

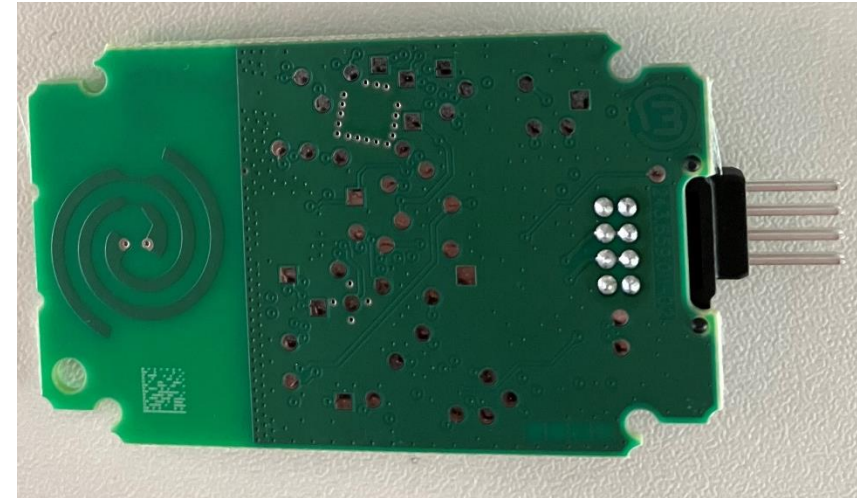
ANTENNA DIAGRAMS FOR MU3

- Kind of test item: UWB ranging module
- Model name: MU3
- Manufacturer: Marquardt GmbH
Schloss-Str. 16
78604 Rietheim-Weilheim
GERMANY

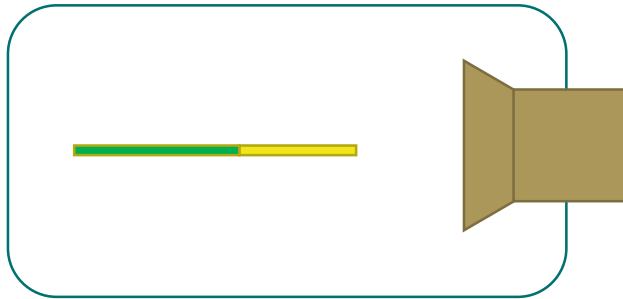
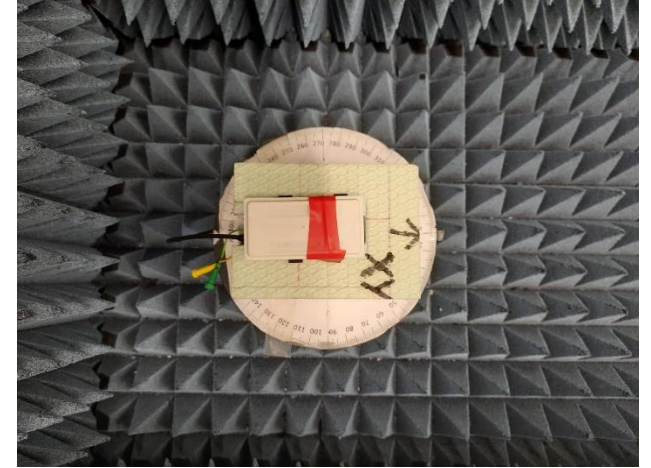
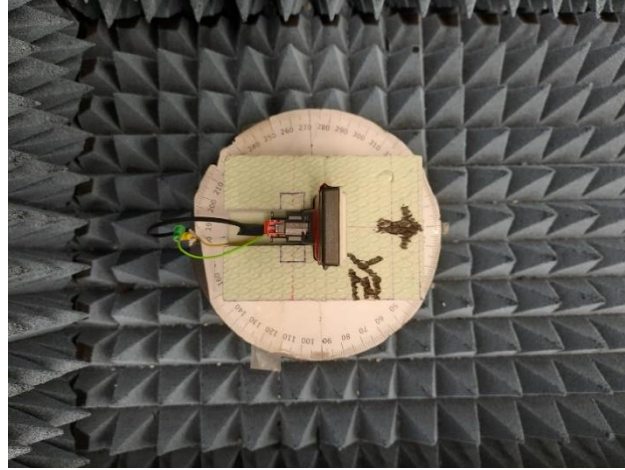
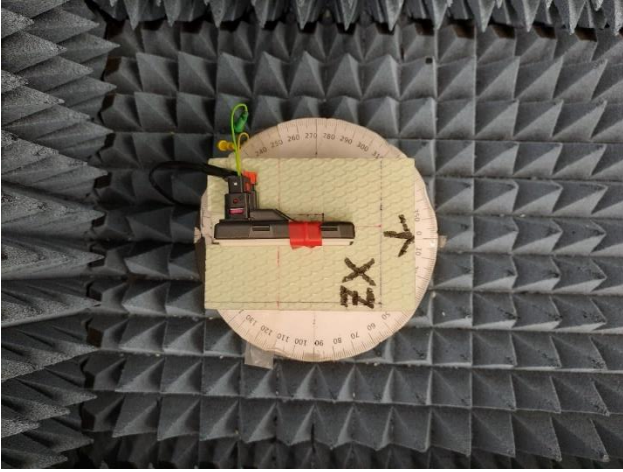
- Frequency: Channel 5: 6.4896 GHz
Channel 6: 6.9888 GHz
Channel 8: 7.4880 GHz
Channel 9: 7.9872 GHz

- Antenna: Integrated PCB circular polarised antenna

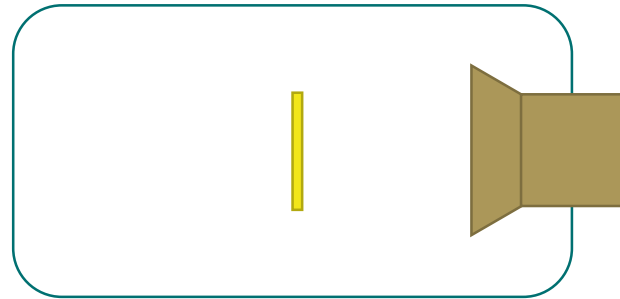
- Test mode: EUT is transmitting carrier at channel center frequency



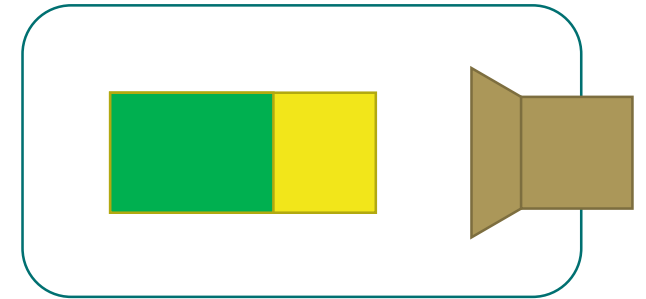
SAMPLE ORIENTATIONS W/ HOUSING



x - axis



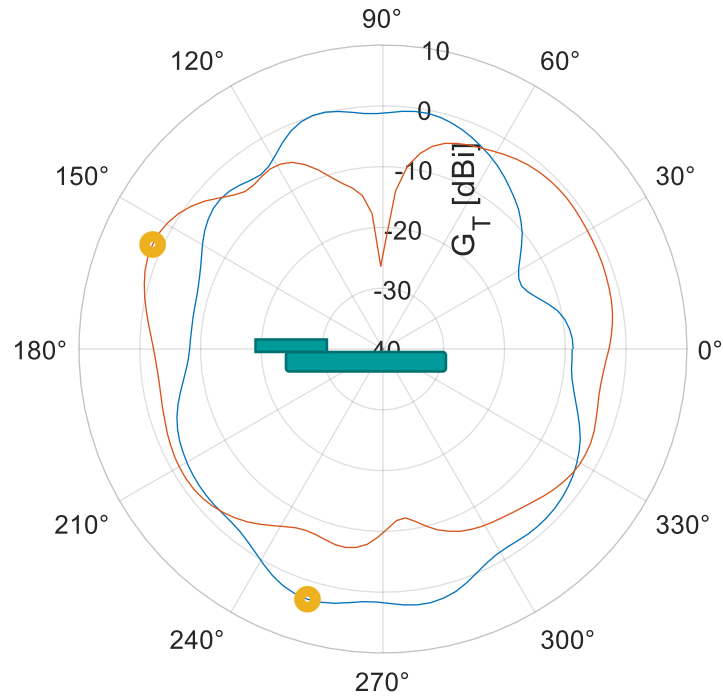
y - axis



z - axis

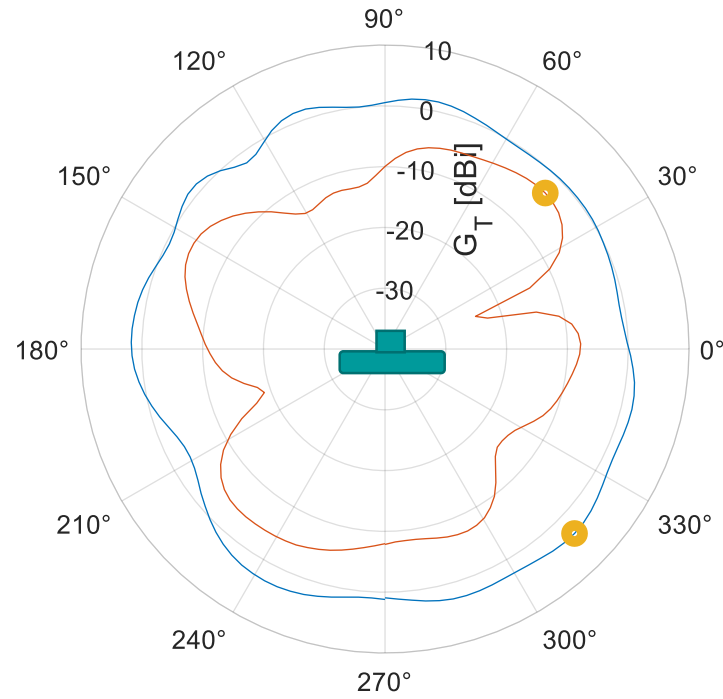
CH5 - GAIN

x-axis - CH5 - 6489.6 MHz



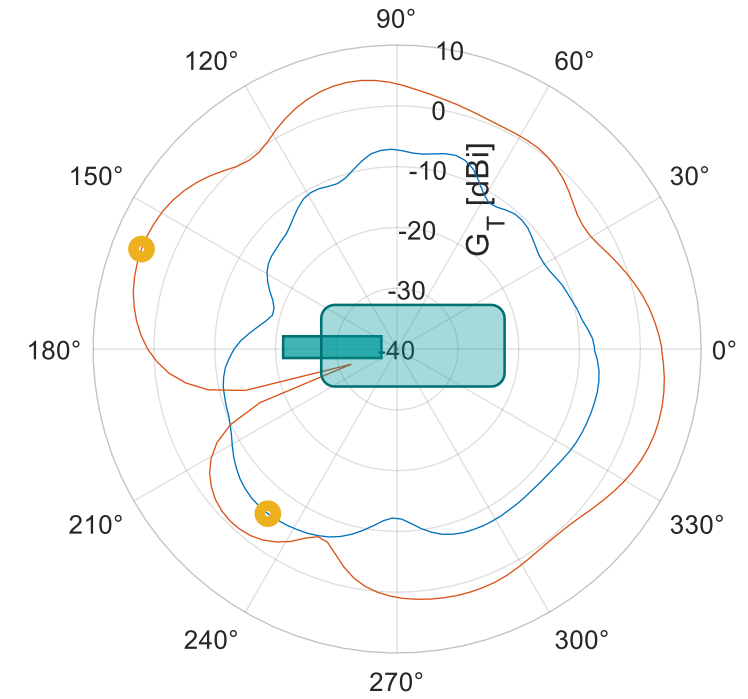
— vertical (max Gain= 2.98 dBi)
 — horizontal (max Gain= 1.6 dBi)

y-axis - CH5 - 6489.6 MHz



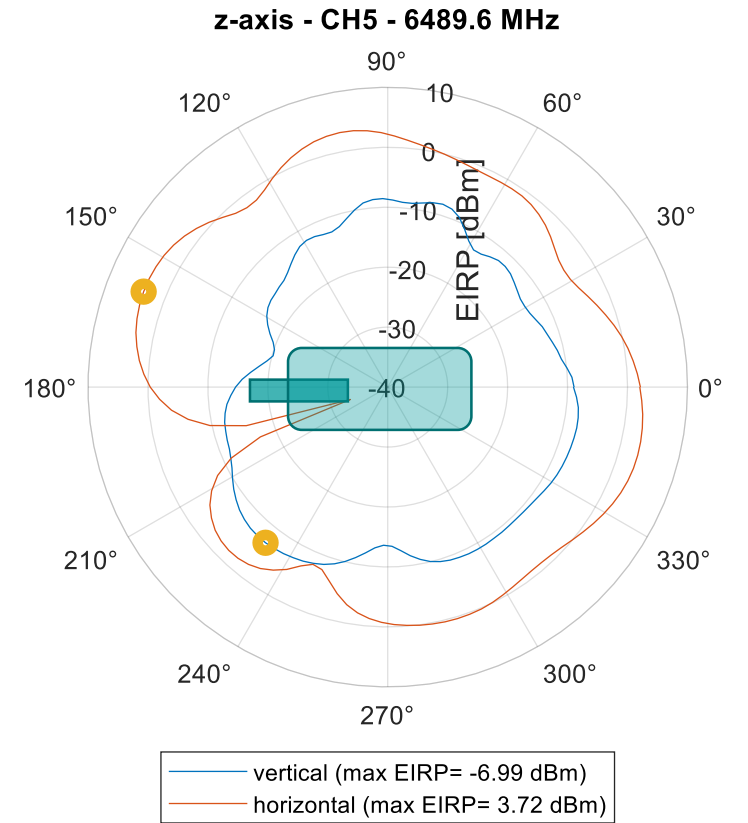
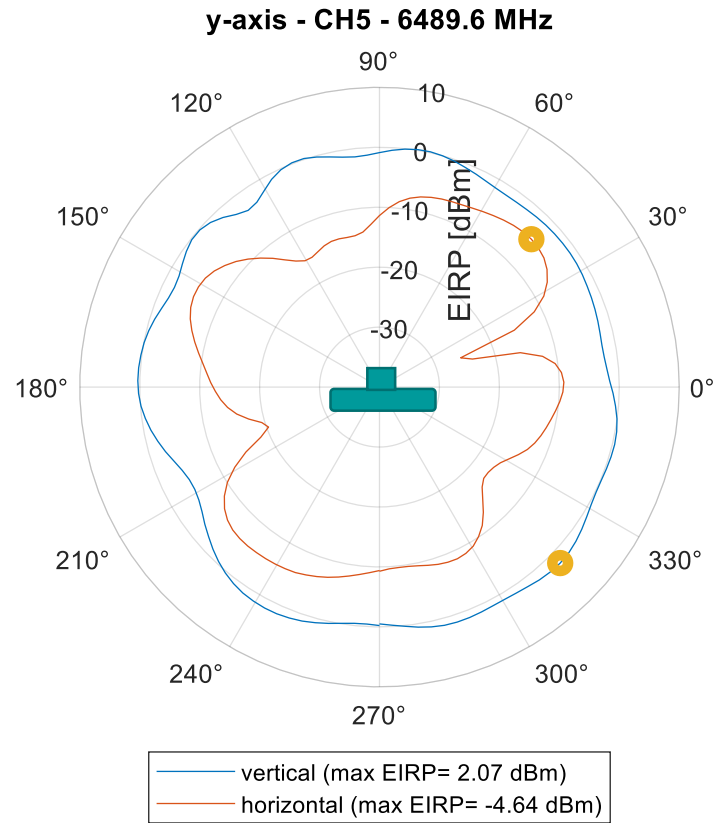
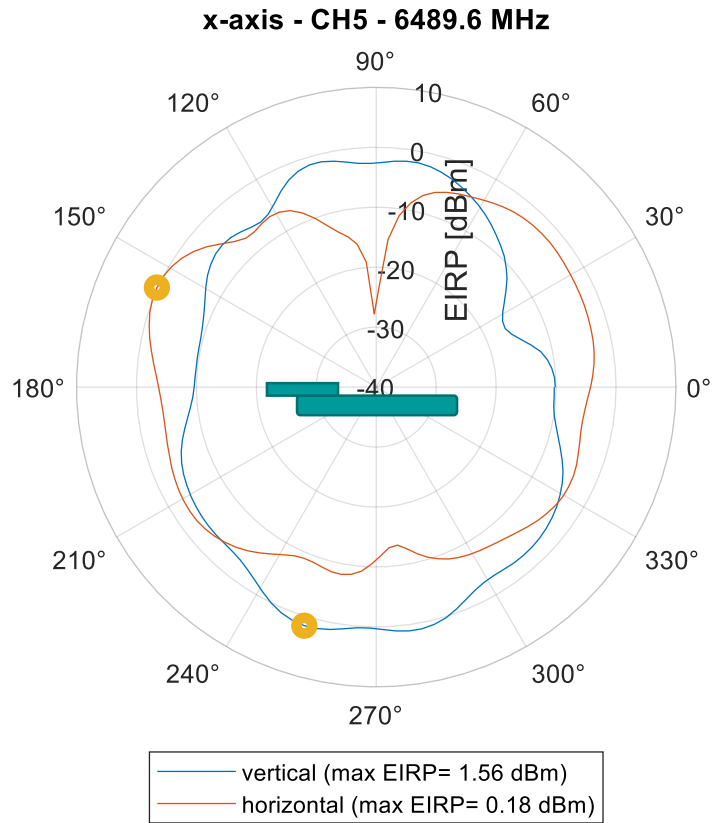
— vertical (max Gain= 3.49 dBi)
 — horizontal (max Gain= -3.22 dBi)

z-axis - CH5 - 6489.6 MHz



— vertical (max Gain= -5.57 dBi)
 — horizontal (max Gain= 5.14 dBi)

CH5 - EIRP

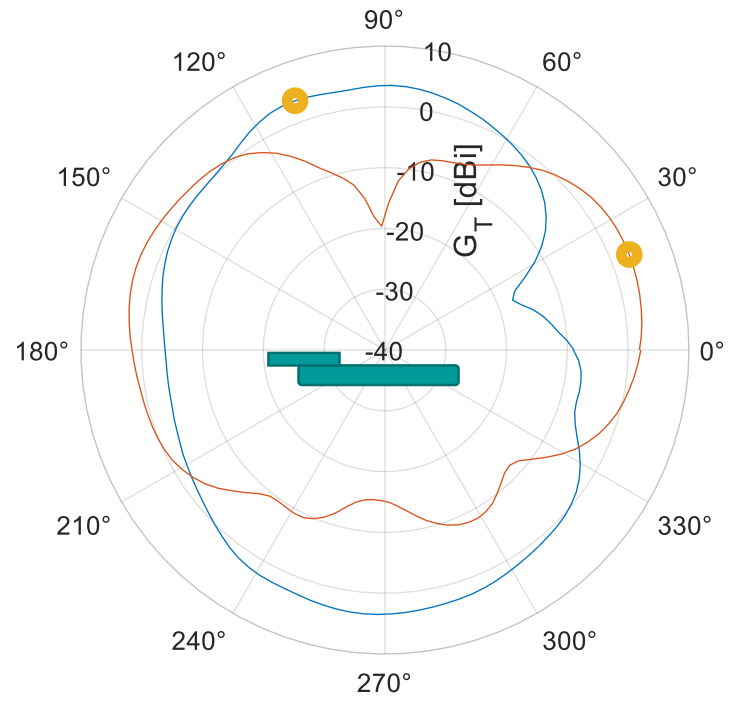




plot_CH9.m

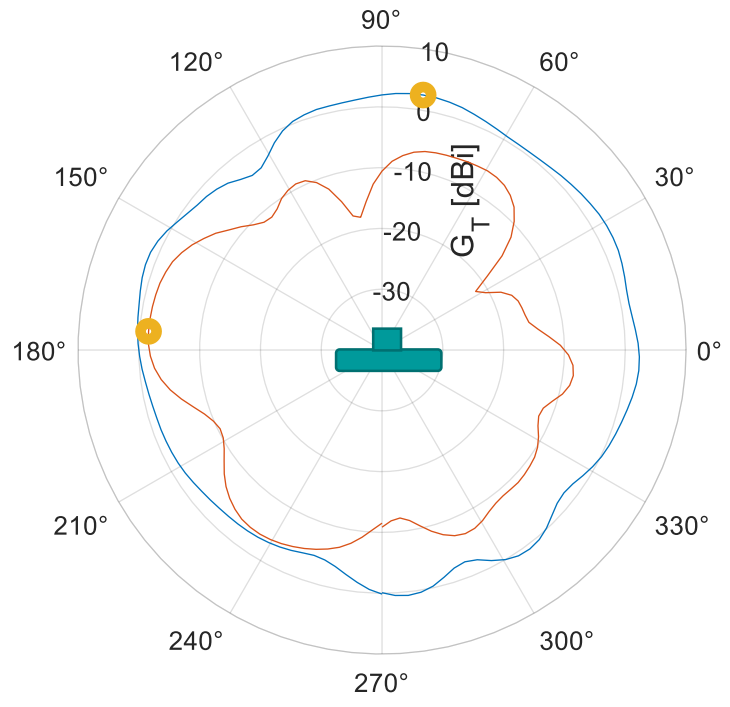
CH6 - GAIN

x-axis - CH6 - 6988.8 MHz



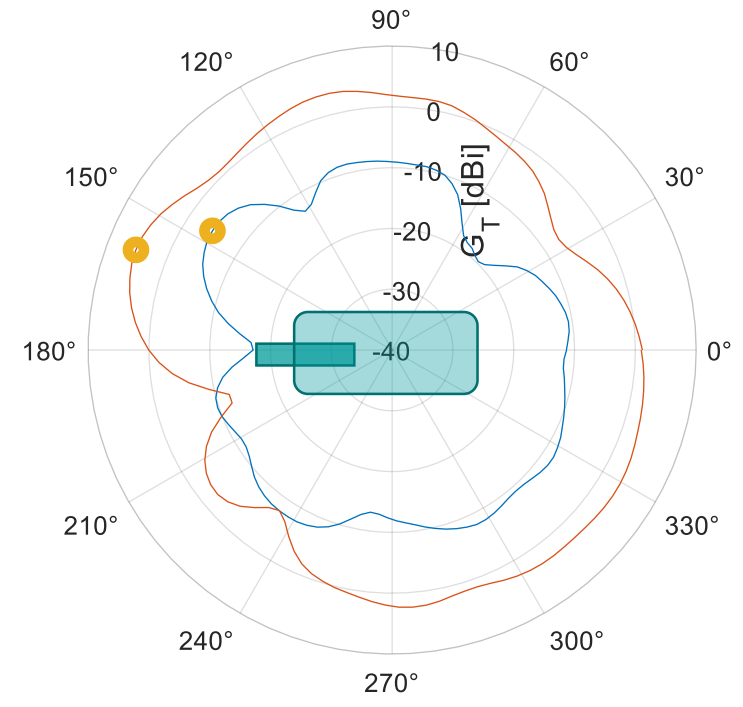
— vertical (max Gain= 3.59 dBi)
 — horizontal (max Gain= 3.15 dBi)

y-axis - CH6 - 6988.8 MHz



— vertical (max Gain= 2.48 dBi)
 — horizontal (max Gain= -1.48 dBi)

z-axis - CH6 - 6988.8 MHz

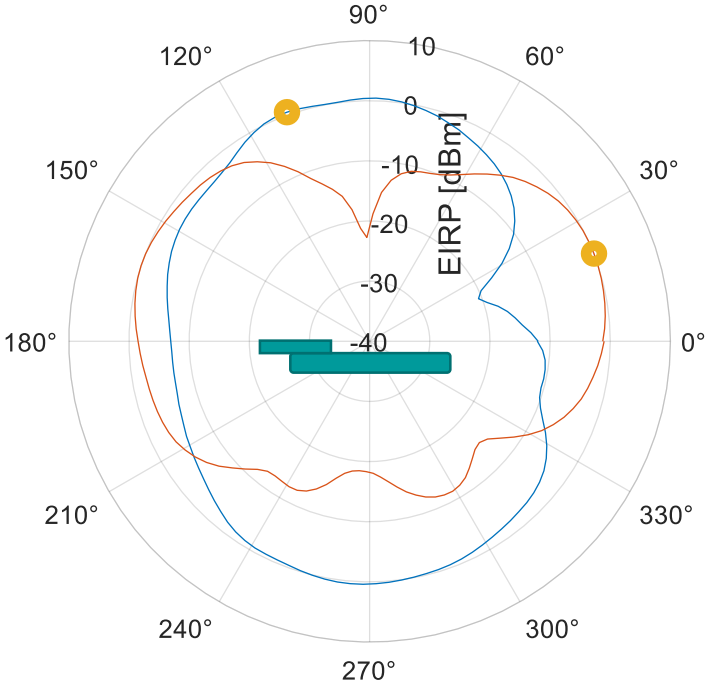


— vertical (max Gain= -4.53 dBi)
 — horizontal (max Gain= 5.24 dBi)

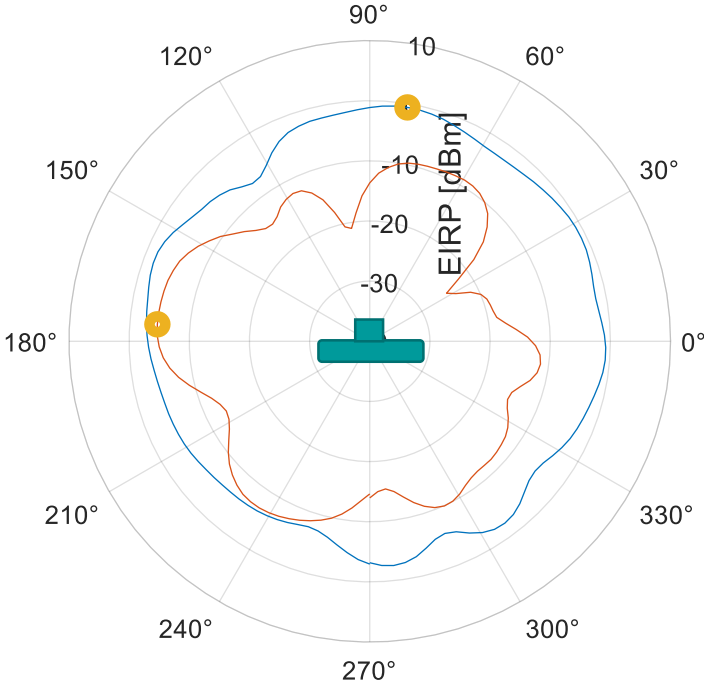


CH6 - EIRP

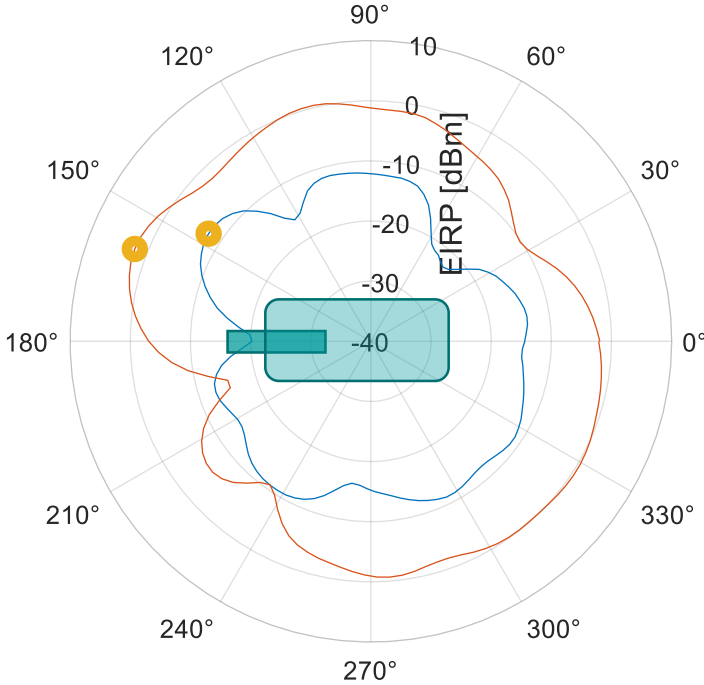
x-axis - CH6 - 6988.8 MHz



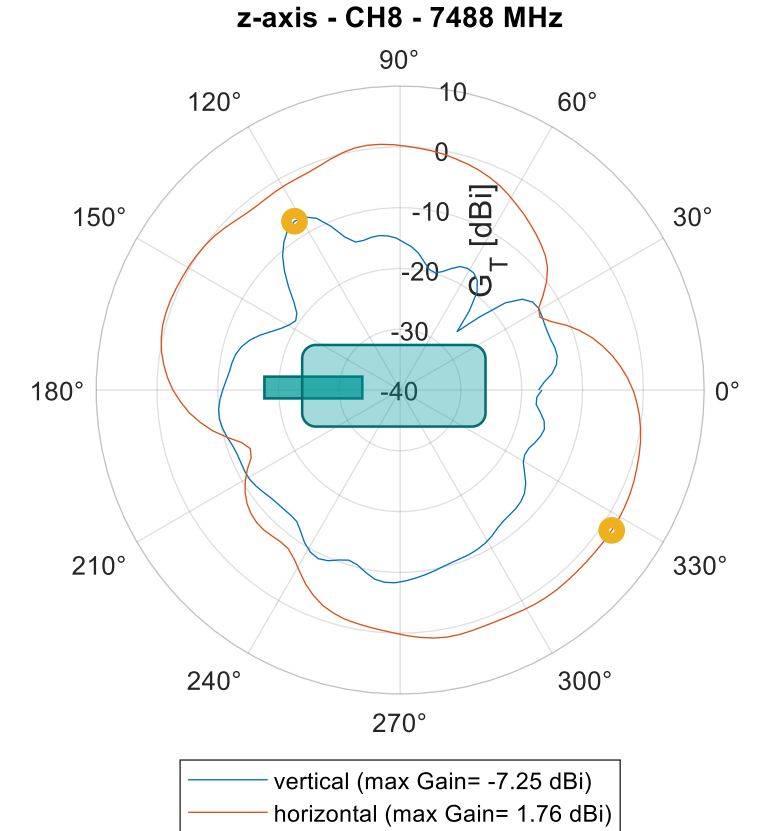
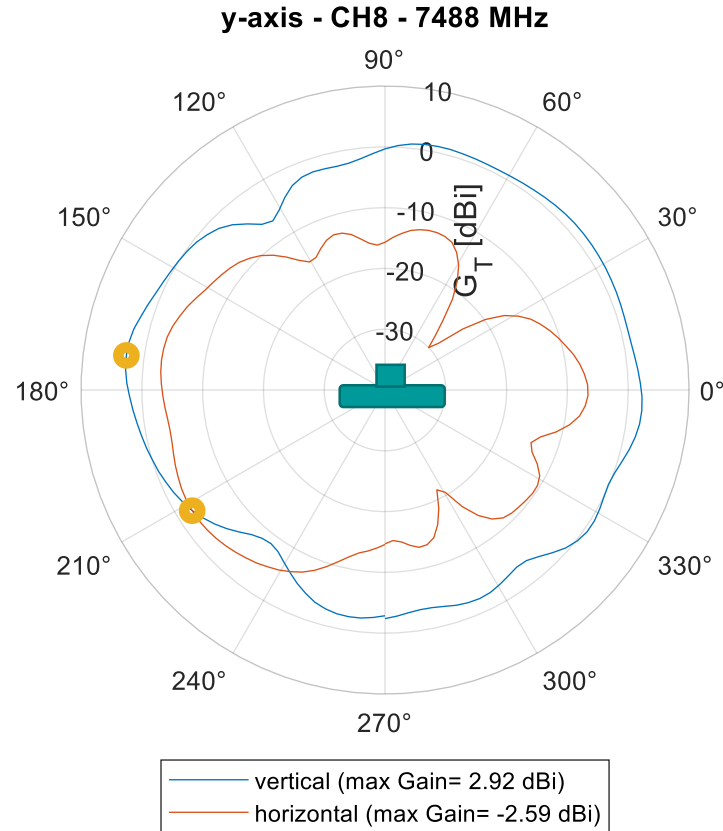
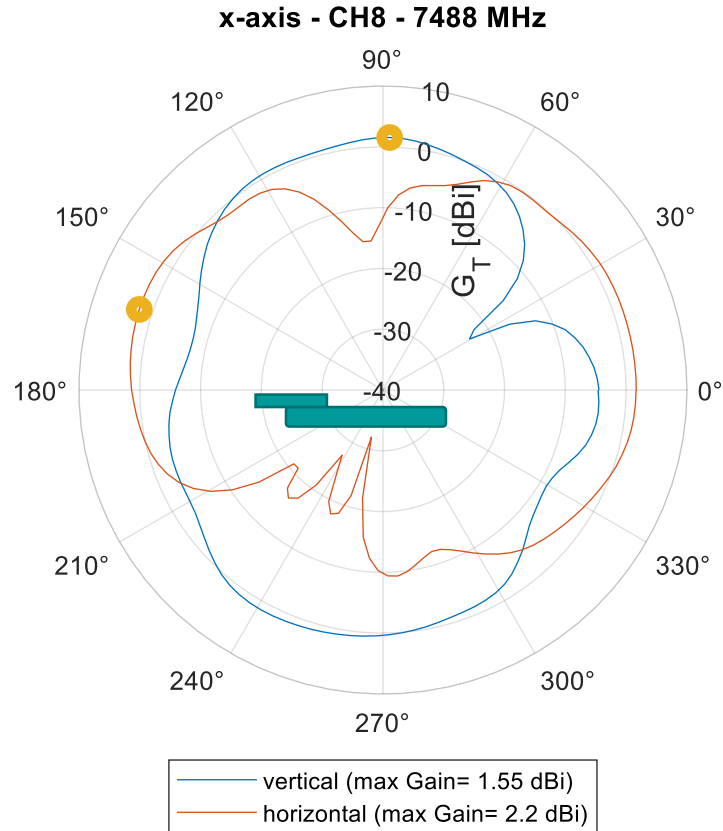
y-axis - CH6 - 6988.8 MHz



z-axis - CH6 - 6988.8 MHz

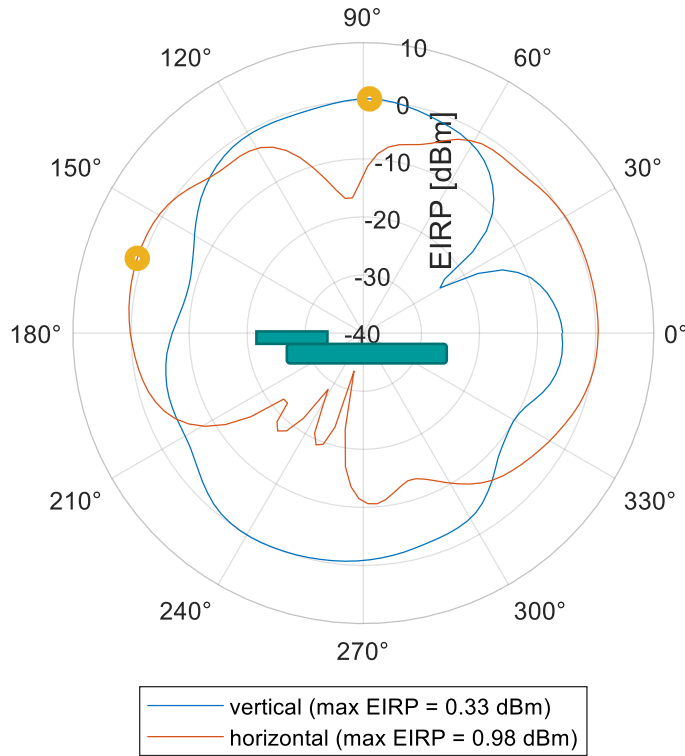


CH8 - GAIN

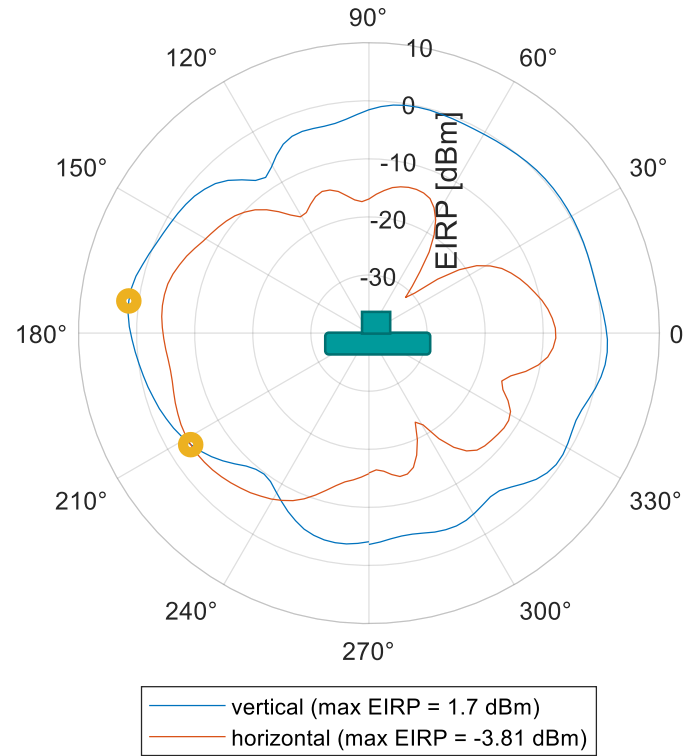


CH8 - EIRP

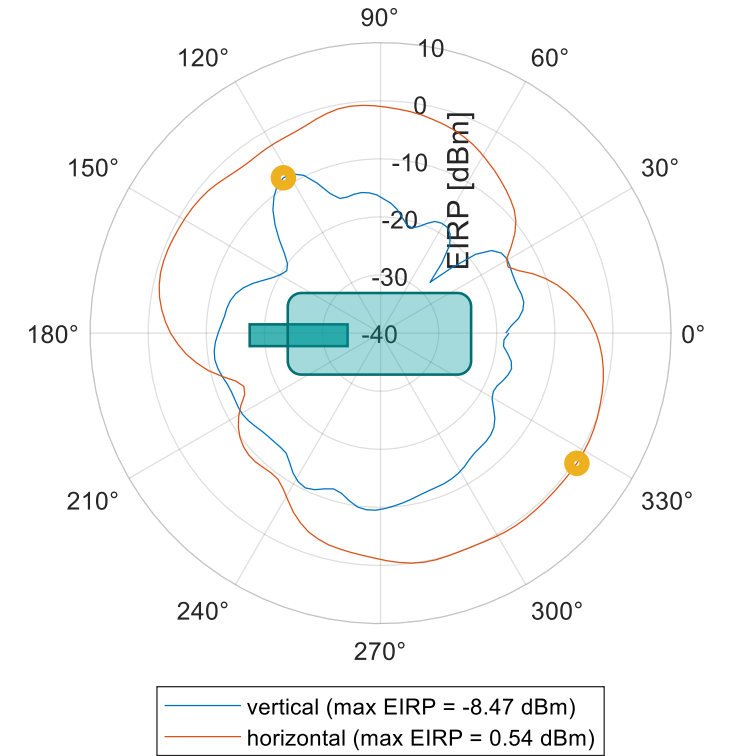
x-axis - CH8 - 7488 MHz



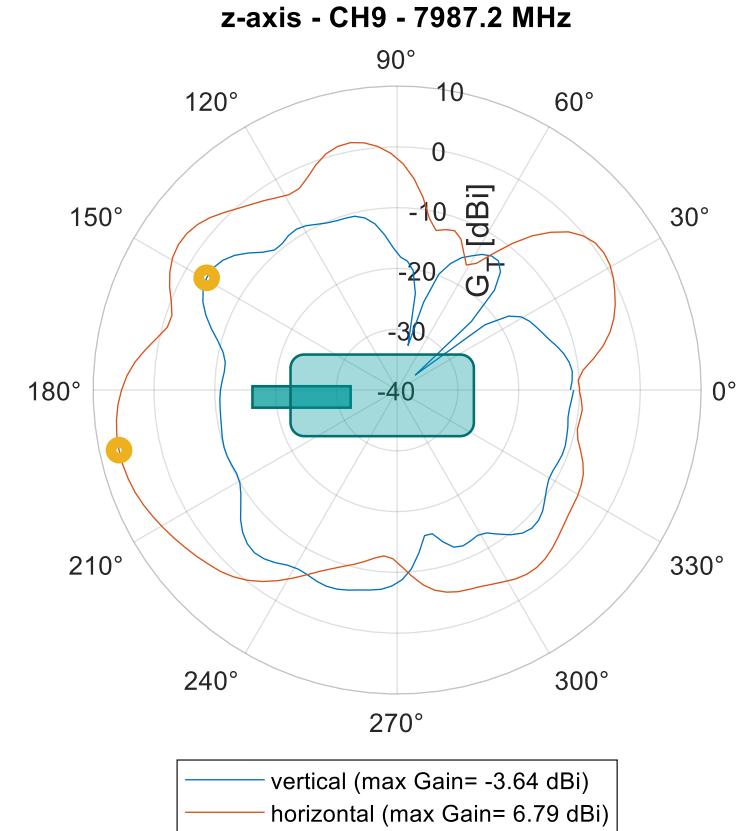
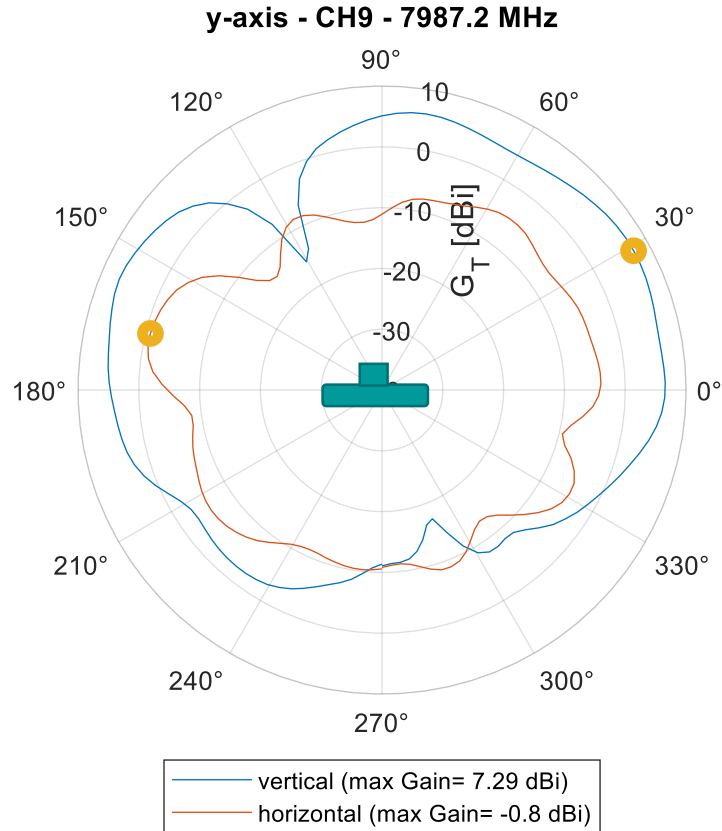
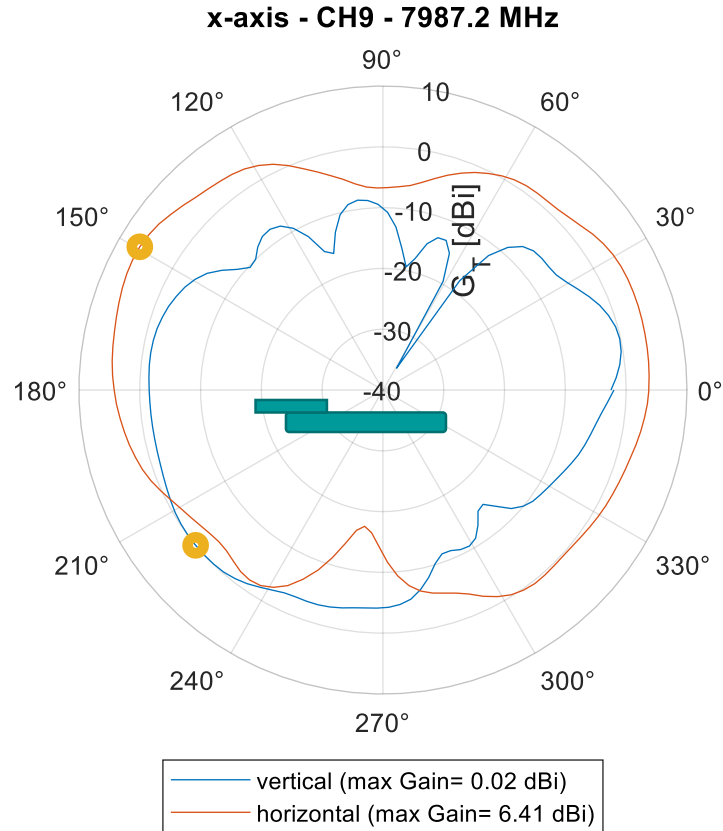
y-axis - CH8 - 7488 MHz



z-axis - CH8 - 7488 MHz



CH9 - GAIN



CH9 - EIRP

