



SPECIFICATION

5G NTN – L Band Patch Antenna



Model No. : UPH5NL02



1. General Description

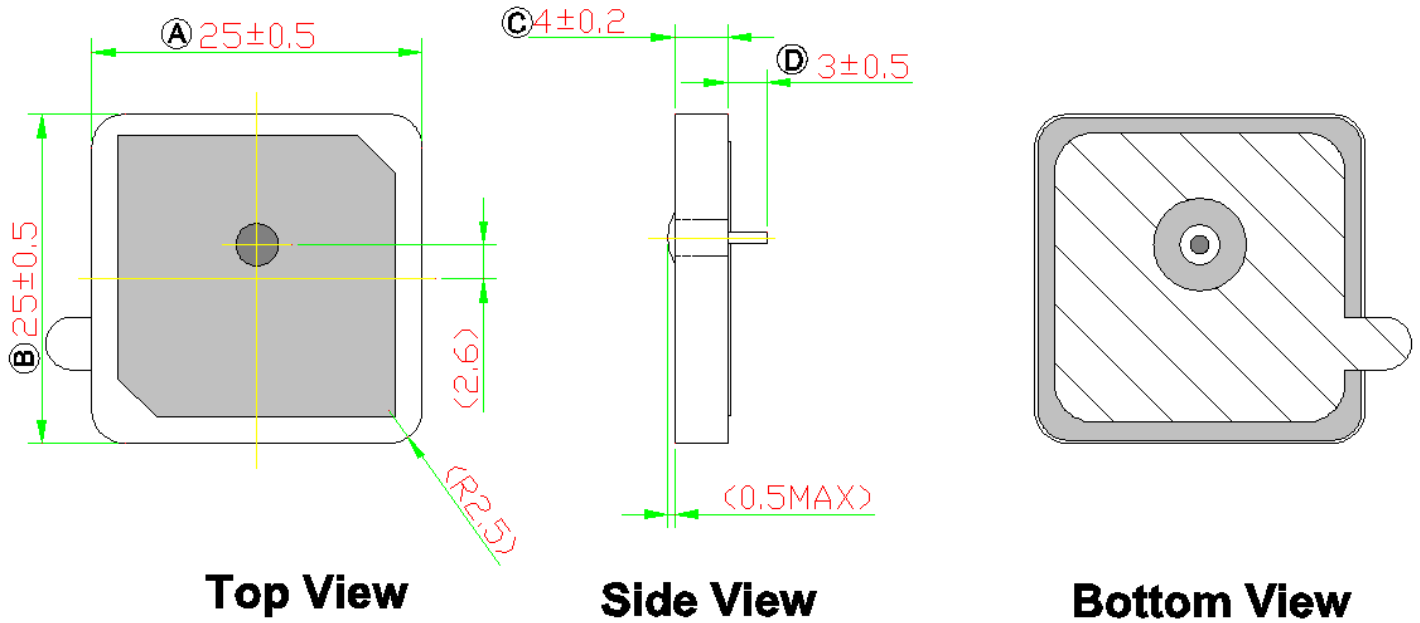
1.1 Electrical Properties

| Parameter | Description |
|----------------------------|--------------------------------|
| Application | 5G NTN - L band |
| Frequency Band | 1525~1559 MHz 1626~1660 MHz |
| Nominal Impedance | 50 Ω |
| Polarization | R.H.C.P. |
| ※With 70 x 70 mm GND Plane | |

1.2 Mechanical Properties

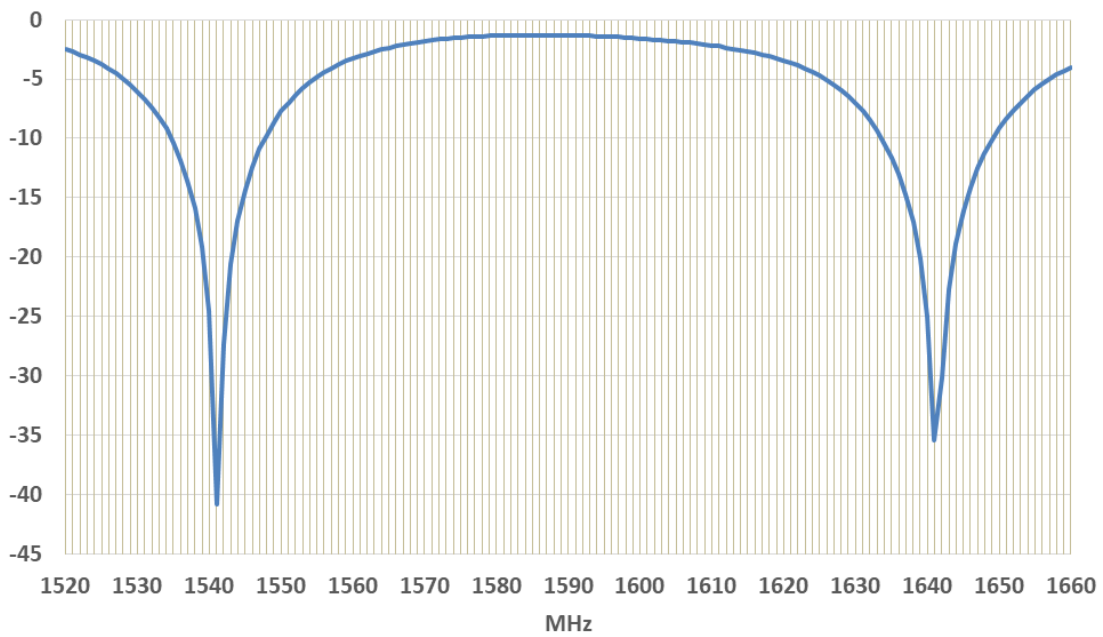
| Parameter | Description |
|--|-------------|
| Dimensions | 25*25*4 mm |
| Operating Temperature | -40°C~85°C |
| Storage Temperature (With Packing Sealed) | -5°C~40°C |

2. Appearance (Unit : mm)



3. Performance

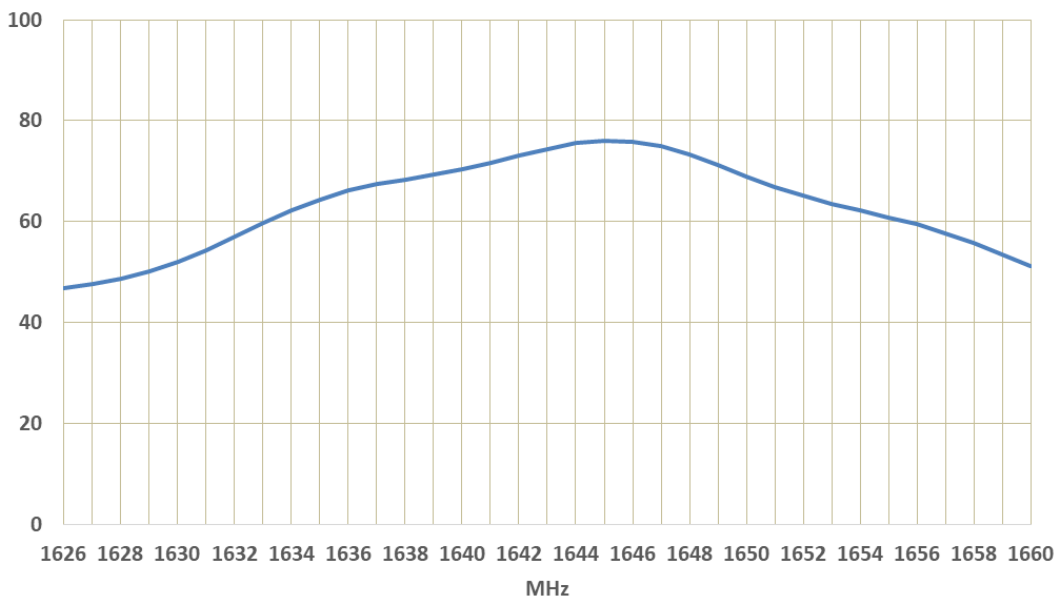
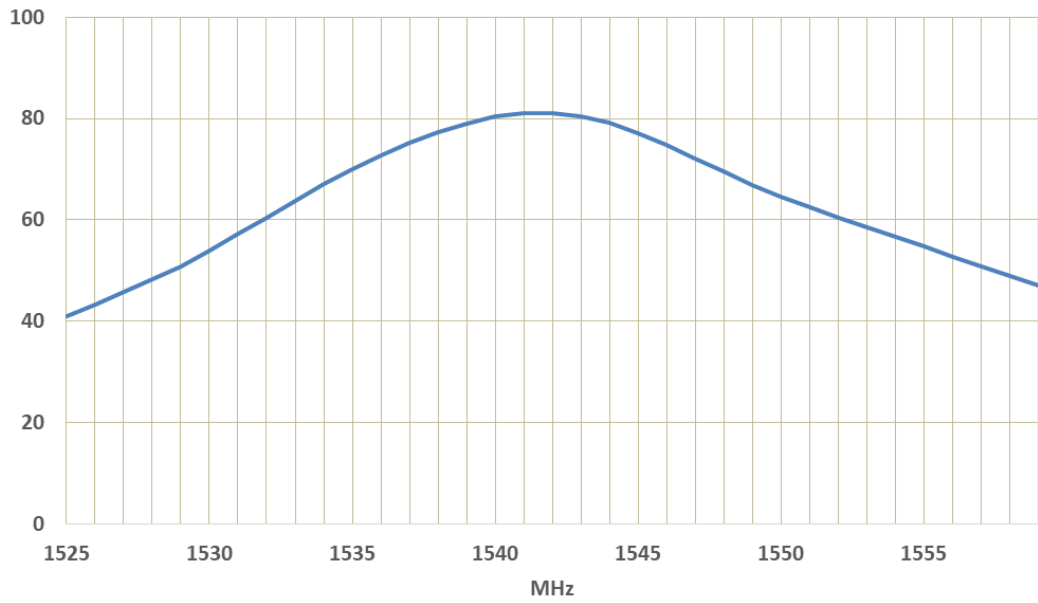
3.1 Return Loss (dB)





3.2 Efficiency (%)

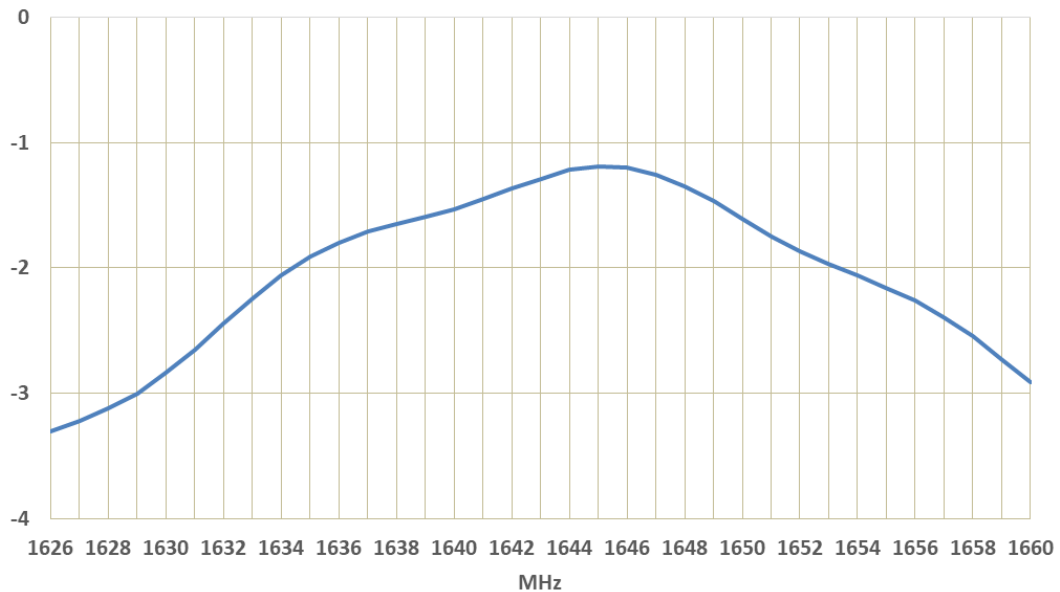
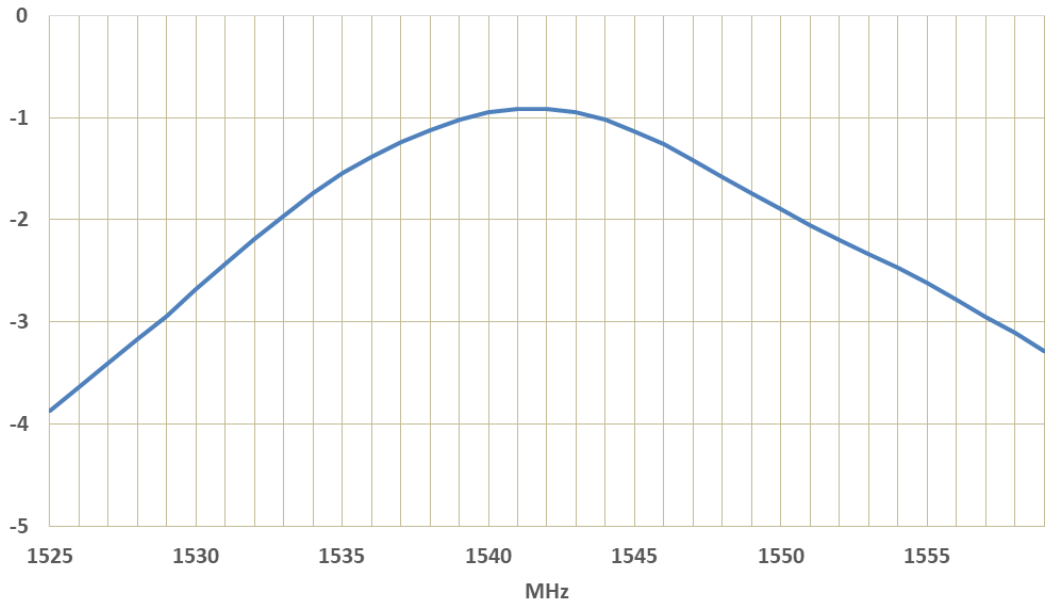
| | | |
|-------------------|----------|----------|
| Frequency | 1542 MHz | 1643 MHz |
| Efficiency | 81.1 % | 74.4 % |





3.3 Average Gain (dBi)

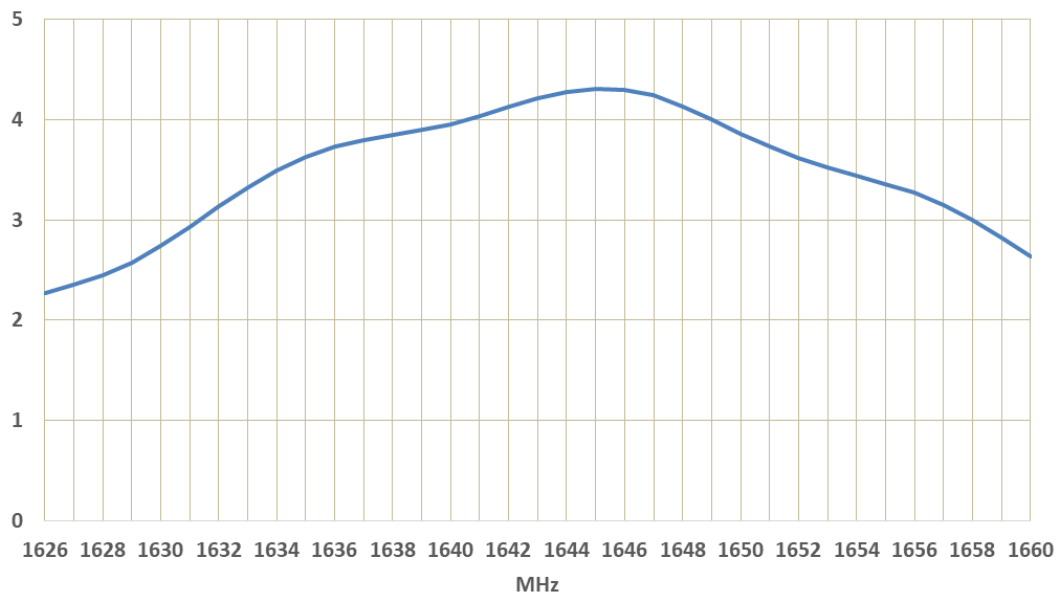
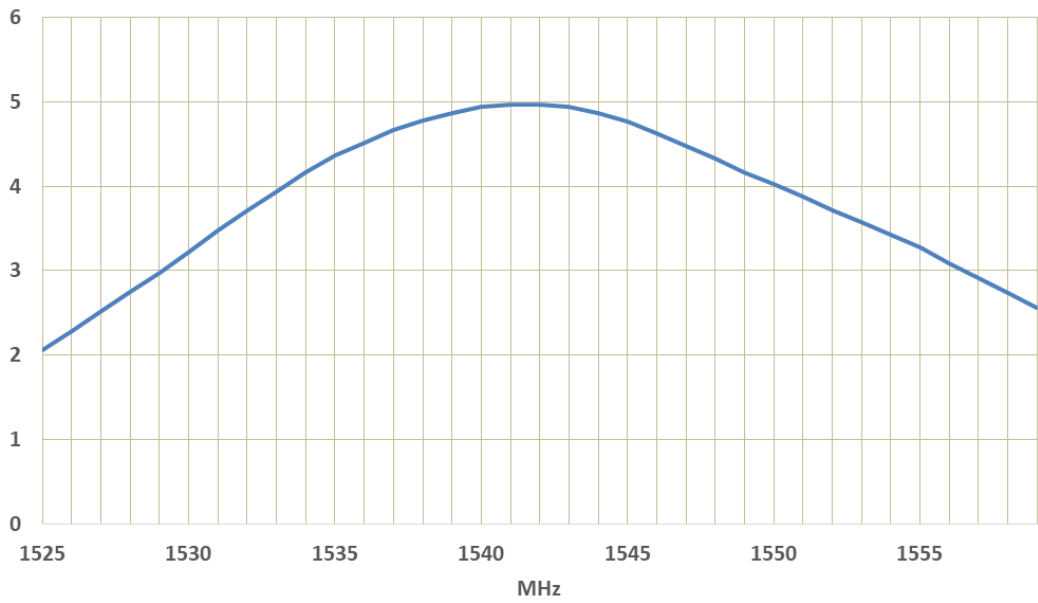
| | | |
|---------------------|----------|----------|
| Frequency | 1542 MHz | 1643 MHz |
| Average Gain | -0.9 dBi | -1.3 dBi |



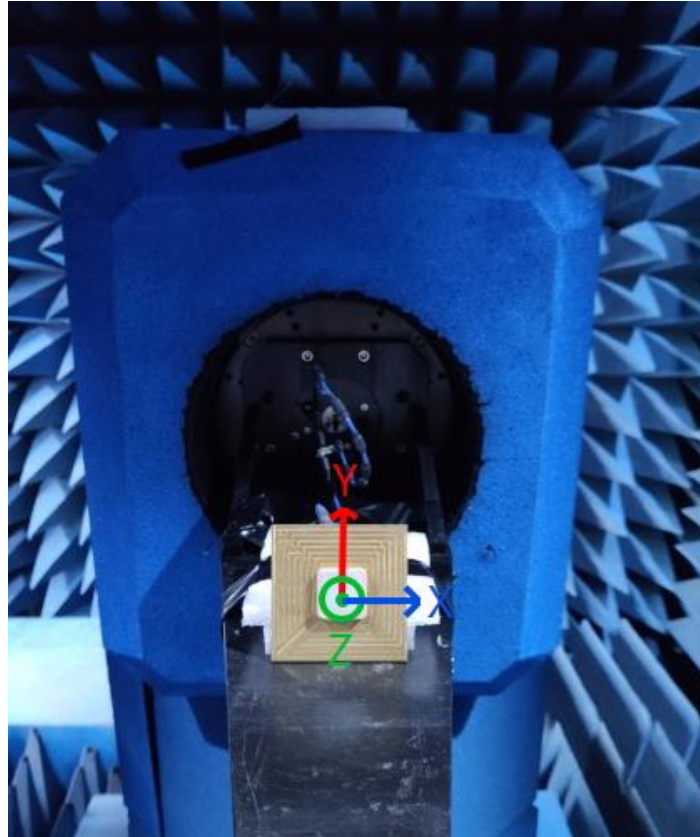


3.4 Peak Gain (dBi)

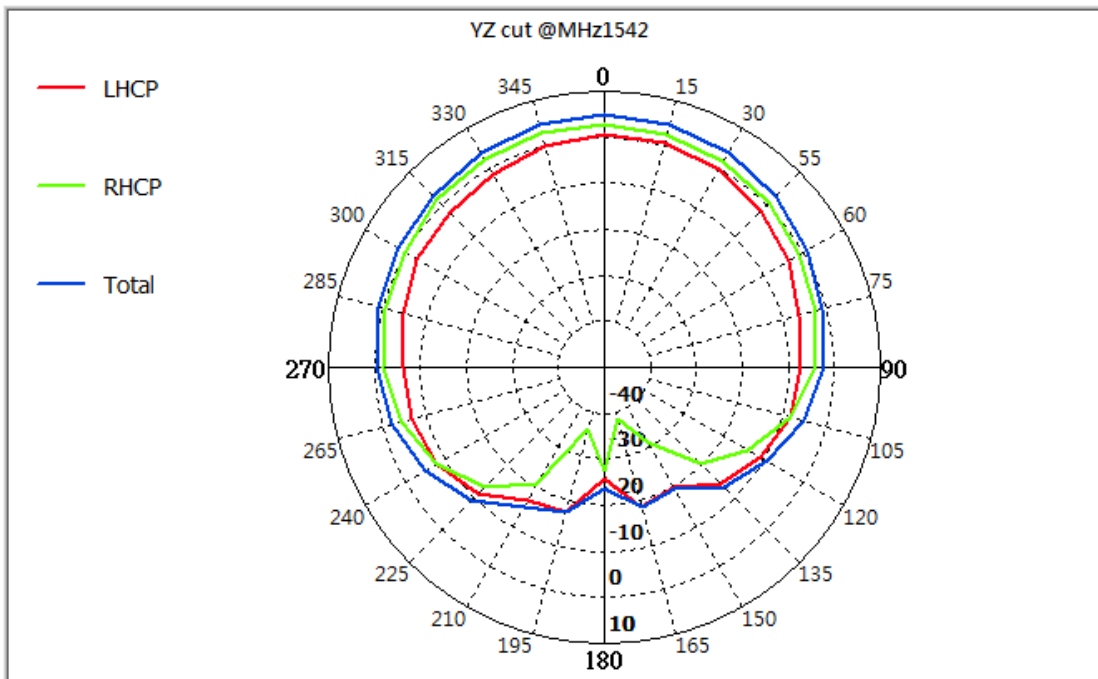
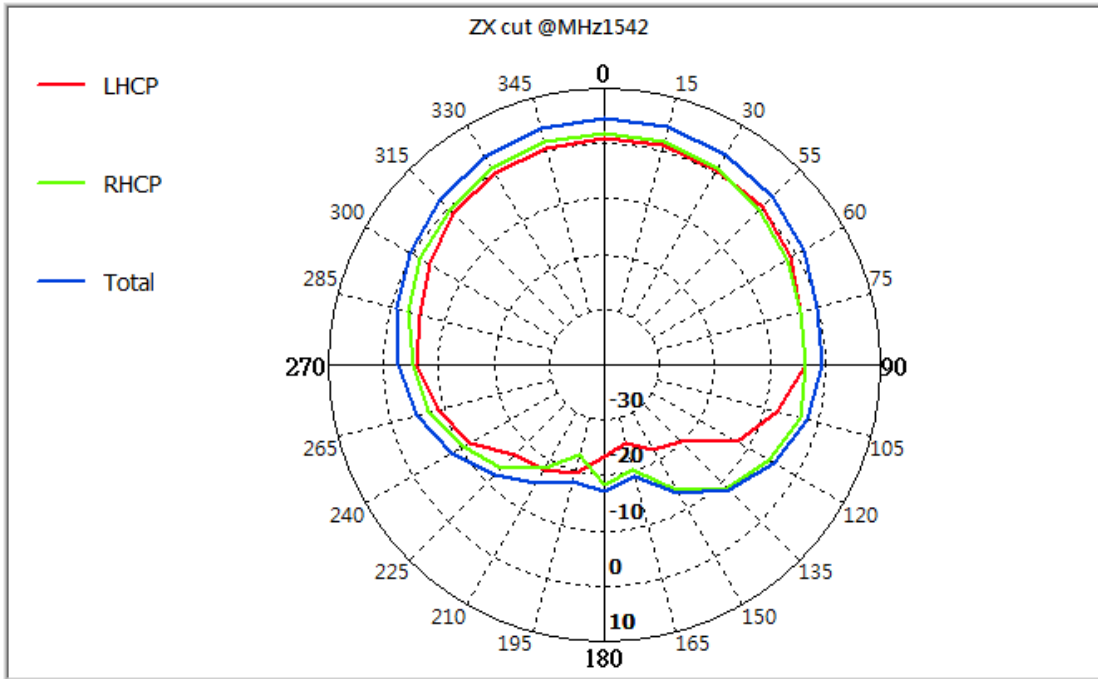
| | | |
|------------------|----------|----------|
| Frequency | 1542 MHz | 1643 MHz |
| Peak Gain | 5.0 dBi | 4.2 dBi |



3.5 2D Radiation Pattern



1542MHz (Unit : dBi)



1643MHz (Unit : dBi)

