Horwitz equation and plot

\[ S_{\text{target}} = 2^{(1 - 0.5 \log C)} \]

Horwitz ratio (HORRAT)

\[ \text{HORRAT} = \frac{RSD_{\text{Actual}}}{RSD_{\text{Horwitz}}} \]

- HORRAT is used for evaluating whether an ILC has been successful or not
- Evaluation:
  \[ \text{HORRAT} < 2: \text{OK} \]
  \[ \text{HORRAT} > 2: \text{Problems} \]
- Possible problems:
  - Samples too different or unstable
  - Laboratories very inexperienced
  - Procedures used by laboratories are not suitable