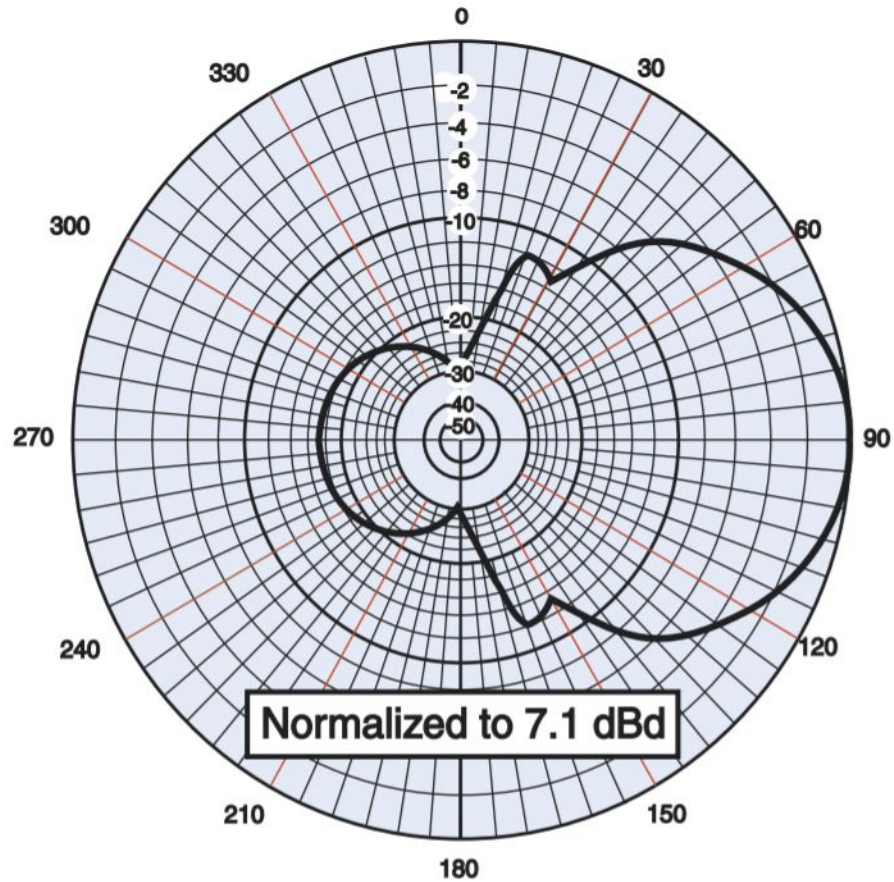


VHF Ground Station Vertical Field Pattern

Yagi Antenna



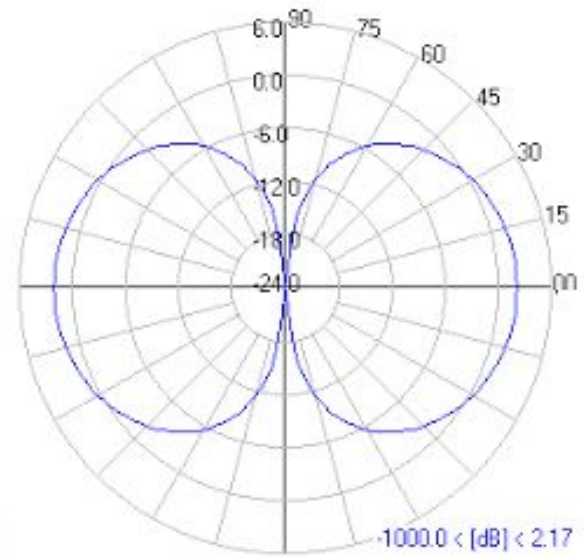
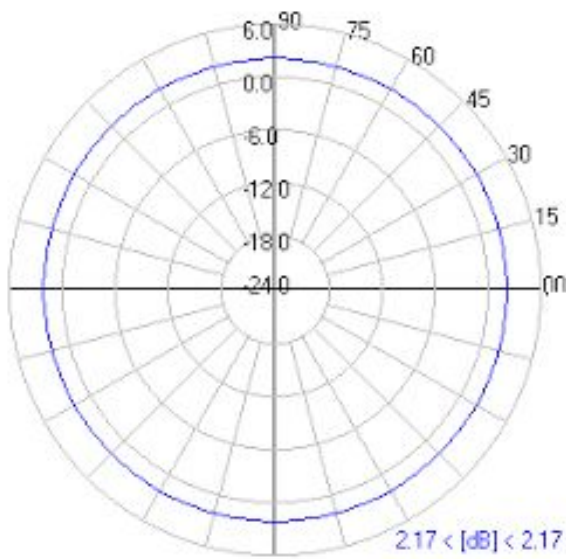
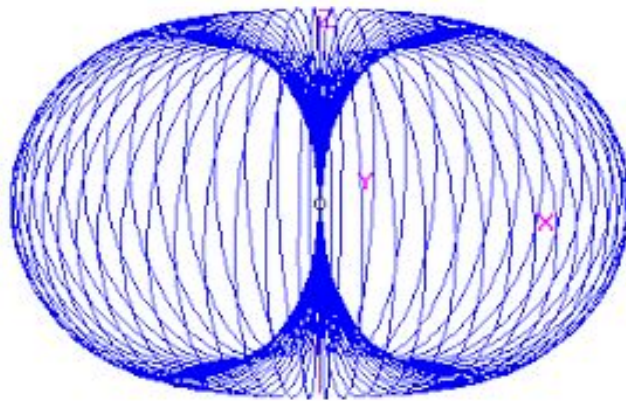
Y1503

The Nest ground station uses a model Y1363 Yagi antenna, which has a gain pattern equivalent to the Y1503 pattern included above from the Antennex Directional Yagis datasheet.

The ground station has az/el rotators and will point between 10 and 90 degrees in elevation and 0 to 360 degrees in azimuth.

Satellite VHF Pattern

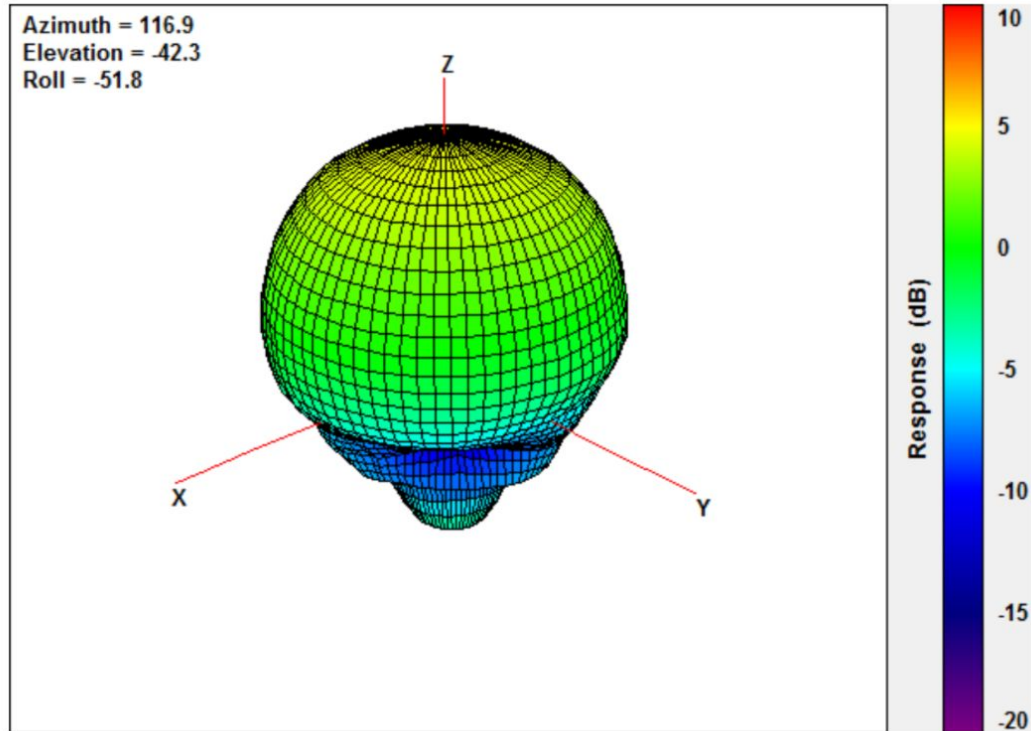
Omnidirectional Dipole Antenna



Satellite Iridium Pattern

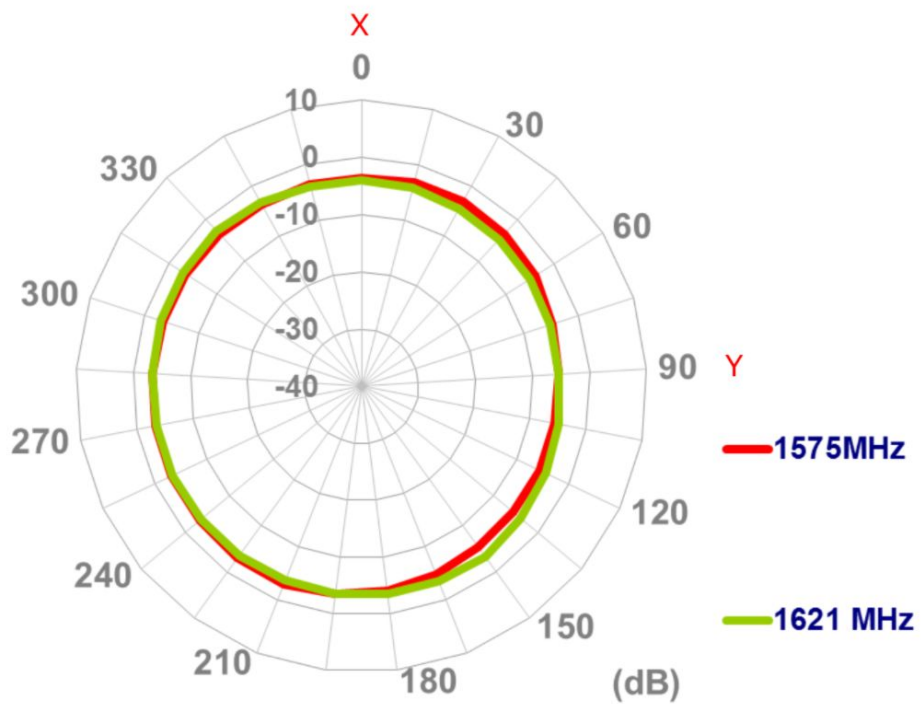
Patch Antenna

4.2. 3D Radiation Pattern @ 1621MHz

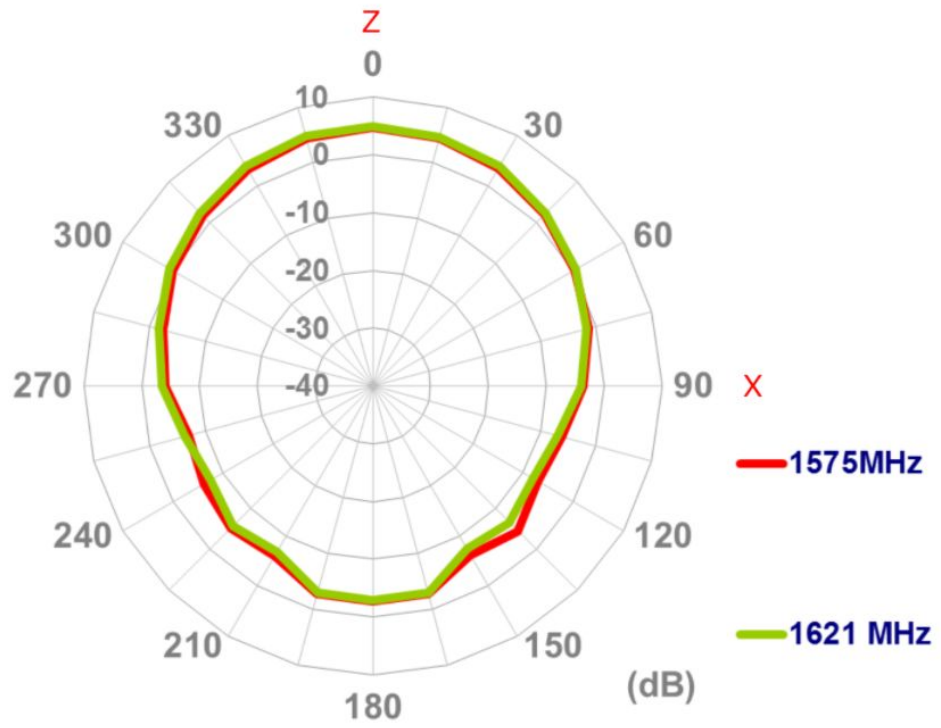


4.3. 2D Radiation Pattern

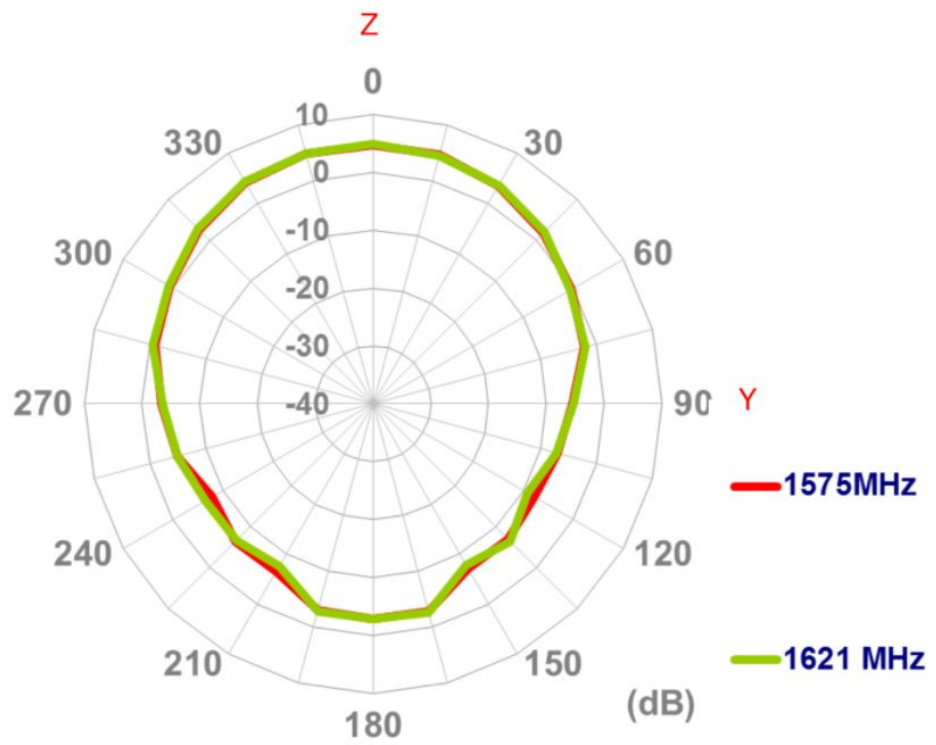
XY Plane



XZ Plane



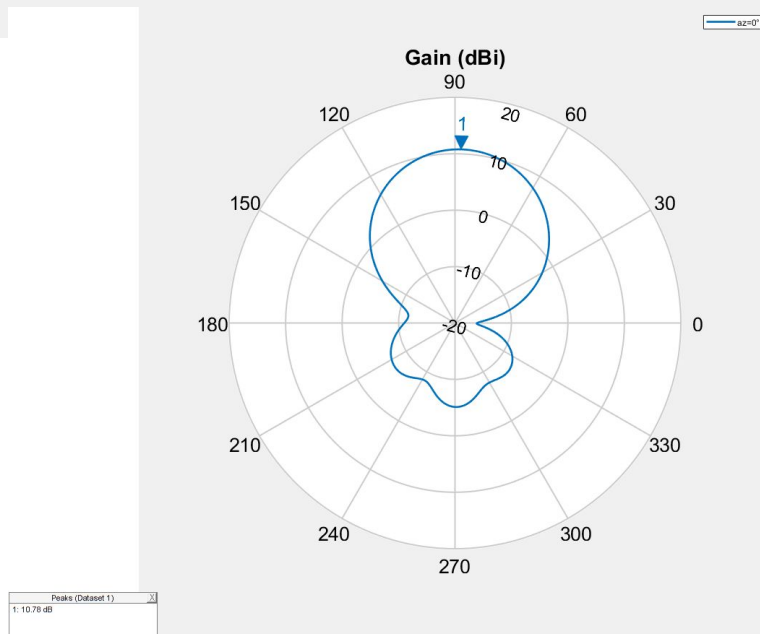
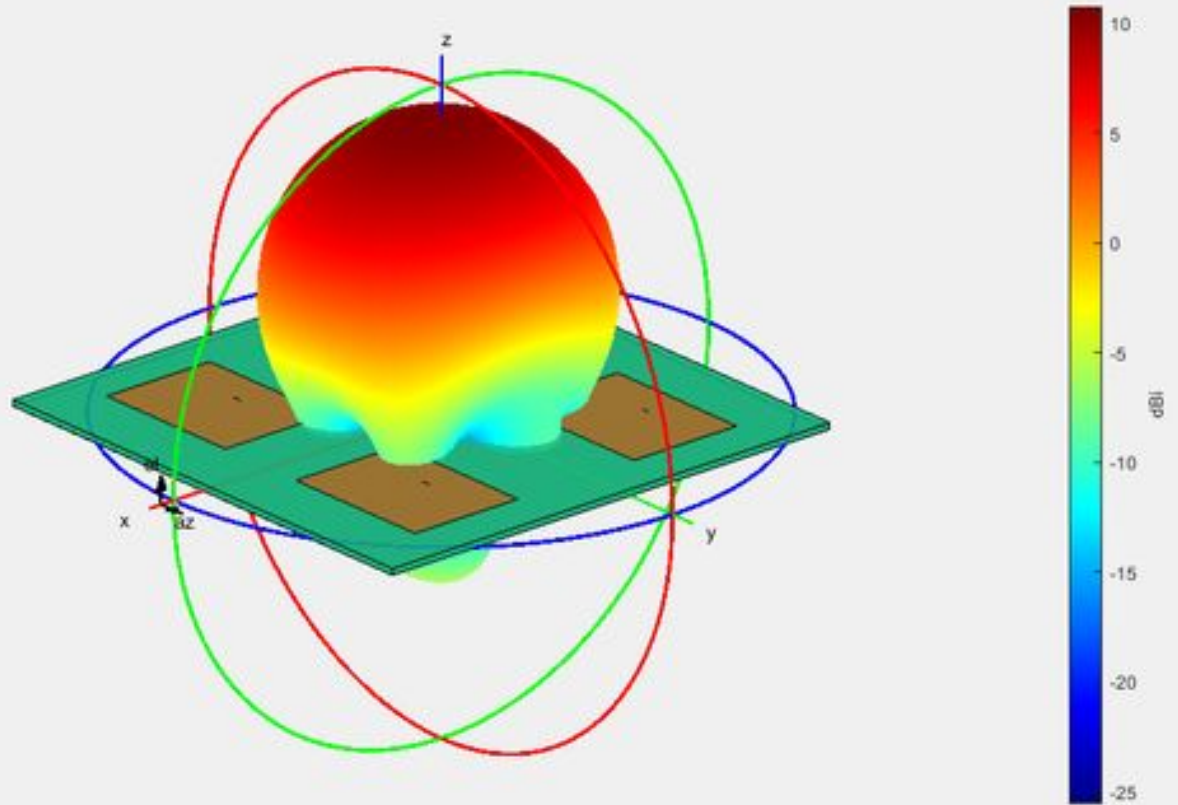
ZY Plane



C-band Radar Antenna Radiation Patterns

Output : Gain
Frequency : 5.225 GHz
Max value : 10.8 dBi
Min value : -25.6 dBi
Azimuth : [-180°, 180°]
Elevation : [-90°, 90°]

Patch Array Antenna



The radar uses a 2x2 patch array antenna designed by Care Weather. The radiation pattern is approximately axisymmetric about the z-axis.