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:

$$\text{Response Factor (RF)} = \text{Peak Area} / \text{Concentration}$$

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

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.

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