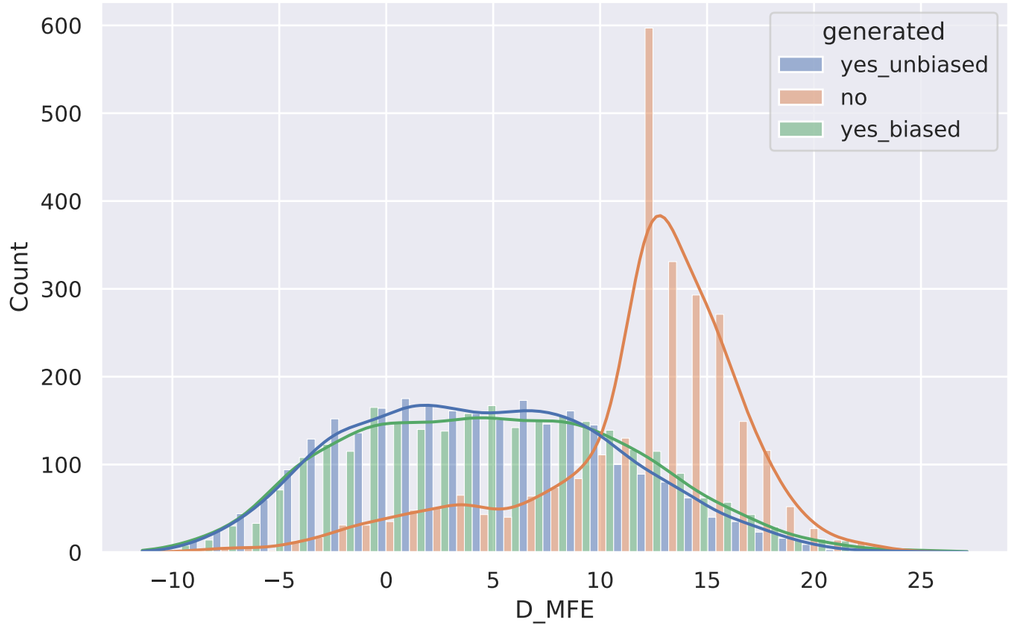
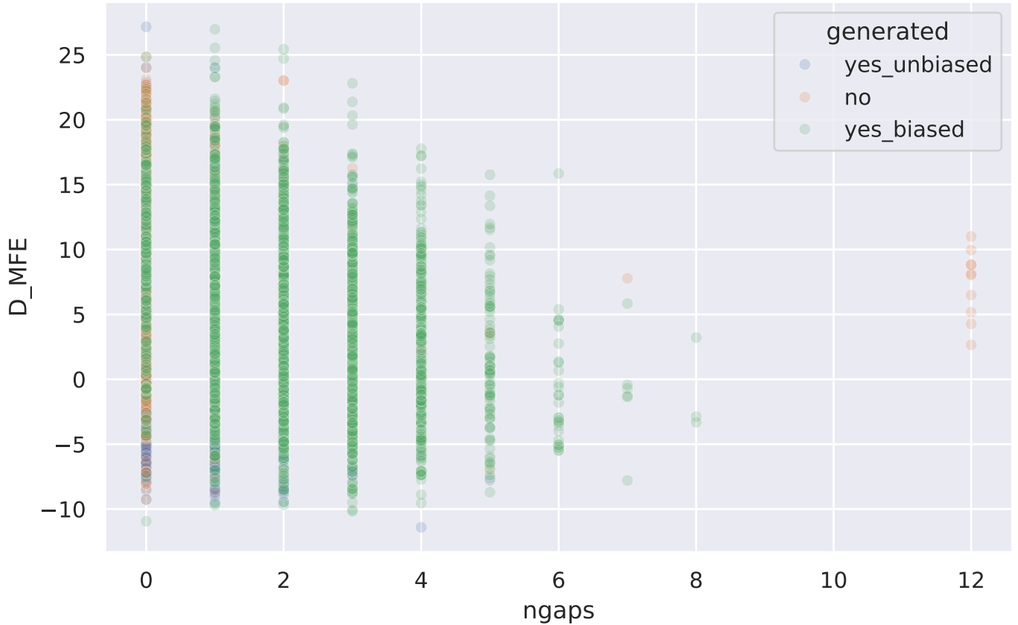
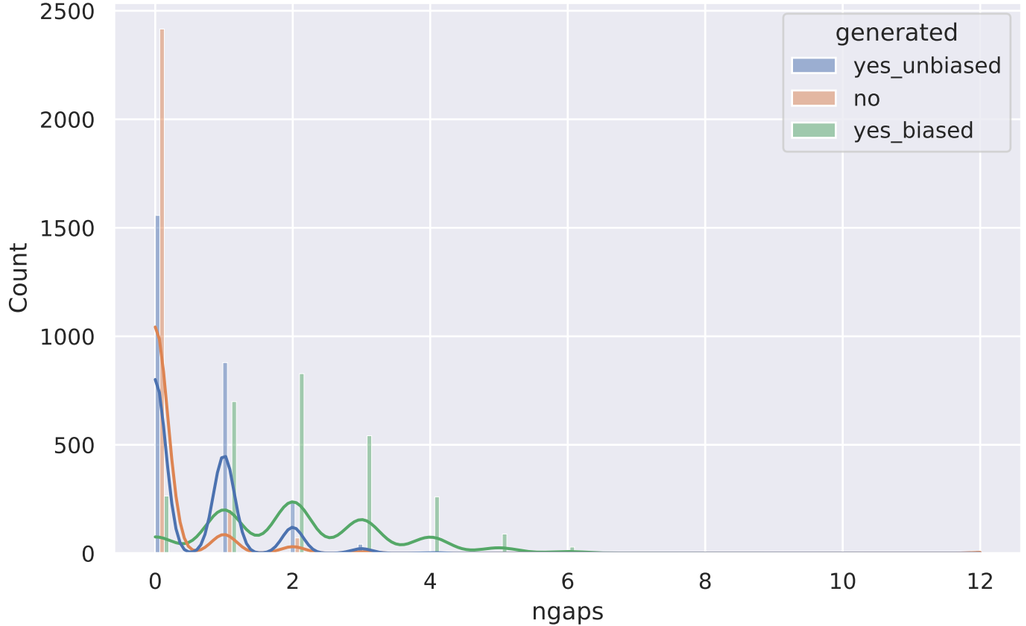
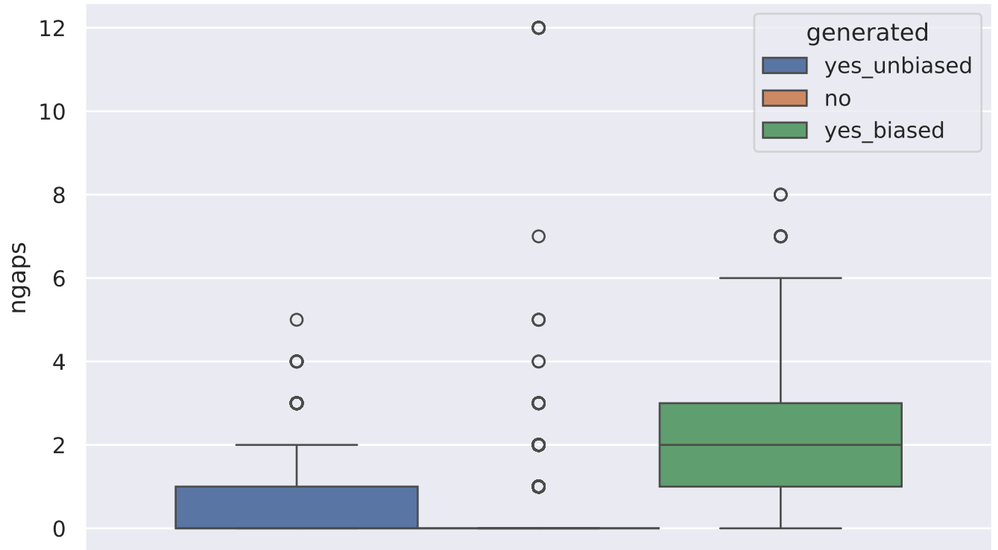
Numeric Feature : D_MFE



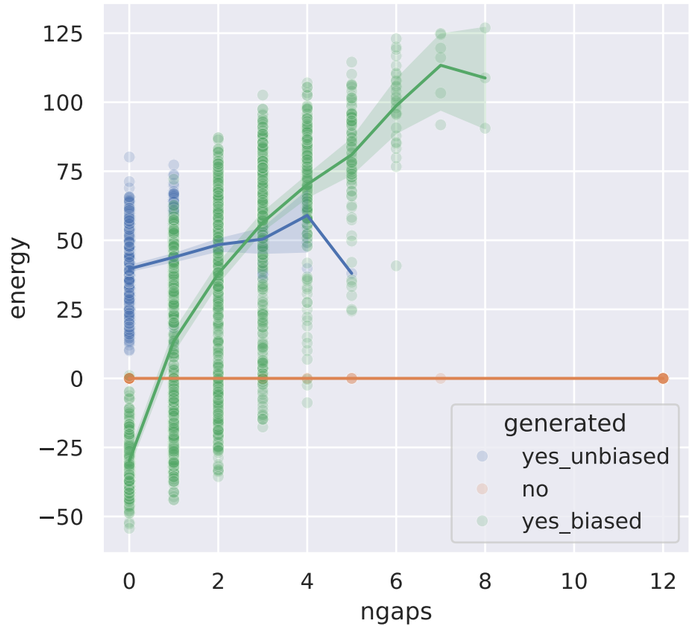


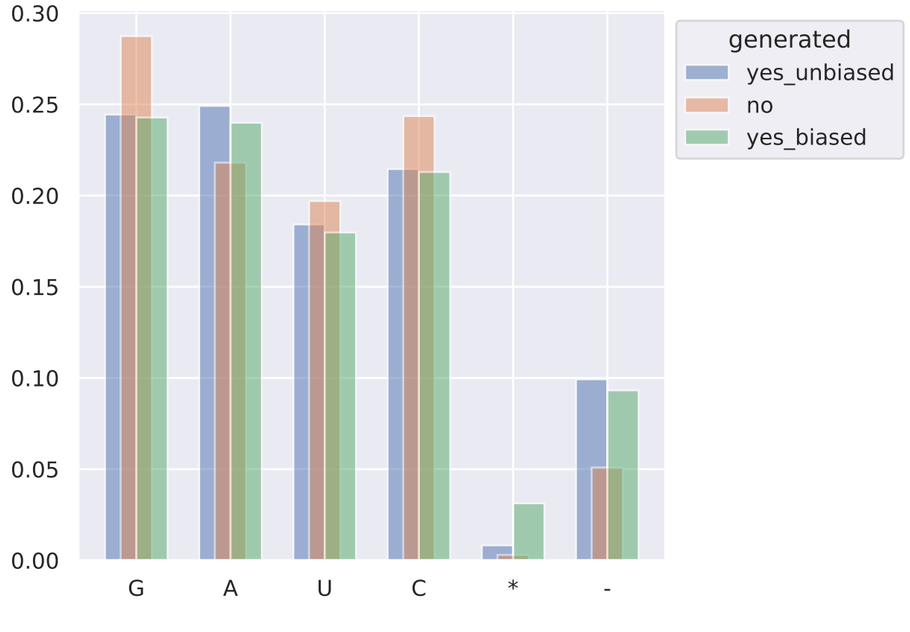
Numeric Feature : ngaps

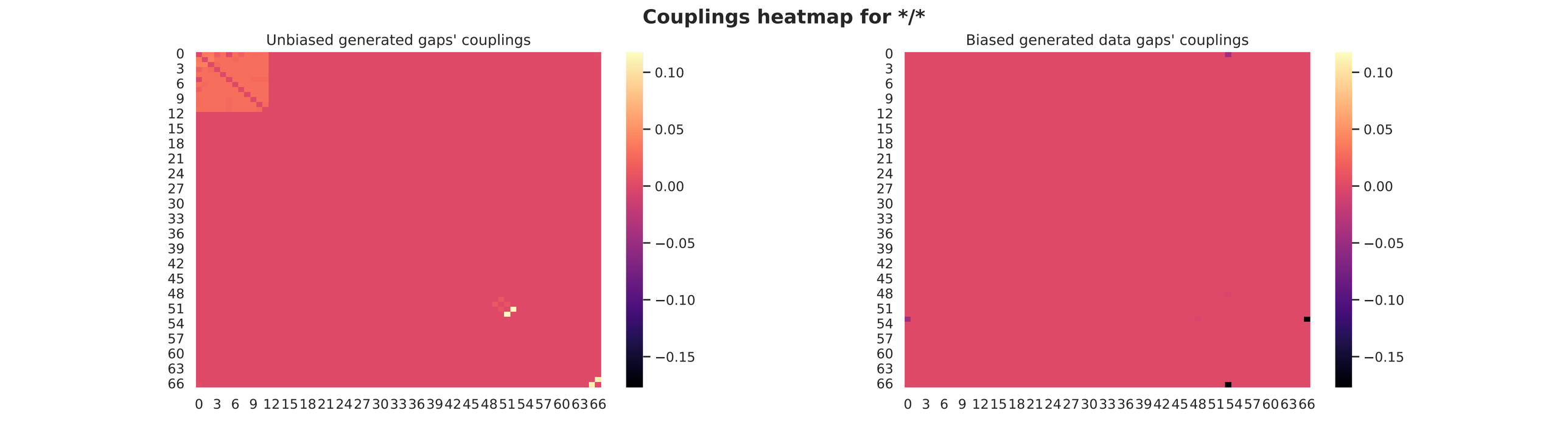


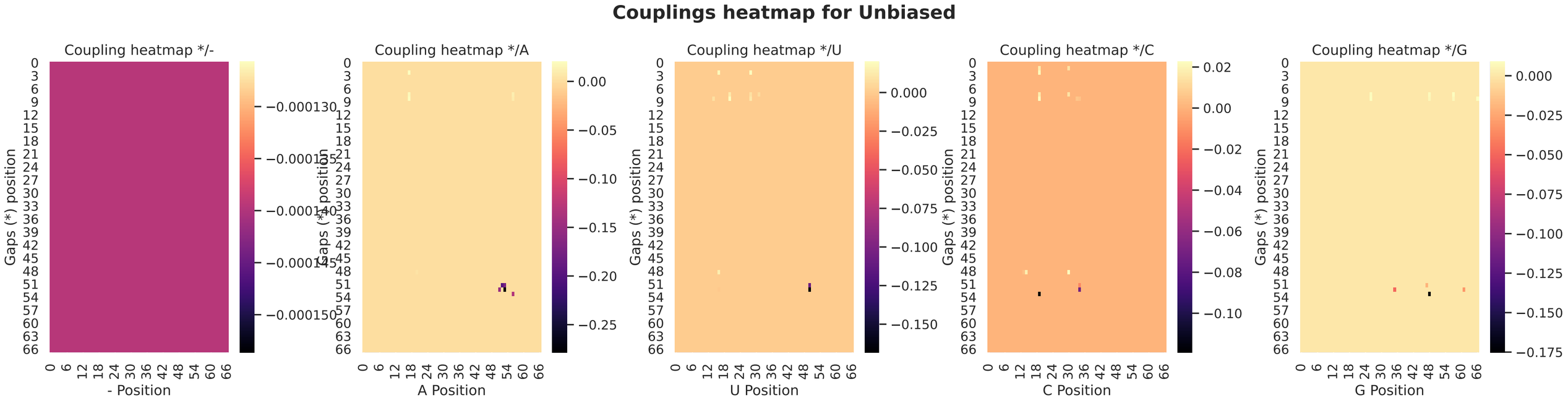


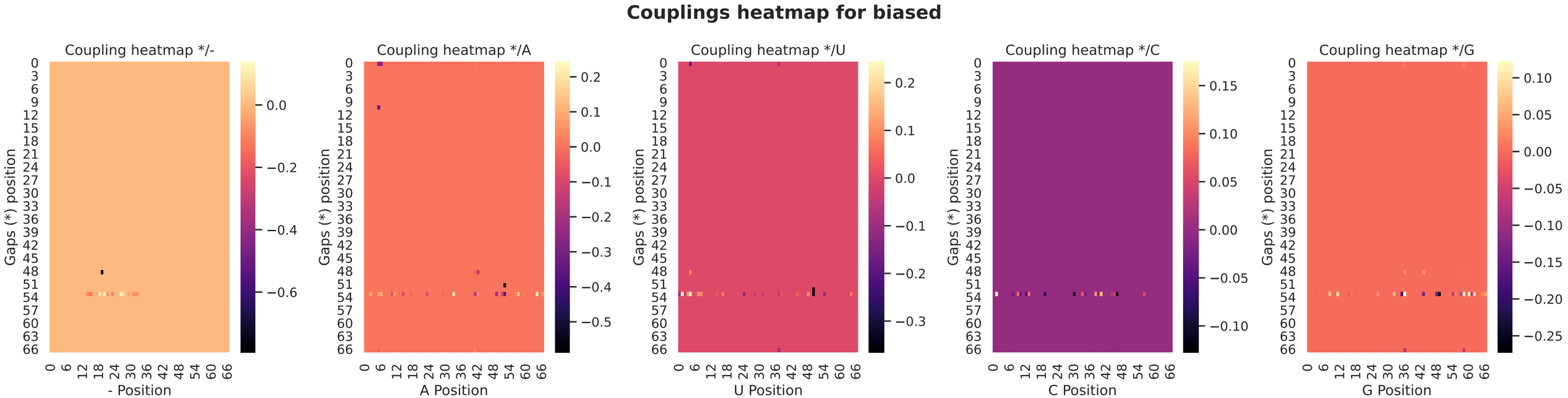
Numeric Feature : Sequences Energy and Nucleic acid average frequency

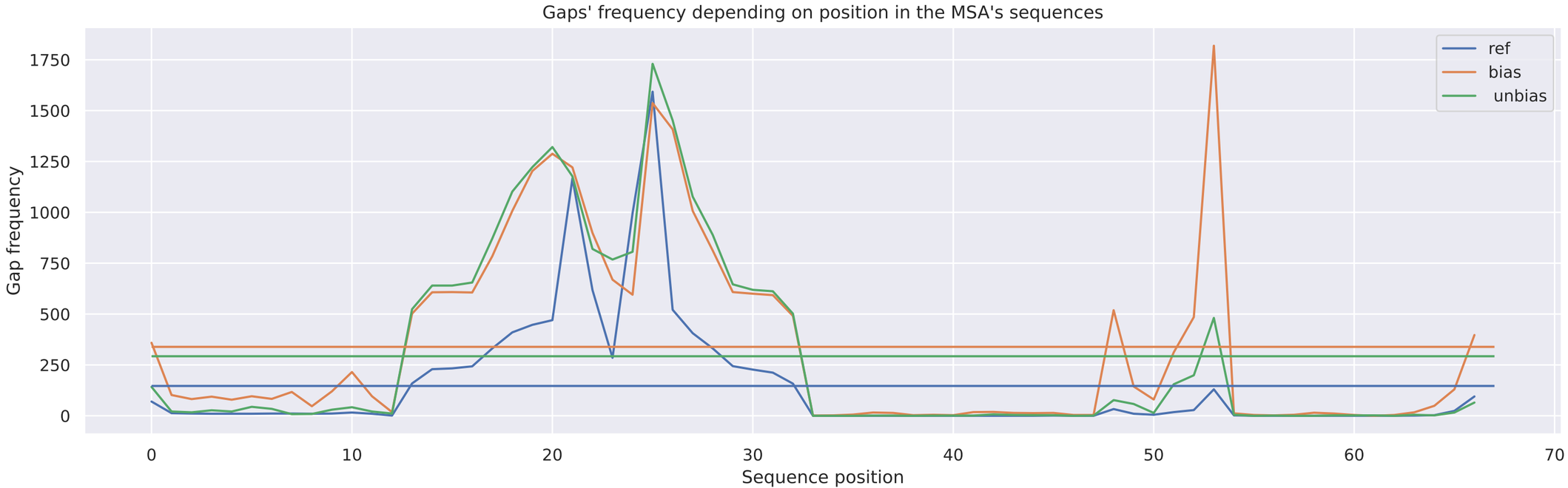


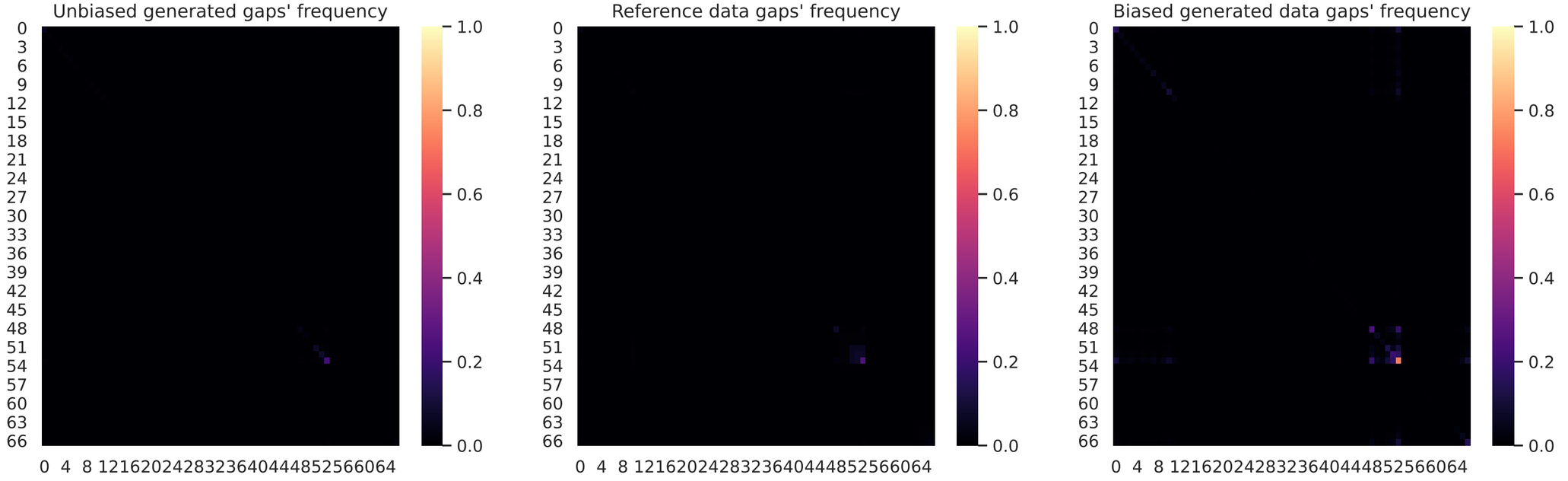


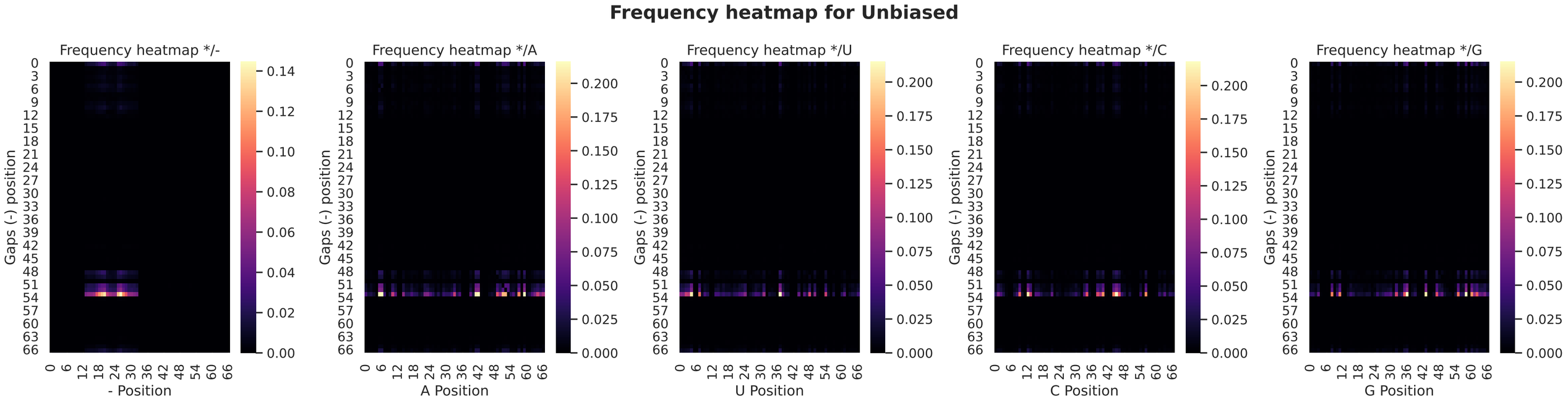

Couplings heatmap for */*
Unbiased generated gaps' couplings
Biased generated data gaps' couplings
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66
0.10
0.05
0.00
−0.05
−0.10
−0.15

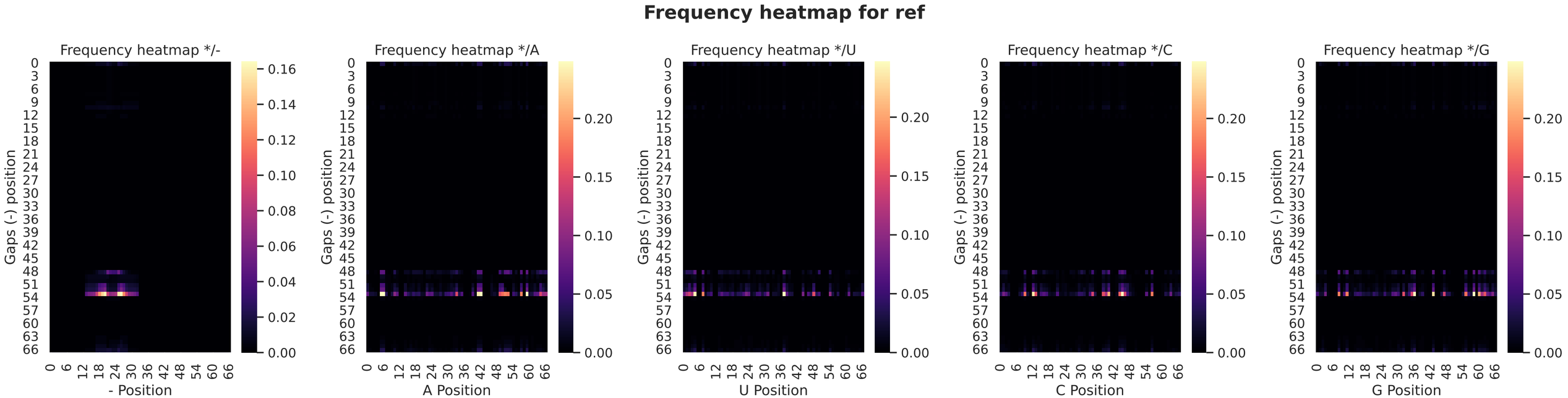

Couplings heatmap for Unbiased
Coupling heatmap */-
Coupling heatmap */A
Coupling heatmap */U
Coupling heatmap */C
Coupling heatmap */G
Gaps (*) position
- Position
A Position
U Position
C Position
G Position

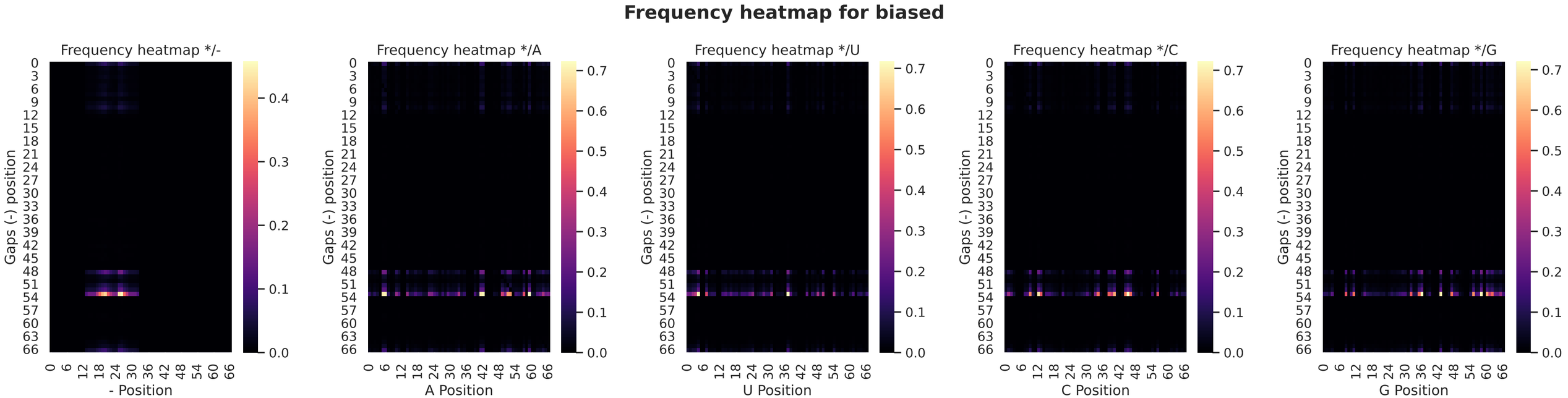

Couplings heatmap for biased
Coupling heatmap */-
Coupling heatmap */A
Coupling heatmap */U
Coupling heatmap */C
Coupling heatmap */G
Gaps (*) position
- Position
A Position
U Position
C Position
G Position


Gaps' frequency depending on position in the MSA's sequences
Gap frequency
Sequence position
ref
bias
unbias
0
250
500
750
1000
1250
1500
1750
0
10
20
30
40
50
60
70


Unbiased generated gaps' frequency
Reference data gaps' frequency
Biased generated data gaps' frequency
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64
1.0 0.8 0.6 0.4 0.2 0.0


Frequency heatmap for Unbiased
Frequency heatmap */-
Frequency heatmap */A
Frequency heatmap */U
Frequency heatmap */C
Frequency heatmap */G
Gaps (-) position
- Position
A Position
U Position
C Position
G Position


Frequency heatmap for ref
Frequency heatmap */-
Frequency heatmap */A
Frequency heatmap */U
Frequency heatmap */C
Frequency heatmap */G
Gaps (-) position
- Position
A Position
U Position
C Position
G Position


Frequency heatmap for biased
Frequency heatmap */-
Frequency heatmap */A
Frequency heatmap */U
Frequency heatmap */C
Frequency heatmap */G
Gaps (-) position
- Position
A Position
U Position
C Position
G Position