Chi-Square Test

Step-1: Define the hypothesis for uniformity.

$$H_0 = R_i \sim U(0,1)$$
 [R_i = Random]
 $H_1 = R_i \sim U(0,1)$

Step-2: Devide the total no's of observations N into mutually exclusive equal numbered classes n, $N \rightarrow E_i \ge 5$

Step-3: Test Stats,

$$\chi^2 = \sum_{i=0}$$

Step-4: Determine Critical value given LOS with (n-1).

Step-5: $\chi^2 > \chi^2 \rightarrow H_0$ rejected.

Else no difference between detected sample distribution & uniform distribution.