



# 规格承认书

## SPECIFICATION FOR APPROVAL

|                |            |
|----------------|------------|
| 日期<br>Date     | 2024/10/30 |
| 编号<br>File No  | 24103005   |
| 版本<br>Revision | 1.0        |

客户  
CUSTOMER: FJ Dynamics

客户料号  
CUSTOMER NO: YTX-TX-003070

品名  
PART NAME: WIFI 2 Antenna L=46mm MHF

供方料号  
SUPPLIER NO: YJF01.085.029.305A

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



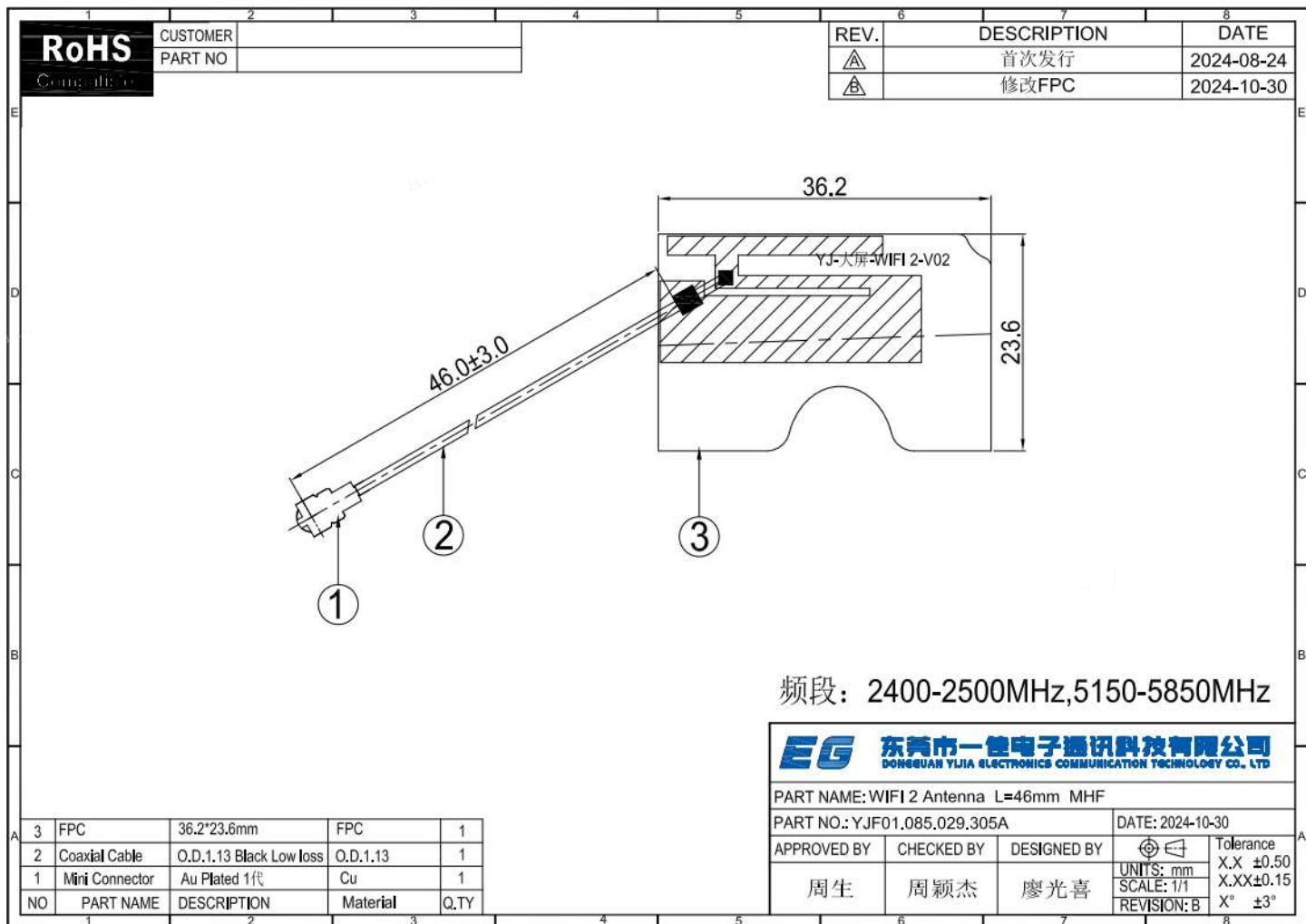


# 承认书项目表

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天线规格  
Antenna Specification

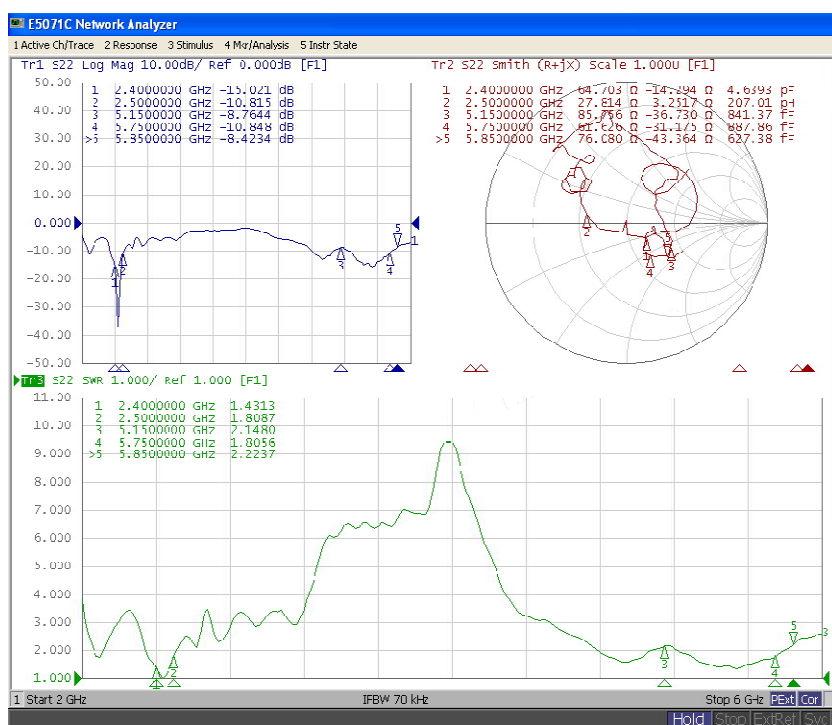
| Electrical Properties   |                                            |
|-------------------------|--------------------------------------------|
| Frequency               | 2.4-2.5GHz<br>5.15-5.85GHz                 |
| Impedance               | 50 Ohm Nominal                             |
| V.S.W.R                 | 2.0 Max@2.4-2.5GHz<br>2.5 Max@5.15-5.85GHz |
| Gain                    | 6.3 dBi@2.4-2.5GHz<br>5.7 dBi@5.15-5.85GHz |
| Radiation               | Omni-directional                           |
| Polarization            | Linear                                     |
| Physical Properties     |                                            |
| Connector               | 1代IPEX                                     |
| Cable Type              | O.D.1.13mm低损耗                              |
| Cable Length            | 46mm                                       |
| 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

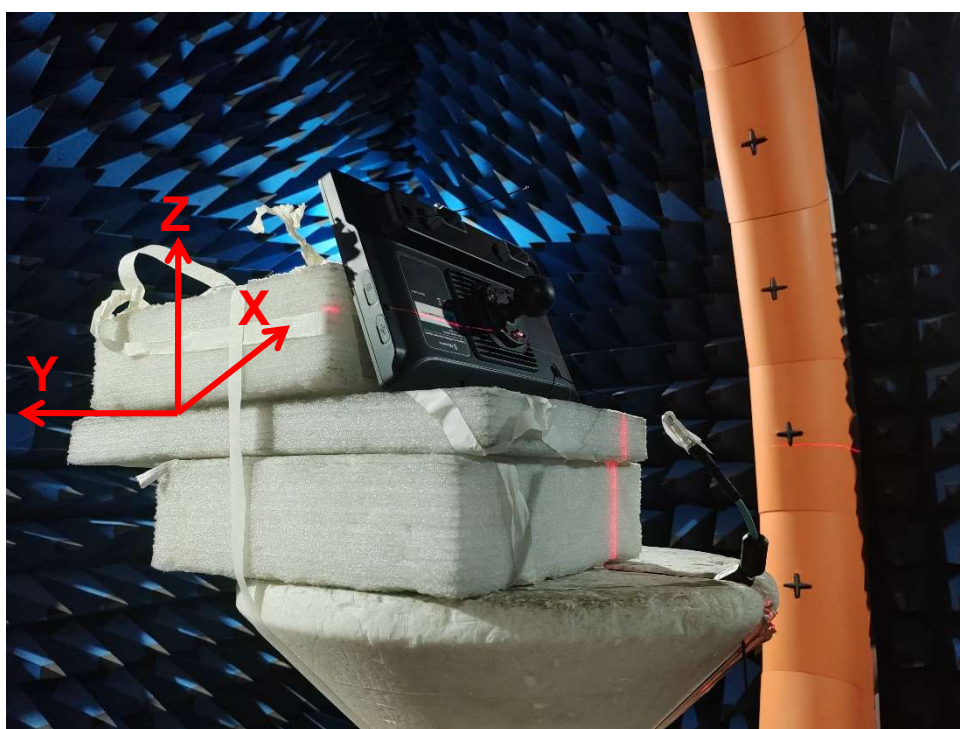
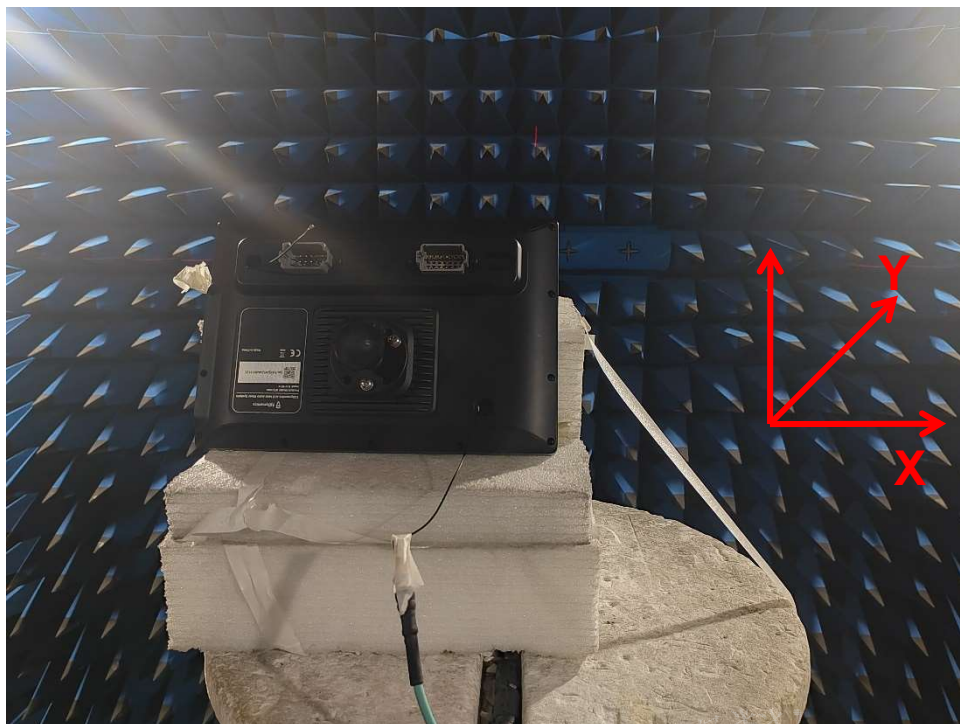
# Agilent E5071C S Parameter Test // WiFi2 Antenna



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No.59 Muyu Road, Shatou Community, Chang 'an Town, Dongguan City



## *Antenna Passive Test*





| Passive Test For WiFi2 Antenna(2.4G) |             |              |               |
|--------------------------------------|-------------|--------------|---------------|
| Freq<br>(MHz)                        | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
| 2400                                 | 45.8        | -3.4         | 5.5           |
| 2410                                 | 46.9        | -3.3         | 5.8           |
| 2420                                 | 46.6        | -3.3         | 5.9           |
| 2430                                 | 46.2        | -3.4         | 6.3           |
| 2440                                 | 44.9        | -3.5         | 6.2           |
| 2450                                 | 44.4        | -3.5         | 6.0           |
| 2460                                 | 40.9        | -3.9         | 5.2           |
| 2470                                 | 41.1        | -3.9         | 5.0           |
| 2480                                 | 40.2        | -4.0         | 4.9           |
| 2490                                 | 41.8        | -3.8         | 5.0           |
| 2500                                 | 40.6        | -3.9         | 4.8           |





Passive Test For WiFi2 Antenna(5.8G)

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 5150          | 42.8        | -3.7         | 3.6           |
| 5170          | 43.5        | -3.6         | 4.0           |
| 5190          | 41.6        | -3.8         | 4.1           |
| 5210          | 38.3        | -4.2         | 3.6           |
| 5230          | 37.1        | -4.3         | 3.5           |
| 5250          | 35.8        | -4.5         | 3.3           |
| 5270          | 35.9        | -4.5         | 3.2           |
| 5290          | 35.3        | -4.5         | 3.0           |
| 5310          | 33.7        | -4.7         | 2.8           |
| 5330          | 31.9        | -5.0         | 2.4           |
| 5350          | 31.6        | -5.0         | 2.3           |
| 5370          | 34.3        | -4.7         | 2.6           |
| 5390          | 36.7        | -4.4         | 3.0           |
| 5410          | 40.4        | -3.9         | 3.3           |
| 5430          | 41.1        | -3.9         | 3.6           |
| 5450          | 43.6        | -3.6         | 4.0           |
| 5470          | 42.3        | -3.7         | 3.9           |
| 5490          | 43.5        | -3.6         | 4.1           |



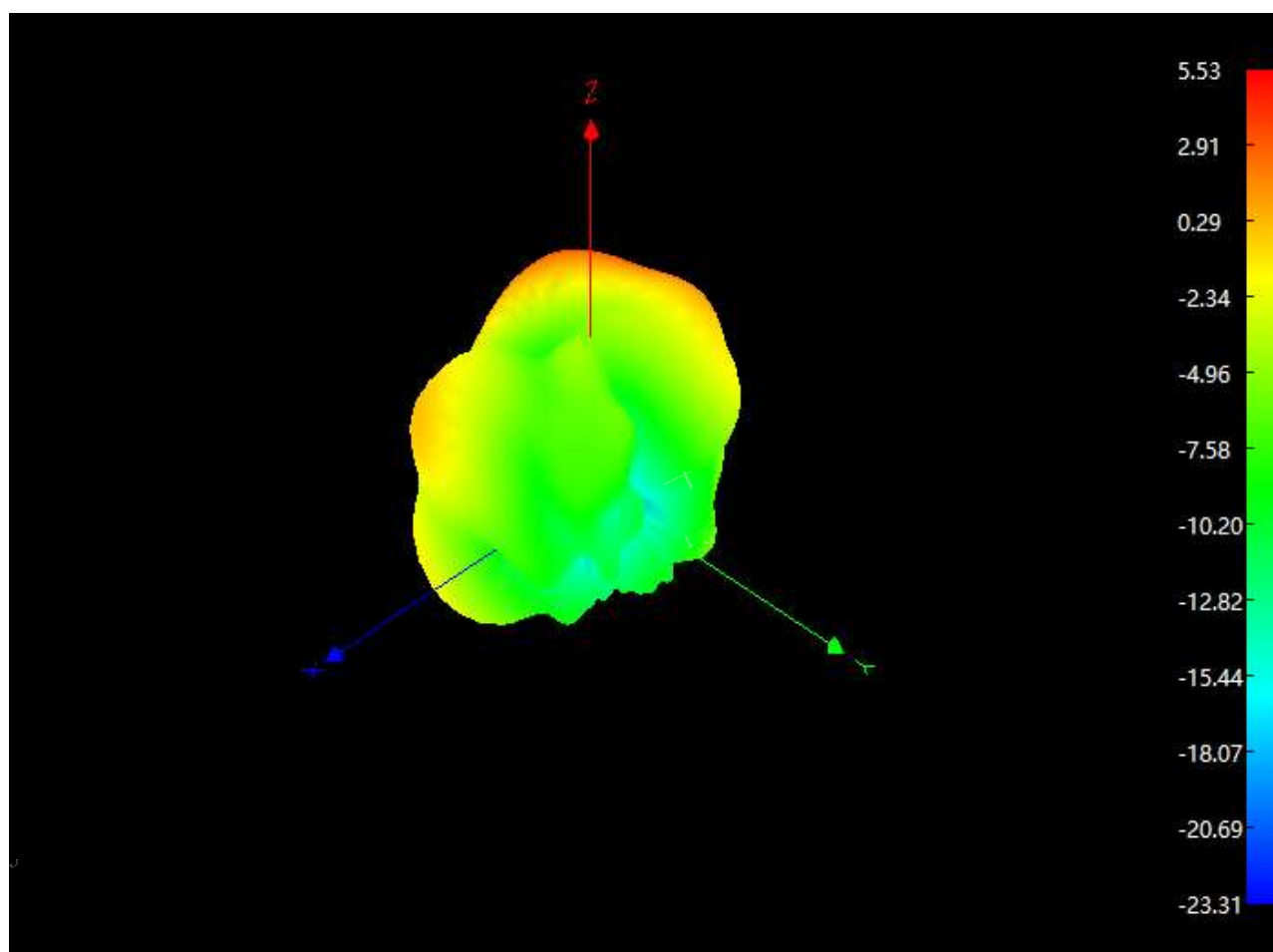


| Passive Test For WiFi2 Antenna(5.8G) |             |              |               |
|--------------------------------------|-------------|--------------|---------------|
| Freq<br>(MHz)                        | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
| 5510                                 | 42.6        | -3.7         | 4.1           |
| 5530                                 | 47.5        | -3.2         | 4.7           |
| 5550                                 | 51.4        | -2.9         | 5.1           |
| 5570                                 | 55.3        | -2.6         | 5.6           |
| 5590                                 | 55.3        | -2.6         | 5.7           |
| 5610                                 | 52.0        | -2.8         | 5.6           |
| 5630                                 | 50.0        | -3.0         | 5.6           |
| 5650                                 | 43.0        | -3.7         | 5.1           |
| 5670                                 | 43.0        | -3.7         | 5.0           |
| 5690                                 | 39.2        | -4.1         | 4.5           |
| 5710                                 | 40.4        | -3.9         | 4.5           |
| 5730                                 | 36.7        | -4.4         | 3.9           |
| 5750                                 | 36.5        | -4.4         | 3.7           |
| 5770                                 | 32.8        | -4.8         | 3.3           |
| 5790                                 | 33.6        | -4.7         | 3.5           |
| 5810                                 | 32.1        | -4.9         | 3.5           |
| 5830                                 | 37.0        | -4.3         | 4.3           |
| 5850                                 | 37.3        | -4.3         | 4.2           |



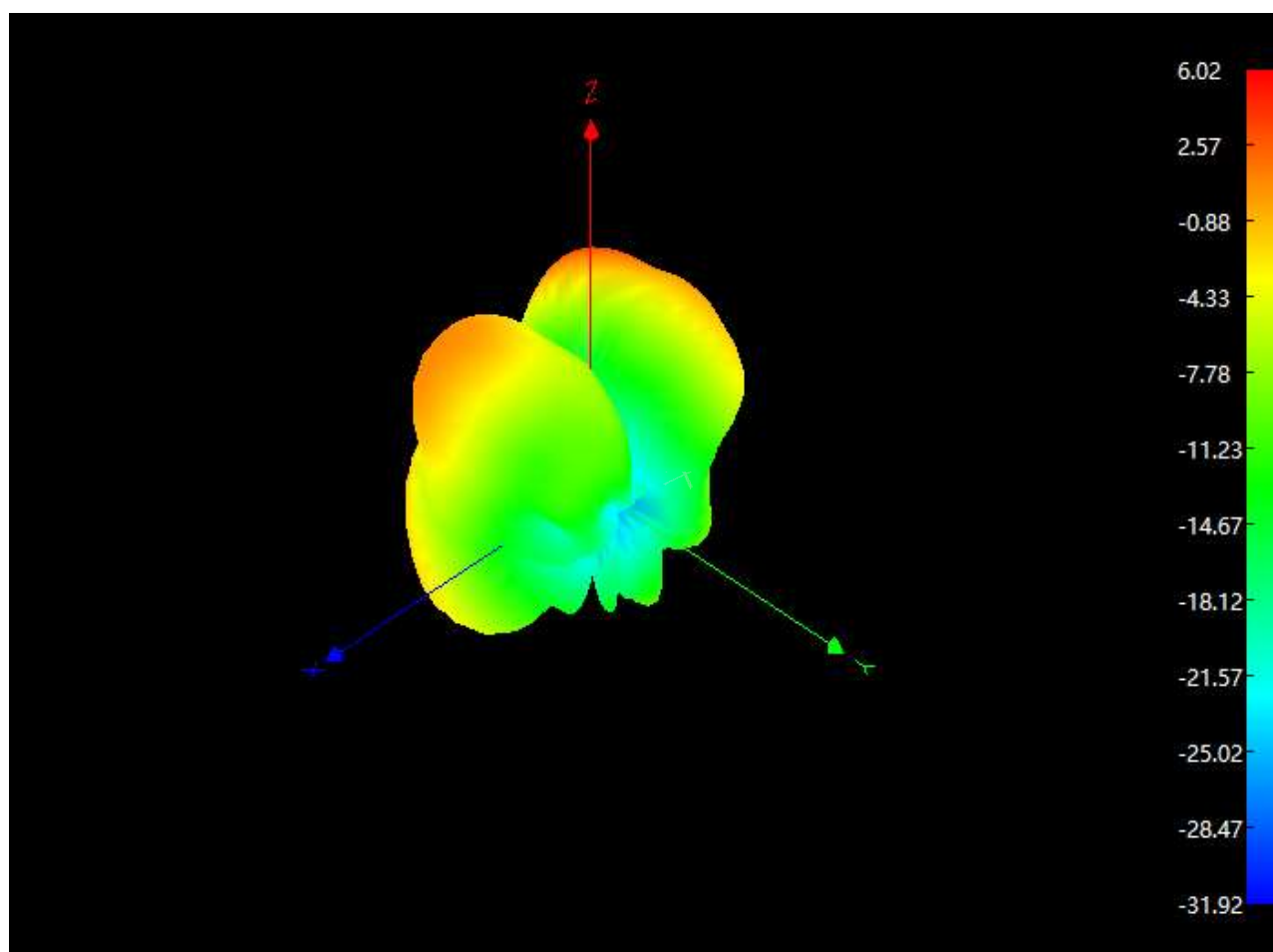


## Radiation Pattern For WiFi2 Antenna (2400MHz)



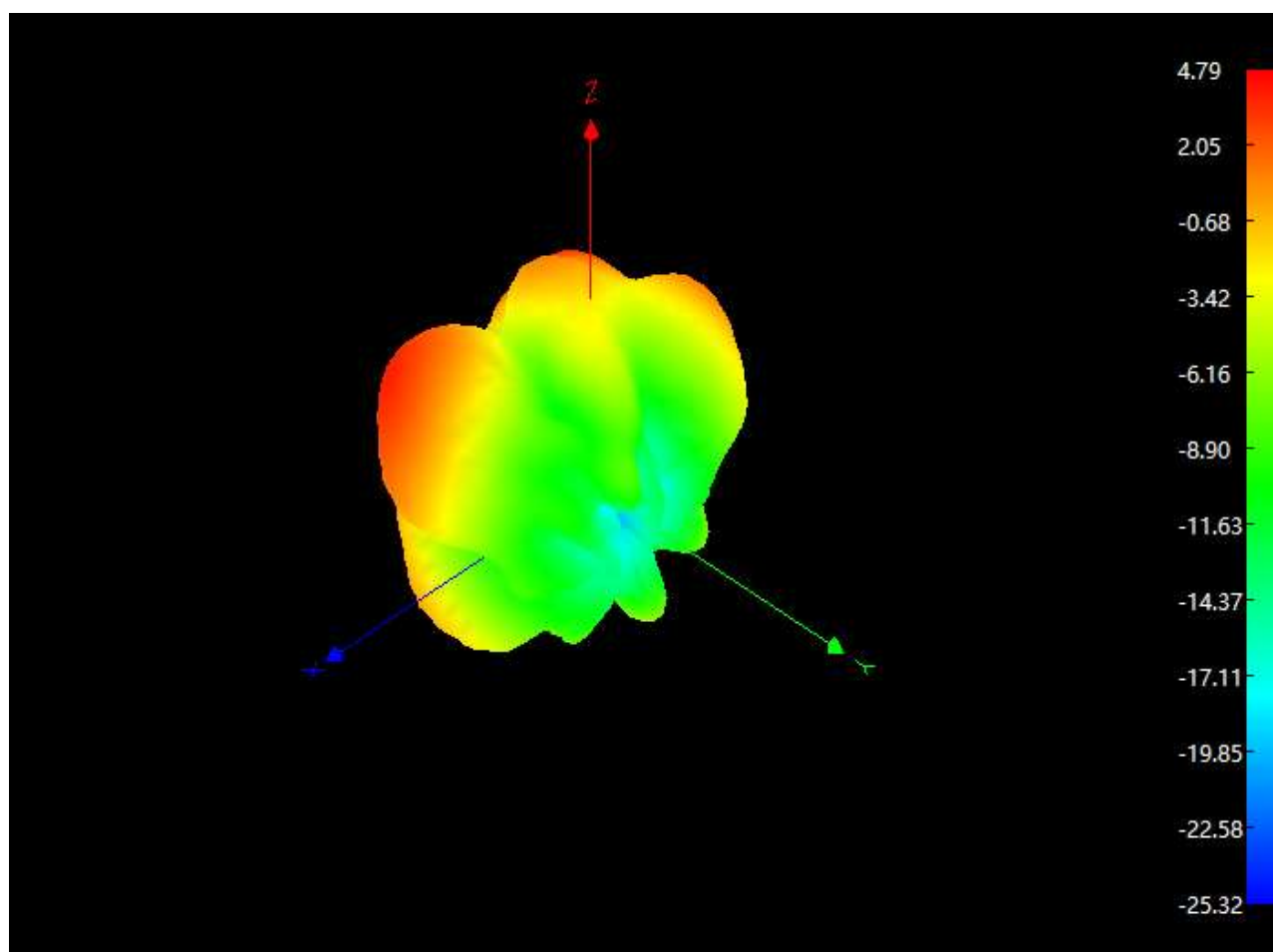


## Radiation Pattern For WiFi2 Antenna (2450MHz)



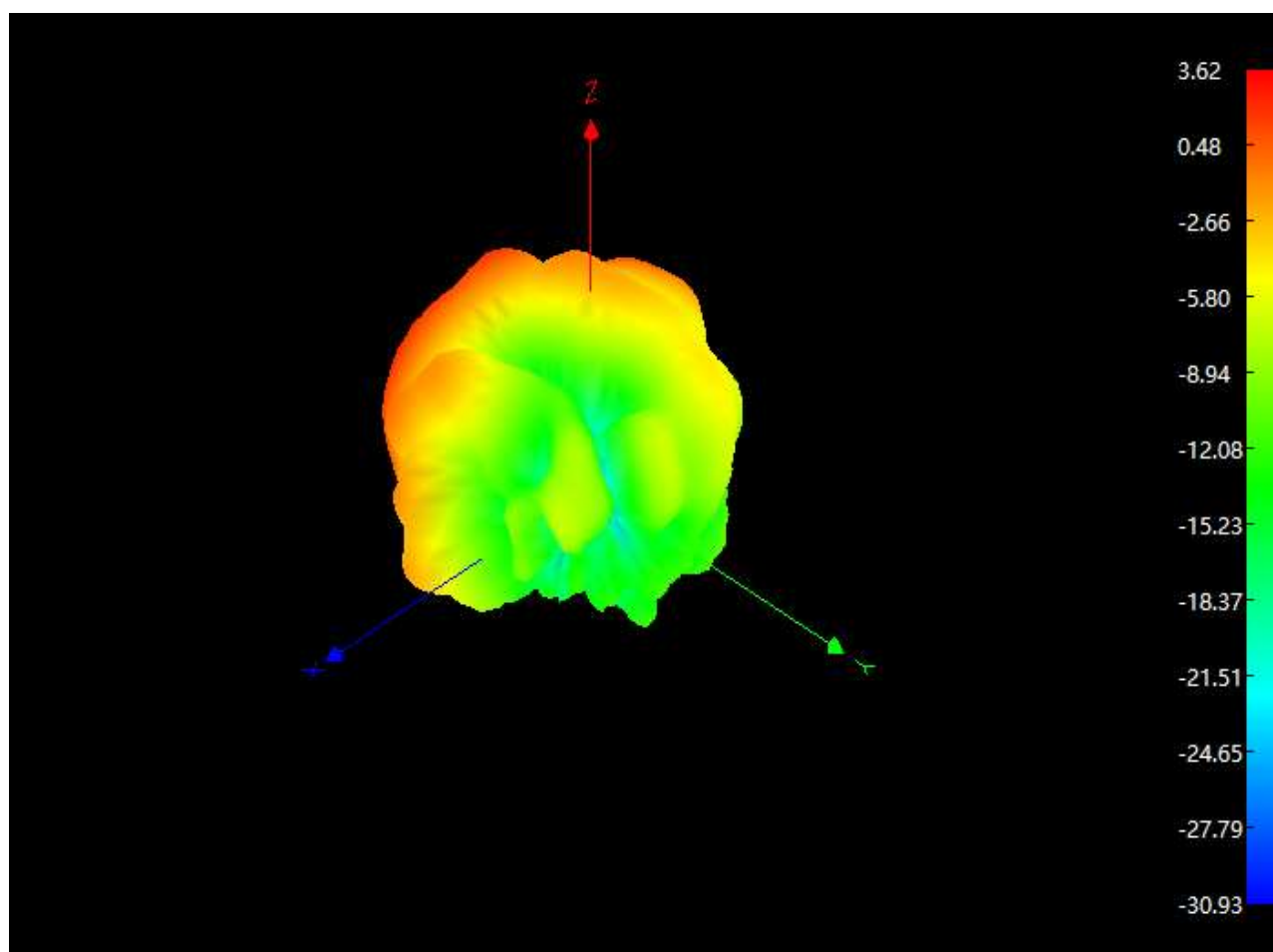


## Radiation Pattern For WiFi2 Antenna (2500MHz)



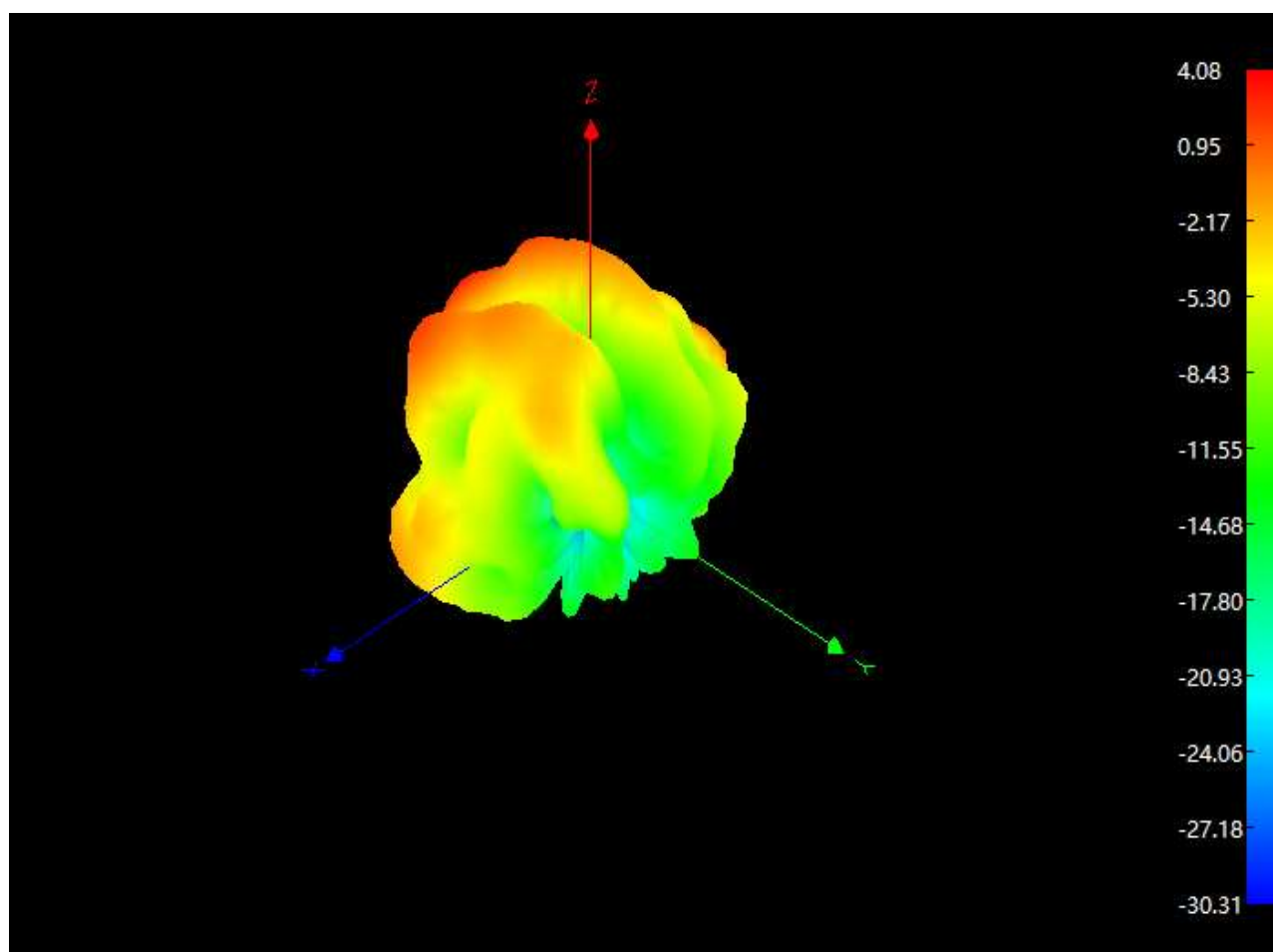


## Radiation Pattern For WiFi2 Antenna (5150MHz)



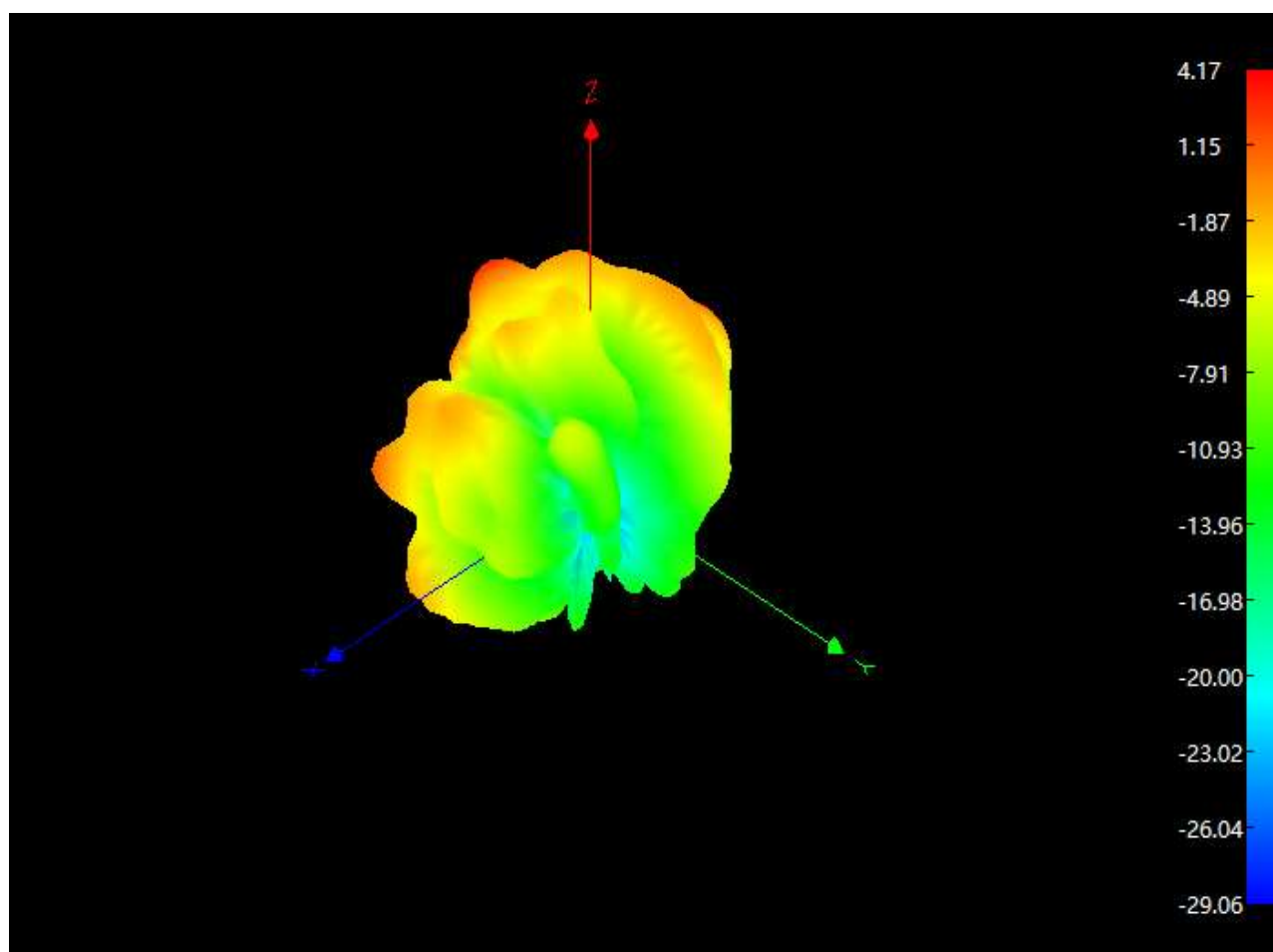


## Radiation Pattern For WiFi2 Antenna (5510MHz)





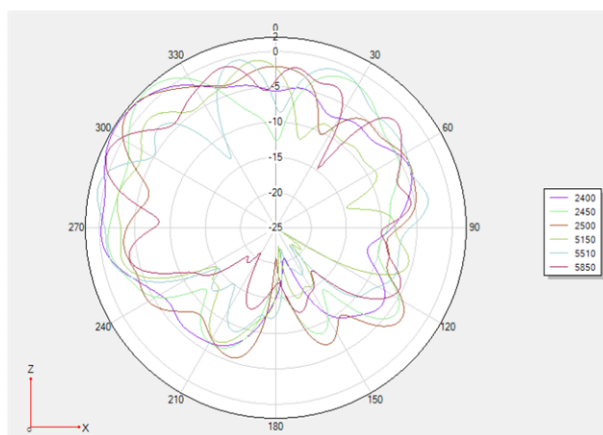
## Radiation Pattern For WiFi2 Antenna (5850MHz)



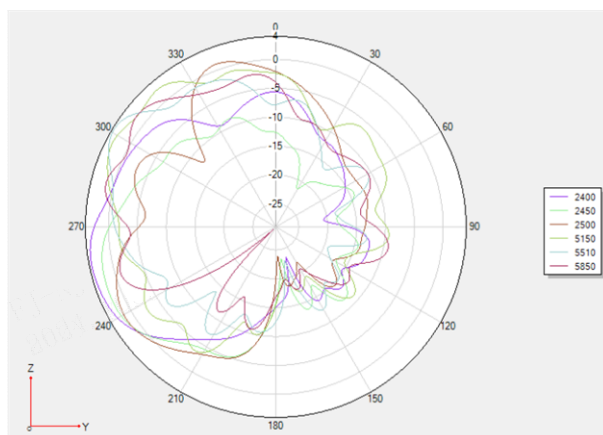


## Radiation Pattern For WiFi2 Antenna

**Phi 0°**



**Phi 90°**



**Theta 90°**

