

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.

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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

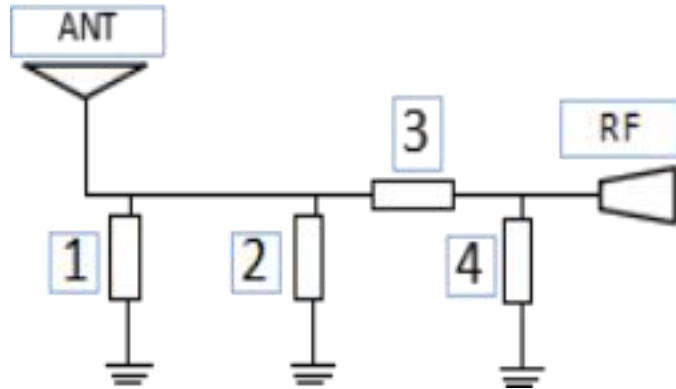
Antenna



2.Test System

Sequence Number	equipment
S11 Parameter	Agilent 5071B
OTA Test	Agilent 5071B &CMW500 & Agilent 8960 & Fly to the dark room
Gain & Efficiency	Agilent 5071B &Fly to the dark room

3. Antenna Matching Network

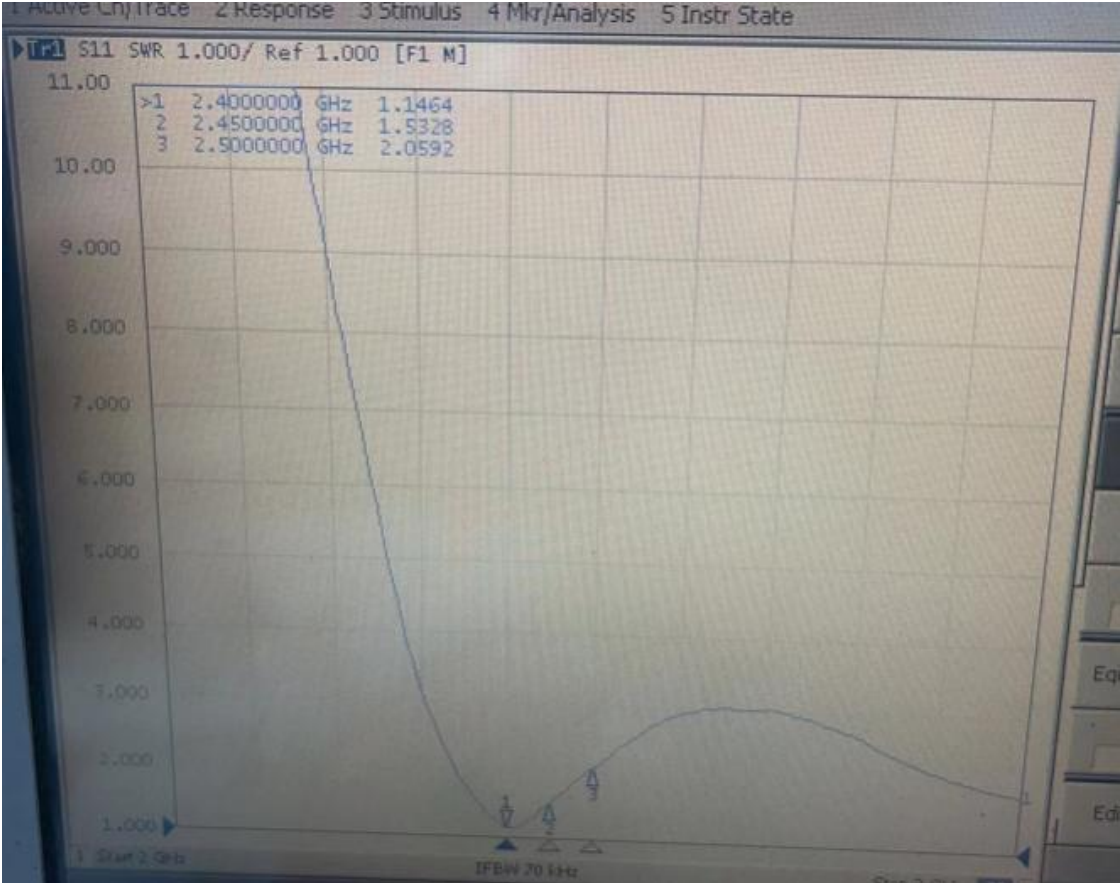


Element	Capacitor	Inductor
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A

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

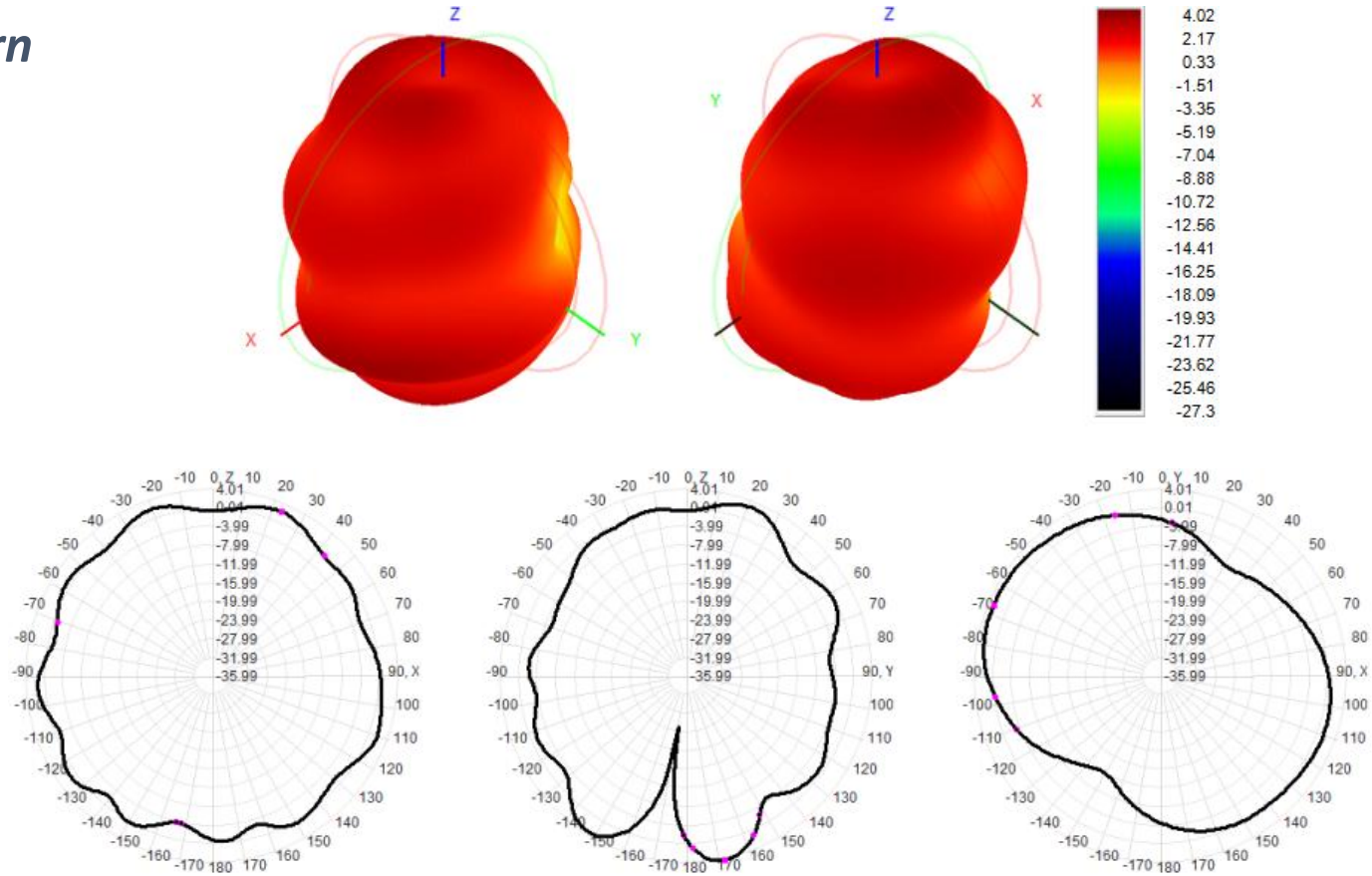
4.2 Gain & Efficiency

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

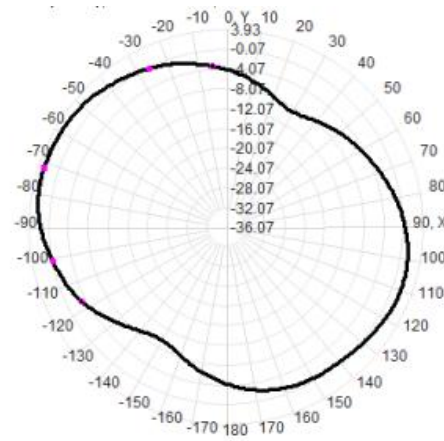
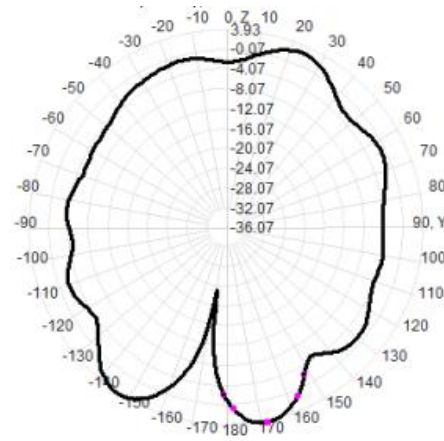
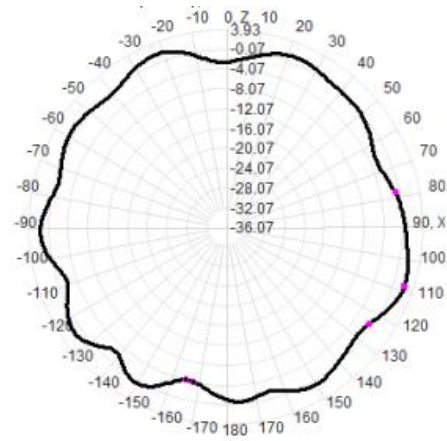
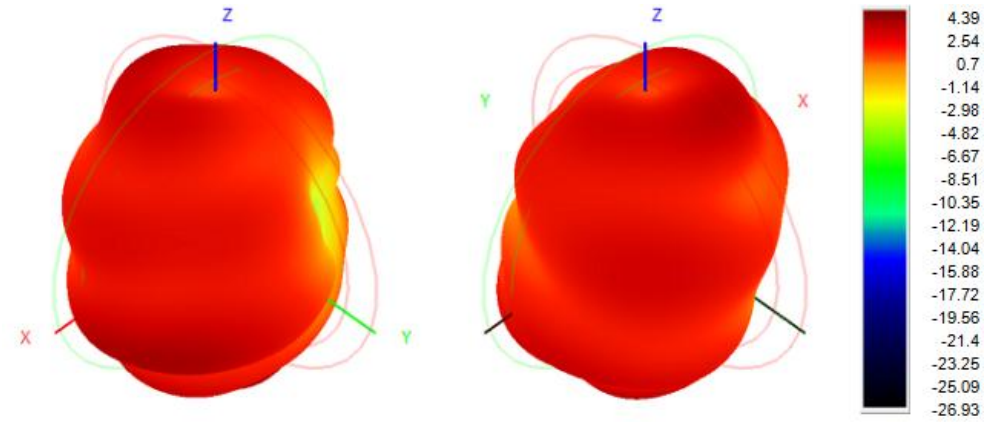
2400MHz



4. Test Result

4.4 2D 3D Pattern

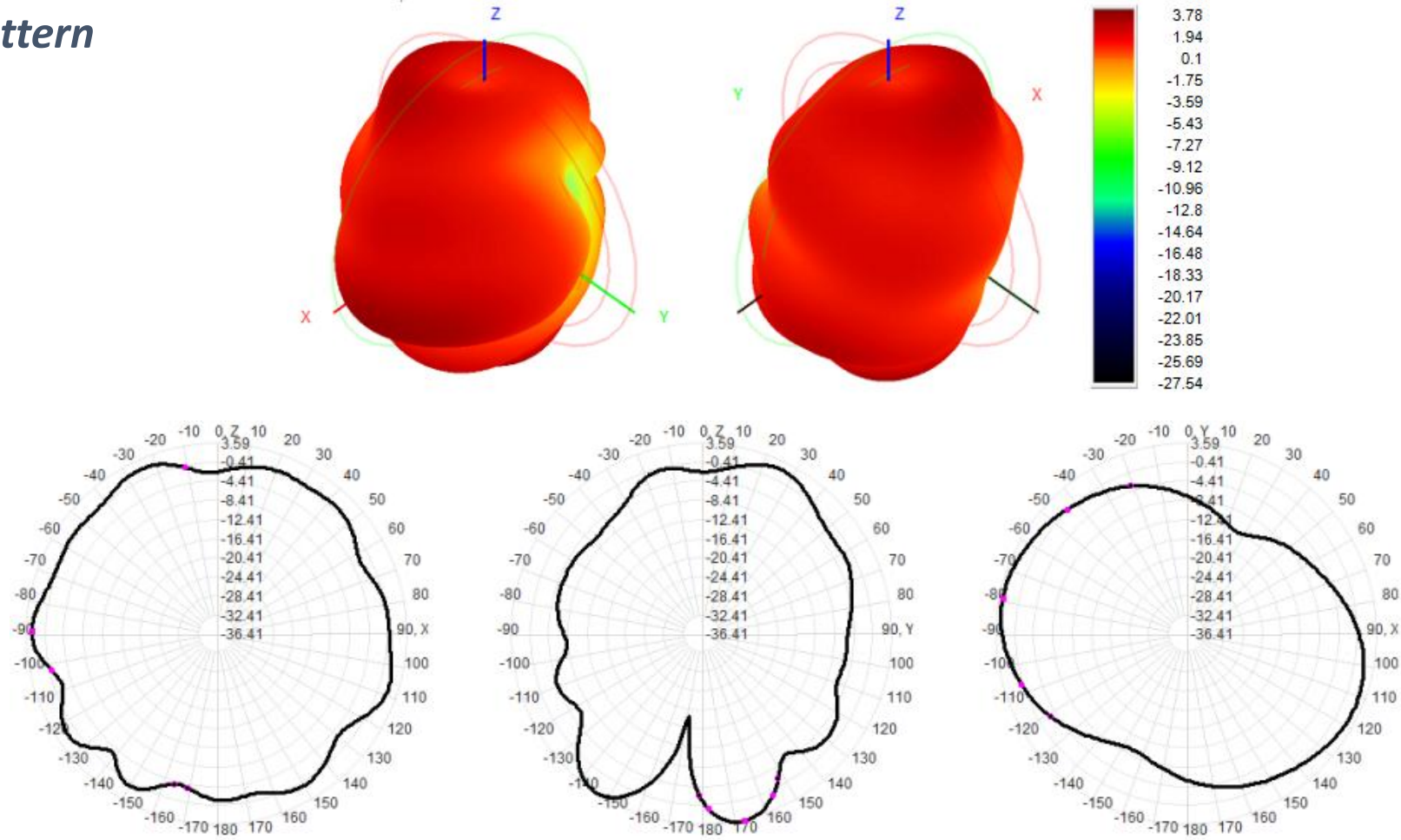
2450MHz



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.