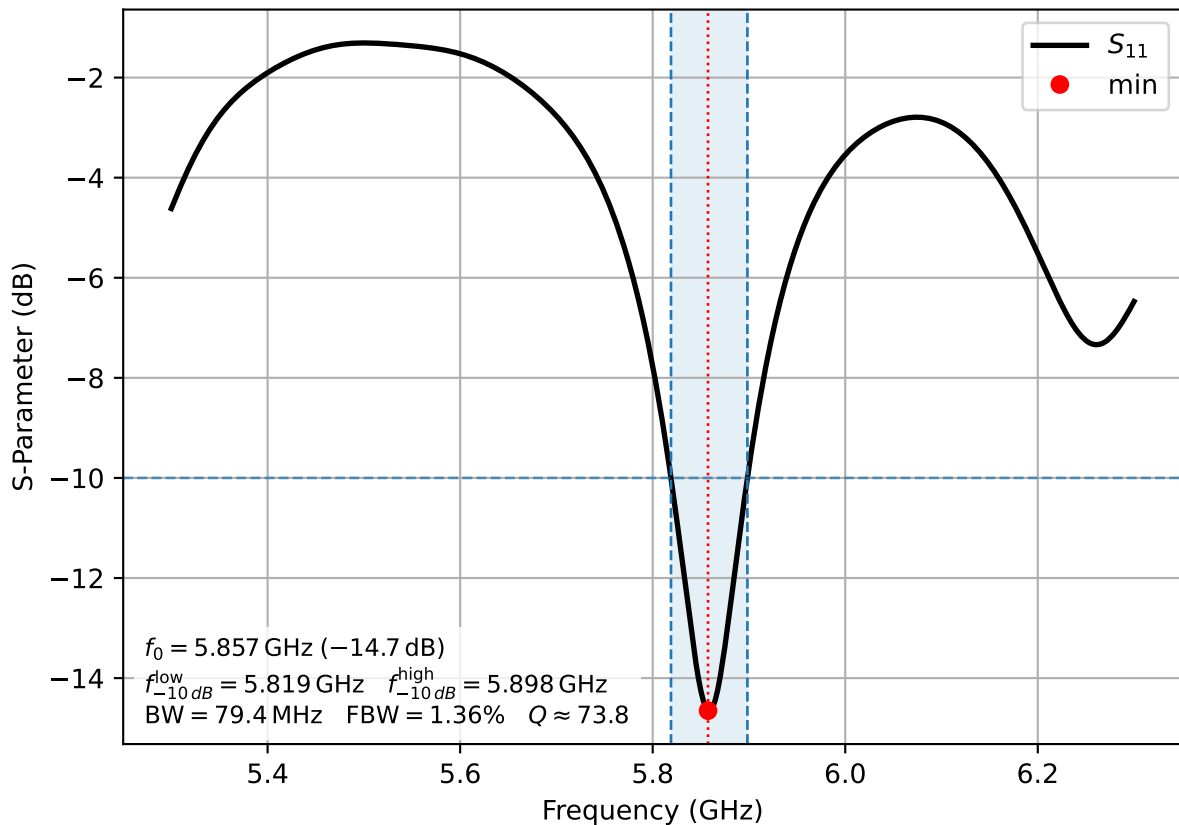
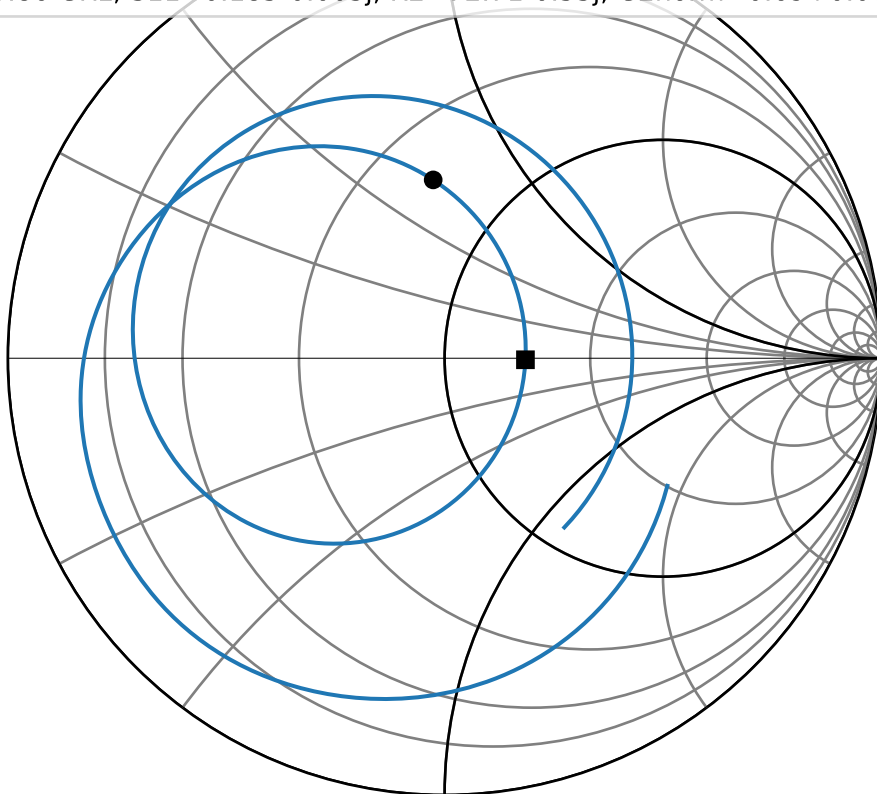


Reflection Coefficient S_{11}

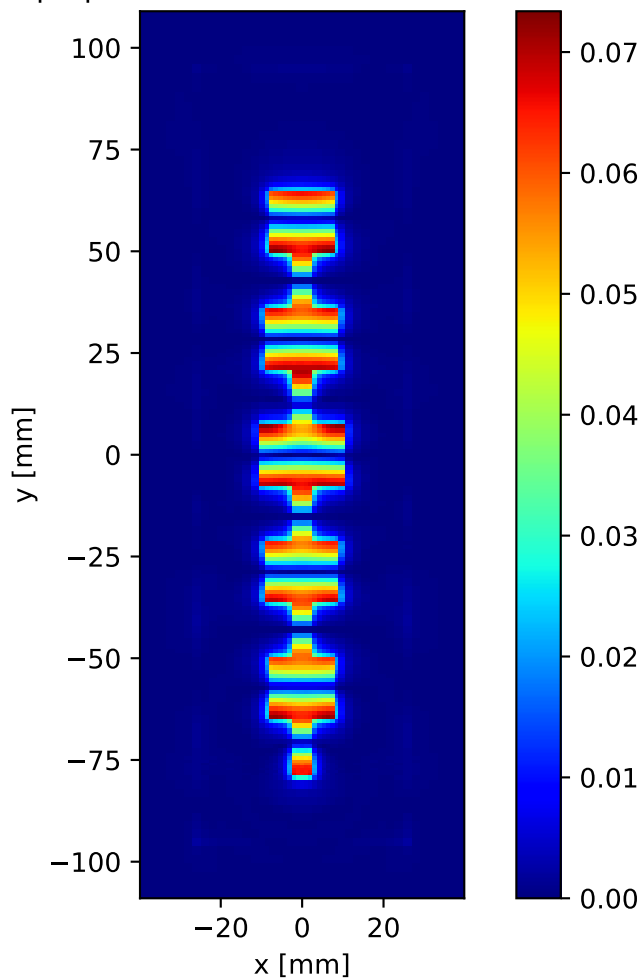


Smith Chart

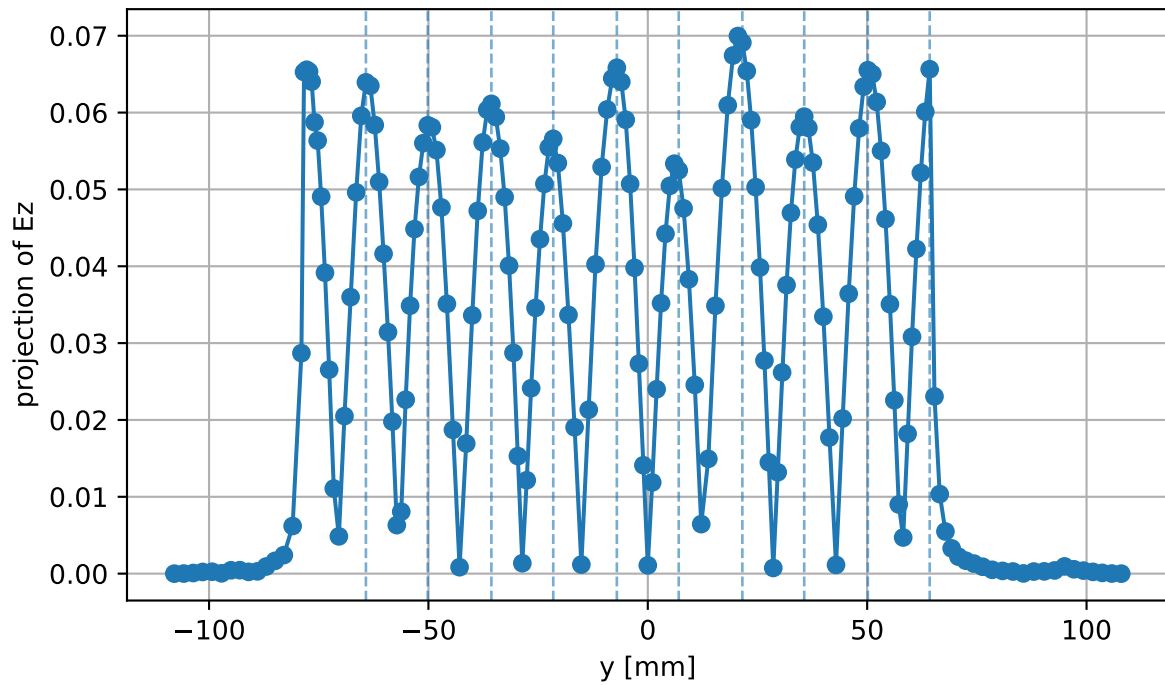
- S11 (Patch W=19.00 mm, L=14.10 mm)
- 5.80 GHz, $S_{11} = -0.026 + 0.408j$, $R = 34.13 + 33.48j$, $G_{\text{norm}} = 0.75 - 0.73j$
- 5.86 GHz, $S_{11} = 0.185 - 0.003j$, $R_2 = 72.71 - 0.53j$, $G_{2\text{norm}} = 0.69 + 0.00j$



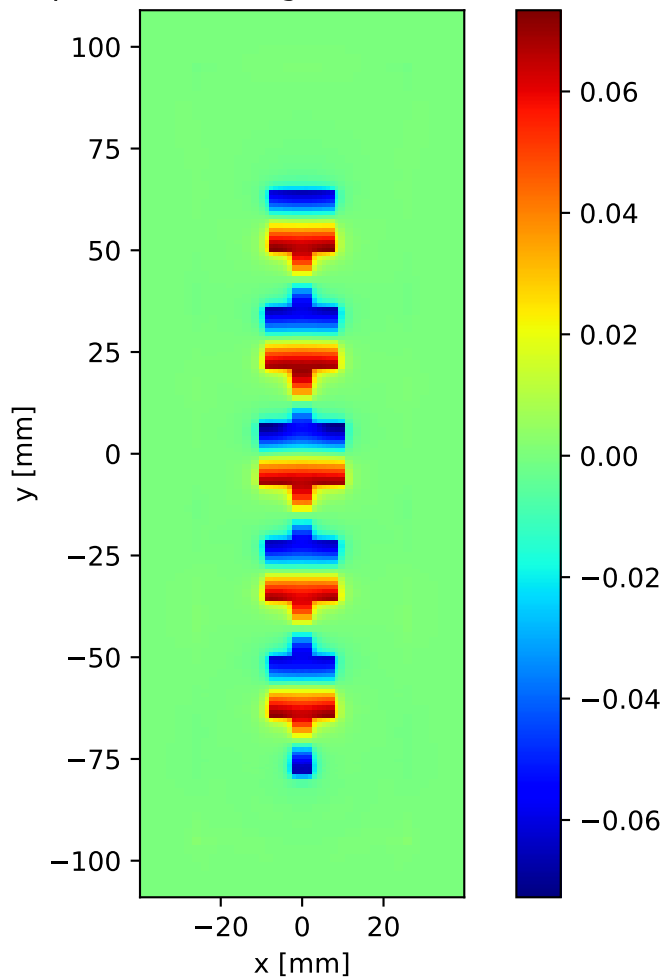
$|E_z|$ slice at $z = 0.76$ mm (idx 20)



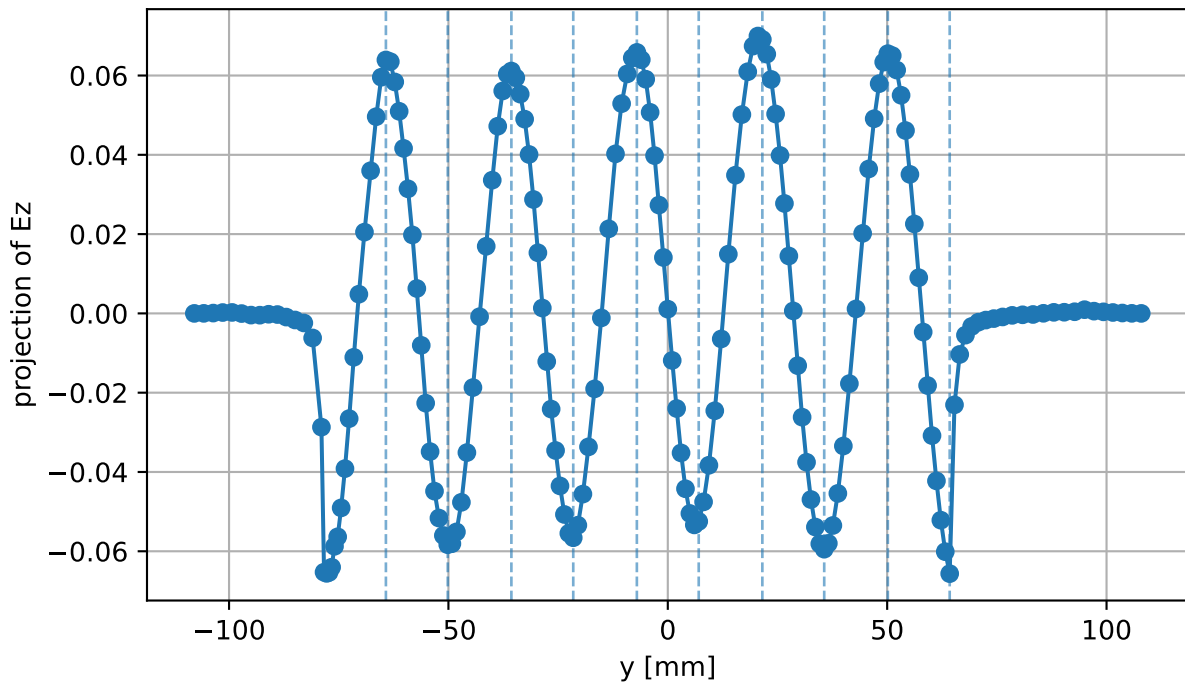
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx x=23, z=20)



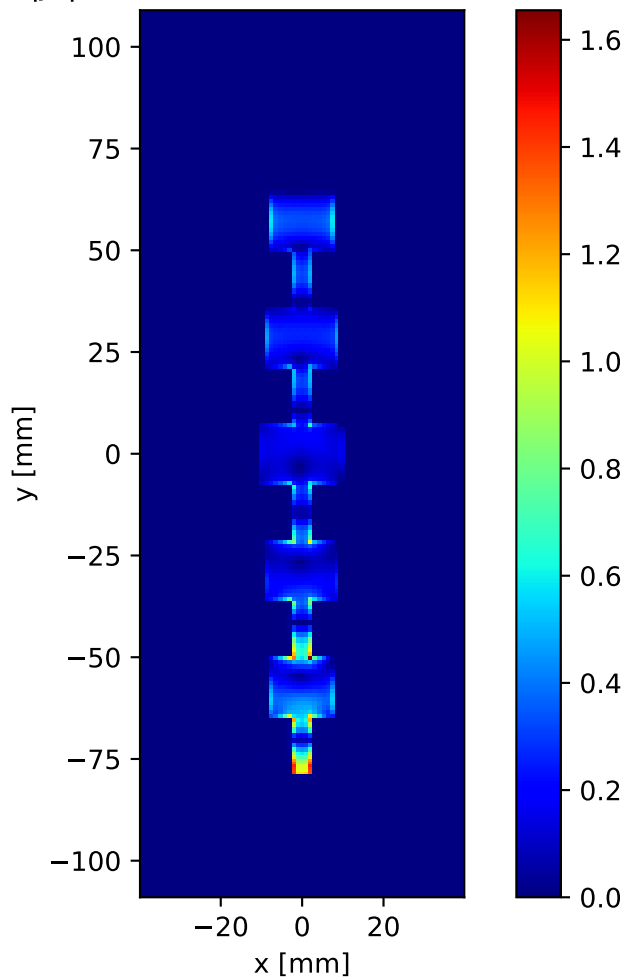
Ez snapshot (dphi=179.98deg) slice at $z = 0.76$ mm (idx 20)



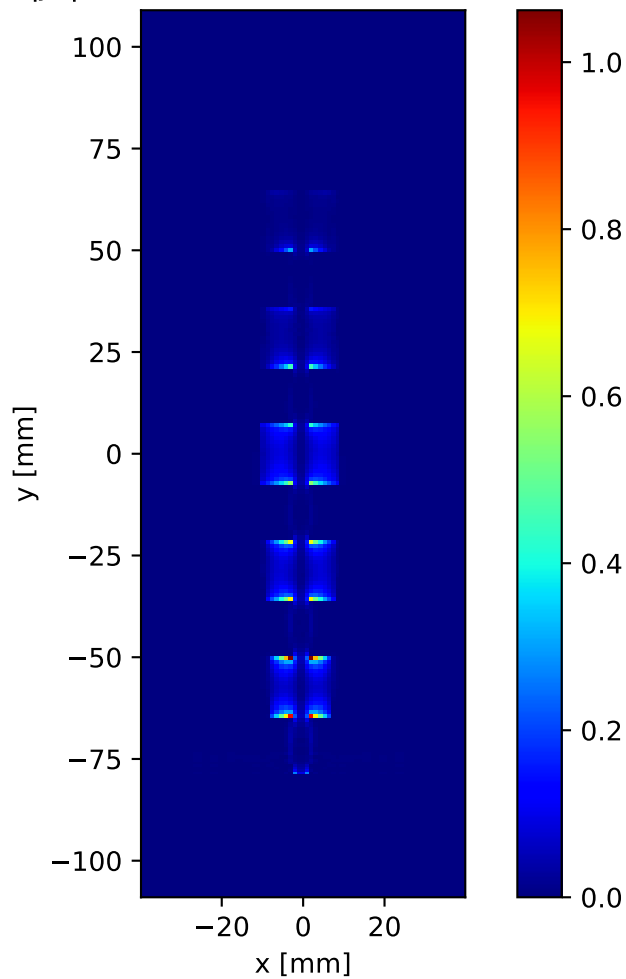
Ez snapshot (dphi=179.98deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=23, z=20)



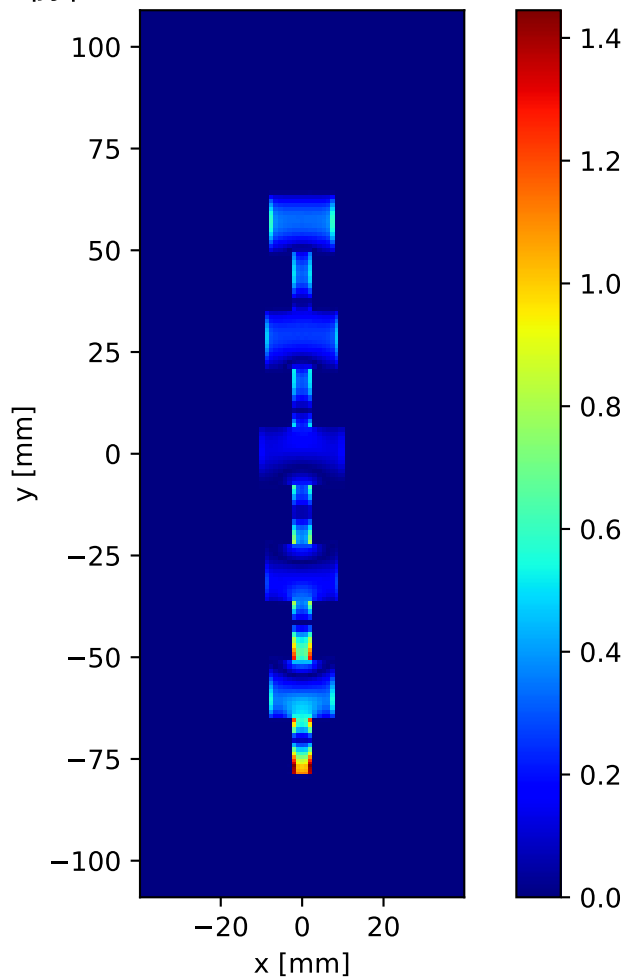
$|J_s|$ slice at $z = 1.524$ mm (idx 22)



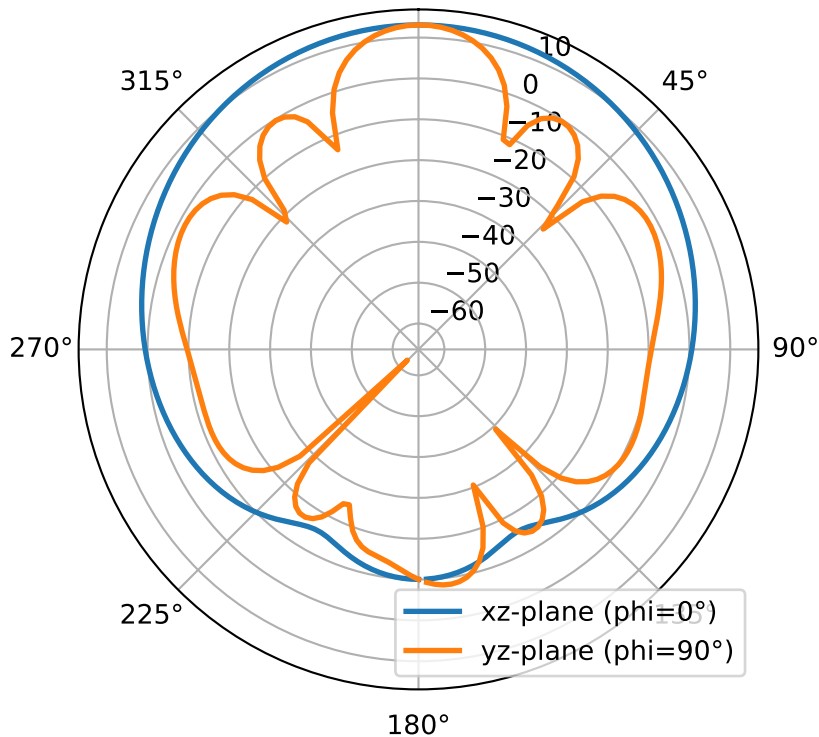
$|J_x|$ slice at $z = 1.524$ mm (idx 22)



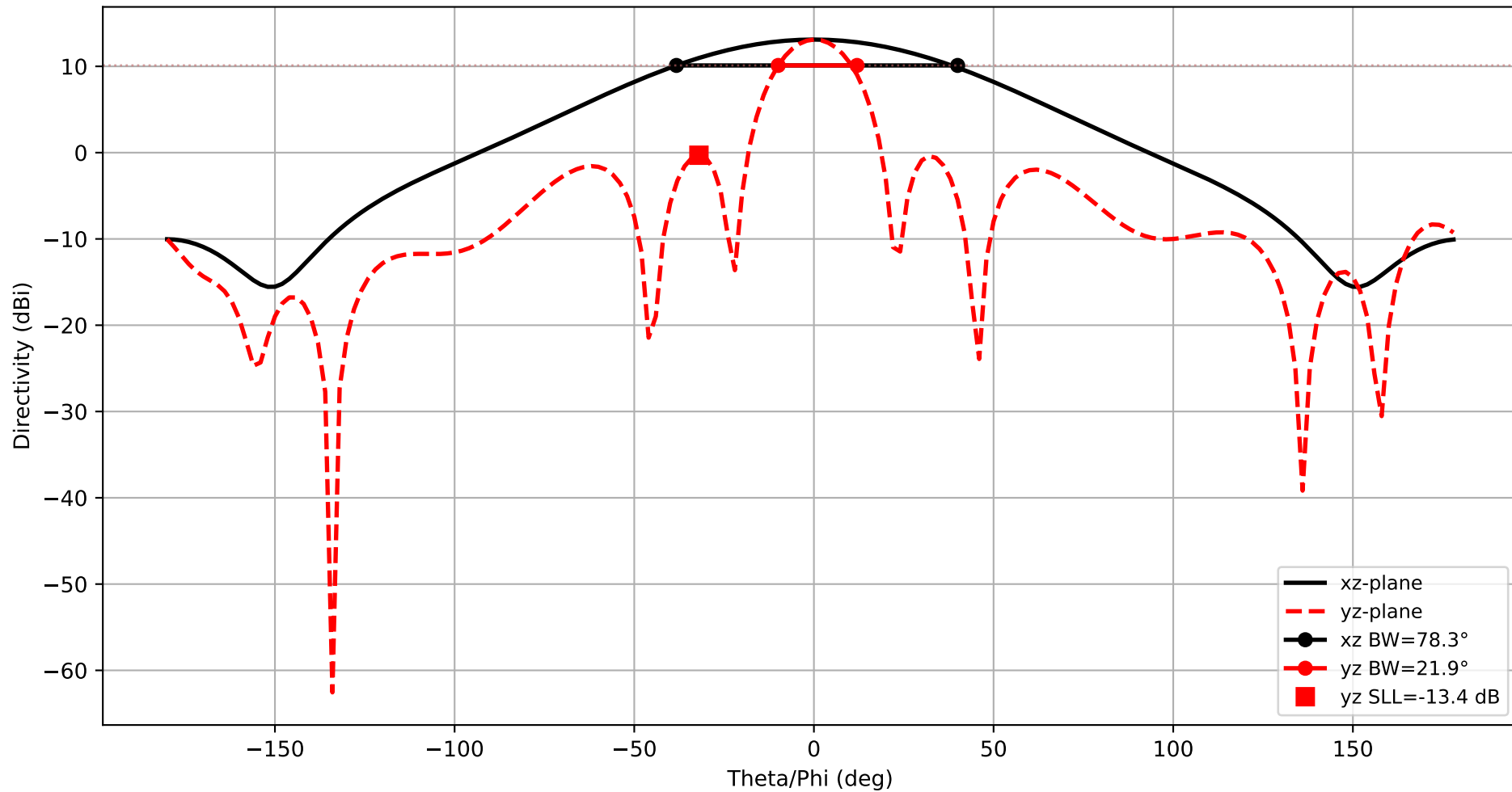
$|J_y|$ slice at $z = 1.524$ mm (idx 22)



$f = 5.800 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 13.11 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 13.11 \text{ dB}$



Frequency: 5.800 GHz
xz-plane: HPBW=78.3°
yz-plane: HPBW=21.9°



3D Directivity Pattern
 $f = 5.800$ GHz, $D_{\max} = 13.11$ dBi

