$$[\mathrm{NO_2}]_{\mathrm{OUT}} = [\mathrm{NO}]_{\mathrm{orig}} - [\mathrm{NO}]_{\mathrm{rem}} + \frac{F_{NO} \times [\mathrm{NO_2}]_{\mathrm{IMP}}}{F_{NO} + F_O + F_D} \tag{13}$$