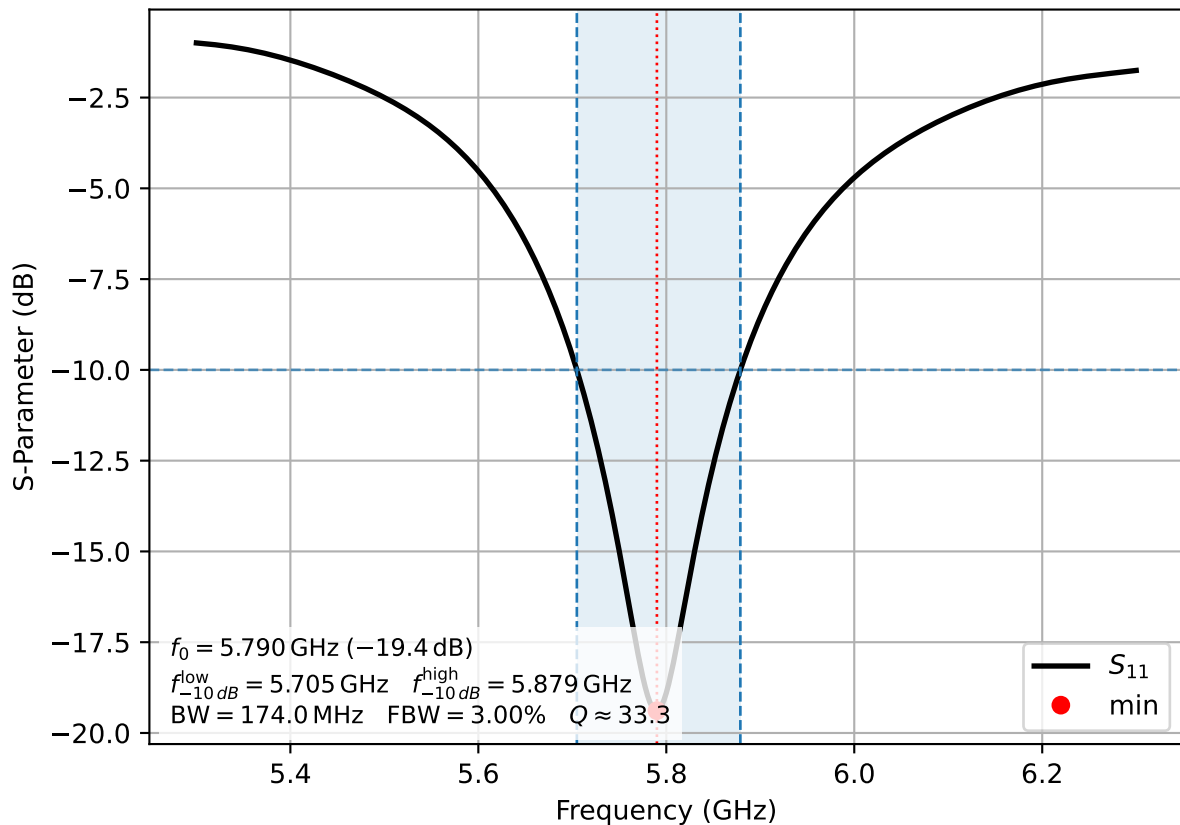


Reflection Coefficient S_{11}

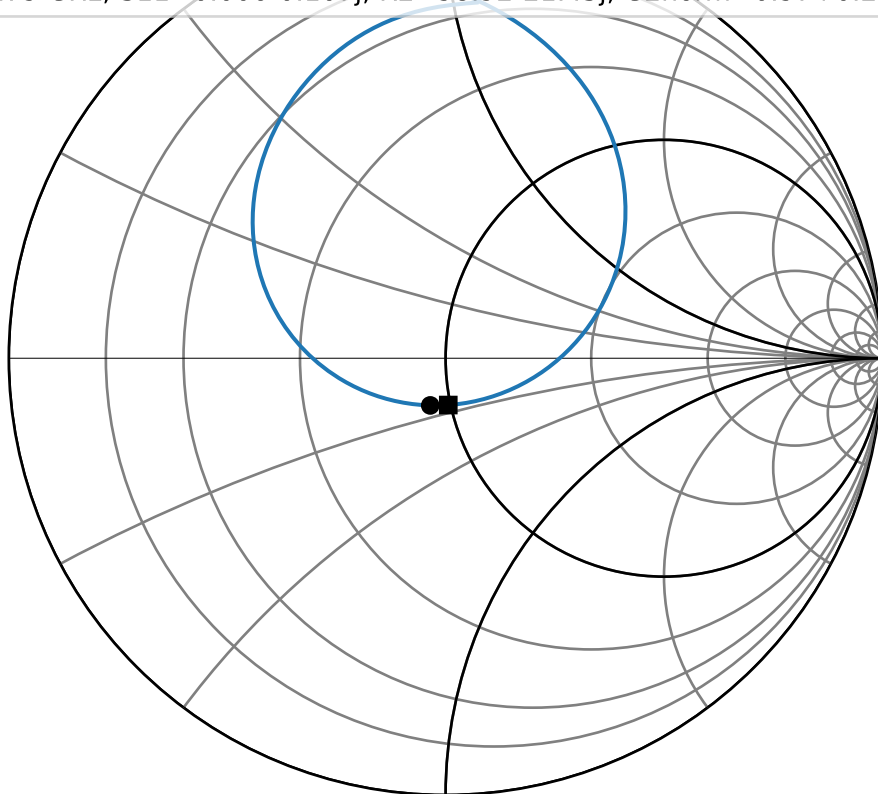


Smith Chart

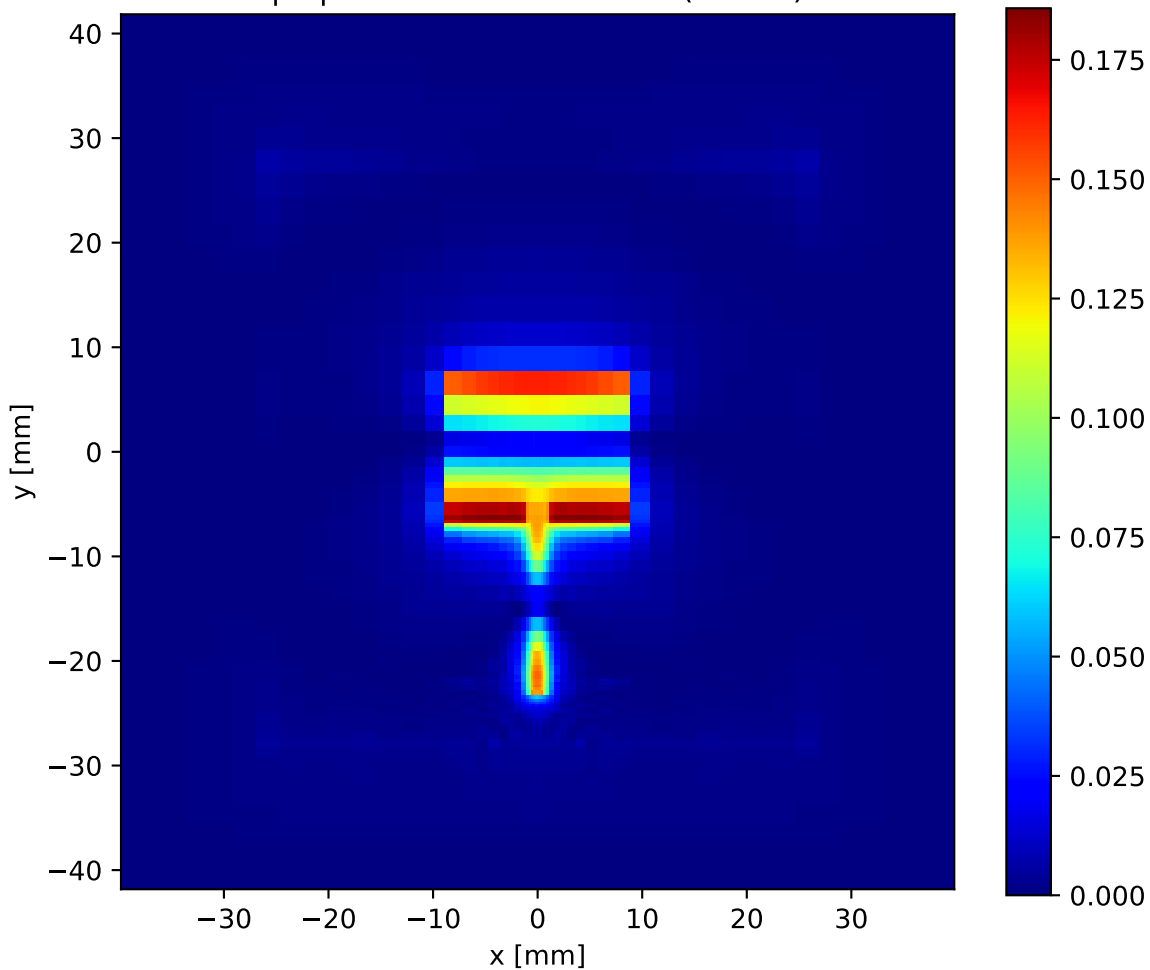
— S11 (Patch W=16.00 mm, L=13.10 mm)

● 5.80 GHz, $S_{11} = -0.035 - 0.108j$, $R = 91.14 - 19.94j$, $G_{\text{norm}} = 1.05 + 0.23j$

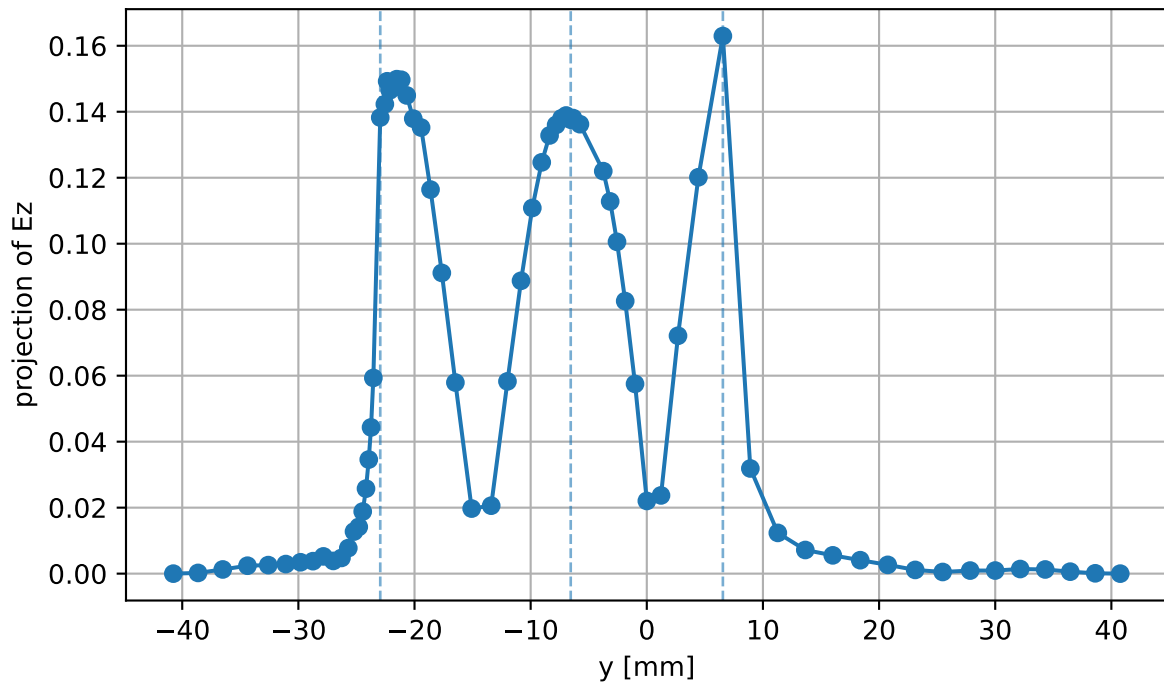
■ 5.79 GHz, $S_{11} = 0.006 - 0.107j$, $R_2 = 98.92 - 21.45j$, $G_{2\text{norm}} = 0.97 + 0.21j$



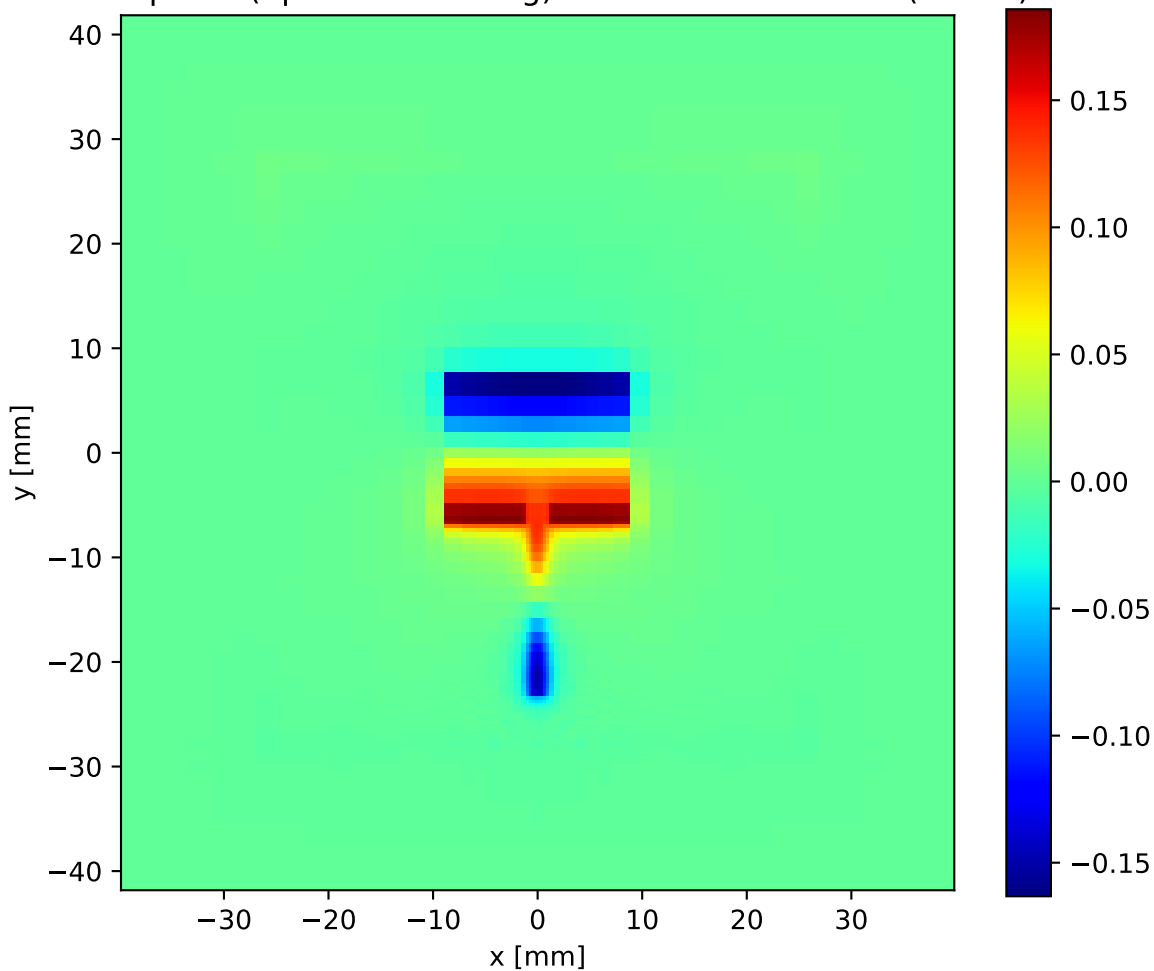
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



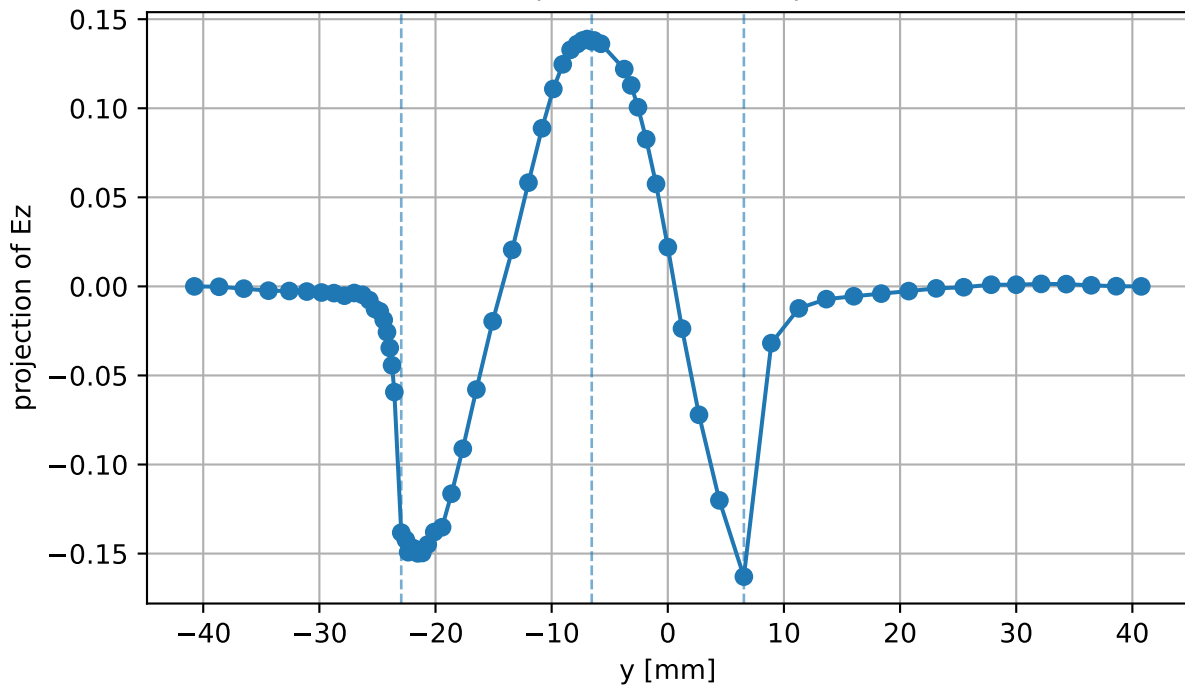
$|E_z|$ line cut along Y at $x=0.10$ mm, $z=0.76$ mm
(idx $x=27$, $z=15$)



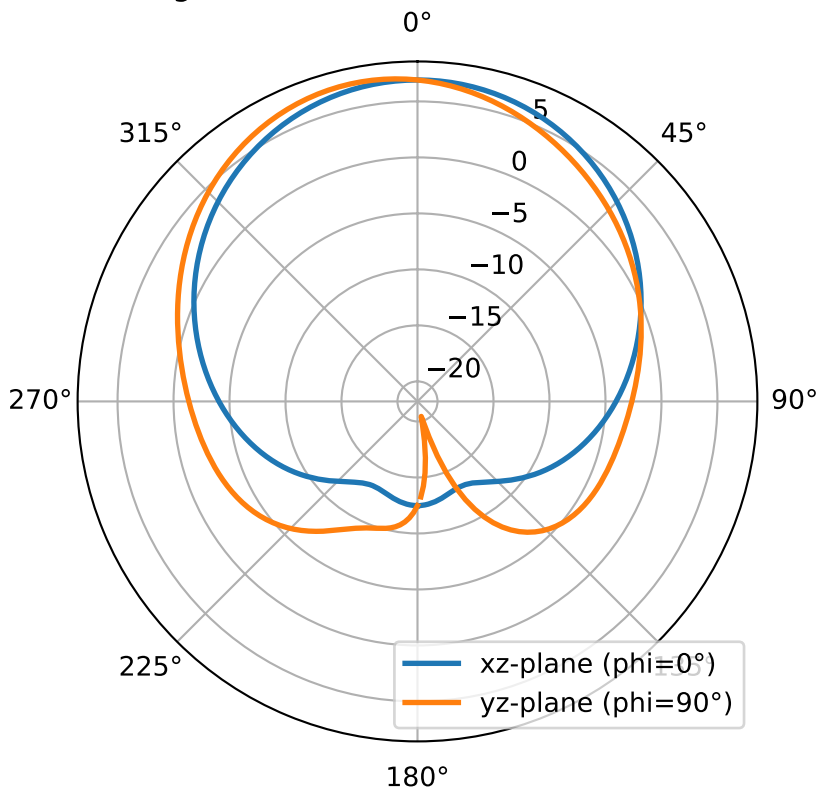
Ez snapshot (dphi=-179.82deg) slice at z = 0.76 mm (idx 15)



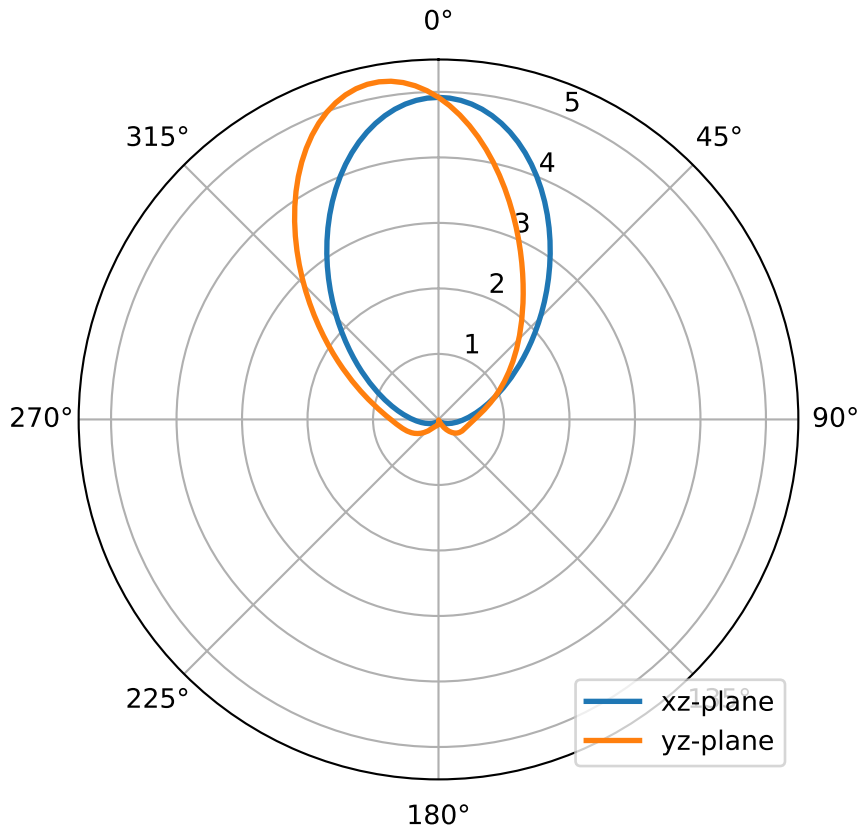
Ez snapshot (dphi=-179.82deg) line cut along Y at x=0.10 mm, z=0.76 mm
(idx x=27, z=15)



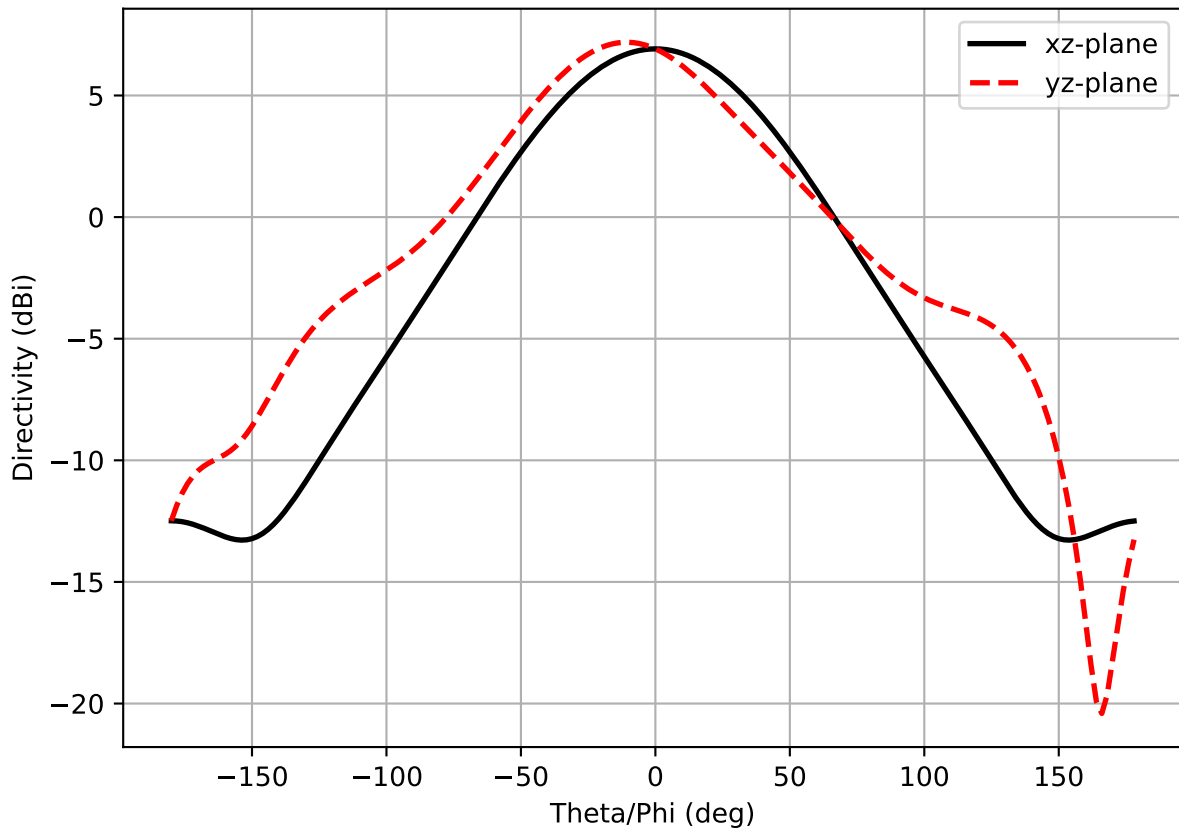
$f = 5.790 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 7.19 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 7.19 \text{ dB}$



Frequency: 5.790 GHz — Directivity (linear). Dmax: 5.233



Frequency: 5.790 GHz



3D Directivity Pattern
 $f = 5.790$ GHz, $D_{\max} = 7.19$ dBi

