

## 3.2 Precision

### 3.2.1 System Precision

The purpose of system precision is to find the degree of agreement between individual test results when the procedure is applied repeatedly to multiple injections (10 injections) of the same homogenous sample in 100% concentration, as in Table (7).

**Table 7 : System Precision Test Results**

<b>Parameters</b>	<b>Esomeprasole</b>	<b>Tadalafil</b>
<b>Conc. %</b>	100%	100%
<b>Average Area of 10 injections</b>	1329442	1086961
<b>RSD%</b>	1.85	1.83
<b>Asymmetry (USP)</b>	1.15	1.08
<b>Resolution</b>	N.A	5.24
<b>Theoretical Plates (USP)</b>	14272	15427
<b>Initial Retention time</b>	3.183	3.773
<b>Final Retention time</b>	3.184	3.788

As seen from the given results, RSD% value were below 2% (according to USP), indicates a good system suitability, and the chromatogram of system precision is shown in figure (6).