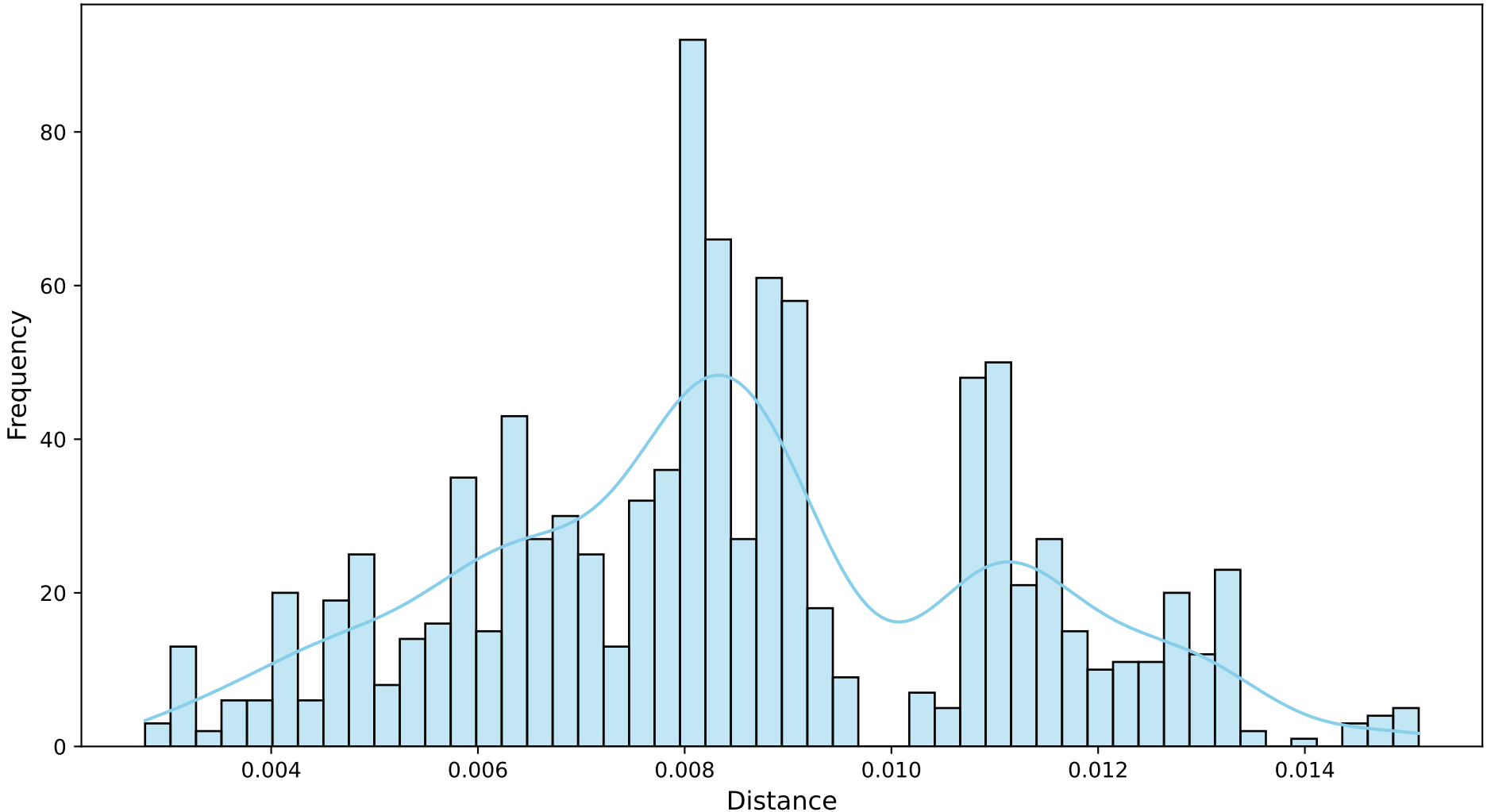
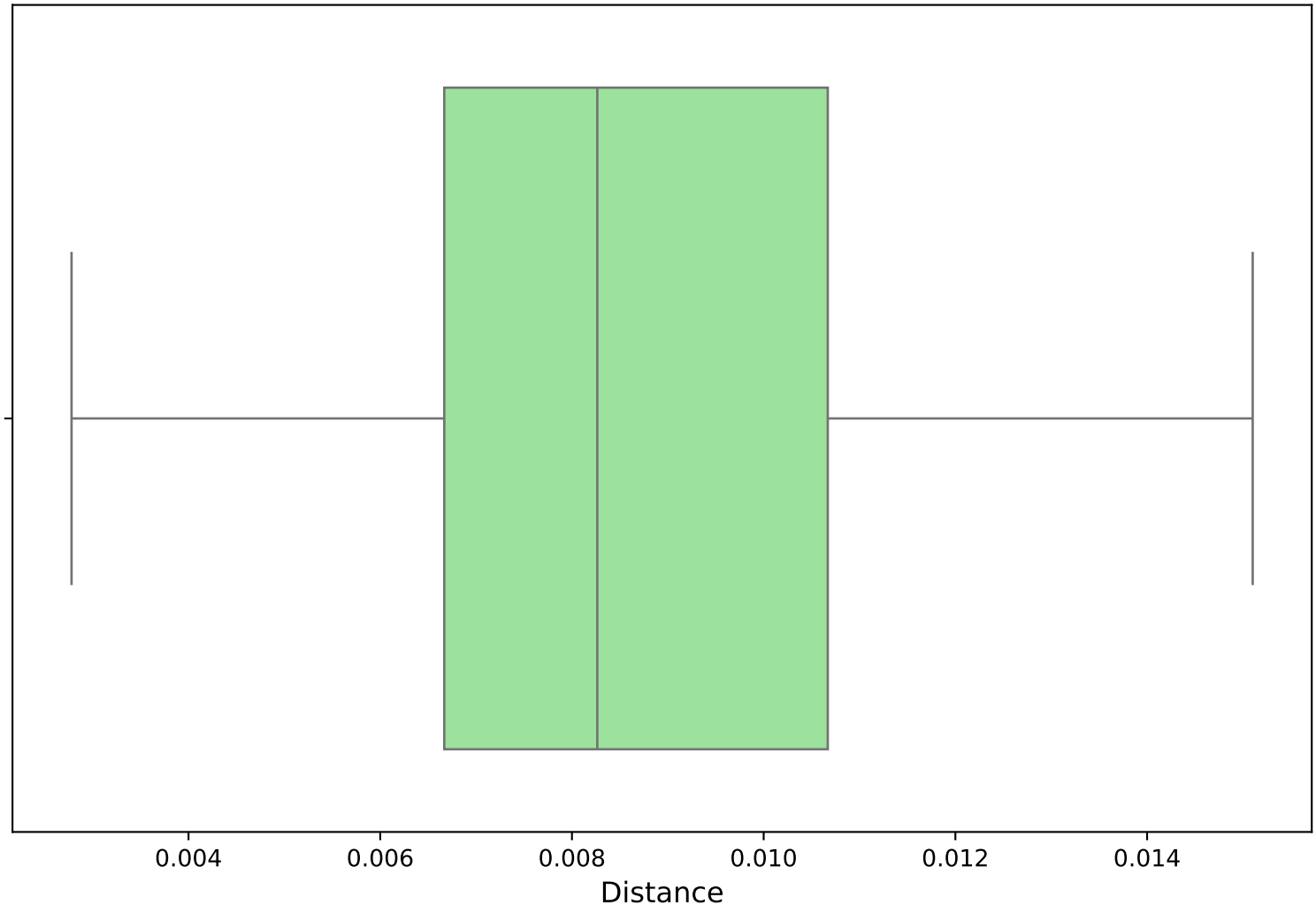
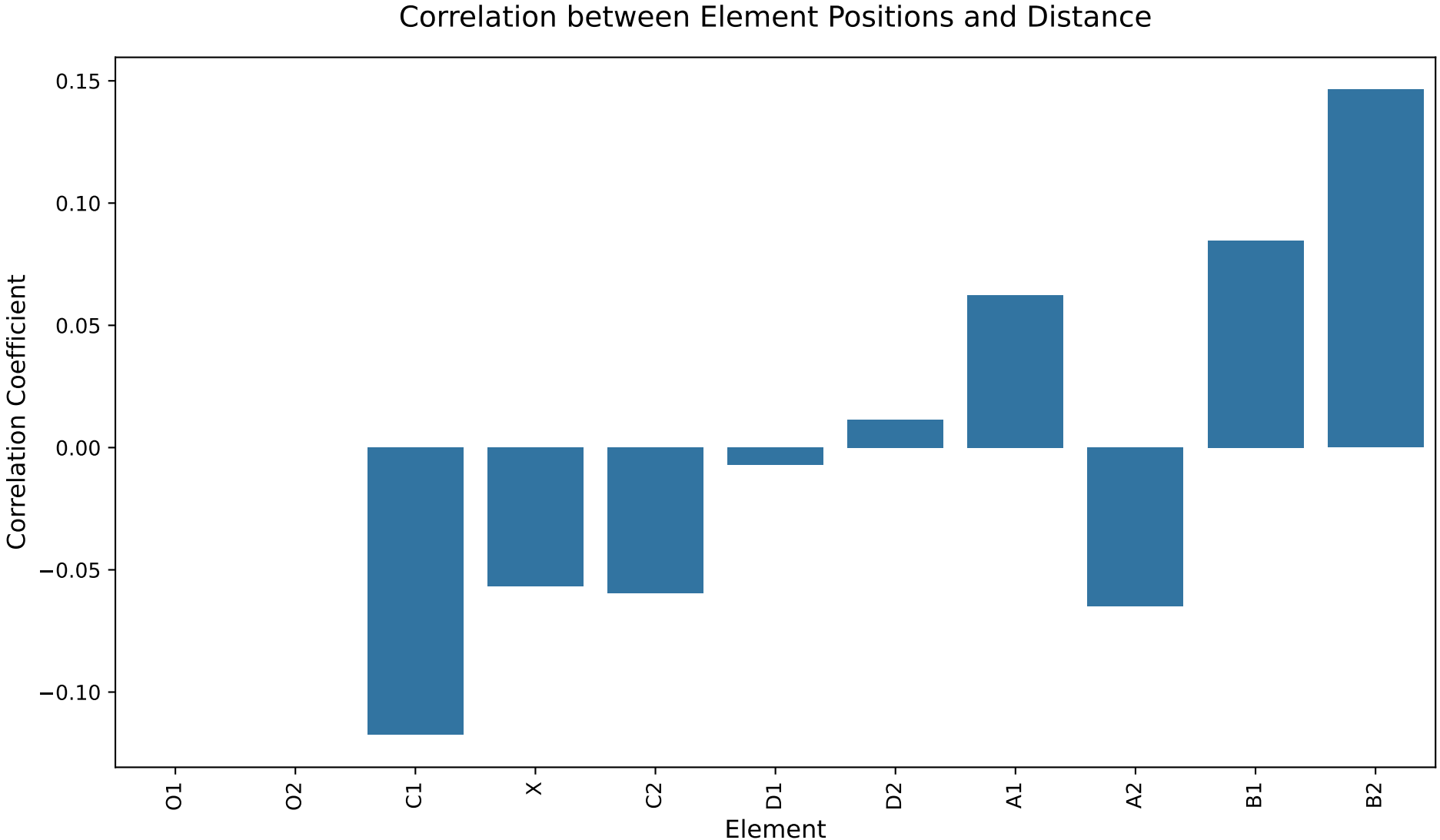
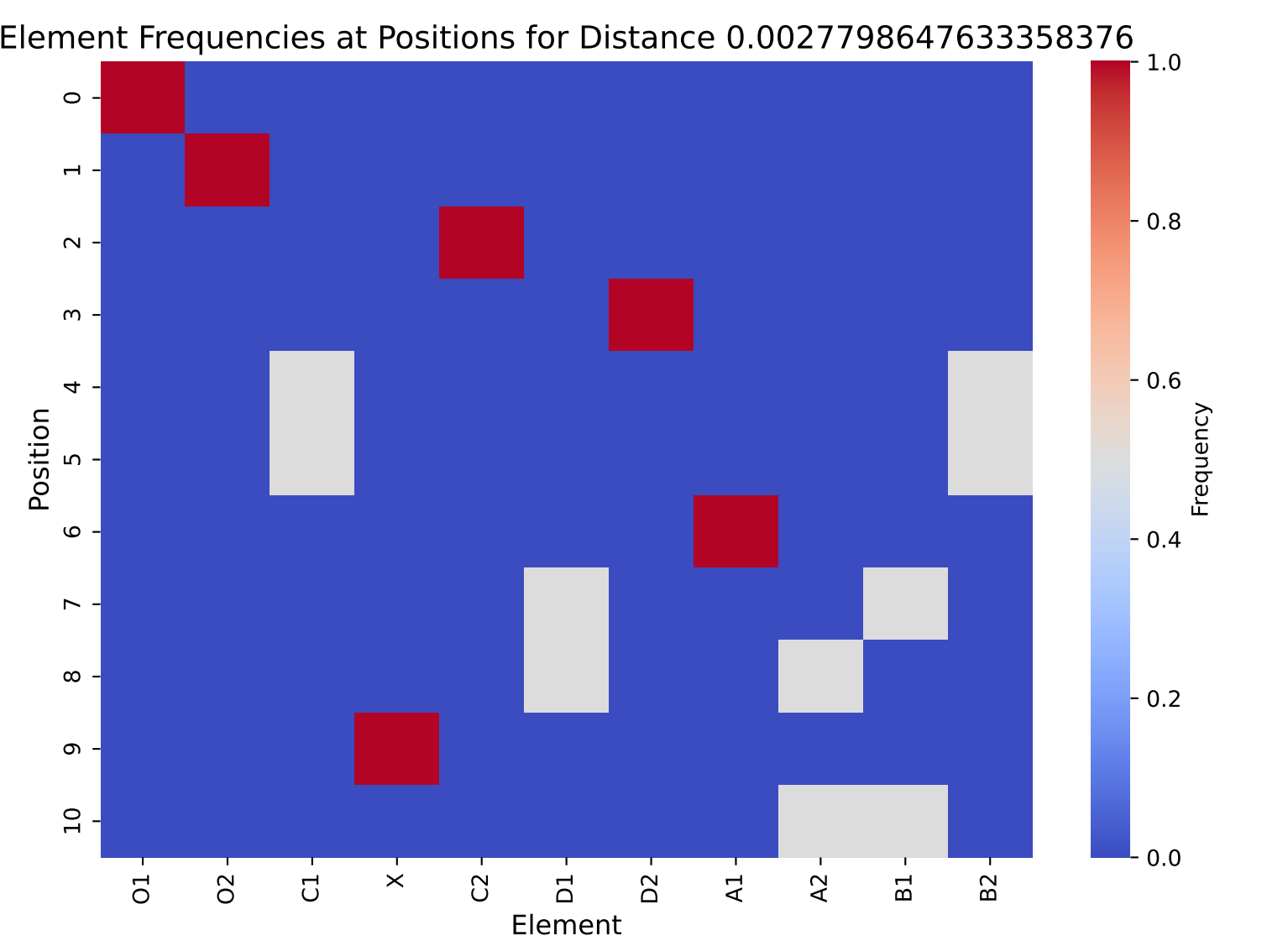


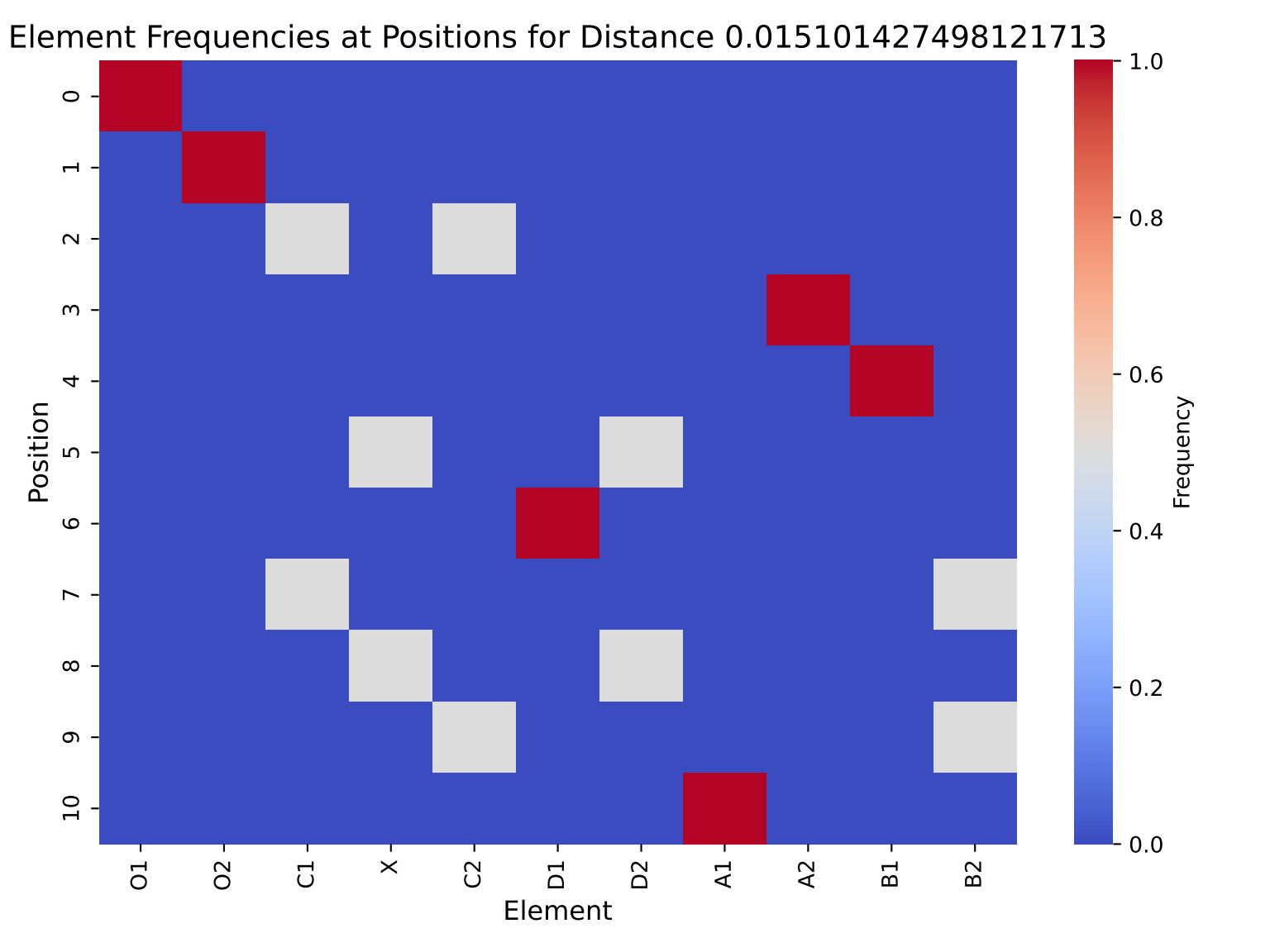
Histogram showing how distances vary across all permutations.



Boxplot illustrating the central tendency and dispersion of distances.


Correlation between Element Positions and Distance
Correlation Coefficient
0.15
0.10
0.05
0.00
−0.05
−0.10
O1
O2
C1
X
C2
D1
D2
A1
A2
B1
B2
Element


Element Frequencies at Positions for Distance 0.0027798647633358376
Position
0
1
2
3
4
5
6
7
8
9
10
Element
O1
O2
C1
X
C2
D1
D2
A1
A2
B1
B2
Frequency
1.0
0.8
0.6
0.4
0.2
0.0


Element Frequencies at Positions for Distance 0.015101427498121713
Position
0
1
2
3
4
5
6
7
8
9
10
Element
O1
O2
C1
X
C2
D1
D2
A1
A2
B1
B2
Frequency
1.0
0.8
0.6
0.4
0.2
0.0

Statistical Summary of Distances

	Value
Mean	0.008464
Median	0.008264
Standard Deviation	0.002541
Variance	0.000006
Minimum	0.002780
Maximum	0.015101

Shapiro-Wilk Normality Test Results:

Test	Statistic	p-value
Shapiro-Wilk	0.983702	3.956506e-09

This page summarizes key statistical measures of the distance data.

Permutations with Minimal Distance: 0.0027798647633358376

O1, O2, C2, D2, C1, B2, A1, D1, A2, X, B1
O1, O2, C2, D2, B2, C1, A1, B1, D1, X, A2

Permutations resulting in the minimal total distance among trees.

Permutations with Maximal Distance: 0.015101427498121713

O1, O2, C1, A2, B1, D2, D1, B2, X, C2, A1
O1, O2, C2, A2, B1, X, D1, C1, D2, B2, A1

Permutations resulting in the maximal total distance among trees.