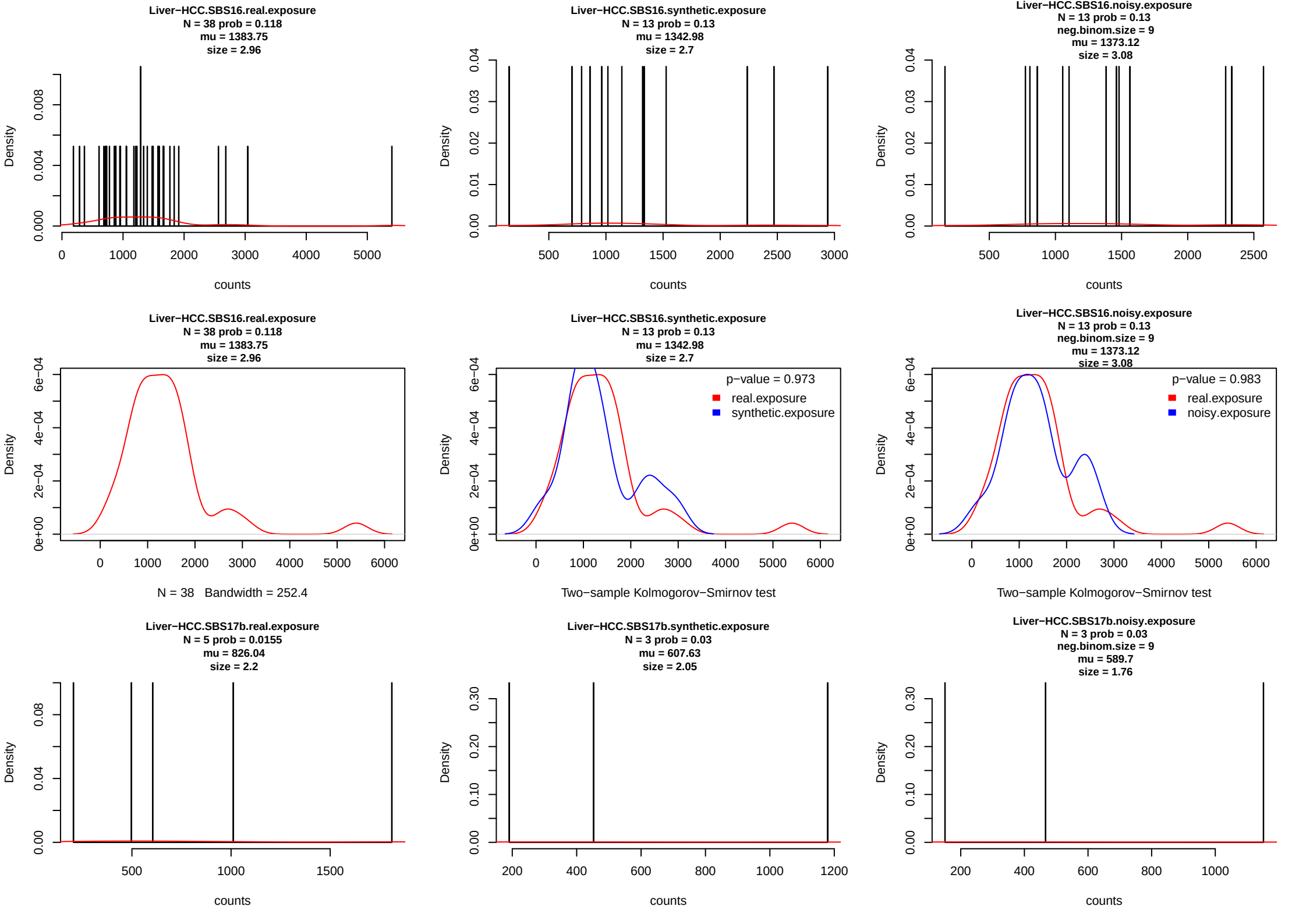

Kidney−RCC.SBS40c.real.exposure
N = 116 prob = 0.1206
mu = 1511.55
size = 7.5
Density
N = 116 Bandwidth = 166.7
Kidney−RCC.SBS40c.synthetic.exposure
N = 12 prob = 0.12
mu = 1592.53
size = 12.76
p−value = 0.835
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS40c.noisy.exposure
N = 12 prob = 0.12
neg.binom.size = 9
mu = 1586.92
size = 12.21
p−value = 0.793
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS44.real.exposure
N = 6 prob = 0.0062
mu = 2863.44
size = 1.76
counts
Kidney−RCC.SBS44.synthetic.exposure
N = 1 prob = 0.01
mu = 4602
size = 0.87
Kidney−RCC.SBS44.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 5041
size = 0.87
Kidney−RCC.SBS44.real.exposure
N = 6 prob = 0.0062
mu = 2863.44
size = 1.76
N = 6 Bandwidth = 1328
Kidney−RCC.SBS44.synthetic.exposure
N = 1 prob = 0.01
mu = 4602
size = 0.87
p−value = 0.857
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Kidney−RCC.SBS44.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 5041
size = 0.87
p−value = 0.857
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

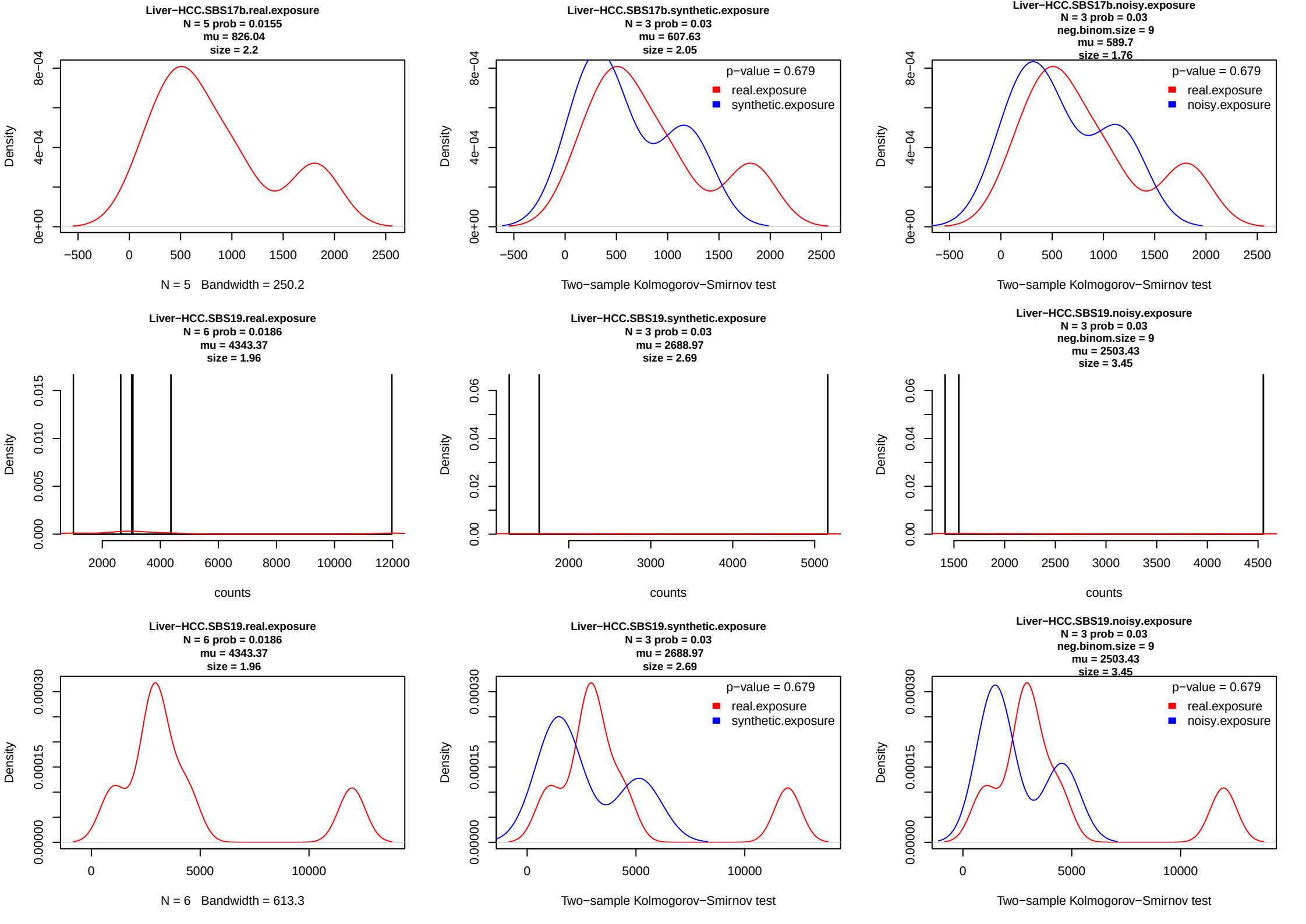

Liver−HCC.SBS1.real.exposure
N = 209 prob = 0.6491
mu = 131.19
size = 1.18
Liver−HCC.SBS1.synthetic.exposure
N = 63 prob = 0.63
mu = 135.96
size = 1.14
Liver−HCC.SBS1.noisy.exposure
N = 63 prob = 0.63
neg.binom.size = 9
mu = 133.49
size = 1.09
Density
counts
N = 209 Bandwidth = 31.38
p−value = 0.786
real.exposure
synthetic.exposure
p−value = 0.58
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS4.real.exposure
N = 88 prob = 0.2733
mu = 2865.93
size = 4.26
Liver−HCC.SBS4.synthetic.exposure
N = 20 prob = 0.2
mu = 3091.34
size = 4.02
Liver−HCC.SBS4.noisy.exposure
N = 20 prob = 0.2
neg.binom.size = 9
mu = 3138.4
size = 4.17

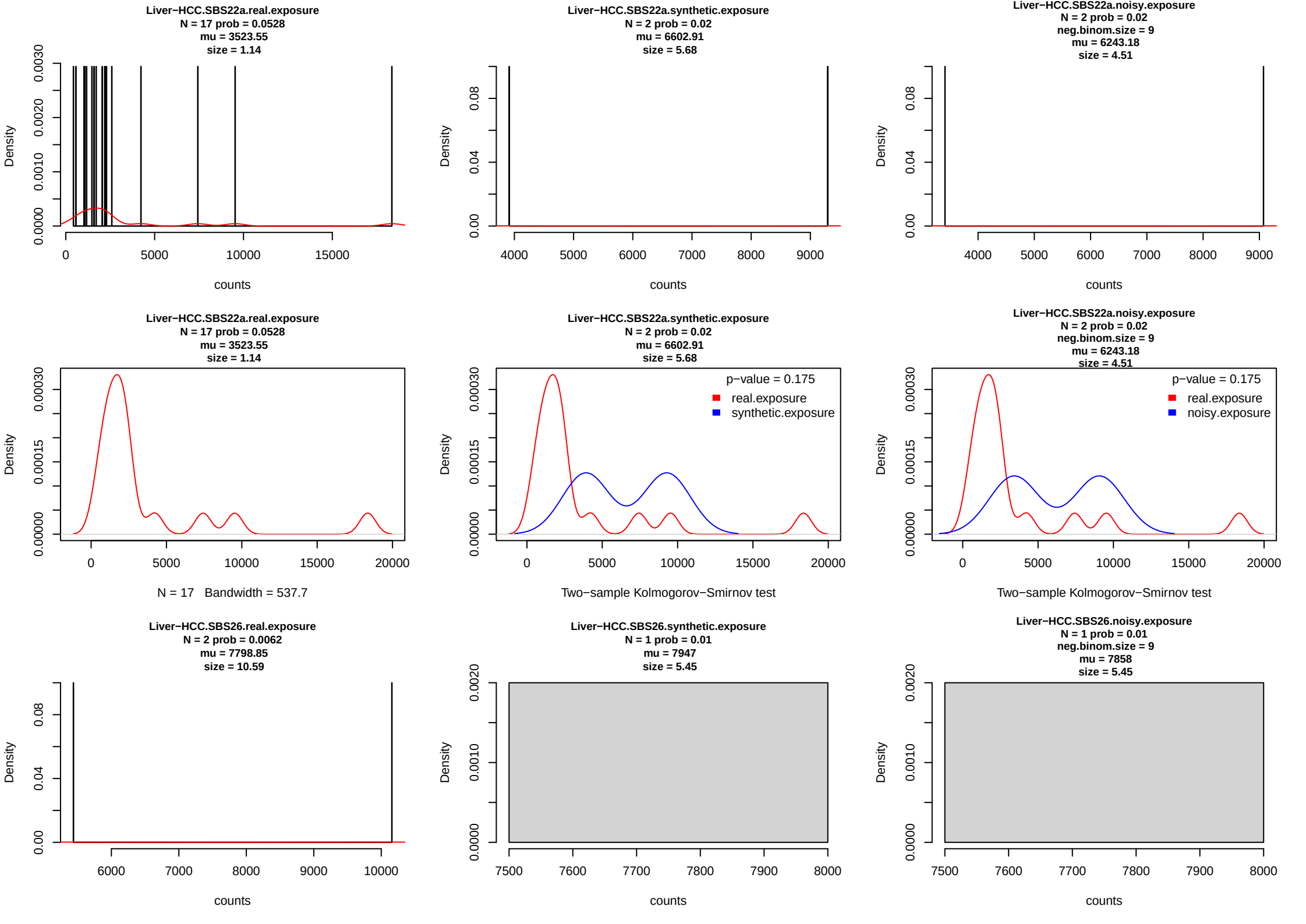

Liver−HCC.SBS4.real.exposure
N = 88 prob = 0.2733
mu = 2865.93
size = 4.26
Density
N = 88 Bandwidth = 441.5
Liver−HCC.SBS4.synthetic.exposure
N = 20 prob = 0.2
mu = 3091.34
size = 4.02
p−value = 0.727
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS4.noisy.exposure
N = 20 prob = 0.2
neg.binom.size = 9
mu = 3138.4
size = 4.17
p−value = 0.572
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS5.real.exposure
N = 322 prob = 1
mu = 7652.02
size = 4
counts
Liver−HCC.SBS5.synthetic.exposure
N = 100 prob = 1
mu = 7547.35
size = 4.35
counts
Liver−HCC.SBS5.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 7545.73
size = 4.29
counts
Liver−HCC.SBS5.real.exposure
N = 322 prob = 1
mu = 7652.02
size = 4
N = 322 Bandwidth = 937.1
Liver−HCC.SBS5.synthetic.exposure
N = 100 prob = 1
mu = 7547.35
size = 4.35
p−value = 0.868
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS5.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 7545.73
size = 4.29
p−value = 0.83
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

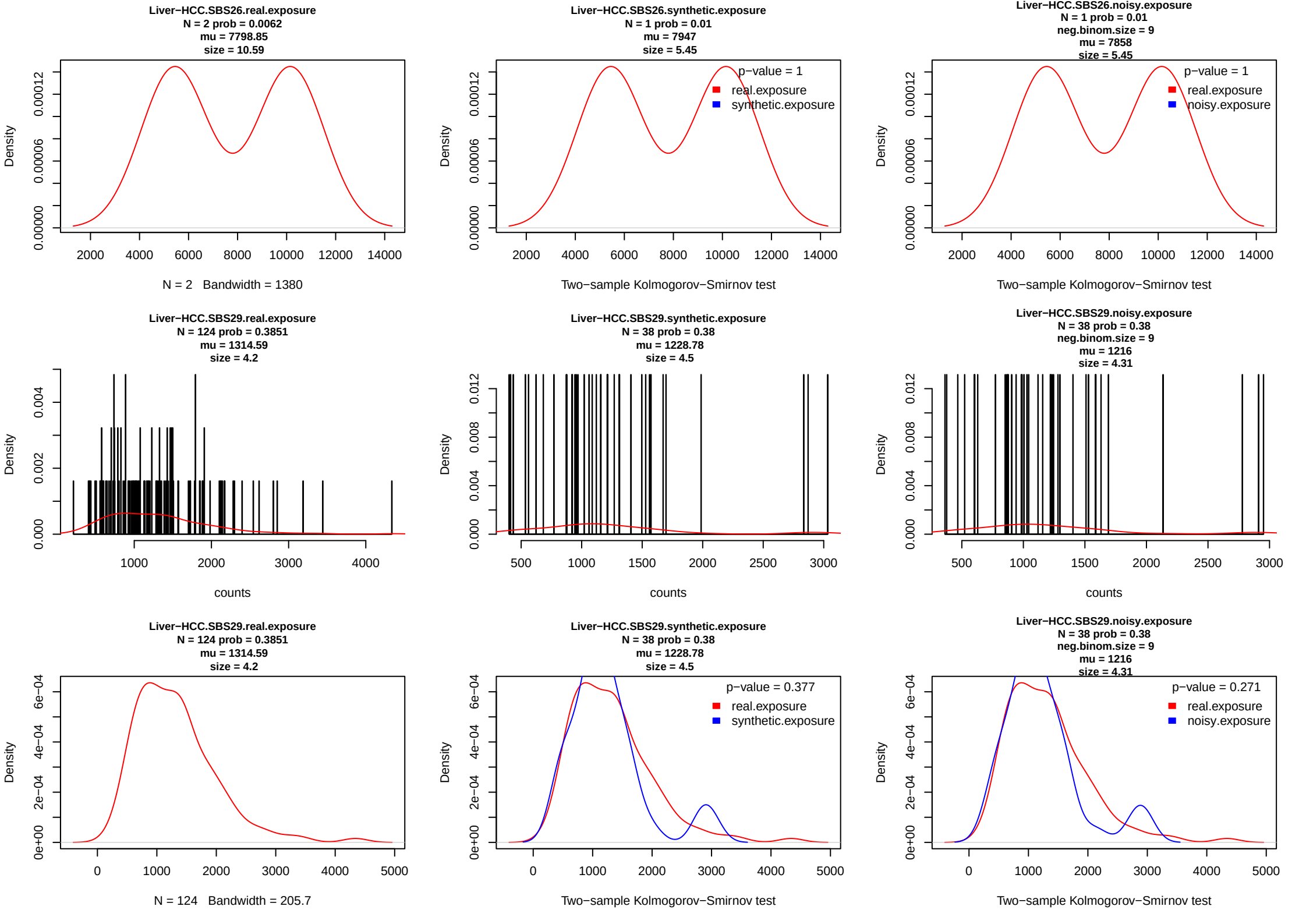

Liver−HCC.SBS6.real.exposure
N = 3 prob = 0.0093
mu = 5711.91
size = 0.79
Liver−HCC.SBS6.synthetic.exposure
N = 1 prob = 0.01
mu = 18535
size = 0.79
Liver−HCC.SBS6.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 14353
size = 0.79
Density
counts
N = 3 Bandwidth = 3189
Two−sample Kolmogorov−Smirnov test
p−value = 0.5
real.exposure
synthetic.exposure
noisy.exposure
Liver−HCC.SBS12.real.exposure
N = 198 prob = 0.6149
mu = 2824
size = 3.21
Liver−HCC.SBS12.synthetic.exposure
N = 64 prob = 0.64
mu = 2532.35
size = 2.37
Liver−HCC.SBS12.noisy.exposure
N = 64 prob = 0.64
neg.binom.size = 9
mu = 2521.43
size = 2.39

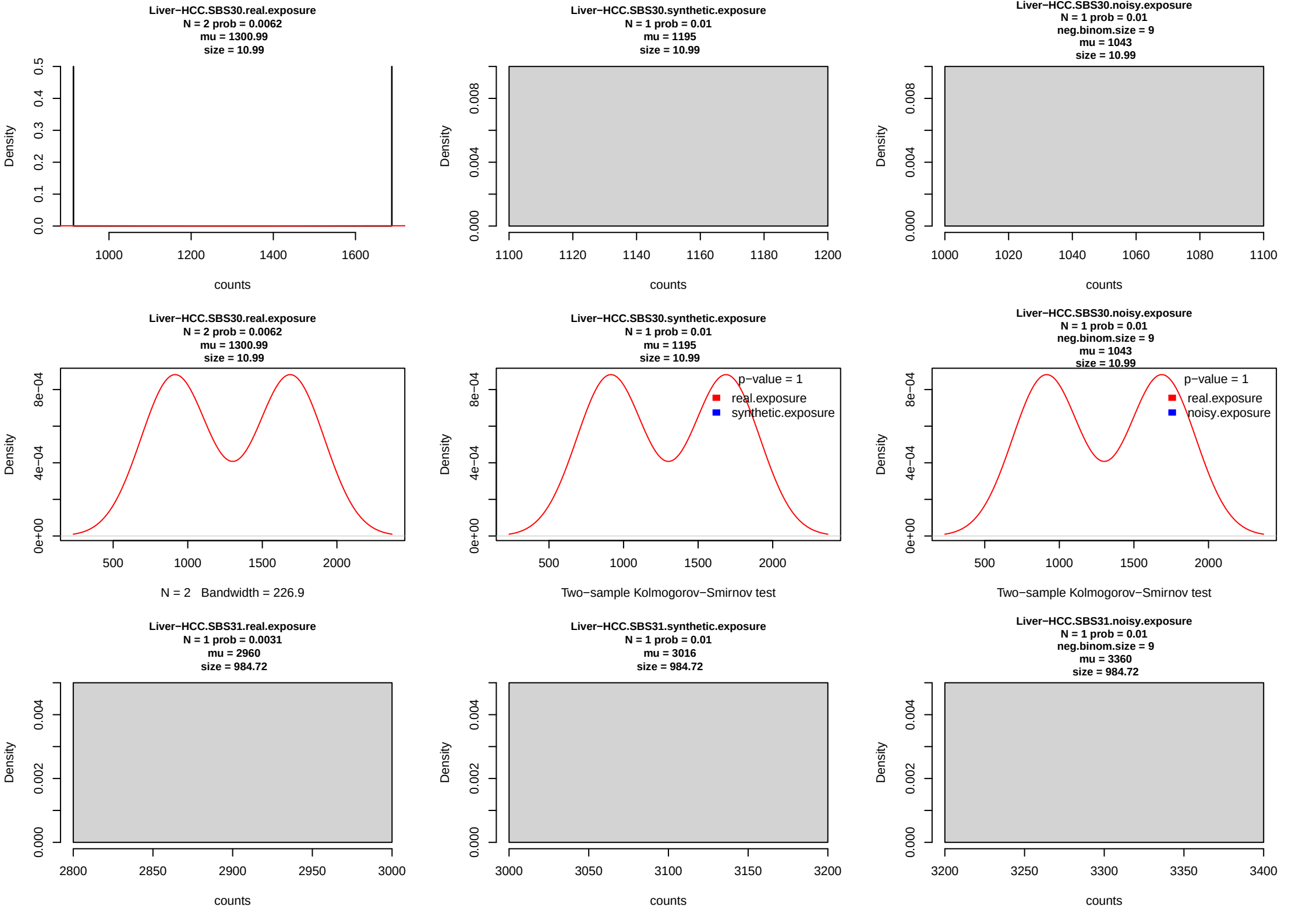

Liver−HCC.SBS12.real.exposure
N = 198 prob = 0.6149
mu = 2824
size = 3.21
Density
N = 198 Bandwidth = 429.5
Liver−HCC.SBS12.synthetic.exposure
N = 64 prob = 0.64
mu = 2532.35
size = 2.37
p−value = 0.479
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS12.noisy.exposure
N = 64 prob = 0.64
neg.binom.size = 9
mu = 2521.43
size = 2.39
p−value = 0.31
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS14.real.exposure
N = 3 prob = 0.0093
mu = 2410.27
size = 2.15
counts
Liver−HCC.SBS14.synthetic.exposure
N = 3 prob = 0.03
mu = 1810.49
size = 4.37
counts
Liver−HCC.SBS14.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 1575.51
size = 7.65
counts
Liver−HCC.SBS14.real.exposure
N = 3 prob = 0.0093
mu = 2410.27
size = 2.15
N = 3 Bandwidth = 1013
Liver−HCC.SBS14.synthetic.exposure
N = 3 prob = 0.03
mu = 1810.49
size = 4.37
p−value = 1
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS14.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 1575.51
size = 7.65
p−value = 1
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

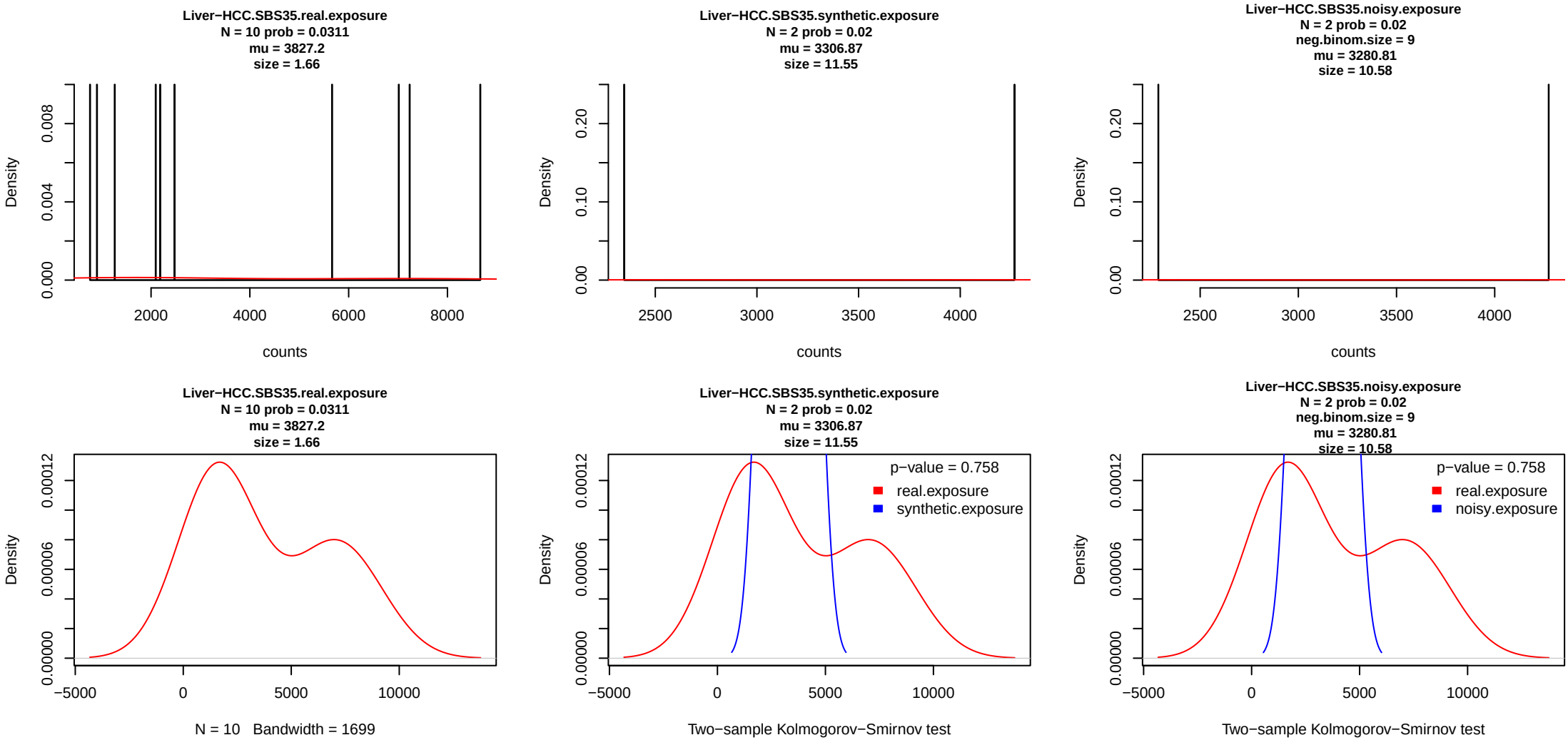

Liver−HCC.SBS16.real.exposure
N = 38 prob = 0.118
mu = 1383.75
size = 2.96
Liver−HCC.SBS16.synthetic.exposure
N = 13 prob = 0.13
mu = 1342.98
size = 2.7
Liver−HCC.SBS16.noisy.exposure
N = 13 prob = 0.13
neg.binom.size = 9
mu = 1373.12
size = 3.08
Density
counts
N = 38 Bandwidth = 252.4
p−value = 0.973
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.983
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS17b.real.exposure
N = 5 prob = 0.0155
mu = 826.04
size = 2.2
Liver−HCC.SBS17b.synthetic.exposure
N = 3 prob = 0.03
mu = 607.63
size = 2.05
Liver−HCC.SBS17b.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 589.7
size = 1.76

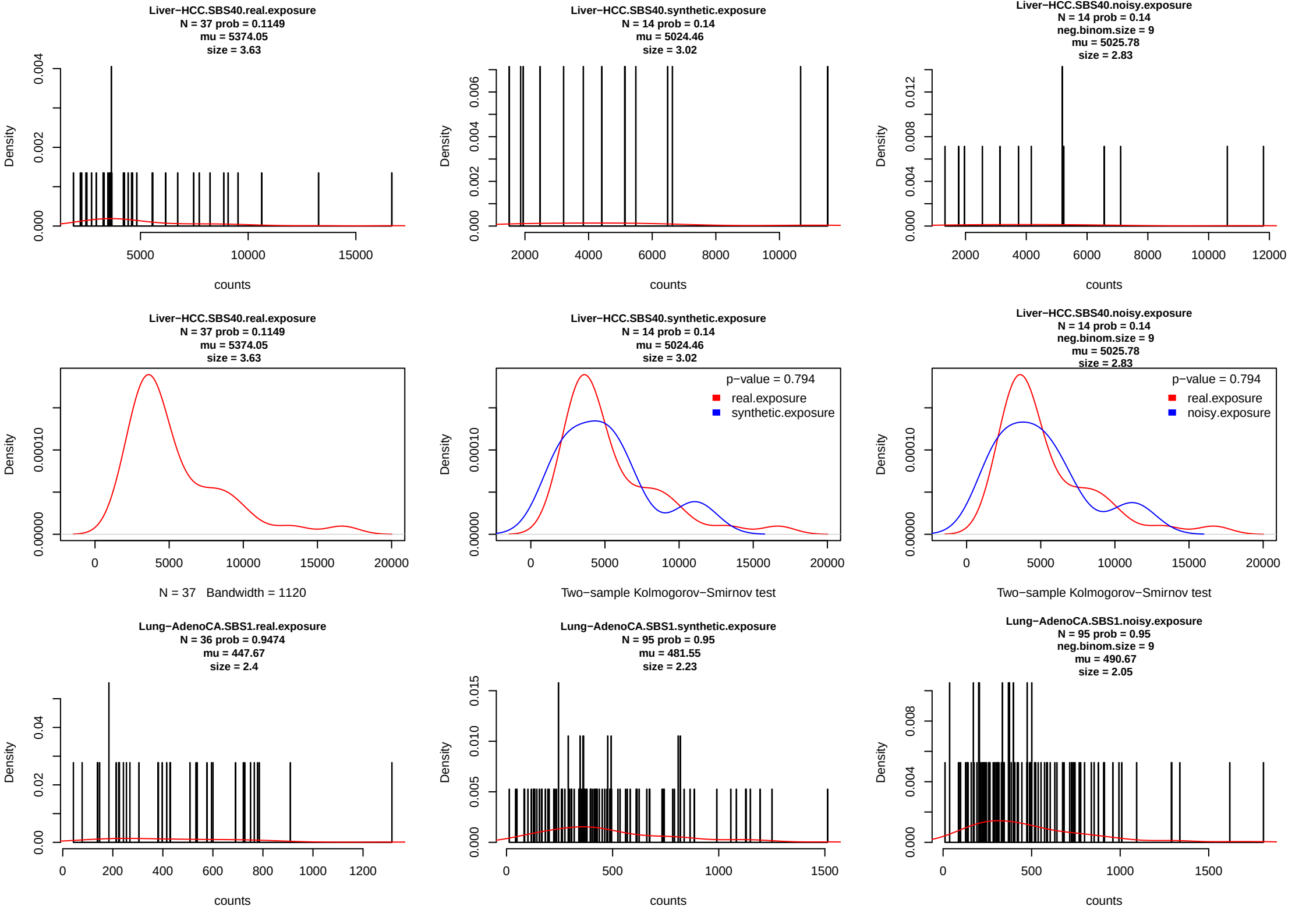

Liver−HCC.SBS17b.real.exposure
N = 5 prob = 0.0155
mu = 826.04
size = 2.2
Density
N = 5 Bandwidth = 250.2
Liver−HCC.SBS17b.synthetic.exposure
N = 3 prob = 0.03
mu = 607.63
size = 2.05
p−value = 0.679
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS17b.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 589.7
size = 1.76
p−value = 0.679
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS19.real.exposure
N = 6 prob = 0.0186
mu = 4343.37
size = 1.96
counts
Liver−HCC.SBS19.synthetic.exposure
N = 3 prob = 0.03
mu = 2688.97
size = 2.69
counts
Liver−HCC.SBS19.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 2503.43
size = 3.45
counts
Liver−HCC.SBS19.real.exposure
N = 6 prob = 0.0186
mu = 4343.37
size = 1.96
N = 6 Bandwidth = 613.3
Liver−HCC.SBS19.synthetic.exposure
N = 3 prob = 0.03
mu = 2688.97
size = 2.69
p−value = 0.679
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS19.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 2503.43
size = 3.45
p−value = 0.679
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

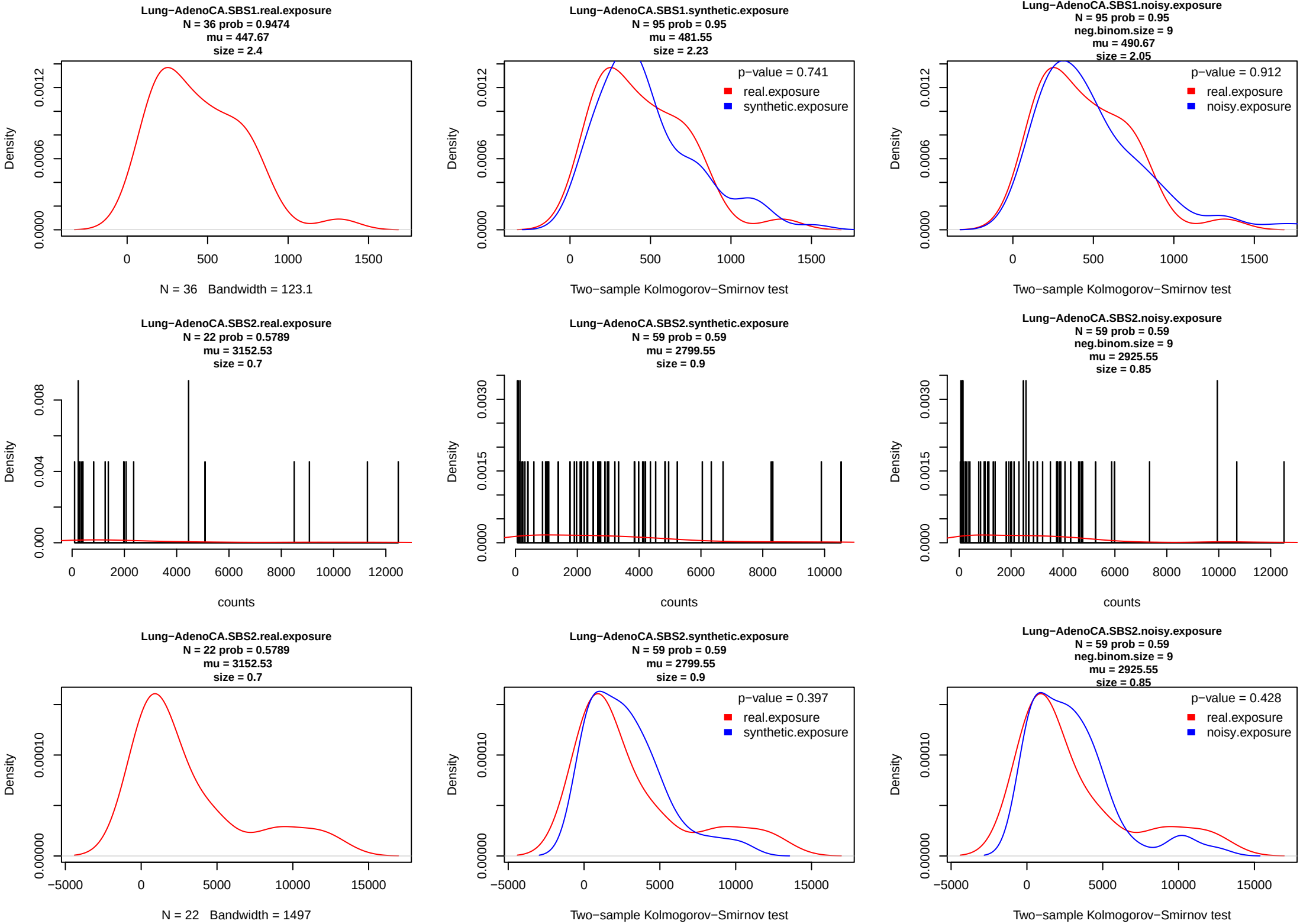

Liver−HCC.SBS22a.real.exposure
N = 17 prob = 0.0528
mu = 3523.55
size = 1.14
Density
counts
Liver−HCC.SBS22a.synthetic.exposure
N = 2 prob = 0.02
mu = 6602.91
size = 5.68
Density
counts
Liver−HCC.SBS22a.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 6243.18
size = 4.51
Density
counts
Liver−HCC.SBS22a.real.exposure
N = 17 prob = 0.0528
mu = 3523.55
size = 1.14
Density
N = 17 Bandwidth = 537.7
Liver−HCC.SBS22a.synthetic.exposure
N = 2 prob = 0.02
mu = 6602.91
size = 5.68
p−value = 0.175
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS22a.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 6243.18
size = 4.51
p−value = 0.175
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS26.real.exposure
N = 2 prob = 0.0062
mu = 7798.85
size = 10.59
Density
counts
Liver−HCC.SBS26.synthetic.exposure
N = 1 prob = 0.01
mu = 7947
size = 5.45
Density
counts
Liver−HCC.SBS26.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 7858
size = 5.45
Density
counts

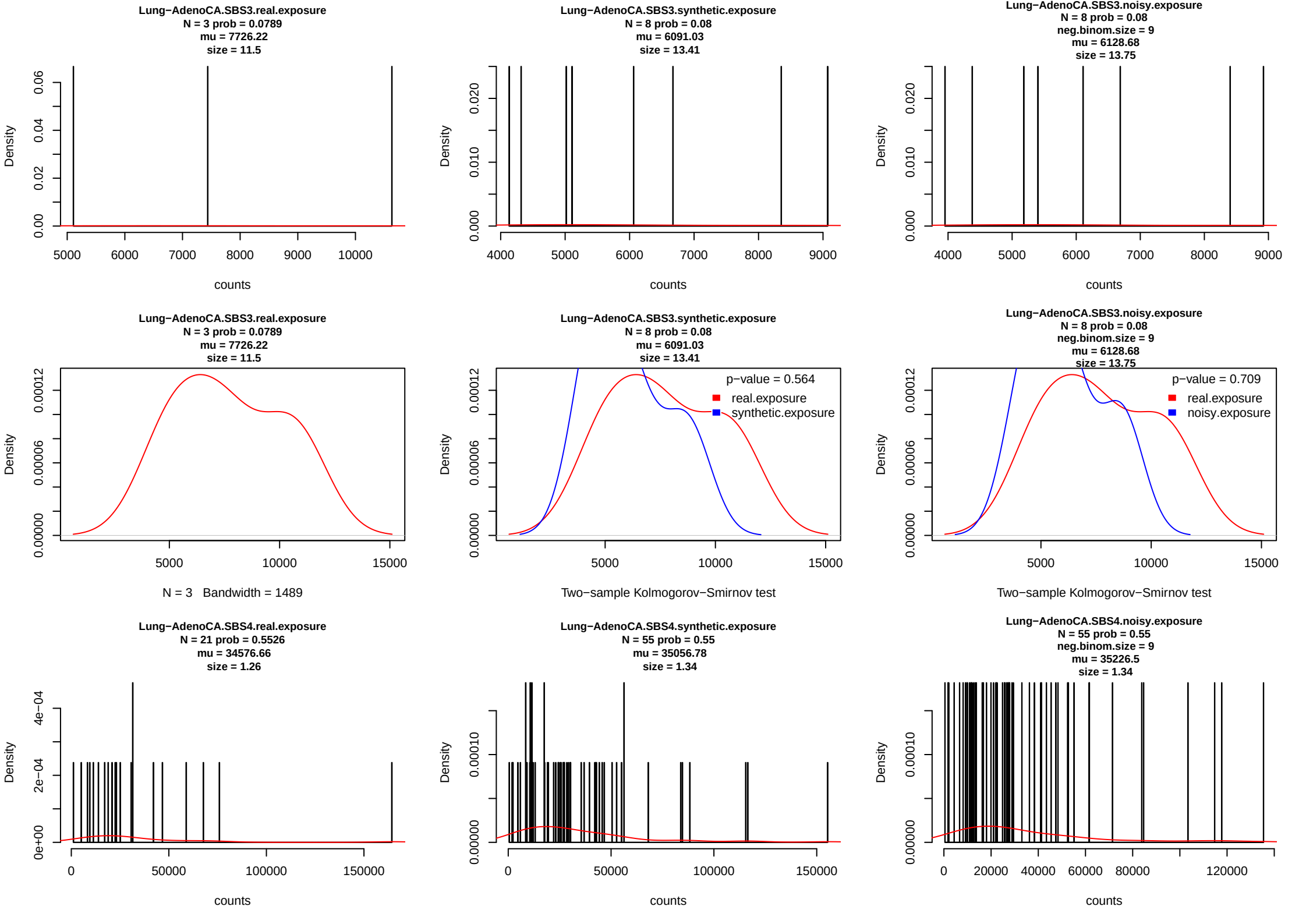

Liver−HCC.SBS26.real.exposure
N = 2 prob = 0.0062
mu = 7798.85
size = 10.59
Density
N = 2 Bandwidth = 1380
Liver−HCC.SBS26.synthetic.exposure
N = 1 prob = 0.01
mu = 7947
size = 5.45
p−value = 1
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS26.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 7858
size = 5.45
p−value = 1
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS29.real.exposure
N = 124 prob = 0.3851
mu = 1314.59
size = 4.2
counts
Liver−HCC.SBS29.synthetic.exposure
N = 38 prob = 0.38
mu = 1228.78
size = 4.5
counts
Liver−HCC.SBS29.noisy.exposure
N = 38 prob = 0.38
neg.binom.size = 9
mu = 1216
size = 4.31
counts
Liver−HCC.SBS29.real.exposure
N = 124 prob = 0.3851
mu = 1314.59
size = 4.2
N = 124 Bandwidth = 205.7
Liver−HCC.SBS29.synthetic.exposure
N = 38 prob = 0.38
mu = 1228.78
size = 4.5
p−value = 0.377
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS29.noisy.exposure
N = 38 prob = 0.38
neg.binom.size = 9
mu = 1216
size = 4.31
p−value = 0.271
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

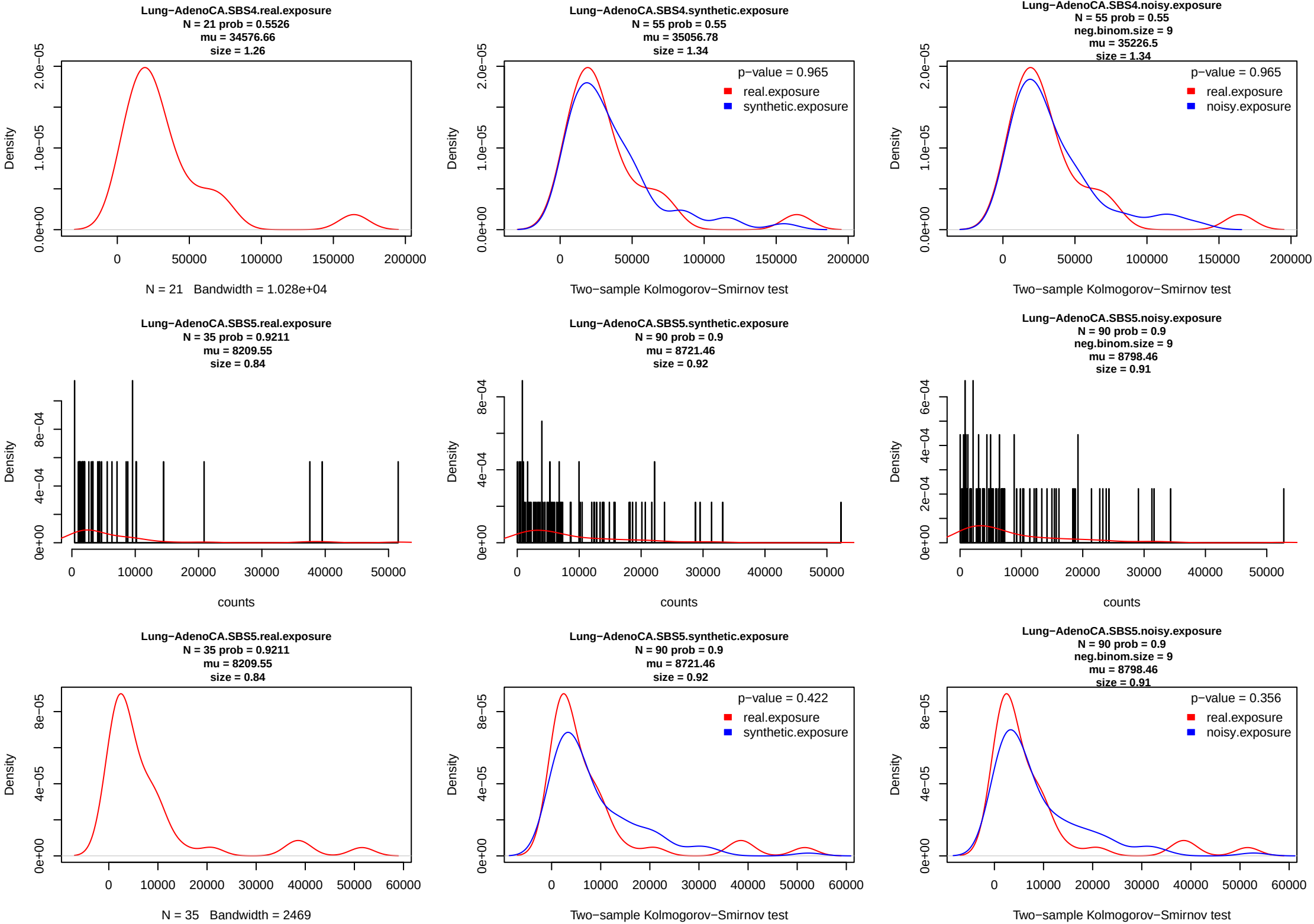

Liver−HCC.SBS30.real.exposure
N = 2 prob = 0.0062
mu = 1300.99
size = 10.99
Liver−HCC.SBS30.synthetic.exposure
N = 1 prob = 0.01
mu = 1195
size = 10.99
Liver−HCC.SBS30.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 1043
size = 10.99
Density
counts
N = 2 Bandwidth = 226.9
p−value = 1
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Liver−HCC.SBS31.real.exposure
N = 1 prob = 0.0031
mu = 2960
size = 984.72
Liver−HCC.SBS31.synthetic.exposure
N = 1 prob = 0.01
mu = 3016
size = 984.72
Liver−HCC.SBS31.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 3360
size = 984.72

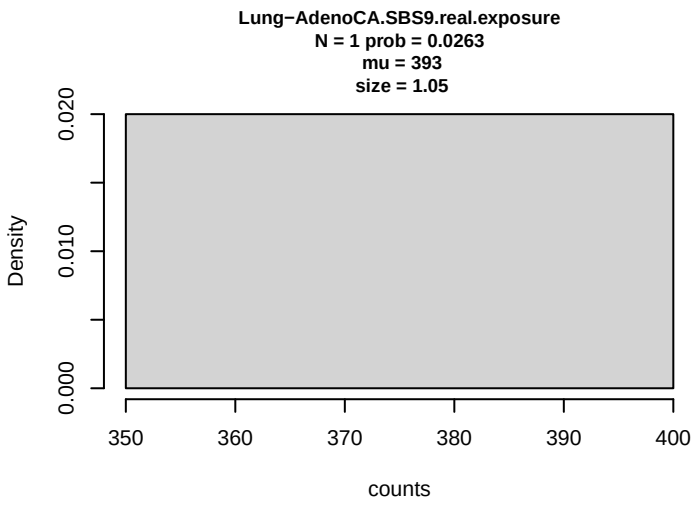

Liver−HCC.SBS35.real.exposure
N = 10 prob = 0.0311
mu = 3827.2
size = 1.66
Density
counts
Liver−HCC.SBS35.synthetic.exposure
N = 2 prob = 0.02
mu = 3306.87
size = 11.55
Liver−HCC.SBS35.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 3280.81
size = 10.58
N = 10 Bandwidth = 1699
p−value = 0.758
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

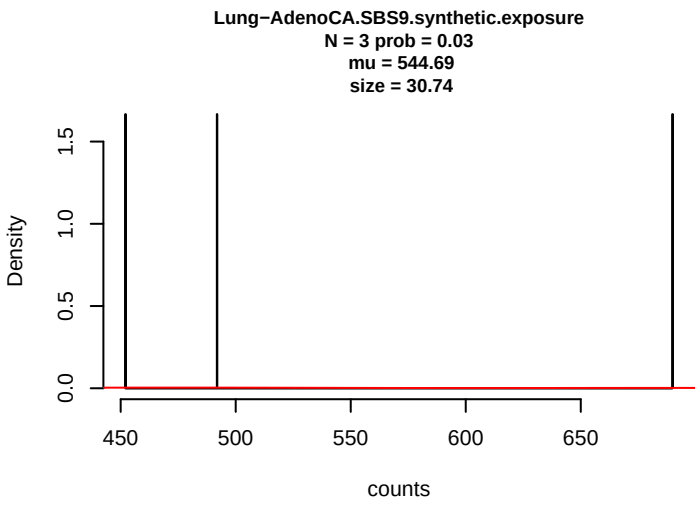

Liver−HCC.SBS40.real.exposure
N = 37 prob = 0.1149
mu = 5374.05
size = 3.63
Liver−HCC.SBS40.synthetic.exposure
N = 14 prob = 0.14
mu = 5024.46
size = 3.02
Liver−HCC.SBS40.noisy.exposure
N = 14 prob = 0.14
neg.binom.size = 9
mu = 5025.78
size = 2.83
Density
counts
N = 37 Bandwidth = 1120
p−value = 0.794
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS1.real.exposure
N = 36 prob = 0.9474
mu = 447.67
size = 2.4
Lung−AdenoCA.SBS1.synthetic.exposure
N = 95 prob = 0.95
mu = 481.55
size = 2.23
Lung−AdenoCA.SBS1.noisy.exposure
N = 95 prob = 0.95
neg.binom.size = 9
mu = 490.67
size = 2.05

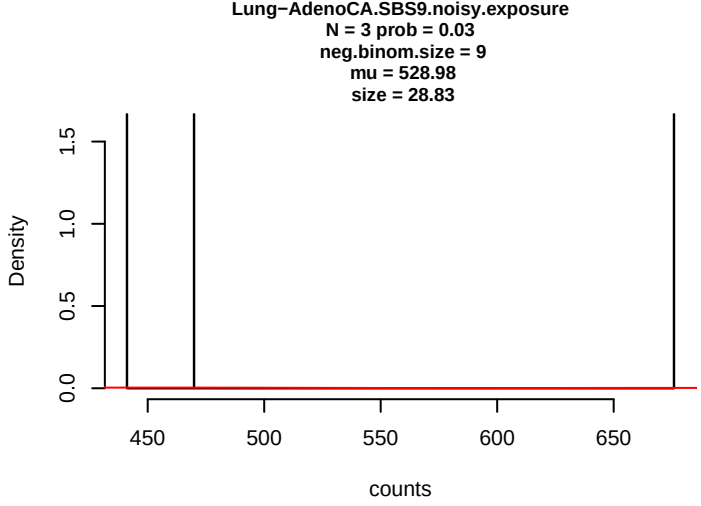

Lung−AdenoCA.SBS1.real.exposure
N = 36 prob = 0.9474
mu = 447.67
size = 2.4
Density
N = 36 Bandwidth = 123.1
Lung−AdenoCA.SBS1.synthetic.exposure
N = 95 prob = 0.95
mu = 481.55
size = 2.23
p−value = 0.741
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS1.noisy.exposure
N = 95 prob = 0.95
neg.binom.size = 9
mu = 490.67
size = 2.05
p−value = 0.912
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS2.real.exposure
N = 22 prob = 0.5789
mu = 3152.53
size = 0.7
counts
Lung−AdenoCA.SBS2.synthetic.exposure
N = 59 prob = 0.59
mu = 2799.55
size = 0.9
counts
Lung−AdenoCA.SBS2.noisy.exposure
N = 59 prob = 0.59
neg.binom.size = 9
mu = 2925.55
size = 0.85
counts
Lung−AdenoCA.SBS2.real.exposure
N = 22 prob = 0.5789
mu = 3152.53
size = 0.7
N = 22 Bandwidth = 1497
Lung−AdenoCA.SBS2.synthetic.exposure
N = 59 prob = 0.59
mu = 2799.55
size = 0.9
p−value = 0.397
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS2.noisy.exposure
N = 59 prob = 0.59
neg.binom.size = 9
mu = 2925.55
size = 0.85
p−value = 0.428
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

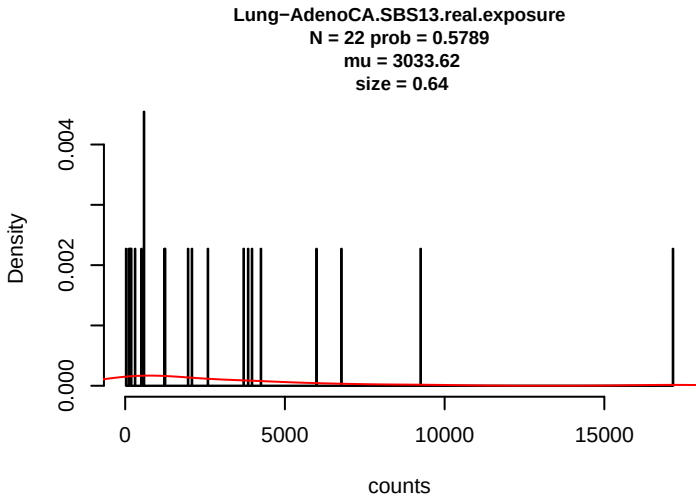

Lung−AdenoCA.SBS3.real.exposure
N = 3 prob = 0.0789
mu = 7726.22
size = 11.5
Density
counts
Lung−AdenoCA.SBS3.synthetic.exposure
N = 8 prob = 0.08
mu = 6091.03
size = 13.41
Density
counts
Lung−AdenoCA.SBS3.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 6128.68
size = 13.75
Density
counts
Lung−AdenoCA.SBS3.real.exposure
N = 3 prob = 0.0789
mu = 7726.22
size = 11.5
Density
N = 3 Bandwidth = 1489
Lung−AdenoCA.SBS3.synthetic.exposure
N = 8 prob = 0.08
mu = 6091.03
size = 13.41
p−value = 0.564
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS3.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 6128.68
size = 13.75
p−value = 0.709
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS4.real.exposure
N = 21 prob = 0.5526
mu = 34576.66
size = 1.26
Density
counts
Lung−AdenoCA.SBS4.synthetic.exposure
N = 55 prob = 0.55
mu = 35056.78
size = 1.34
Density
counts
Lung−AdenoCA.SBS4.noisy.exposure
N = 55 prob = 0.55
neg.binom.size = 9
mu = 35226.5
size = 1.34
Density
counts

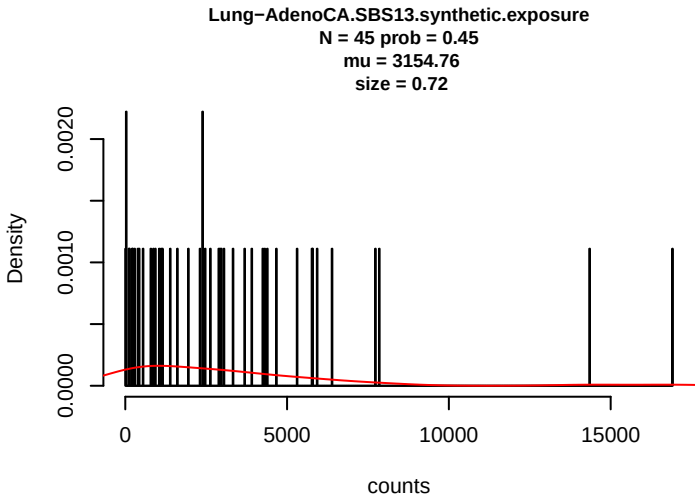

Lung−AdenoCA.SBS4.real.exposure
N = 21 prob = 0.5526
mu = 34576.66
size = 1.26
Density
N = 21 Bandwidth = 1.028e+04
Lung−AdenoCA.SBS4.synthetic.exposure
N = 55 prob = 0.55
mu = 35056.78
size = 1.34
p−value = 0.965
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS4.noisy.exposure
N = 55 prob = 0.55
neg.binom.size = 9
mu = 35226.5
size = 1.34
p−value = 0.965
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS5.real.exposure
N = 35 prob = 0.9211
mu = 8209.55
size = 0.84
counts
Lung−AdenoCA.SBS5.synthetic.exposure
N = 90 prob = 0.9
mu = 8721.46
size = 0.92
counts
Lung−AdenoCA.SBS5.noisy.exposure
N = 90 prob = 0.9
neg.binom.size = 9
mu = 8798.46
size = 0.91
counts
Lung−AdenoCA.SBS5.real.exposure
N = 35 prob = 0.9211
mu = 8209.55
size = 0.84
N = 35 Bandwidth = 2469
Lung−AdenoCA.SBS5.synthetic.exposure
N = 90 prob = 0.9
mu = 8721.46
size = 0.92
p−value = 0.422
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Lung−AdenoCA.SBS5.noisy.exposure
N = 90 prob = 0.9
neg.binom.size = 9
mu = 8798.46
size = 0.91
p−value = 0.356
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

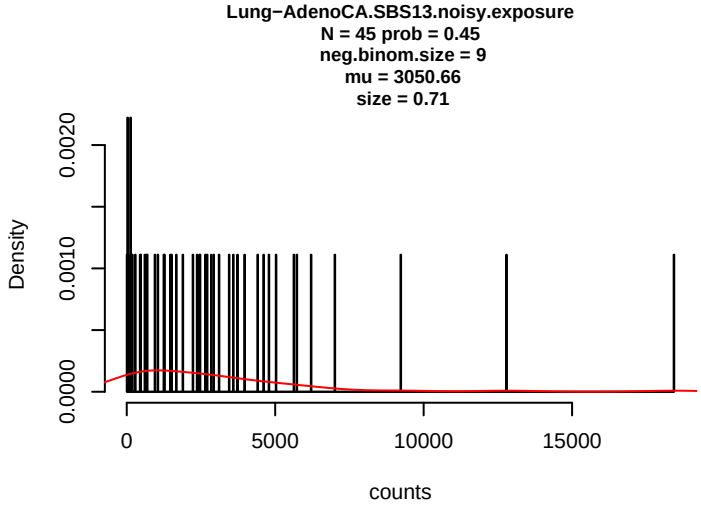

Lung−AdenoCA.SBS9.real.exposure
N = 1 prob = 0.0263
mu = 393
size = 1.05
Density
counts

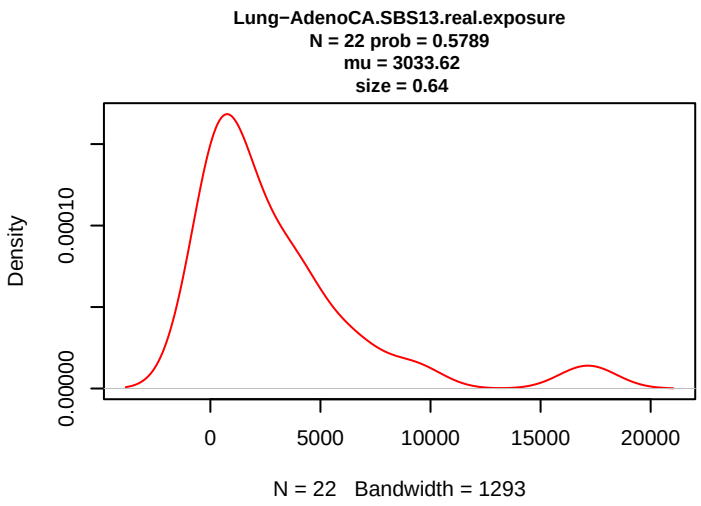

Lung−AdenoCA.SBS9.synthetic.exposure
N = 3 prob = 0.03
mu = 544.69
size = 30.74
Density
counts

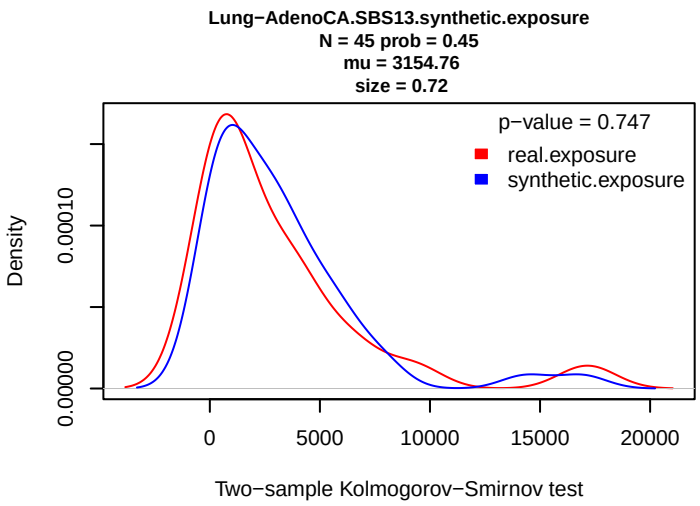

Lung−AdenoCA.SBS9.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 528.98
size = 28.83
Density
counts

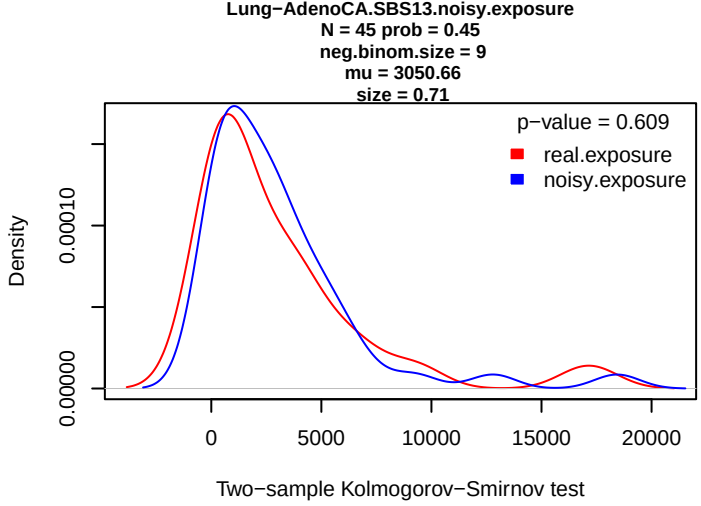

Lung−AdenoCA.SBS13.real.exposure
N = 22 prob = 0.5789
mu = 3033.62
size = 0.64
Density
counts

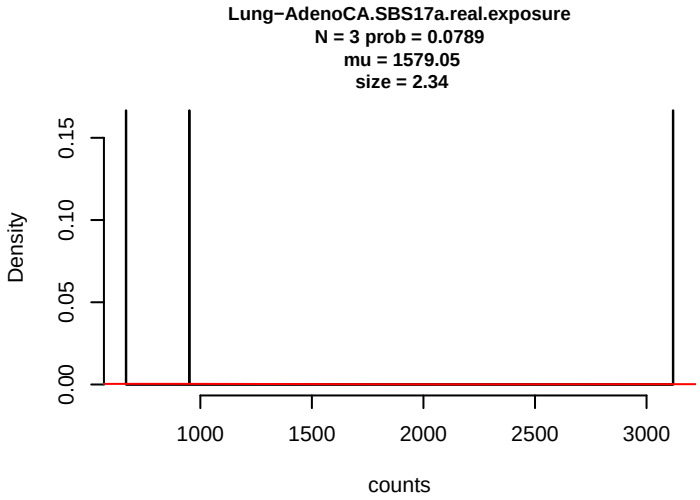

Lung−AdenoCA.SBS13.synthetic.exposure
N = 45 prob = 0.45
mu = 3154.76
size = 0.72
Density
counts

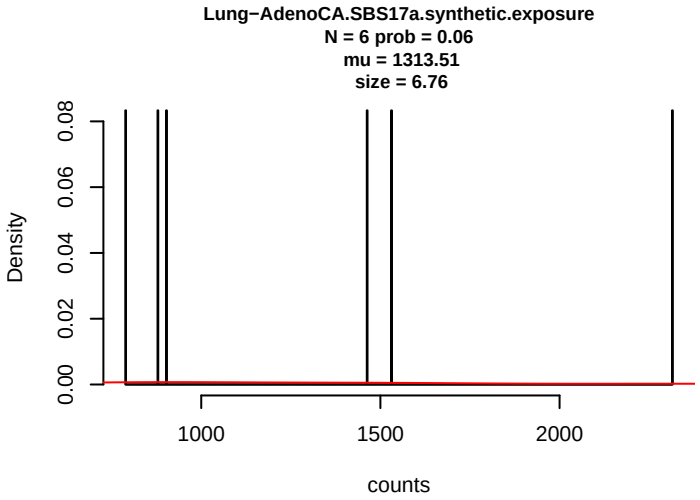

Lung−AdenoCA.SBS13.noisy.exposure
N = 45 prob = 0.45
neg.binom.size = 9
mu = 3050.66
size = 0.71
Density
counts

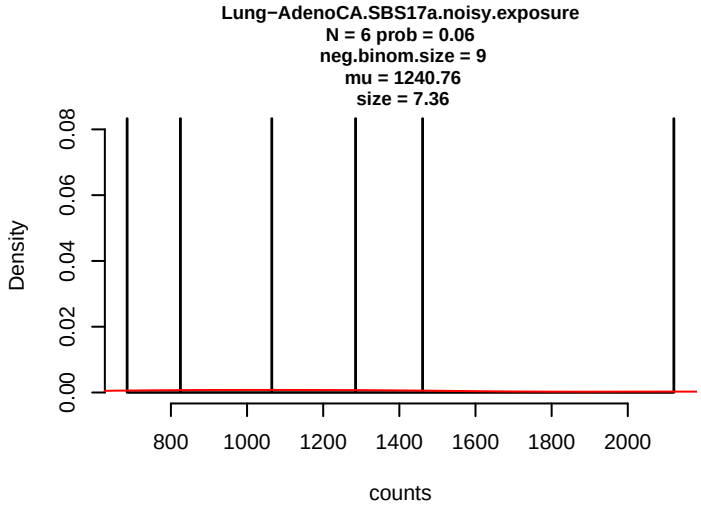

Lung−AdenoCA.SBS13.real.exposure
N = 22 prob = 0.5789
mu = 3033.62
size = 0.64
Density
0.00000
0.00010
0
5000
10000
15000
20000
N = 22 Bandwidth = 1293

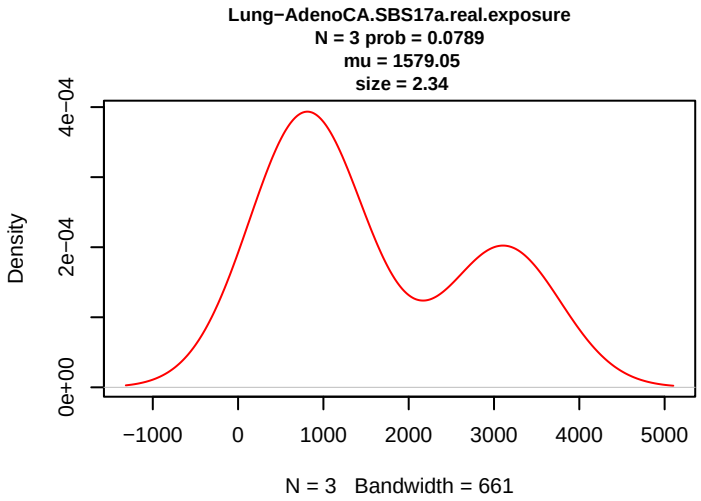

Lung−AdenoCA.SBS13.synthetic.exposure
N = 45 prob = 0.45
mu = 3154.76
size = 0.72
p−value = 0.747
real.exposure
synthetic.exposure
Density
0.00000
0.00010
0
5000
10000
15000
20000
Two−sample Kolmogorov−Smirnov test

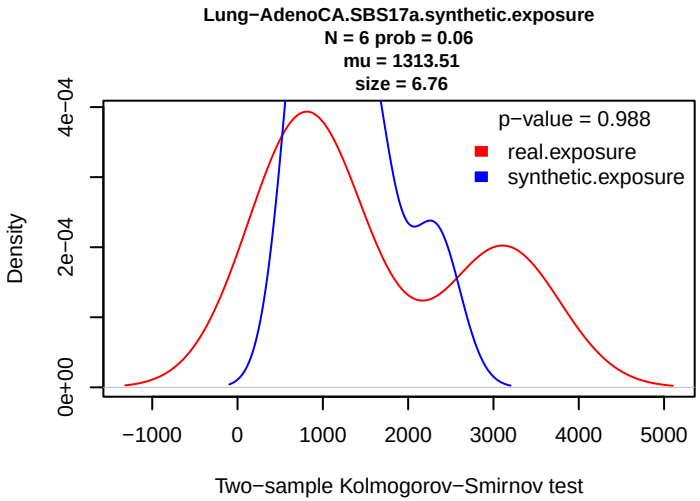

Lung−AdenoCA.SBS13.noisy.exposure
N = 45 prob = 0.45
neg.binom.size = 9
mu = 3050.66
size = 0.71
p−value = 0.609
real.exposure
noisy.exposure
Density
0.00000
0.00010
0
5000
10000
15000
20000
Two−sample Kolmogorov−Smirnov test

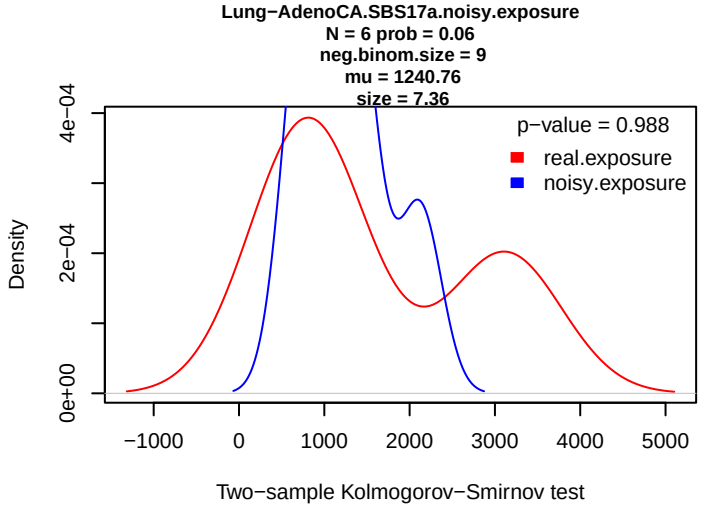

Lung−AdenoCA.SBS17a.real.exposure
N = 3 prob = 0.0789
mu = 1579.05
size = 2.34
Density
0.00
0.05
0.10
0.15
1000
1500
2000
2500
3000
counts

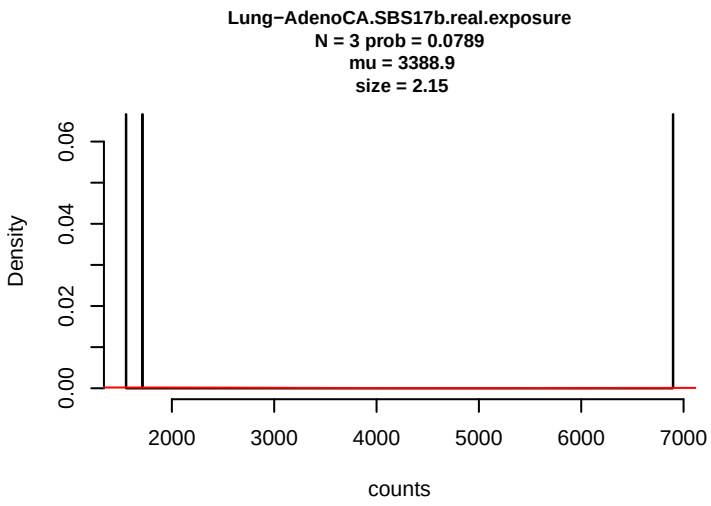

Lung−AdenoCA.SBS17a.synthetic.exposure
N = 6 prob = 0.06
mu = 1313.51
size = 6.76
Density
0.00
0.02
0.04
0.06
0.08
1000
1500
2000
counts

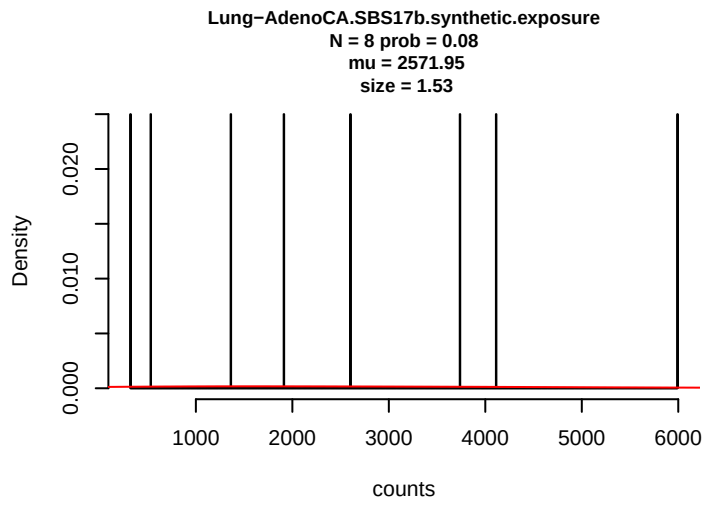

Lung−AdenoCA.SBS17a.noisy.exposure
N = 6 prob = 0.06
neg.binom.size = 9
mu = 1240.76
size = 7.36
Density
0.00
0.02
0.04
0.06
0.08
800
1000
1200
1400
1600
1800
2000
counts

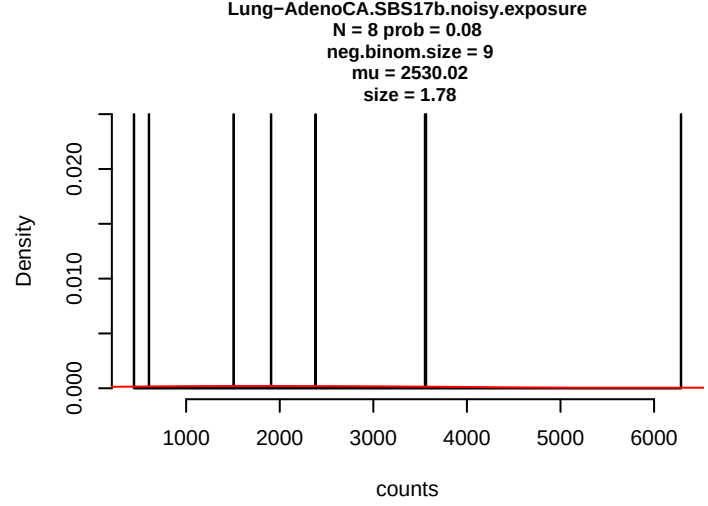

Lung−AdenoCA.SBS17a.real.exposure
N = 3 prob = 0.0789
mu = 1579.05
size = 2.34
Density
0e+00
2e−04
4e−04
−1000
0
1000
2000
3000
4000
5000
N = 3 Bandwidth = 661

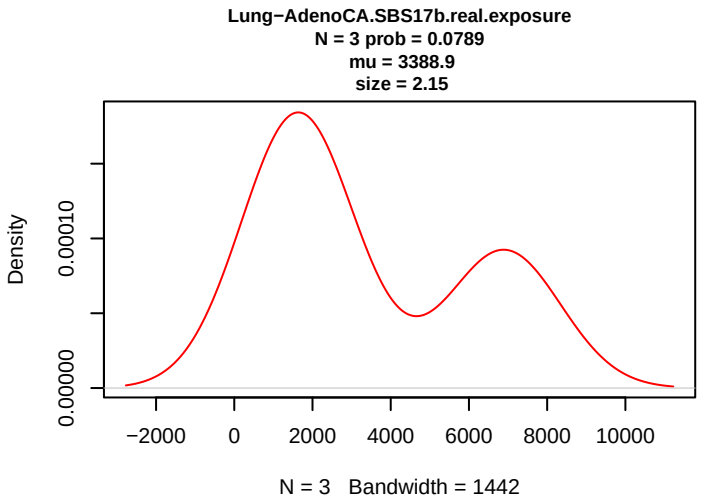

Lung−AdenoCA.SBS17a.synthetic.exposure
N = 6 prob = 0.06
mu = 1313.51
size = 6.76
p−value = 0.988
real.exposure
synthetic.exposure
Density
0e+00
2e−04
4e−04
−1000
0
1000
2000
3000
4000
5000
Two−sample Kolmogorov−Smirnov test

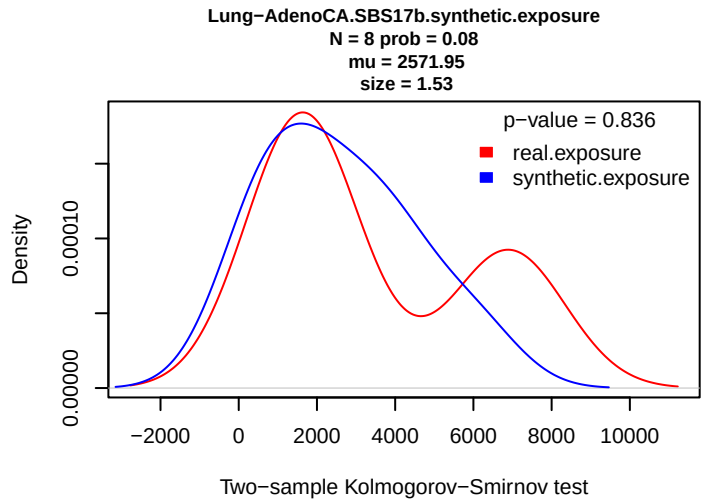

Lung−AdenoCA.SBS17a.noisy.exposure
N = 6 prob = 0.06
neg.binom.size = 9
mu = 1240.76
size = 7.36
p−value = 0.988
real.exposure
noisy.exposure
Density
0e+00
2e−04
4e−04
−1000
0
1000
2000
3000
4000
5000
Two−sample Kolmogorov−Smirnov test

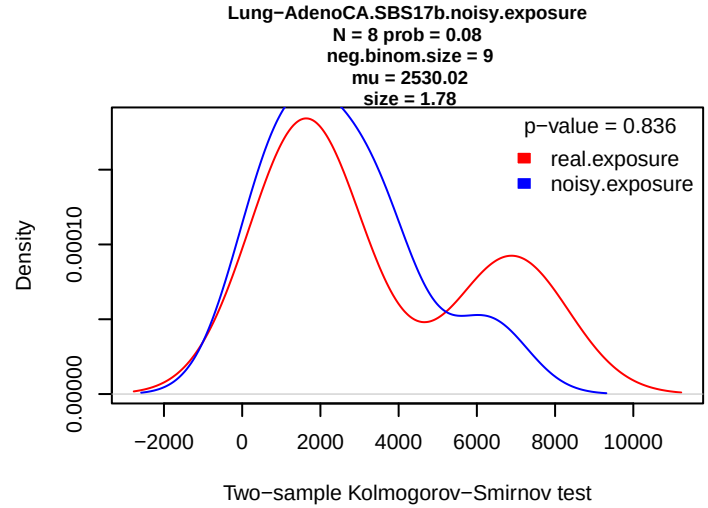

Lung−AdenoCA.SBS17b.real.exposure
N = 3 prob = 0.0789
mu = 3388.9
size = 2.15
Density
counts

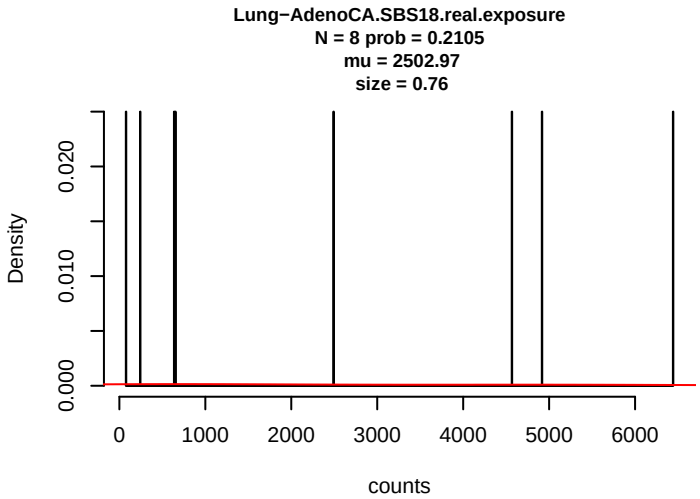

Lung−AdenoCA.SBS17b.synthetic.exposure
N = 8 prob = 0.08
mu = 2571.95
size = 1.53
Density
counts

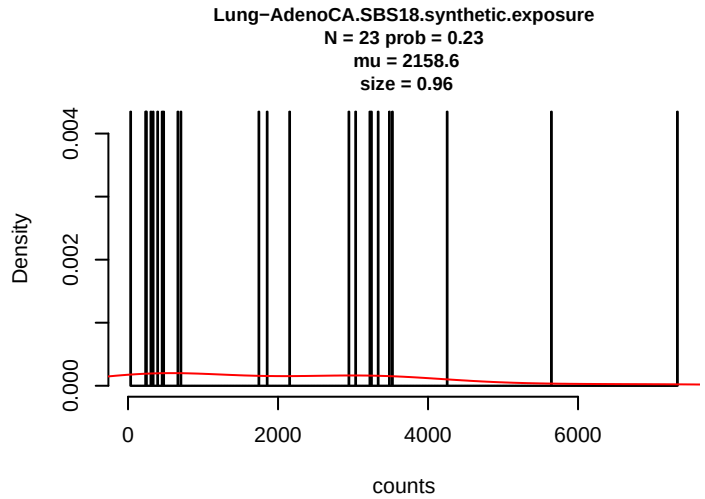

Lung−AdenoCA.SBS17b.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 2530.02
size = 1.78
Density
counts

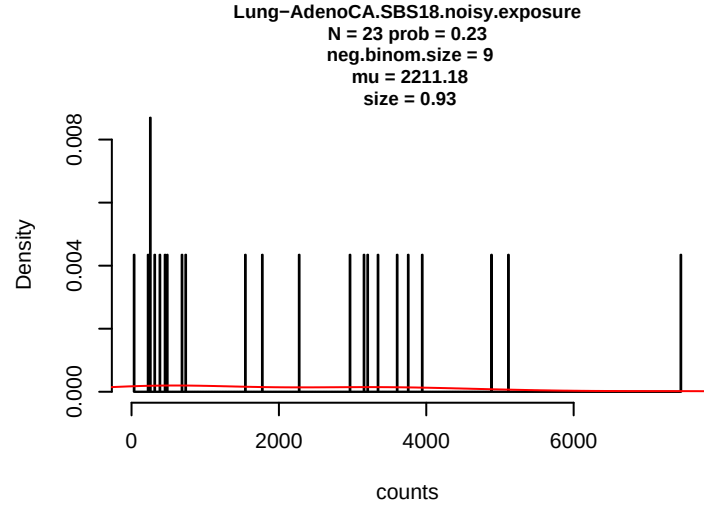

Lung−AdenoCA.SBS17b.real.exposure
N = 3 prob = 0.0789
mu = 3388.9
size = 2.15
Density
N = 3 Bandwidth = 1442

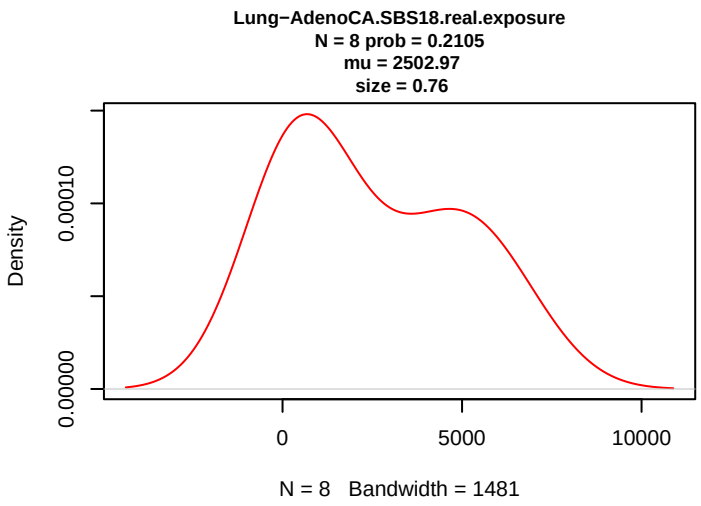

Lung−AdenoCA.SBS17b.synthetic.exposure
N = 8 prob = 0.08
mu = 2571.95
size = 1.53
p−value = 0.836
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test

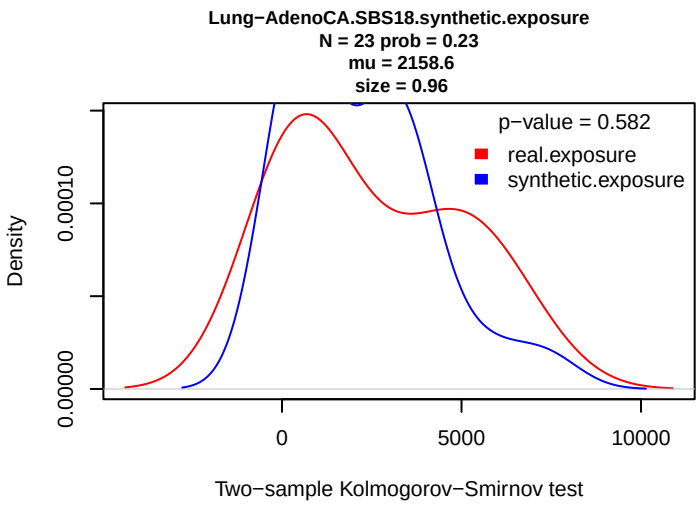

Lung−AdenoCA.SBS17b.noisy.exposure
N = 8 prob = 0.08
neg.binom.size = 9
mu = 2530.02
size = 1.78
p−value = 0.836
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

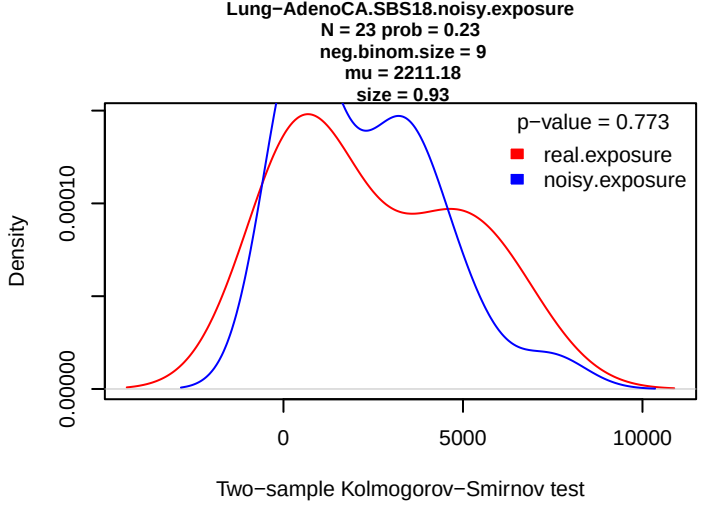

Lung−AdenoCA.SBS18.real.exposure
N = 8 prob = 0.2105
mu = 2502.97
size = 0.76
Density
counts

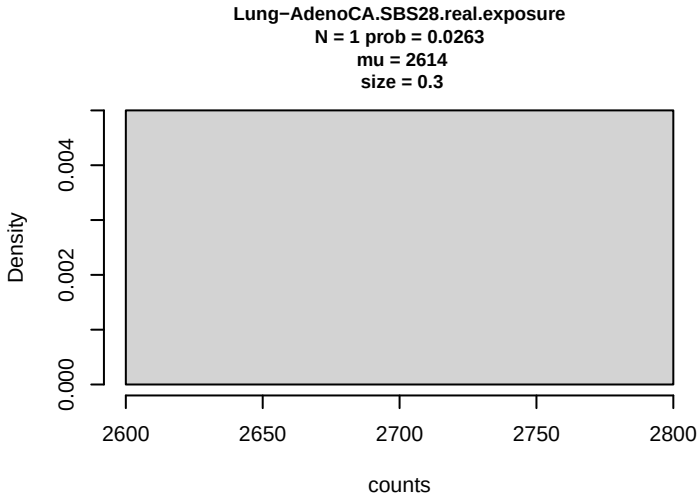

Lung−AdenoCA.SBS18.synthetic.exposure
N = 23 prob = 0.23
mu = 2158.6
size = 0.96
Density
counts

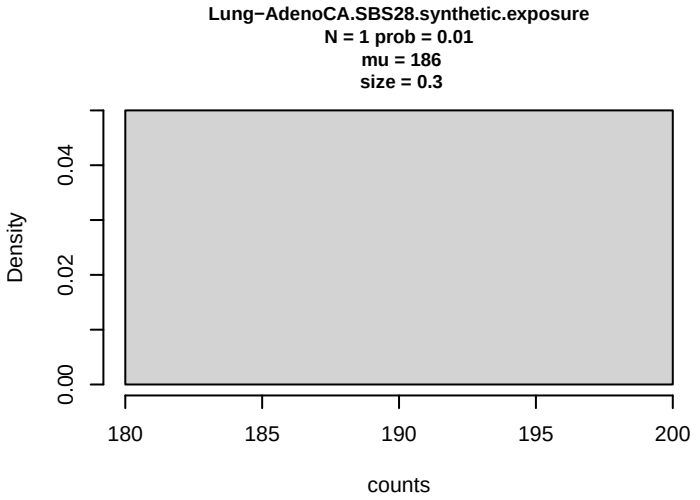

Lung−AdenoCA.SBS18.noisy.exposure
N = 23 prob = 0.23
neg.binom.size = 9
mu = 2211.18
size = 0.93
Density
counts

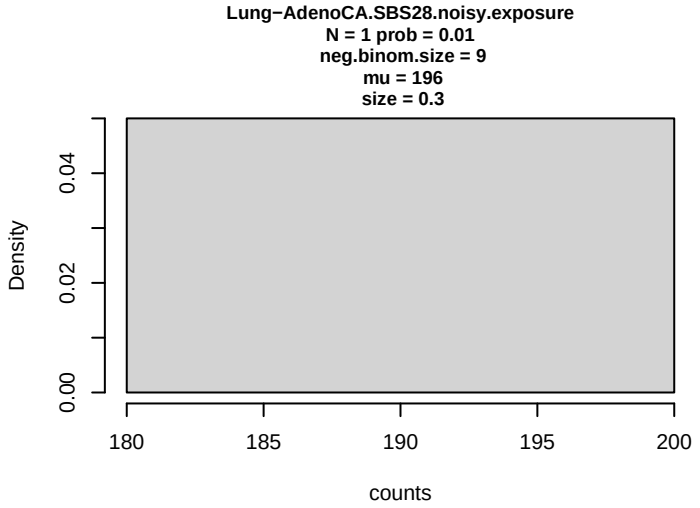

Lung−AdenoCA.SBS18.real.exposure
N = 8 prob = 0.2105
mu = 2502.97
size = 0.76
Density
0.00000
0.00010
0
5000
10000
N = 8 Bandwidth = 1481

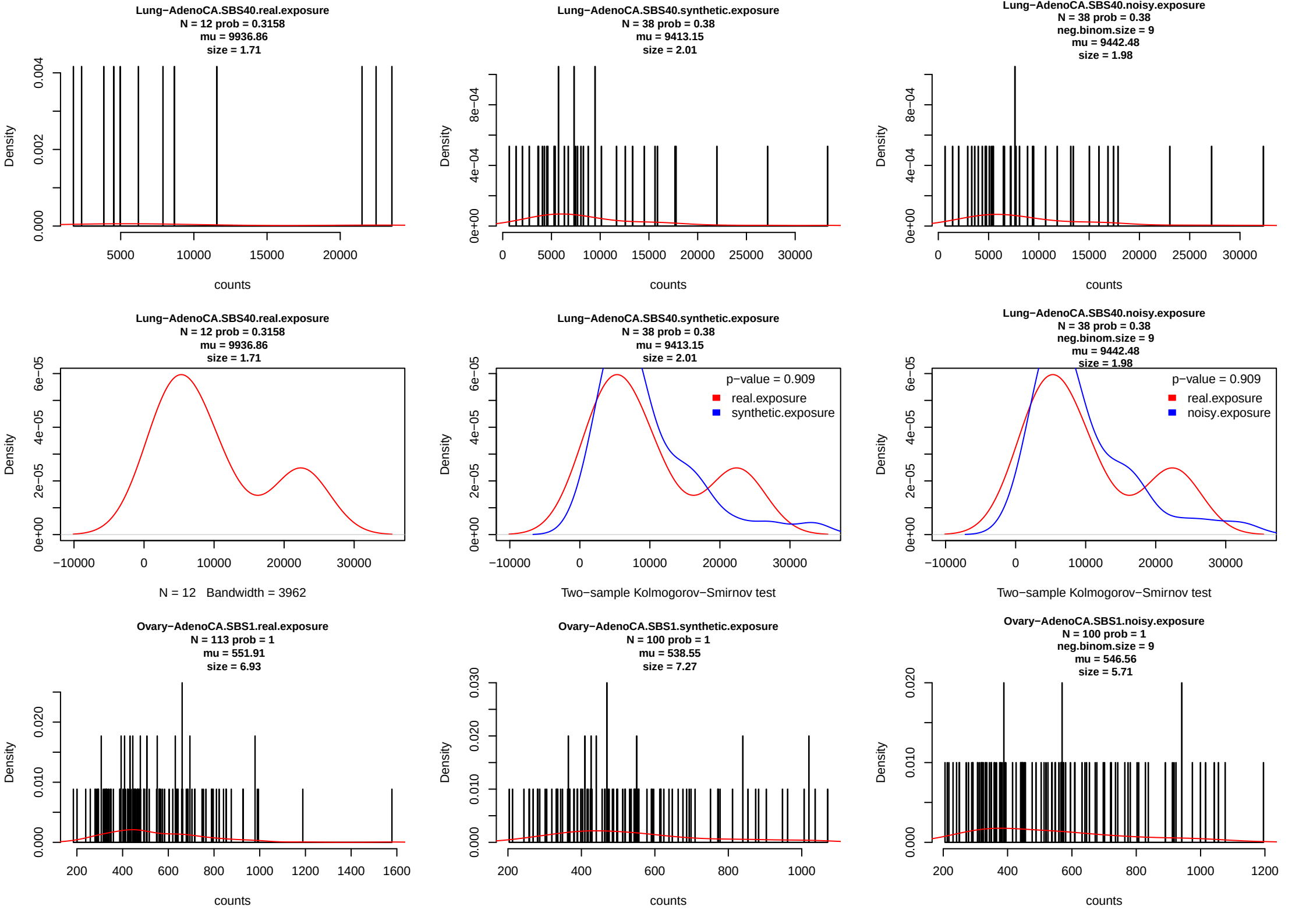

Lung−AdenoCA.SBS18.synthetic.exposure
N = 23 prob = 0.23
mu = 2158.6
size = 0.96
p−value = 0.582
real.exposure
synthetic.exposure
Density
0.00000
0.00010
0
5000
10000
Two−sample Kolmogorov−Smirnov test

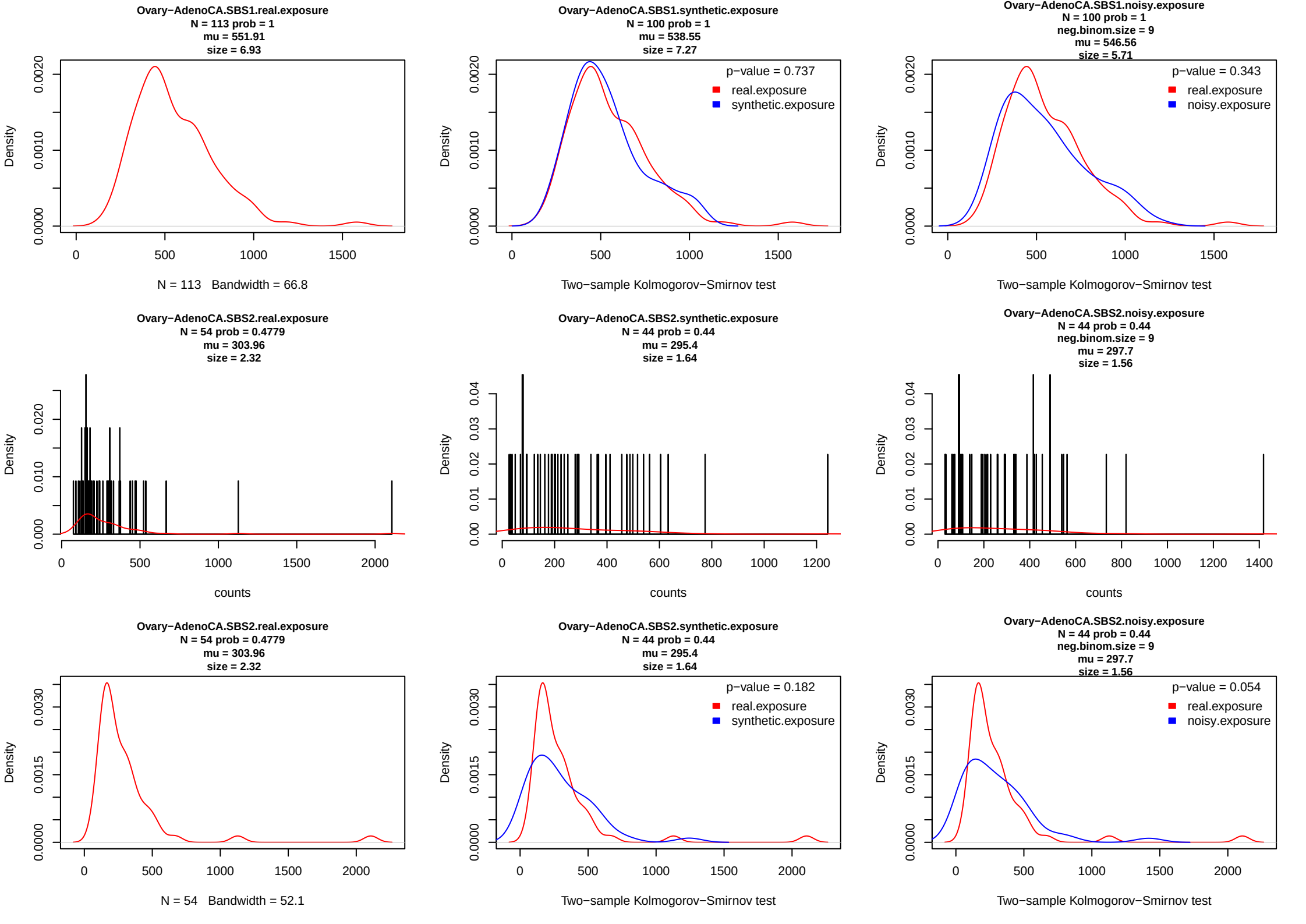

Lung−AdenoCA.SBS18.noisy.exposure
N = 23 prob = 0.23
neg.binom.size = 9
mu = 2211.18
size = 0.93
p−value = 0.773
real.exposure
noisy.exposure
Density
0.00000
0.00010
0
5000
10000
Two−sample Kolmogorov−Smirnov test

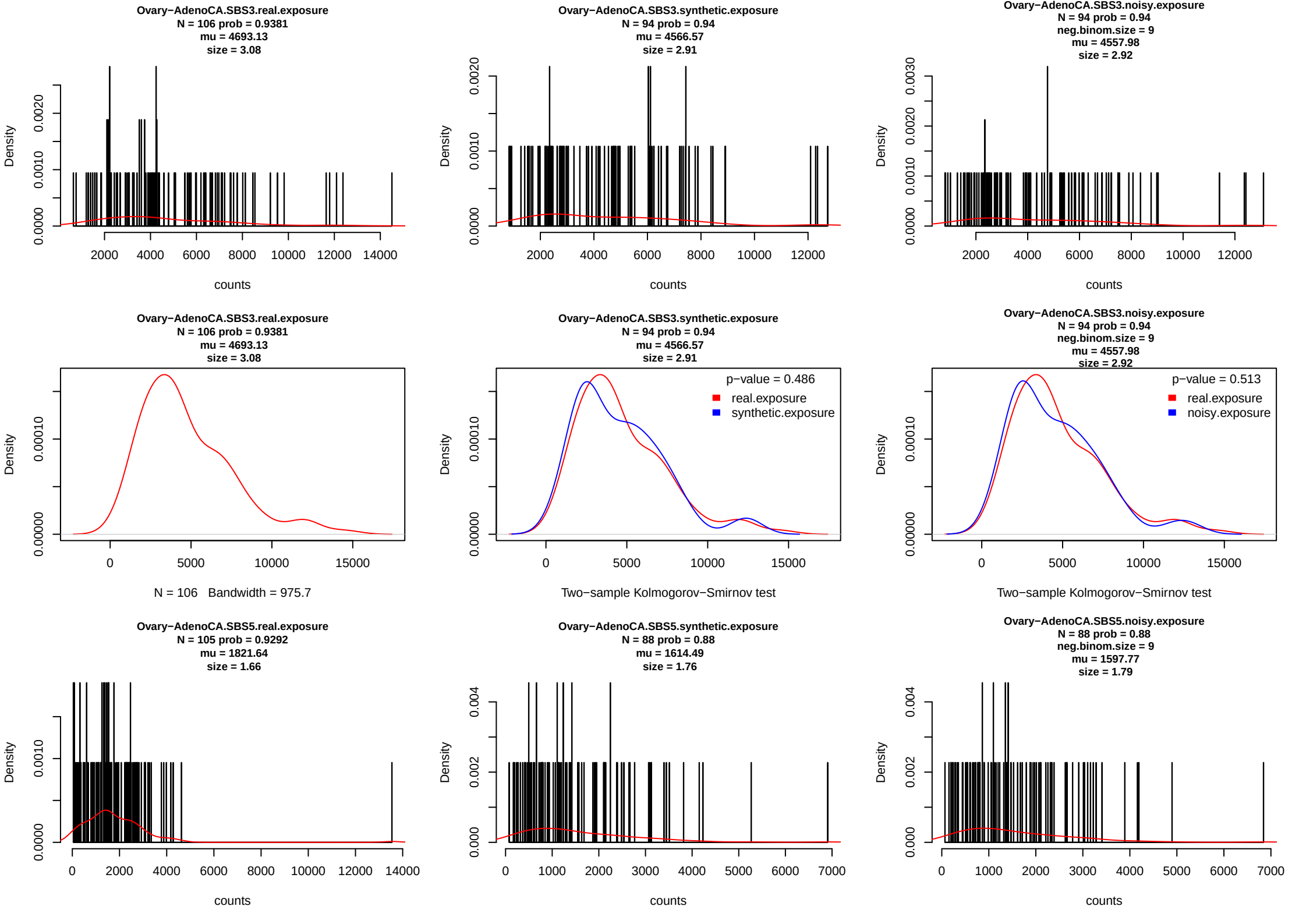

Lung−AdenoCA.SBS28.real.exposure
N = 1 prob = 0.0263
mu = 2614
size = 0.3
Density
0.000
0.002
0.004
2600
2650
2700
2750
2800
counts

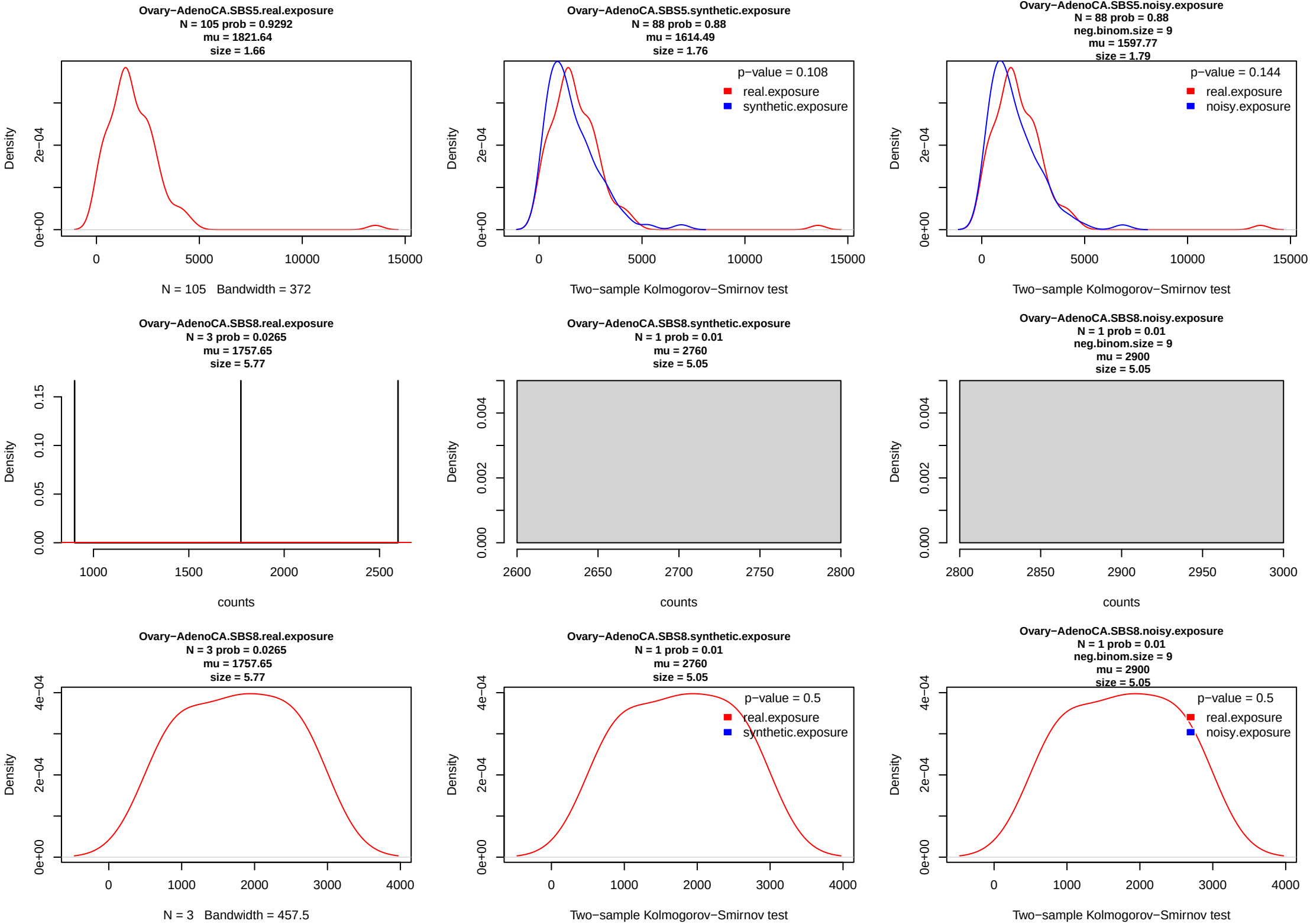

Lung−AdenoCA.SBS28.synthetic.exposure
N = 1 prob = 0.01
mu = 186
size = 0.3
Density
0.00
0.02
0.04
180
185
190
195
200
counts

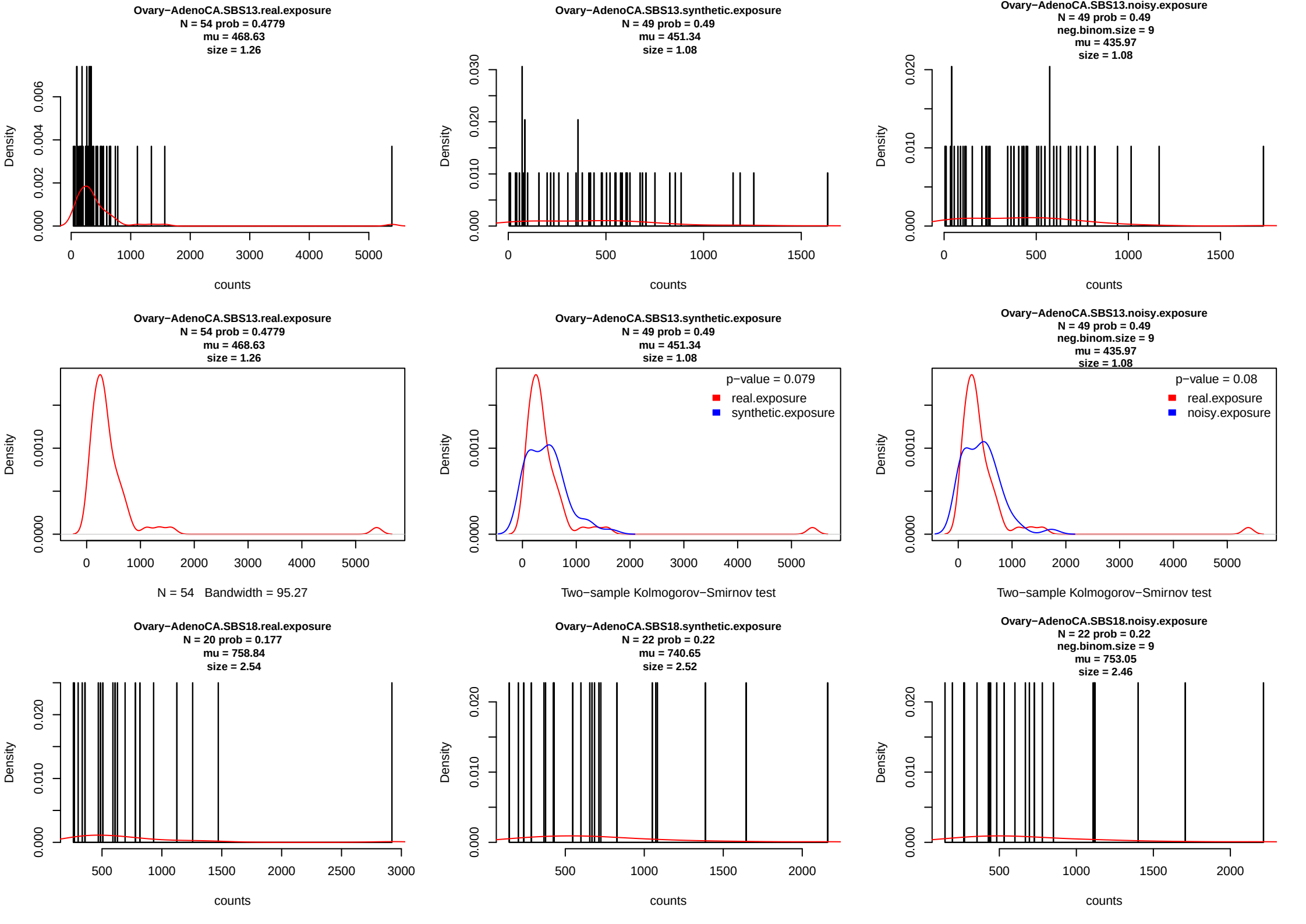

Lung−AdenoCA.SBS28.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 196
size = 0.3
Density
0.00
0.02
0.04
180
185
190
195
200
counts

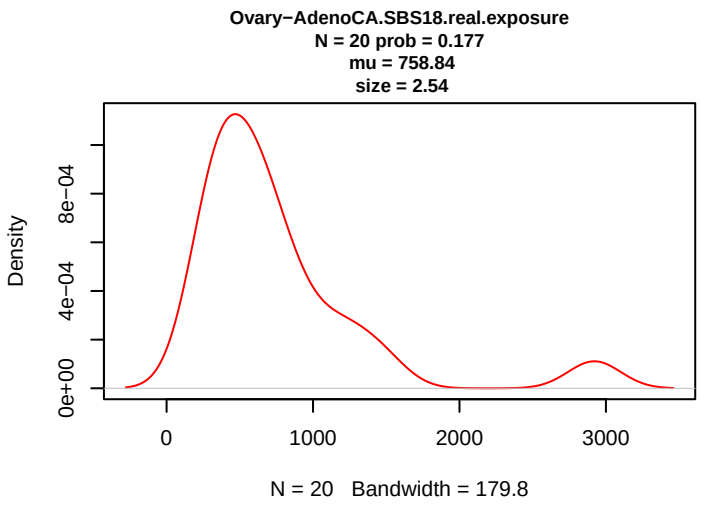

Lung−AdenoCA.SBS40.real.exposure
N = 12 prob = 0.3158
mu = 9936.86
size = 1.71
Lung−AdenoCA.SBS40.synthetic.exposure
N = 38 prob = 0.38
mu = 9413.15
size = 2.01
Lung−AdenoCA.SBS40.noisy.exposure
N = 38 prob = 0.38
neg.binom.size = 9
mu = 9442.48
size = 1.98
Density
counts
N = 12 Bandwidth = 3962
p−value = 0.909
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS1.real.exposure
N = 113 prob = 1
mu = 551.91
size = 6.93
Ovary−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 538.55
size = 7.27
Ovary−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 546.56
size = 5.71

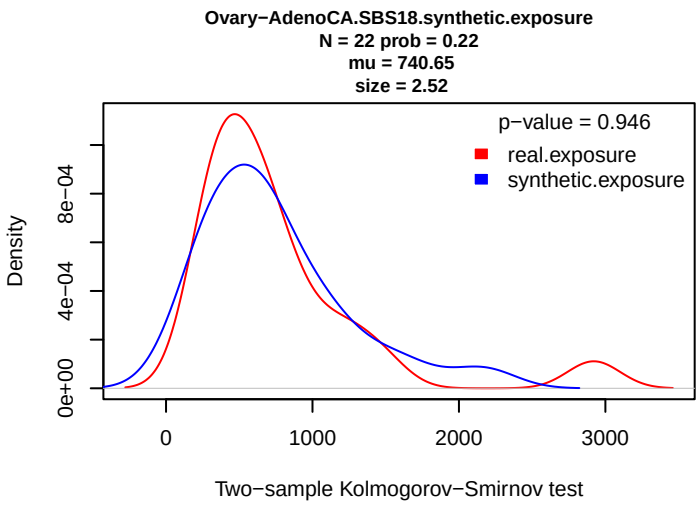

Ovary−AdenoCA.SBS1.real.exposure
N = 113 prob = 1
mu = 551.91
size = 6.93
Density
N = 113 Bandwidth = 66.8
Ovary−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 538.55
size = 7.27
p−value = 0.737
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 546.56
size = 5.71
p−value = 0.343
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS2.real.exposure
N = 54 prob = 0.4779
mu = 303.96
size = 2.32
counts
Ovary−AdenoCA.SBS2.synthetic.exposure
N = 44 prob = 0.44
mu = 295.4
size = 1.64
Ovary−AdenoCA.SBS2.noisy.exposure
N = 44 prob = 0.44
neg.binom.size = 9
mu = 297.7
size = 1.56
Ovary−AdenoCA.SBS2.real.exposure
N = 54 prob = 0.4779
mu = 303.96
size = 2.32
N = 54 Bandwidth = 52.1
Ovary−AdenoCA.SBS2.synthetic.exposure
N = 44 prob = 0.44
mu = 295.4
size = 1.64
p−value = 0.182
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS2.noisy.exposure
N = 44 prob = 0.44
neg.binom.size = 9
mu = 297.7
size = 1.56
p−value = 0.054
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

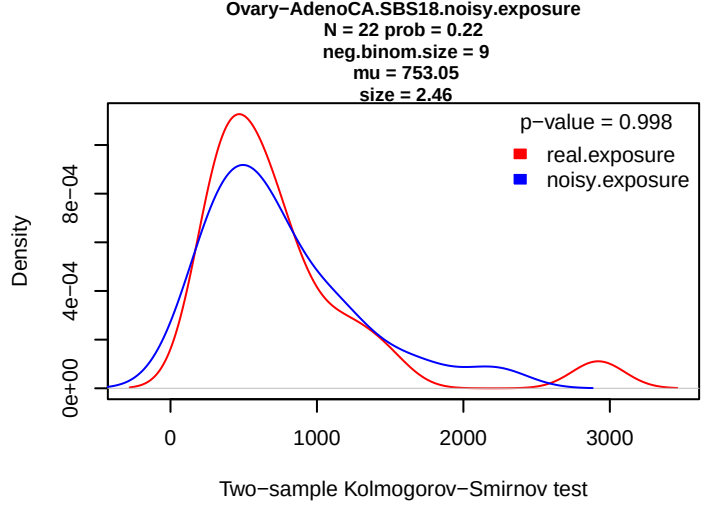

Ovary−AdenoCA.SBS3.real.exposure
N = 106 prob = 0.9381
mu = 4693.13
size = 3.08
Ovary−AdenoCA.SBS3.synthetic.exposure
N = 94 prob = 0.94
mu = 4566.57
size = 2.91
Ovary−AdenoCA.SBS3.noisy.exposure
N = 94 prob = 0.94
neg.binom.size = 9
mu = 4557.98
size = 2.92
Density
counts
N = 106 Bandwidth = 975.7
p−value = 0.486
real.exposure
synthetic.exposure
p−value = 0.513
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS5.real.exposure
N = 105 prob = 0.9292
mu = 1821.64
size = 1.66
Ovary−AdenoCA.SBS5.synthetic.exposure
N = 88 prob = 0.88
mu = 1614.49
size = 1.76
Ovary−AdenoCA.SBS5.noisy.exposure
N = 88 prob = 0.88
neg.binom.size = 9
mu = 1597.77
size = 1.79

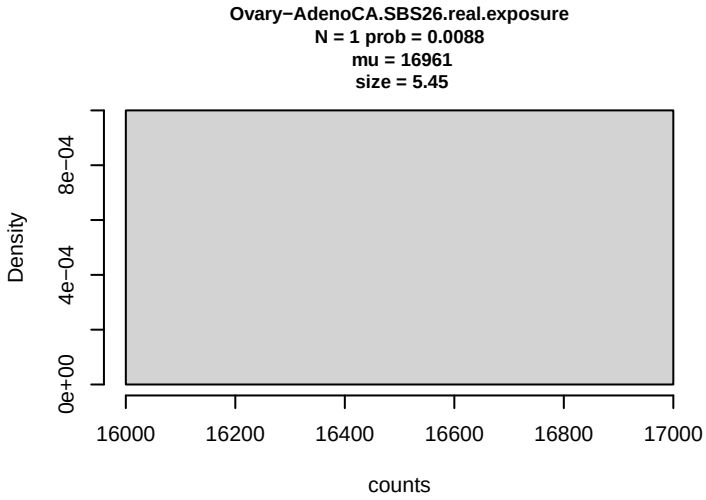

Ovary−AdenoCA.SBS5.real.exposure
N = 105 prob = 0.9292
mu = 1821.64
size = 1.66
Density
N = 105 Bandwidth = 372
Ovary−AdenoCA.SBS5.synthetic.exposure
N = 88 prob = 0.88
mu = 1614.49
size = 1.76
p−value = 0.108
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS5.noisy.exposure
N = 88 prob = 0.88
neg.binom.size = 9
mu = 1597.77
size = 1.79
p−value = 0.144
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS8.real.exposure
N = 3 prob = 0.0265
mu = 1757.65
size = 5.77
counts
Ovary−AdenoCA.SBS8.synthetic.exposure
N = 1 prob = 0.01
mu = 2760
size = 5.05
counts
Ovary−AdenoCA.SBS8.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 2900
size = 5.05
counts
Ovary−AdenoCA.SBS8.real.exposure
N = 3 prob = 0.0265
mu = 1757.65
size = 5.77
N = 3 Bandwidth = 457.5
Ovary−AdenoCA.SBS8.synthetic.exposure
N = 1 prob = 0.01
mu = 2760
size = 5.05
p−value = 0.5
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS8.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 2900
size = 5.05
p−value = 0.5
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

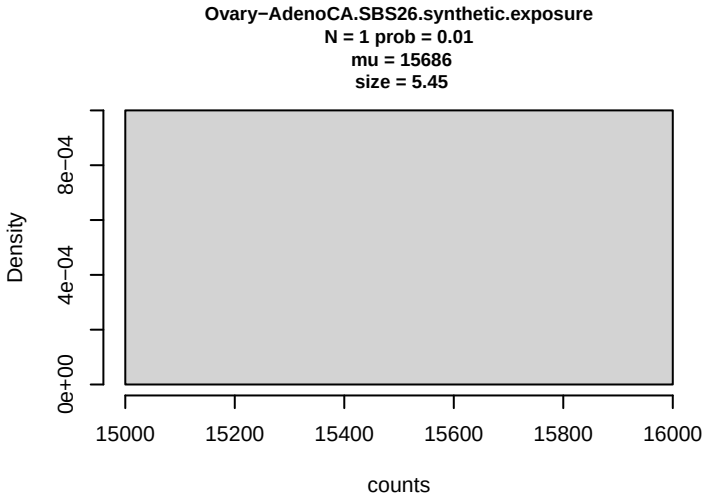

Ovary−AdenoCA.SBS13.real.exposure
N = 54 prob = 0.4779
mu = 468.63
size = 1.26
Ovary−AdenoCA.SBS13.synthetic.exposure
N = 49 prob = 0.49
mu = 451.34
size = 1.08
Ovary−AdenoCA.SBS13.noisy.exposure
N = 49 prob = 0.49
neg.binom.size = 9
mu = 435.97
size = 1.08
Density
counts
N = 54 Bandwidth = 95.27
p−value = 0.079
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.08
noisy.exposure
Ovary−AdenoCA.SBS18.real.exposure
N = 20 prob = 0.177
mu = 758.84
size = 2.54
Ovary−AdenoCA.SBS18.synthetic.exposure
N = 22 prob = 0.22
mu = 740.65
size = 2.52
Ovary−AdenoCA.SBS18.noisy.exposure
N = 22 prob = 0.22
neg.binom.size = 9
mu = 753.05
size = 2.46

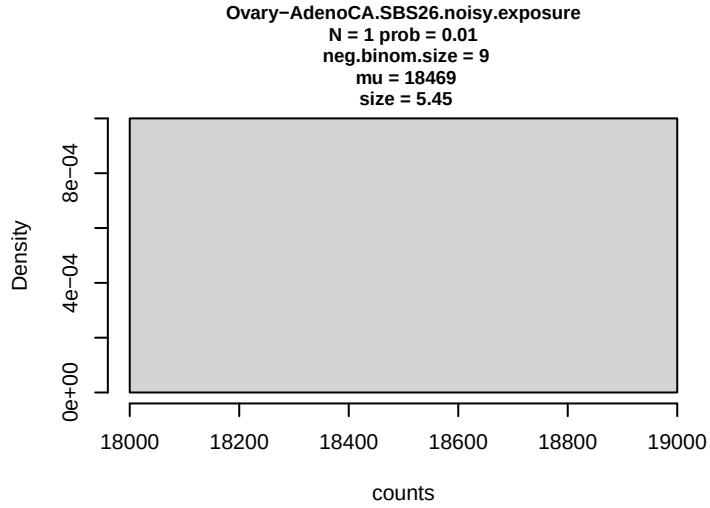

Ovary−AdenoCA.SBS18.real.exposure
N = 20 prob = 0.177
mu = 758.84
size = 2.54
Density
0e+00
4e−04
8e−04
0
1000
2000
3000
N = 20 Bandwidth = 179.8

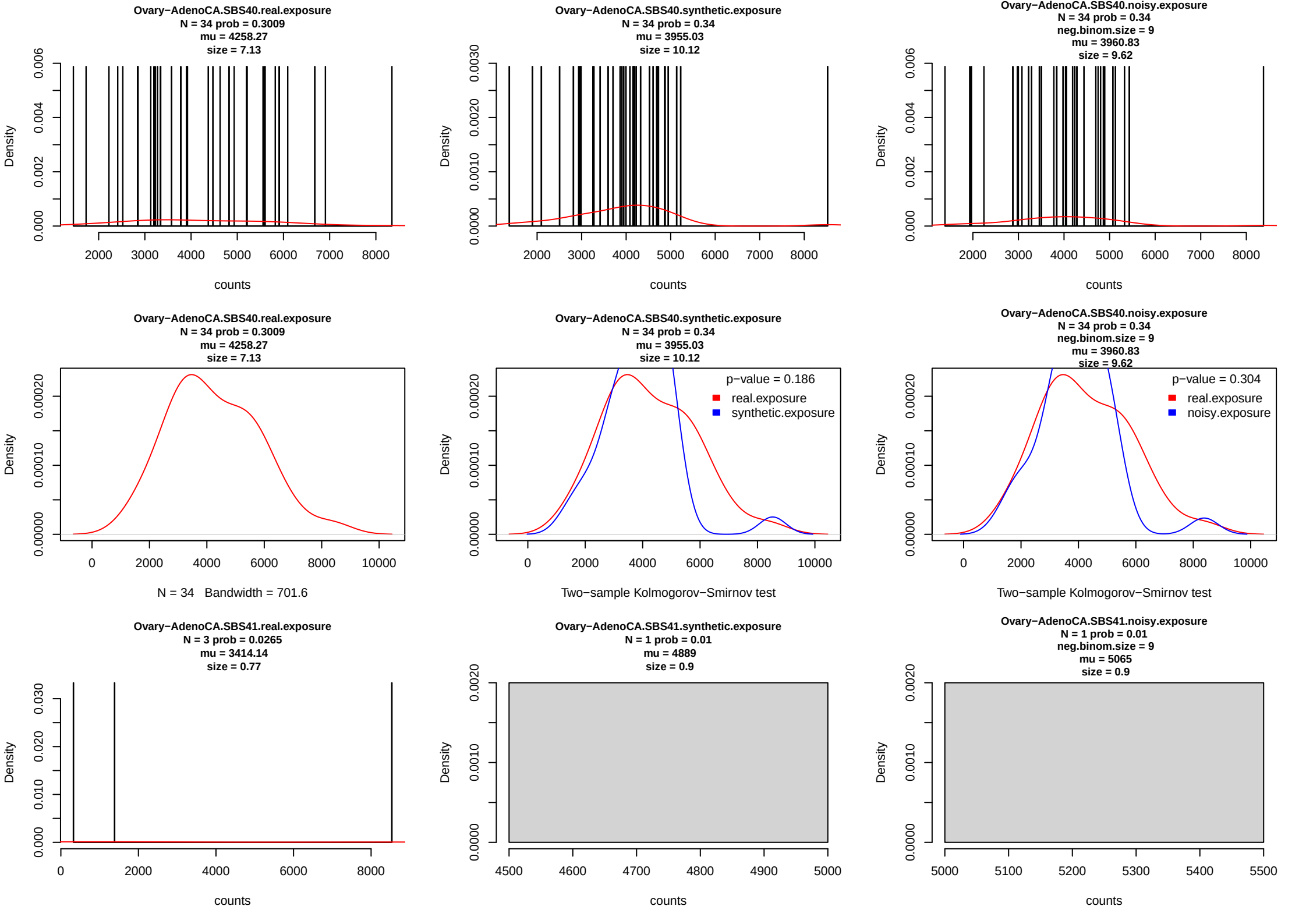

Ovary−AdenoCA.SBS18.synthetic.exposure
N = 22 prob = 0.22
mu = 740.65
size = 2.52
p−value = 0.946
real.exposure
synthetic.exposure
Density
0e+00
4e−04
8e−04
0
1000
2000
3000
Two−sample Kolmogorov−Smirnov test

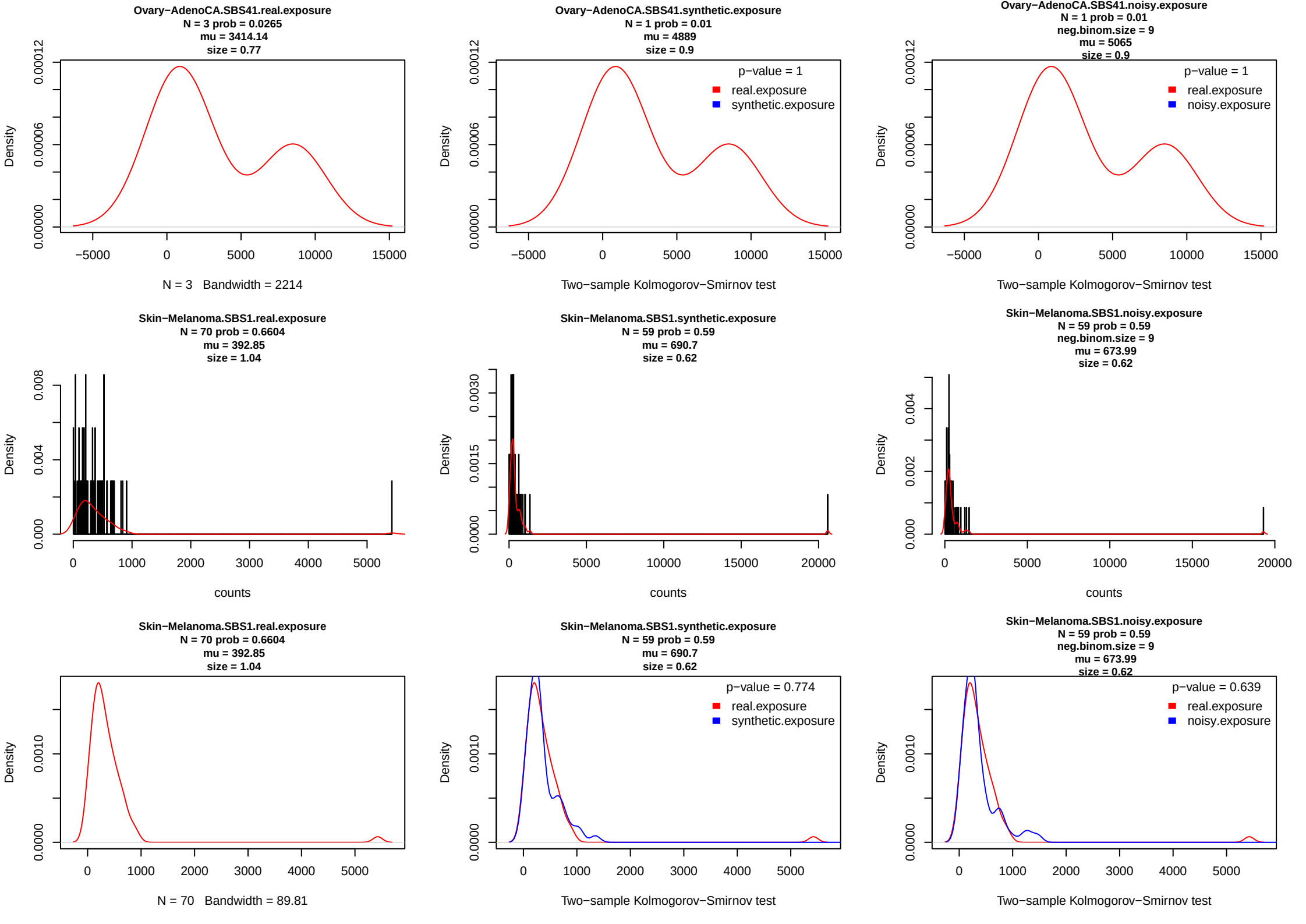

Ovary−AdenoCA.SBS18.noisy.exposure
N = 22 prob = 0.22
neg.binom.size = 9
mu = 753.05
size = 2.46
p−value = 0.998
real.exposure
noisy.exposure
Density
0e+00
4e−04
8e−04
0
1000
2000
3000
Two−sample Kolmogorov−Smirnov test

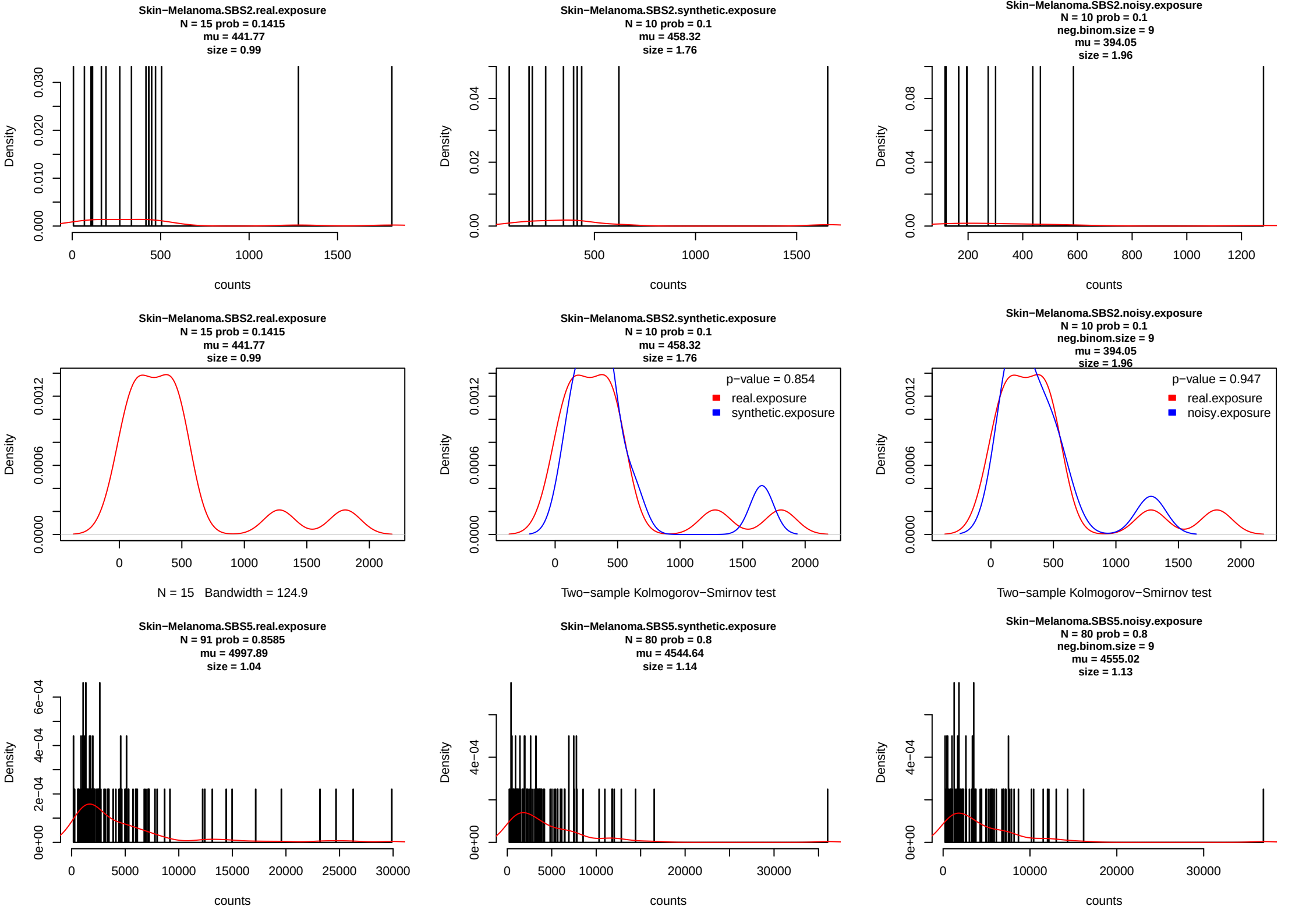

Ovary−AdenoCA.SBS26.real.exposure
N = 1 prob = 0.0088
mu = 16961
size = 5.45
Density
0e+00
4e−04
8e−04
16000
16200
16400
16600
16800
17000
counts

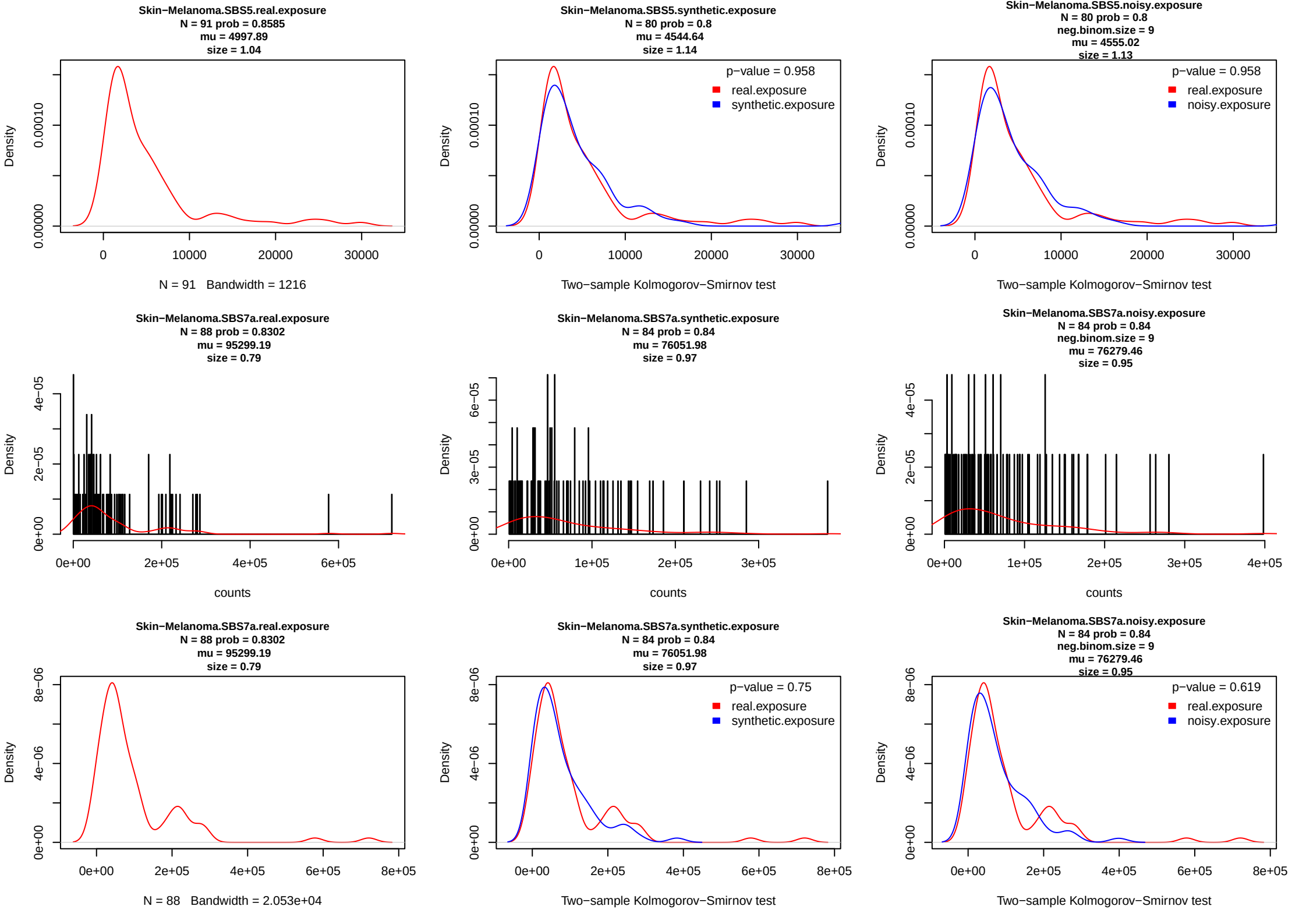

Ovary−AdenoCA.SBS26.synthetic.exposure
N = 1 prob = 0.01
mu = 15686
size = 5.45
Density
0e+00
4e−04
8e−04
15000
15200
15400
15600
15800
16000
counts

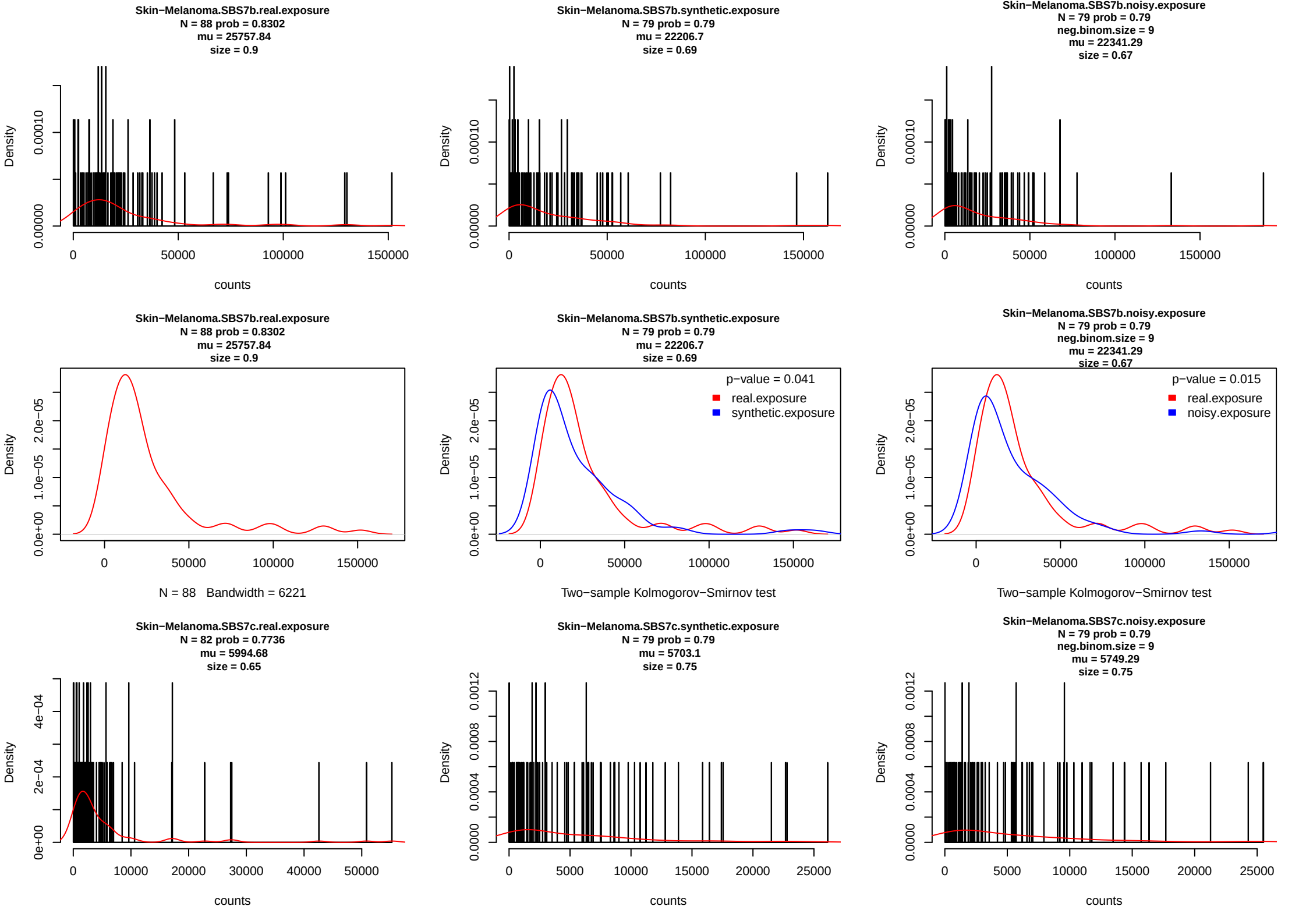

Ovary−AdenoCA.SBS26.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 18469
size = 5.45
Density
0e+00
4e−04
8e−04
18000
18200
18400
18600
18800
19000
counts

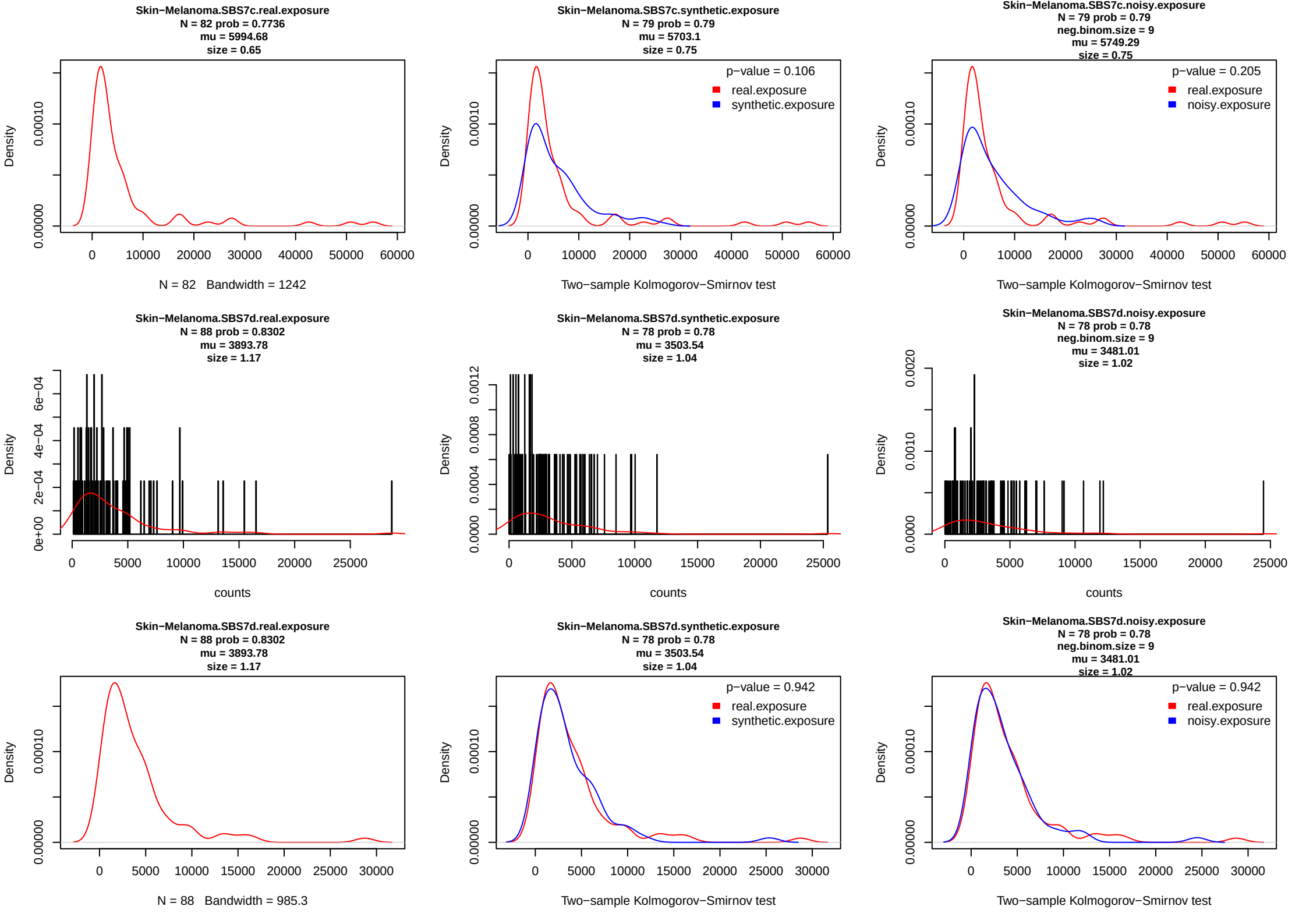

Ovary−AdenoCA.SBS40.real.exposure
N = 34 prob = 0.3009
mu = 4258.27
size = 7.13
Ovary−AdenoCA.SBS40.synthetic.exposure
N = 34 prob = 0.34
mu = 3955.03
size = 10.12
Ovary−AdenoCA.SBS40.noisy.exposure
N = 34 prob = 0.34
neg.binom.size = 9
mu = 3960.83
size = 9.62
Density
counts
N = 34 Bandwidth = 701.6
p−value = 0.186
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.304
noisy.exposure
Ovary−AdenoCA.SBS41.real.exposure
N = 3 prob = 0.0265
mu = 3414.14
size = 0.77
Ovary−AdenoCA.SBS41.synthetic.exposure
N = 1 prob = 0.01
mu = 4889
size = 0.9
Ovary−AdenoCA.SBS41.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 5065
size = 0.9

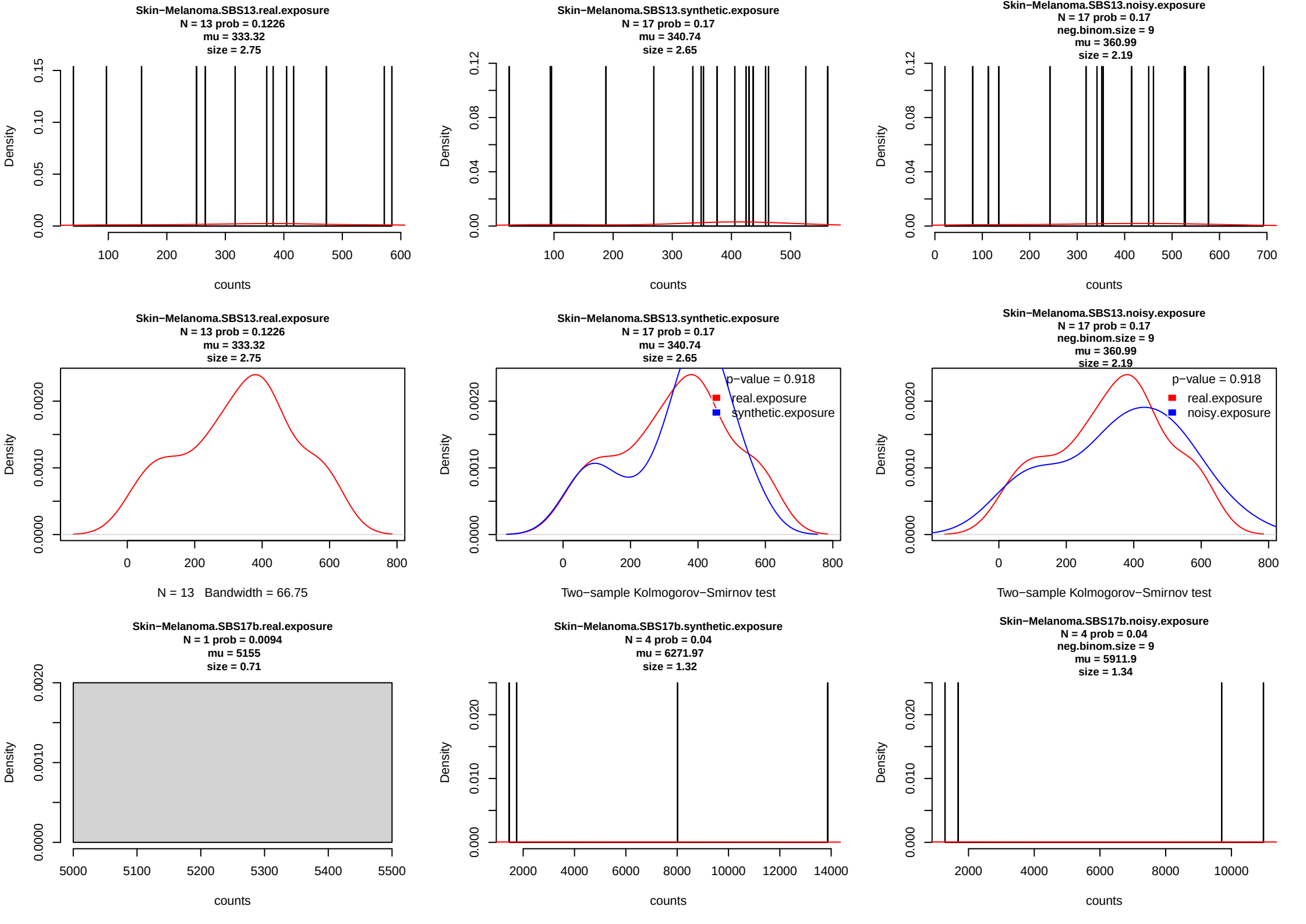

Ovary−AdenoCA.SBS41.real.exposure
N = 3 prob = 0.0265
mu = 3414.14
size = 0.77
Density
N = 3 Bandwidth = 2214
Ovary−AdenoCA.SBS41.synthetic.exposure
N = 1 prob = 0.01
mu = 4889
size = 0.9
p−value = 1
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Ovary−AdenoCA.SBS41.noisy.exposure
N = 1 prob = 0.01
neg.binom.size = 9
mu = 5065
size = 0.9
p−value = 1
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS1.real.exposure
N = 70 prob = 0.6604
mu = 392.85
size = 1.04
counts
Skin−Melanoma.SBS1.synthetic.exposure
N = 59 prob = 0.59
mu = 690.7
size = 0.62
counts
Skin−Melanoma.SBS1.noisy.exposure
N = 59 prob = 0.59
neg.binom.size = 9
mu = 673.99
size = 0.62
counts
Skin−Melanoma.SBS1.real.exposure
N = 70 prob = 0.6604
mu = 392.85
size = 1.04
N = 70 Bandwidth = 89.81
Skin−Melanoma.SBS1.synthetic.exposure
N = 59 prob = 0.59
mu = 690.7
size = 0.62
p−value = 0.774
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS1.noisy.exposure
N = 59 prob = 0.59
neg.binom.size = 9
mu = 673.99
size = 0.62
p−value = 0.639
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

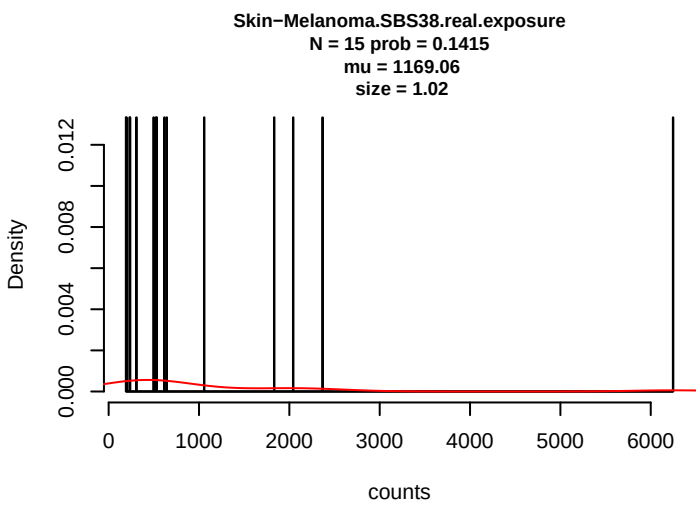

Skin−Melanoma.SBS2.real.exposure
N = 15 prob = 0.1415
mu = 441.77
size = 0.99
Skin−Melanoma.SBS2.synthetic.exposure
N = 10 prob = 0.1
mu = 458.32
size = 1.76
Skin−Melanoma.SBS2.noisy.exposure
N = 10 prob = 0.1
neg.binom.size = 9
mu = 394.05
size = 1.96
Density
counts
Skin−Melanoma.SBS2.real.exposure
N = 15 prob = 0.1415
mu = 441.77
size = 0.99
N = 15 Bandwidth = 124.9
Skin−Melanoma.SBS2.synthetic.exposure
N = 10 prob = 0.1
mu = 458.32
size = 1.76
p−value = 0.854
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS2.noisy.exposure
N = 10 prob = 0.1
neg.binom.size = 9
mu = 394.05
size = 1.96
p−value = 0.947
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS5.real.exposure
N = 91 prob = 0.8585
mu = 4997.89
size = 1.04
Skin−Melanoma.SBS5.synthetic.exposure
N = 80 prob = 0.8
mu = 4544.64
size = 1.14
Skin−Melanoma.SBS5.noisy.exposure
N = 80 prob = 0.8
neg.binom.size = 9
mu = 4555.02
size = 1.13

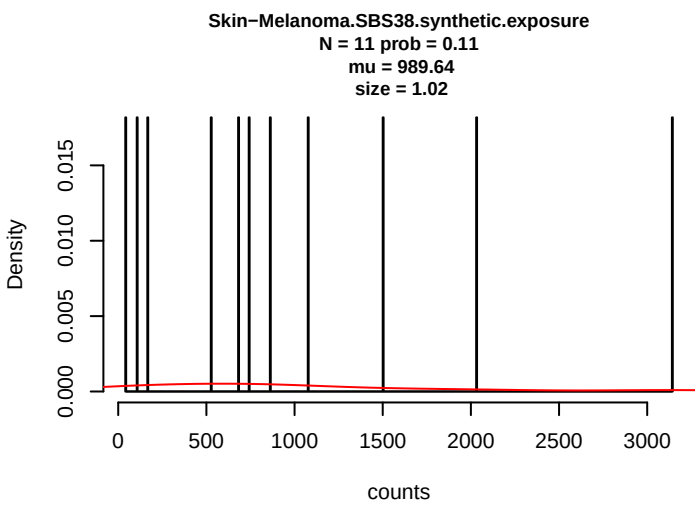

Skin−Melanoma.SBS5.real.exposure
N = 91 prob = 0.8585
mu = 4997.89
size = 1.04
Density
N = 91 Bandwidth = 1216
Skin−Melanoma.SBS5.synthetic.exposure
N = 80 prob = 0.8
mu = 4544.64
size = 1.14
p−value = 0.958
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS5.noisy.exposure
N = 80 prob = 0.8
neg.binom.size = 9
mu = 4555.02
size = 1.13
p−value = 0.958
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS7a.real.exposure
N = 88 prob = 0.8302
mu = 95299.19
size = 0.79
counts
Skin−Melanoma.SBS7a.synthetic.exposure
N = 84 prob = 0.84
mu = 76051.98
size = 0.97
counts
Skin−Melanoma.SBS7a.noisy.exposure
N = 84 prob = 0.84
neg.binom.size = 9
mu = 76279.46
size = 0.95
counts
Skin−Melanoma.SBS7a.real.exposure
N = 88 prob = 0.8302
mu = 95299.19
size = 0.79
N = 88 Bandwidth = 2.053e+04
Skin−Melanoma.SBS7a.synthetic.exposure
N = 84 prob = 0.84
mu = 76051.98
size = 0.97
p−value = 0.75
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS7a.noisy.exposure
N = 84 prob = 0.84
neg.binom.size = 9
mu = 76279.46
size = 0.95
p−value = 0.619
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

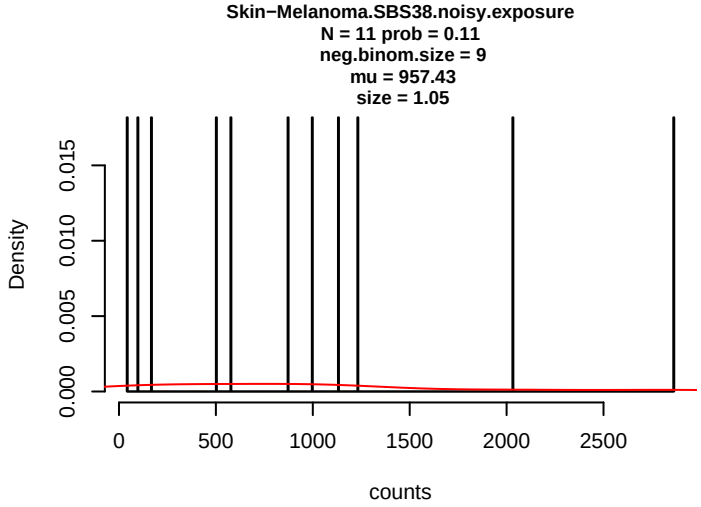

Skin−Melanoma.SBS7b.real.exposure
N = 88 prob = 0.8302
mu = 25757.84
size = 0.9
Skin−Melanoma.SBS7b.synthetic.exposure
N = 79 prob = 0.79
mu = 22206.7
size = 0.69
Skin−Melanoma.SBS7b.noisy.exposure
N = 79 prob = 0.79
neg.binom.size = 9
mu = 22341.29
size = 0.67
Density
counts
N = 88 Bandwidth = 6221
p−value = 0.041
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.015
real.exposure
noisy.exposure
Skin−Melanoma.SBS7c.real.exposure
N = 82 prob = 0.7736
mu = 5994.68
size = 0.65
Skin−Melanoma.SBS7c.synthetic.exposure
N = 79 prob = 0.79
mu = 5703.1
size = 0.75
Skin−Melanoma.SBS7c.noisy.exposure
N = 79 prob = 0.79
neg.binom.size = 9
mu = 5749.29
size = 0.75

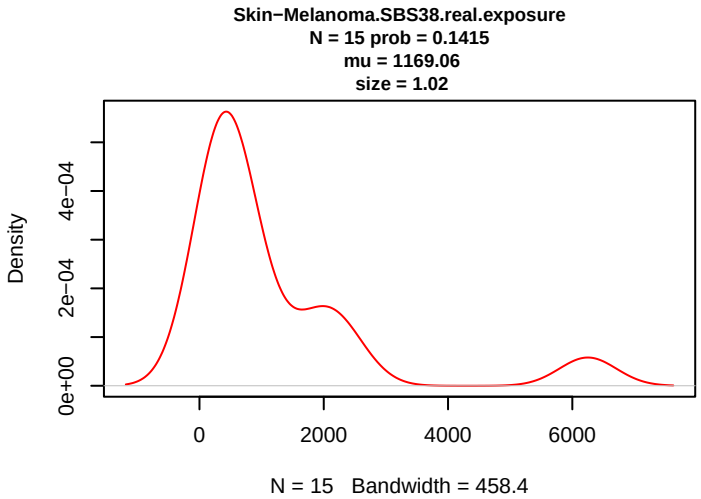

Skin−Melanoma.SBS7c.real.exposure
N = 82 prob = 0.7736
mu = 5994.68
size = 0.65
Density
N = 82 Bandwidth = 1242
Skin−Melanoma.SBS7c.synthetic.exposure
N = 79 prob = 0.79
mu = 5703.1
size = 0.75
p−value = 0.106
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS7c.noisy.exposure
N = 79 prob = 0.79
neg.binom.size = 9
mu = 5749.29
size = 0.75
p−value = 0.205
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS7d.real.exposure
N = 88 prob = 0.8302
mu = 3893.78
size = 1.17
counts
Skin−Melanoma.SBS7d.synthetic.exposure
N = 78 prob = 0.78
mu = 3503.54
size = 1.04
counts
Skin−Melanoma.SBS7d.noisy.exposure
N = 78 prob = 0.78
neg.binom.size = 9
mu = 3481.01
size = 1.02
counts
Skin−Melanoma.SBS7d.real.exposure
N = 88 prob = 0.8302
mu = 3893.78
size = 1.17
N = 88 Bandwidth = 985.3
Skin−Melanoma.SBS7d.synthetic.exposure
N = 78 prob = 0.78
mu = 3503.54
size = 1.04
p−value = 0.942
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS7d.noisy.exposure
N = 78 prob = 0.78
neg.binom.size = 9
mu = 3481.01
size = 1.02
p−value = 0.942
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

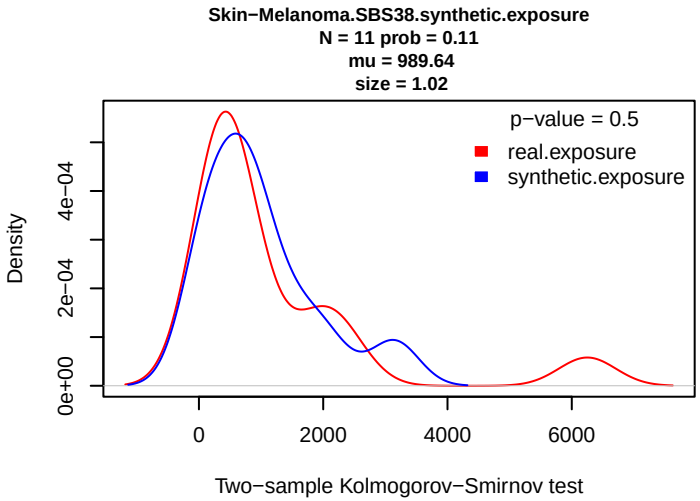

Skin−Melanoma.SBS13.real.exposure
N = 13 prob = 0.1226
mu = 333.32
size = 2.75
Skin−Melanoma.SBS13.synthetic.exposure
N = 17 prob = 0.17
mu = 340.74
size = 2.65
Skin−Melanoma.SBS13.noisy.exposure
N = 17 prob = 0.17
neg.binom.size = 9
mu = 360.99
size = 2.19
Density
counts
N = 13 Bandwidth = 66.75
p−value = 0.918
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Skin−Melanoma.SBS17b.real.exposure
N = 1 prob = 0.0094
mu = 5155
size = 0.71
Skin−Melanoma.SBS17b.synthetic.exposure
N = 4 prob = 0.04
mu = 6271.97
size = 1.32
Skin−Melanoma.SBS17b.noisy.exposure
N = 4 prob = 0.04
neg.binom.size = 9
mu = 5911.9
size = 1.34

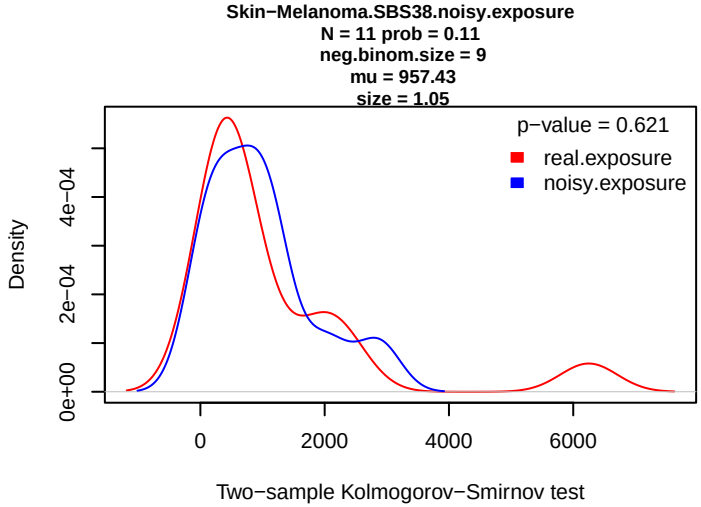

Skin−Melanoma.SBS38.real.exposure
N = 15 prob = 0.1415
mu = 1169.06
size = 1.02
Density
counts

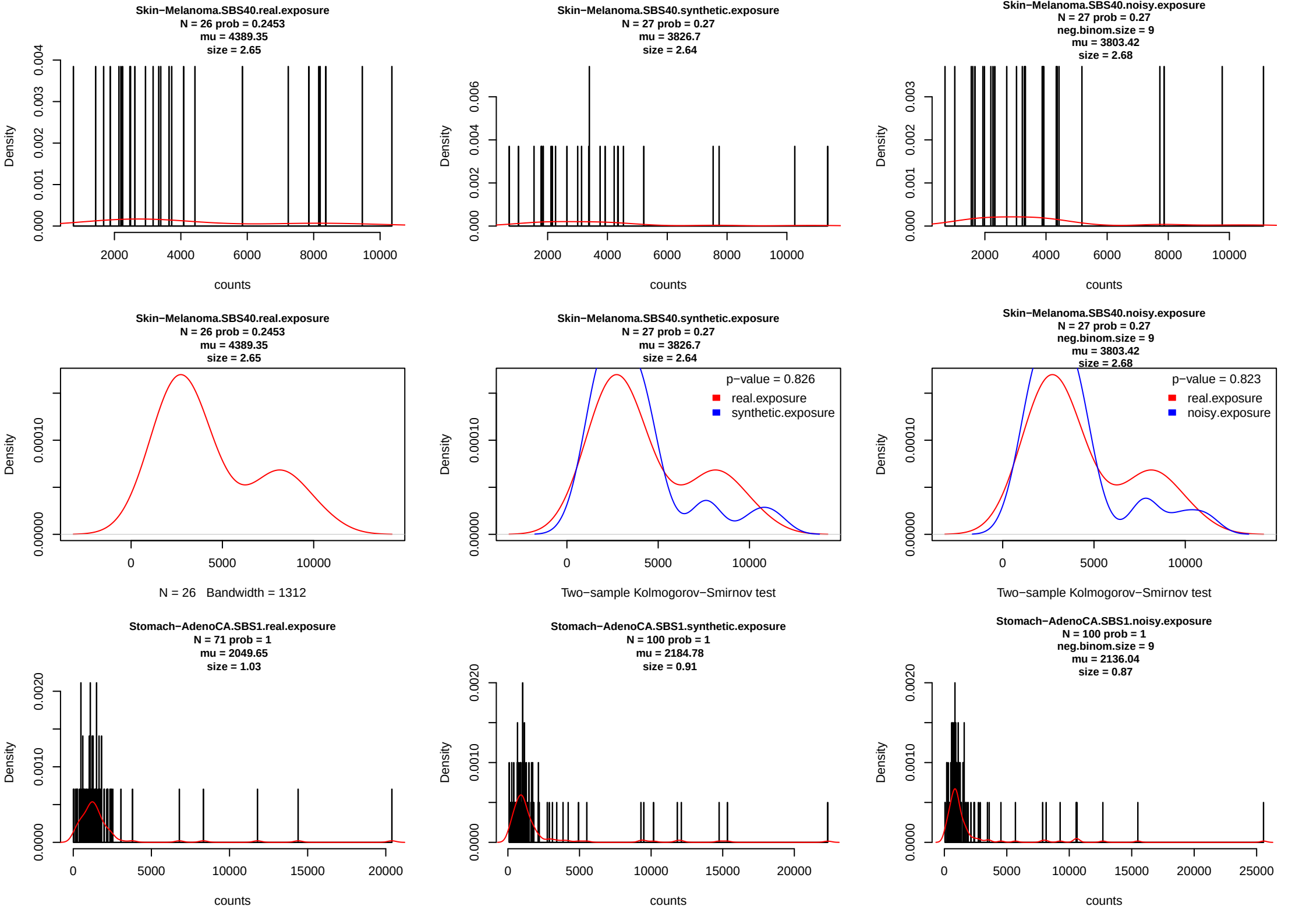

Skin−Melanoma.SBS38.synthetic.exposure
N = 11 prob = 0.11
mu = 989.64
size = 1.02
Density
counts

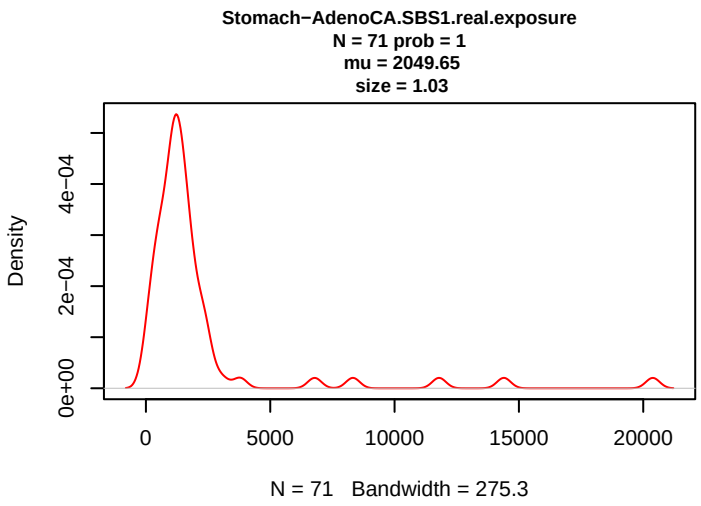

Skin−Melanoma.SBS38.noisy.exposure
N = 11 prob = 0.11
neg.binom.size = 9
mu = 957.43
size = 1.05
Density
counts

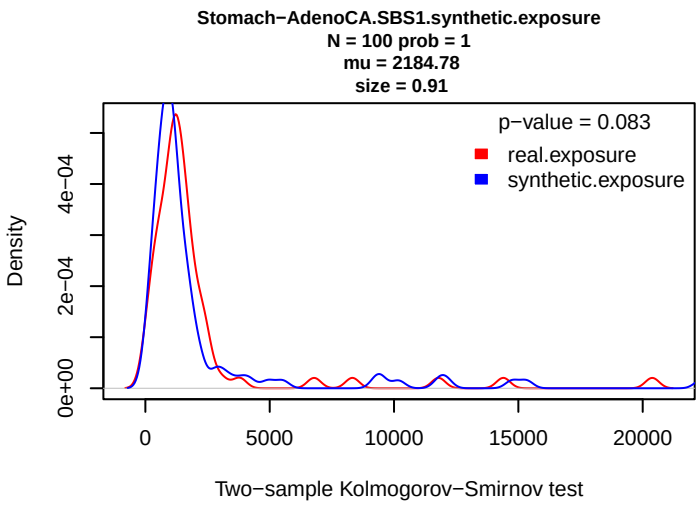

Skin−Melanoma.SBS38.real.exposure
N = 15 prob = 0.1415
mu = 1169.06
size = 1.02
Density
N = 15 Bandwidth = 458.4

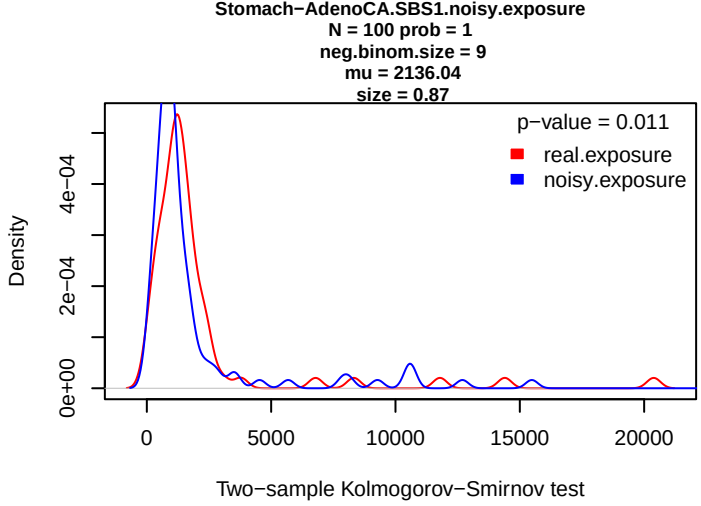

Skin−Melanoma.SBS38.synthetic.exposure
N = 11 prob = 0.11
mu = 989.64
size = 1.02
p−value = 0.5
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test

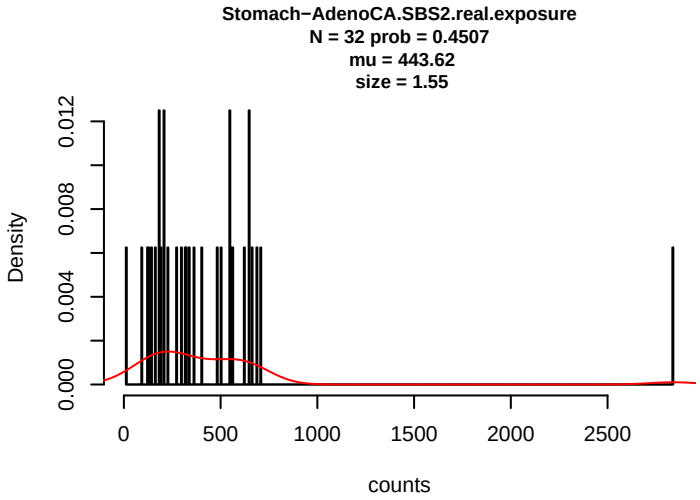

Skin−Melanoma.SBS38.noisy.exposure
N = 11 prob = 0.11
neg.binom.size = 9
mu = 957.43
size = 1.05
p−value = 0.621
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

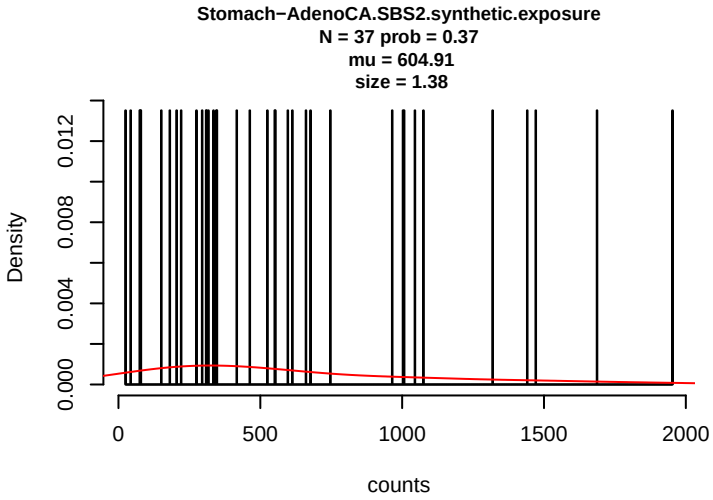

Skin−Melanoma.SBS40.real.exposure
N = 26 prob = 0.2453
mu = 4389.35
size = 2.65
Skin−Melanoma.SBS40.synthetic.exposure
N = 27 prob = 0.27
mu = 3826.7
size = 2.64
Skin−Melanoma.SBS40.noisy.exposure
N = 27 prob = 0.27
neg.binom.size = 9
mu = 3803.42
size = 2.68
Density
counts
N = 26 Bandwidth = 1312
p−value = 0.826
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
p−value = 0.823
noisy.exposure
Stomach−AdenoCA.SBS1.real.exposure
N = 71 prob = 1
mu = 2049.65
size = 1.03
Stomach−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 2184.78
size = 0.91
Stomach−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 2136.04
size = 0.87

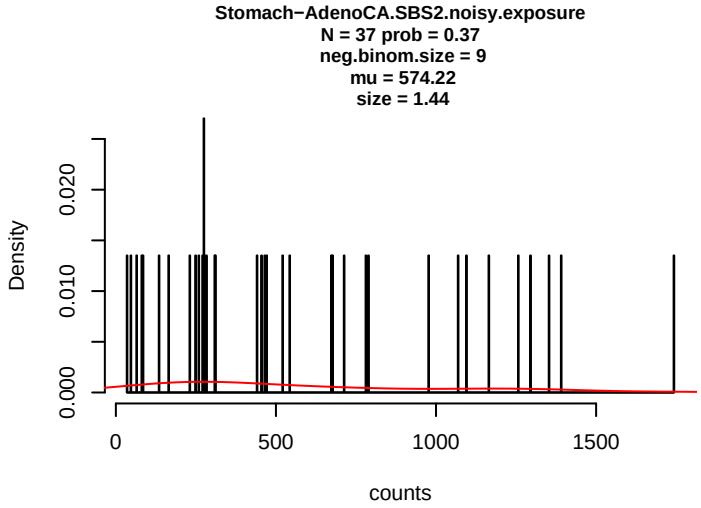

Stomach−AdenoCA.SBS1.real.exposure
N = 71 prob = 1
mu = 2049.65
size = 1.03
Density
0e+00
2e−04
4e−04
0
5000
10000
15000
20000
N = 71 Bandwidth = 275.3

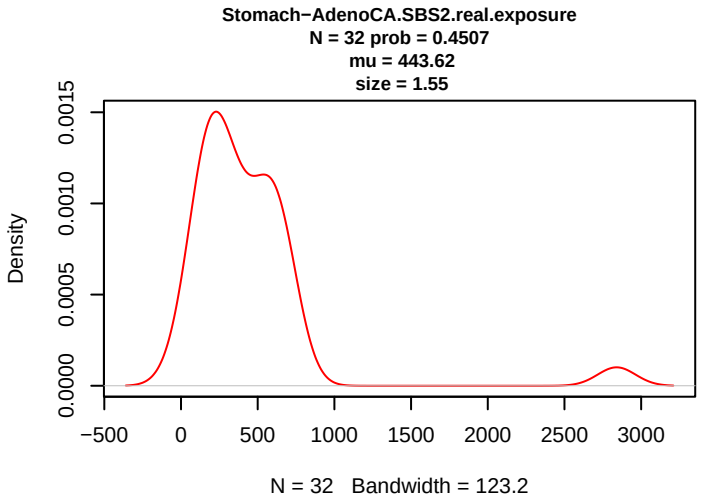

Stomach−AdenoCA.SBS1.synthetic.exposure
N = 100 prob = 1
mu = 2184.78
size = 0.91
p−value = 0.083
real.exposure
synthetic.exposure
Density
0e+00
2e−04
4e−04
0
5000
10000
15000
20000
Two−sample Kolmogorov−Smirnov test

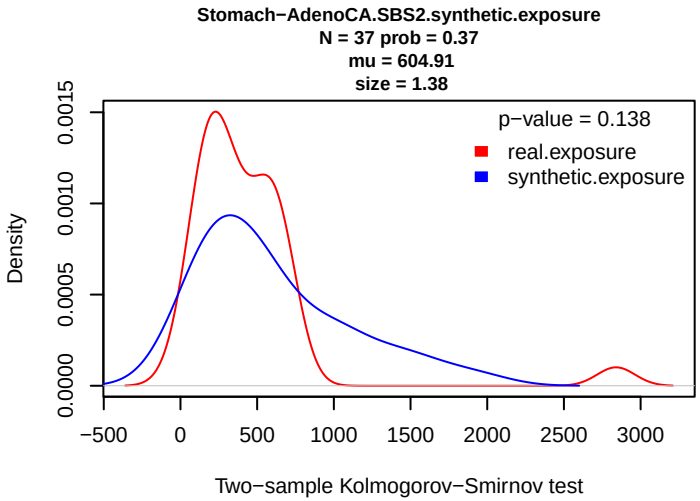

Stomach−AdenoCA.SBS1.noisy.exposure
N = 100 prob = 1
neg.binom.size = 9
mu = 2136.04
size = 0.87
p−value = 0.011
real.exposure
noisy.exposure
Density
0e+00
2e−04
4e−04
0
5000
10000
15000
20000
Two−sample Kolmogorov−Smirnov test

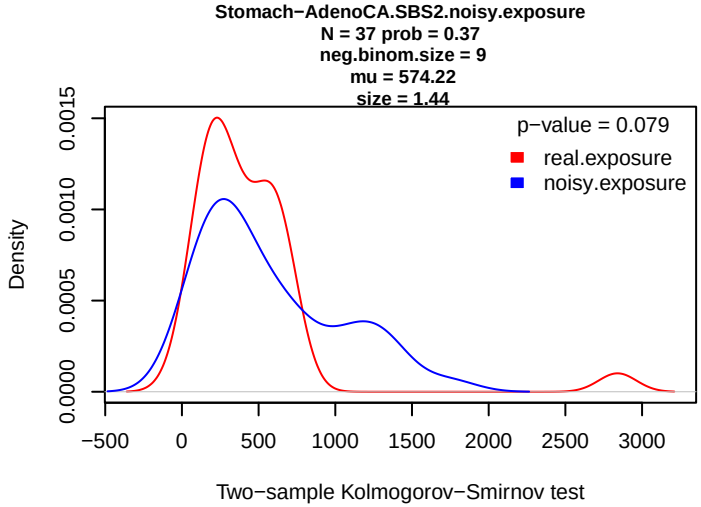

Stomach−AdenoCA.SBS2.real.exposure
N = 32 prob = 0.4507
mu = 443.62
size = 1.55
Density
0.000
0.004
0.008
0.012
0
500
1000
1500
2000
2500
counts

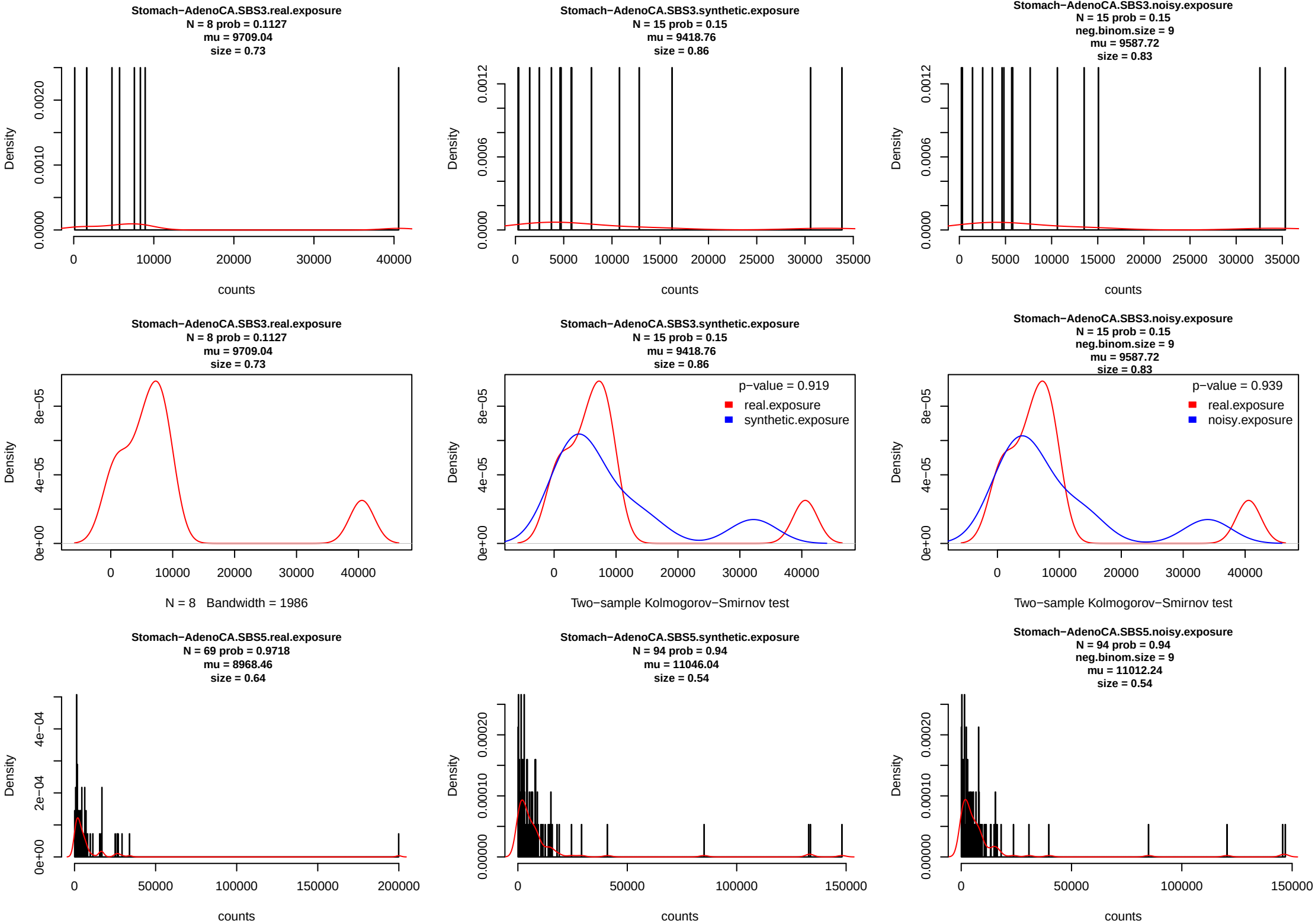

Stomach−AdenoCA.SBS2.synthetic.exposure
N = 37 prob = 0.37
mu = 604.91
size = 1.38
Density
0.000
0.004
0.008
0.012
0
500
1000
1500
2000
counts

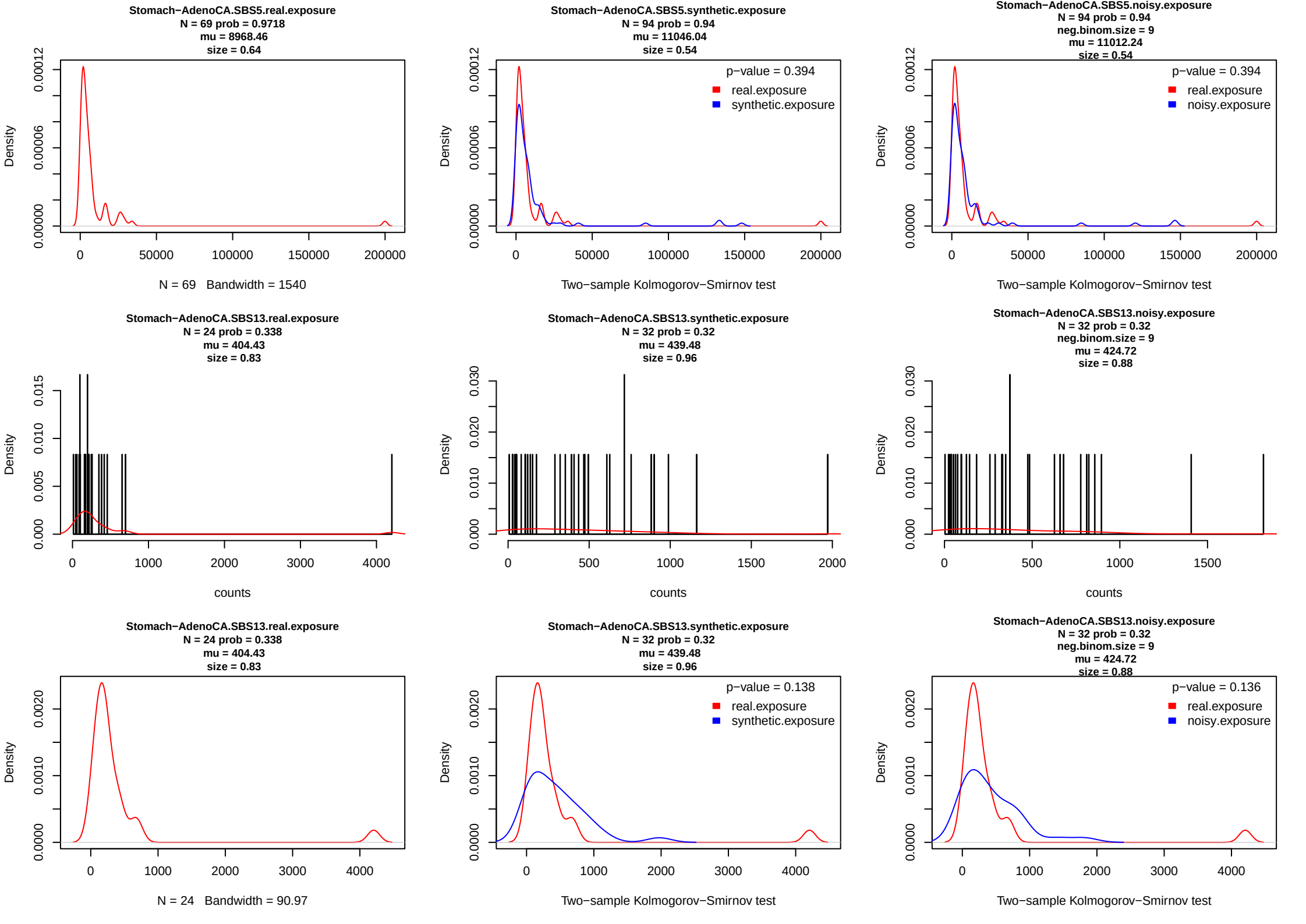

Stomach−AdenoCA.SBS2.noisy.exposure
N = 37 prob = 0.37
neg.binom.size = 9
mu = 574.22
size = 1.44
Density
0.000
0.010
0.020
0
500
1000
1500
counts

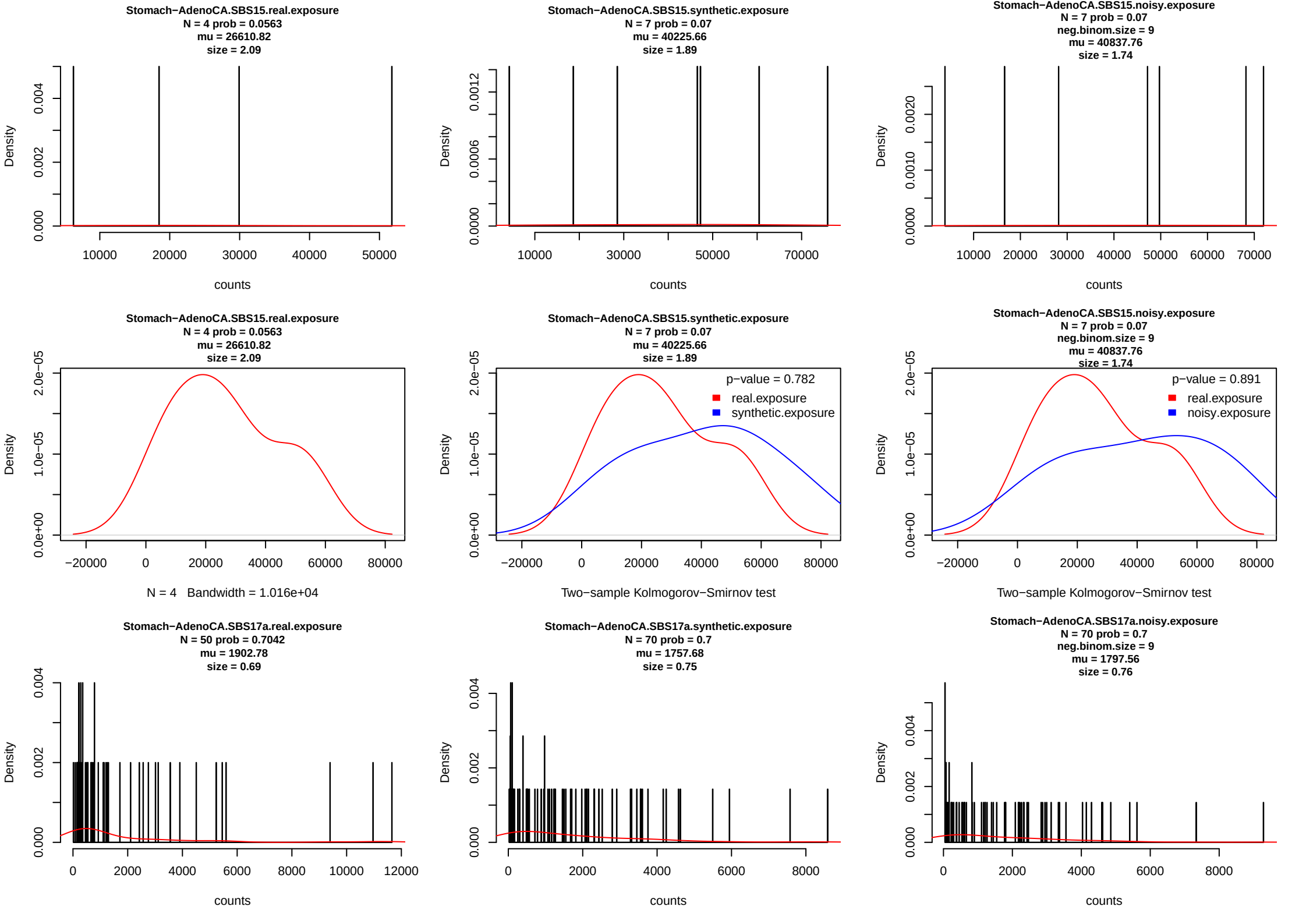

Stomach−AdenoCA.SBS2.real.exposure
N = 32 prob = 0.4507
mu = 443.62
size = 1.55
Density
0.0000
0.0005
0.0010
0.0015
−500
0
500
1000
1500
2000
2500
3000
N = 32 Bandwidth = 123.2

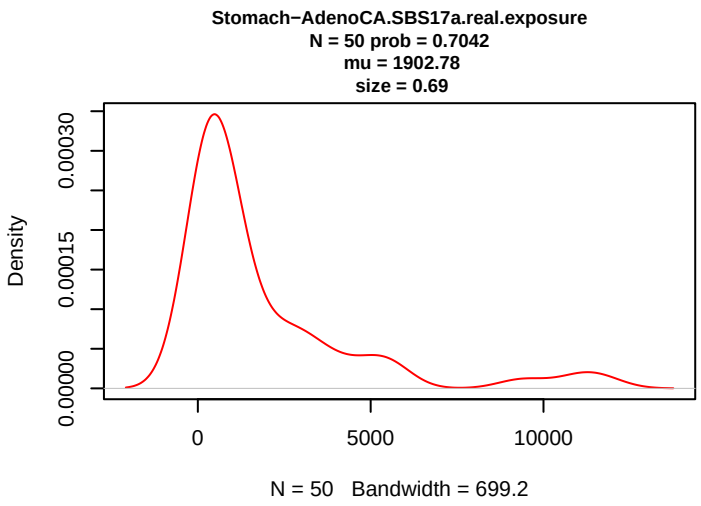

Stomach−AdenoCA.SBS2.synthetic.exposure
N = 37 prob = 0.37
mu = 604.91
size = 1.38
p−value = 0.138
real.exposure
synthetic.exposure
Density
0.0000
0.0005
0.0010
0.0015
−500
0
500
1000
1500
2000
2500
3000
Two−sample Kolmogorov−Smirnov test

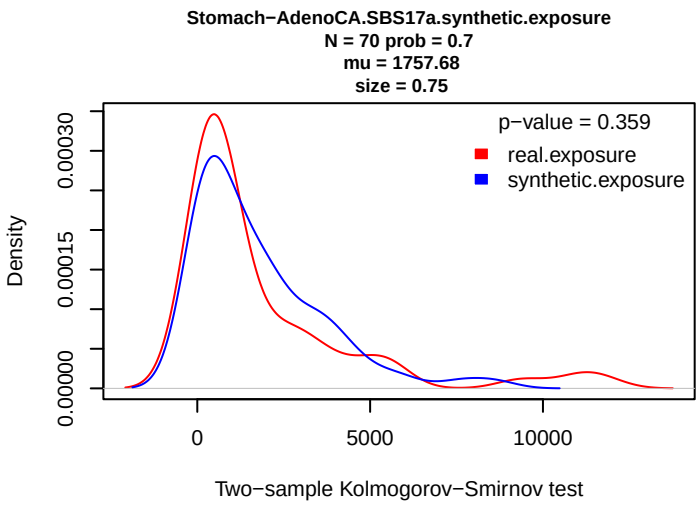

Stomach−AdenoCA.SBS2.noisy.exposure
N = 37 prob = 0.37
neg.binom.size = 9
mu = 574.22
size = 1.44
p−value = 0.079
real.exposure
noisy.exposure
Density
0.0000
0.0005
0.0010
0.0015
−500
0
500
1000
1500
2000
2500
3000
Two−sample Kolmogorov−Smirnov test

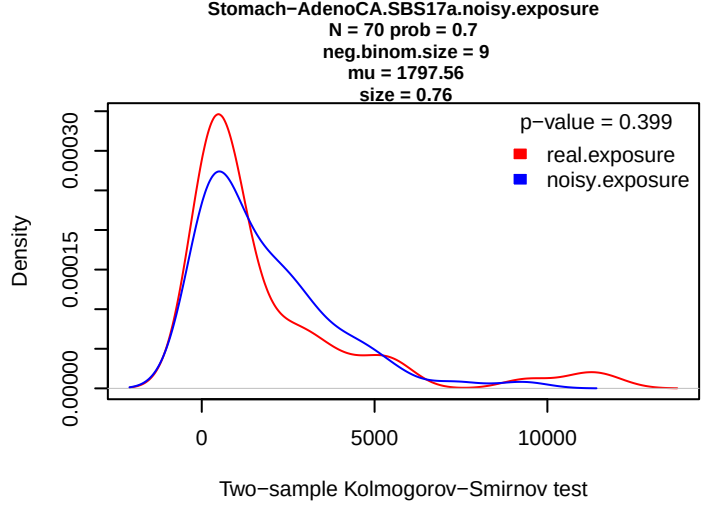

Stomach−AdenoCA.SBS3.real.exposure
N = 8 prob = 0.1127
mu = 9709.04
size = 0.73
Stomach−AdenoCA.SBS3.synthetic.exposure
N = 15 prob = 0.15
mu = 9418.76
size = 0.86
Stomach−AdenoCA.SBS3.noisy.exposure
N = 15 prob = 0.15
neg.binom.size = 9
mu = 9587.72
size = 0.83
Density
counts
Stomach−AdenoCA.SBS3.real.exposure
N = 8 prob = 0.1127
mu = 9709.04
size = 0.73
N = 8 Bandwidth = 1986
Stomach−AdenoCA.SBS3.synthetic.exposure
N = 15 prob = 0.15
mu = 9418.76
size = 0.86
p−value = 0.919
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS3.noisy.exposure
N = 15 prob = 0.15
neg.binom.size = 9
mu = 9587.72
size = 0.83
p−value = 0.939
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS5.real.exposure
N = 69 prob = 0.9718
mu = 8968.46
size = 0.64
Stomach−AdenoCA.SBS5.synthetic.exposure
N = 94 prob = 0.94
mu = 11046.04
size = 0.54
Stomach−AdenoCA.SBS5.noisy.exposure
N = 94 prob = 0.94
neg.binom.size = 9
mu = 11012.24
size = 0.54

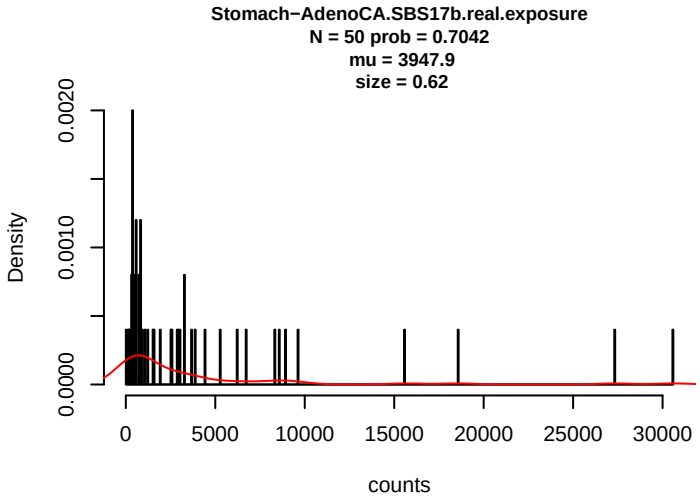

Stomach−AdenoCA.SBS5.real.exposure
N = 69 prob = 0.9718
mu = 8968.46
size = 0.64
Density
N = 69 Bandwidth = 1540
Stomach−AdenoCA.SBS5.synthetic.exposure
N = 94 prob = 0.94
mu = 11046.04
size = 0.54
p−value = 0.394
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS5.noisy.exposure
N = 94 prob = 0.94
neg.binom.size = 9
mu = 11012.24
size = 0.54
p−value = 0.394
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS13.real.exposure
N = 24 prob = 0.338
mu = 404.43
size = 0.83
counts
Stomach−AdenoCA.SBS13.synthetic.exposure
N = 32 prob = 0.32
mu = 439.48
size = 0.96
counts
Stomach−AdenoCA.SBS13.noisy.exposure
N = 32 prob = 0.32
neg.binom.size = 9
mu = 424.72
size = 0.88
counts
Stomach−AdenoCA.SBS13.real.exposure
N = 24 prob = 0.338
mu = 404.43
size = 0.83
N = 24 Bandwidth = 90.97
Stomach−AdenoCA.SBS13.synthetic.exposure
N = 32 prob = 0.32
mu = 439.48
size = 0.96
p−value = 0.138
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS13.noisy.exposure
N = 32 prob = 0.32
neg.binom.size = 9
mu = 424.72
size = 0.88
p−value = 0.136
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

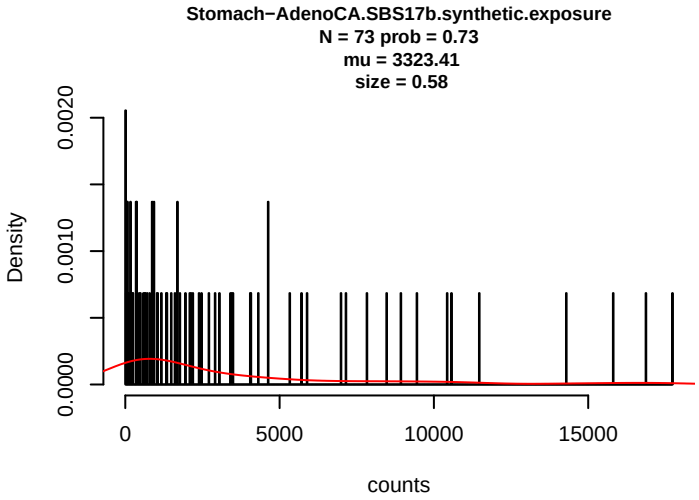

Stomach−AdenoCA.SBS15.real.exposure
N = 4 prob = 0.0563
mu = 26610.82
size = 2.09
Density
counts
Stomach−AdenoCA.SBS15.synthetic.exposure
N = 7 prob = 0.07
mu = 40225.66
size = 1.89
Density
counts
Stomach−AdenoCA.SBS15.noisy.exposure
N = 7 prob = 0.07
neg.binom.size = 9
mu = 40837.76
size = 1.74
Density
counts
Stomach−AdenoCA.SBS15.real.exposure
N = 4 prob = 0.0563
mu = 26610.82
size = 2.09
Density
N = 4 Bandwidth = 1.016e+04
Stomach−AdenoCA.SBS15.synthetic.exposure
N = 7 prob = 0.07
mu = 40225.66
size = 1.89
p−value = 0.782
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS15.noisy.exposure
N = 7 prob = 0.07
neg.binom.size = 9
mu = 40837.76
size = 1.74
p−value = 0.891
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS17a.real.exposure
N = 50 prob = 0.7042
mu = 1902.78
size = 0.69
Density
counts
Stomach−AdenoCA.SBS17a.synthetic.exposure
N = 70 prob = 0.7
mu = 1757.68
size = 0.75
Density
counts
Stomach−AdenoCA.SBS17a.noisy.exposure
N = 70 prob = 0.7
neg.binom.size = 9
mu = 1797.56
size = 0.76
Density
counts

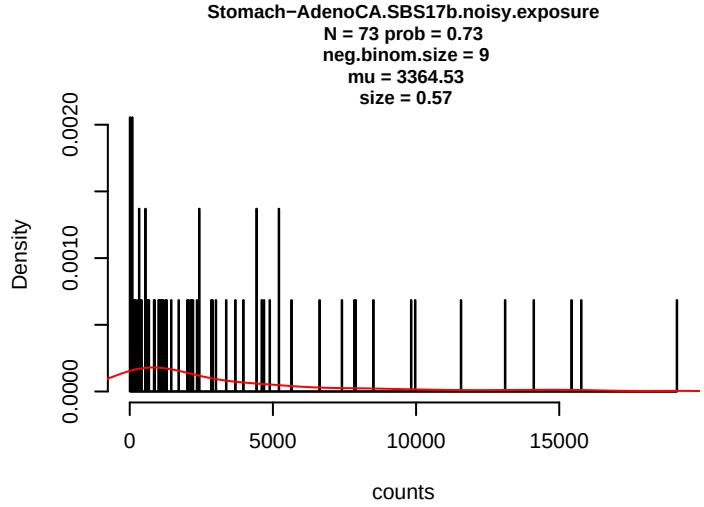

Stomach−AdenoCA.SBS17a.real.exposure
N = 50 prob = 0.7042
mu = 1902.78
size = 0.69
Density
0.00000
0.00015
0.00030
0
5000
10000
N = 50 Bandwidth = 699.2

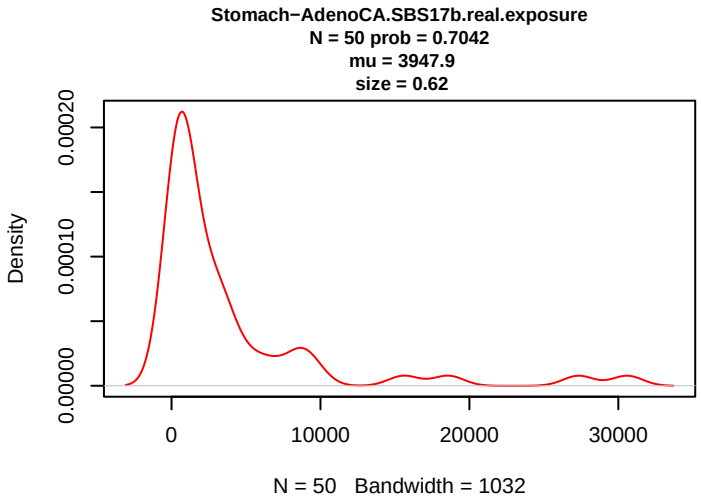

Stomach−AdenoCA.SBS17a.synthetic.exposure
N = 70 prob = 0.7
mu = 1757.68
size = 0.75
p−value = 0.359
real.exposure
synthetic.exposure
Density
0.00000
0.00015
0.00030
0
5000
10000
Two−sample Kolmogorov−Smirnov test

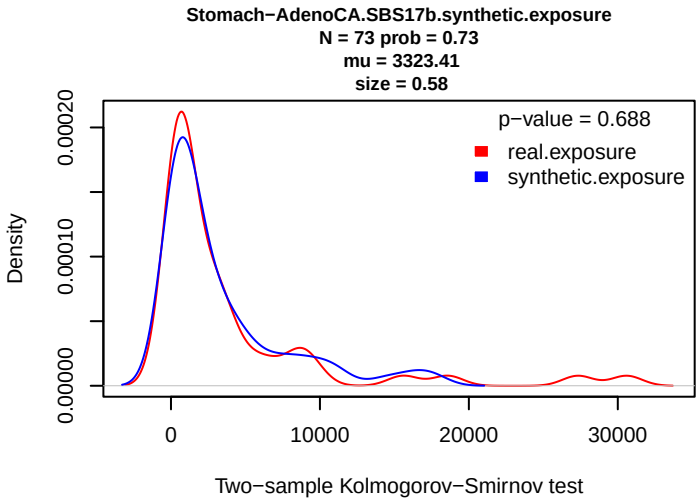

Stomach−AdenoCA.SBS17a.noisy.exposure
N = 70 prob = 0.7
neg.binom.size = 9
mu = 1797.56
size = 0.76
p−value = 0.399
real.exposure
noisy.exposure
Density
0.00000
0.00015
0.00030
0
5000
10000
Two−sample Kolmogorov−Smirnov test

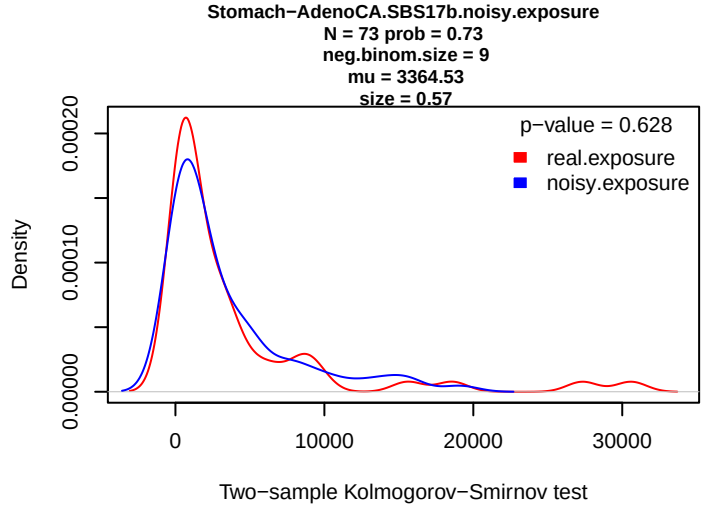

Stomach−AdenoCA.SBS17b.real.exposure
N = 50 prob = 0.7042
mu = 3947.9
size = 0.62
Density
0.0000
0.0010
0.0020
0
5000
10000
15000
20000
25000
30000
counts

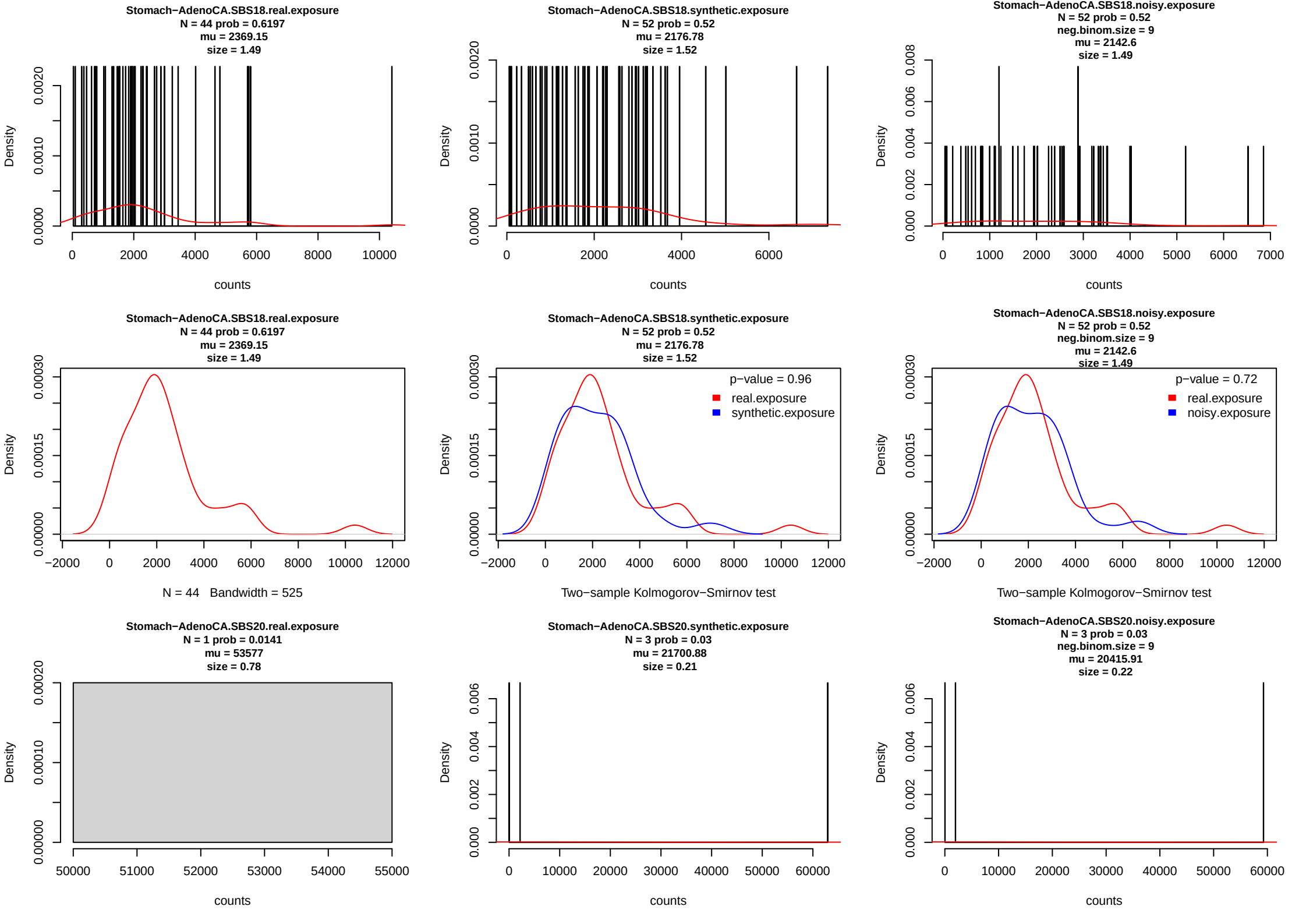

Stomach−AdenoCA.SBS17b.synthetic.exposure
N = 73 prob = 0.73
mu = 3323.41
size = 0.58
Density
0.0000
0.0010
0.0020
0
5000
10000
15000
counts

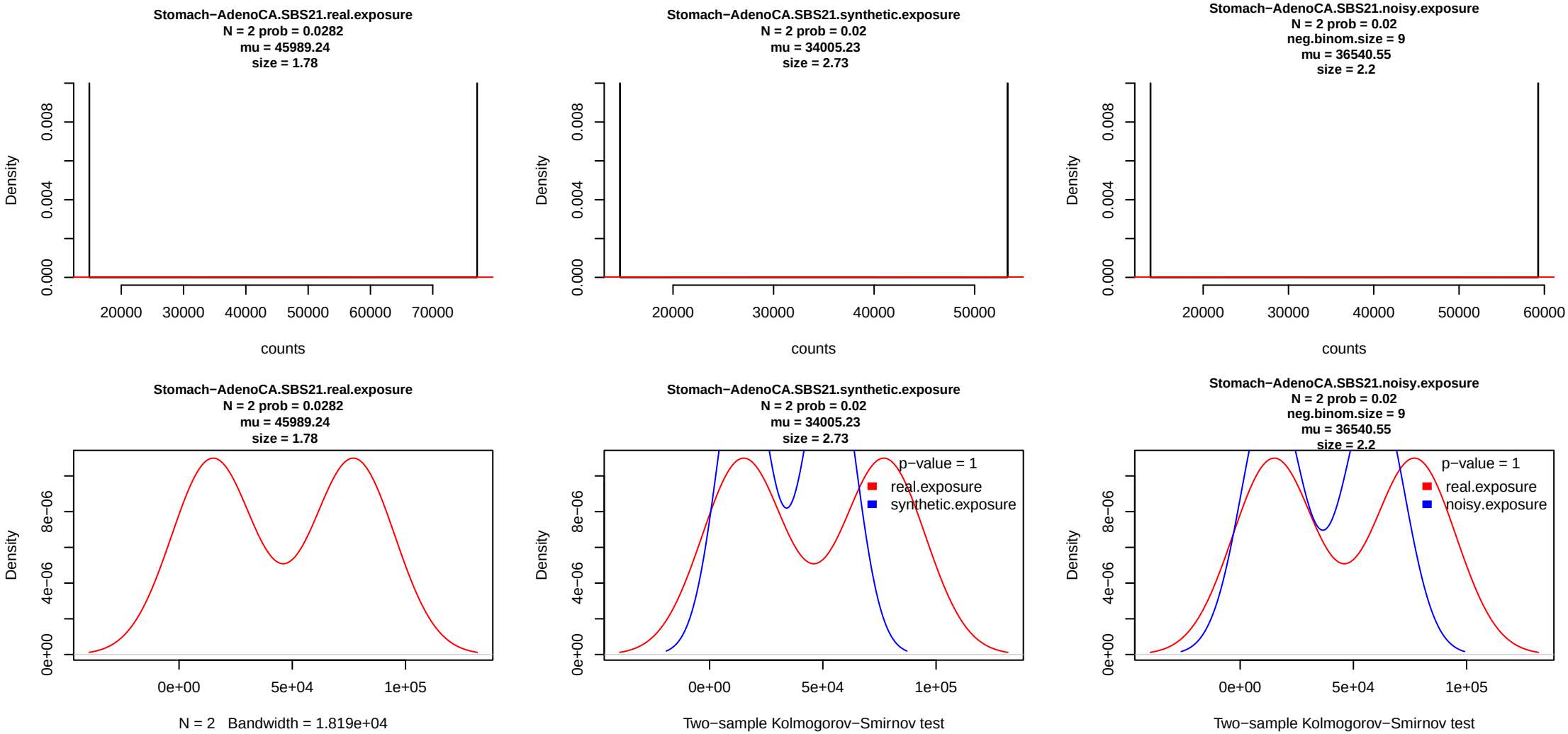

Stomach−AdenoCA.SBS17b.noisy.exposure
N = 73 prob = 0.73
neg.binom.size = 9
mu = 3364.53
size = 0.57
Density
0.0000
0.0010
0.0020
0
5000
10000
15000
counts

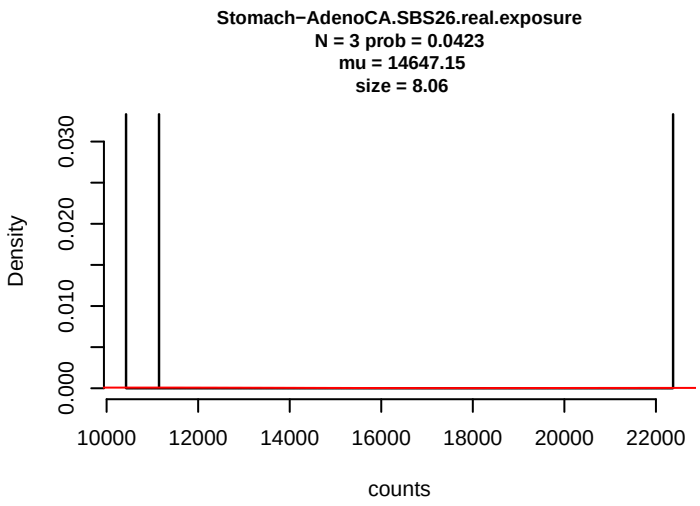

Stomach−AdenoCA.SBS17b.real.exposure
N = 50 prob = 0.7042
mu = 3947.9
size = 0.62
Density
0.00000
0.00010
0.00020
0
10000
20000
30000
N = 50 Bandwidth = 1032

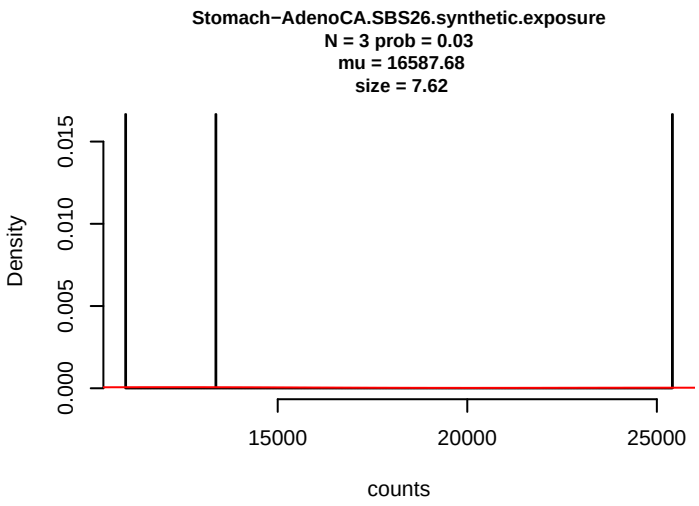

Stomach−AdenoCA.SBS17b.synthetic.exposure
N = 73 prob = 0.73
mu = 3323.41
size = 0.58
p−value = 0.688
real.exposure
synthetic.exposure
Density
0.00000
0.00010
0.00020
0
10000
20000
30000
Two−sample Kolmogorov−Smirnov test

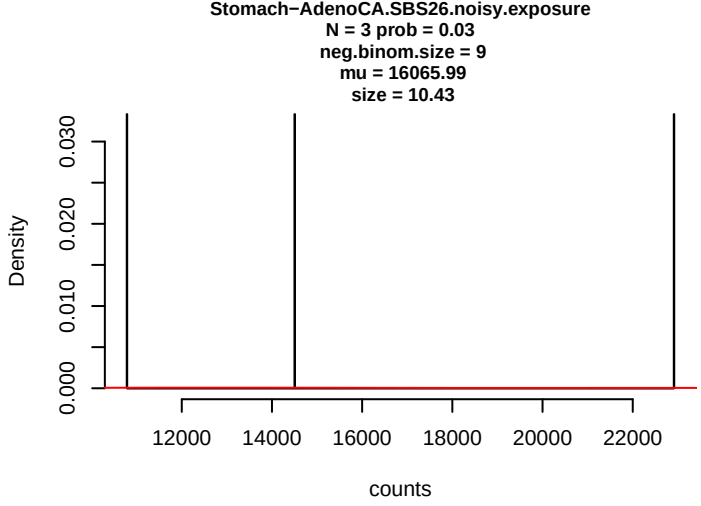

Stomach−AdenoCA.SBS17b.noisy.exposure
N = 73 prob = 0.73
neg.binom.size = 9
mu = 3364.53
size = 0.57
p−value = 0.628
real.exposure
noisy.exposure
Density
0.00000
0.00010
0.00020
0
10000
20000
30000
Two−sample Kolmogorov−Smirnov test

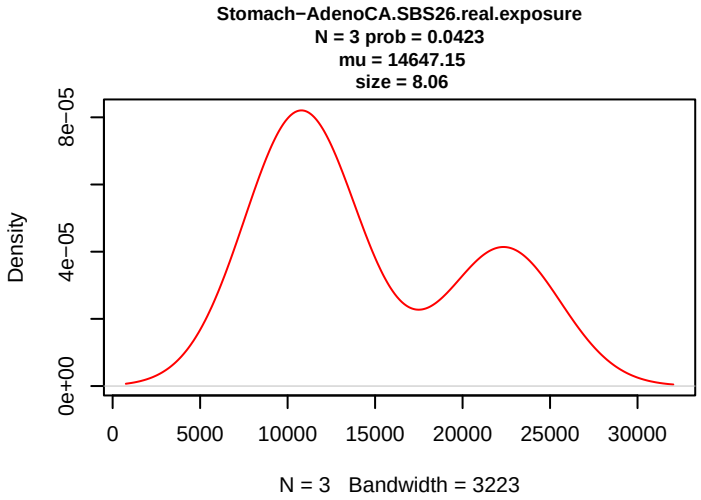

Stomach−AdenoCA.SBS18.real.exposure
N = 44 prob = 0.6197
mu = 2369.15
size = 1.49
Density
counts
Stomach−AdenoCA.SBS18.synthetic.exposure
N = 52 prob = 0.52
mu = 2176.78
size = 1.52
Density
counts
Stomach−AdenoCA.SBS18.noisy.exposure
N = 52 prob = 0.52
neg.binom.size = 9
mu = 2142.6
size = 1.49
Density
counts
Stomach−AdenoCA.SBS18.real.exposure
N = 44 prob = 0.6197
mu = 2369.15
size = 1.49
Density
N = 44 Bandwidth = 525
Stomach−AdenoCA.SBS18.synthetic.exposure
N = 52 prob = 0.52
mu = 2176.78
size = 1.52
p−value = 0.96
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS18.noisy.exposure
N = 52 prob = 0.52
neg.binom.size = 9
mu = 2142.6
size = 1.49
p−value = 0.72
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS20.real.exposure
N = 1 prob = 0.0141
mu = 53577
size = 0.78
Density
counts
Stomach−AdenoCA.SBS20.synthetic.exposure
N = 3 prob = 0.03
mu = 21700.88
size = 0.21
Density
counts
Stomach−AdenoCA.SBS20.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 20415.91
size = 0.22
Density
counts

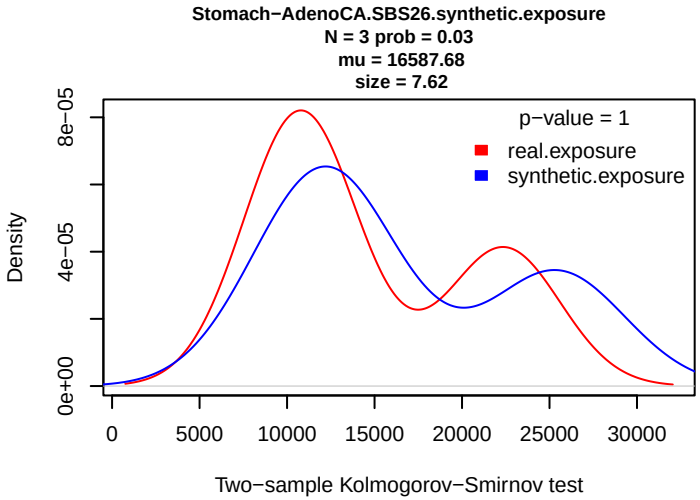

Stomach−AdenoCA.SBS21.real.exposure
N = 2 prob = 0.0282
mu = 45989.24
size = 1.78
Density
counts
Stomach−AdenoCA.SBS21.synthetic.exposure
N = 2 prob = 0.02
mu = 34005.23
size = 2.73
Stomach−AdenoCA.SBS21.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 36540.55
size = 2.2
N = 2 Bandwidth = 1.819e+04
p−value = 1
real.exposure
synthetic.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test

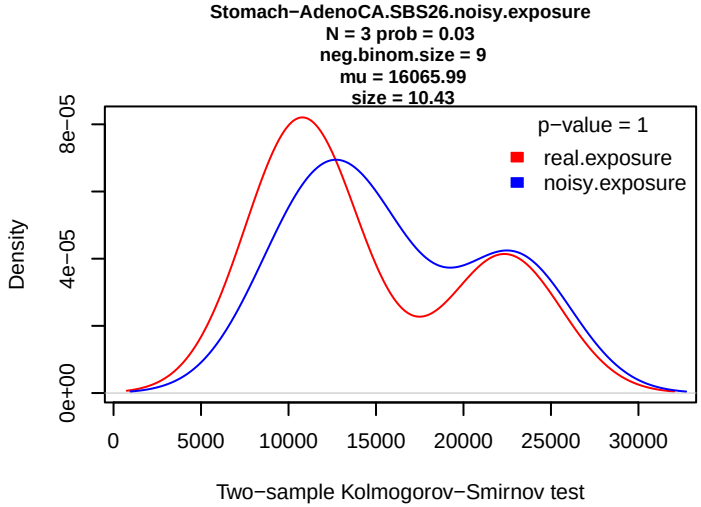

Stomach−AdenoCA.SBS26.real.exposure
N = 3 prob = 0.0423
mu = 14647.15
size = 8.06
Density
counts

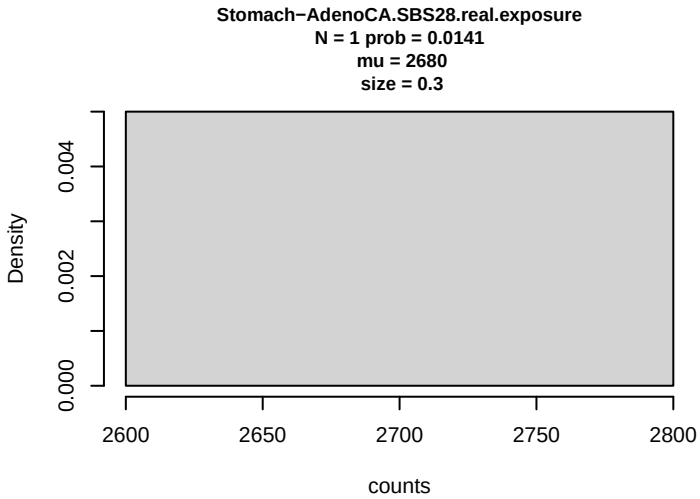

Stomach−AdenoCA.SBS26.synthetic.exposure
N = 3 prob = 0.03
mu = 16587.68
size = 7.62
Density
counts

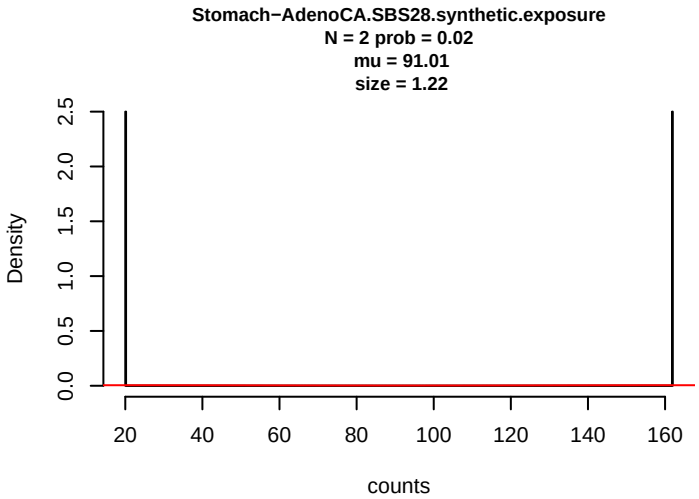

Stomach−AdenoCA.SBS26.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 16065.99
size = 10.43
Density
counts

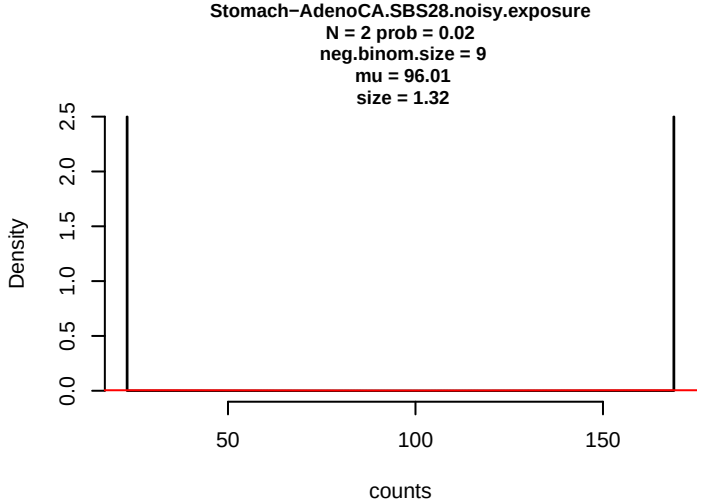

Stomach−AdenoCA.SBS26.real.exposure
N = 3 prob = 0.0423
mu = 14647.15
size = 8.06
Density
N = 3 Bandwidth = 3223

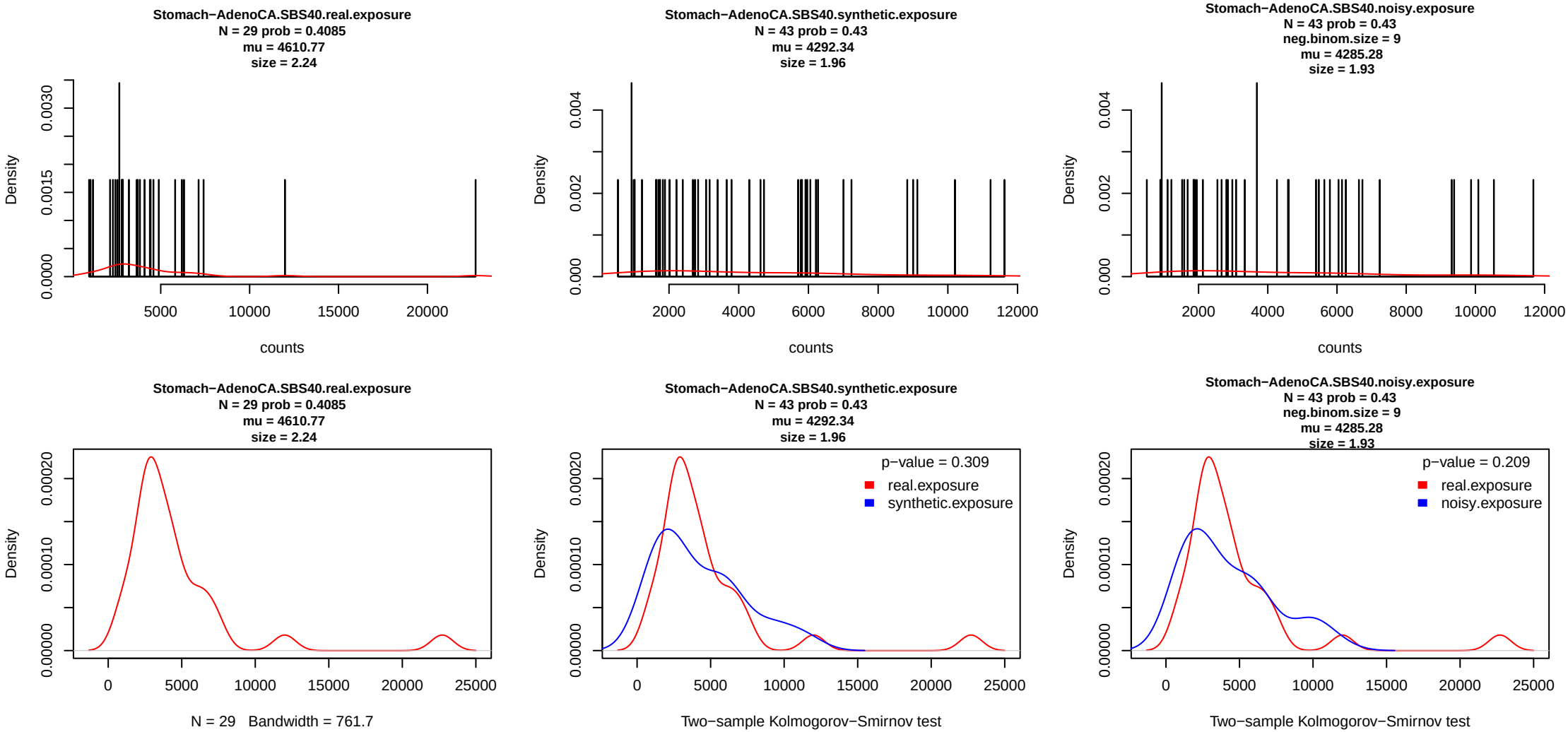

Stomach−AdenoCA.SBS26.synthetic.exposure
N = 3 prob = 0.03
mu = 16587.68
size = 7.62
p−value = 1
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test

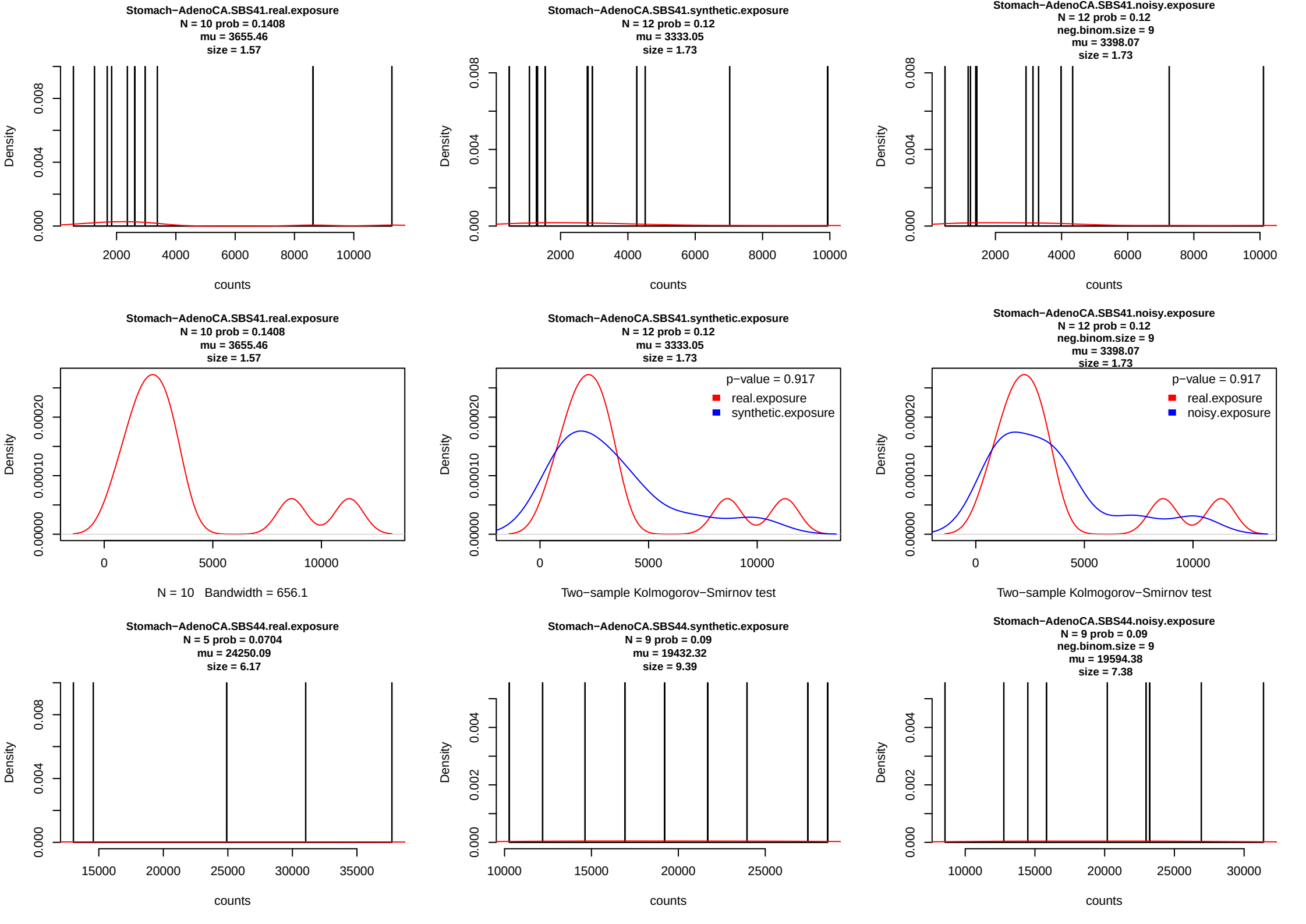

Stomach−AdenoCA.SBS26.noisy.exposure
N = 3 prob = 0.03
neg.binom.size = 9
mu = 16065.99
size = 10.43
p−value = 1
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test

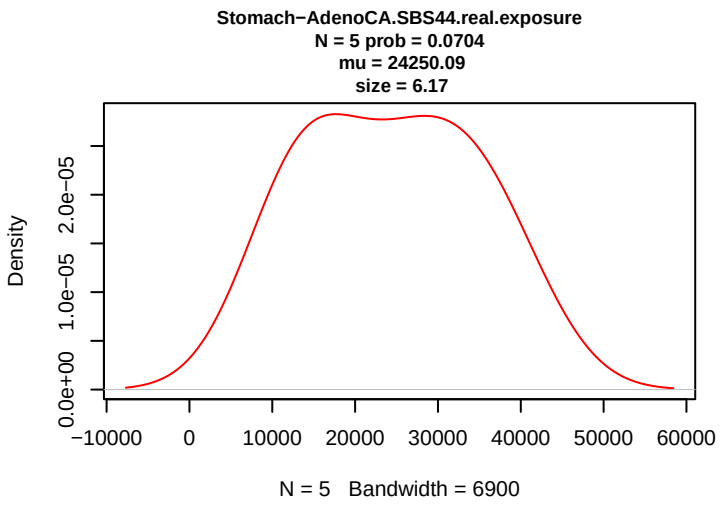

Stomach−AdenoCA.SBS28.real.exposure
N = 1 prob = 0.0141
mu = 2680
size = 0.3
Density
counts

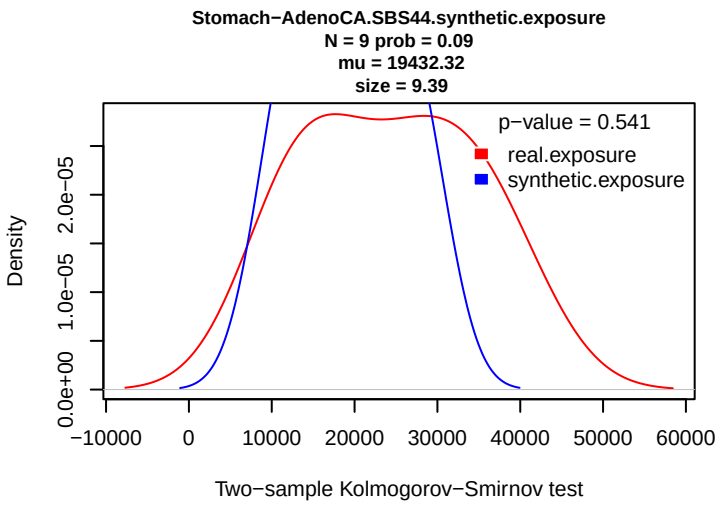

Stomach−AdenoCA.SBS28.synthetic.exposure
N = 2 prob = 0.02
mu = 91.01
size = 1.22
Density
counts

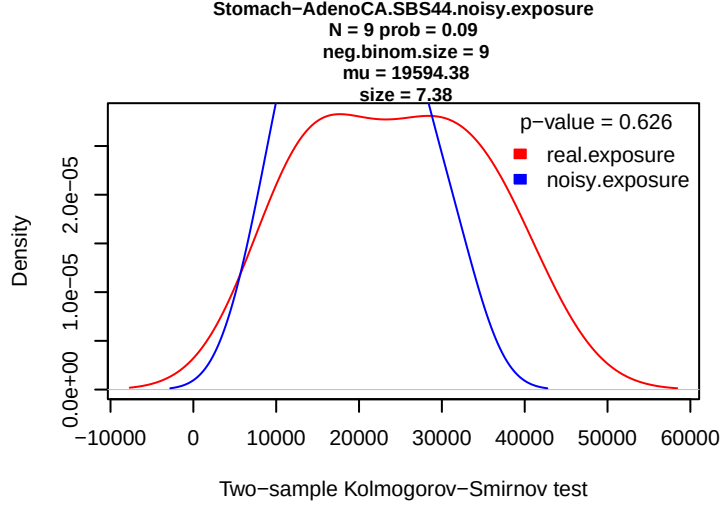

Stomach−AdenoCA.SBS28.noisy.exposure
N = 2 prob = 0.02
neg.binom.size = 9
mu = 96.01
size = 1.32
Density
counts


Stomach−AdenoCA.SBS40.real.exposure
N = 29 prob = 0.4085
mu = 4610.77
size = 2.24
Density
counts
Stomach−AdenoCA.SBS40.synthetic.exposure
N = 43 prob = 0.43
mu = 4292.34
size = 1.96
Density
counts
Stomach−AdenoCA.SBS40.noisy.exposure
N = 43 prob = 0.43
neg.binom.size = 9
mu = 4285.28
size = 1.93
Density
counts
Stomach−AdenoCA.SBS40.real.exposure
N = 29 prob = 0.4085
mu = 4610.77
size = 2.24
Density
N = 29 Bandwidth = 761.7
Stomach−AdenoCA.SBS40.synthetic.exposure
N = 43 prob = 0.43
mu = 4292.34
size = 1.96
p−value = 0.309
real.exposure
synthetic.exposure
Density
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS40.noisy.exposure
N = 43 prob = 0.43
neg.binom.size = 9
mu = 4285.28
size = 1.93
p−value = 0.209
real.exposure
noisy.exposure
Density
Two−sample Kolmogorov−Smirnov test


Stomach−AdenoCA.SBS41.real.exposure
N = 10 prob = 0.1408
mu = 3655.46
size = 1.57
Stomach−AdenoCA.SBS41.synthetic.exposure
N = 12 prob = 0.12
mu = 3333.05
size = 1.73
Stomach−AdenoCA.SBS41.noisy.exposure
N = 12 prob = 0.12
neg.binom.size = 9
mu = 3398.07
size = 1.73
Density
counts
Stomach−AdenoCA.SBS41.real.exposure
N = 10 prob = 0.1408
mu = 3655.46
size = 1.57
N = 10 Bandwidth = 656.1
Stomach−AdenoCA.SBS41.synthetic.exposure
N = 12 prob = 0.12
mu = 3333.05
size = 1.73
p−value = 0.917
real.exposure
synthetic.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS41.noisy.exposure
N = 12 prob = 0.12
neg.binom.size = 9
mu = 3398.07
size = 1.73
p−value = 0.917
real.exposure
noisy.exposure
Two−sample Kolmogorov−Smirnov test
Stomach−AdenoCA.SBS44.real.exposure
N = 5 prob = 0.0704
mu = 24250.09
size = 6.17
Stomach−AdenoCA.SBS44.synthetic.exposure
N = 9 prob = 0.09
mu = 19432.32
size = 9.39
Stomach−AdenoCA.SBS44.noisy.exposure
N = 9 prob = 0.09
neg.binom.size = 9
mu = 19594.38
size = 7.38


Stomach−AdenoCA.SBS44.real.exposure
N = 5 prob = 0.0704
mu = 24250.09
size = 6.17
Density
0.0e+00
1.0e−05
2.0e−05
−10000
0
10000
20000
30000
40000
50000
60000
N = 5 Bandwidth = 6900


Stomach−AdenoCA.SBS44.synthetic.exposure
N = 9 prob = 0.09
mu = 19432.32
size = 9.39
p−value = 0.541
real.exposure
synthetic.exposure
Density
0.0e+00
1.0e−05
2.0e−05
−10000
0
10000
20000
30000
40000
50000
60000
Two−sample Kolmogorov−Smirnov test


Stomach−AdenoCA.SBS44.noisy.exposure
N = 9 prob = 0.09
neg.binom.size = 9
mu = 19594.38
size = 7.38
p−value = 0.626
real.exposure
noisy.exposure
Density
0.0e+00
1.0e−05
2.0e−05
−10000
0
10000
20000
30000
40000
50000
60000
Two−sample Kolmogorov−Smirnov test