Sensibilidades:

$$\omega_0 = \frac{1}{R_3 C} \qquad Q = \frac{R_2}{R_3} \qquad \frac{\omega_0}{Q} = \frac{1}{R_2 C}$$

$$S_C^{\omega_0} = \frac{C}{\omega_0} \frac{\partial \omega_0}{\partial C} = \frac{\cancel{C}}{\omega_0} \cdot \frac{1}{R_3} (-1) \cdot \frac{1}{\cancel{C^2}}$$

$$S_C^{\omega_0} = -\frac{1}{R_3 C \omega_0} = -\frac{1}{\cancel{R_3 C} \cdot \frac{1}{\cancel{R_3 C}}} = \boxed{-1}$$

$$S_{R_2}^{Q} = \frac{R_2}{Q} \cdot \frac{\partial Q}{\partial R_2} = \frac{R_2}{Q} \frac{1}{R_3} = \frac{R_2}{\frac{R_2}{\cancel{R_3}} \cancel{R_3}} = \boxed{1}$$

$$S_{R_3}^{Q} = \frac{R_3}{Q} \frac{\partial Q}{\partial R_3} = \frac{\cancel{R_3}}{Q} R_2 (-1) \cdot \frac{1}{\cancel{R_3^2}} = -\frac{R_2}{Q R_3}$$

$$S_{R_1}^{Q} = -\frac{R_2}{\frac{R_2}{\cancel{R_3}} \cancel{R_3}} = \boxed{-1}$$