Scalar | Vector

$$
\underbrace{\begin{bmatrix} y_j^{(1)} \\ \vdots \\ y_j^{(s)} \end{bmatrix}}_{\mathbb{F}_{q_s}^{s}} = \underbrace{\underset{=j}{A}}_{\mathbb{F}_{q_s}^{s\times h}} \cdot \underbrace{\begin{bmatrix} x_1 \\ \vdots \\ x_h \end{bmatrix}}_{\mathbb{F}_{q_s}^{h}}
\qquad\Bigg|\qquad
\underbrace{\begin{bmatrix} \underline{y}_j^{(1)} \\ \vdots \\ \underline{y}_j^{(s)} \end{bmatrix}}_{\mathbb{F}_{q}^{st}} = \underbrace{\underset{=j}{A}}_{\mathbb{F}_{q}^{st\times th}} \cdot \underbrace{\begin{bmatrix} \underline{x}_1 \\ \vdots \\ \underline{x}_h \end{bmatrix}}_{\mathbb{F}_{q}^{th}}
$$

1