

# Antenna Test Report

Manufacture : Xiamen Luoerte Technology Co., Ltd

Product Name: PCB Antenna

Antenna Type : PCB

Test Date : 2024/09/05

Tested by: Judson Du

Approved by:

*Sun Zhong*



---

## 1. General Description

Manufacturer	Xiamen Luoerte Technology Co., Ltd
Address	301D2, No. 34-1 Guanri Road, Phase II, Software Park, Siming District, Xiamen city
Test Location	No. 113, Pingkang Road, Dalang Town, Dongguan City, Guangdong Province
Product Name	PCB Antenna
Antenna Type	PCB
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2402-2480MHz

---

## 2. Test Configurations

### Test Environment

Temperature (°C)	22.3
Humidity (%RH)	54.3
Atmospheric Pressure (kPa)	101.9

### Test Equipment

Test Instrument	Agilent ZNB8
-----------------	--------------

---

### 3. Test Results

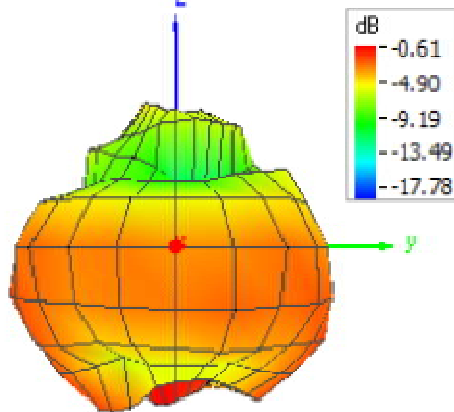
#### Gain and Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2402	-0.58	33.63
2440	0.61	45.49
2480	1.54	55.44

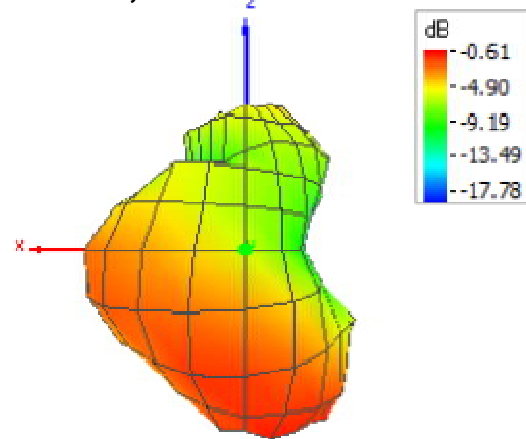
## 4. Radiation Pattern

### 2402MHz 3D

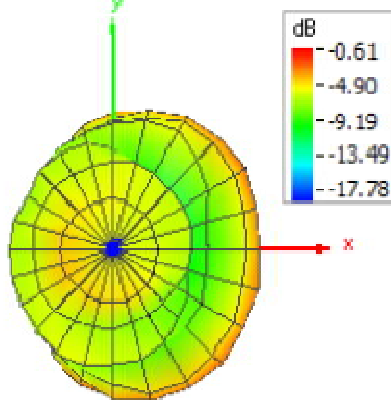
Theta = 90, Phi = 0



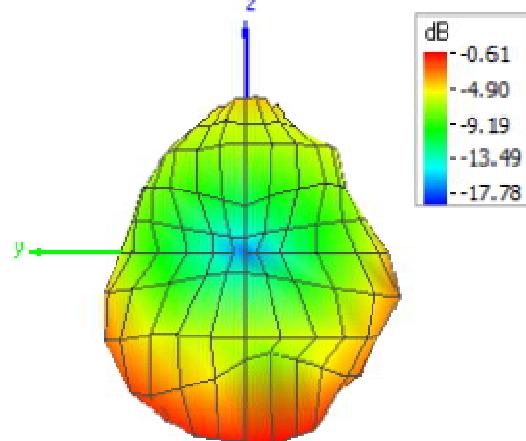
Theta = 90, Phi = 90



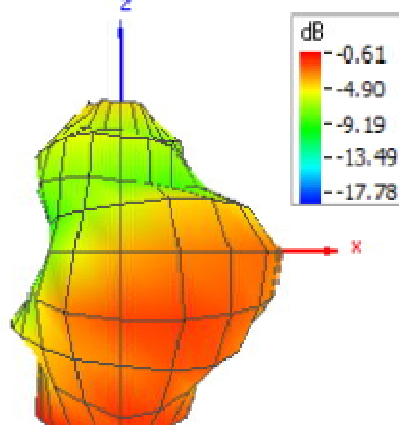
Theta = 0, Phi = 0



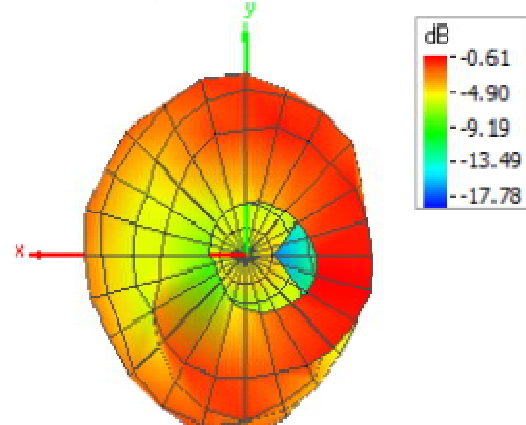
Theta = 90, Phi = 180



Theta = 90, Phi = 270

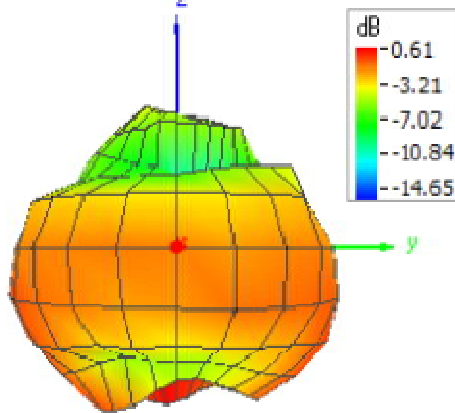


Theta = 180, Phi = 0

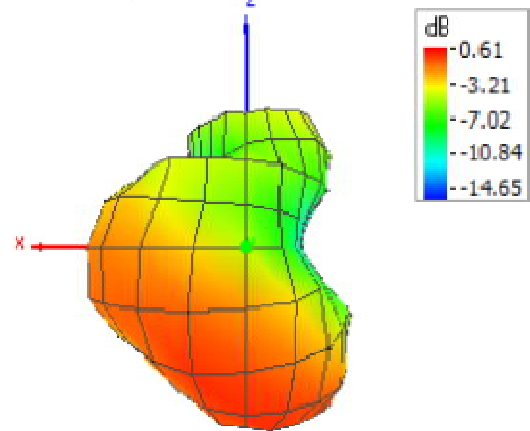


## 2440MHz 3D

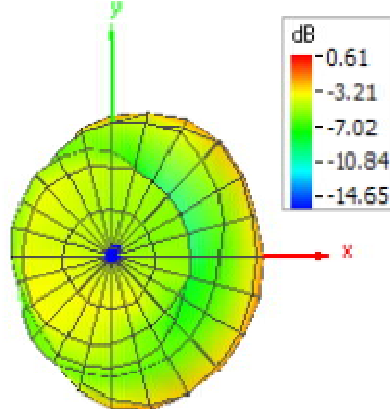
Theta = 90, Phi = 0



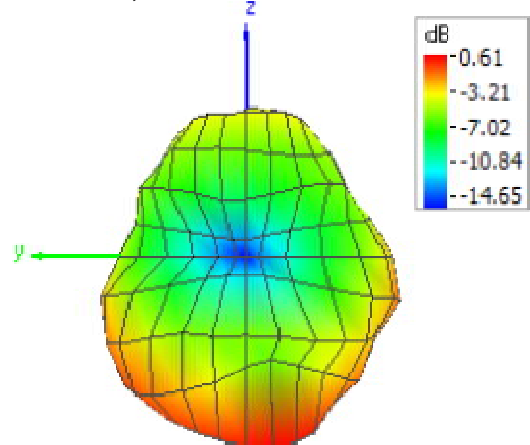
Theta = 90, Phi = 90



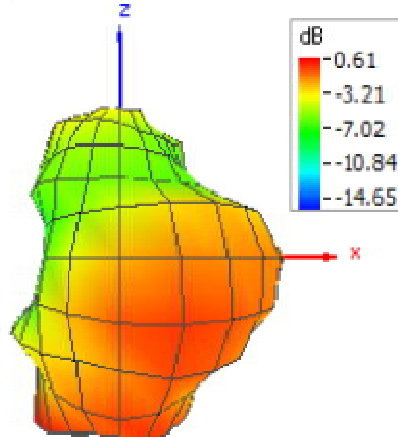
Theta = 0, Phi = 0



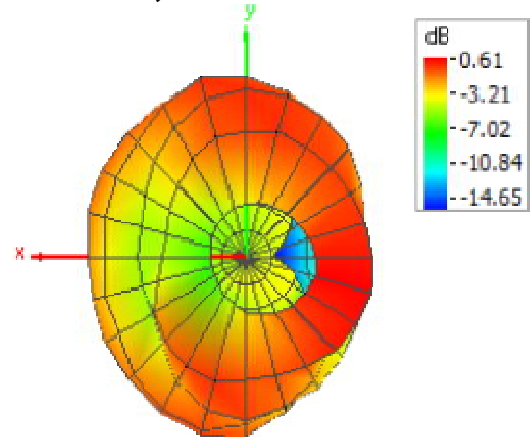
Theta = 90, Phi = 180



Theta = 90, Phi = 270

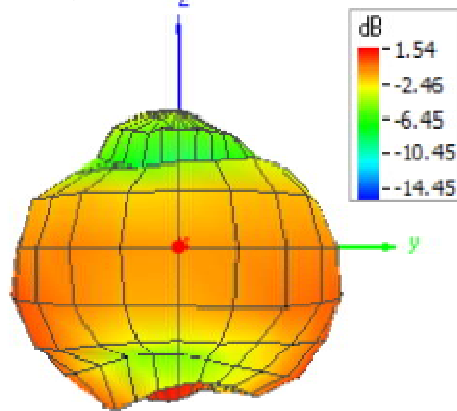


Theta = 180, Phi = 0

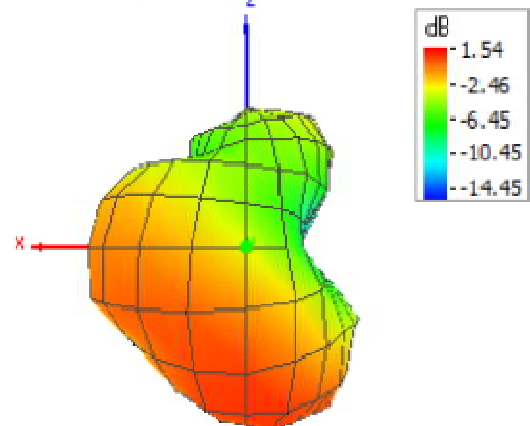


## 2480MHz 3D

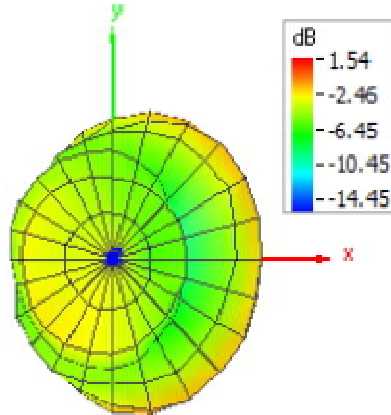
Theta = 90, Phi = 0



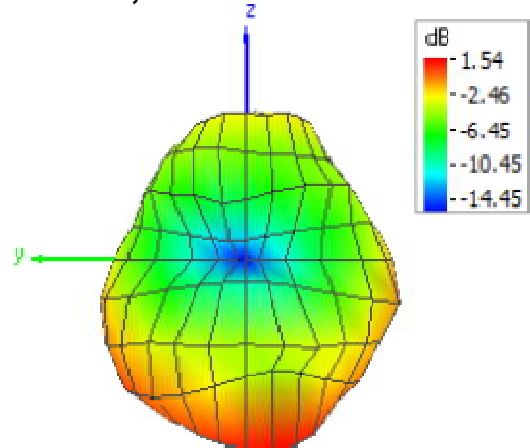
Theta = 90, Phi = 90



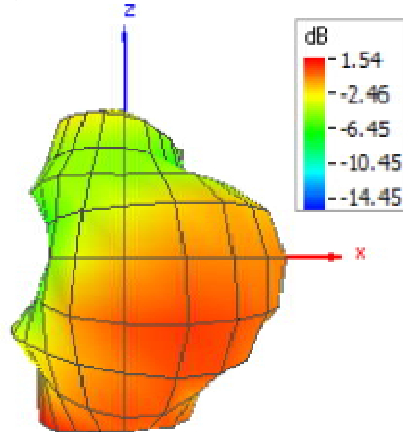
Theta = 0, Phi = 0



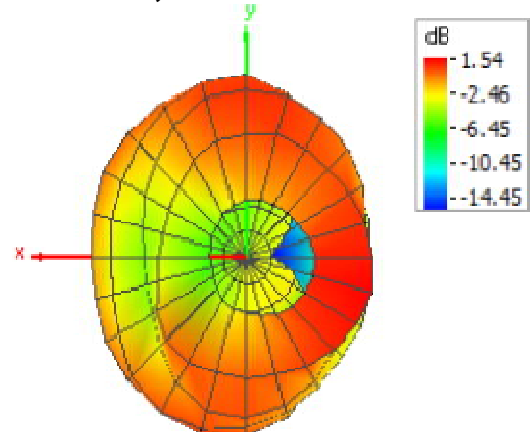
Theta = 90, Phi = 180



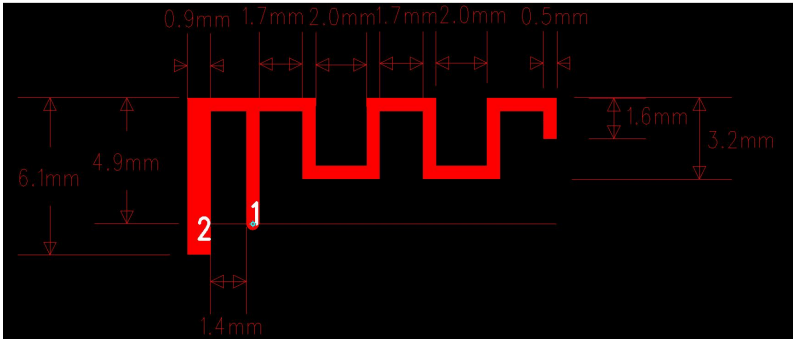
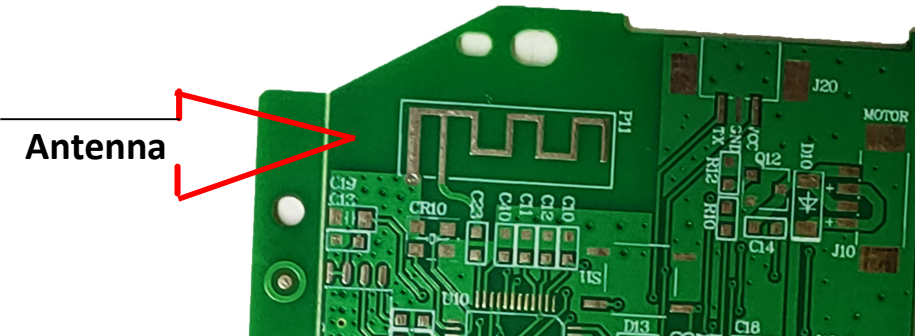
Theta = 90, Phi = 270



Theta = 180, Phi = 0



## 5. EUT Photo



## 6. Test Setup Photo

