

$$\text{HAP}_{\text{wt}\%} = 100 \times \frac{(A_x)(W_{\text{is}})}{(A_{\text{is}})(\overline{\text{RRF}}_x)(W_x)} \quad \text{Eq. (1)}$$

where:

$\text{HAP}_{\text{wt}\%}$ = weight percent of the analyte in coating.

A_x = Area response of the analyte in the sample.

W_{is} = Weight of internal standard added to sample, g.

A_{is} = Area response of the internal standard in the sample.

$\overline{\text{RRF}}_x$ = Mean relative response factor for the analyte in the calibration standards.

W_x = Weight of coating added to the sample solution, g.