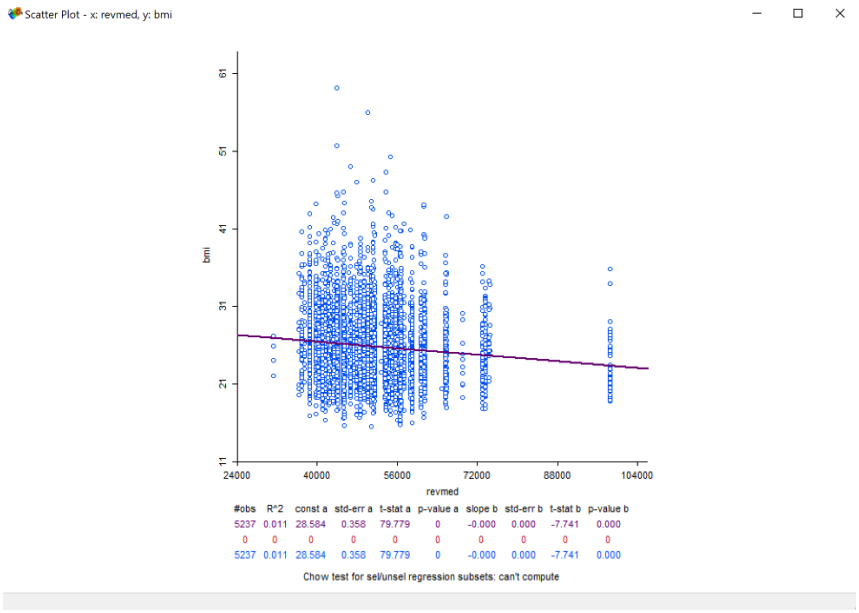
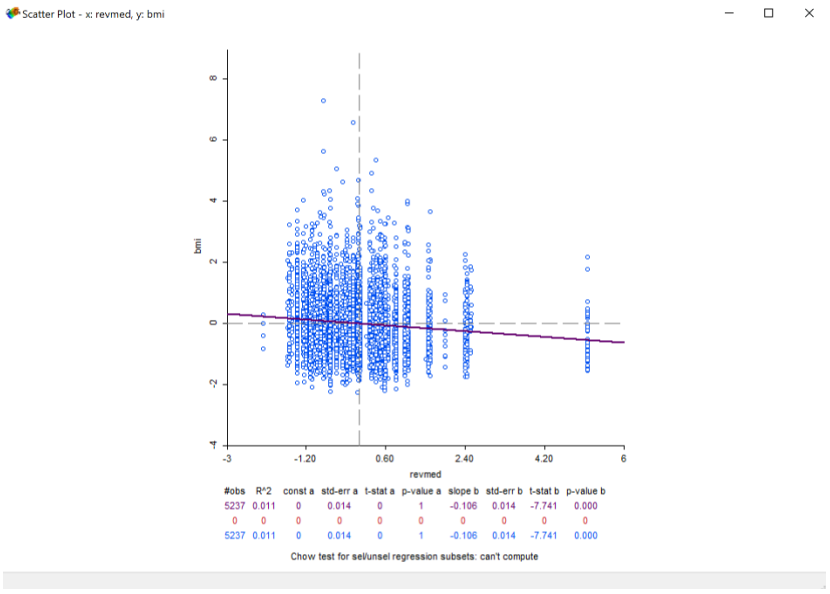
# Exercise 5

# Confounding factors & variable adjustment Solution

1.Produce a scatterplot of the relationship between BMI (y) and the median income (x); copy the scatterplot and paste it in a ms-word document

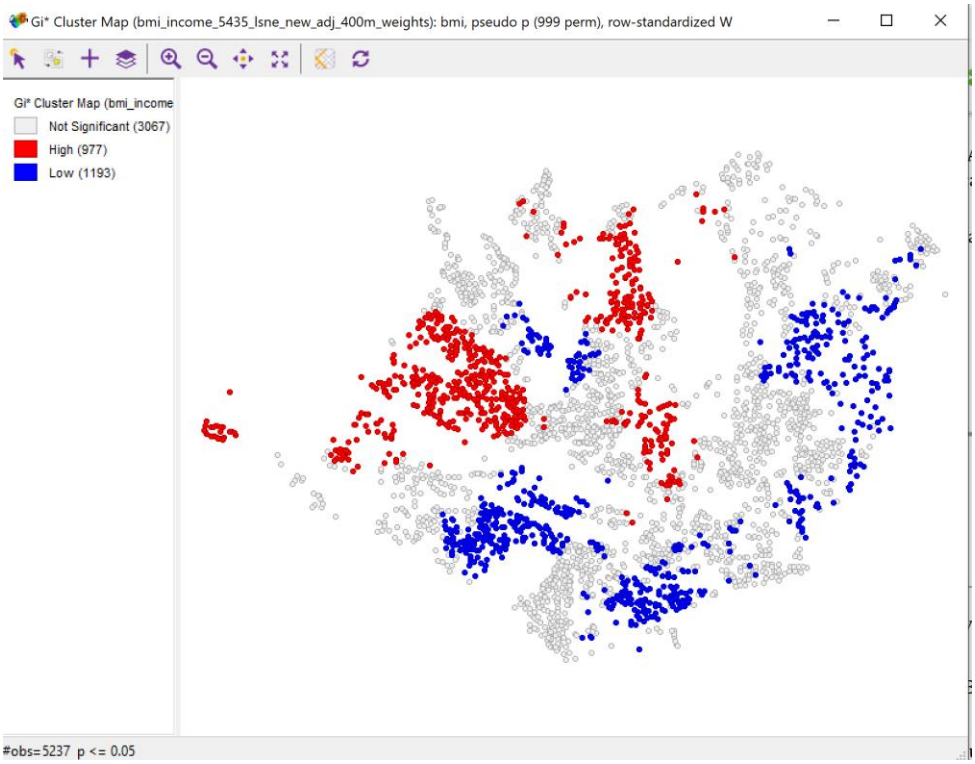



*Scatter plot on raw values*

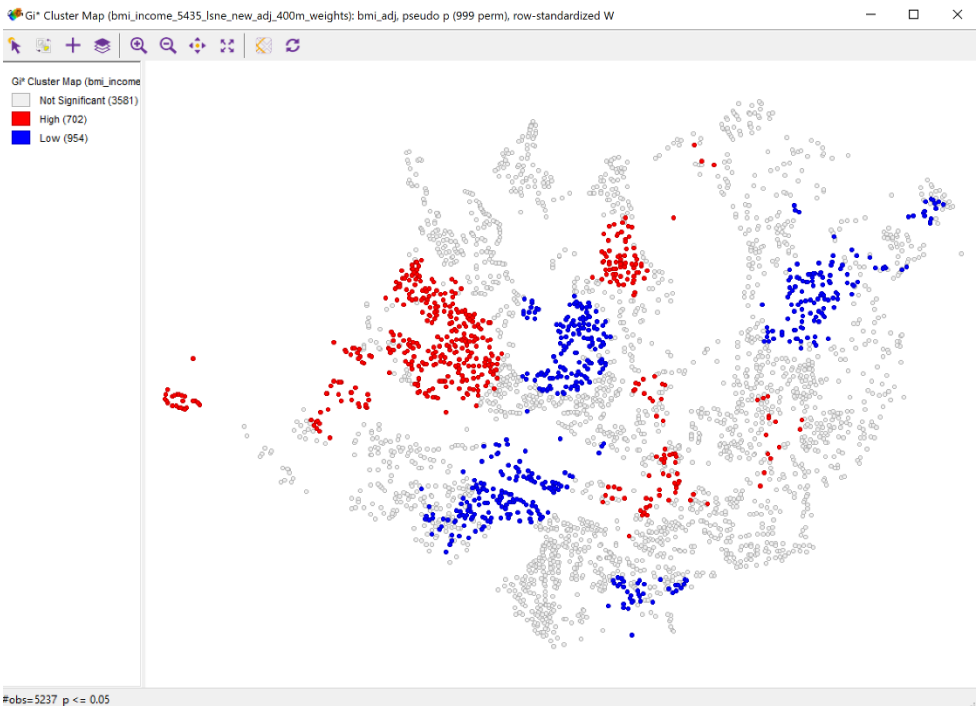



*Scatter plot, on standardized values*

5. Process the Getis-Ord Gi* statistics (weight row-standardized) for the raw BMI variable




*Getis-ord Gi* BMI non-adjusted*




*Getis-ord Gi* BMI adjusted for median income*

9. We can observe smaller clusters (see the number of individuals within spatial autocorrelation classes), while the neutral class increases. Eastern and South-Eastern cold spots mainly disappear when adjusting for median income. A larger cold spot appears downtown.