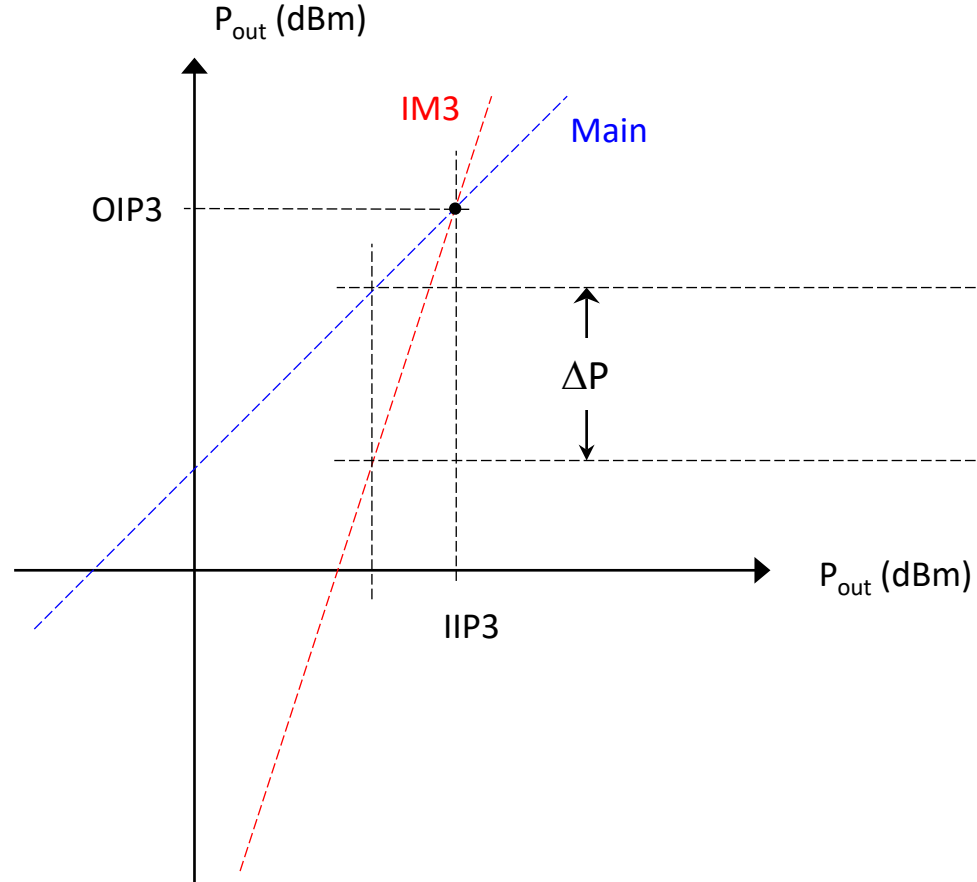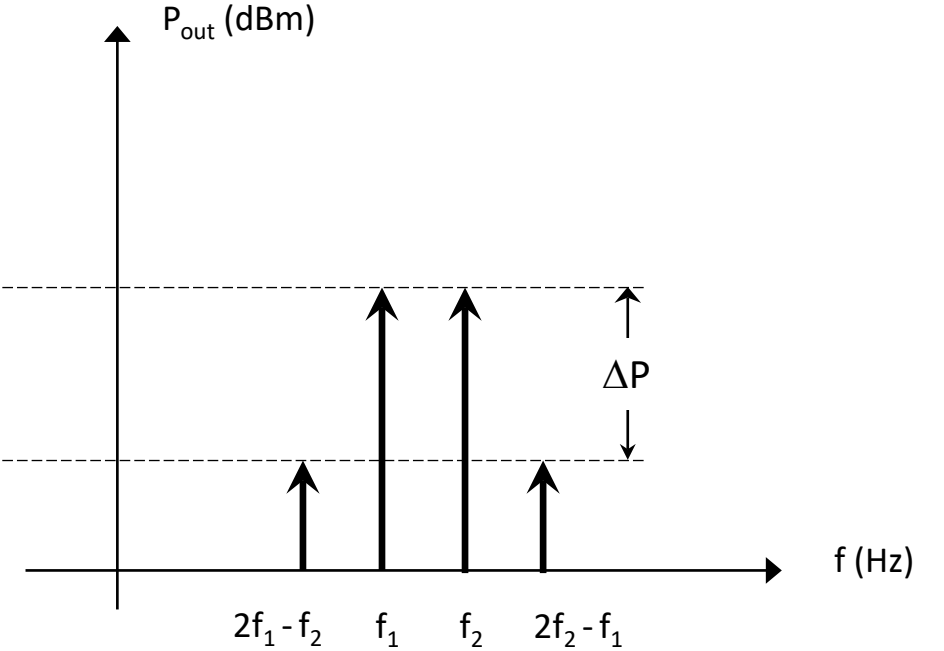**Input-output characteristic**

Two-tone test

$$\Delta P \approx 20 \log_{10}(|x_1|) - 20 \log_{10}(|x_3|) = -20 \log_{10}(|x_3|/|x_1|) = -10 \log_{10}(\text{THD})$$

$$\text{THD} \approx 10^{-\Delta P/10}$$