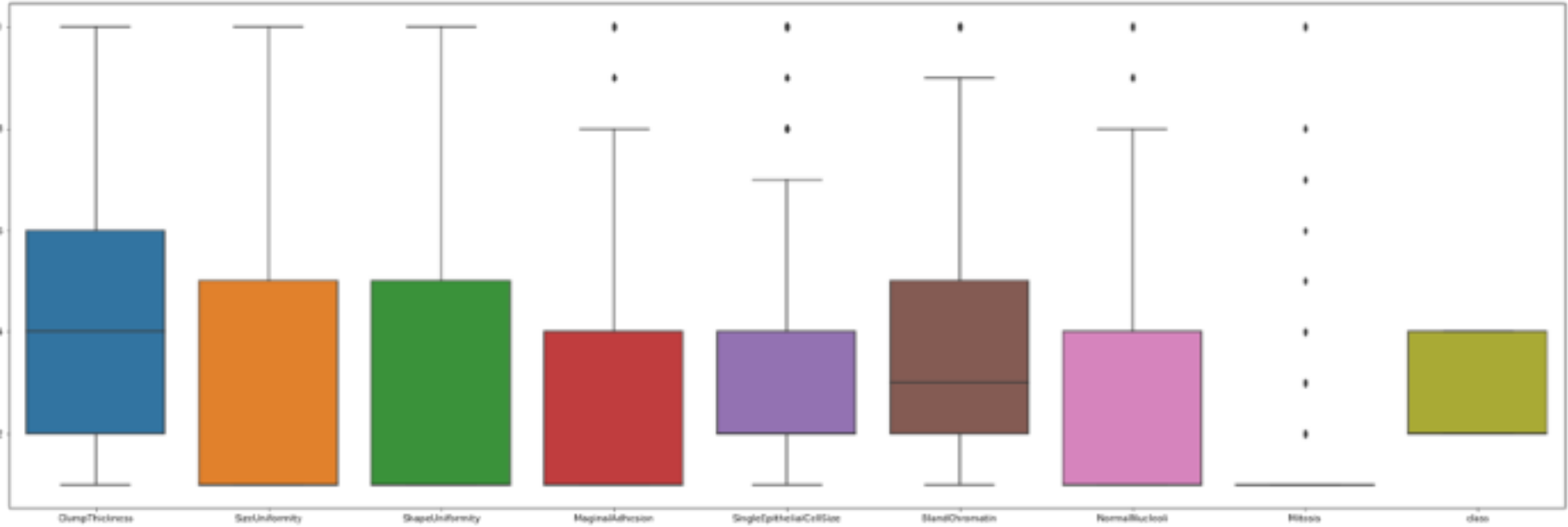


## 4.1 Descriptive Analysis



# 4.1 Chi-square Analysis

**Null Hypothesis:** Having a malignant breast cancer does not depend on each independent variable

**Alternative Hypothesis:** Having a malignant breast cancer depends on each independent variable

P-value for each independent variable

## Pearson's Chi-squared test

```
data: tbl1
X-squared = 378.08, df = 9, p-value < 0.00000000000000022

data: tbl2
X-squared = 539.79, df = 9, p-value < 0.00000000000000022

data: tbl3
X-squared = 523.07, df = 9, p-value < 0.00000000000000022

data: tbl4
X-squared = 390.06, df = 9, p-value < 0.00000000000000022

data: tbl5
X-squared = 447.86, df = 9, p-value < 0.00000000000000022
```

## Pearson's Chi-squared test

```
data: tbl6
X-squared = 489.01, df = 9, p-value < 0.00000000000000022

data: tbl7
X-squared = 453.21, df = 9, p-value < 0.00000000000000022

data: tbl8
X-squared = 416.63, df = 9, p-value < 0.00000000000000022

data: tbl9
X-squared = 191.97, df = 8, p-value < 0.00000000000000022
```