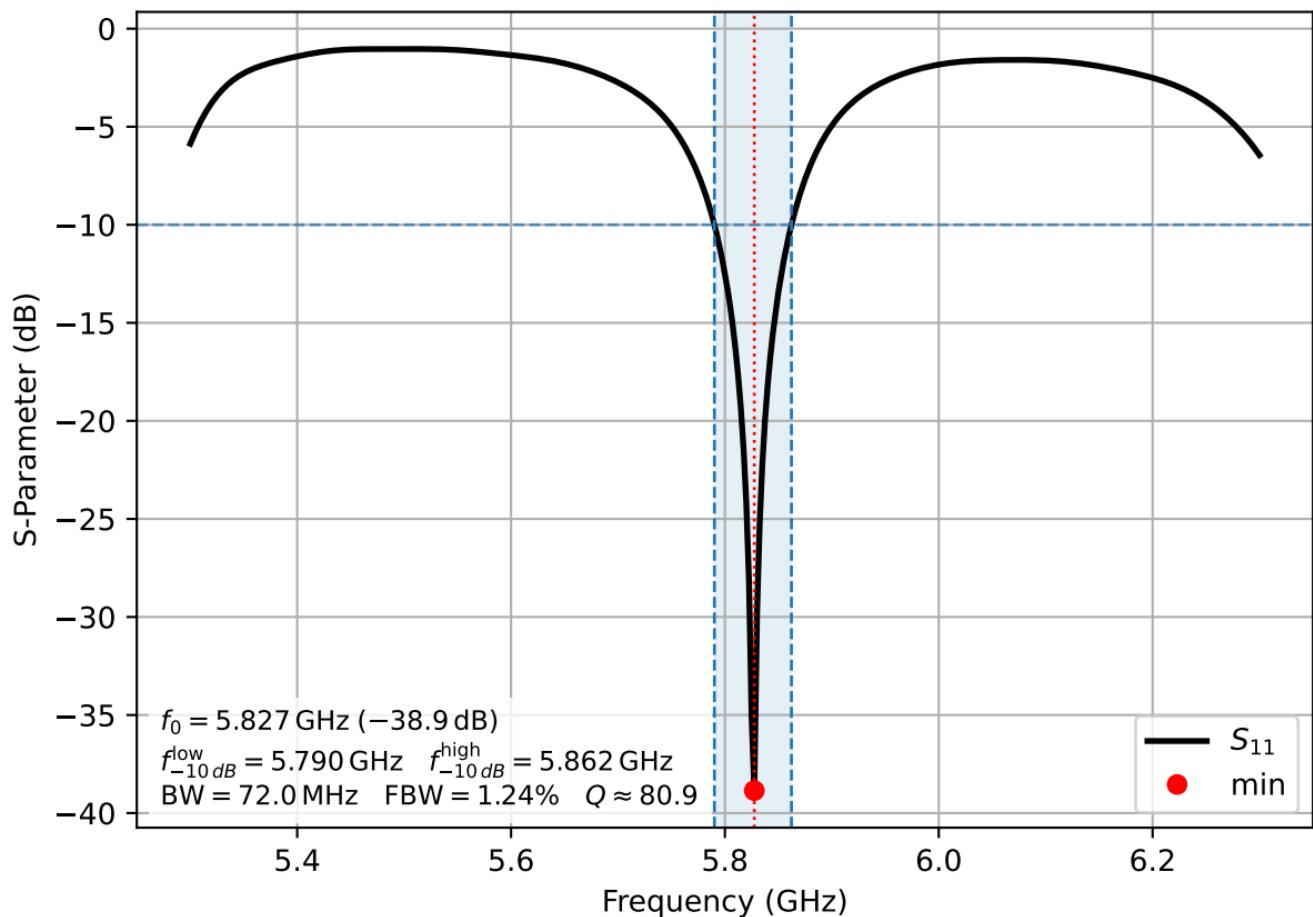
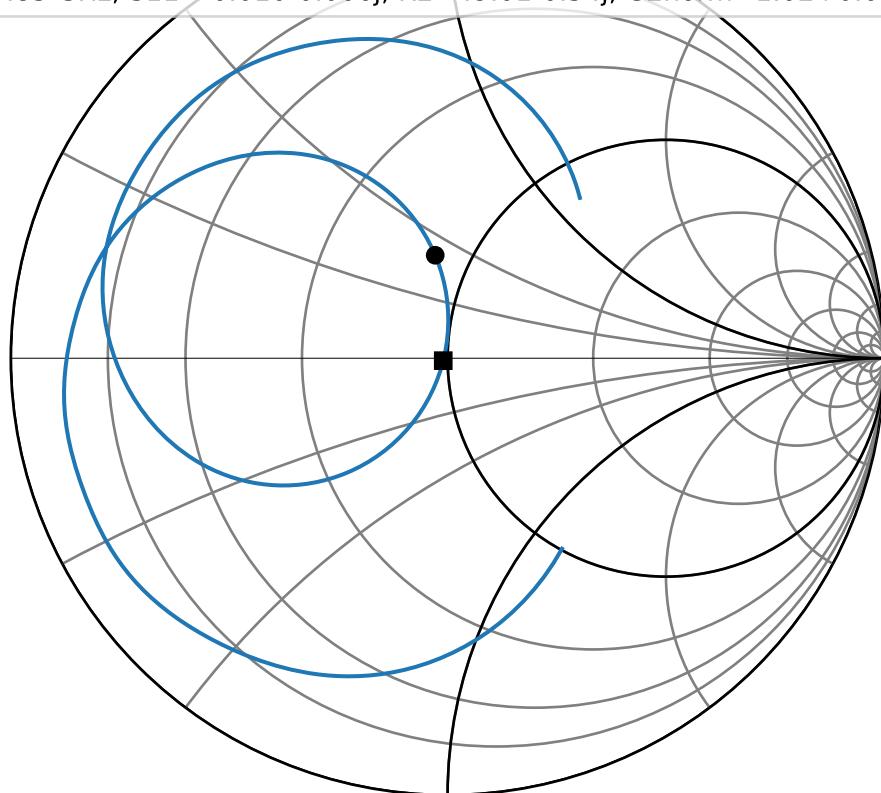


Reflection Coefficient S_{11}

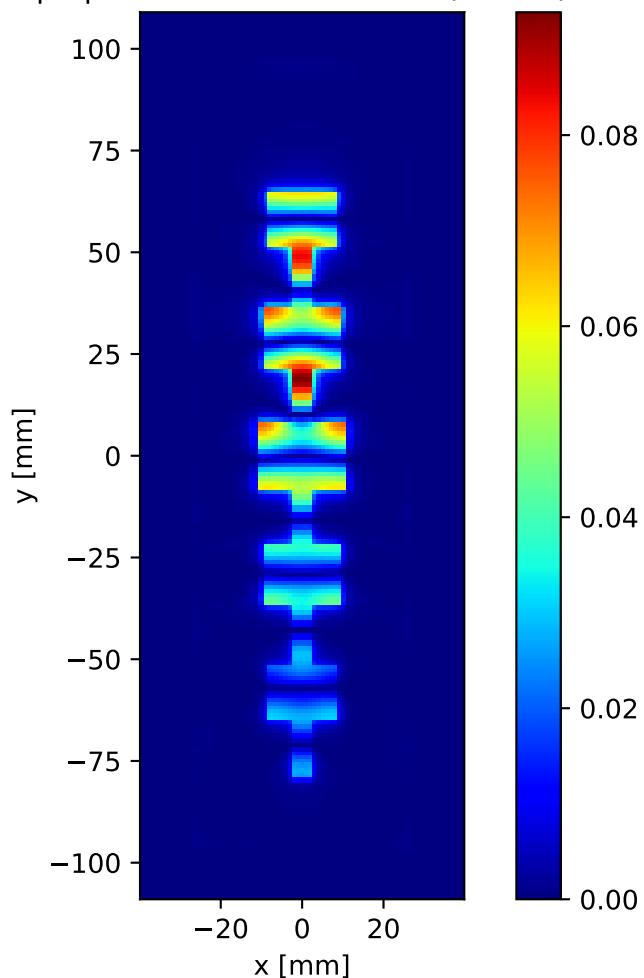


Smith Chart

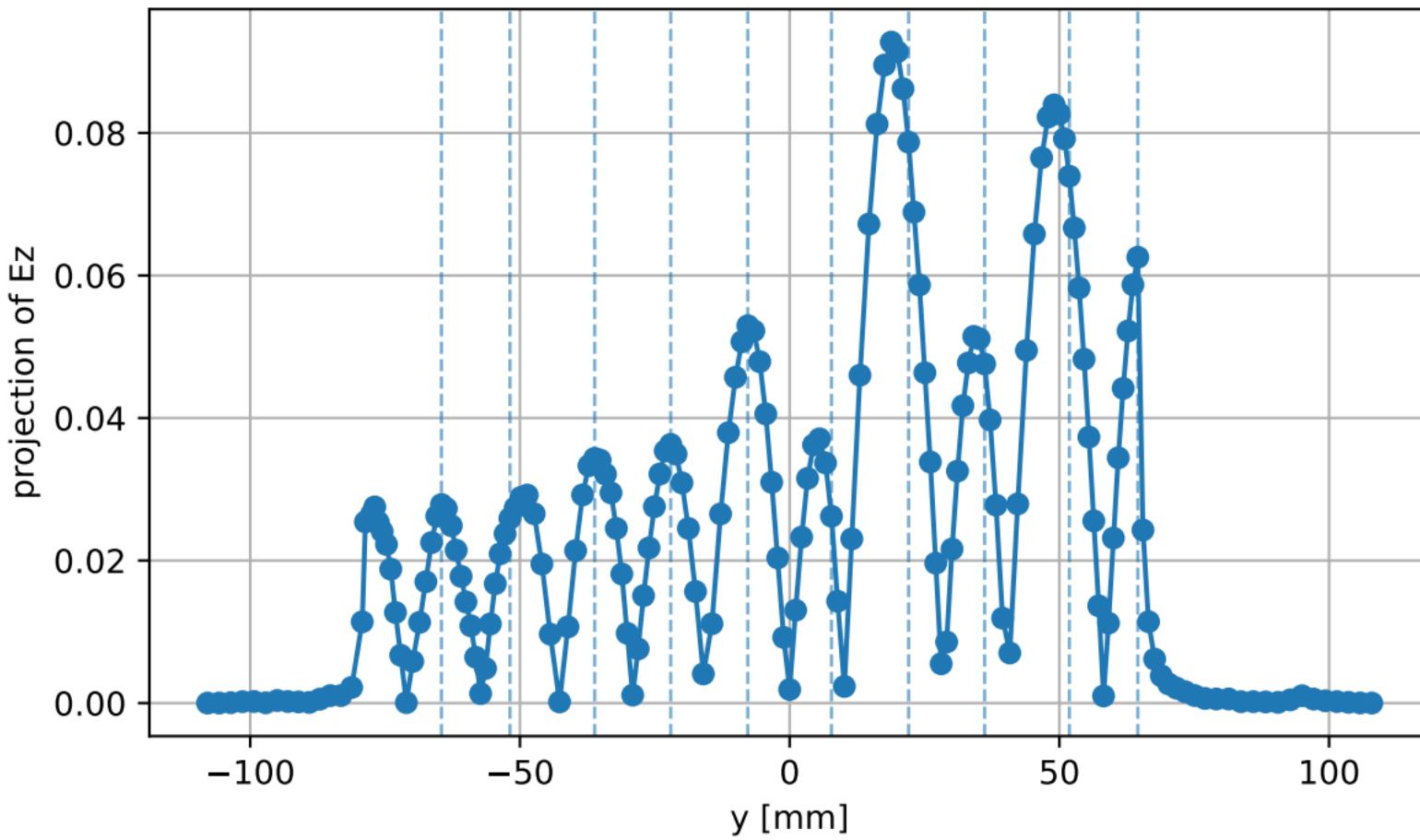
- S11 (Patch W=18.00 mm, L=14.10 mm)
- 5.80 GHz, $S_{11}=-0.028+0.236j$, $R=42.39+21.18j$, $G_{norm}=0.94-0.47j$
- 5.83 GHz, $S_{11}=-0.010-0.006j$, $R=49.01-0.54j$, $G_{2norm}=1.02+0.01j$



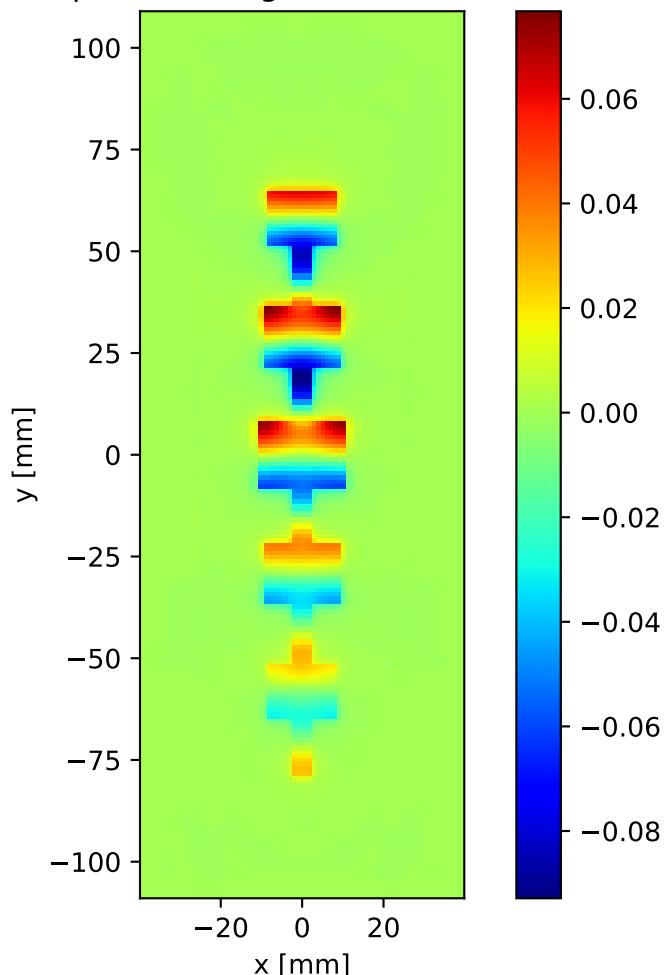
$|E_z|$ slice at $z = 0.76$ mm (idx 20)



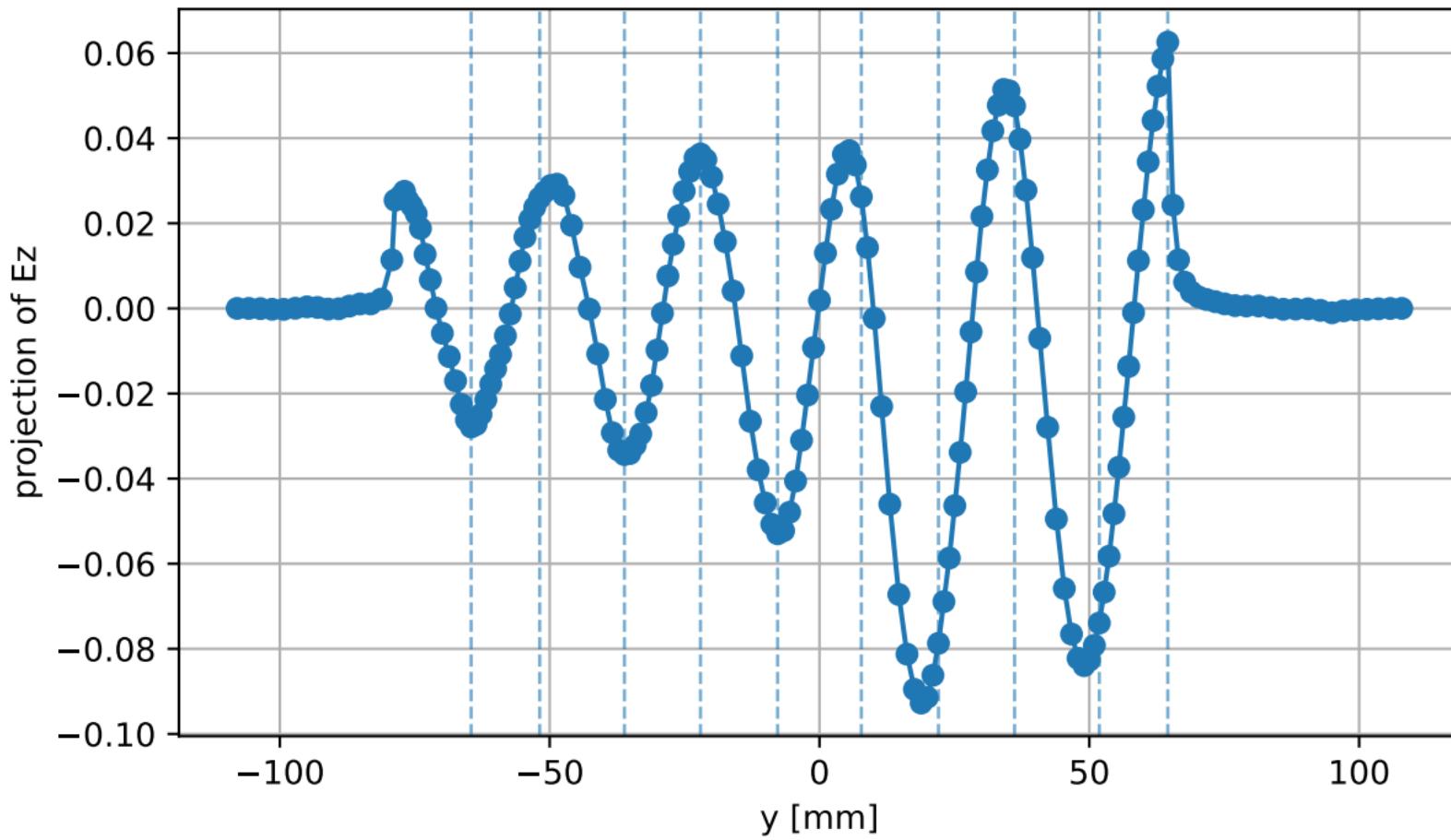
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=24$, $z=20$)



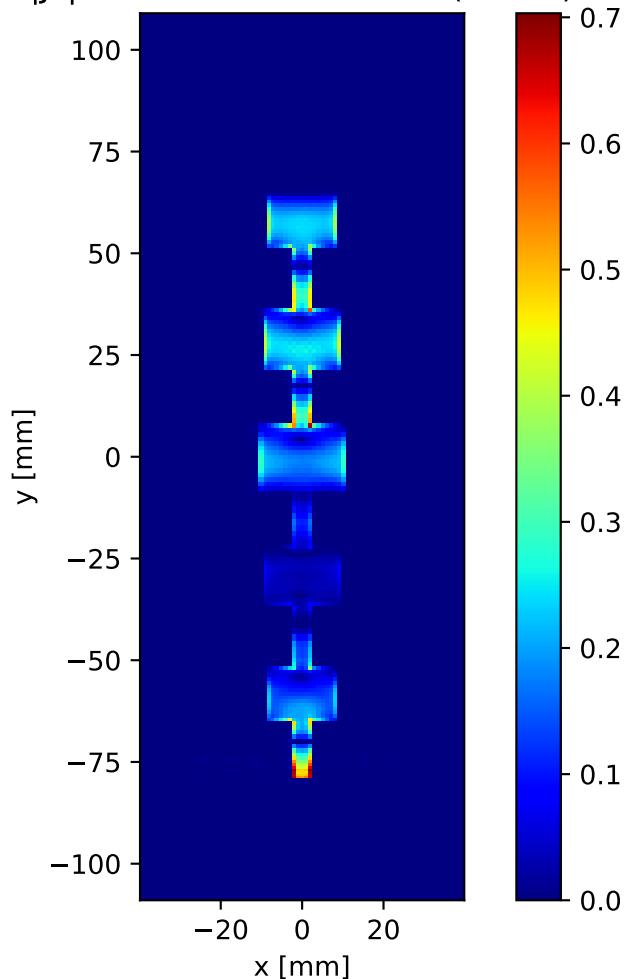
Ez snapshot (dphi=0.00deg) slice at z = 0.76 mm (idx 20)



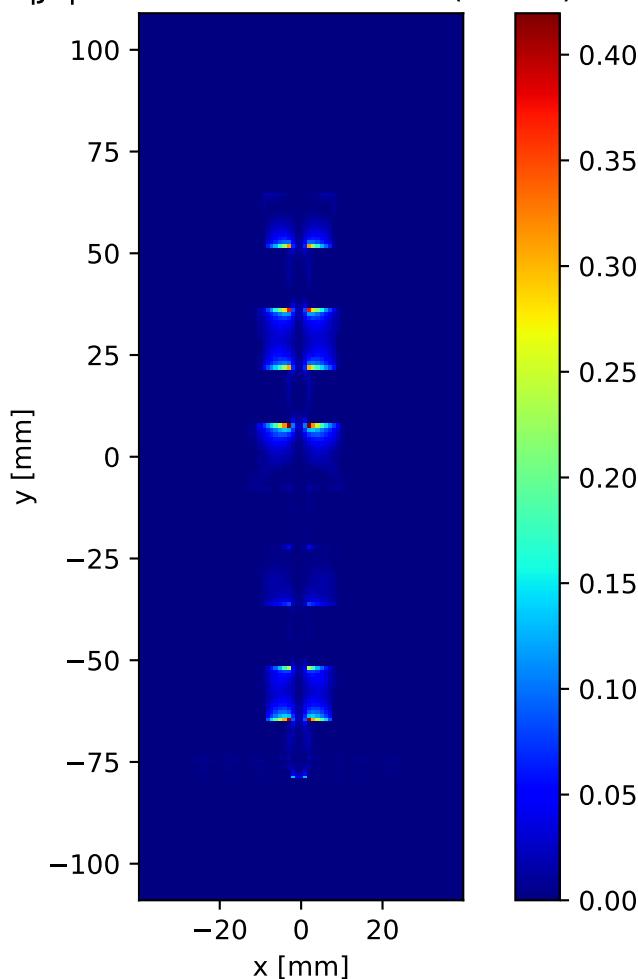
Ez snapshot (dphi=0.00deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=24, z=20)



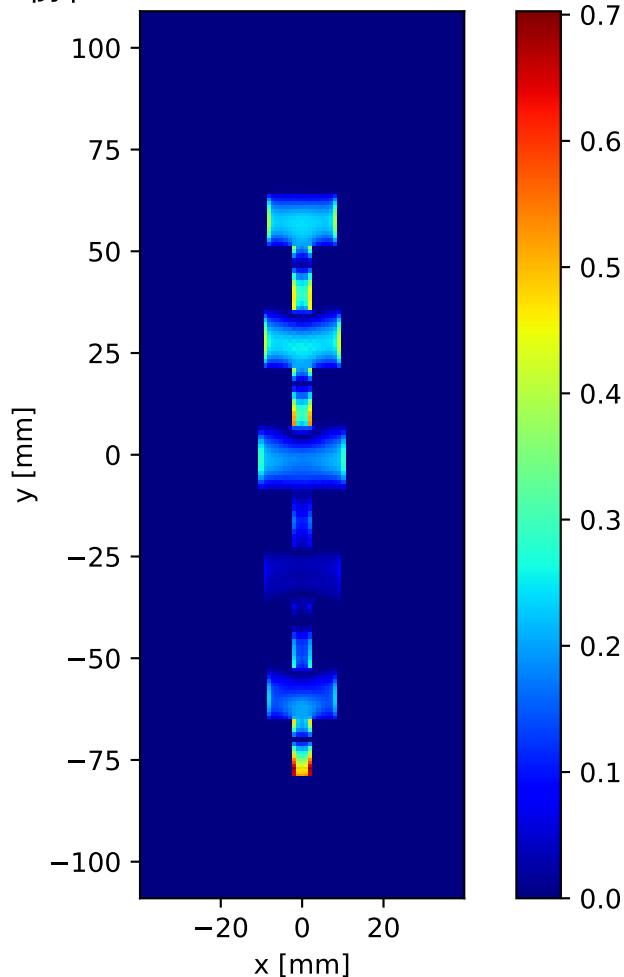
$|J_s|$ slice at $z = 1.524$ mm (idx 22)



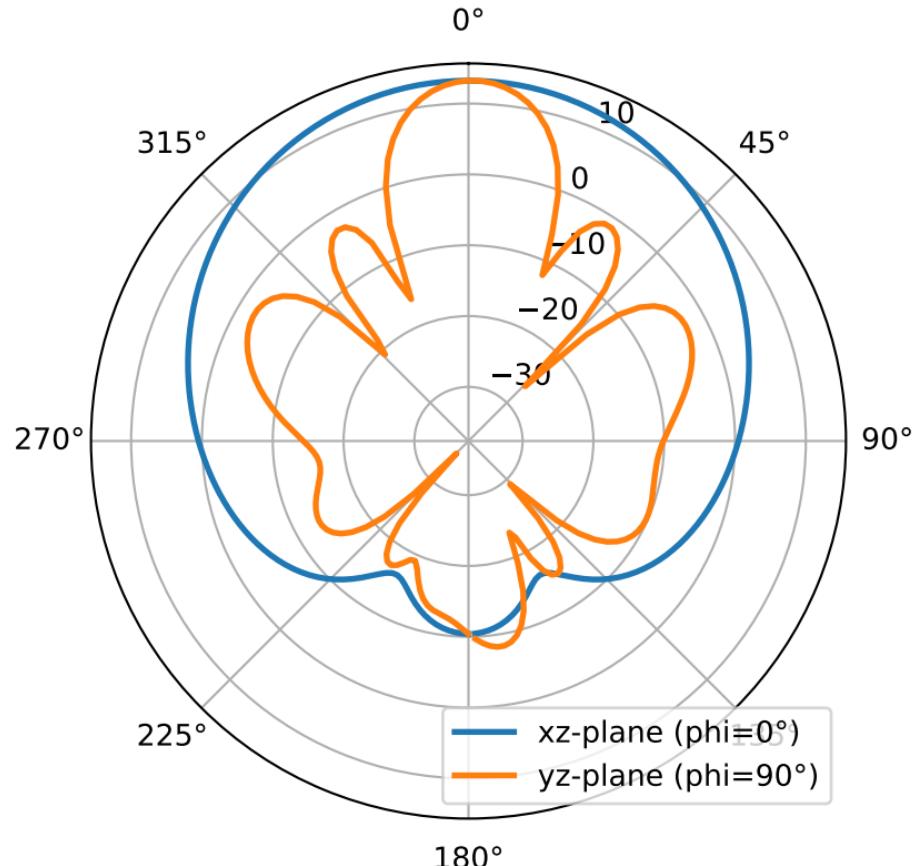
$|J_x|$ slice at $z = 1.524$ mm (idx 22)



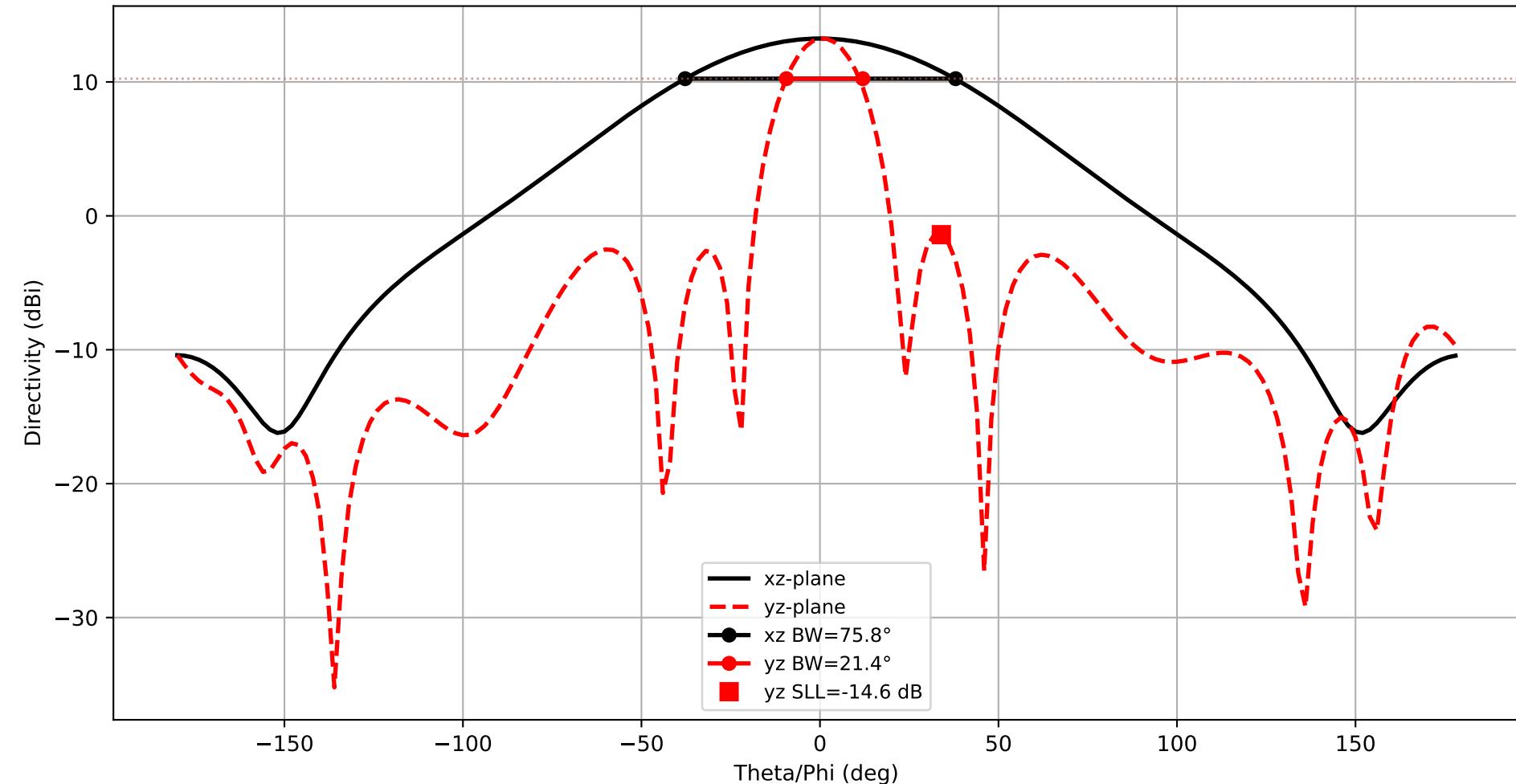
$|j_y|$ slice at $z = 1.524$ mm (idx 22)



$f = 5.800 \text{ GHz} — \text{Directivity (dB)}$
 $D_{\max} (\text{integrated}) \approx 13.24 \text{ dB}, \text{ nf2ff } D_{\max} = 13.24 \text{ dB}$



Frequency: 5.800 GHz
xz-plane: HPBW=75.8°
yz-plane: HPBW=21.4°



3D Directivity Pattern
 $f = 5.800 \text{ GHz}$, $D_{\max} = 13.24 \text{ dBi}$

