How to determine concentration of an impurity in HPLC with the relative response factor RRF – How to

The concentration can be calculated once you have values for the following two equations:

Response Factor (RF) = Peak Area / Concentration

Relative **Response Factor** (RRF) = $RF_{impurity}$ / RF_{API}

You can use RRF and RF_{API} to solve for $RF_{impurity}$. Then you can use the measured peak area of the impurity to solve for its concentration.