



# 规格承认书

## SPECIFICATION FOR APPROVAL

|                |            |
|----------------|------------|
| 日期<br>Date     | 2025/03/28 |
| 编号<br>File No  | 25032803   |
| 版本<br>Revision | 1.0        |

客户  
CUSTOMER: Fanvil

客户料号  
CUSTOMER NO: J600

品名  
PART NAME: WIFI Antenna L=55mm

供方料号  
SUPPLIER NO: YJL01.106.078.301A

送样日期Date:

送样数量Q'TY:

| 客户确认CUSTOMER APPROVED BY |       |            |
|--------------------------|-------|------------|
| APPROVAL                 | CHIEF | SUPERVISOR |
|                          |       |            |

| 供方确认 SUPPLIER SIGNATURE                                                                             |       |            |
|-----------------------------------------------------------------------------------------------------|-------|------------|
| APPROVAL                                                                                            | CHECK | DESIGN     |
| <br>ChenGuoqiang | XieLi | ChenXingyi |

YJ-RD-F04-A

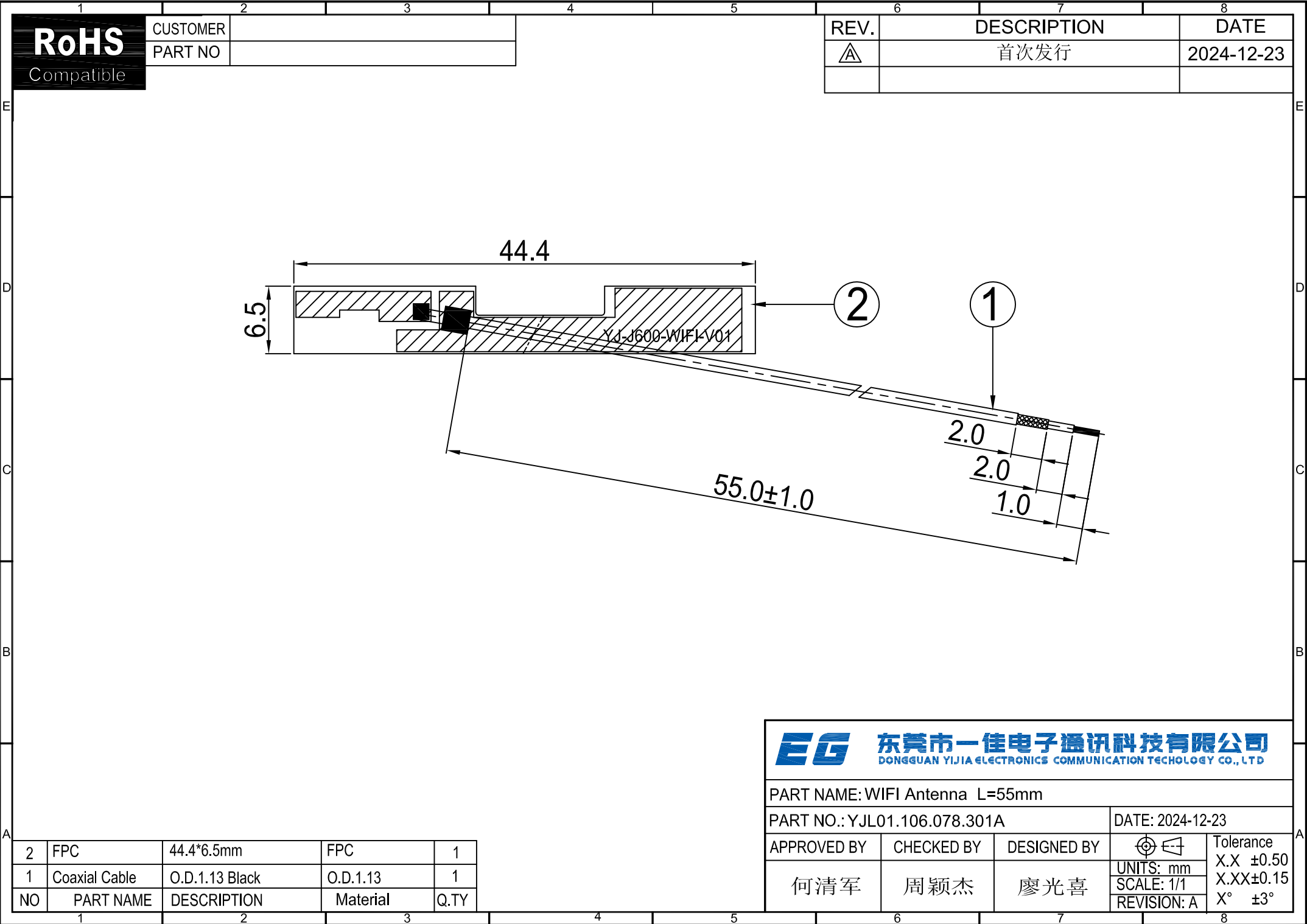




## 承认书项目表

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| 11 | N/A                          | N/A                     | N/A                |
| 12 | N/A                          | N/A                     | N/A                |
| 13 | -                            | -                       | -                  |







## 天线规格 Antenna Specification

| Electrical Properties   |                                            |
|-------------------------|--------------------------------------------|
| Frequency               | 2.4-2.5GHz<br>5.15-5.85GHz                 |
| Impedance               | 50 Ohm Nominal                             |
| V.S.W.R                 | 2.0 Max@2.4-2.5GHz<br>2.5 Max@5.15-5.85GHz |
| Gain                    | 5.9 dBi@2.4-2.5GHz<br>6.1 dBi@5.15-5.85GHz |
| Radiation               | Omni-directional                           |
| Polarization            | Linear                                     |
| Physical Properties     |                                            |
| Connector               | None                                       |
| Cable Type              | O.D.1.13mm                                 |
| Cable Length            | 55mm                                       |
| Cable Color             | Black                                      |
| Operating Temp.         | -40 ~ +85 °C                               |
| Storage Temp / Humidity | 25±5°C / <70%                              |

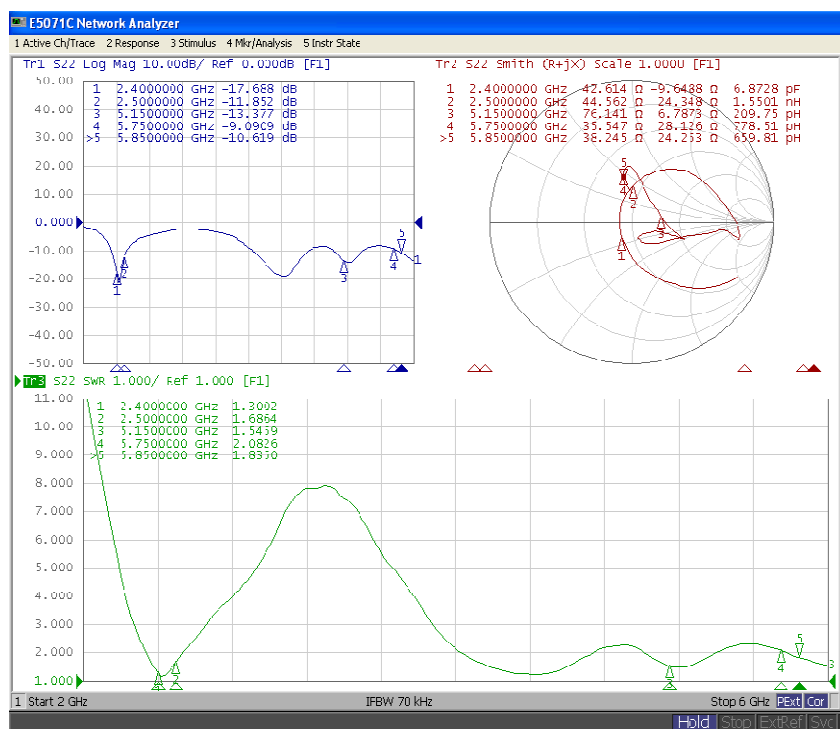




东莞市一佳电子通讯科技有限公司  
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

## Antenna Performance Test

*Agilent  
E5071C  
S  
Parameter  
Test //  
WiFi  
Antenna*



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Add: Yuanfu Industrial Zone, No. 59, Muyu Road, Shatou Community, Chang'an Town, Dongguan City



Passive Test For WiFi Antenna(2.4G)

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 58.2        | -2.4         | 4.7           |
| 2410          | 59.3        | -2.3         | 4.8           |
| 2420          | 58.9        | -2.3         | 4.8           |
| 2430          | 59.5        | -2.3         | 4.9           |
| 2440          | 59.8        | -2.2         | 4.9           |
| 2450          | 60.2        | -2.2         | 5.4           |
| 2460          | 60.7        | -2.2         | 5.2           |
| 2470          | 61.4        | -2.1         | 5.8           |
| 2480          | 61.2        | -2.1         | 5.6           |
| 2490          | 60.9        | -2.2         | 5.9           |
| 2500          | 61.3        | -2.1         | 5.7           |





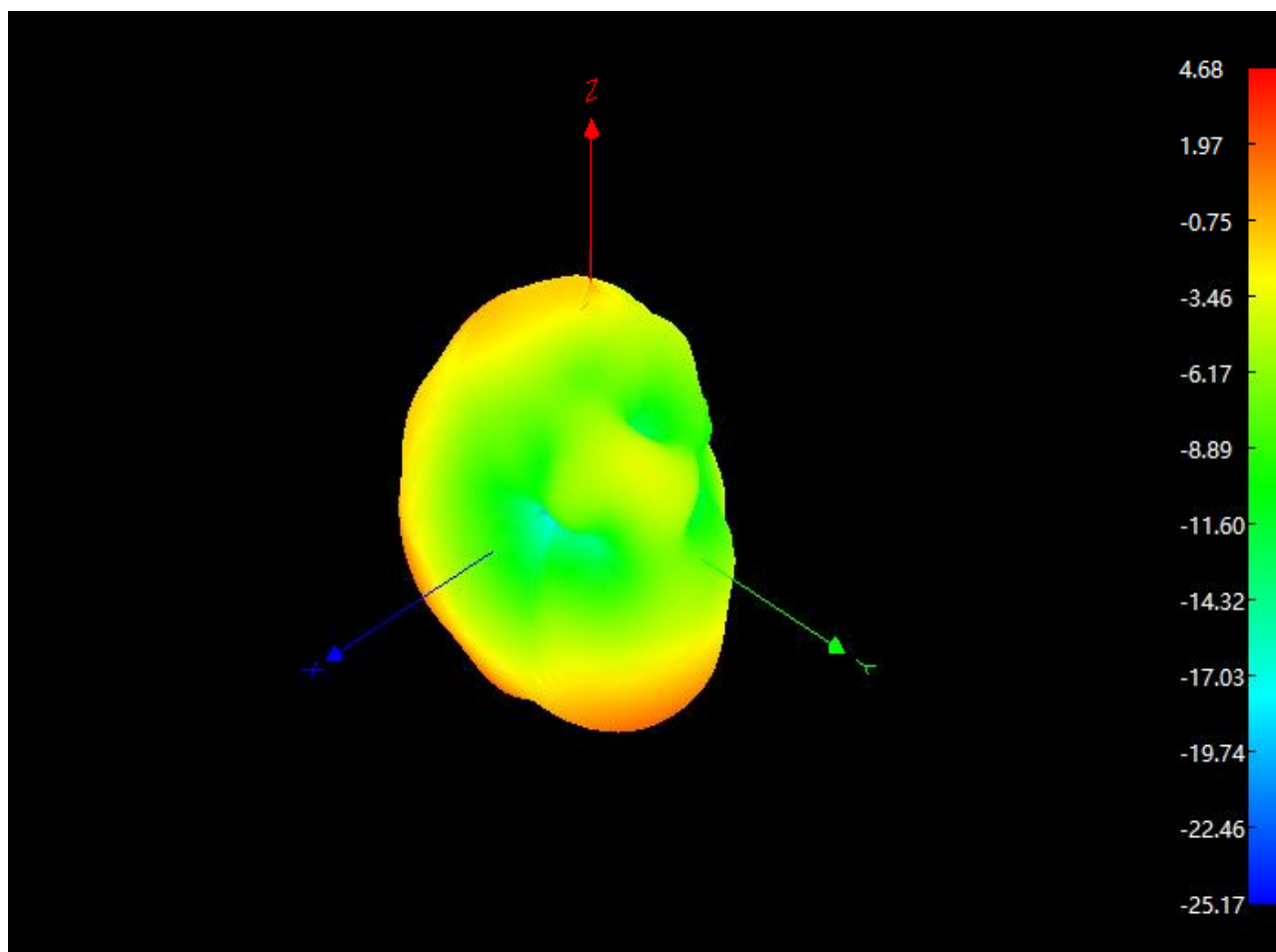
Passive Test For WiFi Antenna(5.8G)

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 5150          | 63.5        | -2.0         | 6.1           |
| 5200          | 61.9        | -2.1         | 6.1           |
| 5250          | 58.4        | -2.3         | 5.7           |
| 5300          | 59.0        | -2.3         | 5.4           |
| 5350          | 59.8        | -2.2         | 5.1           |
| 5400          | 61.2        | -2.1         | 5.2           |
| 5450          | 58.1        | -2.4         | 4.5           |
| 5500          | 58.1        | -2.4         | 3.9           |
| 5550          | 60.2        | -2.2         | 4.1           |
| 5600          | 55.1        | -2.6         | 3.2           |
| 5650          | 55.4        | -2.6         | 2.8           |
| 5700          | 56.0        | -2.5         | 2.9           |
| 5750          | 55.3        | -2.6         | 2.8           |
| 5800          | 55.2        | -2.6         | 2.1           |
| 5850          | 56.7        | -2.5         | 2.4           |



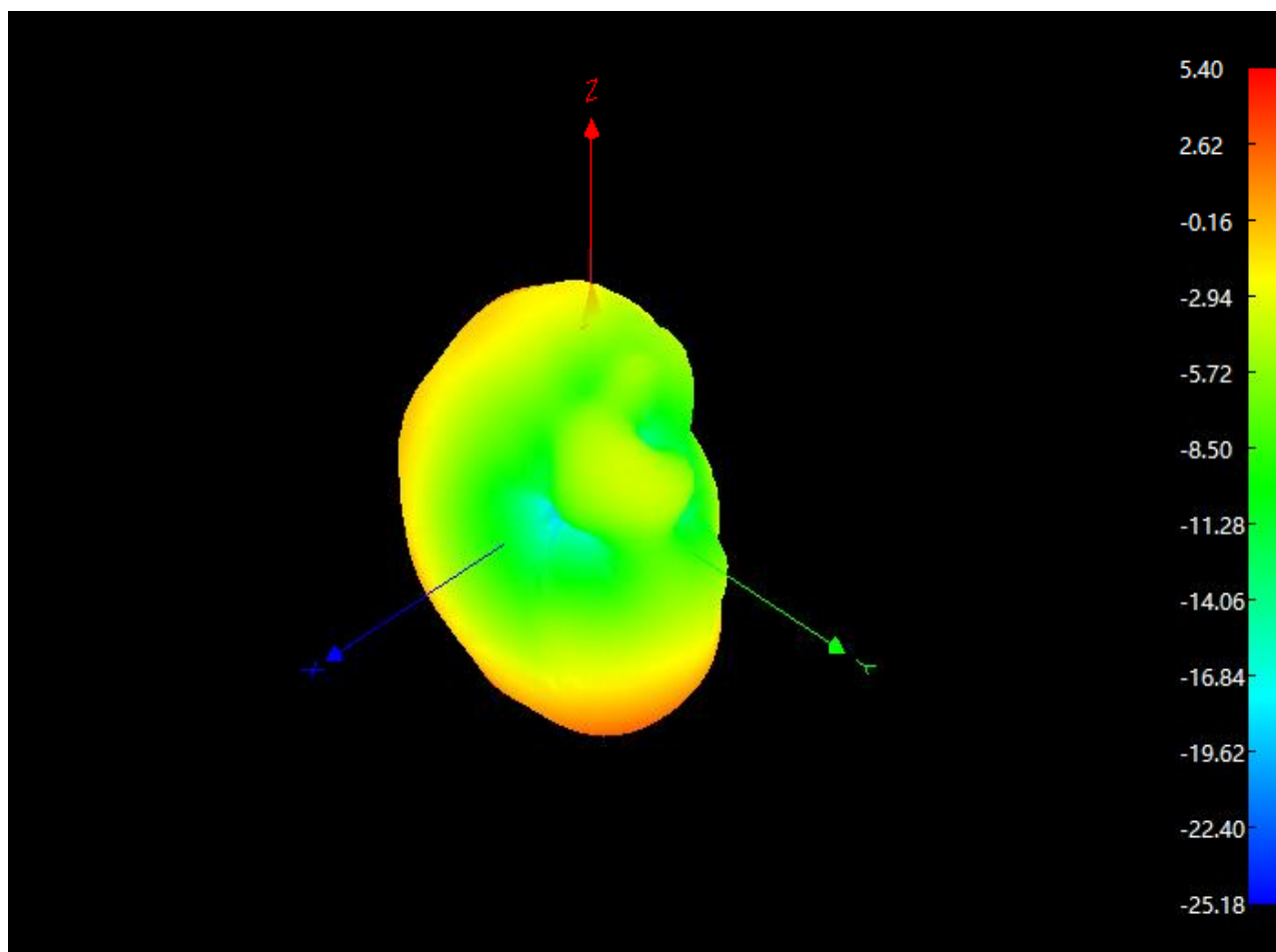


## Radiation Pattern For WiFi Antenna (2400MHz)



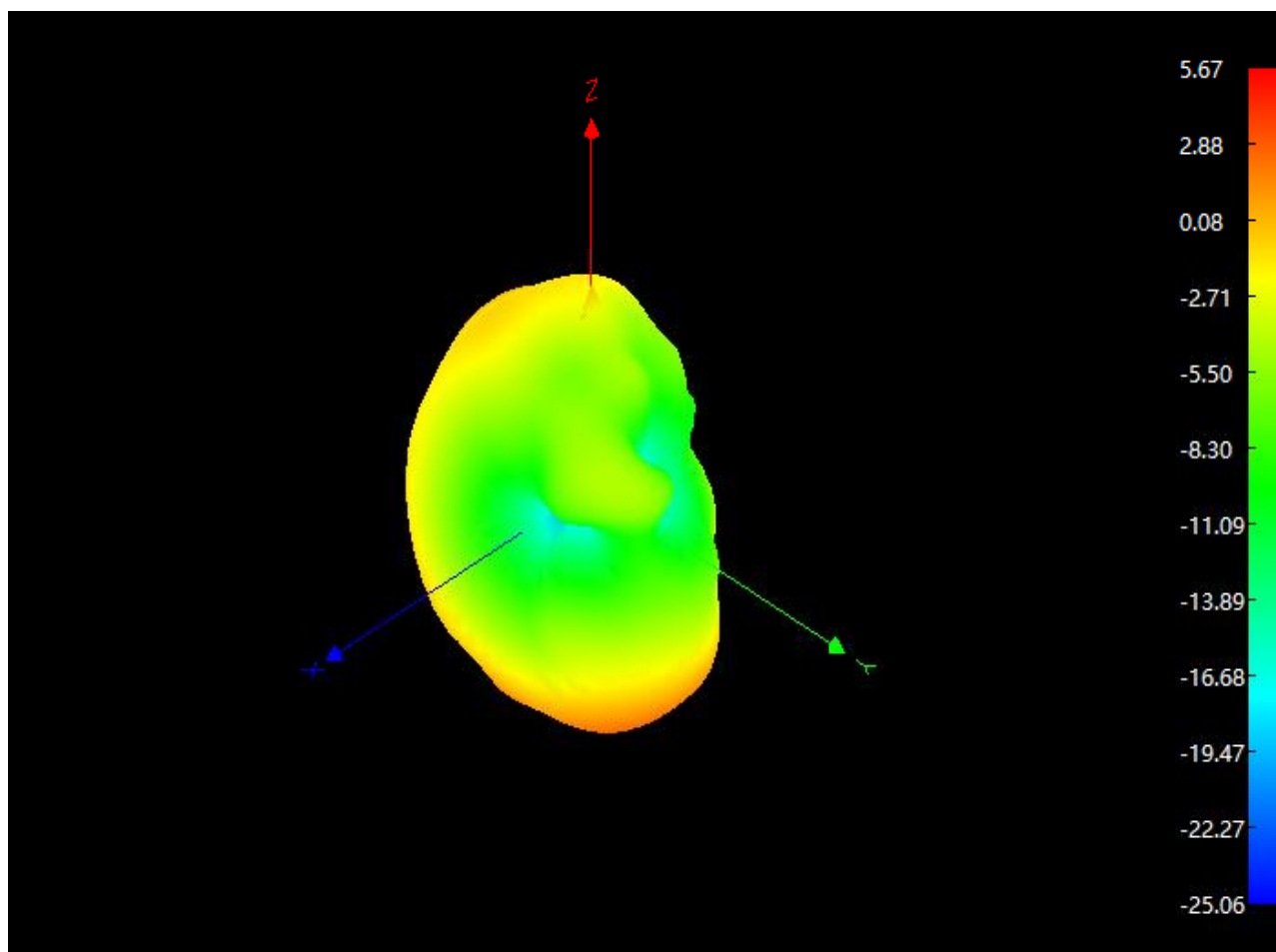


## Radiation Pattern For WiFi Antenna (2450MHz)



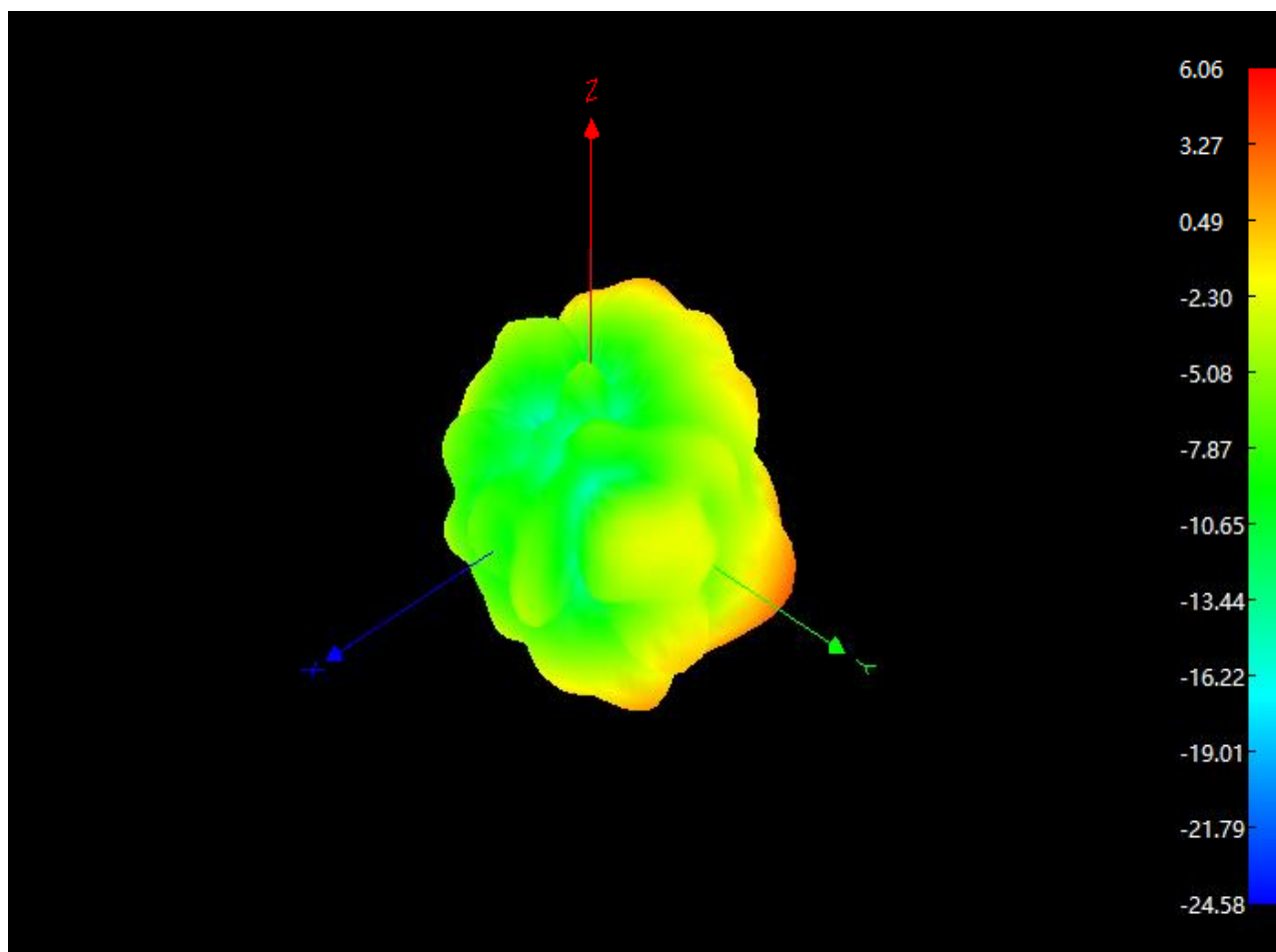


## Radiation Pattern For WiFi Antenna (2500MHz)



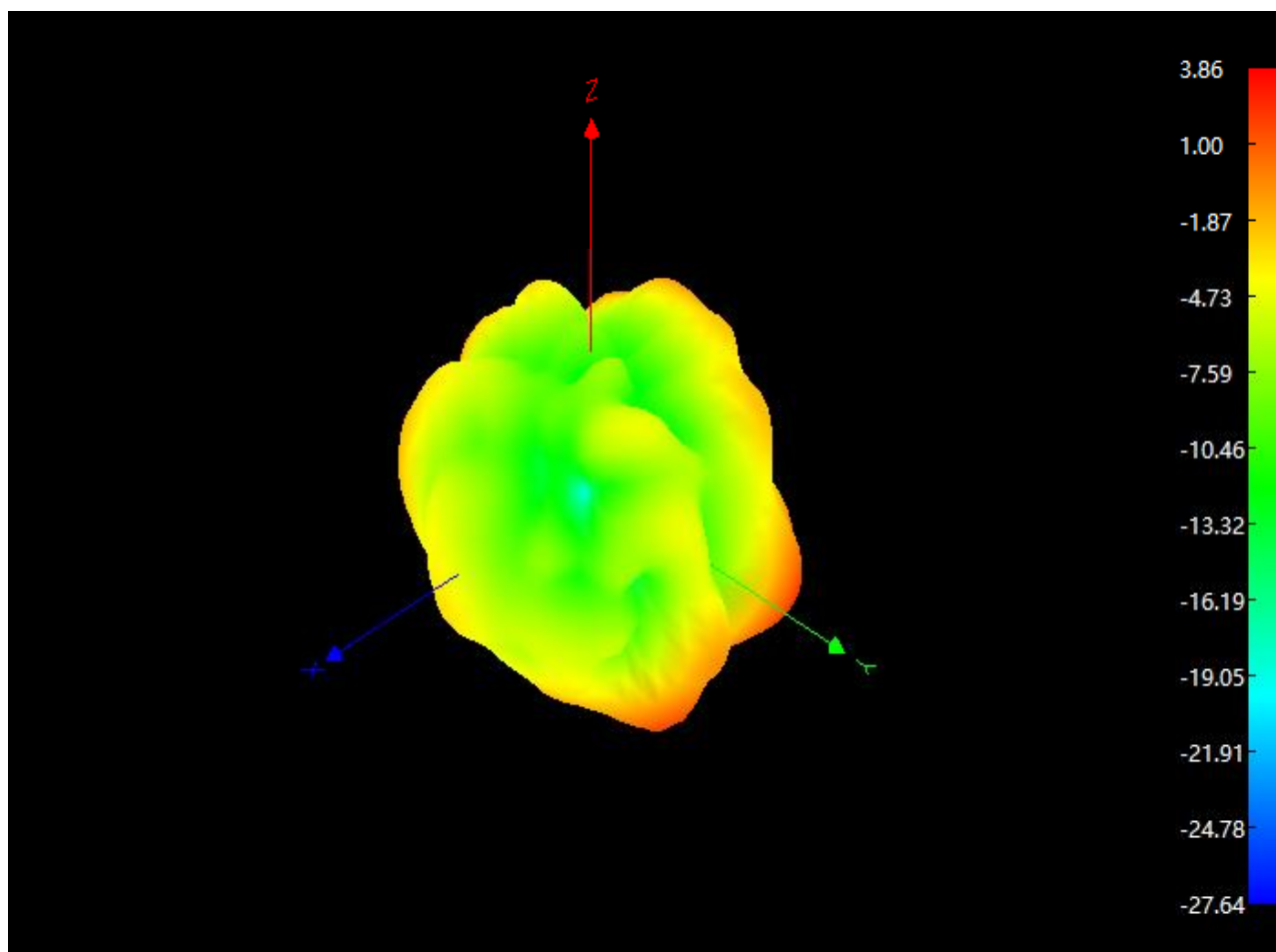


## Radiation Pattern For WiFi Antenna (5150MHz)



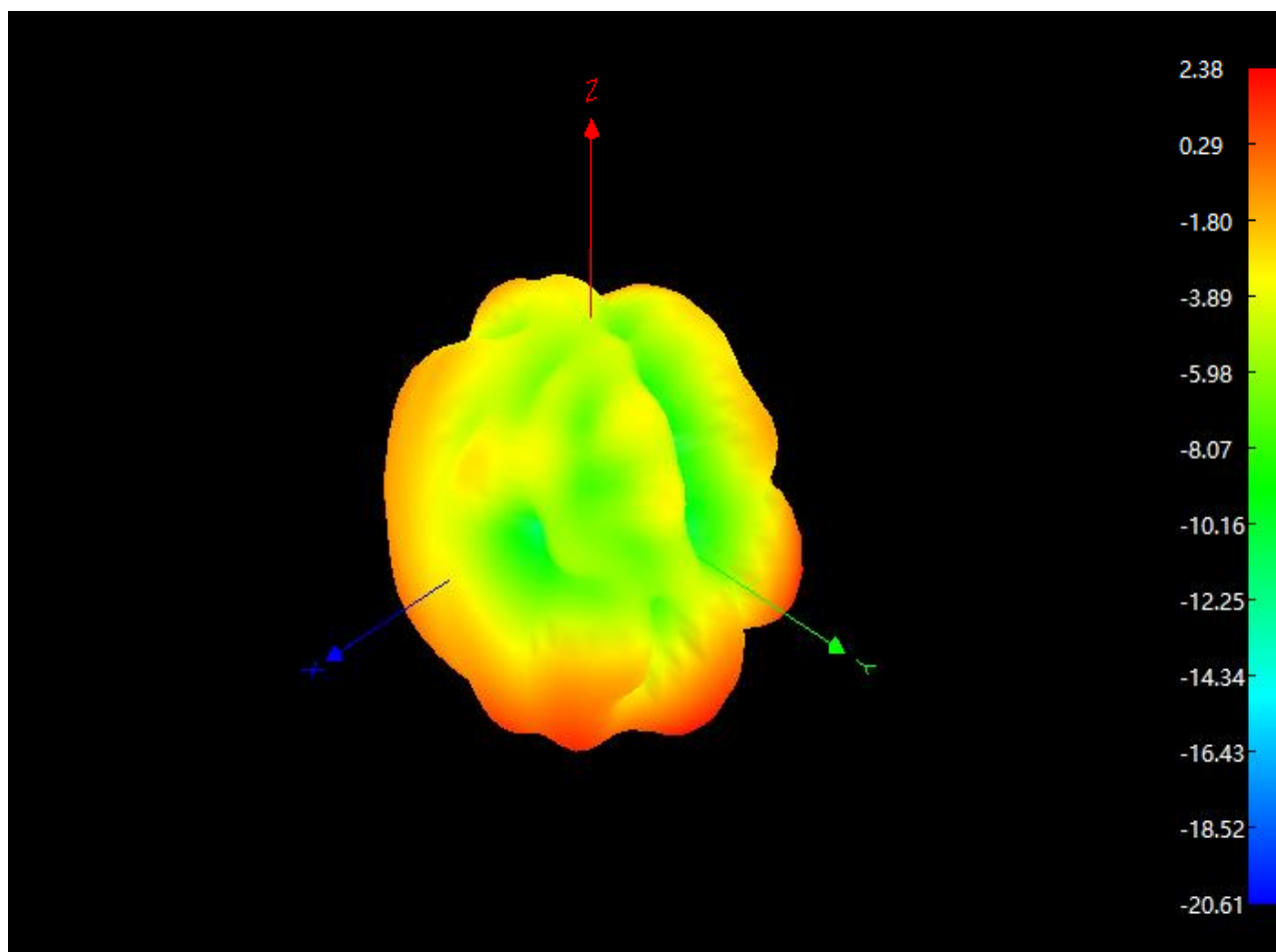


## Radiation Pattern For WiFi Antenna (5500MHz)





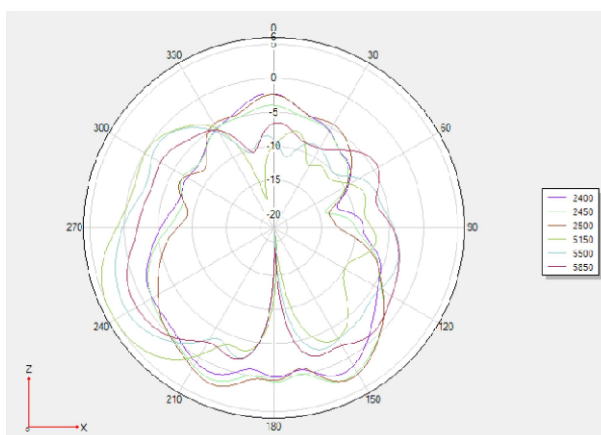
## Radiation Pattern For WiFi Antenna (5850MHz)



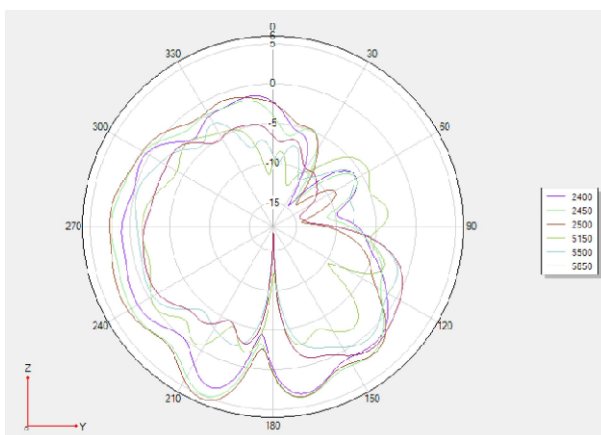


## Radiation Pattern For WiFi Antenna

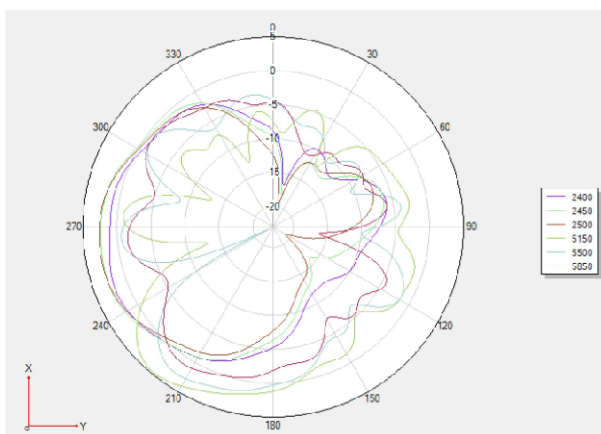
**Phi 0°**



**Phi 90°**



**Theta 90°**





| Active Test For WiFi Antenna |         |           |      |           |       |
|------------------------------|---------|-----------|------|-----------|-------|
| Band                         | Channel | Data Rate | TRP  | Data Rate | TIS   |
| WIFI 2.4G<br>802.11b         | 1       | 11Mbps    | 15.2 | 11Mbps    | -85.4 |
|                              | 6       |           | 15.8 |           | -85.6 |
|                              | 11      |           | 15.6 |           | -85.1 |
| WIFI 5G<br>802.11a           | 36      | 6Mbps     | 14.2 | 54Mbps    | -73.2 |
|                              | 100     |           | 14.3 |           | -73.4 |
|                              | 165     |           | 14.0 |           | -73.1 |

