Benchmark 70% − 30%

Parameters:

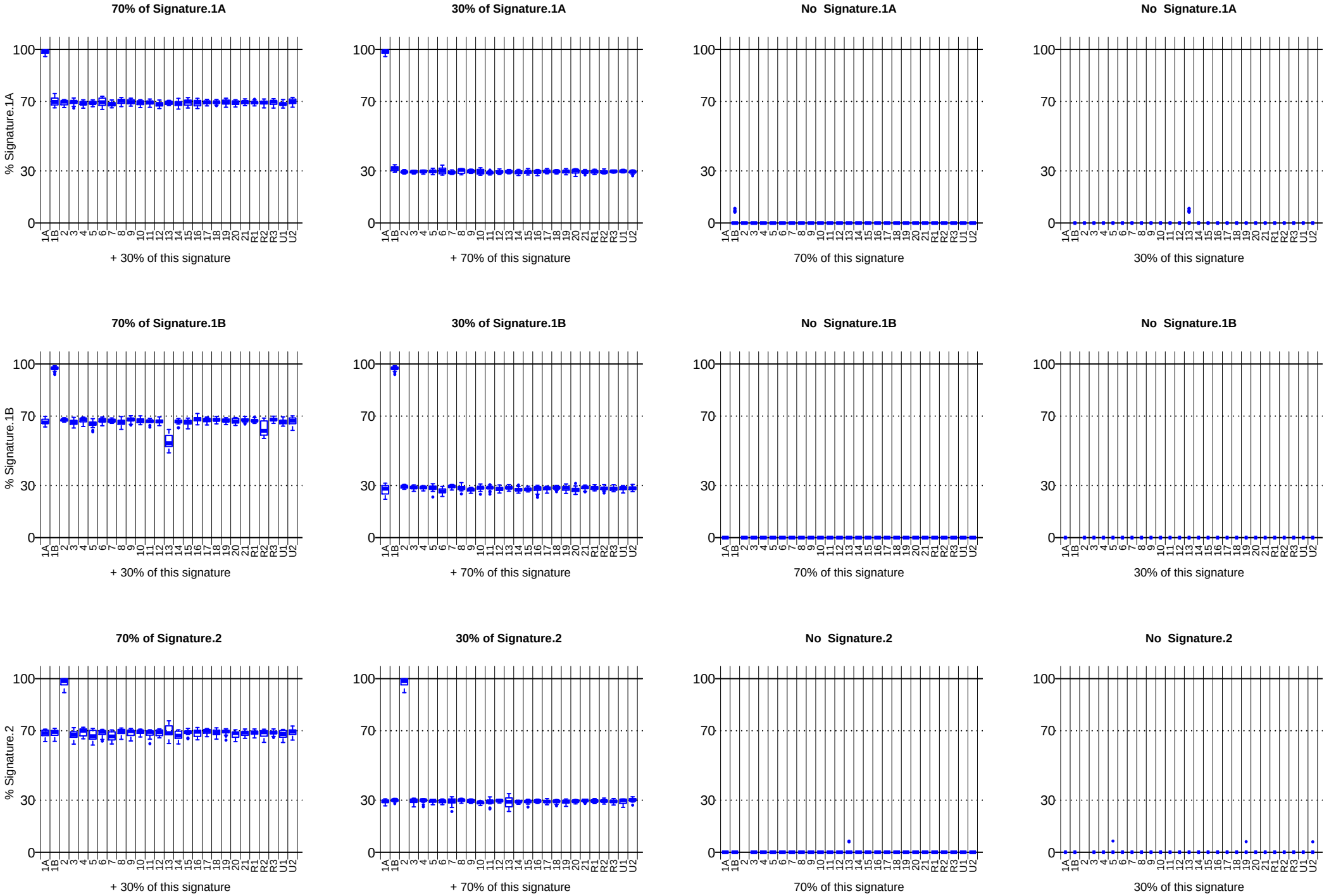
- 70% − 30% pairwise patterns
- 20 samples for each combination
- 5% uniform noise

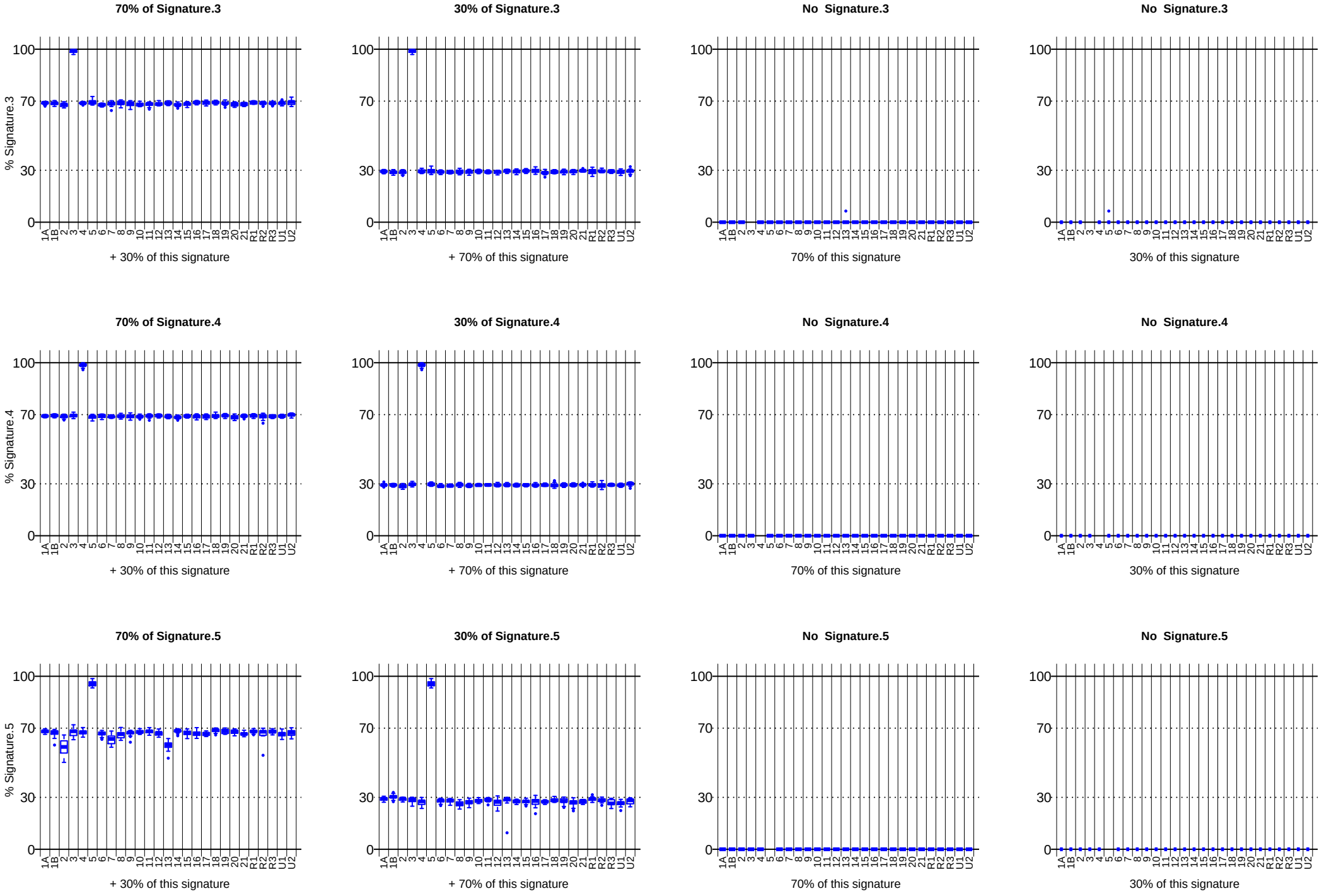
Each row corresponds to a particular signature (27 in total)

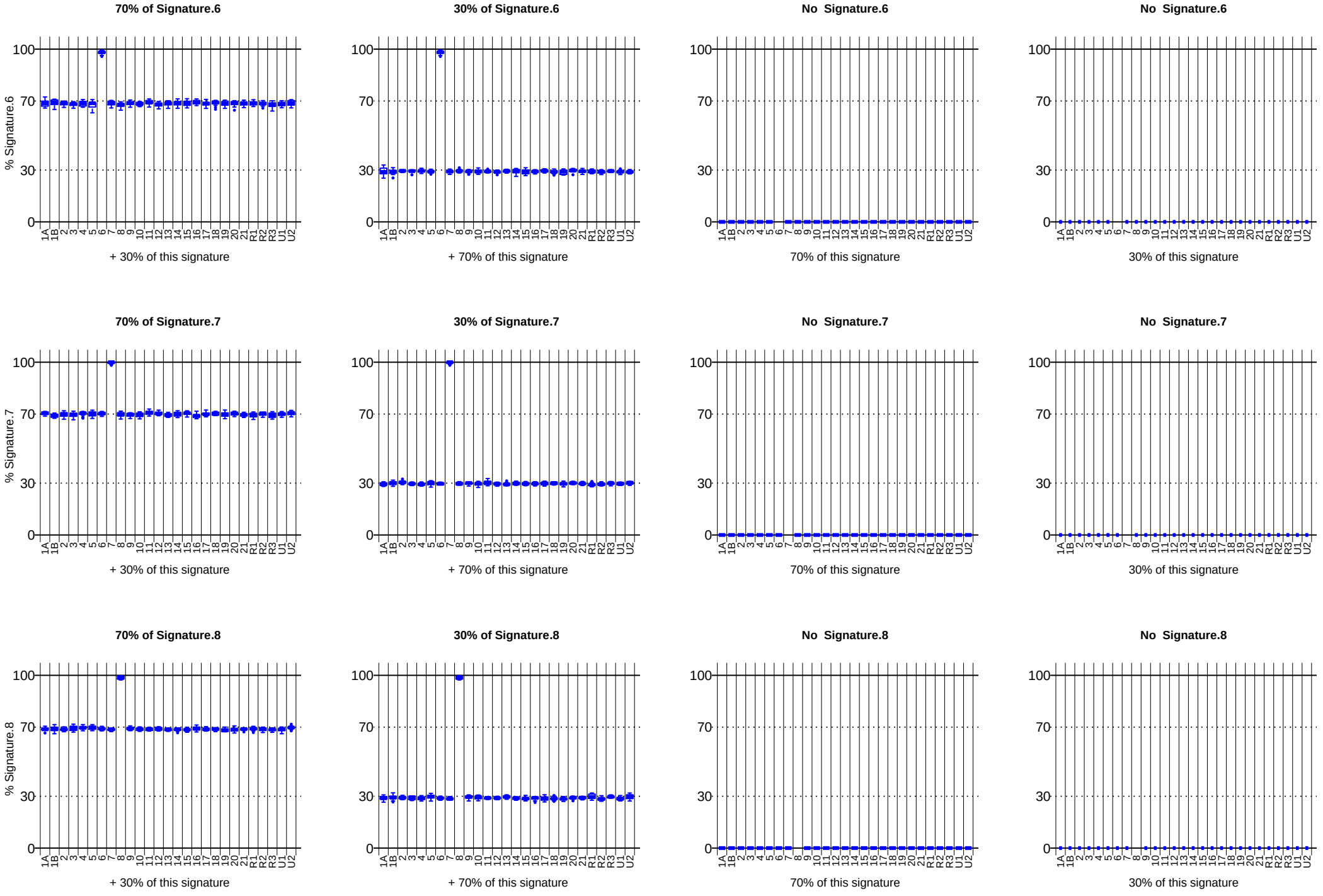
For each signature, there are 4 boxplots showing the contribution of that signature:

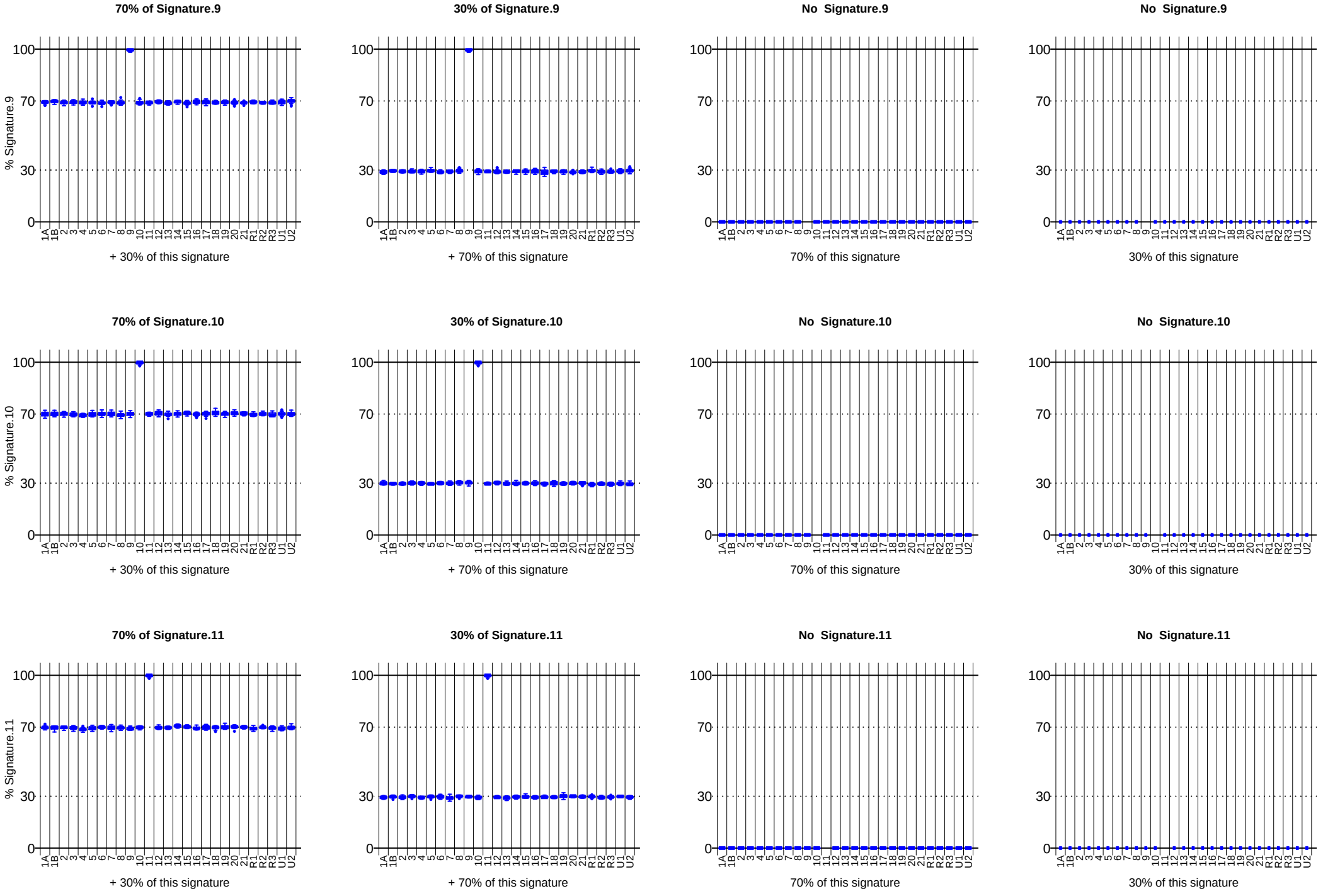
1. when it forms 70% of the simulated pattern, w.r.t. the signature that forms 30% of the pattern
2. when it forms 30% of the simulated pattern, w.r.t. the signature that forms 70% of the pattern
3. when it is not in the simulated pattern, w.r.t. the signature that forms 70% of the pattern
4. when it is not in the simulated pattern, w.r.t. the signature that forms 30% of the pattern

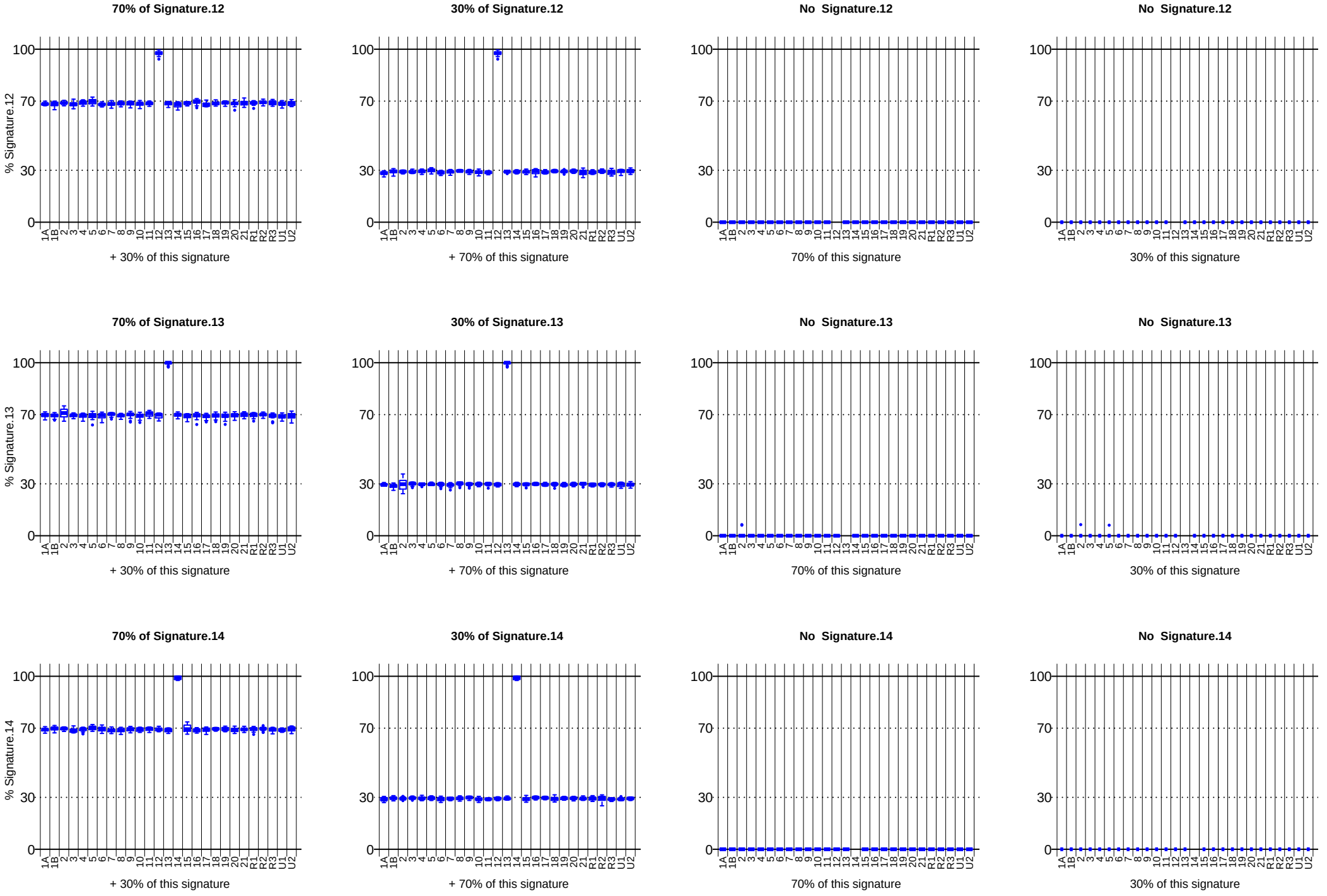
Combinations of high sig.1B and low sig.13 or low sig.R2, or combinations of high sig.5 and low sig.2 or low sig.13 are more challenging to decompose. Nearly all other cases behave as expected.

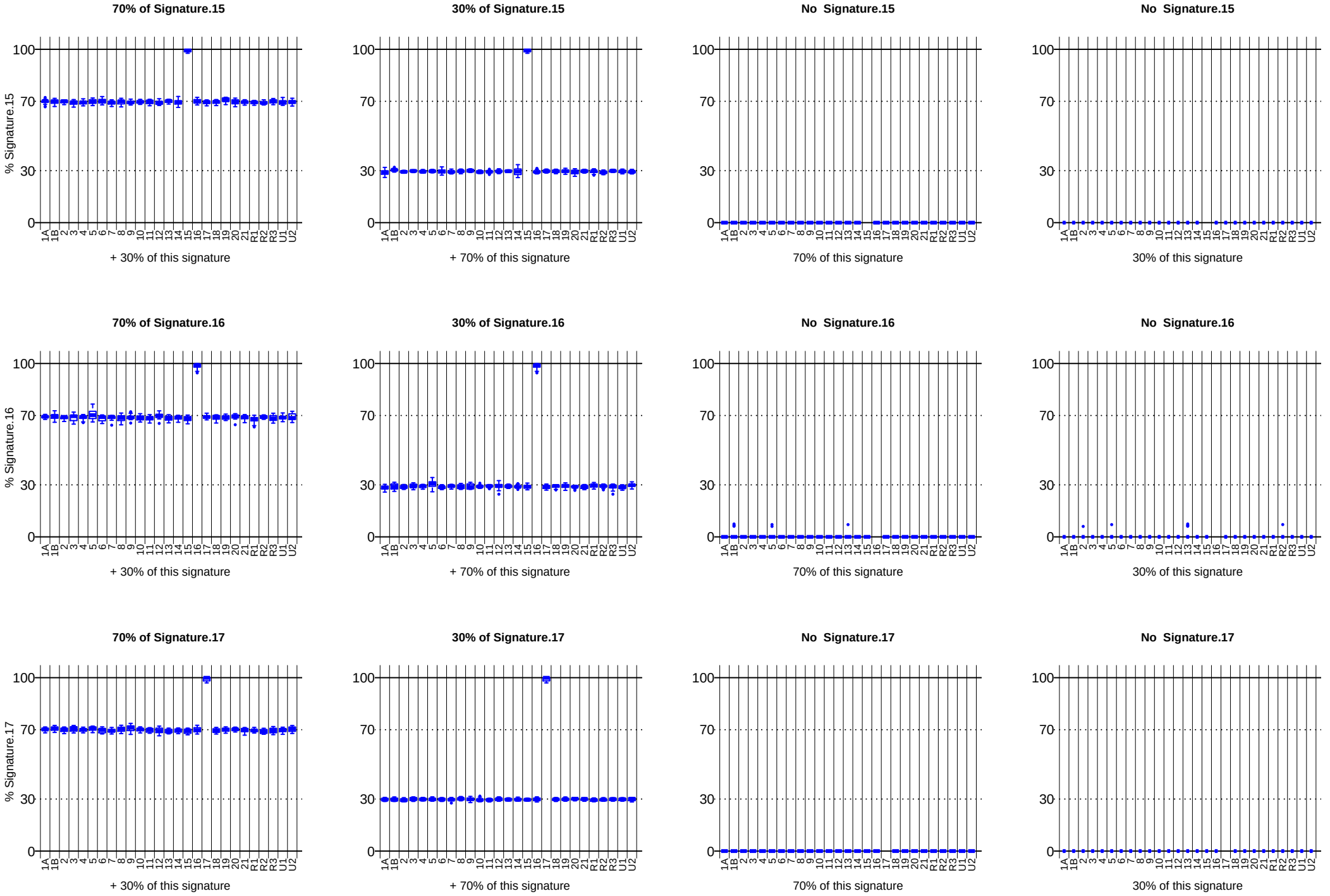

70% of Signature.1A
30% of Signature.1A
No Signature.1A
No Signature.1A
% Signature.1A
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.1B
30% of Signature.1B
No Signature.1B
No Signature.1B
% Signature.1B
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.2
30% of Signature.2
No Signature.2
No Signature.2
% Signature.2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature

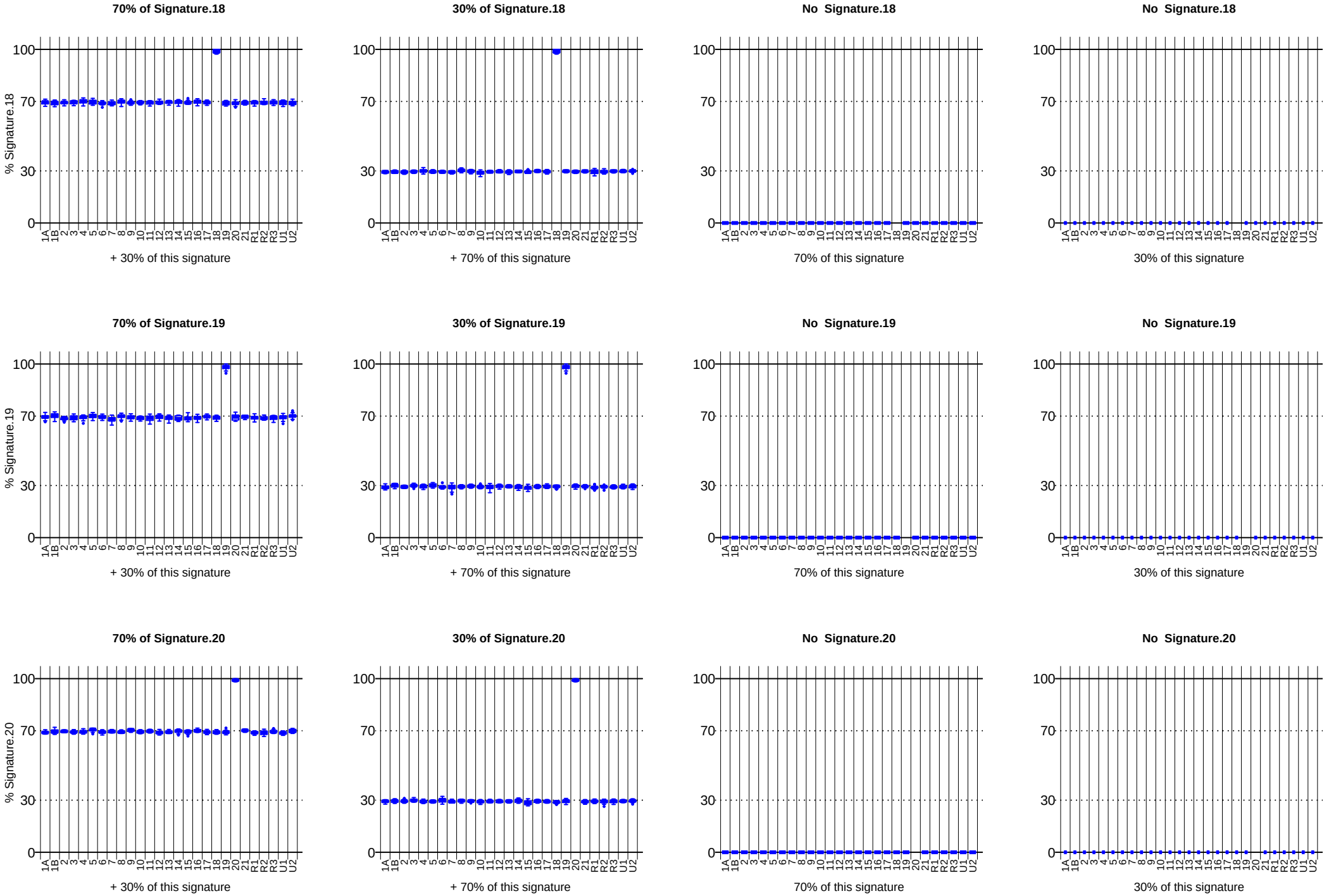

70% of Signature.3
30% of Signature.3
No Signature.3
No Signature.3
% Signature.3
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.4
30% of Signature.4
No Signature.4
No Signature.4
% Signature.4
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.5
30% of Signature.5
No Signature.5
No Signature.5
% Signature.5
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature

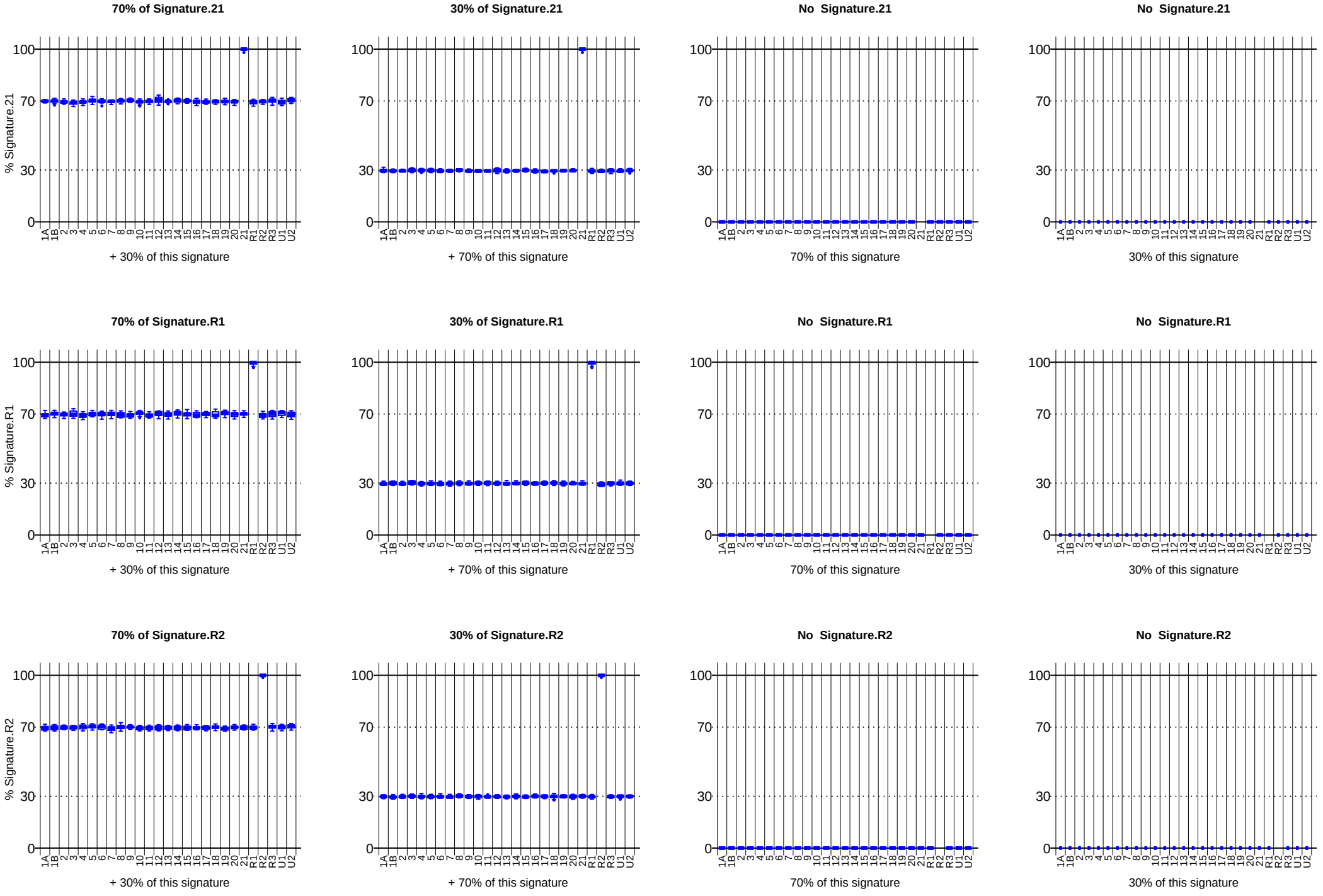

70% of Signature.6
30% of Signature.6
No Signature.6
No Signature.6
% Signature.6
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.7
30% of Signature.7
No Signature.7
No Signature.7
% Signature.7
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.8
30% of Signature.8
No Signature.8
No Signature.8
% Signature.8
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature

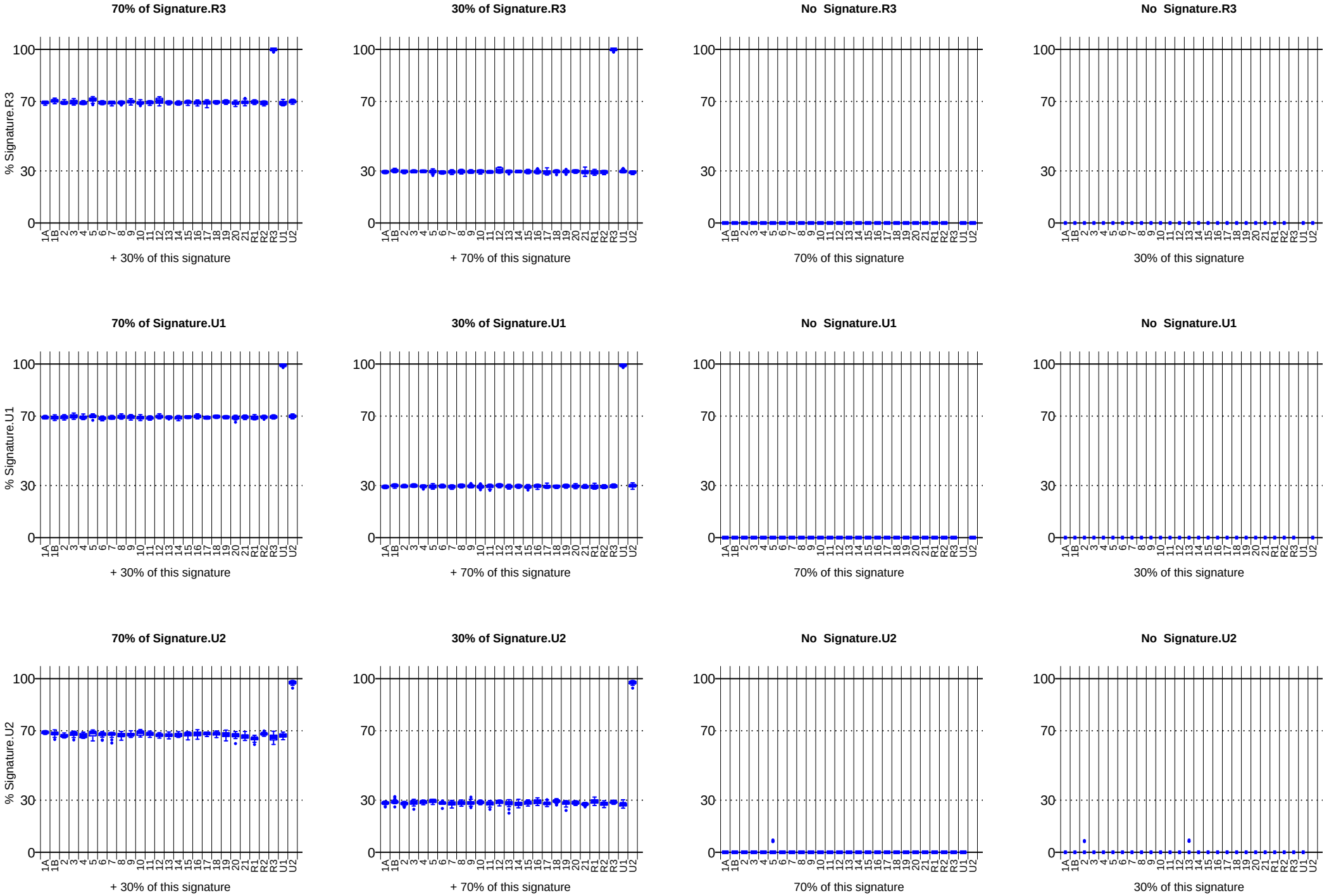

70% of Signature.9
30% of Signature.9
No Signature.9
No Signature.9
% Signature.9
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.10
30% of Signature.10
No Signature.10
No Signature.10
% Signature.10
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.11
30% of Signature.11
No Signature.11
No Signature.11
% Signature.11
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature


70% of Signature.12
30% of Signature.12
No Signature.12
No Signature.12
% Signature.12
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.13
30% of Signature.13
No Signature.13
No Signature.13
% Signature.13
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.14
30% of Signature.14
No Signature.14
No Signature.14
% Signature.14
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature


70% of Signature.15
30% of Signature.15
No Signature.15
No Signature.15
% Signature.15
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.16
30% of Signature.16
No Signature.16
No Signature.16
% Signature.16
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.17
30% of Signature.17
No Signature.17
No Signature.17
% Signature.17
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature


70% of Signature.18
30% of Signature.18
No Signature.18
No Signature.18
% Signature.18
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.19
30% of Signature.19
No Signature.19
No Signature.19
% Signature.19
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.20
30% of Signature.20
No Signature.20
No Signature.20
% Signature.20
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature


70% of Signature.21
30% of Signature.21
No Signature.21
No Signature.21
% Signature.21
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.R1
30% of Signature.R1
No Signature.R1
No Signature.R1
% Signature.R1
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.R2
30% of Signature.R2
No Signature.R2
No Signature.R2
% Signature.R2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature


70% of Signature.R3
30% of Signature.R3
No Signature.R3
No Signature.R3
% Signature.R3
100
70
30
0
1A 1B 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 R1 R2 R3 U1 U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.U1
30% of Signature.U1
No Signature.U1
No Signature.U1
% Signature.U1
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature
70% of Signature.U2
30% of Signature.U2
No Signature.U2
No Signature.U2
% Signature.U2
+ 30% of this signature
+ 70% of this signature
70% of this signature
30% of this signature