

# Antenna Test Report

Manufacture: SHENZHEN ELEMENT X TECHNOLOGY  
CO.,LTD

Product Name: 2.4G ANT

Antenna Type: Chip

Test Date: 2024/3/7

Tested by: Judson Du

Approved by: Sun Zhong

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## 1. General Description

Manufacturer	SHENZHEN ELEMENT X TECHNOLOGY CO.,LTD
Address	Room 1322A01, Haiyuan Innovation Center, No. 8 Fu'an Avenue, Hehua Community, Pinghu Street, Longgang District, Shenzhen
Test Location	No. 113, Pingkang Road, Dalang Town, Dongguan City, Guangdong Province
Product Name	2.4G ANT
Antenna Type	Chip
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2402-2480MHz

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## 2. Test Configurations

### Test Environment

Temperature (°C)	21.5
Humidity (%RH)	56
Atmospheric Pressure (kPa)	100.9

### Test Equipment

Test Instrument	Rohde&Shwarz ZNB8
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### 3. Test Results

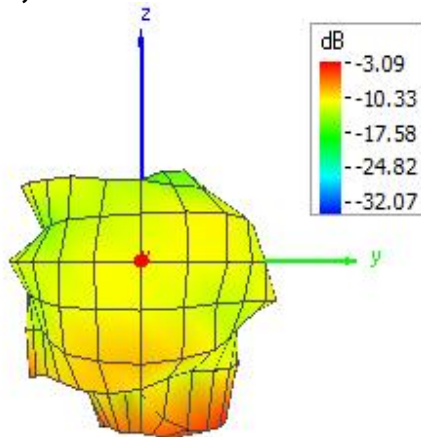
#### Gain and Efficiency

Frequency (MHz)	Peak Gain (dB)	Efficiency (%)
2400	-3.09	8.42
2450	-1.56	13.10
2500	-0.45	15.42

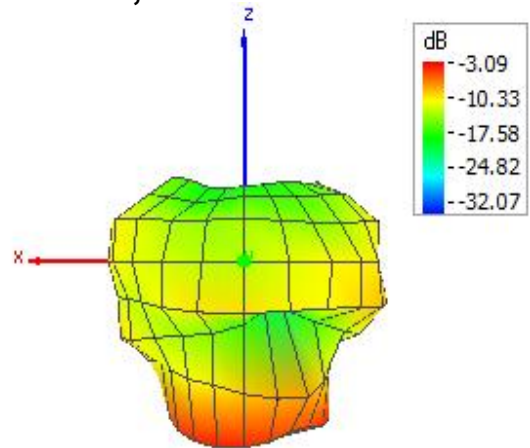
## 4. Radiation Pattern

### 2400MHz 3D

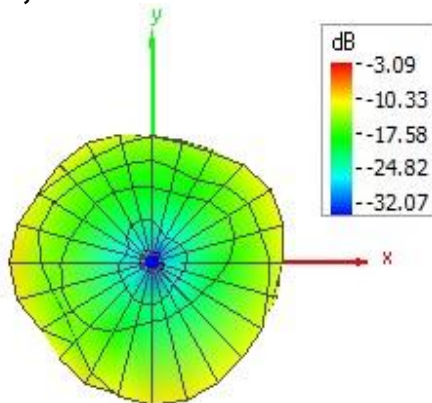
Theta = 90, Phi = 0



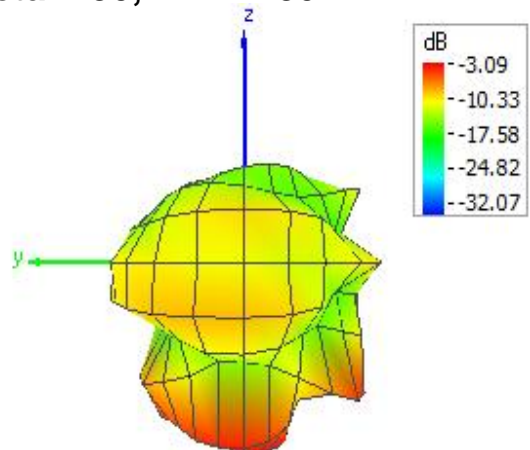
Theta = 90, Phi = 90



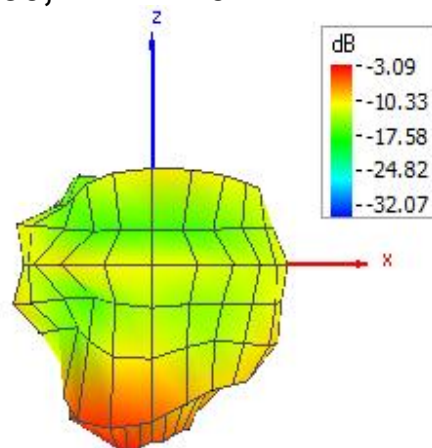
Theta = 0, Phi = 0



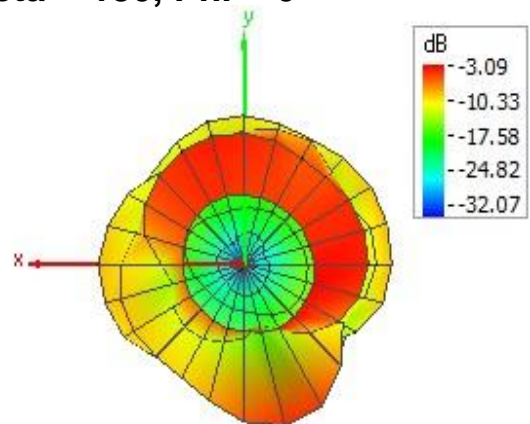
Theta = 90, Phi = 180



Theta = 90, Phi = 270

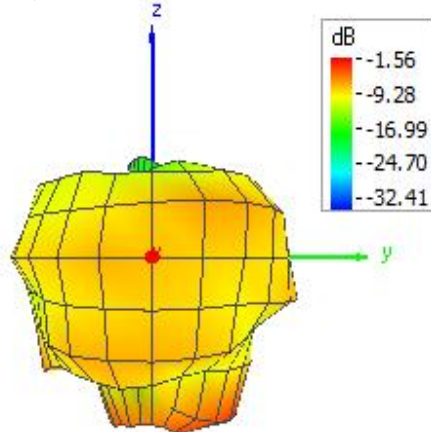


Theta = 180, Phi = 0

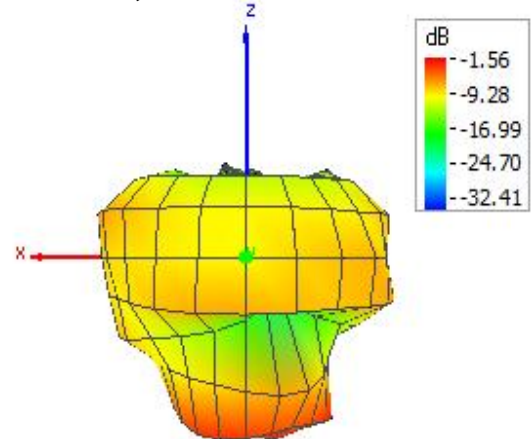


## 2450MHz 3D

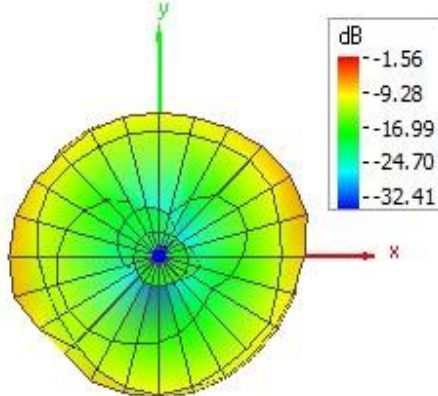
Theta = 90, Phi = 0



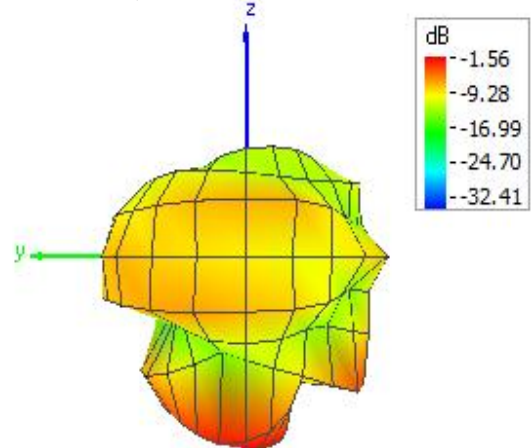
Theta = 90, Phi = 90



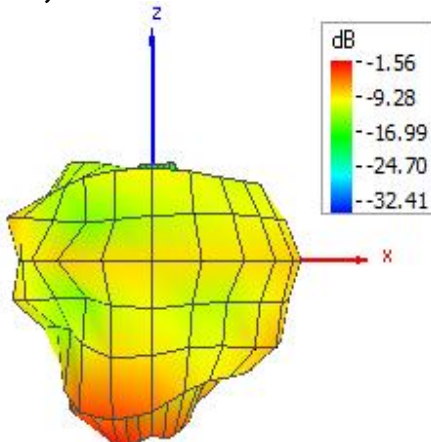
Theta = 0, Phi = 0



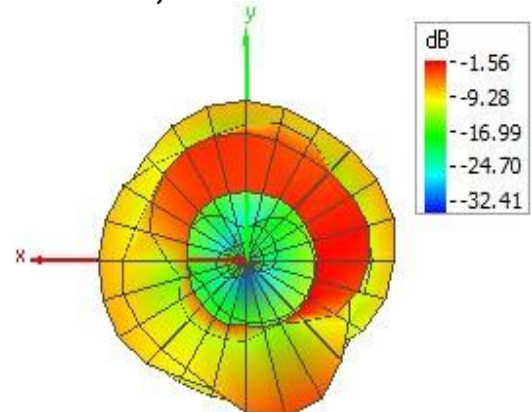
Theta = 90, Phi = 180



Theta = 90, Phi = 270

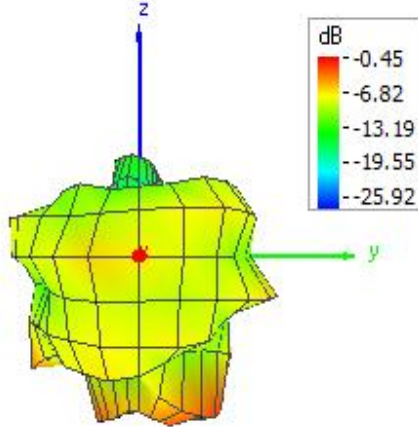


Theta = 180, Phi = 0

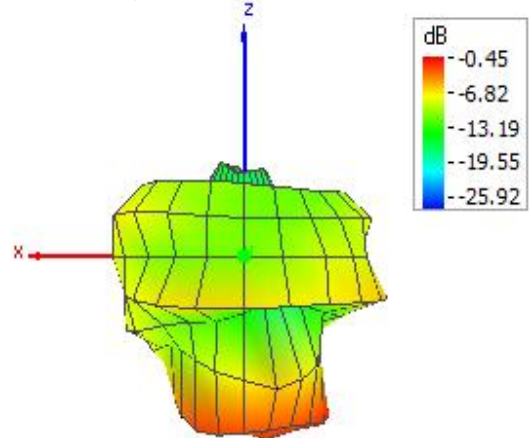


## 2500MHz 3D

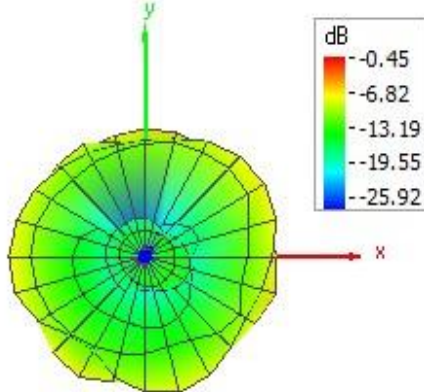
Theta = 90, Phi = 0



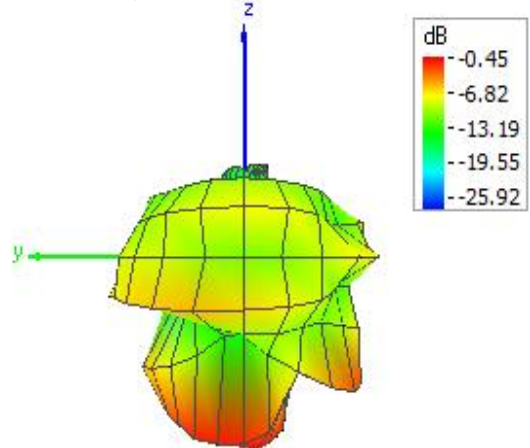
Theta = 90, Phi = 90



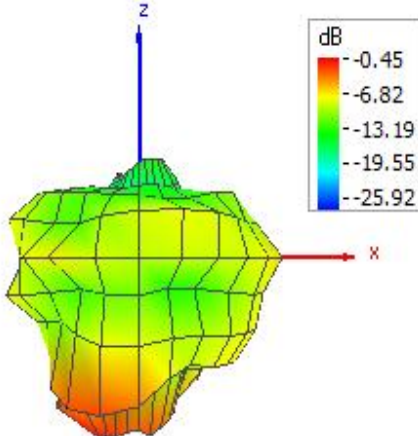
Theta = 0, Phi = 0



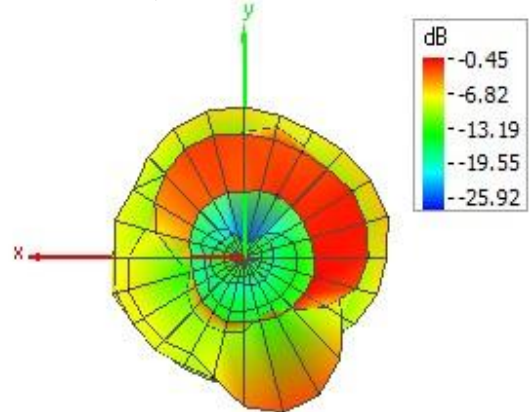
Theta = 90, Phi = 180



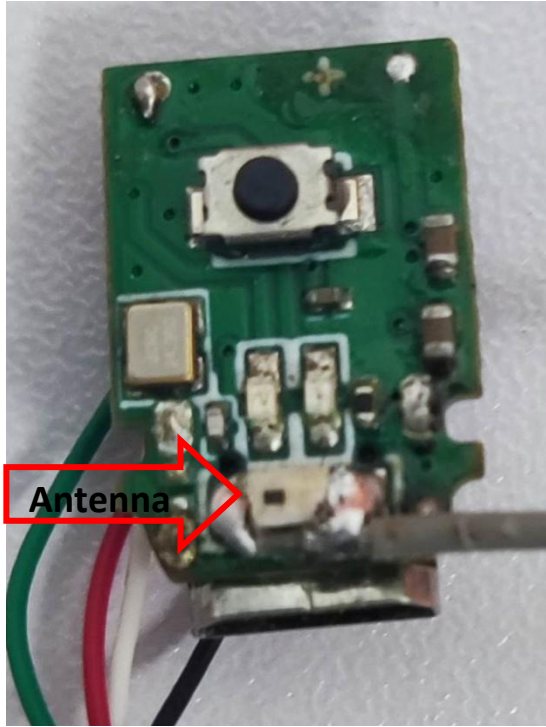
Theta = 90, Phi = 270



Theta = 180, Phi = 0



## 5. EUT Photo



## 6. Test Setup Photo

