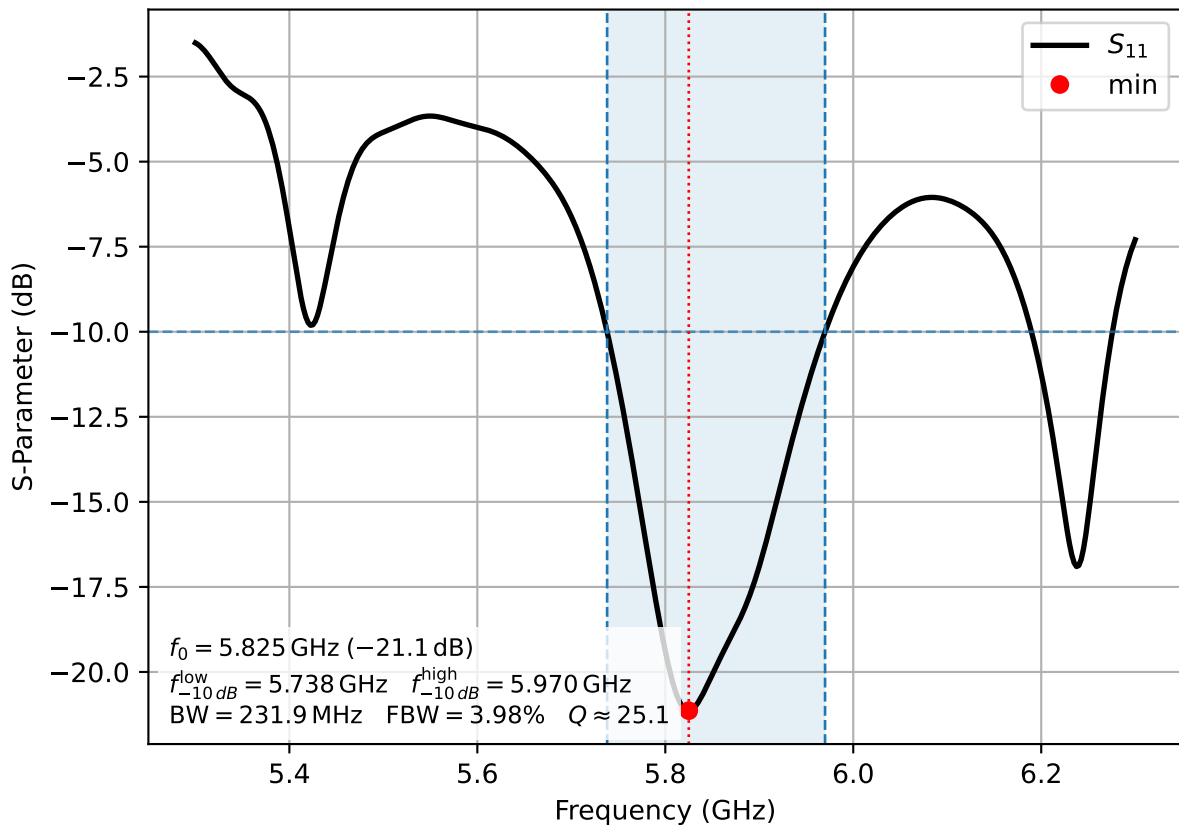


# Reflection Coefficient $S_{11}$

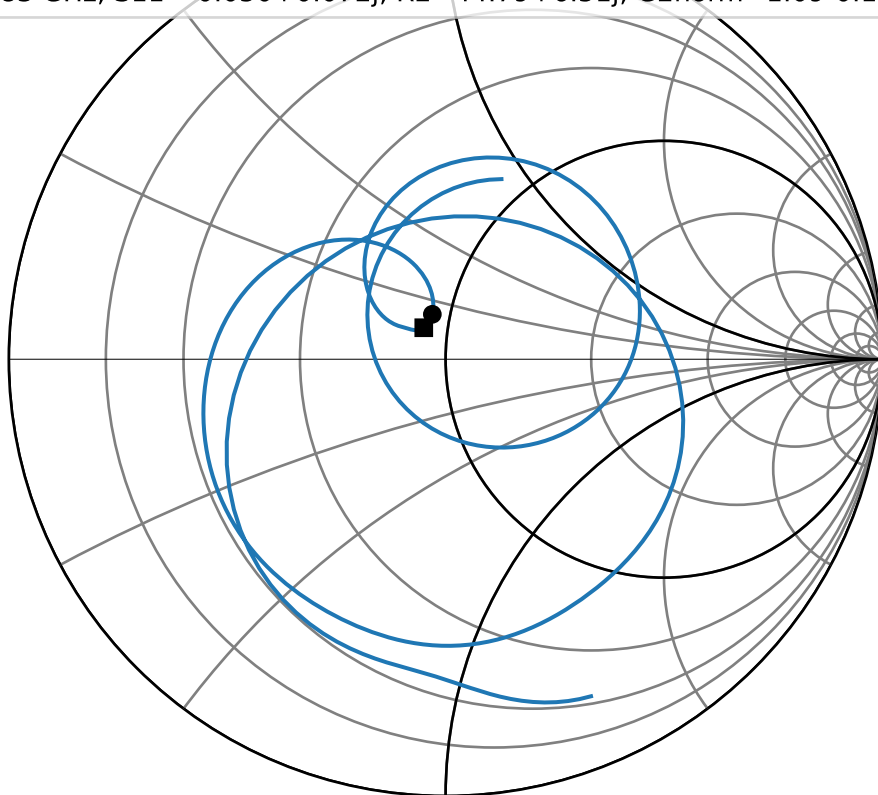


# Smith Chart

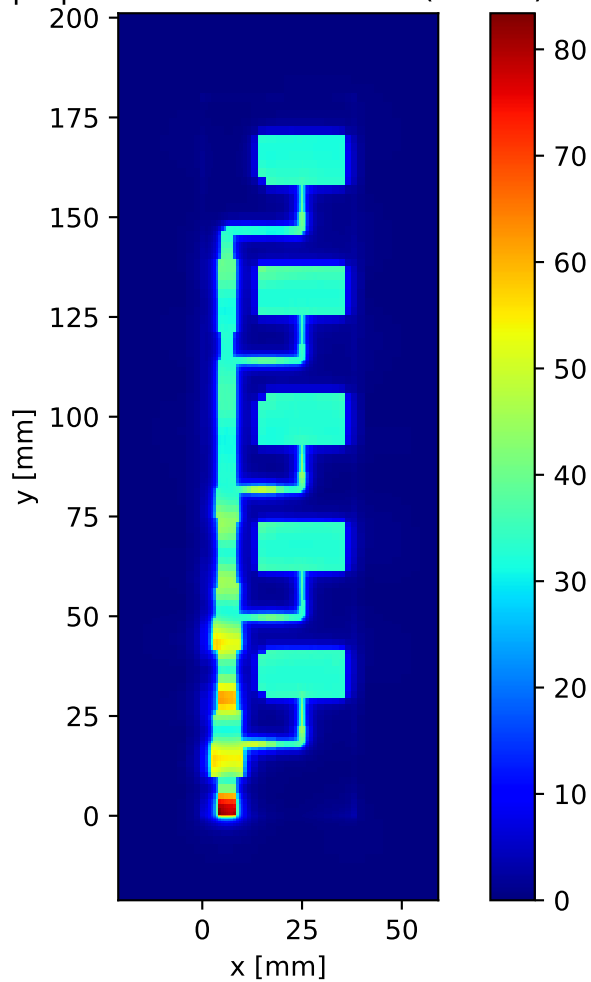
— S11 (Patch W=20.10 mm, L=10.70 mm)

● 5.80 GHz,  $S_{11} = -0.030 + 0.103j$ ,  $R = 46.10 + 9.59j$ ,  $G_{\text{norm}} = 1.04 - 0.22j$

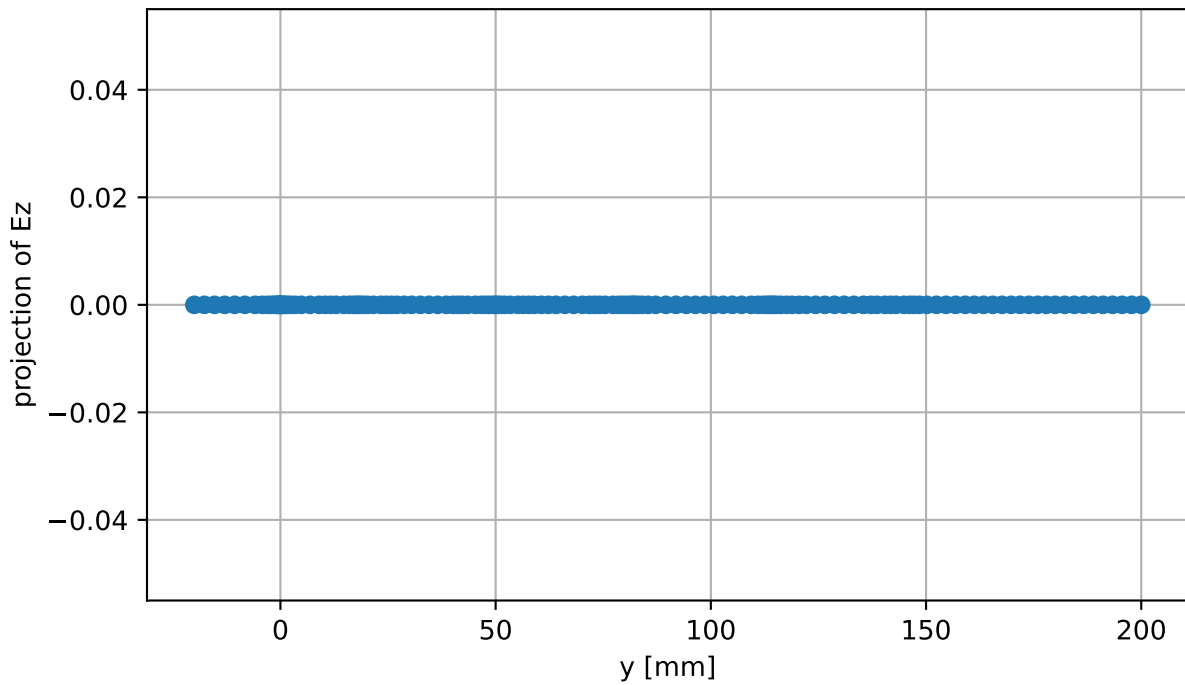
■ 5.83 GHz,  $S_{11} = -0.050 + 0.072j$ ,  $R_2 = 44.79 + 6.51j$ ,  $G_{2\text{norm}} = 1.09 - 0.16j$



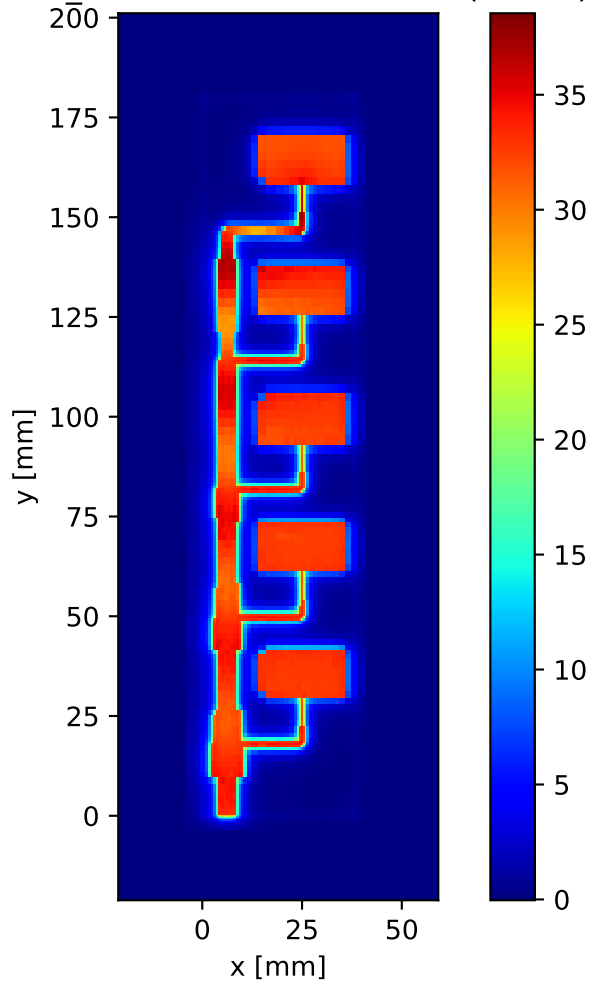
$|E_z|$  slice at  $z = 0.76$  mm (idx 10)



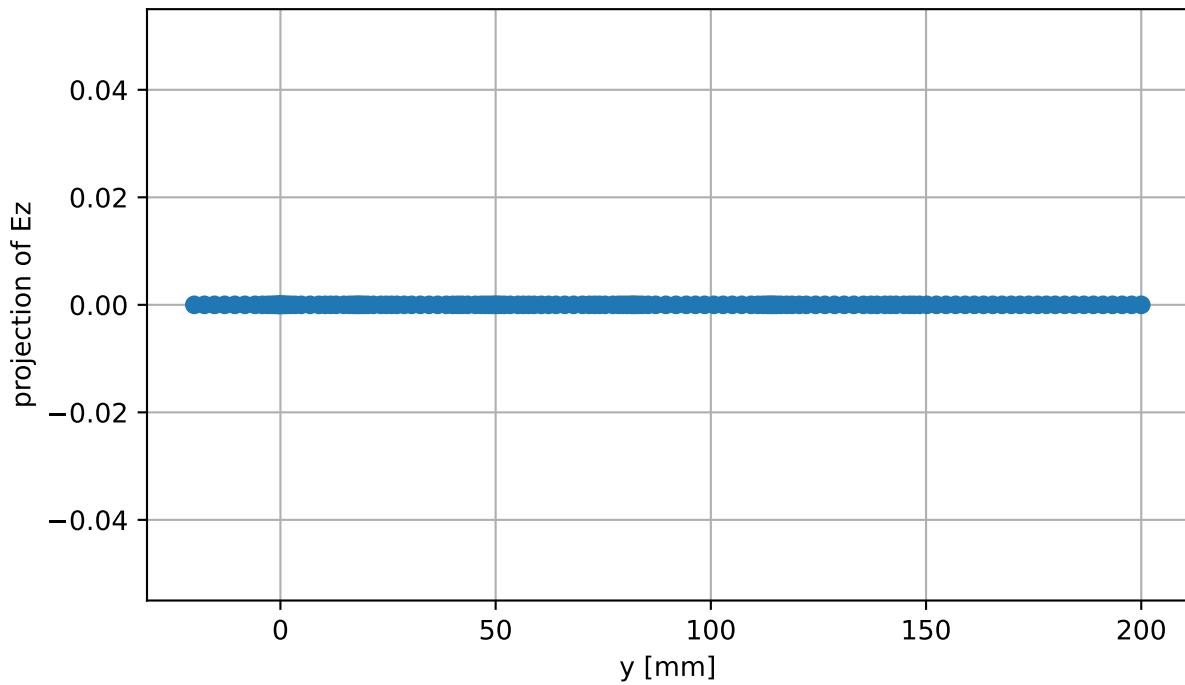
$|E_z|$  line cut along Y at  $x=58.00$  mm,  $z=0.76$  mm  
(idx  $x=59$ ,  $z=10$ )



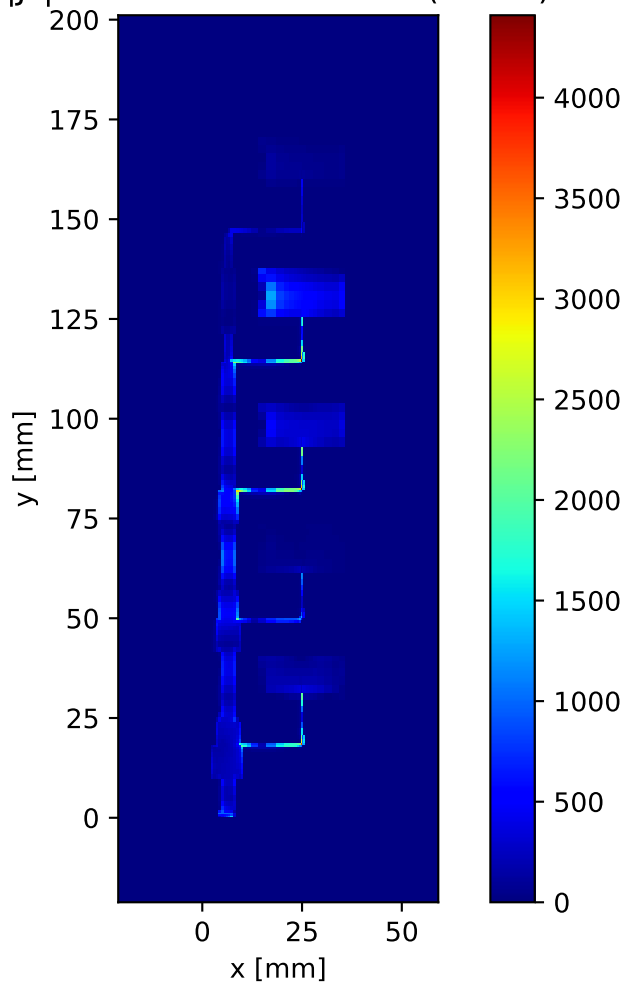
Real E<sub>fd</sub> slice at z = 0.76 mm (idx 10)



Real E\_fd line cut along Y at x=58.00 mm, z=0.76 mm  
(idx x=59, z=10)

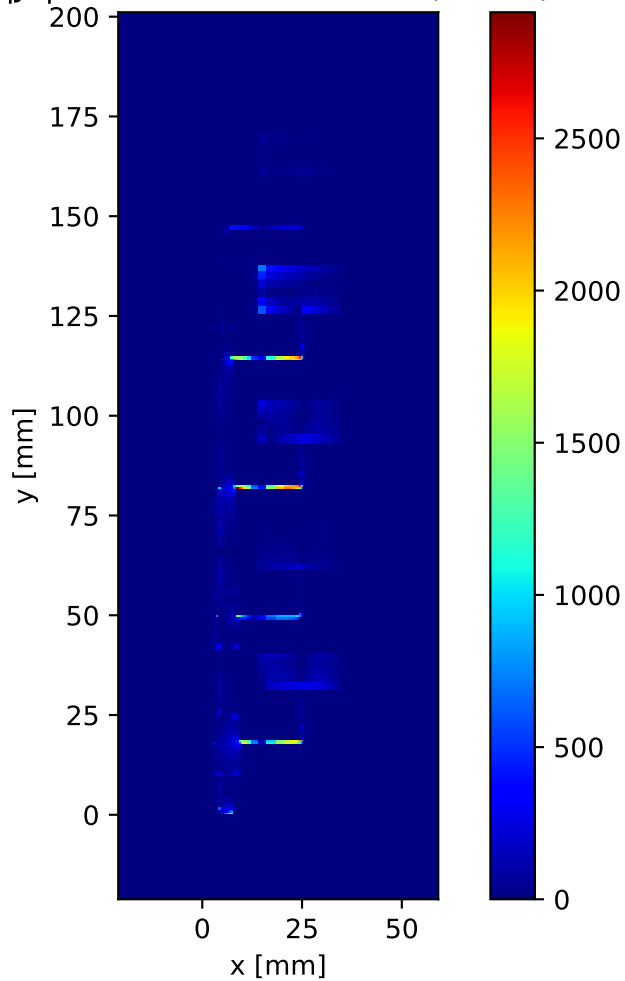


$|J_s|$  slice at  $z = 1.525$  mm (idx 12)

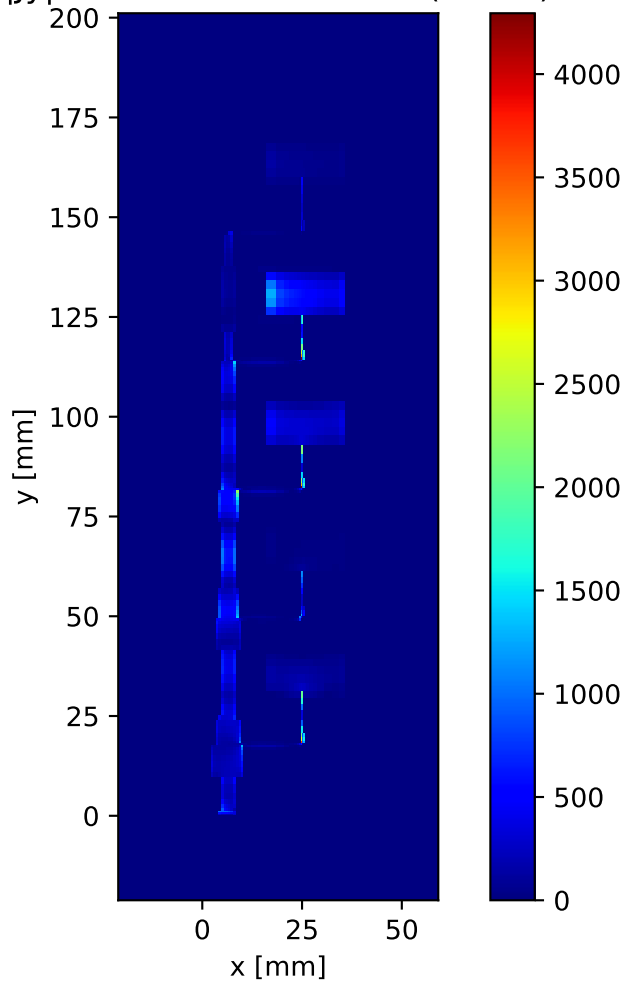




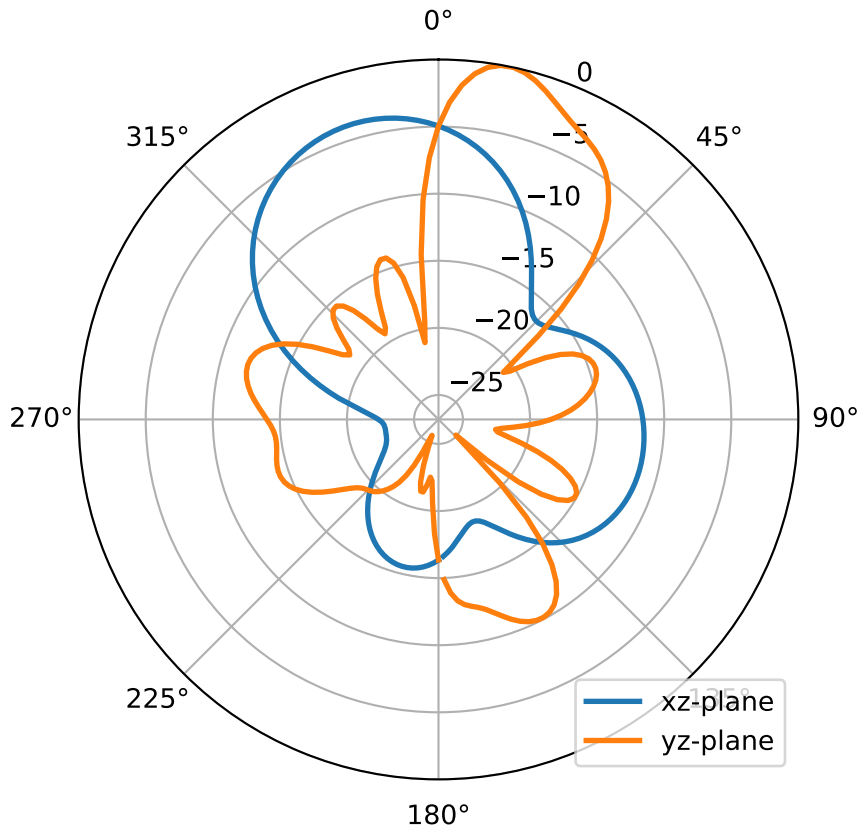
$|J_x|$  slice at  $z = 1.525$  mm (idx 12)



$|j_y|$  slice at  $z = 1.525$  mm (idx 12)



Frequency: 5.800 GHz — Directivity (dB). Dmax: -13.814dB



Frequency: 5.800 GHz

