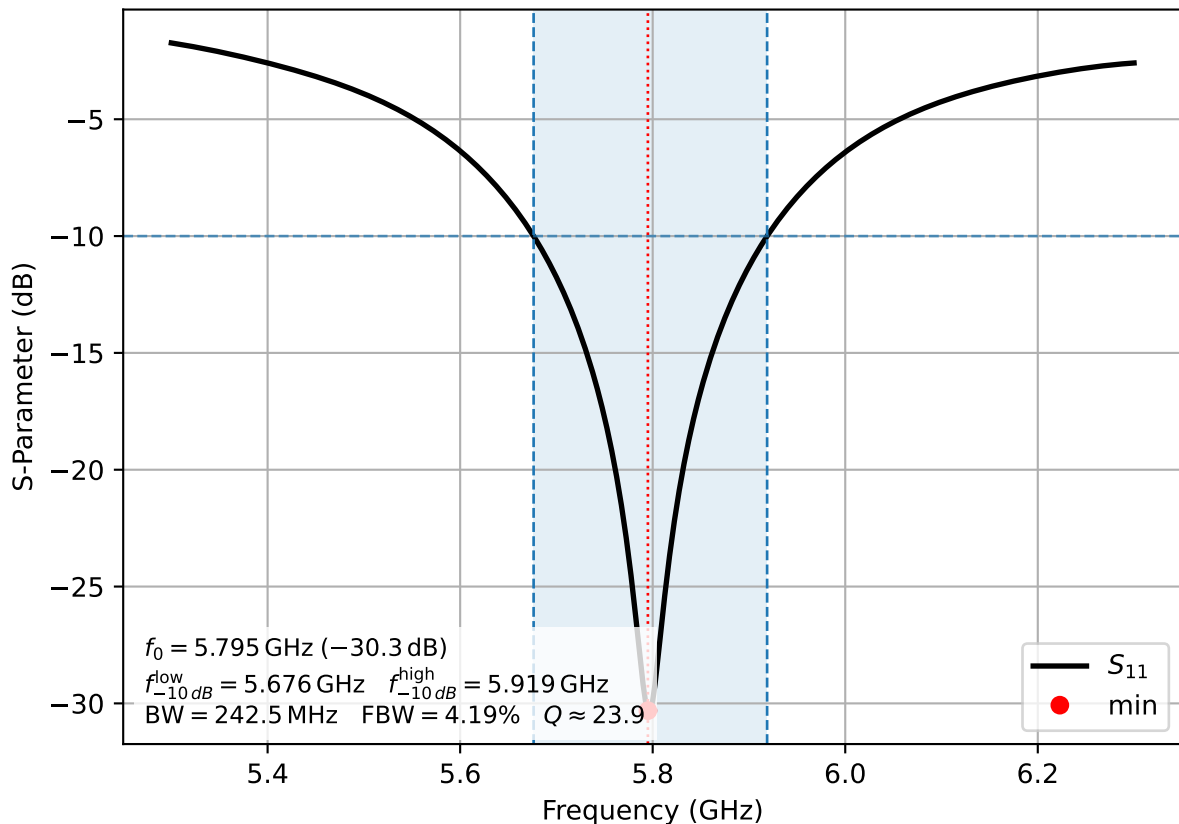


Reflection Coefficient S_{11}

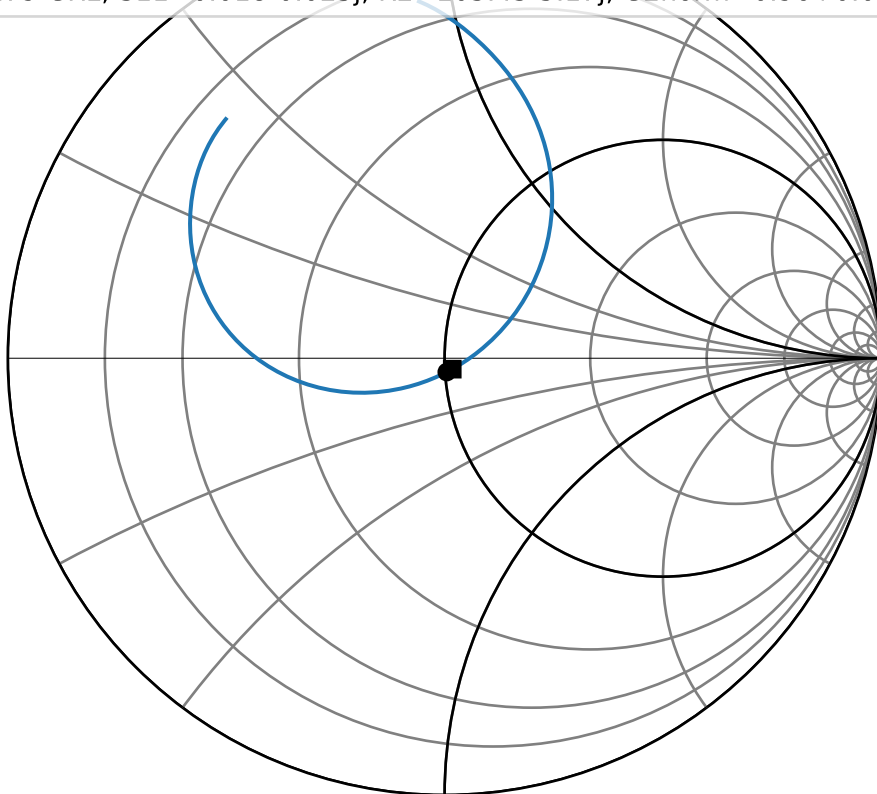


Smith Chart

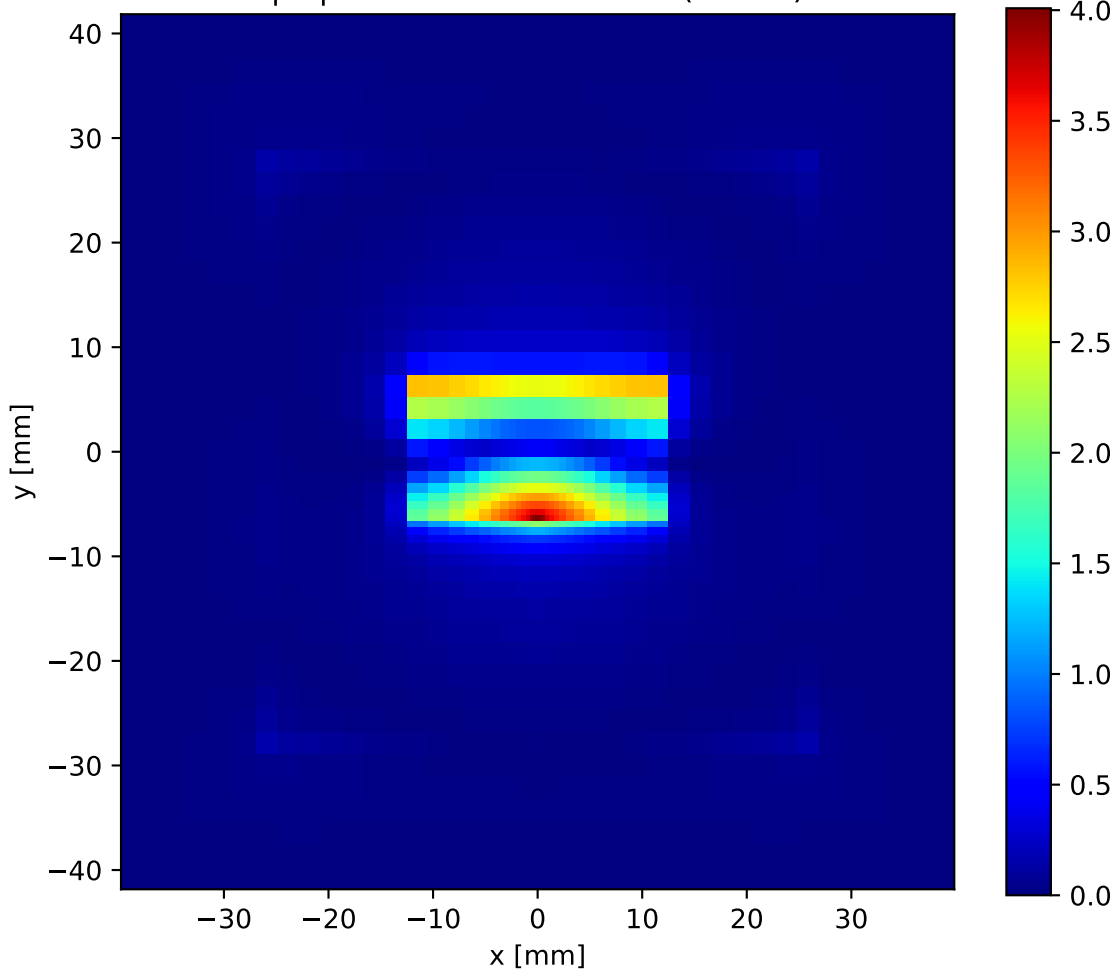
— S11 (Patch W=23.00 mm, L=12.60 mm)

● 5.80 GHz, $S_{11}=0.005-0.032j$, $R=100.81-6.39j$, $G_{\text{norm}}=0.99+0.06j$

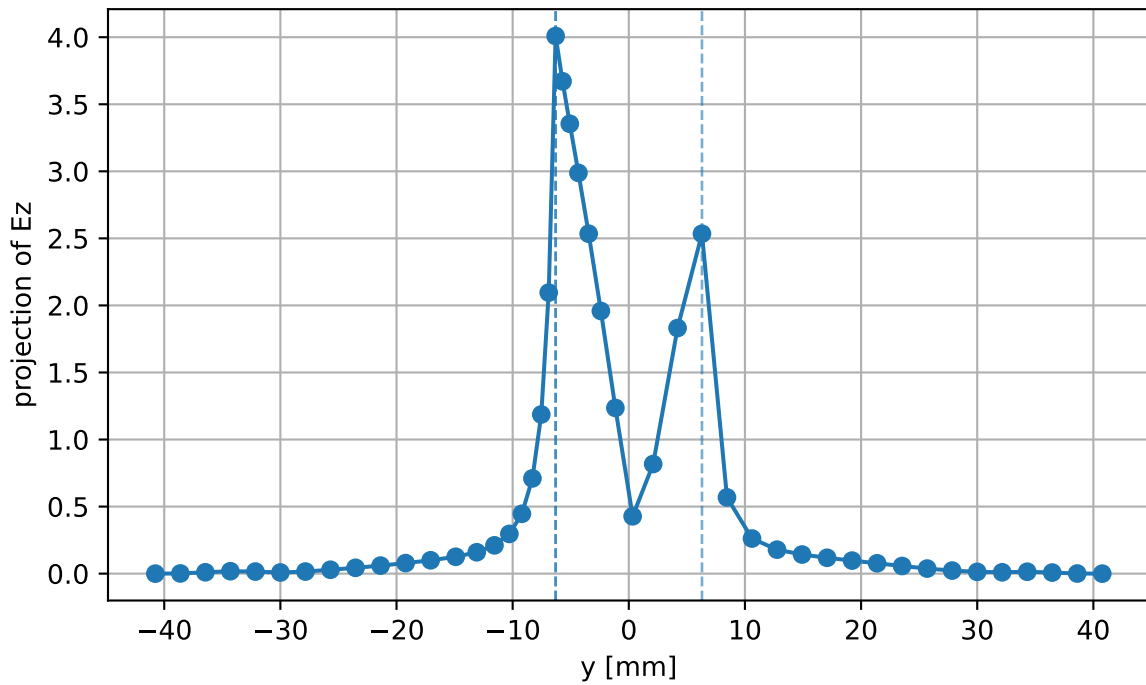
■ 5.79 GHz, $S_{11}=0.018-0.025j$, $R_2=103.43-5.17j$, $G_{2\text{norm}}=0.96+0.05j$



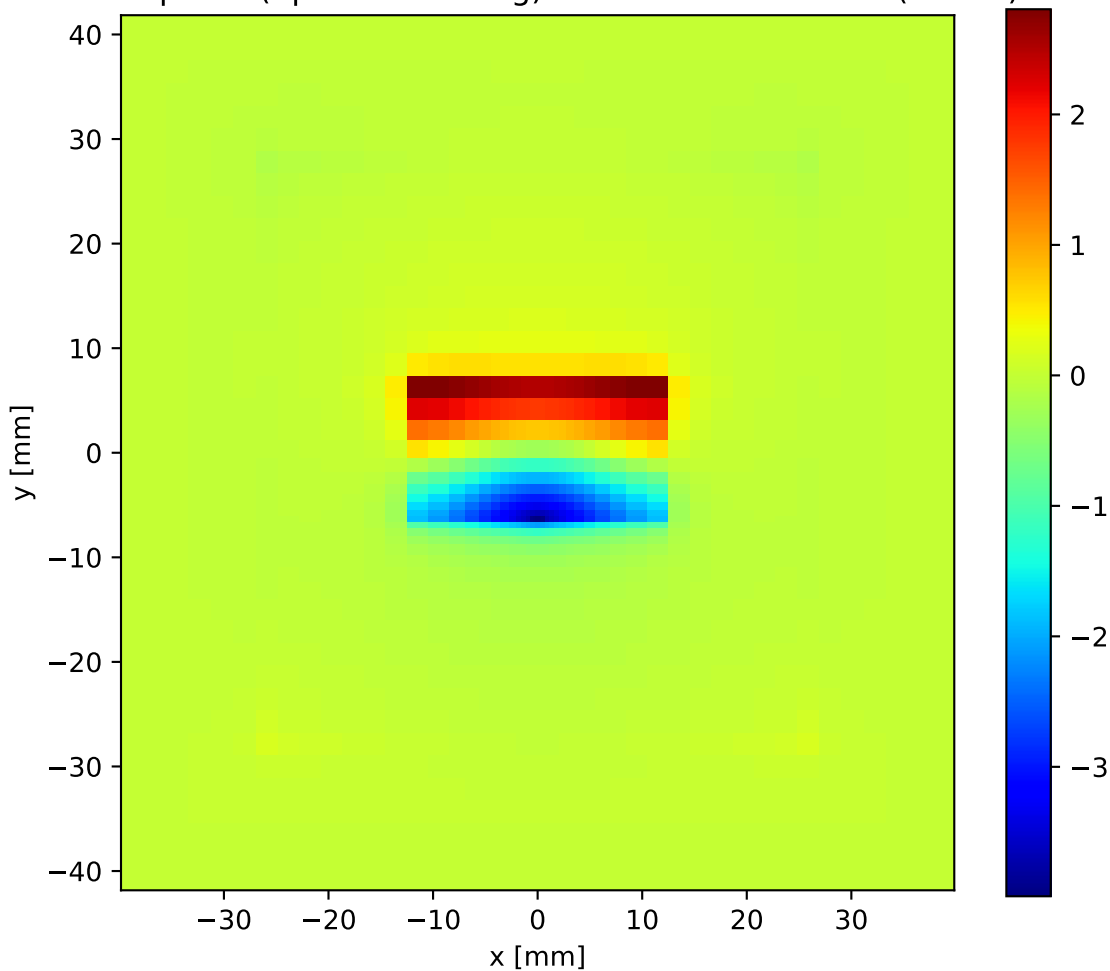
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



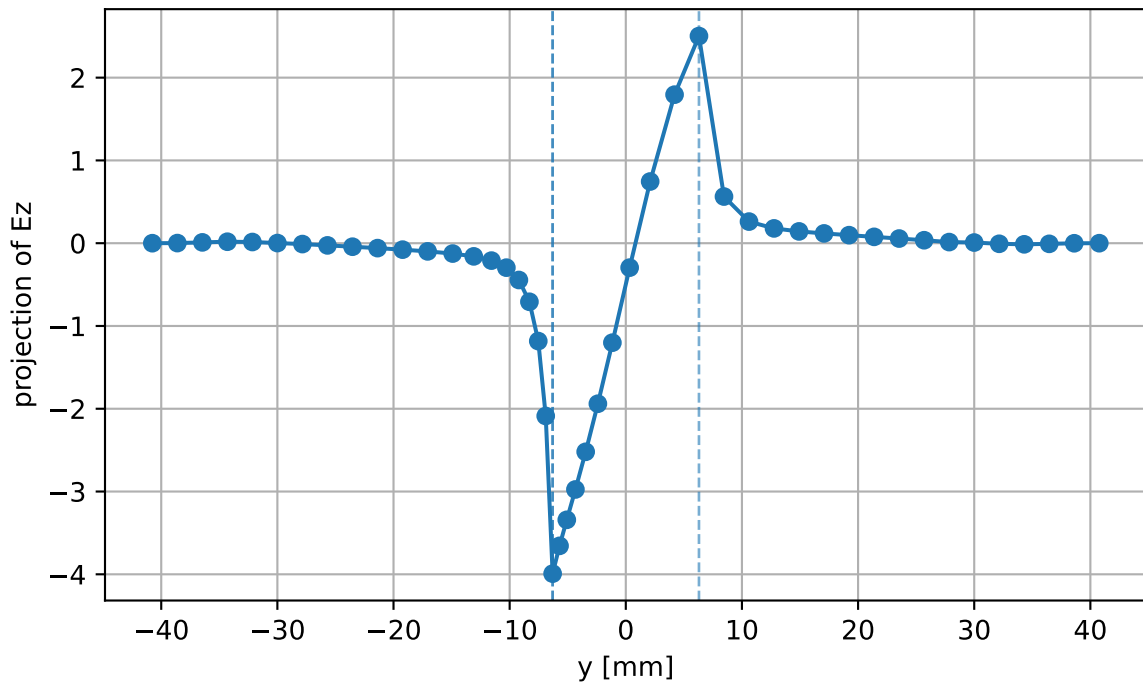
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=27$, $z=15$)



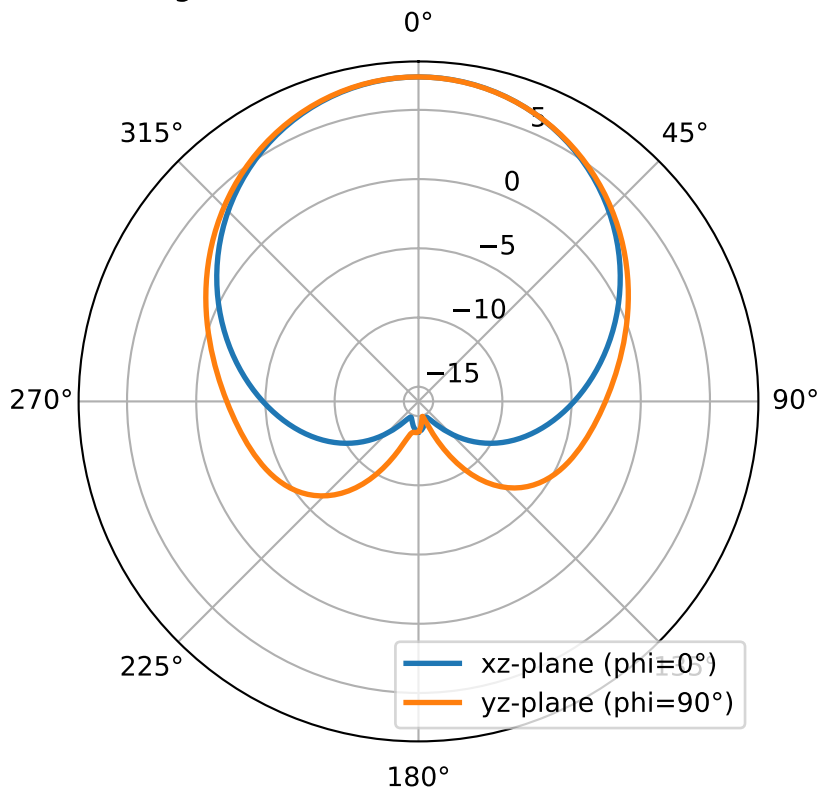
Ez snapshot (dphi=-92.31deg) slice at $z = 0.76$ mm (idx 15)



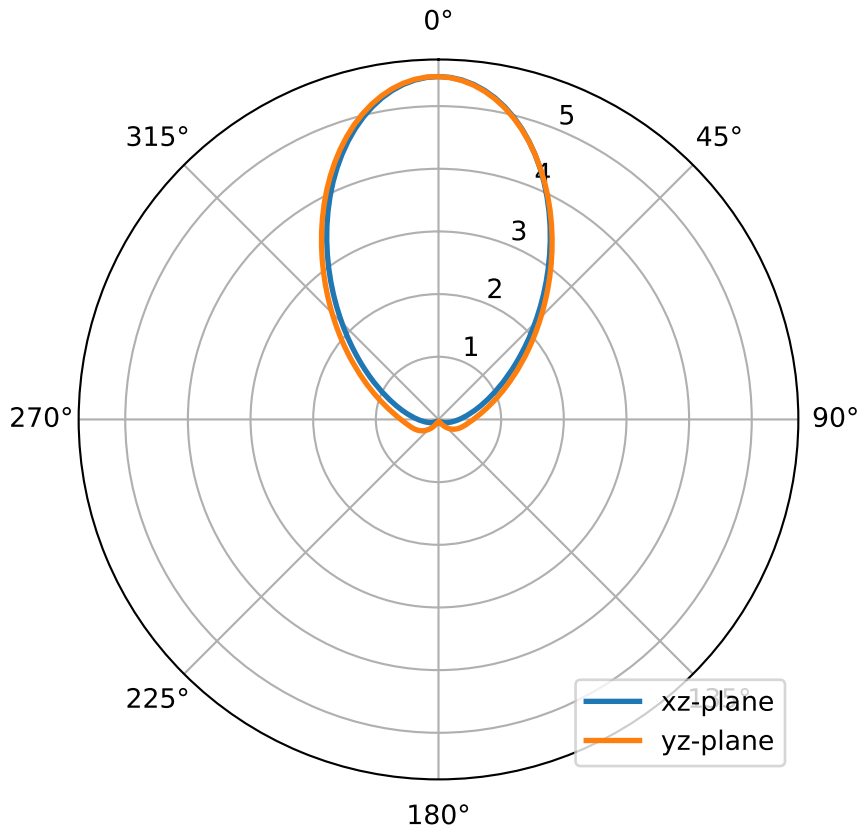
Ez snapshot (dphi=-92.31deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=27, z=15)



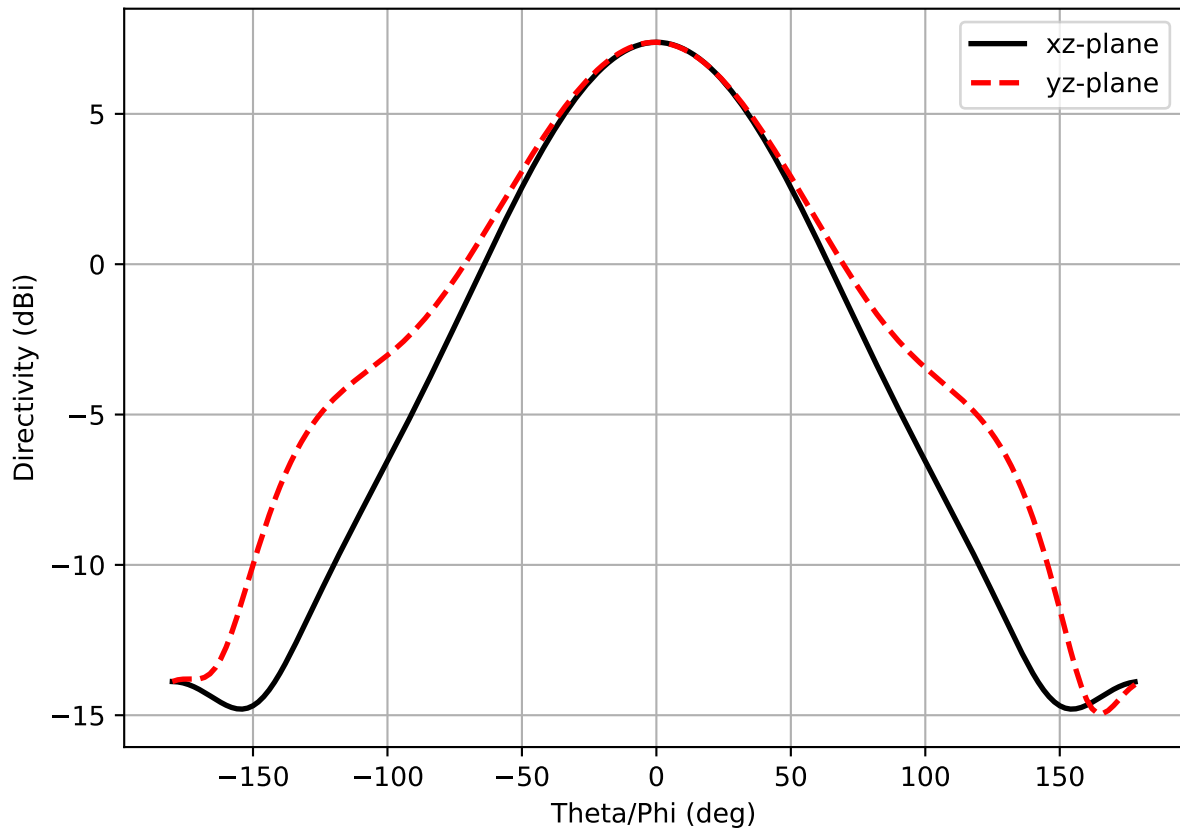
$f = 5.795 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 7.38 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 7.38 \text{ dB}$



Frequency: 5.795 GHz — Directivity (linear). Dmax: 5.472



Frequency: 5.795 GHz



3D Directivity Pattern
 $f = 5.795 \text{ GHz}$, $D_{\text{max}} = 7.38 \text{ dBi}$

