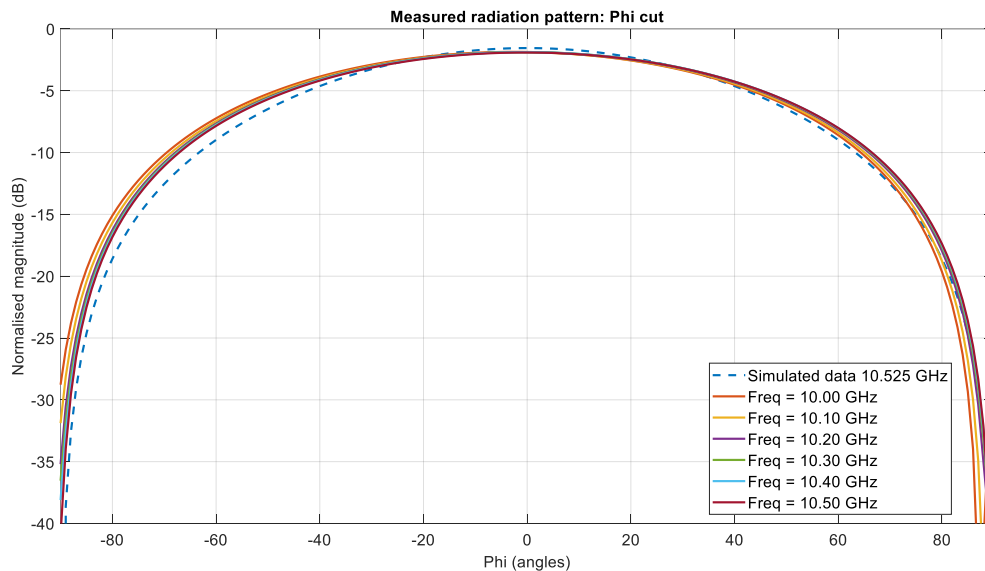
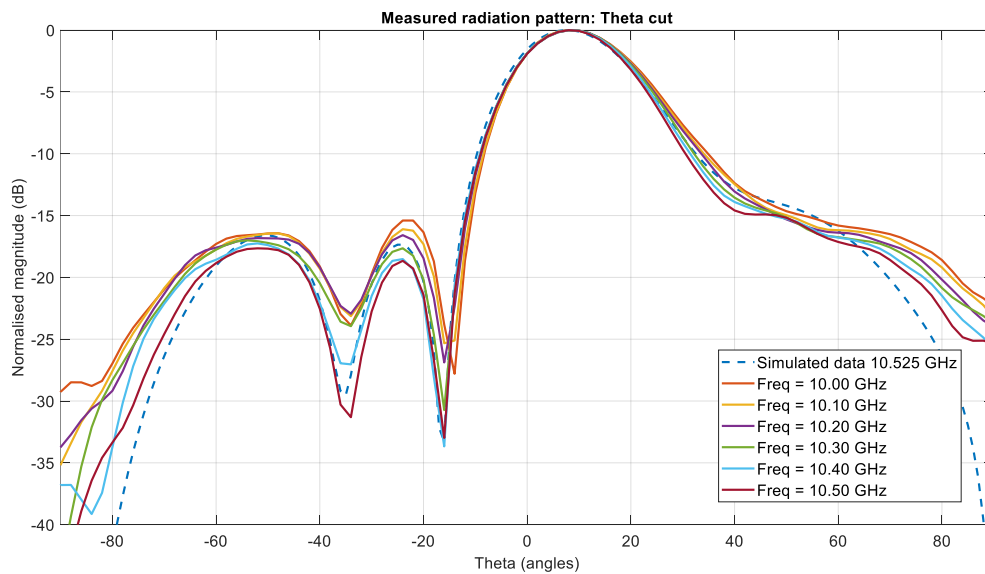


# Direction Antenna Information

## Antenna Radiation Pattern

The installation of the radar system at the David Leadbetter Academy golf driving range will use 10 radar sensors with one transmit antenna each. The relative radiation patterns for all of these identical transmit antennas are illustrated below. The antennas utilize a fan beam that is relatively narrow in the vertical plane (theta cut) and wide in the horizontal plane (phi cut).

The maximum realised gain of these antennas is between 10 – 11dB.



## Antenna Pointing Directions

All 10 radar sensors (transmit antennas) point towards the inside of the driving range. The vertical orientation for all antennas is towards the horizon ( $0^\circ$ ) or tilted slightly downwards. The horizontal orientation (azimuth pointing direction) for the antennas is illustrated below.

