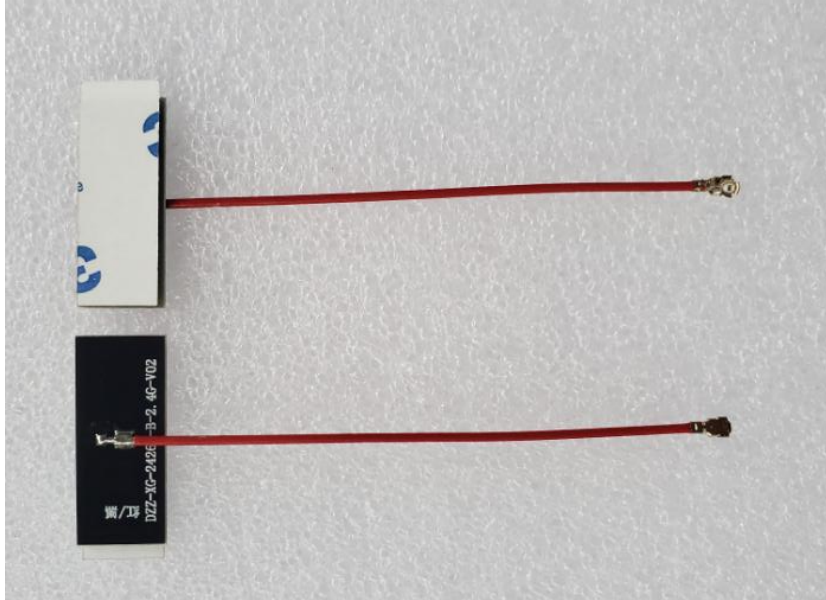
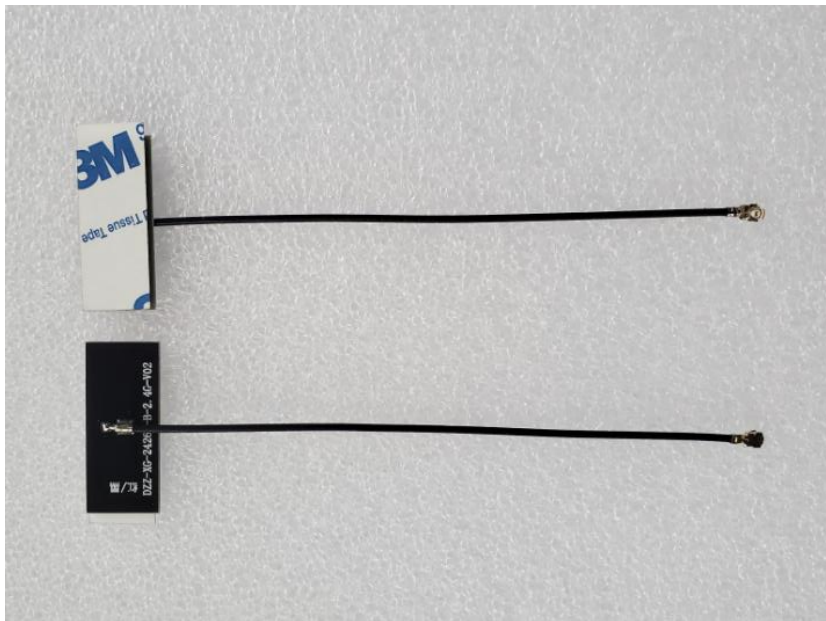


1. Antenna System Description

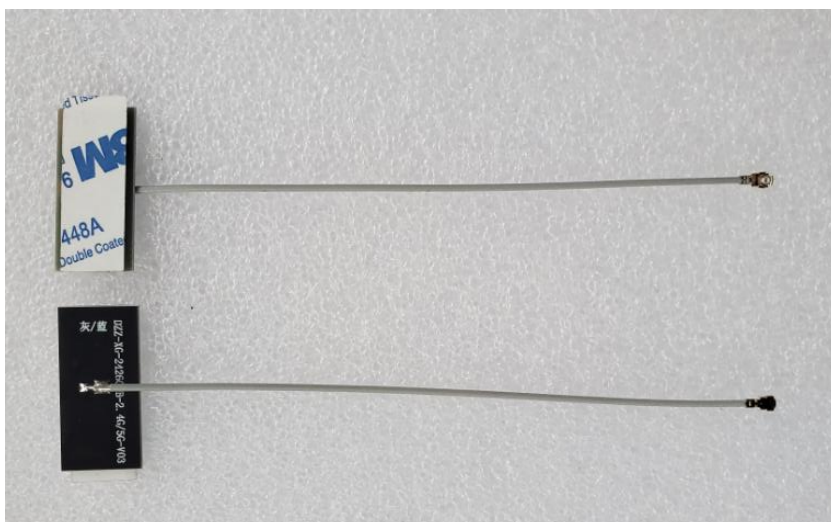
Ant1



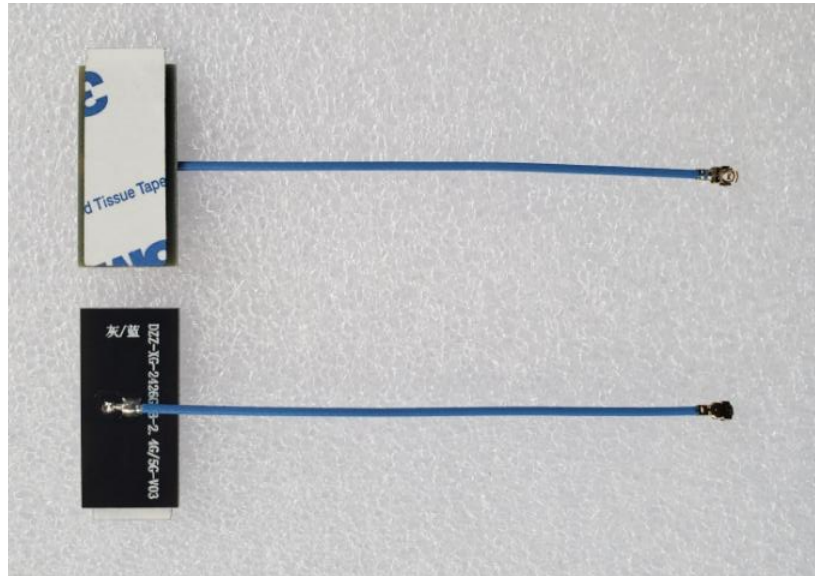
Ant2



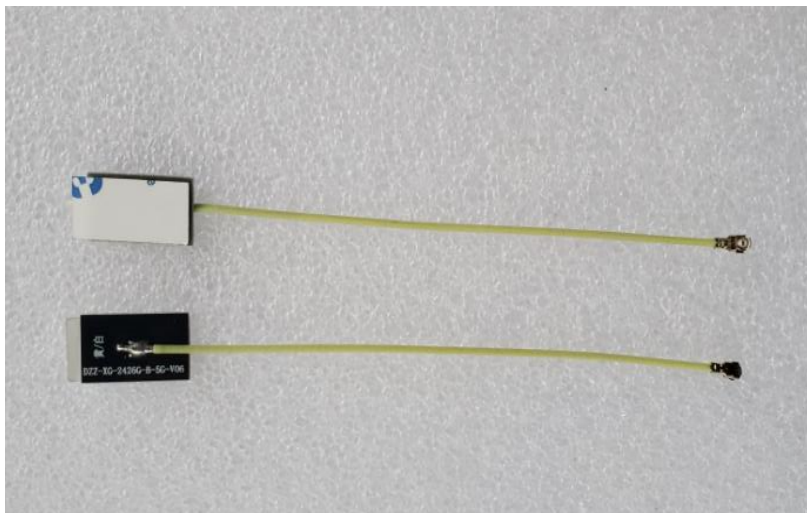
Ant3



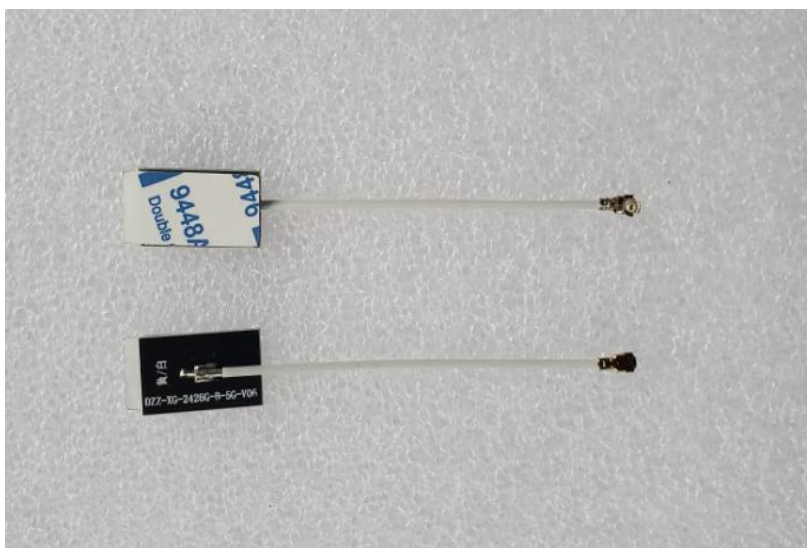
Ant4



Ant5

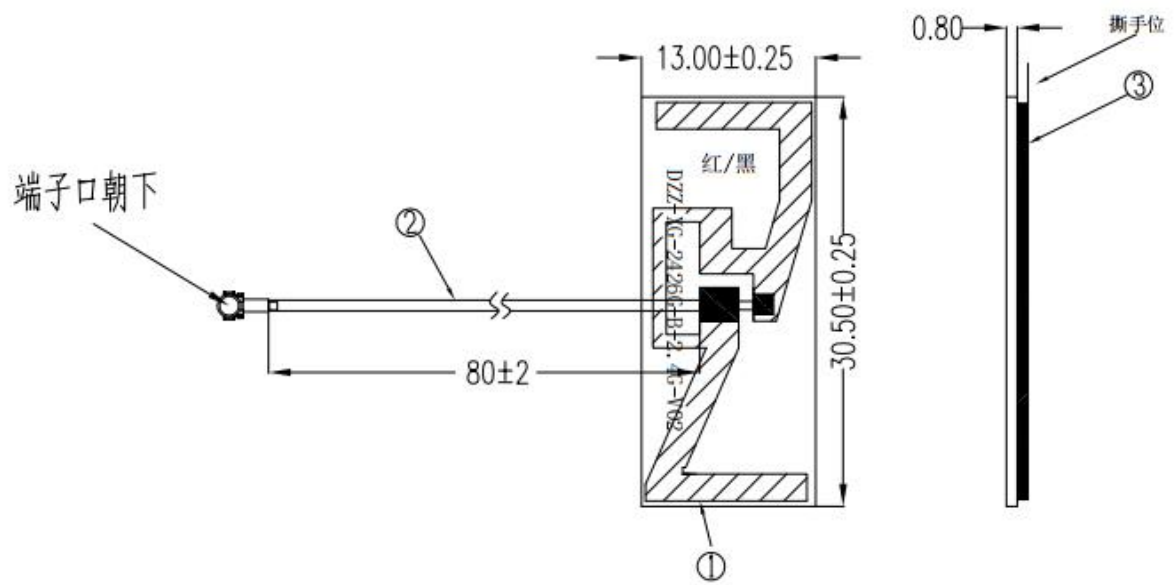


Ant6

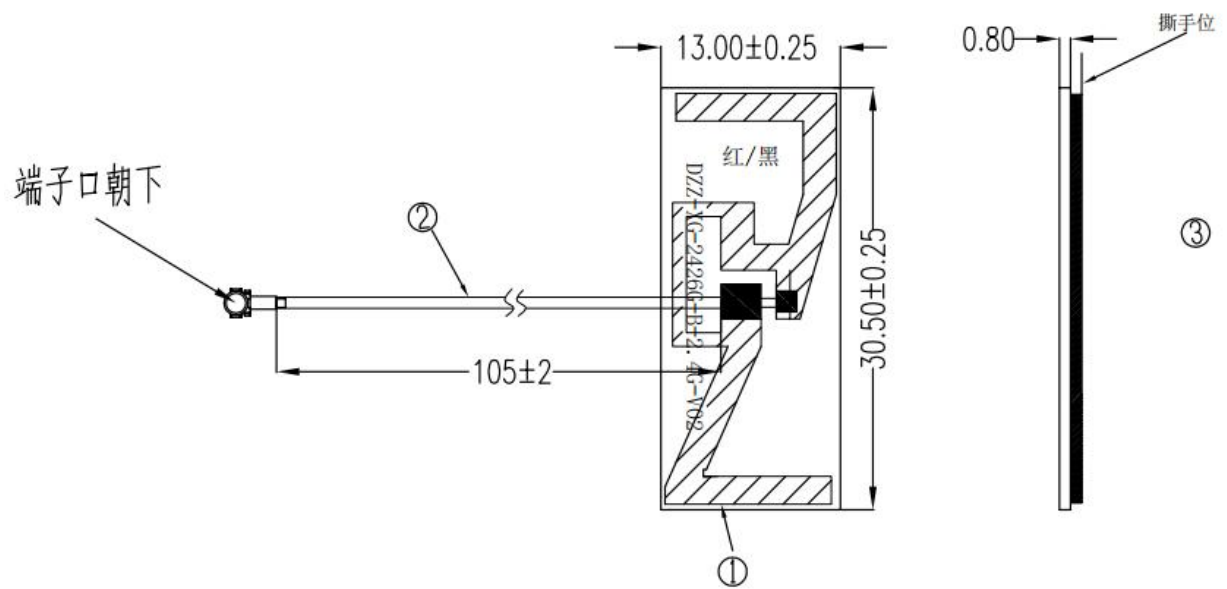


The system contains six internal antennae (as shown: antennae 1/2/3/4/5/6). Each antenna has a radiation element in the form of a PIFA. Each antenna contains a feeder. Red and black cable 2.4 GHz, gray and blue cable 2.4&5 GHz, yellow and white cable 5 GHz antenna gain of 3dBi. The system does not produce multiple beams.

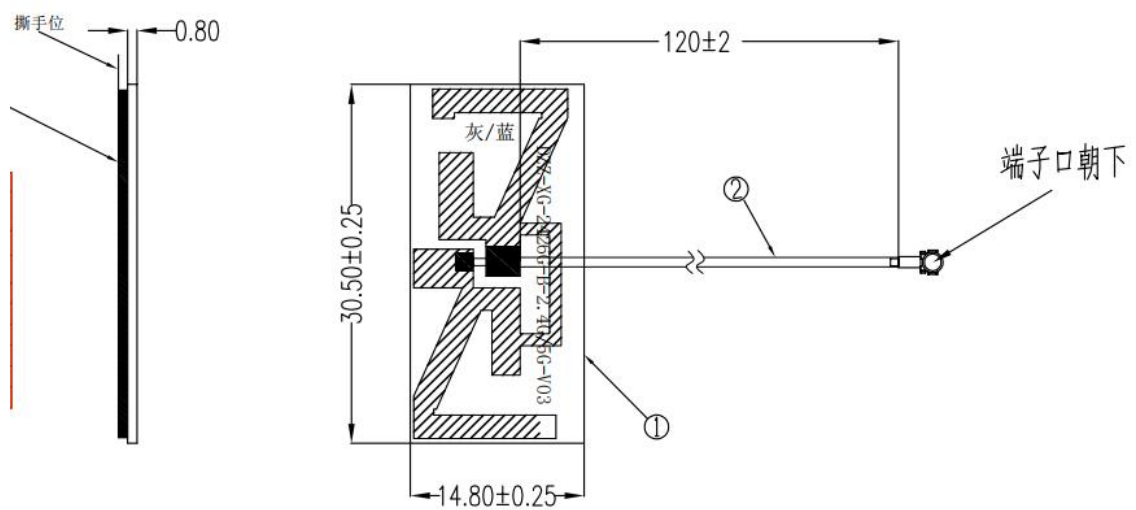
Ant1



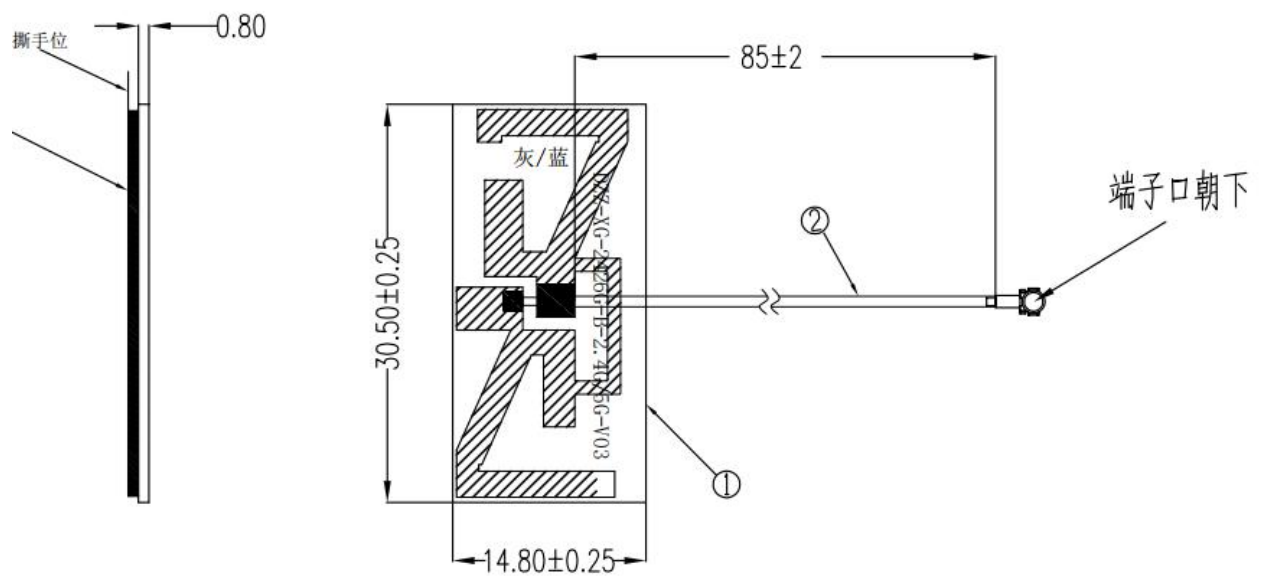
Ant2



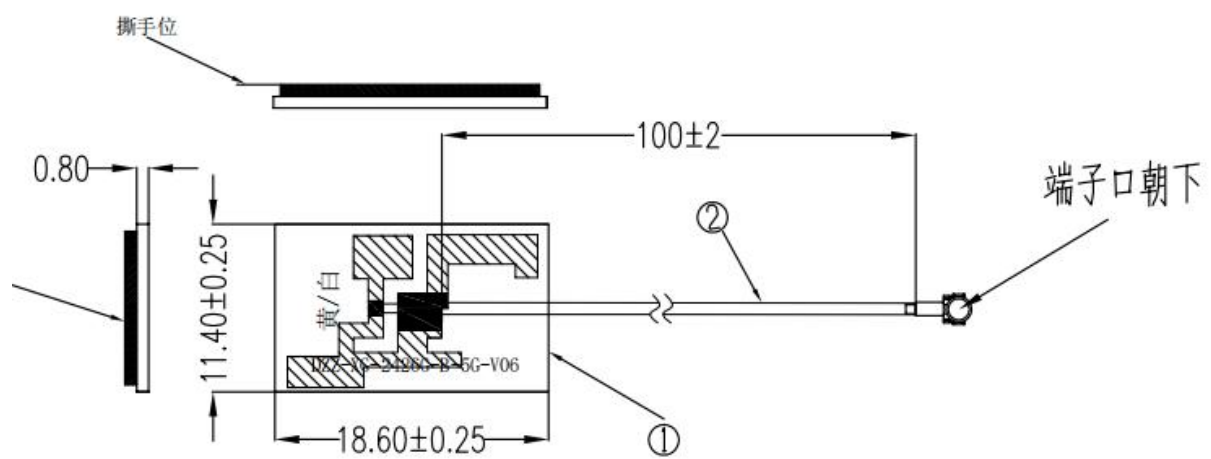
Ant3



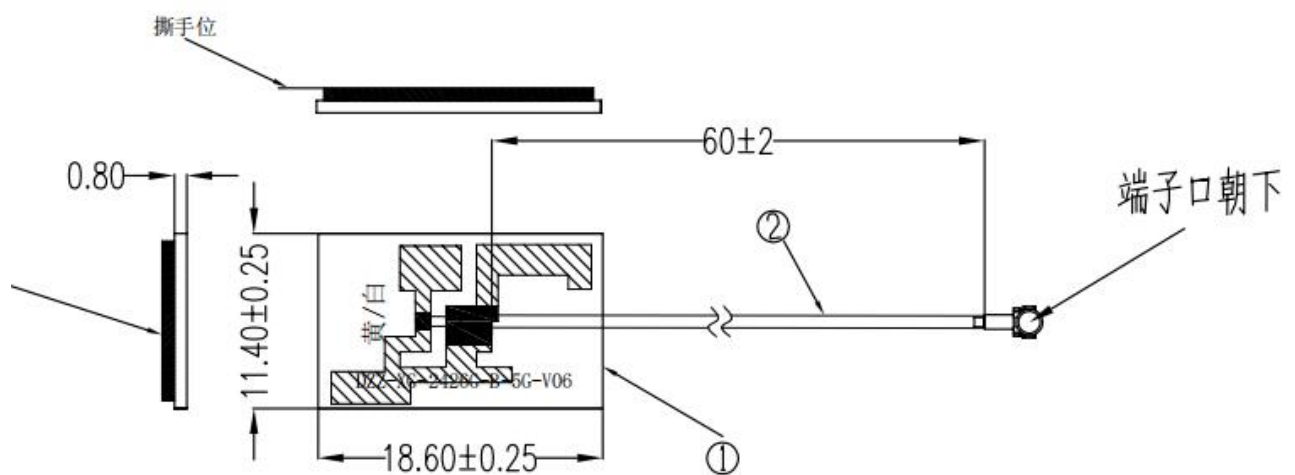
Ant4



Ant5



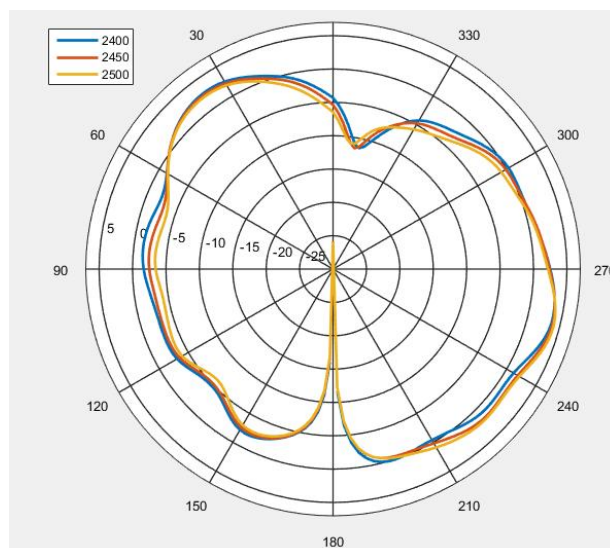
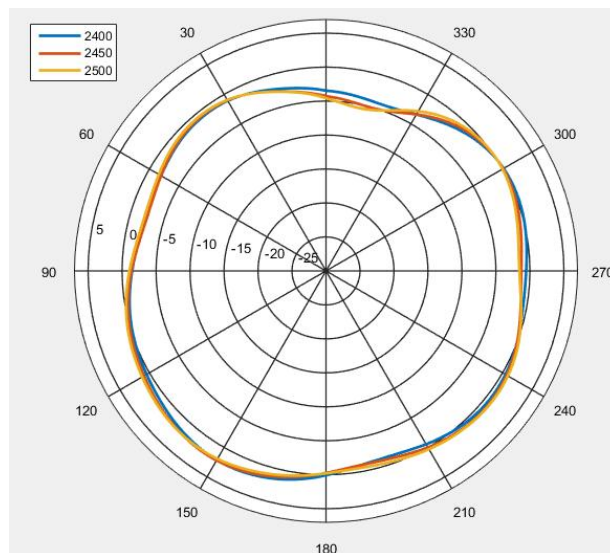
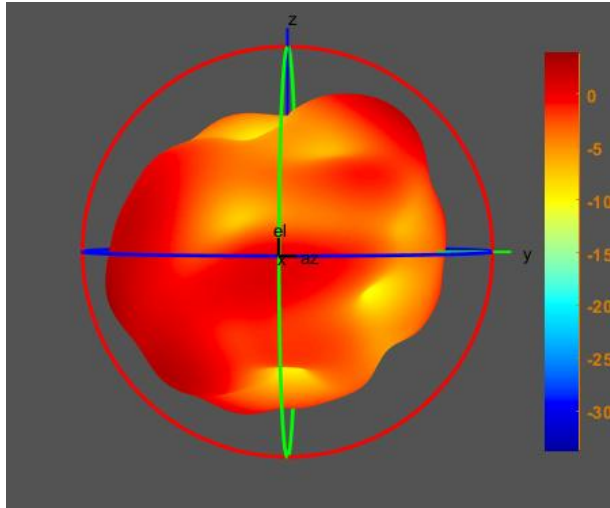
Ant6



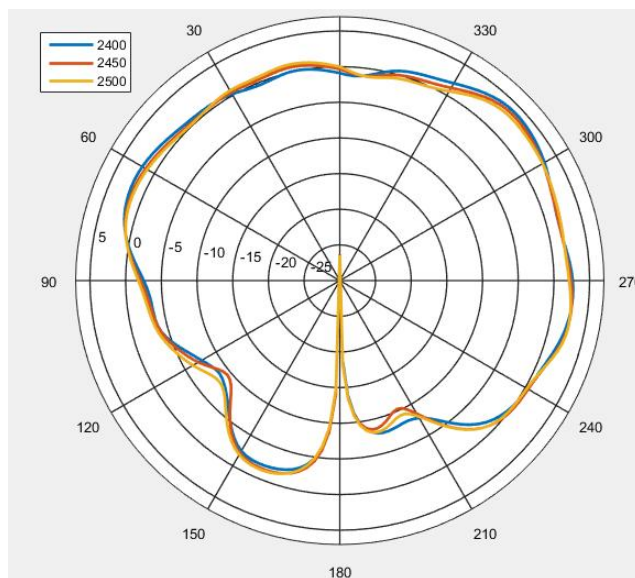
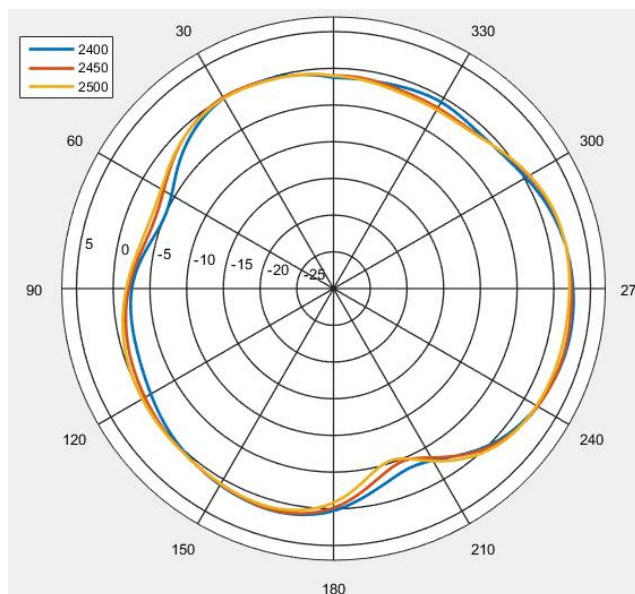
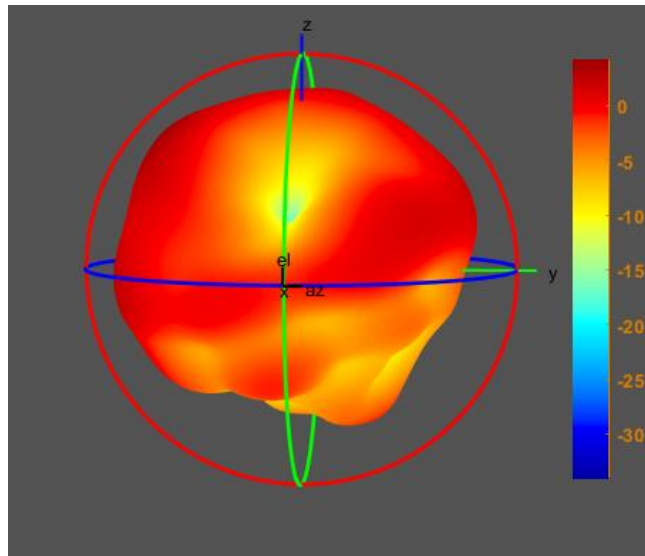
2. Measurement

The pattern of the antenna is omnidirectional radiation in the horizontal plane. The antenna has a gain of 3dBi. The radiation mode of the antenna is as follows:

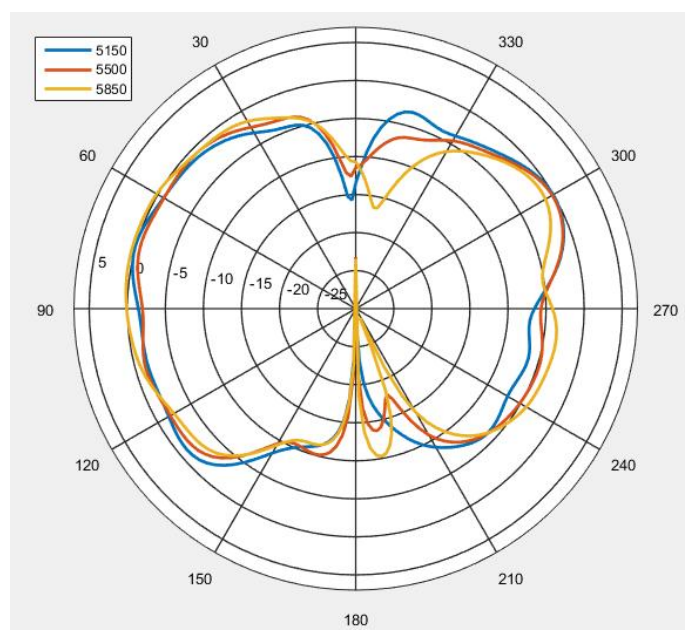
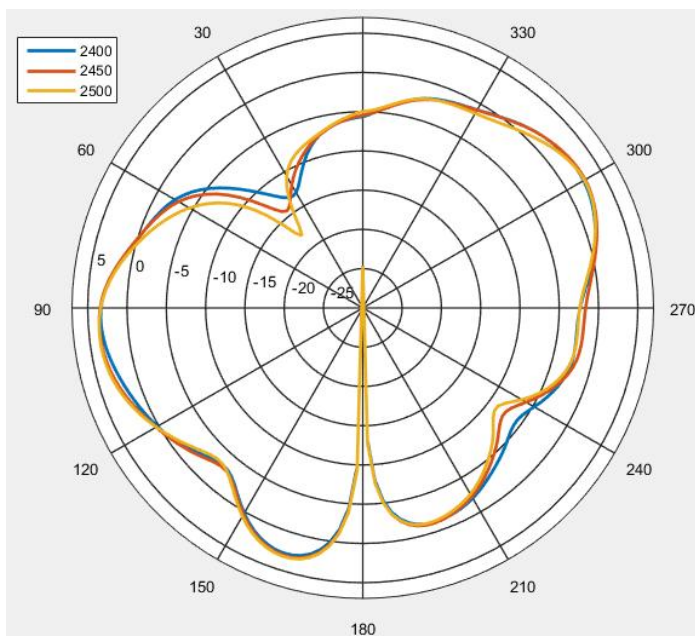
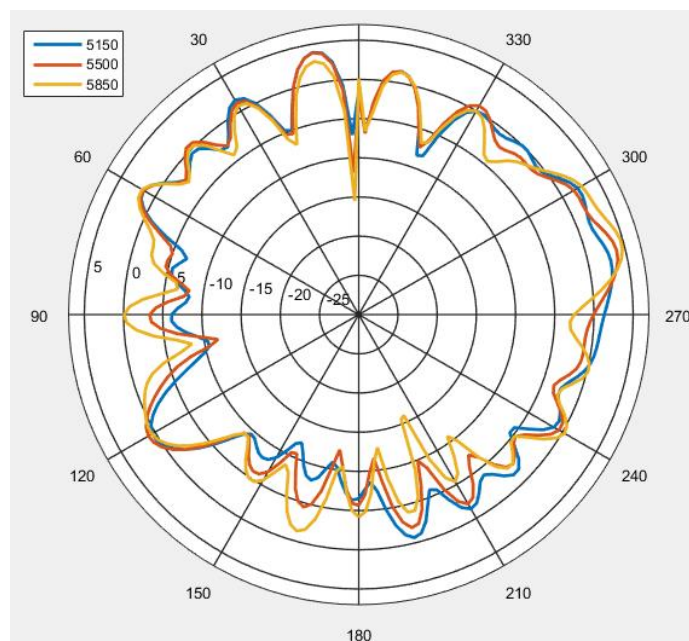
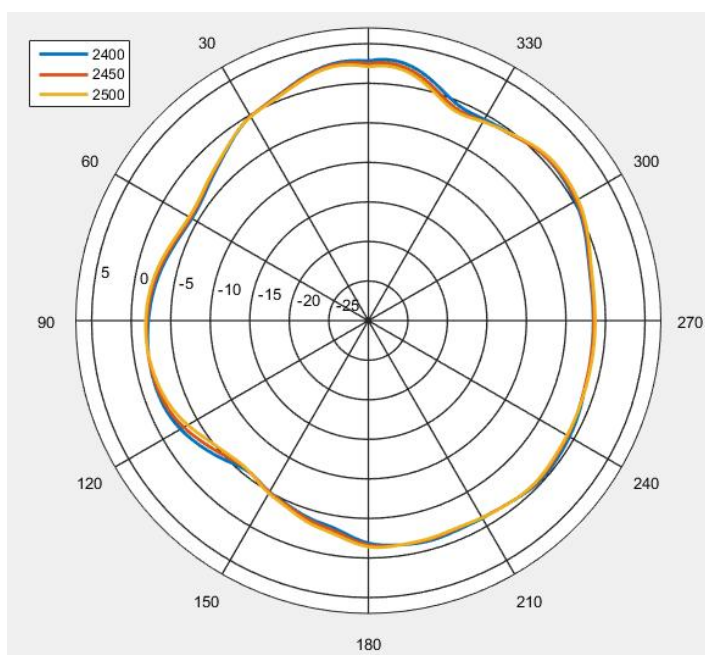
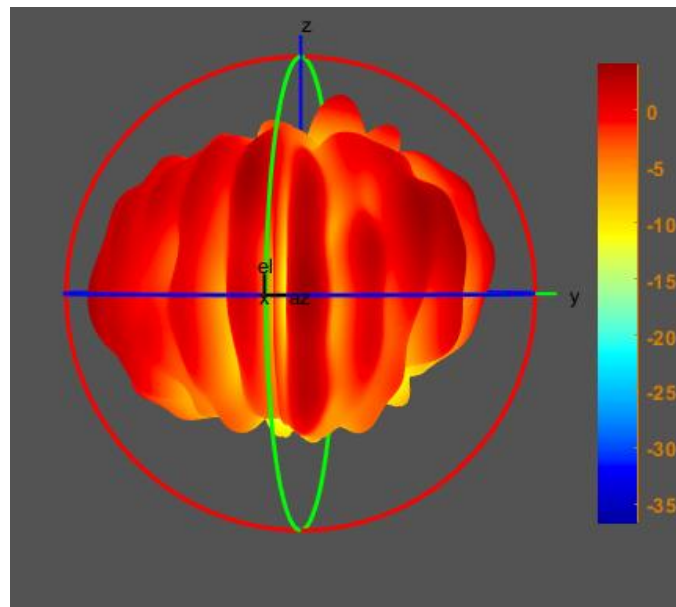
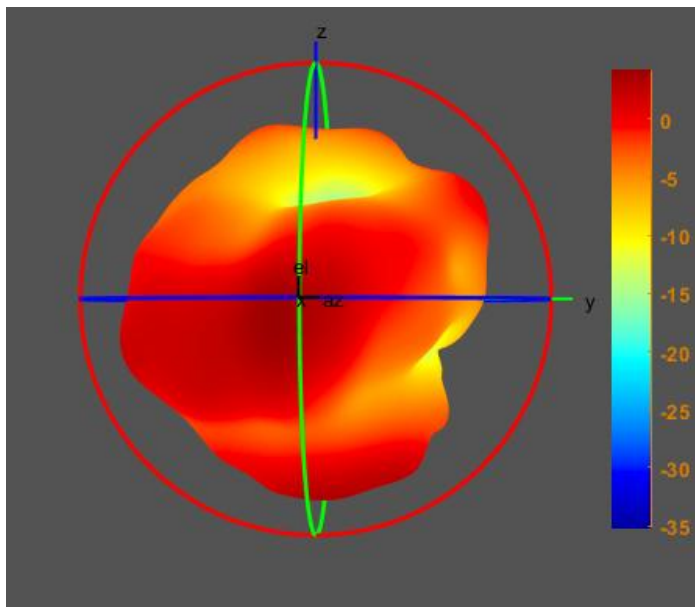
Antenna 1: 2450MHz



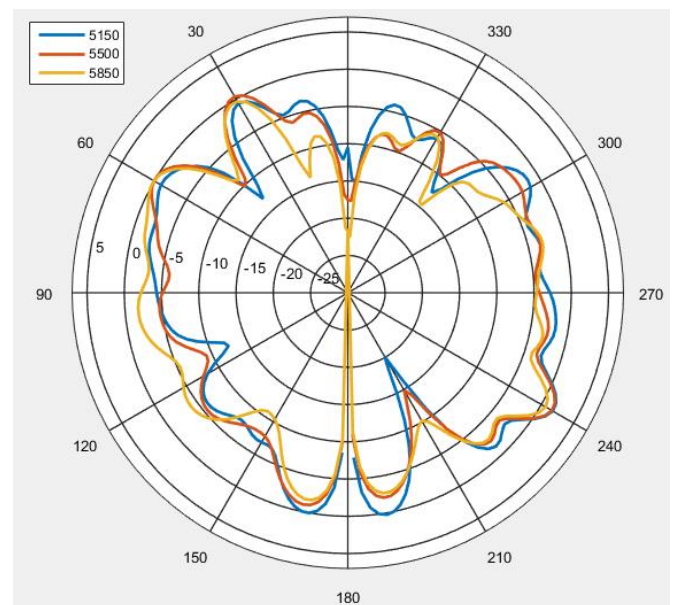
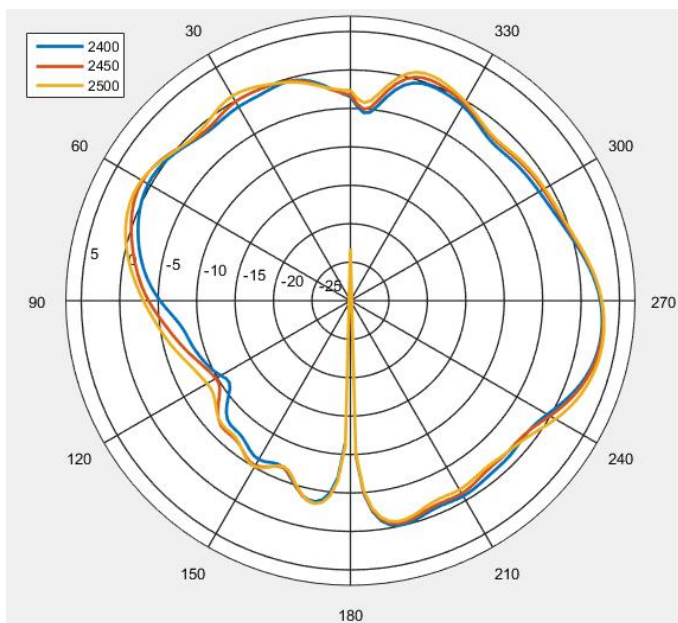
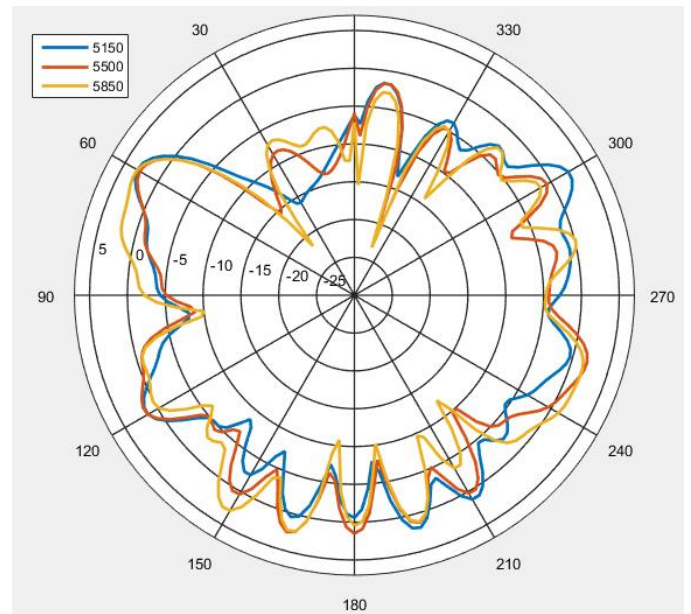
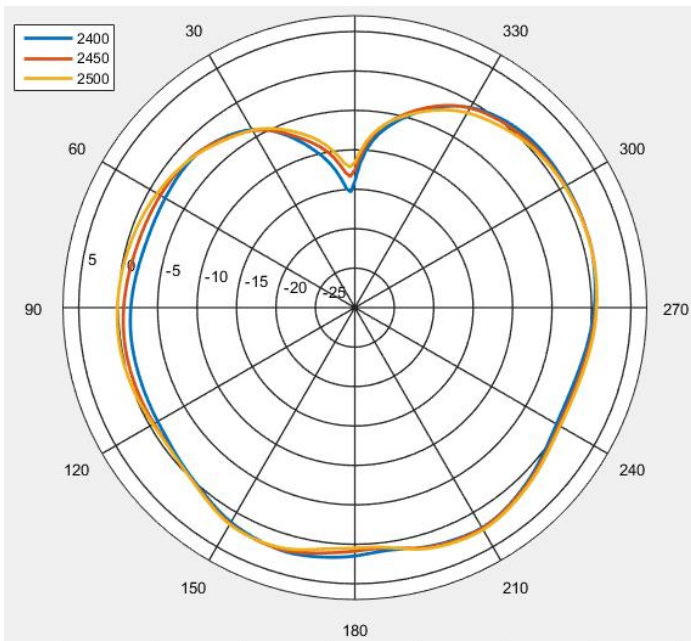
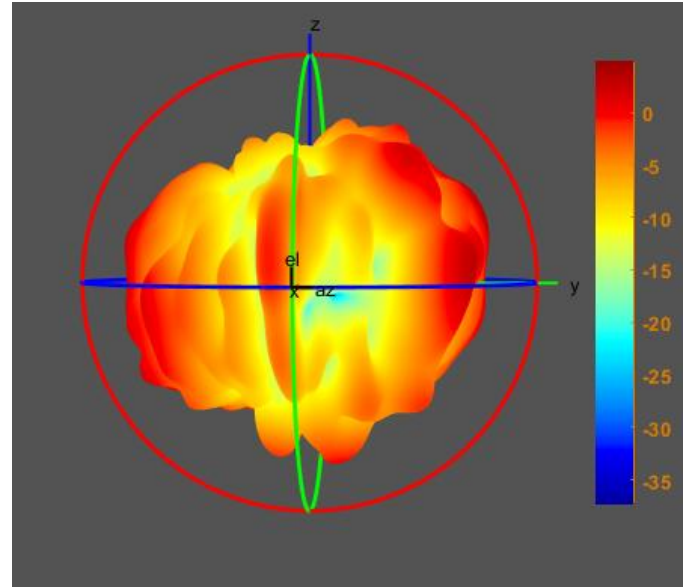
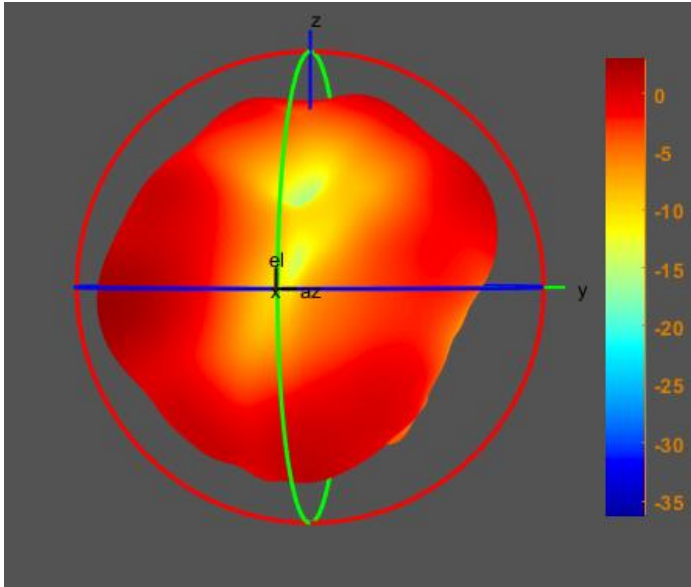
Antenna 2: 2450MHz



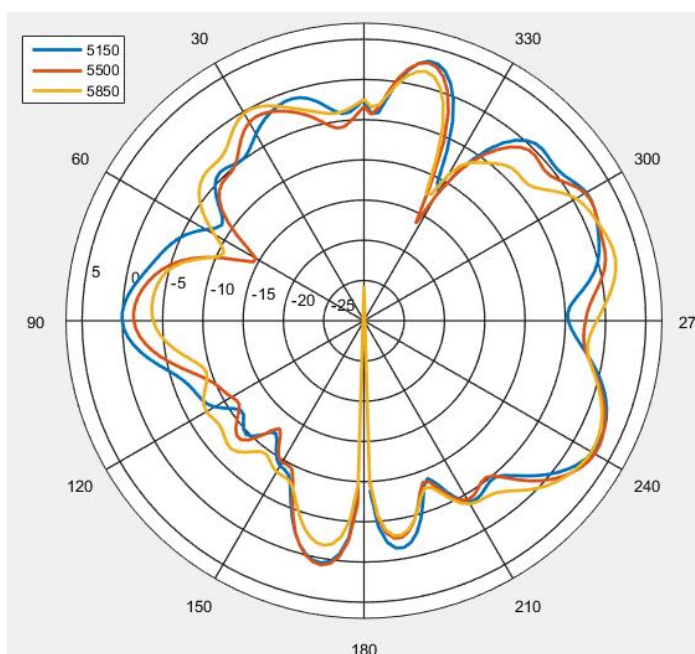
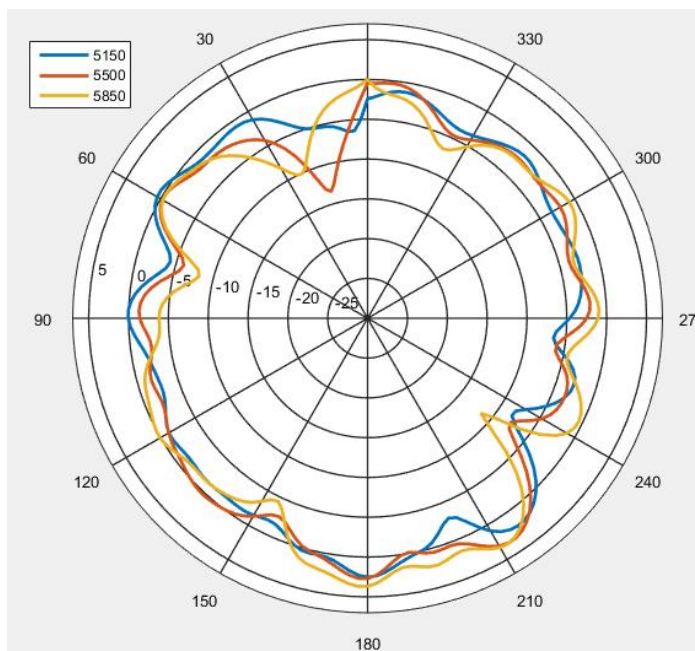
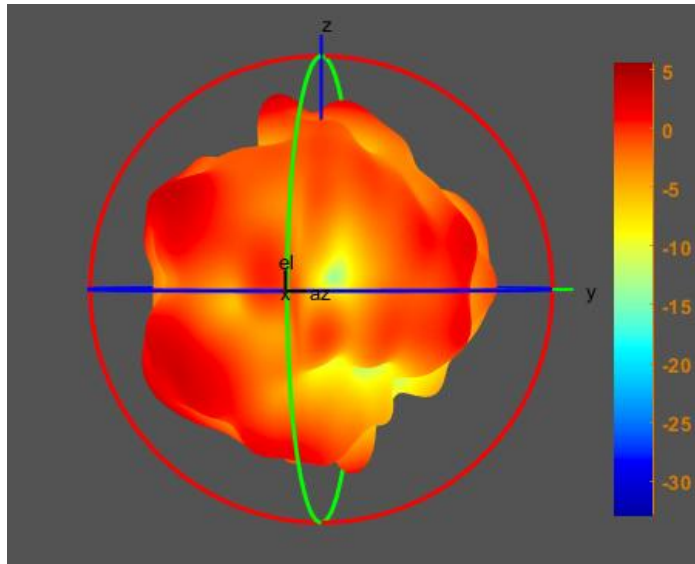
Antenna 3: 2450&5500MHz



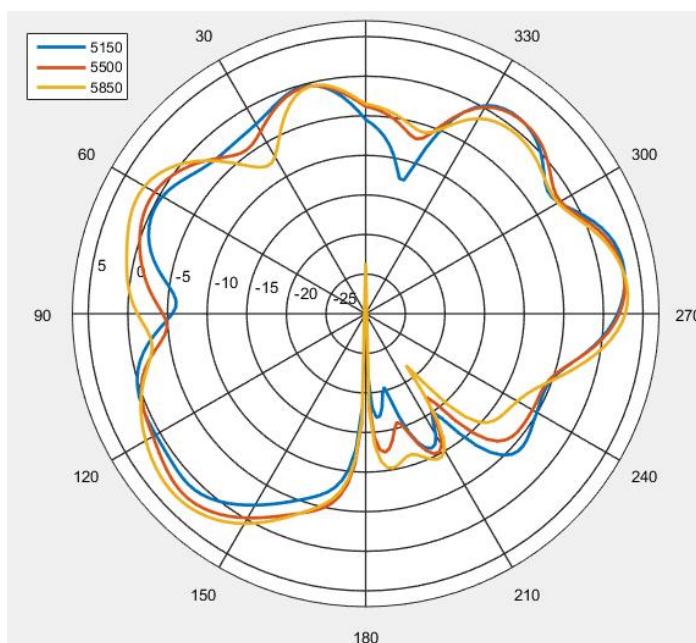
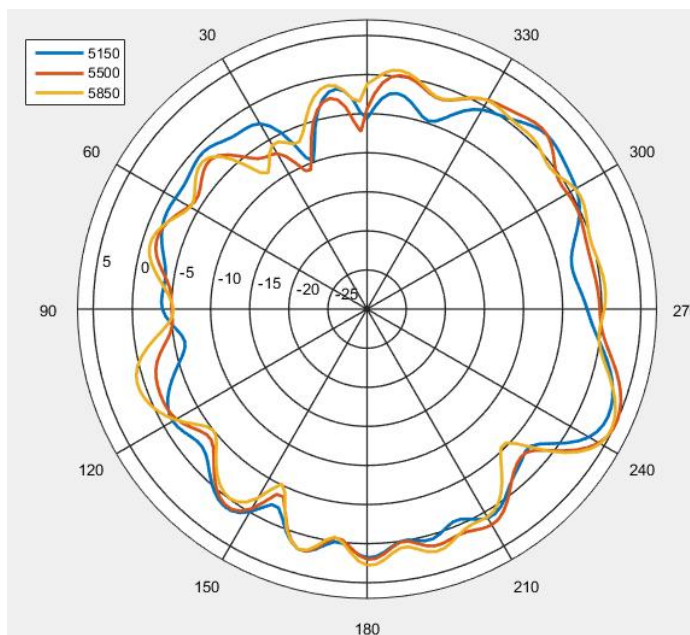
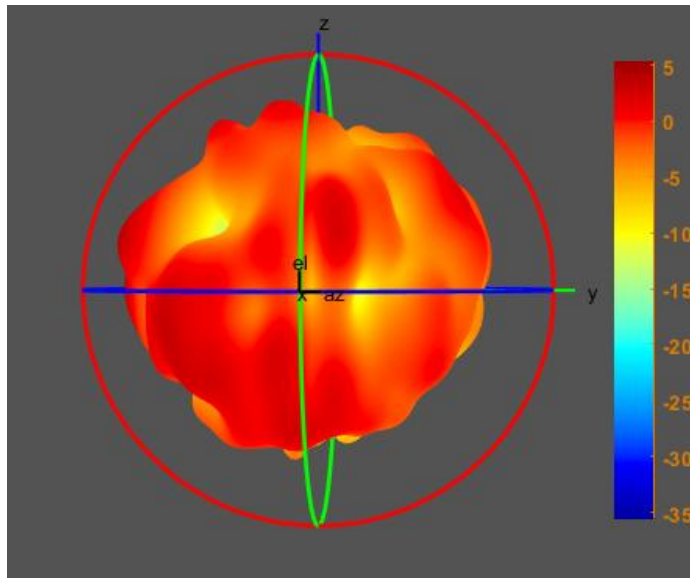
Antenna 4: 2450&5500MHz



Antenna 5: 5500MHz



Antenna 6: 5500MHz

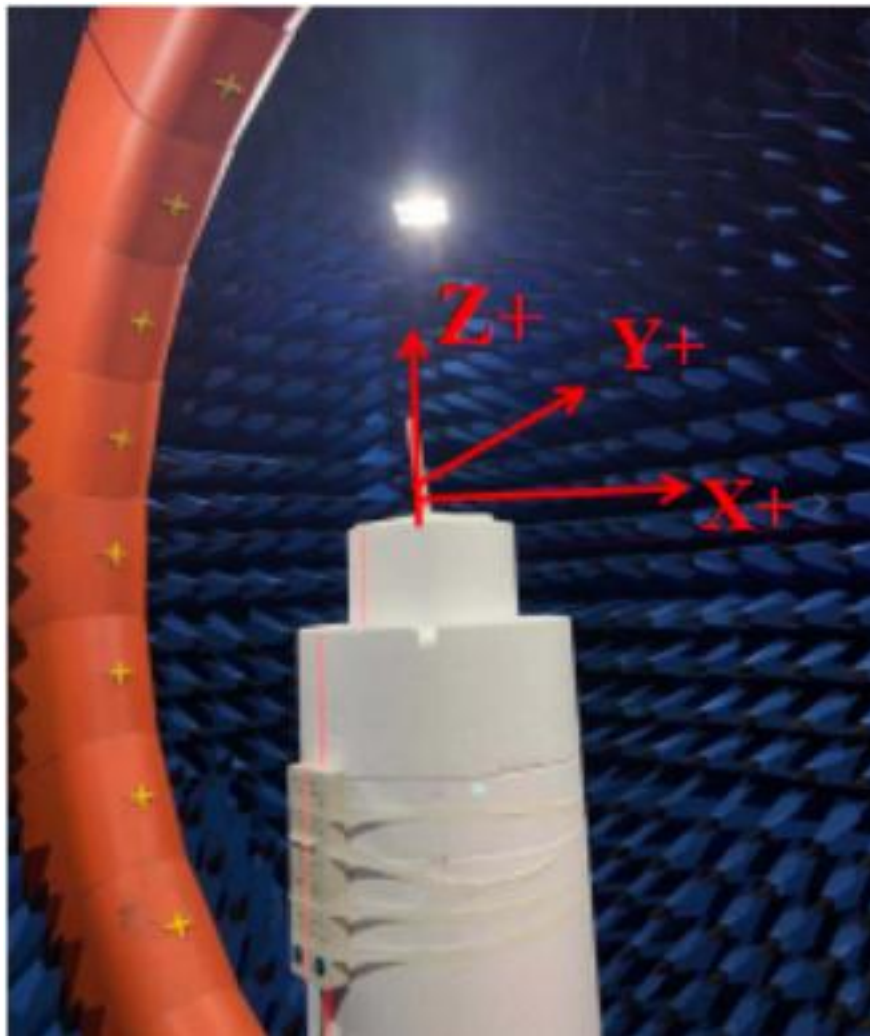


3. Measurement Method

The antenna gain measurement method is gain comparison method.

4. Measurement Environment

The gain of the antenna was measured in the anechoic chamber. The chamber provides less than -30 dB reflectivity from 400 MHz through 8 GHz. The chamber size is: $4\text{m} \times 4\text{m} \times 4\text{m}$. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



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