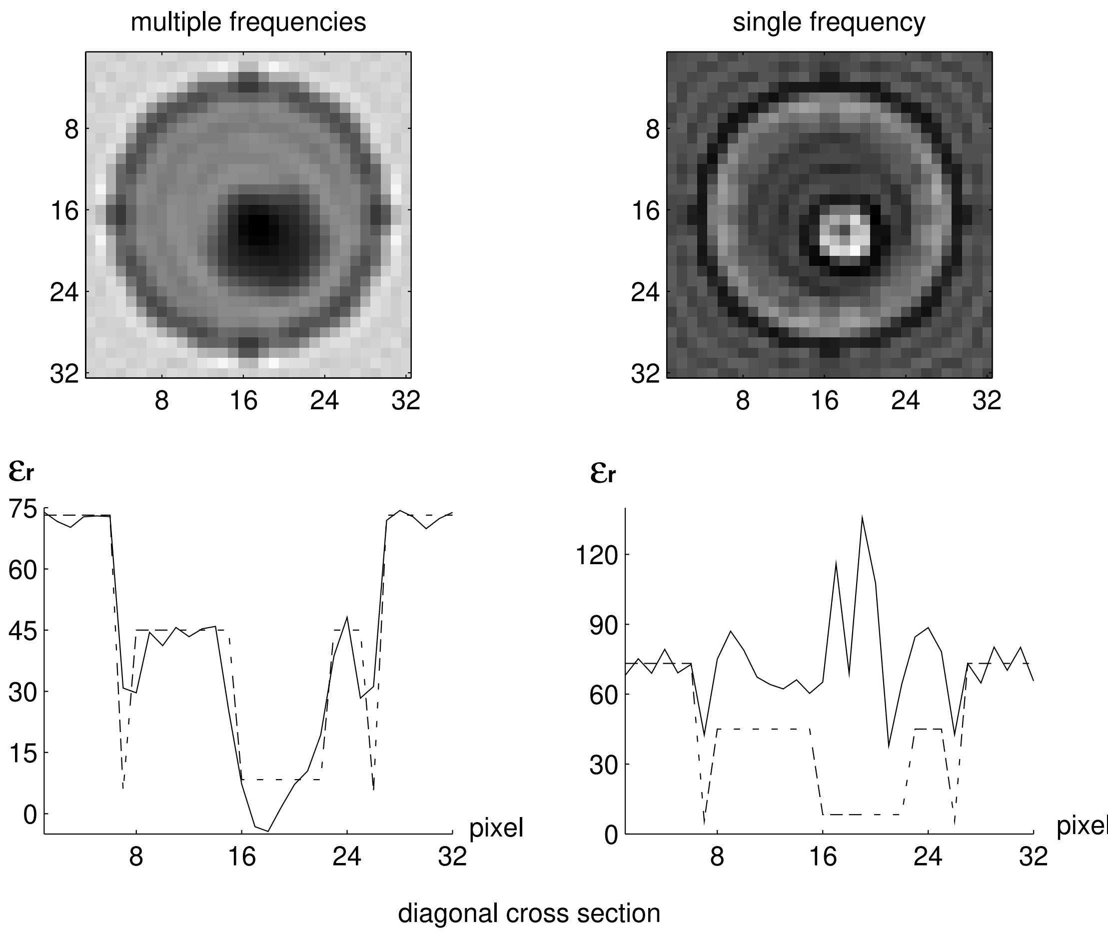

Figure 1. The comparison of the reconstructions (image and profile of the real part of the permittivity) from (left) the frequency hopping approach where data at three frequencies (1, 2, and 3 GHz) are used, with (right) the monochromatic case where only the 3 GHz data is used. The reconstructed area is $5.56\lambda_w \times 5.56\lambda_w$, where λ_w is the wavelength in water.

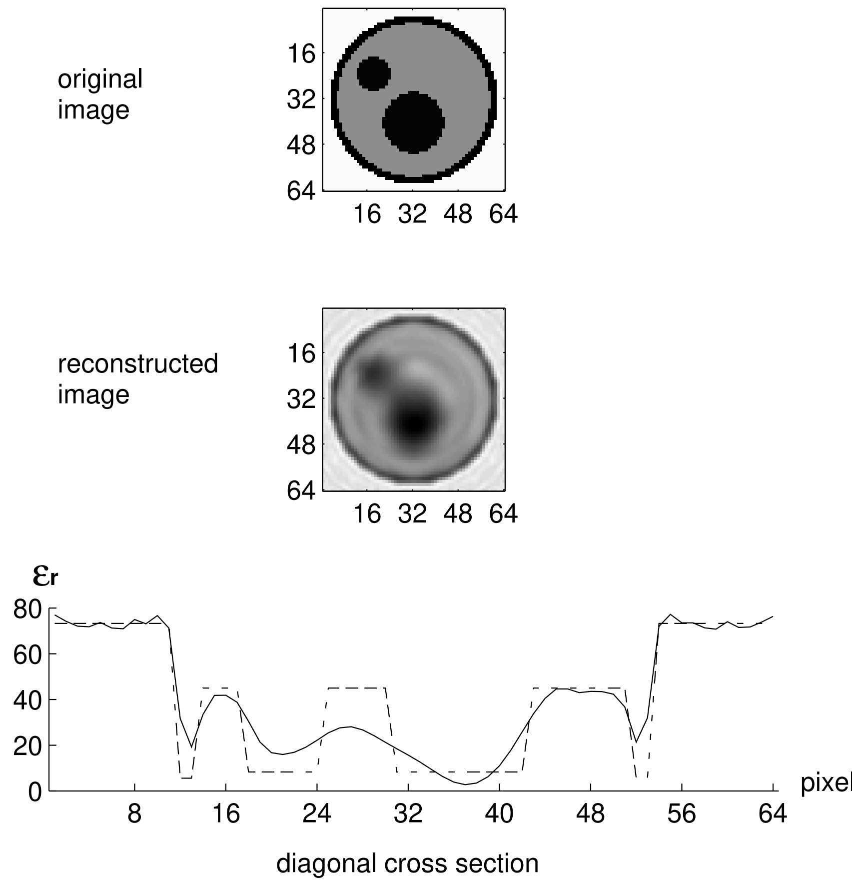

Figure 2. The reconstruction of the real part of the permittivity for an object resembling a human arm model using the frequency-hopping approach where the frequencies used are 0.5, 0.9, 1.65 and 3 GHz. The reconstructed area is $10.2\lambda_w \times 10.2\lambda_w$.