**Repeatability Coefficients**

\mbox{Repeatability Coefficient} = 1.96 \sqrt{2}\sigma_{e}\\` \sqrt{2} \times 1.96 =2.77

\sigma^2_{e} is the within-subject variance of the 'established' method. [Roy’s notation]

\sigma^2_{n} is the within-subject variance of the 'new' method. [Roy’s notation]

S_w\mbox{ }: Within-subject standard deviation [Bland Altman’s notation]

\sqrt{2} \times 1.96 =2.77

S^J_{w} = \sqrt{37.408}  = 6.116

CR^J = 2.77 \times 6.116 \mbox{ mmHg}  = 16.95\mbox{ mmHg}

S^S_{w} = \sqrt{83.141}  = 9.118

CR^S = 2.77 \times 9.118 \mbox{ mmHg}  = 25.27\mbox{ mmHg}

**Roy’s Paper**

The Repeatability coefficient of J is 16.9532 mmHg

The Repeatability coefficient of S is 25.2743 mmHg

Repeatability of Machine S is 49% more than repeatability of observer J