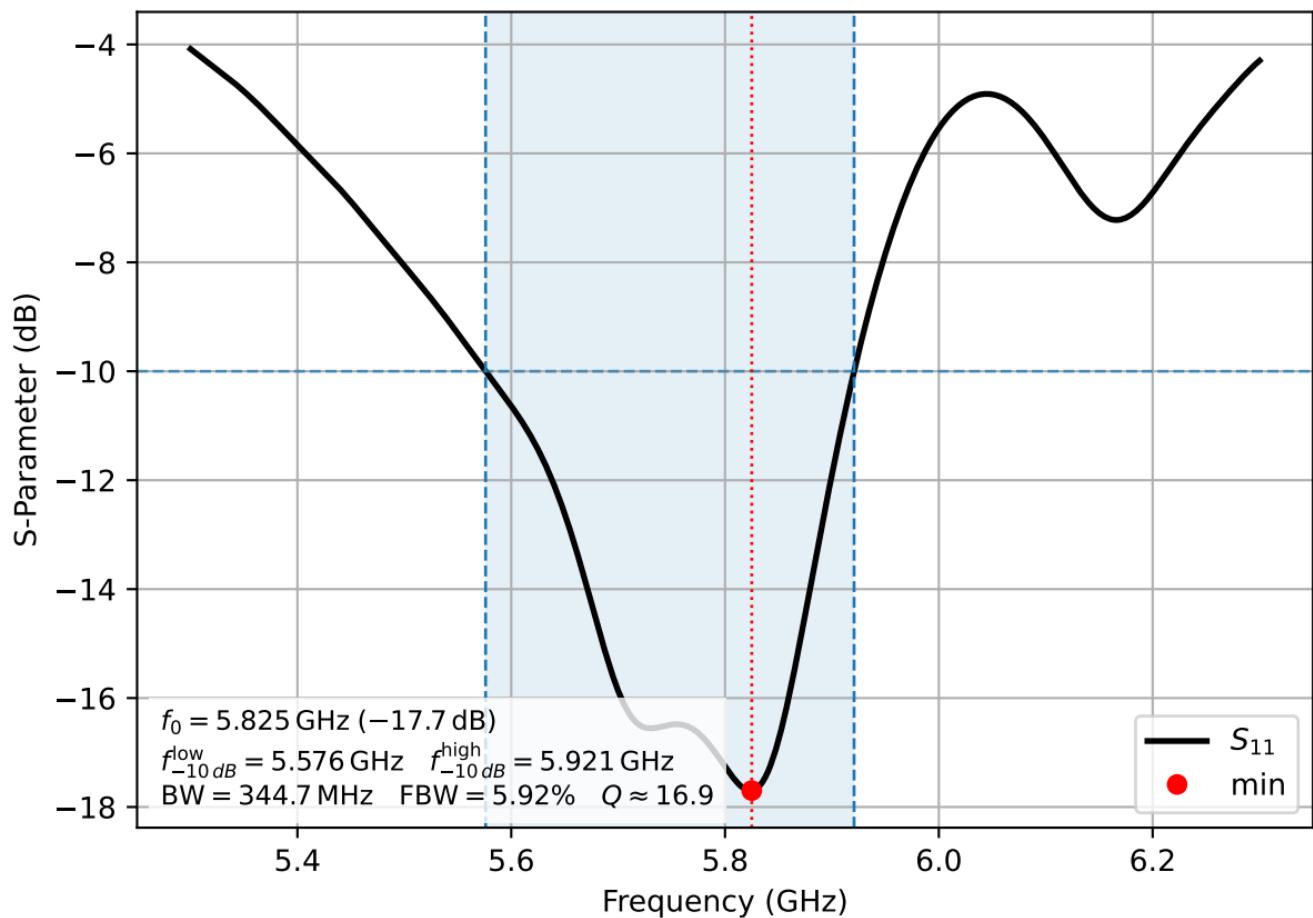
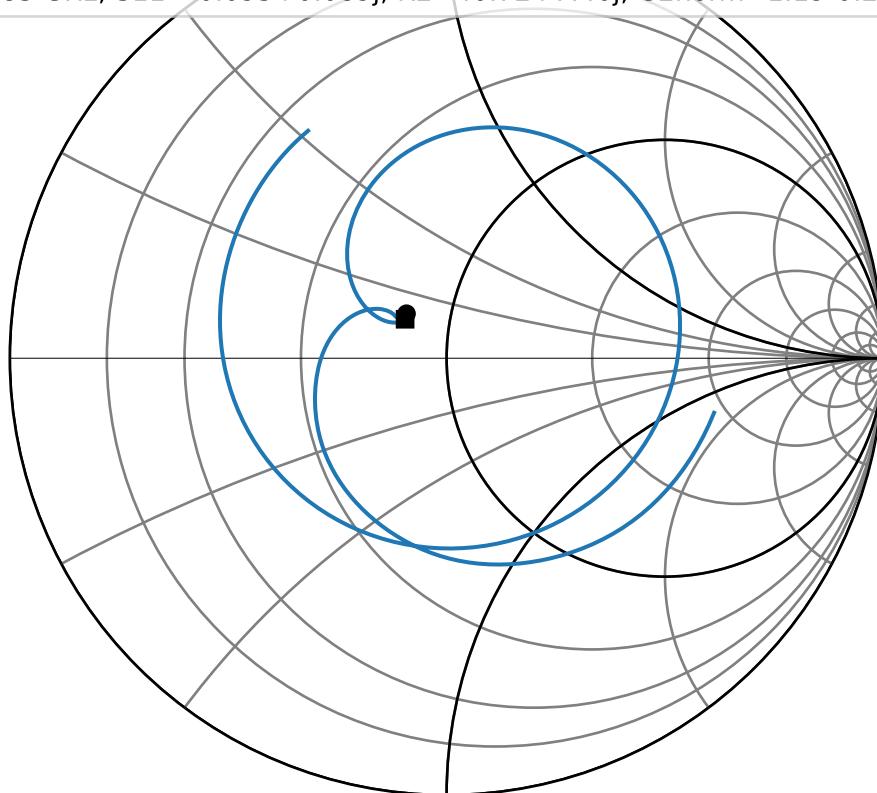


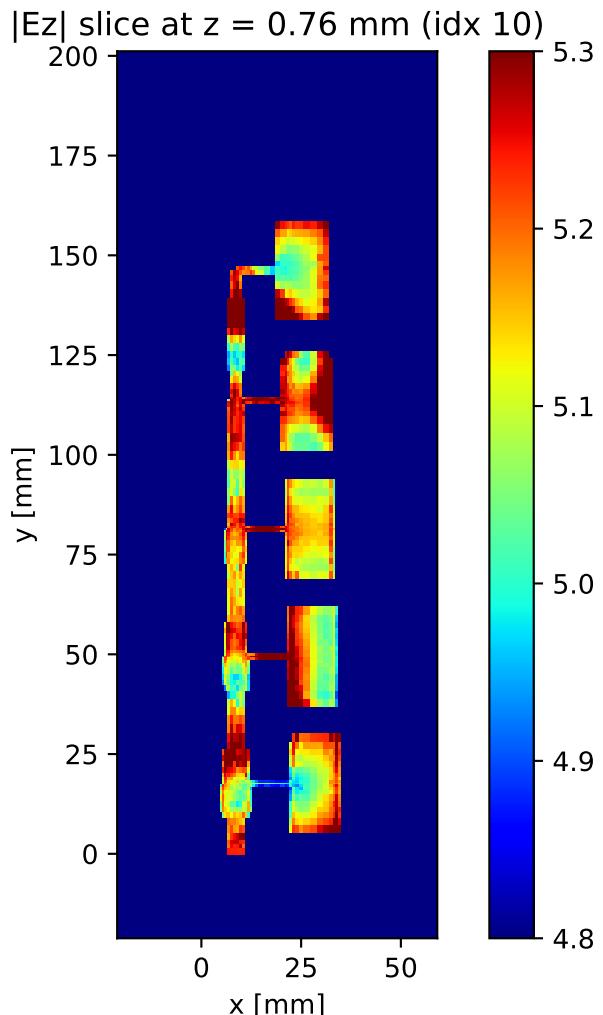
# Reflection Coefficient $S_{11}$



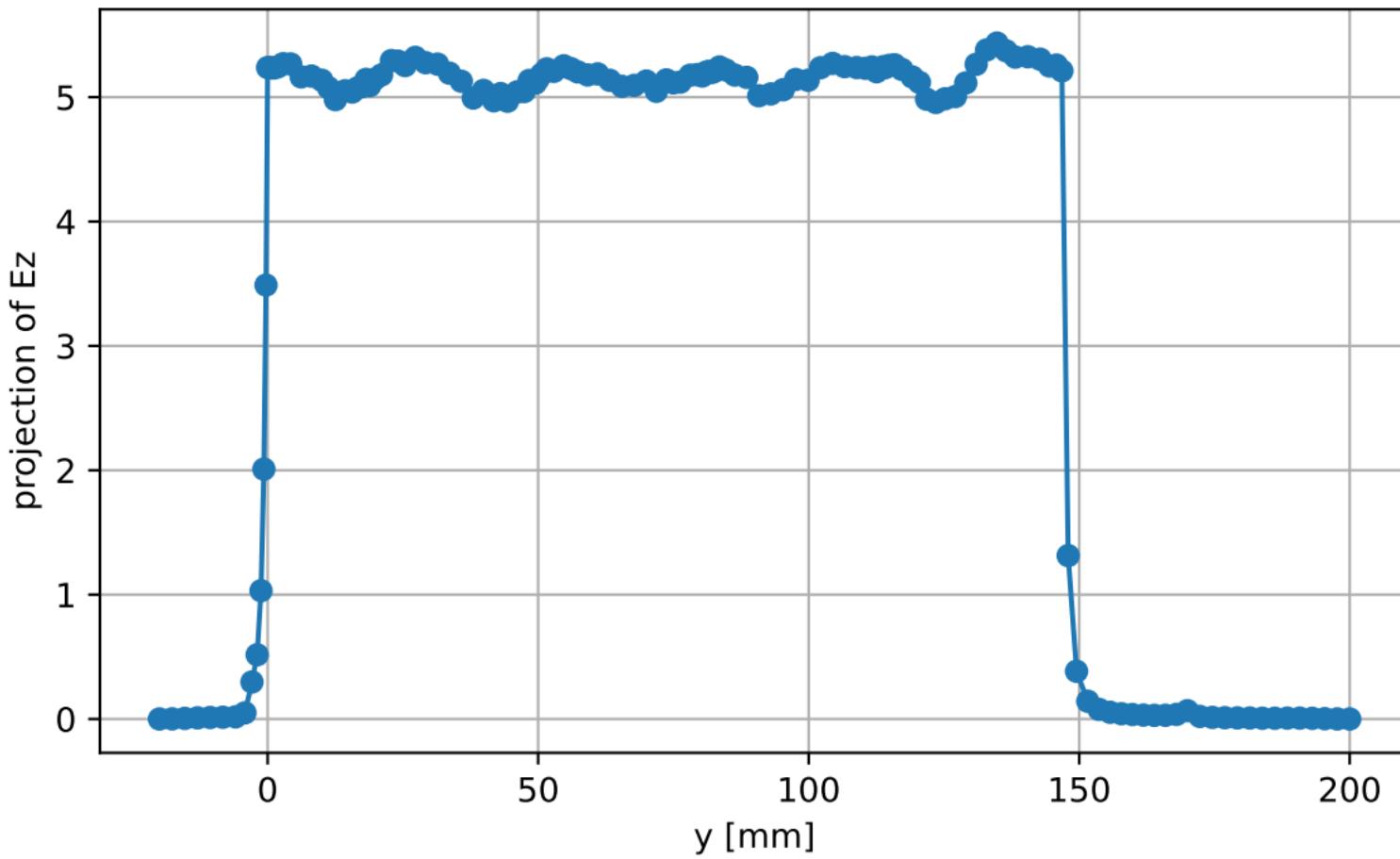
## Smith Chart

- S11 (Patch W=20.10 mm, L=10.70 mm)
- 5.80 GHz,  $S_{11} = -0.092 + 0.102j$ ,  $R = 40.80 + 8.47j$ ,  $G_{norm} = 1.17 - 0.24j$
- 5.83 GHz,  $S_{11} = -0.095 + 0.089j$ ,  $R = 40.72 + 7.40j$ ,  $G_{2norm} = 1.19 - 0.22j$

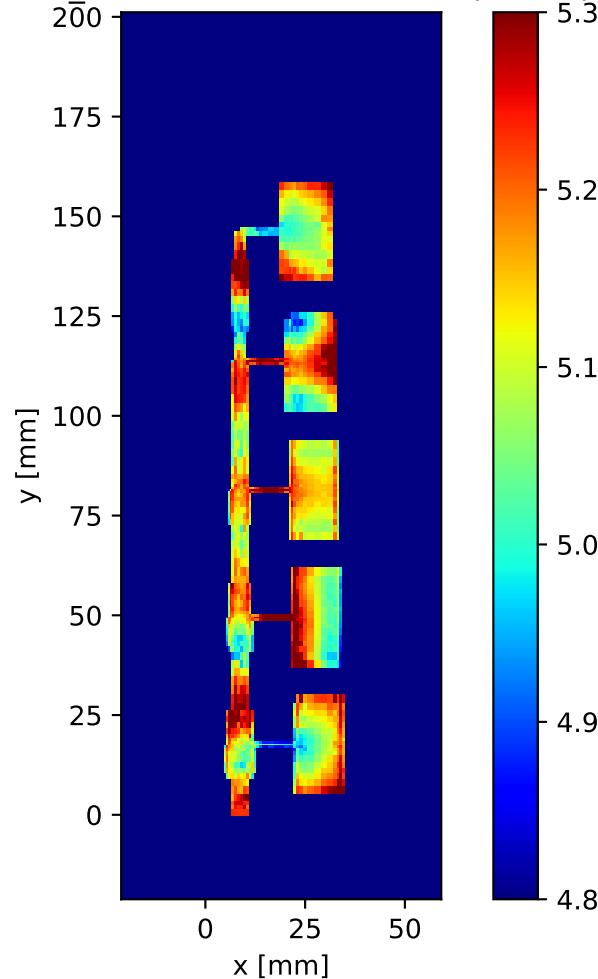




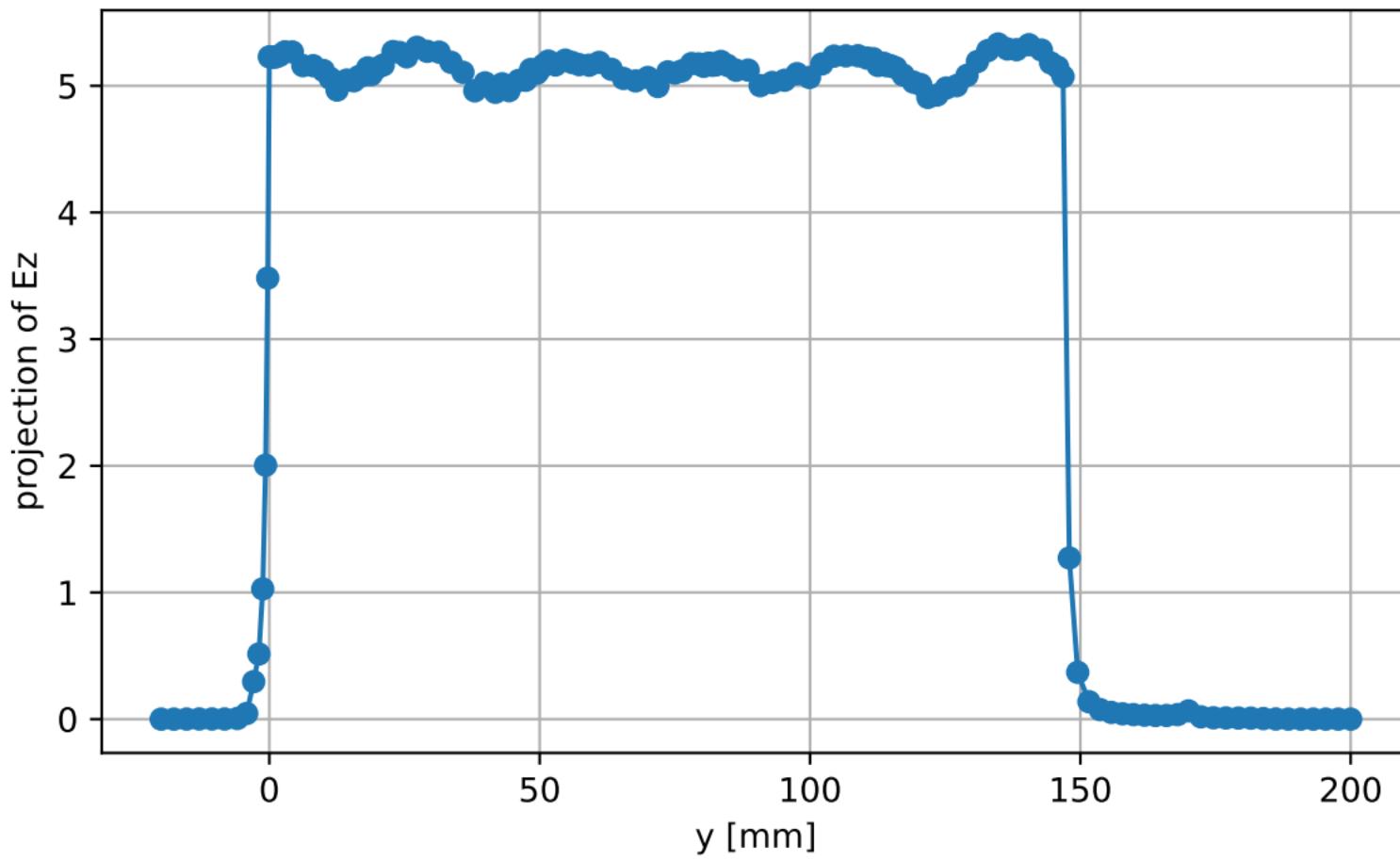
$|E_z|$  line cut along Y at  $x=9.20$  mm,  $z=0.76$  mm  
(idx  $x=20$ ,  $z=10$ )



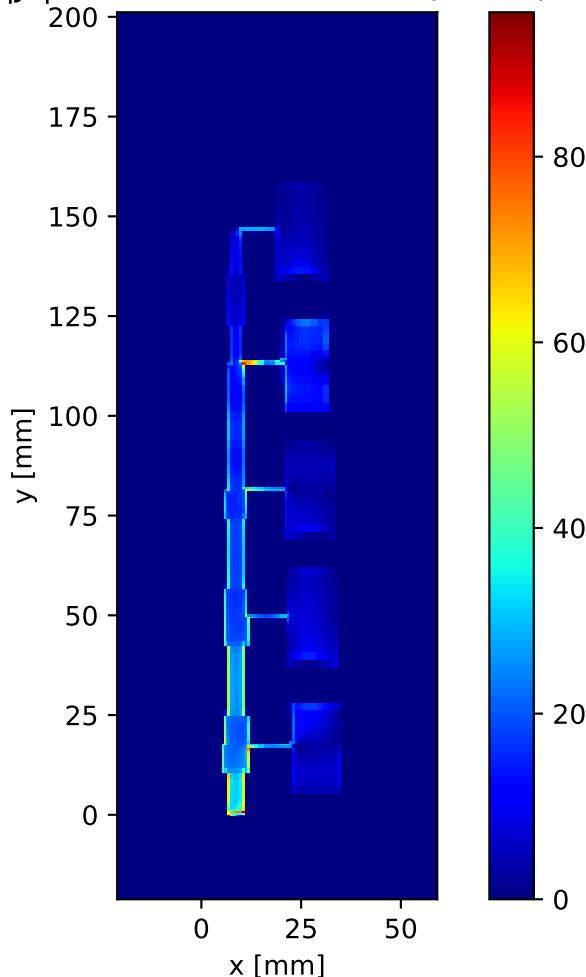
Real E\_fd slice at z = 0.76 mm (idx 10)



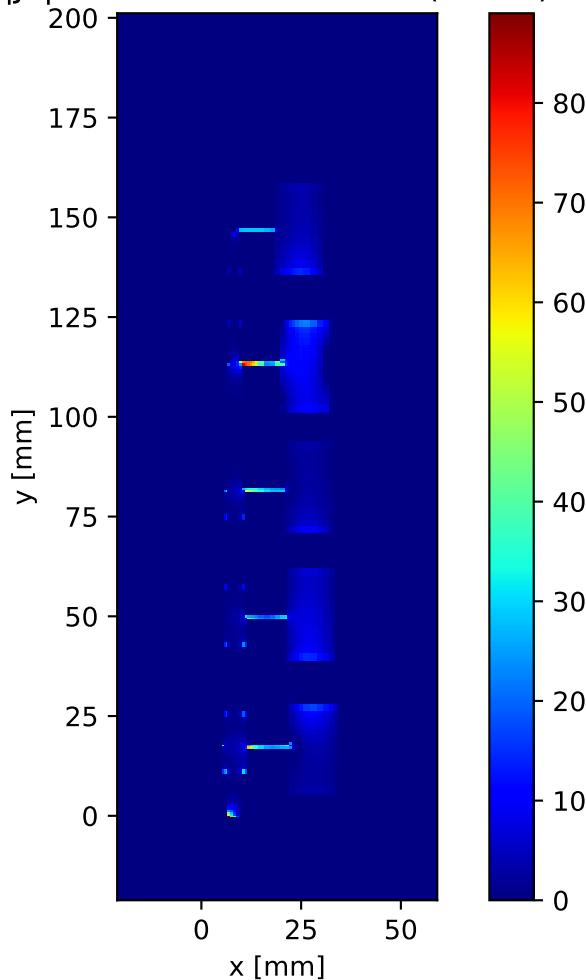
Real E\_fd line cut along Y at x=9.20 mm, z=0.76 mm  
(idx x=20, z=10)



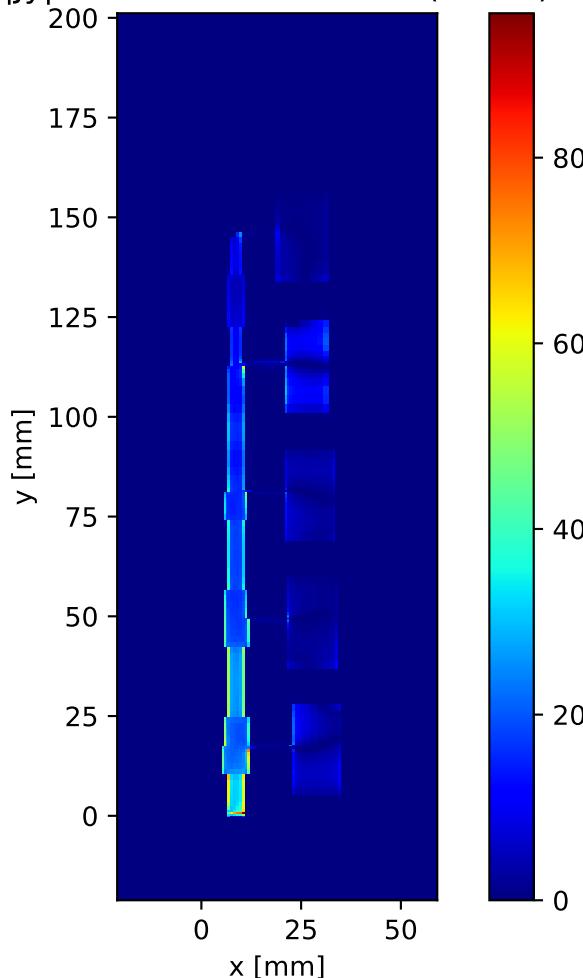
$|J_s|$  slice at  $z = 1.525$  mm (idx 12)



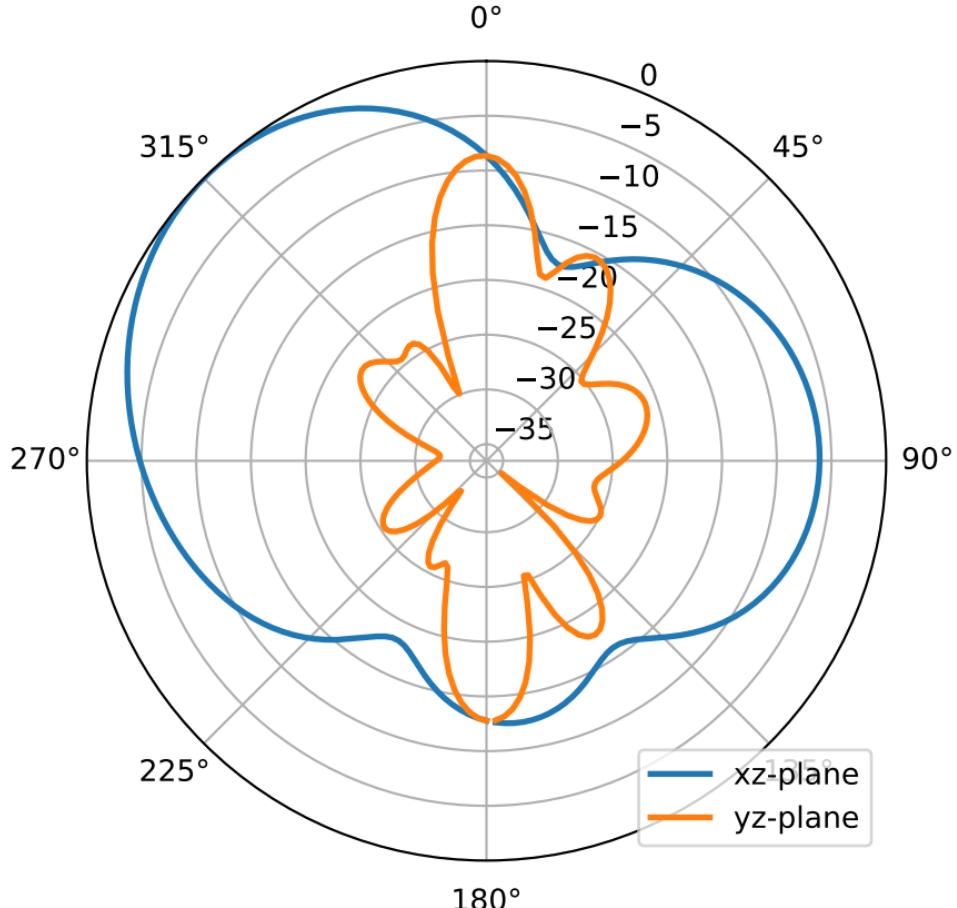
$|J_x|$  slice at  $z = 1.525$  mm (idx 12)



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



Frequency: 5.800 GHz — Directivity (linear). Dmax: 71.631



Frequency: 5.800 GHz

