

## Supplementary materials

### 5.1 Zero-shot prompts for density

Table 1. Zero-shot prompts for classifying density

Prompts
1.the breasts being almost entirely fatty, 2. scattered areas of fibroglandular density, 3. the breast tissue is heterogeneously dense, 4. the breasts are extremely dense

### 5.2 Prompts to synthesize report-like sentences from attributes in image-mammographic attribute dataset

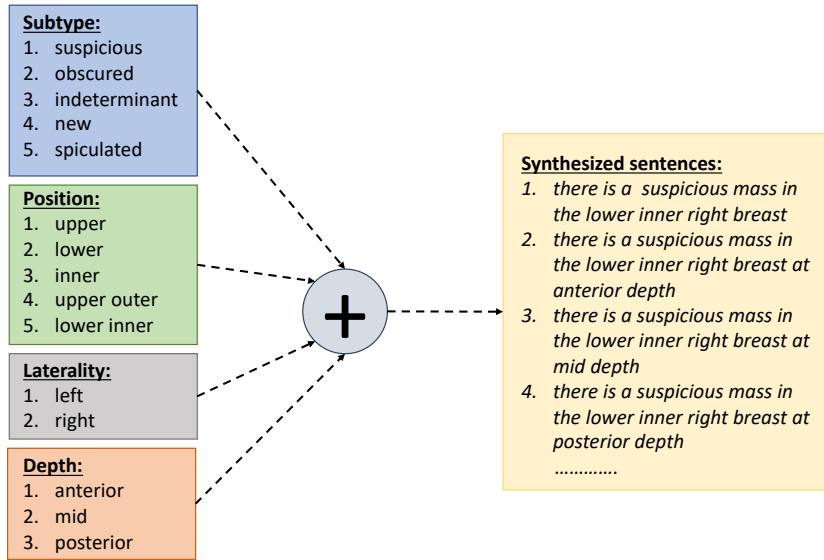
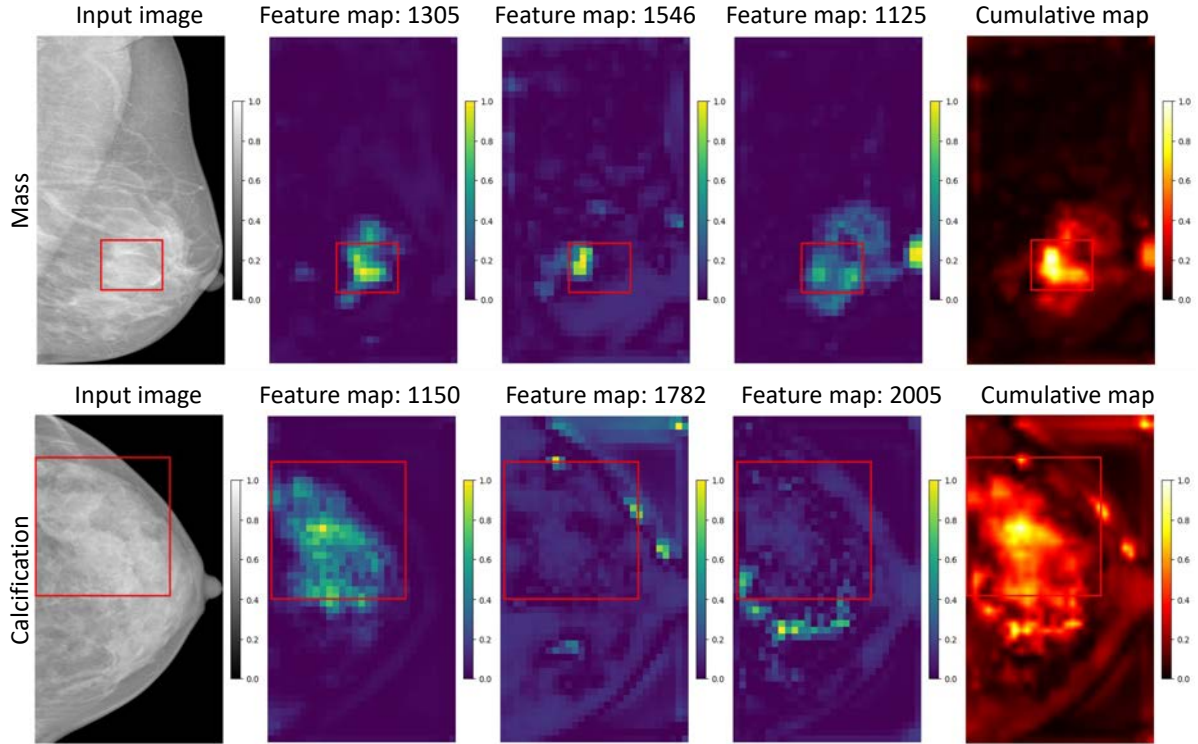


Fig. 1. Example of report-like sentence generation for the attribute *mass* labeled positively in the VinDr dataset using the subtypes of mass and position, laterality, and depth of the breast. We include all such prompts in our codebase in details.

### 5.3 Visualization of activation maps identified by Mammo-FActOR



**Fig. 2.** Visualization of activation maps identified by Mammo-FActOR to localize mass and calcification attributes via report. For each row, the left image is the original image. The middle three denote top-3 (left to right) activation maps with the respective unit number. The right one indicates the summation of the top-3 feature maps. We show the ground-truth bounding boxes with the red rectangle. Notably, the optimal feature map identified by Mammo-FActOR (Feature map unit 1305 for mass and 1150 for calcification) successfully localizes the attributes.