

# WiFi Antenna Test Report

Customer	
Project	
Antenna Revision	A0
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Date:	2024. 01. 29

## ***Purpose***

This report is to measure the performance of WIFI antenna for external antenna. The antenna operating frequency at 2.4-2.5GHz, All test data are showed as below.

## ***Content***

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
  - 4.1 S11 Parameter
  - 4.2 Gain & Efficiency
  - 4.3 2D 3D Pattern
5. Conclusion

# ***1.Product Overview & Dimension***

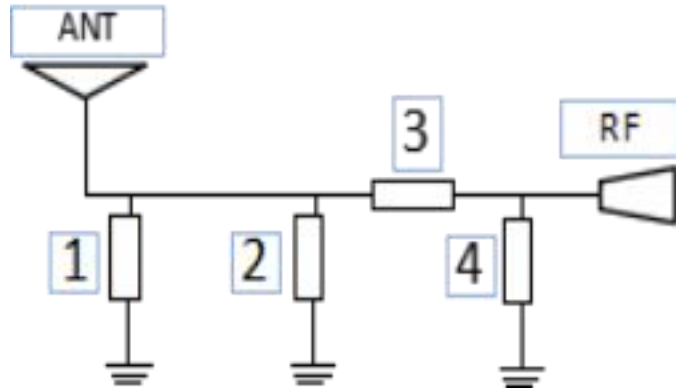
Antenna



## ***2.Test System***

<b>Sequence Number</b>	<b>equipment</b>
S11 Parameter	<b>Agilent 5071B</b>
<b>OTA Test</b>	<b>Agilent 5071B &amp;CMW500 &amp; Agilent 8960 &amp; Fly to the dark room</b>
<b>Gain &amp; Efficiency</b>	<b>Agilent 5071B &amp;Fly to the dark room</b>

### 3. Antenna Matching Network

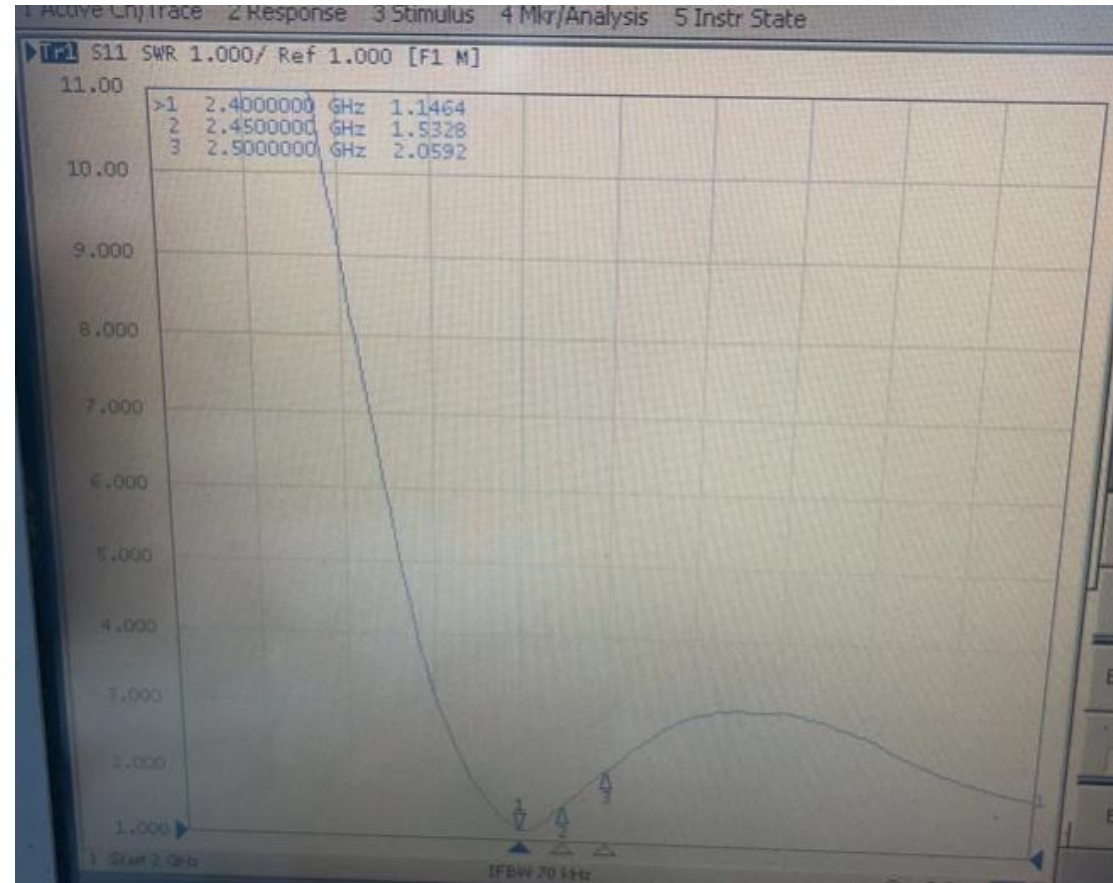


Element	Capacitor	Inductor
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A

The matching circuit on the PCB board has not been changed

## 4. Test Result

### 4.1 S11 Parameter-VSWR



Frequency	2400	2450	2500
VSWR	1.14	1.53	2.05

## 4. Test Result

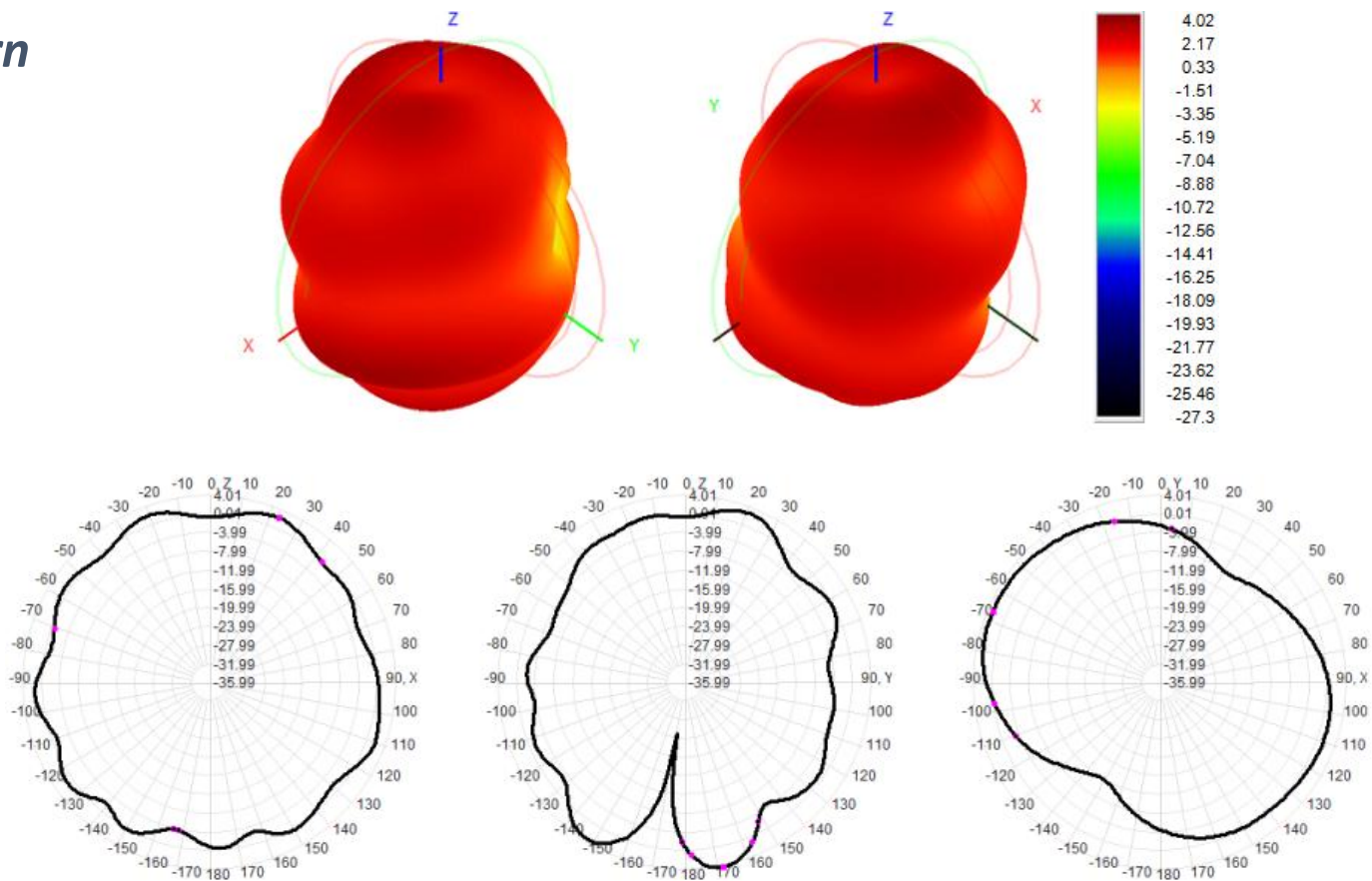
### 4.2 Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	79.32	4.02
2450	79.17	4.39
2500	72.02	3.79

# 4. Test Result

## 4.4 2D 3D Pattern

2400MHz

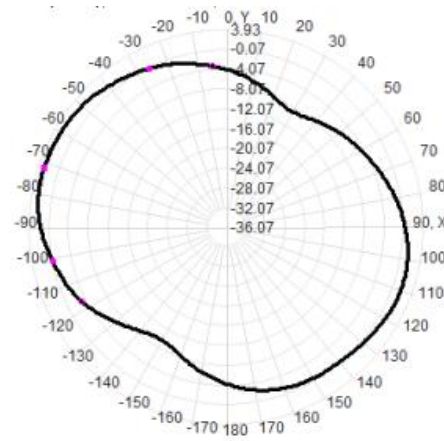
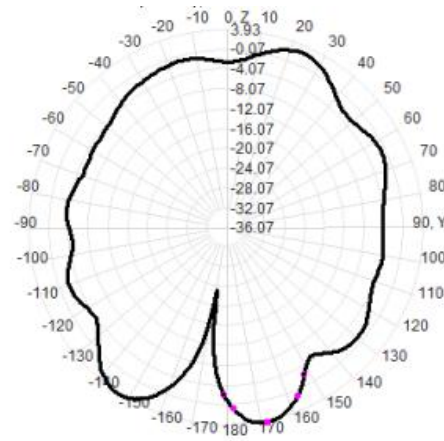
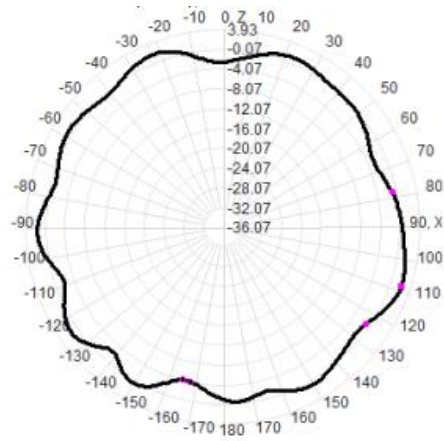
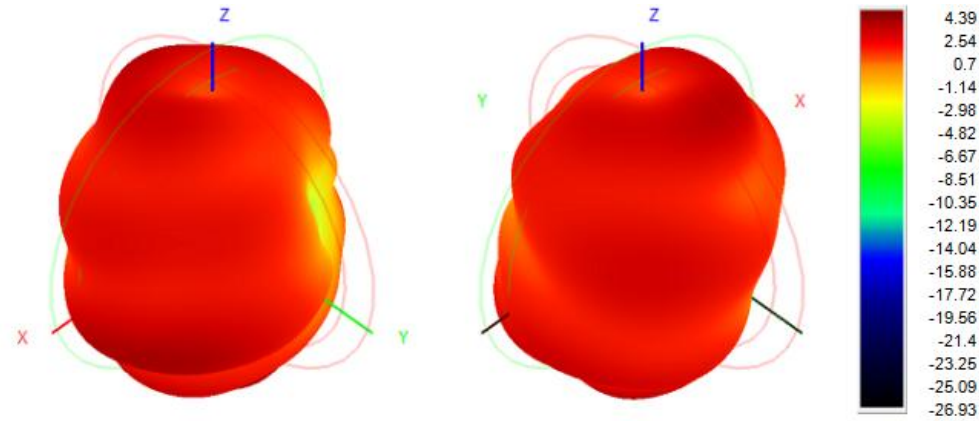




# 4. Test Result

## 4.4 2D 3D Pattern

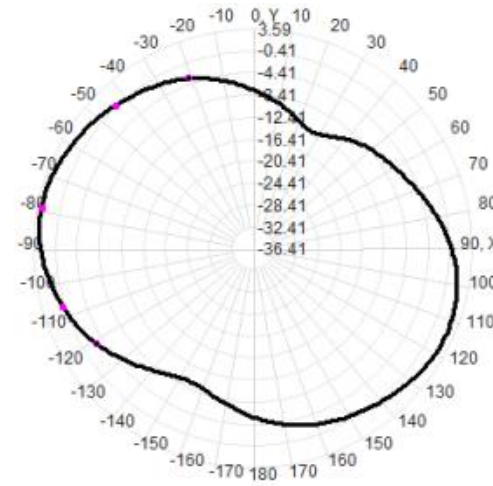
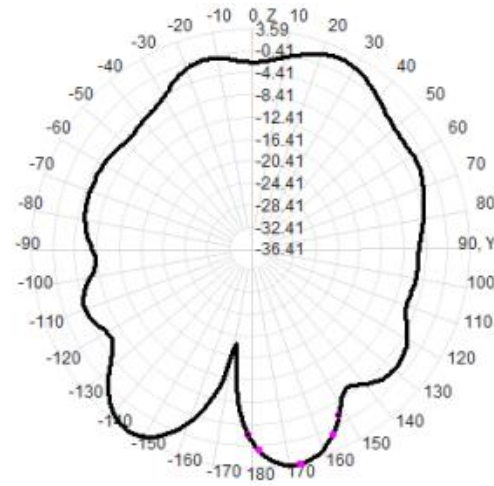
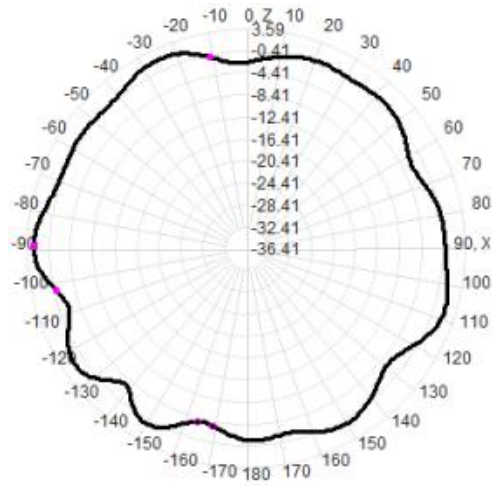
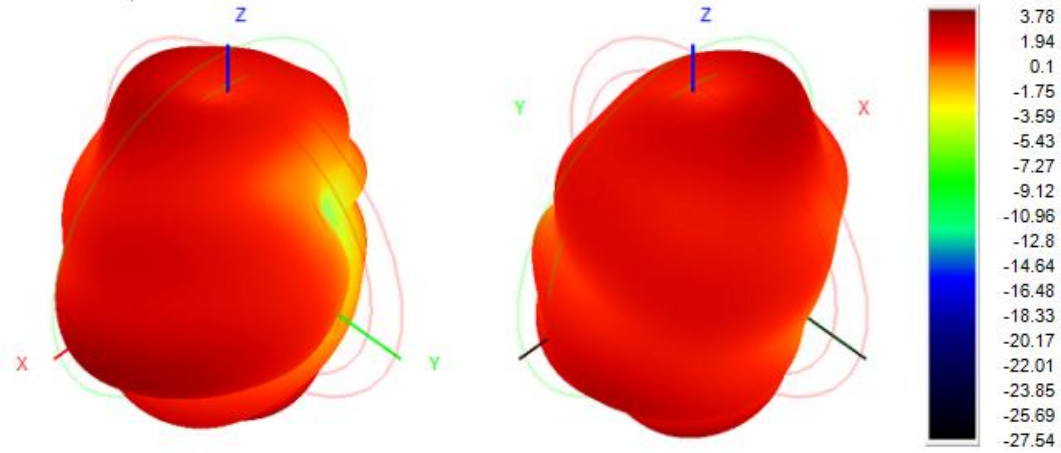
2450MHz



# 4. Test Result

## 4.4 2D 3D Pattern

2500MHz



## 5. Conclusion

It can be seen from the passive test that the antenna works weell.If you have any other questions,please contact us in time.Thank you.