

LYNwave Technology

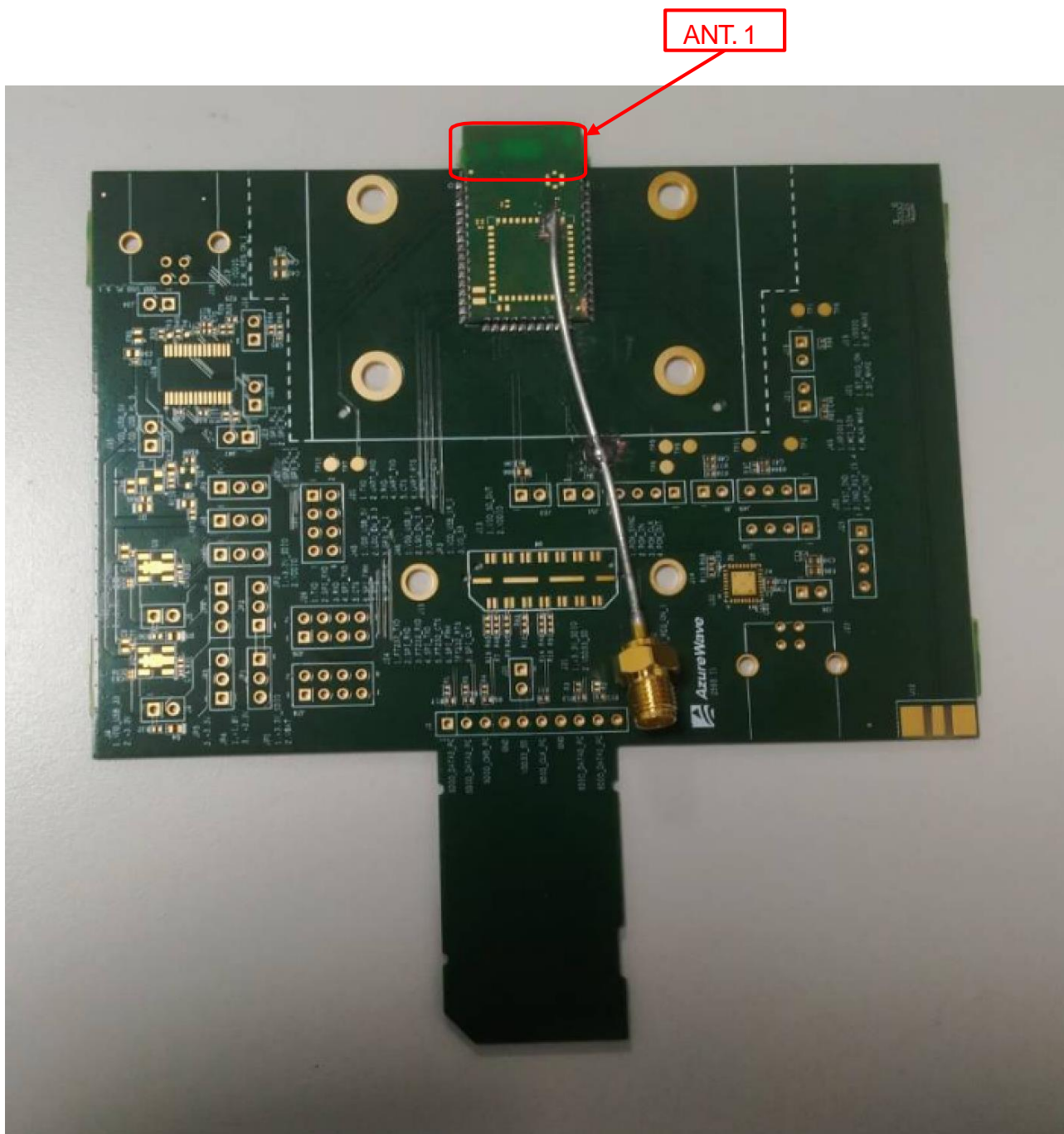
Antenna & Thermal solution provider

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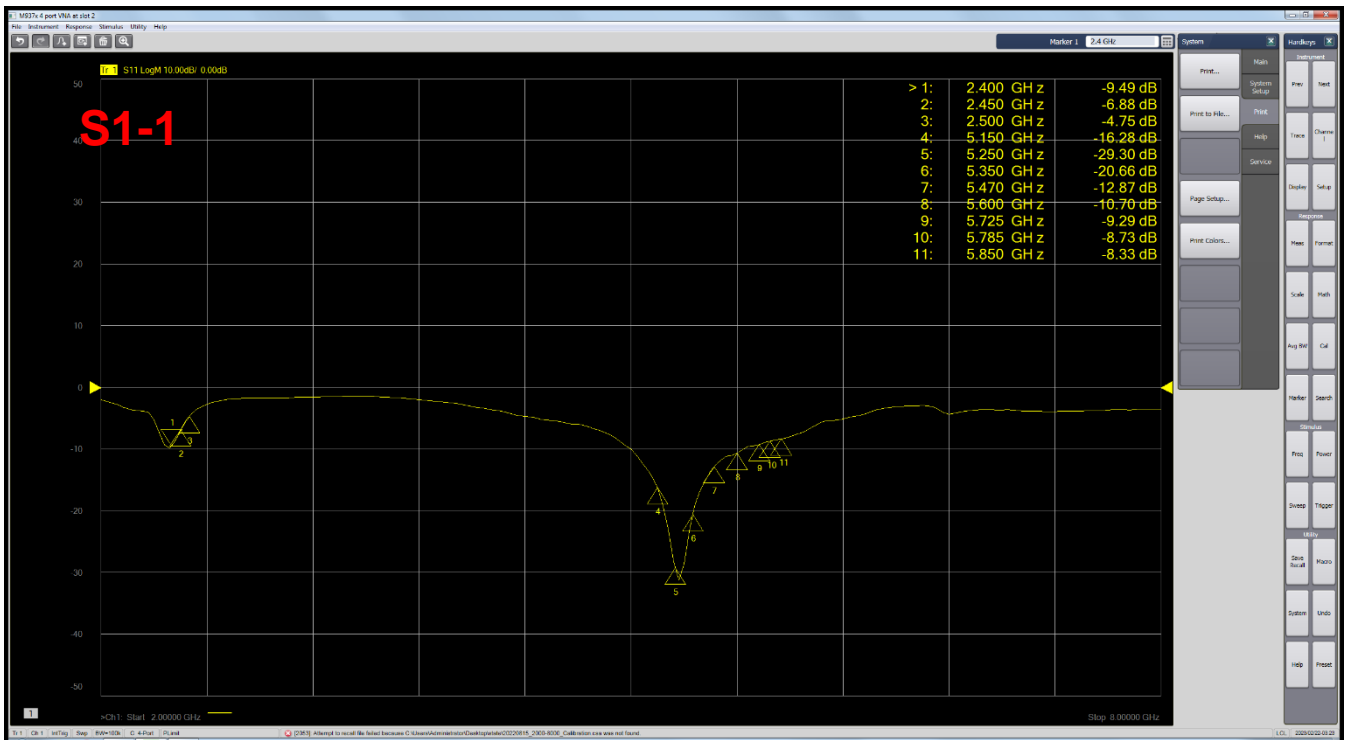
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Antenna Placement

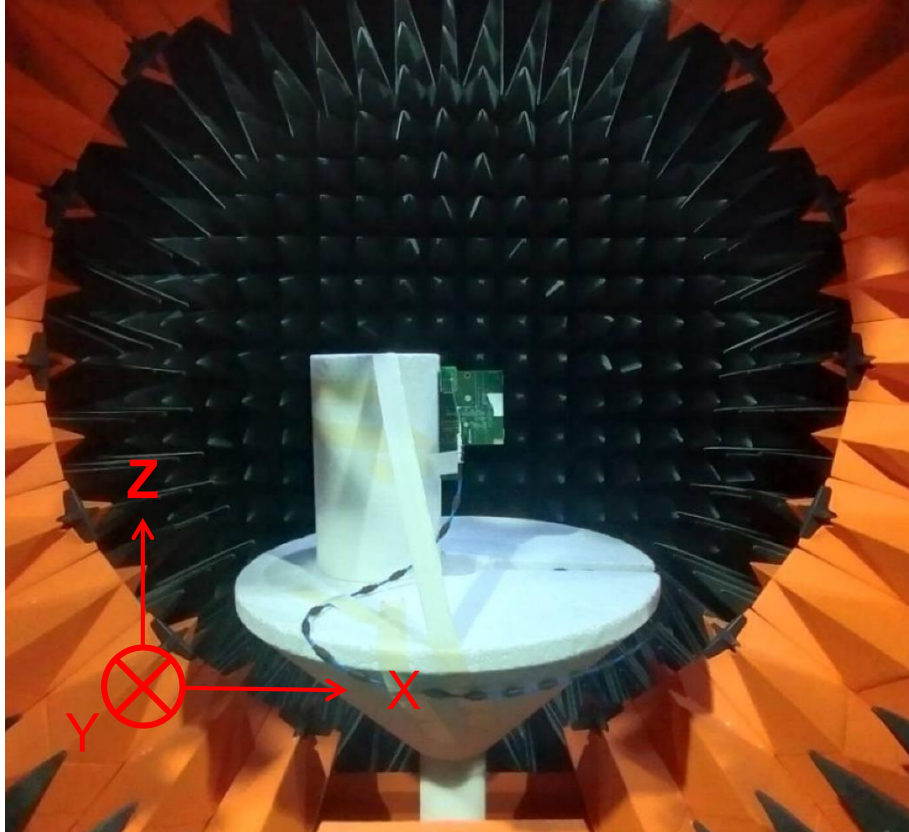
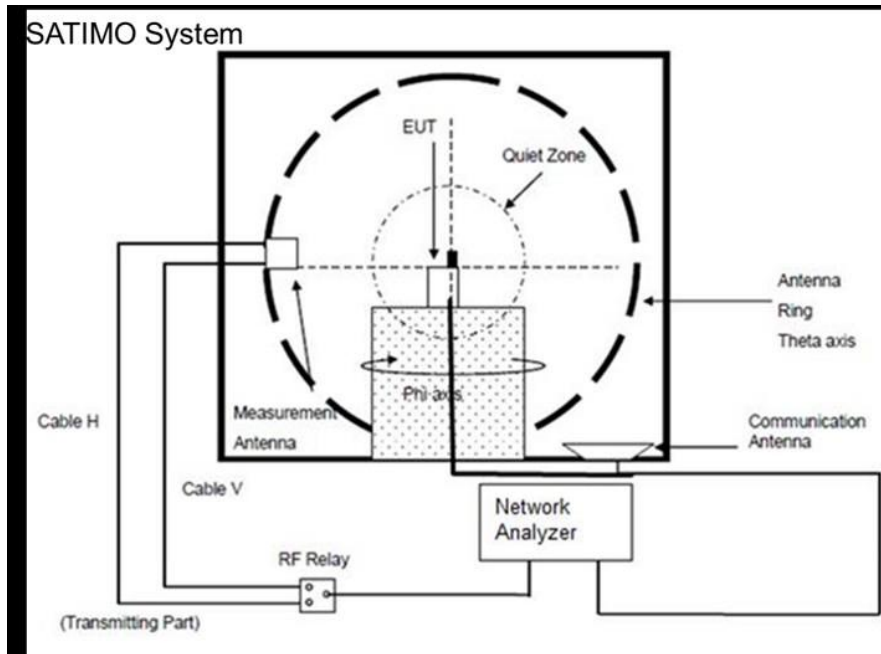
Antenna	Description	Frequency	Type
Ant.1	Dual Band	2400 ~ 2500 MHz / 5150MHz ~ 5850MHz	PIFA



S-Parameters



Equipment : Satimo Chamber



Gain Table

Ant.1											
Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5850
Efficiency(%)	54	53	50	68	69	68	65	63	63	62	60
Peak Gain(dBi)	1.0	1.3	0.6	3.9	4.3	4.3	3.6	3.2	3.1	3.1	3.0

The antenna characteristics

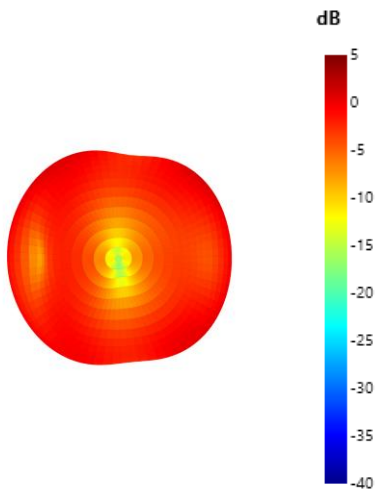
- Return loss
 - 2.4GHz is not in operating band
 - 5GHz < -8dB in operating band
- Gain
 - WiFi 2.4GHz Band 0.6 ~ 1.3dBi
 - WiFi 5GHz Band 3.0 ~ 4.3dBi
- Efficiency
 - WiFi 2.4GHz Band > 50 %
 - WiFi 5GHz Band > 60 %
- The antenna gain values are used in EMC measurement, the EIRP and/or Conducted power are compliance all FCC requirements and not exceed the limit.

Ant.1_2.4GHz 3D. Radiation Pattern

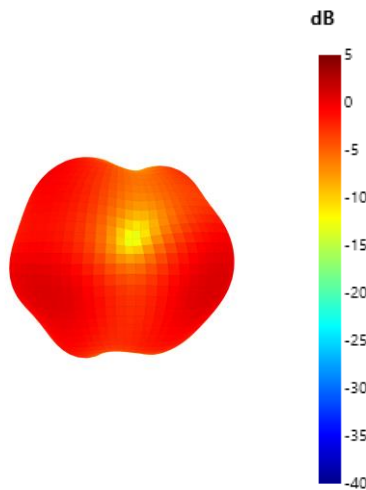
Frequency(MHz) : 3D. 2400

Radiation Pattern :

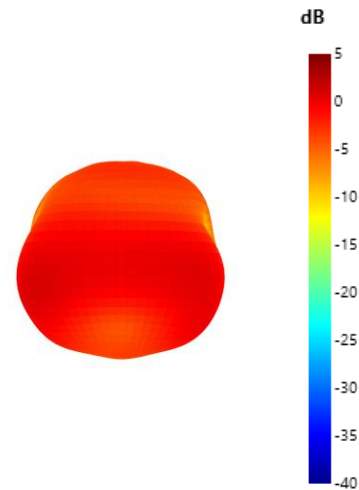
Azimuth Plane



Elevation Plane
phi = 0

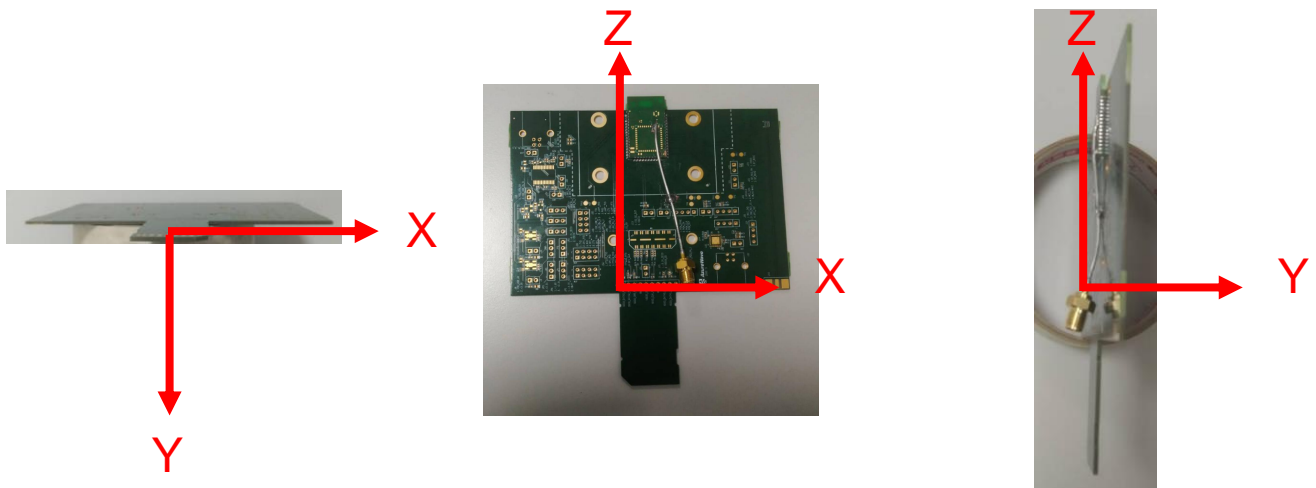


Elevation Plane
phi = 90



Peak Gain: 1.0dBi

Setup :

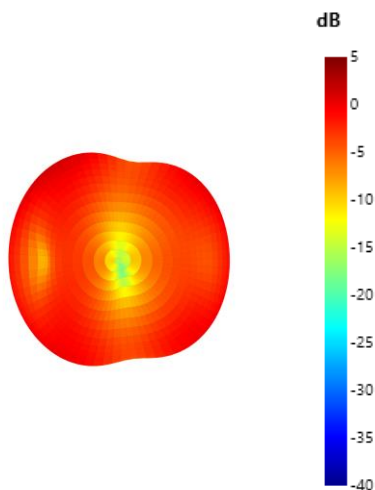


Ant.1_2.4GHz 3D. Radiation Pattern

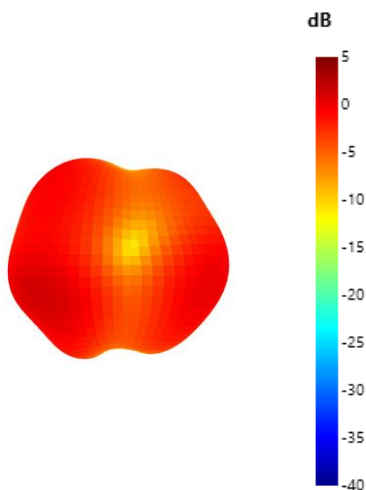
Frequency(MHz) : 3D. 2450

Radiation Pattern :

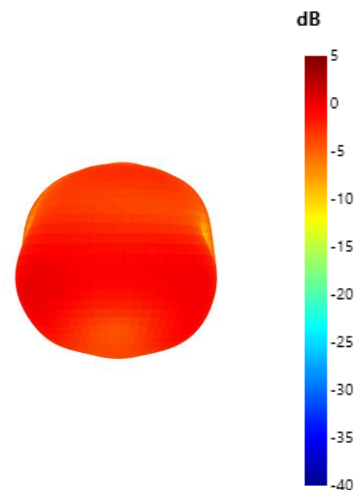
Azimuth Plane



Elevation Plane
phi = 0

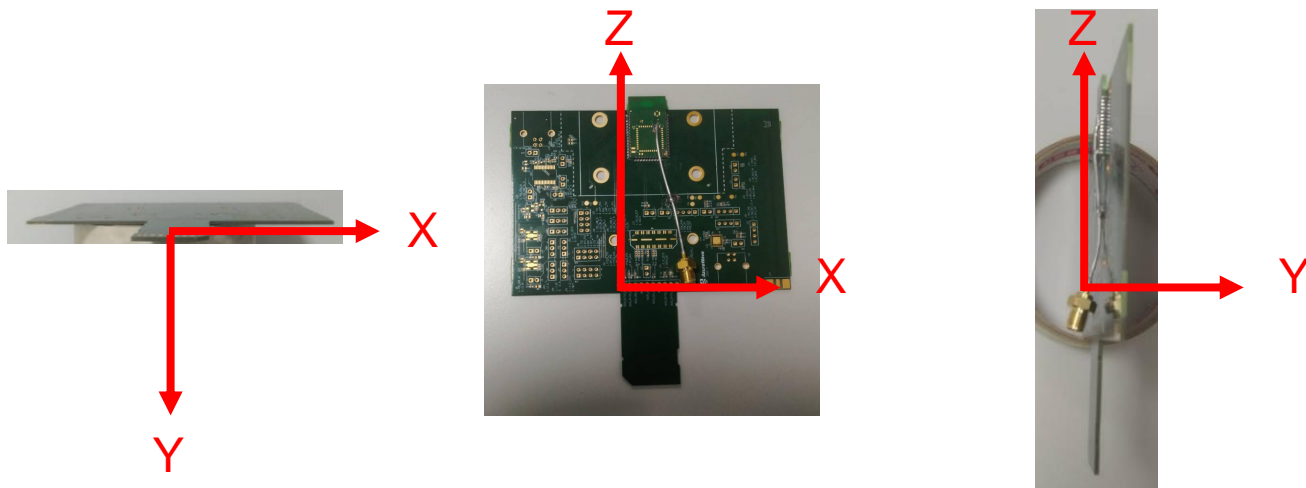


Elevation Plane
phi = 90



Peak Gain: 1.3dBi

Setup :

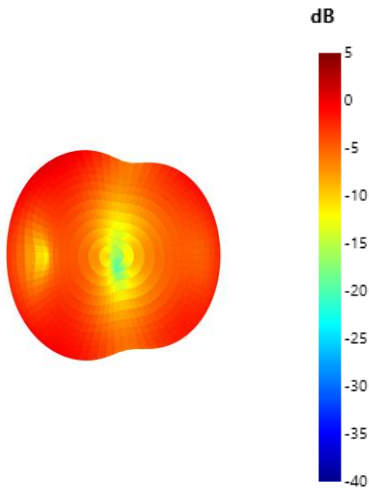


Ant.1_2.4GHz 3D. Radiation Pattern

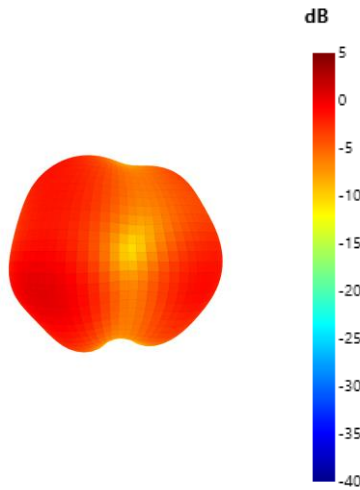
Frequency(MHz) : 3D. 2500

Radiation Pattern :

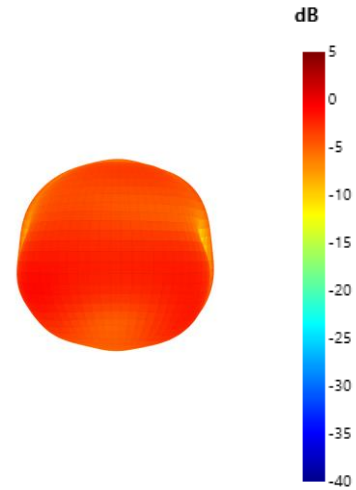
Azimuth Plane



Elevation Plane
phi = 0

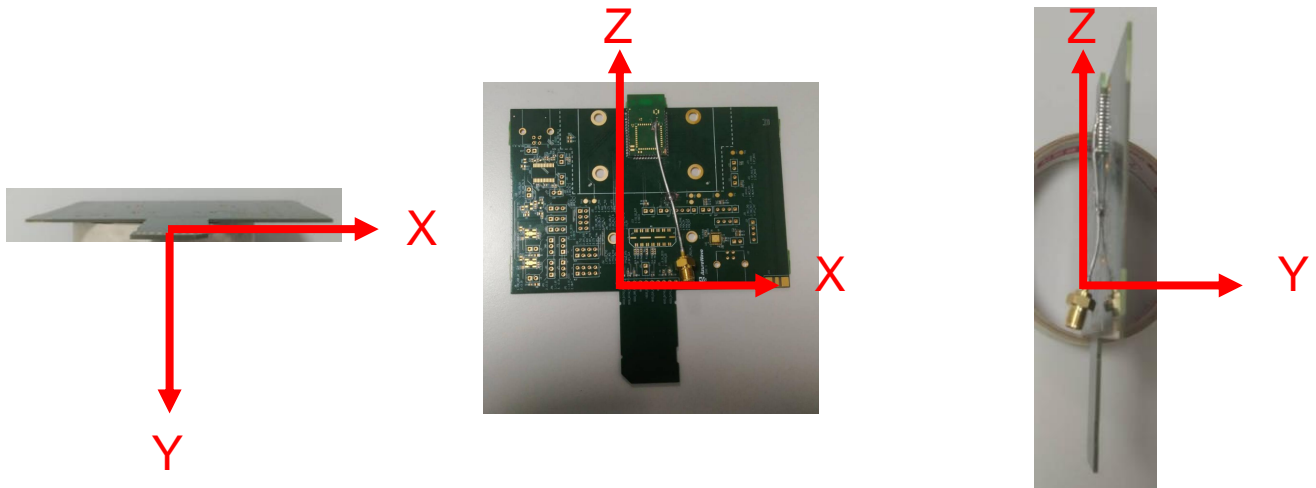


Elevation Plane
phi = 90



Peak Gain: 0.6dBi

Setup :

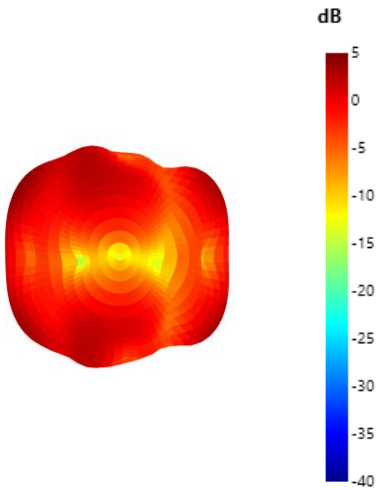


Ant.1_5GHz 3D. Radiation Pattern

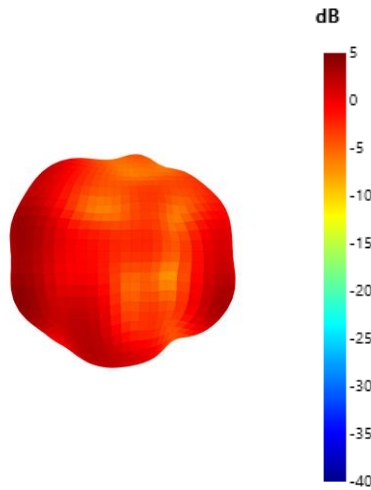
Frequency(MHz) : 3D. 5150

Radiation Pattern :

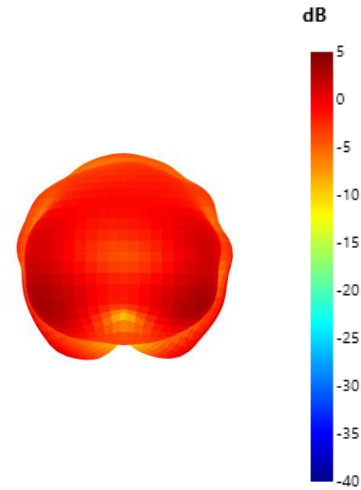
Azimuth Plane



Elevation Plane
phi = 0

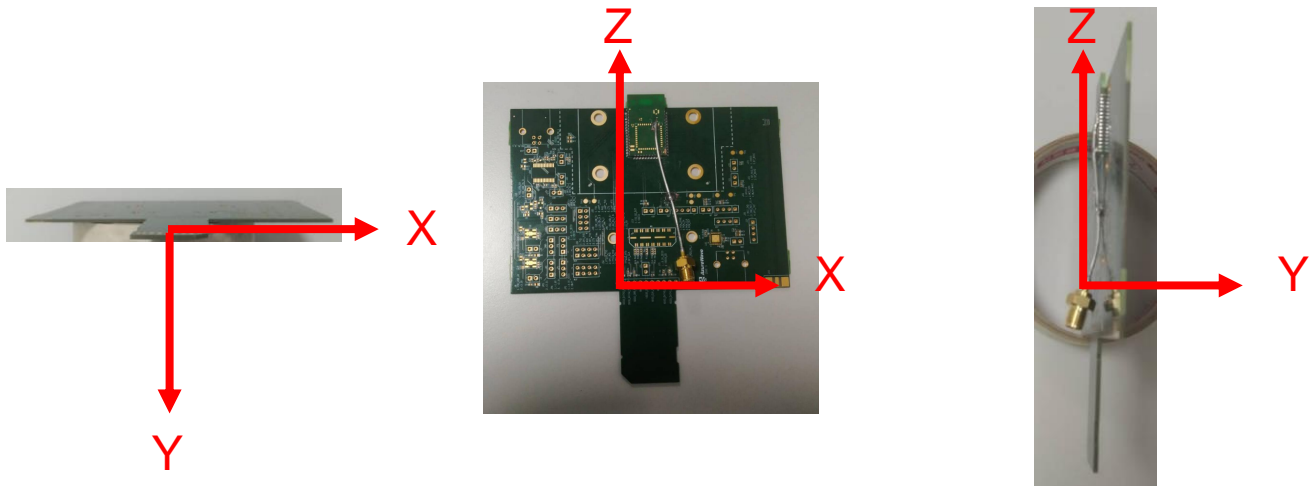


Elevation Plane
phi = 90



Peak Gain: 3.9dBi

Setup :

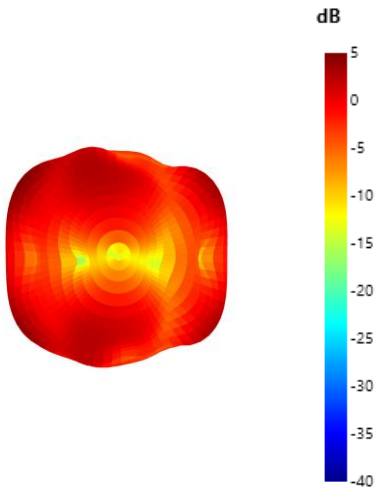


Ant.1_5GHz 3D. Radiation Pattern

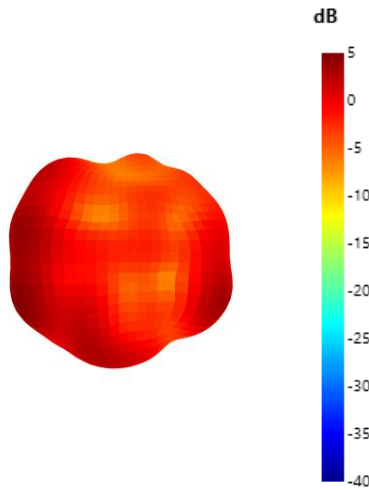
Frequency(MHz) : 3D. 5250

Radiation Pattern :

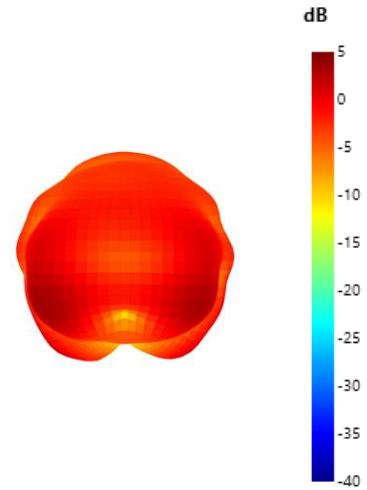
Azimuth Plane



Elevation Plane
phi = 0

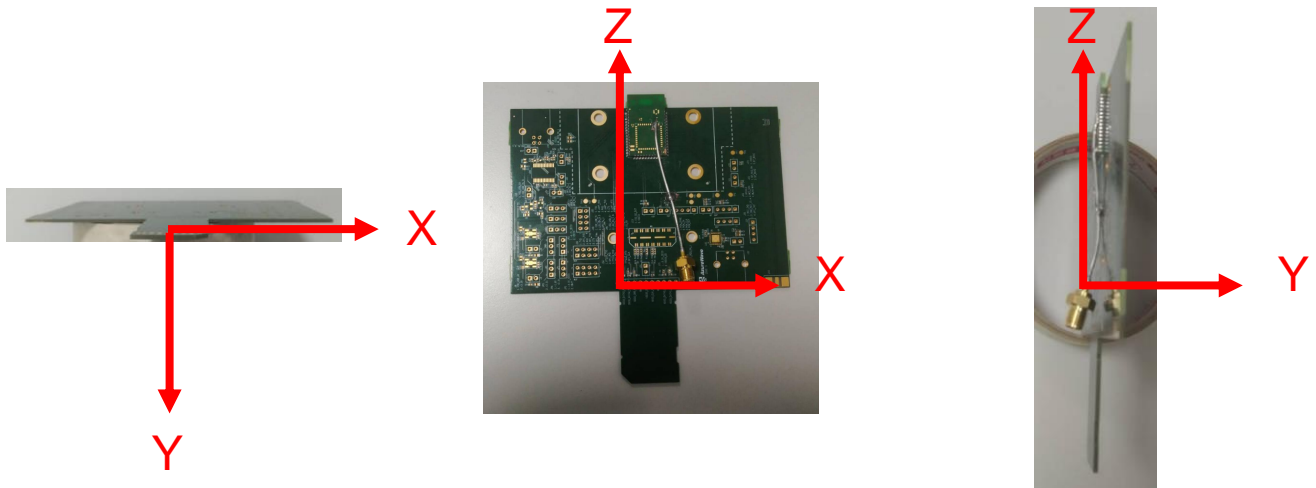


Elevation Plane
phi = 90



Peak Gain: 4.3dBi

Setup :

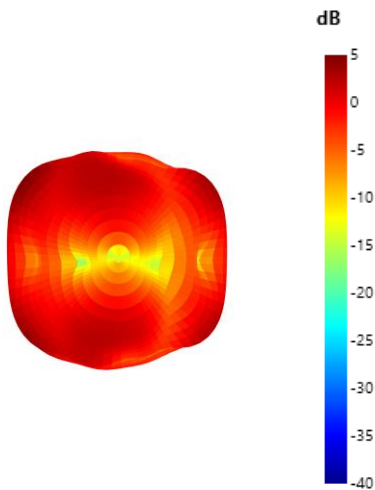


Ant.1_5GHz 3D. Radiation Pattern

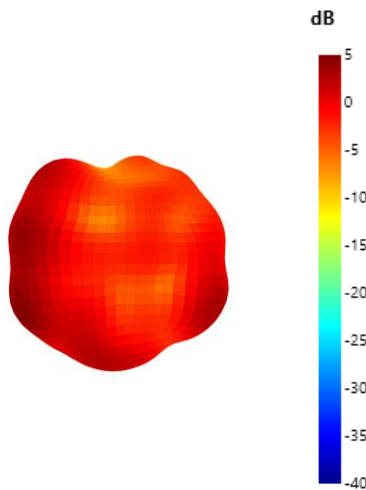
Frequency(MHz) : 3D. 5350

Radiation Pattern :

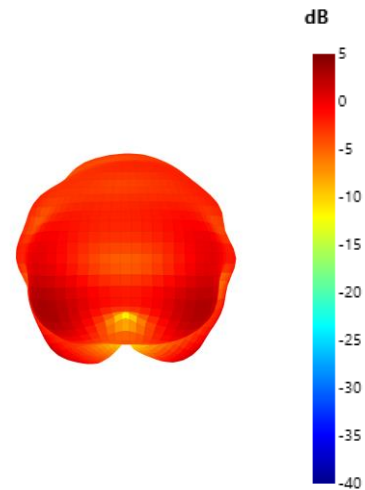
Azimuth Plane



Elevation Plane
phi = 0

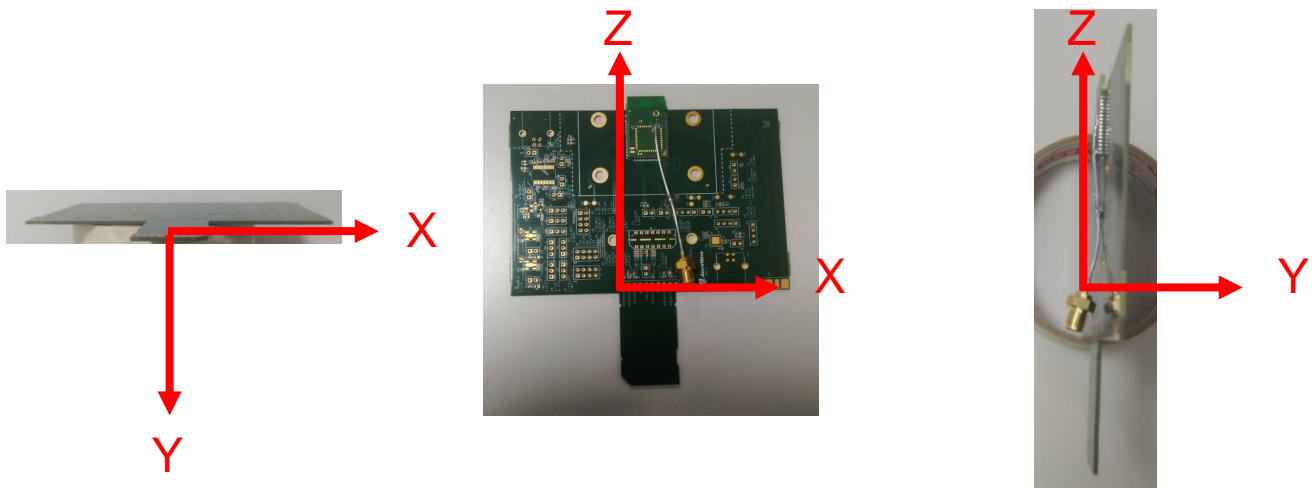


Elevation Plane
phi = 90



Peak Gain: 4.3dBi

Setup :

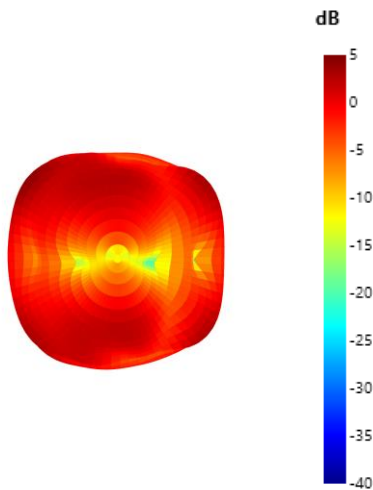


Ant.1_5GHz 3D. Radiation Pattern

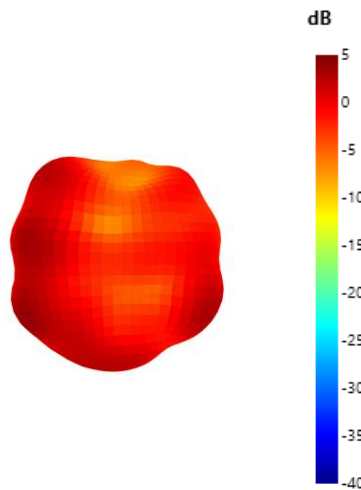
Frequency(MHz) : 3D. 5470

Radiation Pattern :

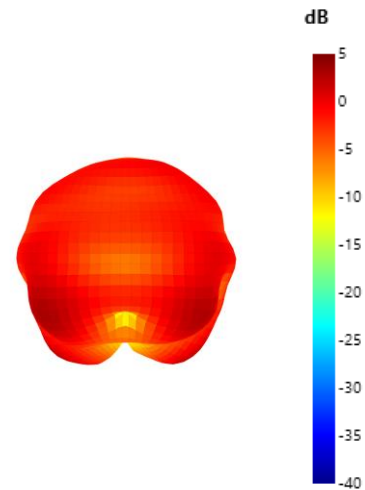
Azimuth Plane



Elevation Plane
phi = 0

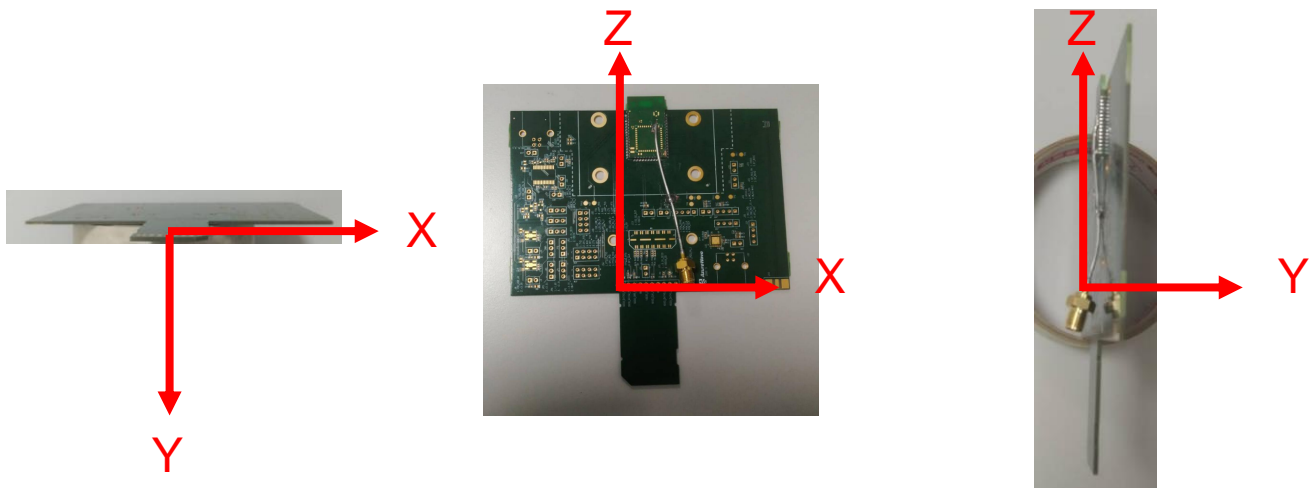


Elevation Plane
phi = 90



Peak Gain: 3.6dBi

Setup :

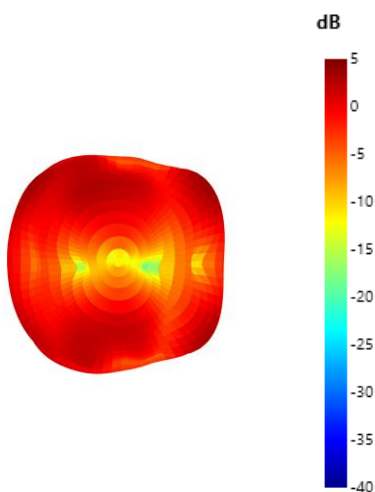


Ant.1_5GHz 3D. Radiation Pattern

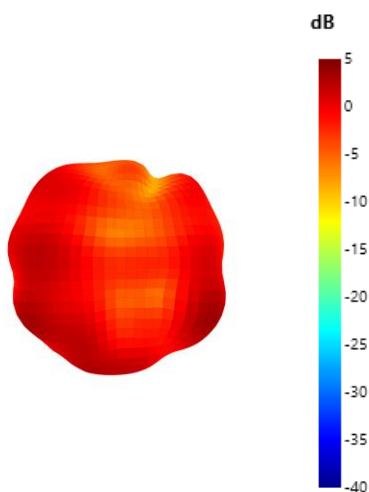
Frequency(MHz) : 3D. 5600

Radiation Pattern :

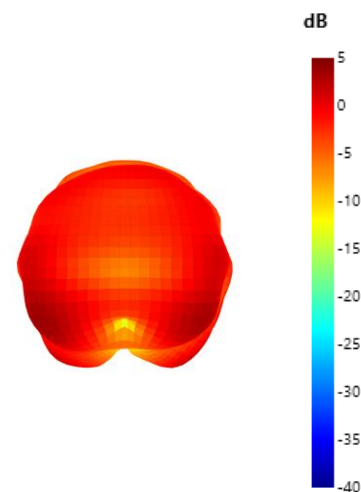
Azimuth Plane



Elevation Plane
phi = 0

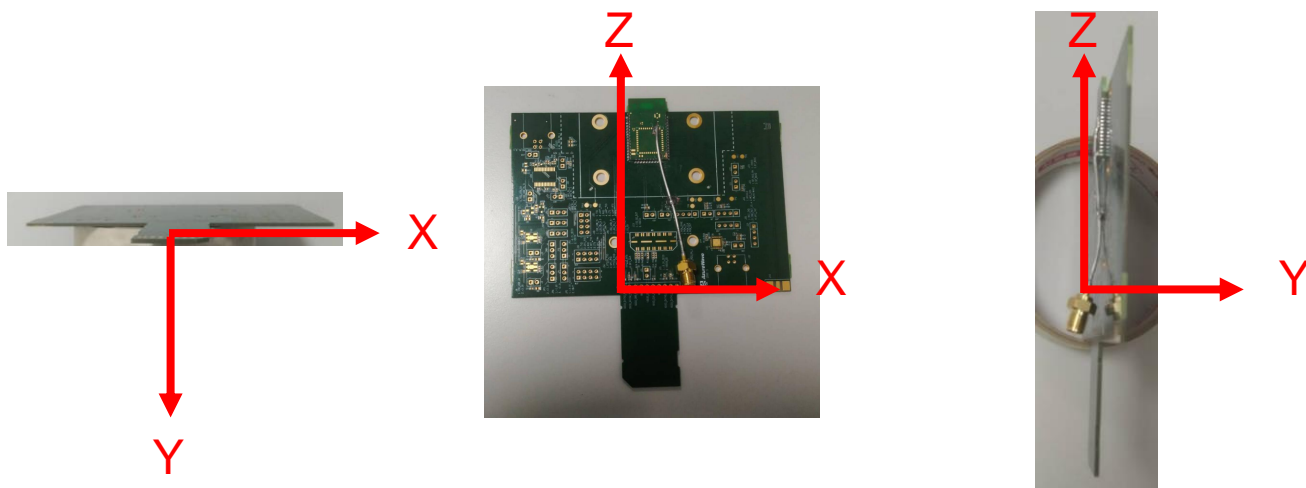


Elevation Plane
phi = 90



Peak Gain: 3.2dBi

Setup :

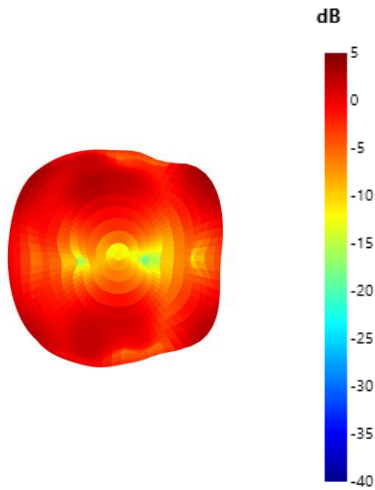


Ant.1_5GHz 3D. Radiation Pattern

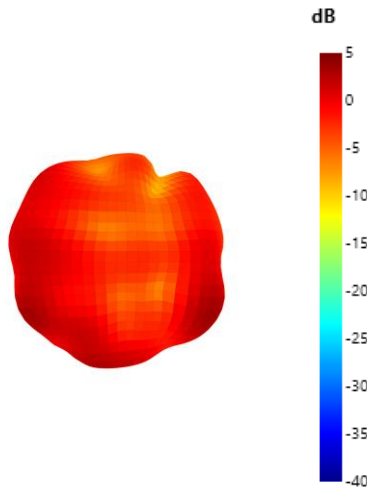
Frequency(MHz) : 3D. 5725

Radiation Pattern :

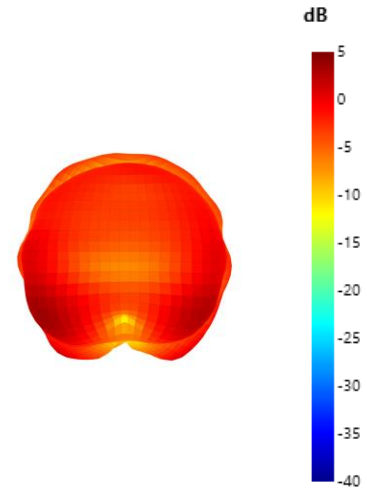
Azimuth Plane



Elevation Plane
phi = 0

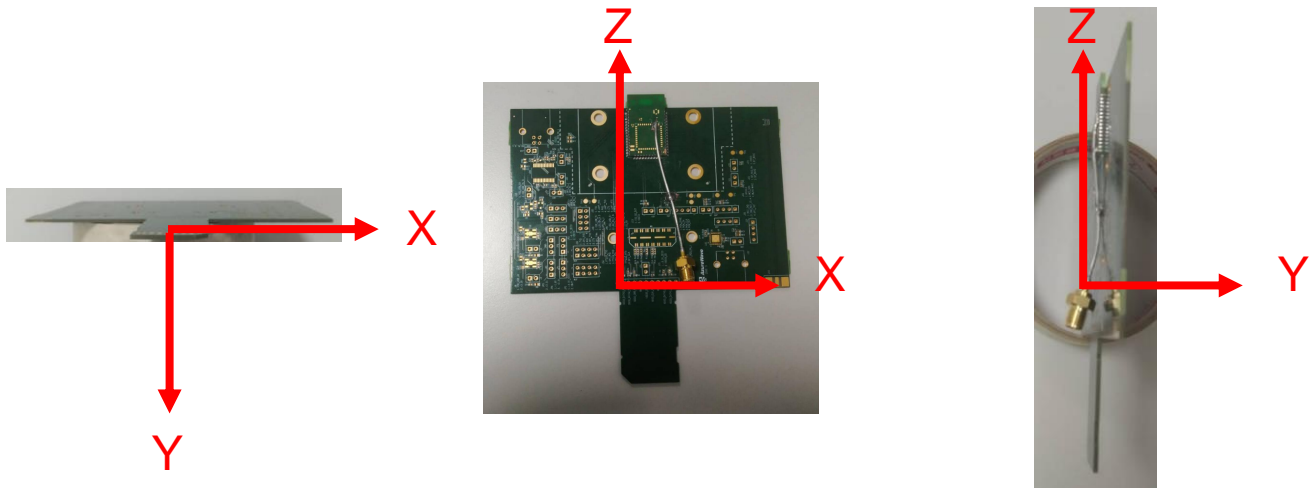


Elevation Plane
phi = 90



Peak Gain: 3.1dBi

Setup :

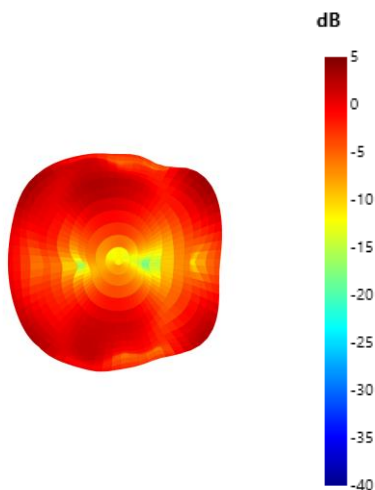


Ant.1_5GHz 3D. Radiation Pattern

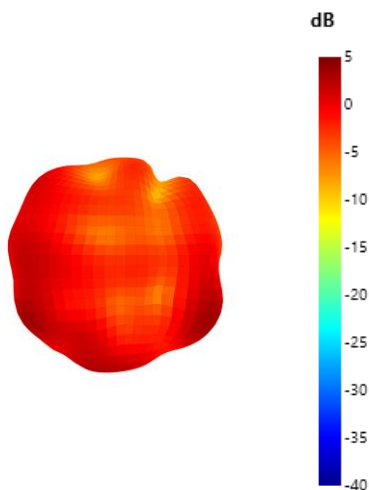
Frequency(MHz) : 3D. 5785

Radiation Pattern :

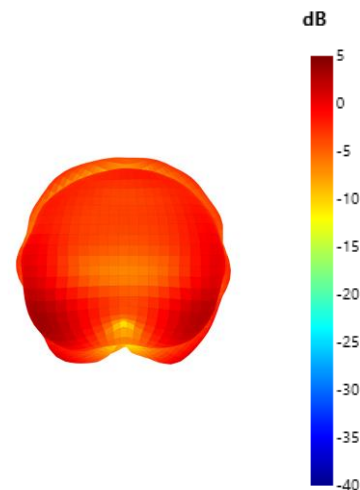
Azimuth Plane



Elevation Plane
phi = 0

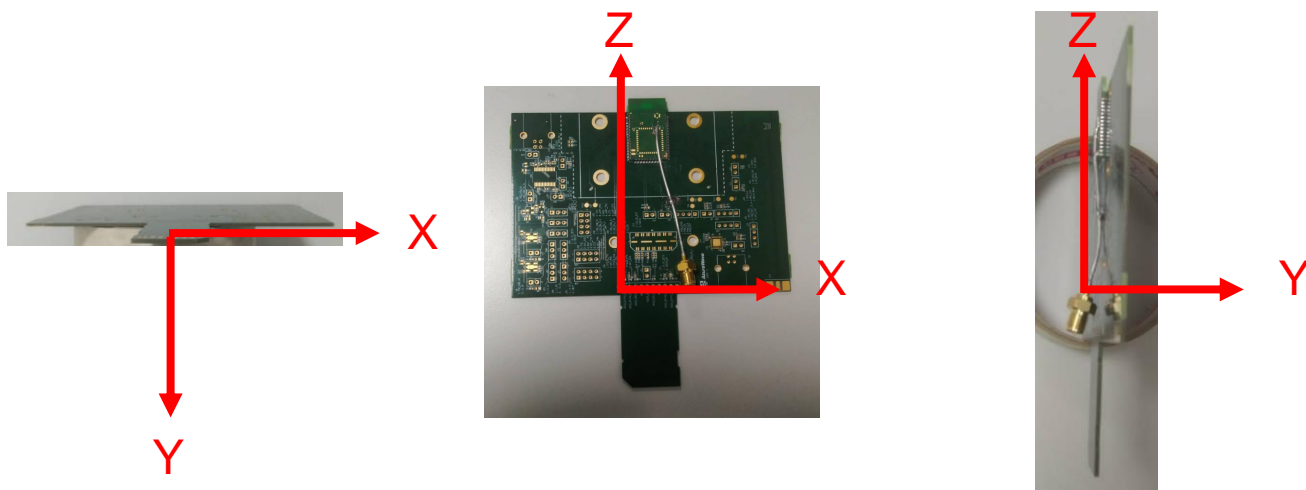


Elevation Plane
phi = 90



Peak Gain: 3.1dBi

Setup :

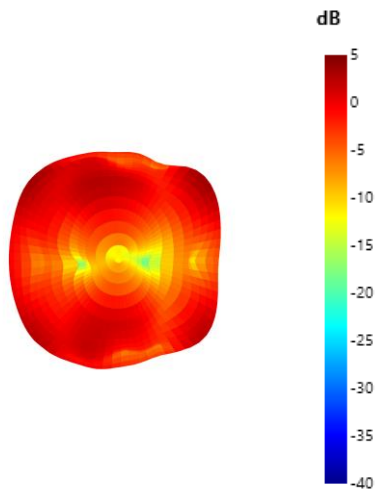


Ant.1_5GHz 3D. Radiation Pattern

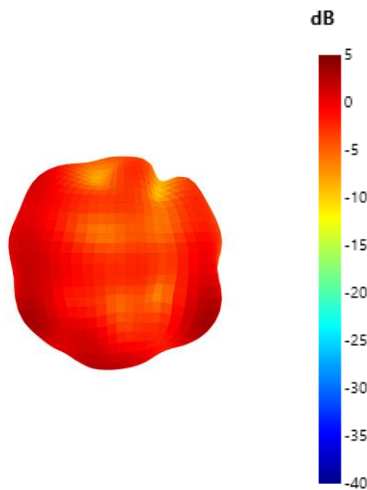
Frequency(MHz) : 3D. 5850

Radiation Pattern :

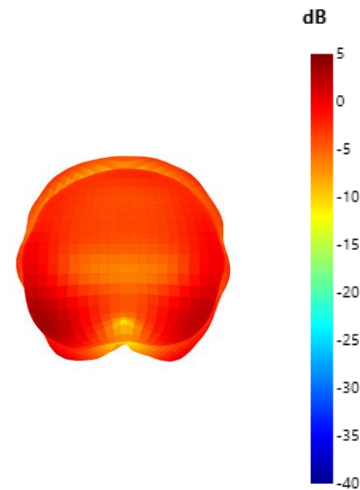
Azimuth Plane



Elevation Plane
phi = 0

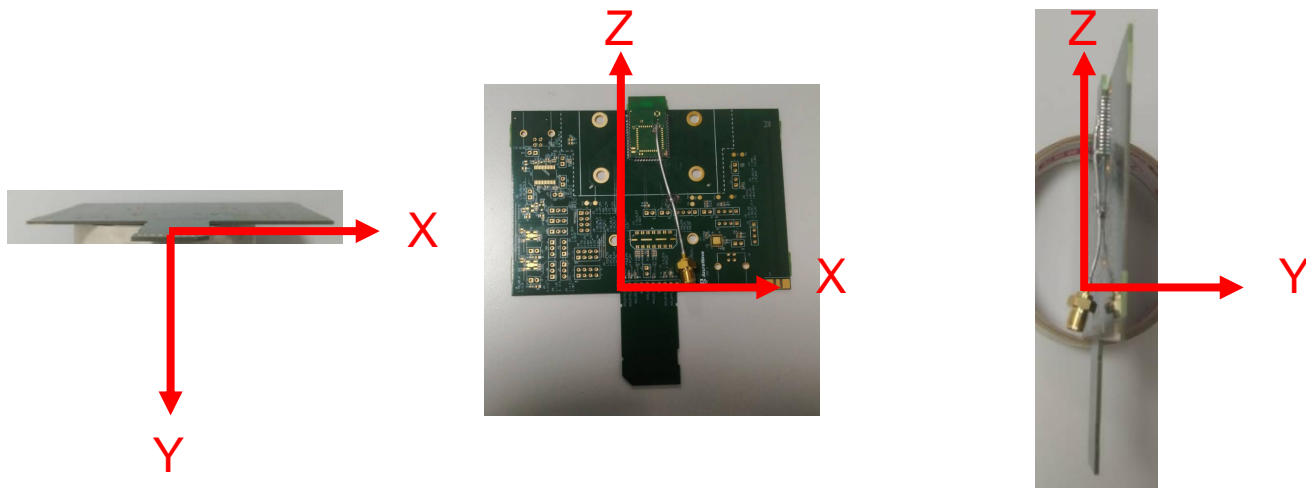


Elevation Plane
phi = 90



Peak Gain: 3.0dBi

Setup :



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