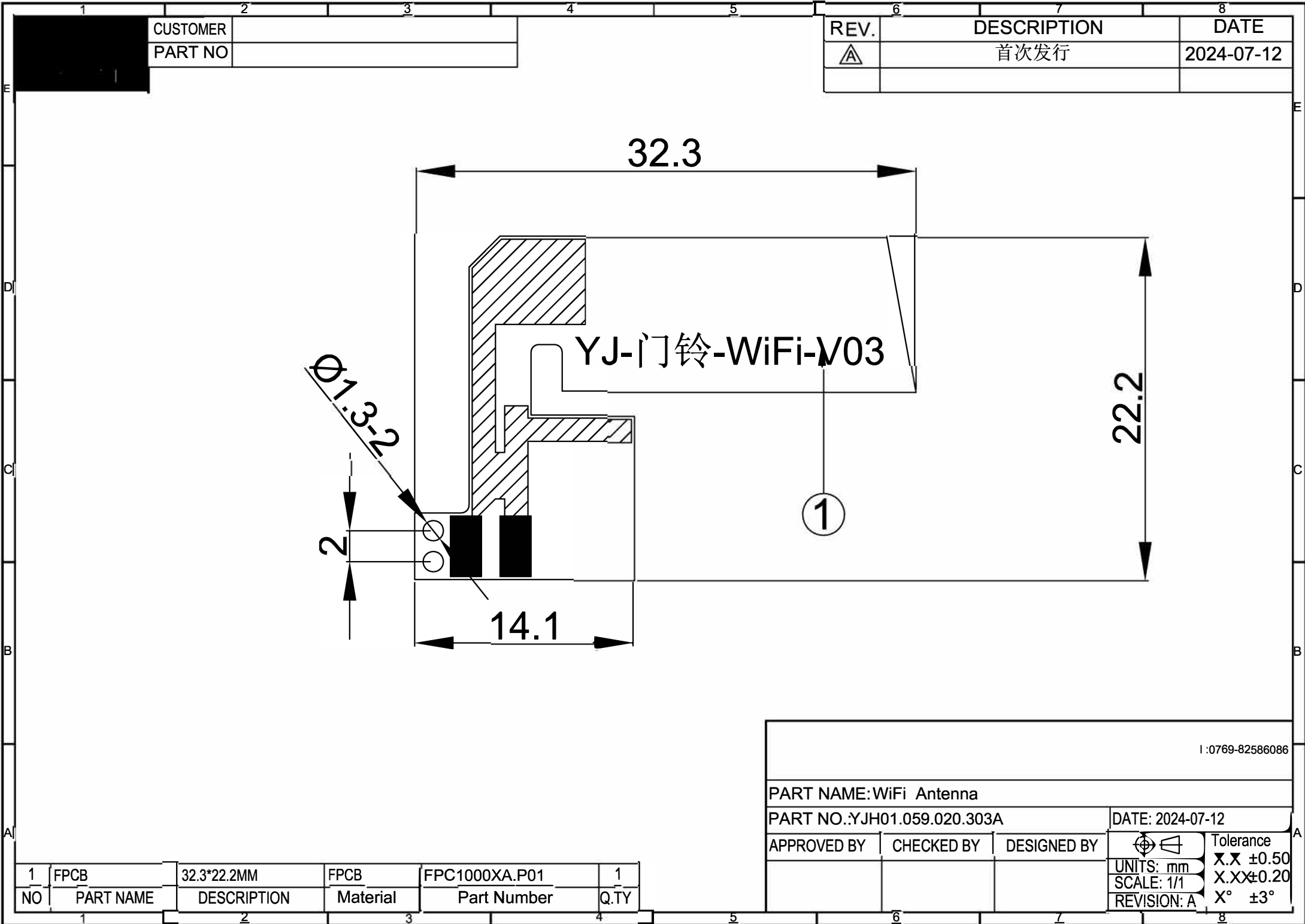




CUSTOMER

PART NO

REV.

△

DESCRIPTION

首次发行

DATE

2024-07-12

32.3

22.2

Ø1.3-2

2

14.1

YJ-门铃-WiFi-V03

1

I :0769-82586086

PART NAME:WiFi Antenna

PART NO.:YJH01.059.020.303A

DATE: 2024-07-12

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.20

REVISION: A

X° ±3°

|    |           |             |          |               |      |
|----|-----------|-------------|----------|---------------|------|
| 1  | FPCB      | 32.3*22.2MM | FPCB     | FPC1000XA.P01 | 1    |
| NO | PART NAME | DESCRIPTION | Material | Part Number   | Q.TY |

# 天线规格

## Antenna Specification

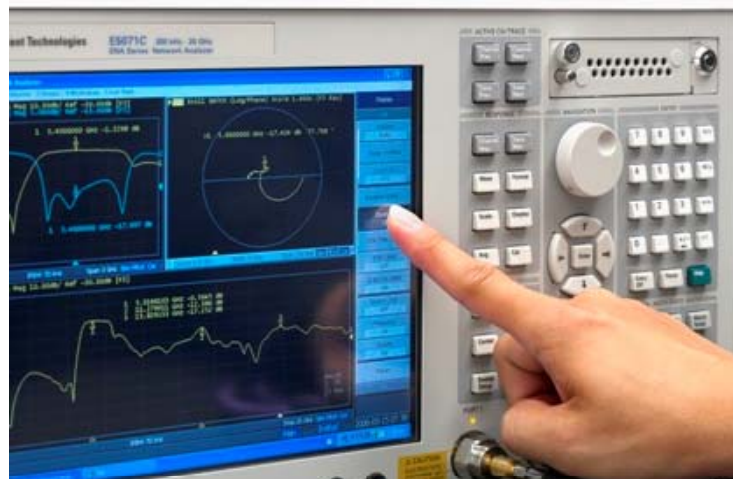
### Electrical Properties

|              |                                            |
|--------------|--------------------------------------------|
| 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>7.0 Max@5.15-5.85GHz |
| Gain         | 3.9 dBi@2.4-2.5GHz<br>0.8 dBi@5.15-5.85GHz |
| Radiation    | Omni-directional                           |
| Polarization | Linear                                     |

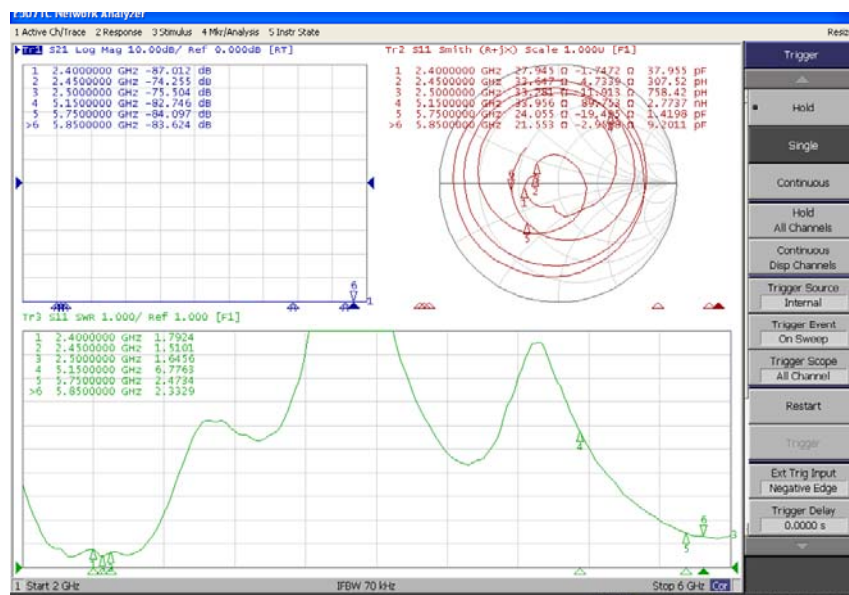
### Physical Properties

|                         |                    |
|-------------------------|--------------------|
| Connector               | None               |
| Cable Type              | None               |
| Cable Length            | None               |
| Cable Color             | None               |
| Operating Temp.         | -40 ~ +85 °C       |
| Storage Temp / Humidity | -20 ~ +70°C / <70% |

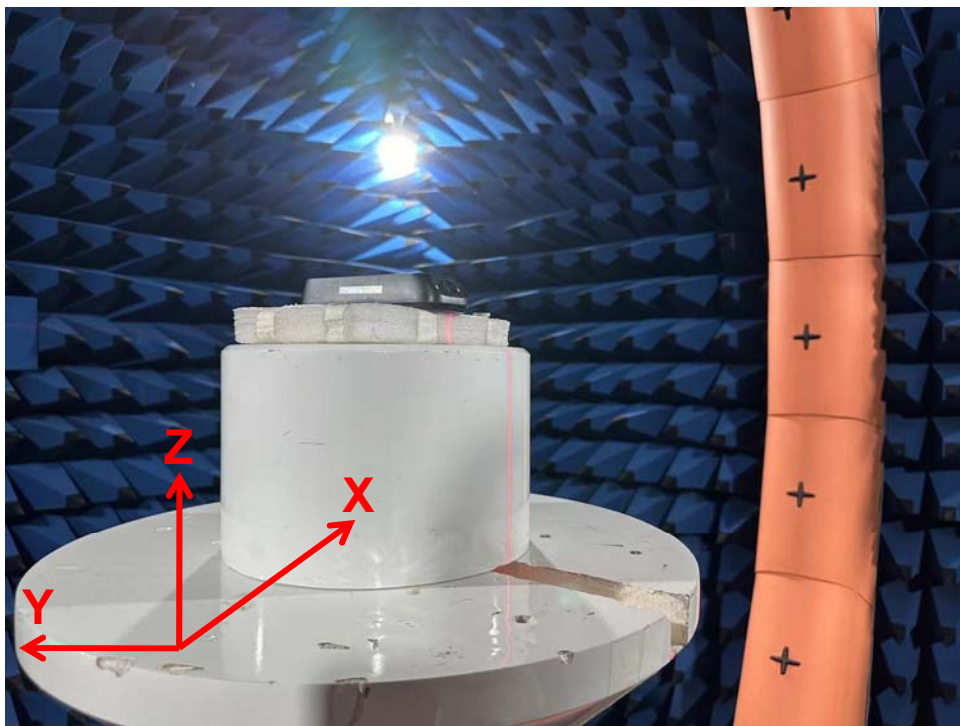
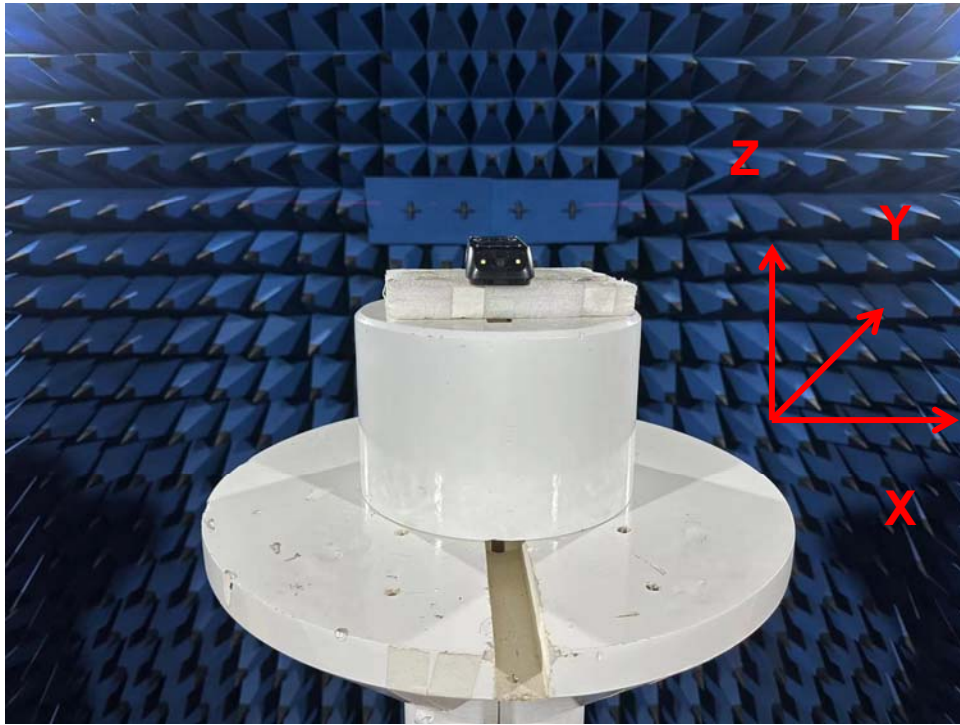
# Agilent E5071B



## S11 Parameter Test // WIFI Antenna



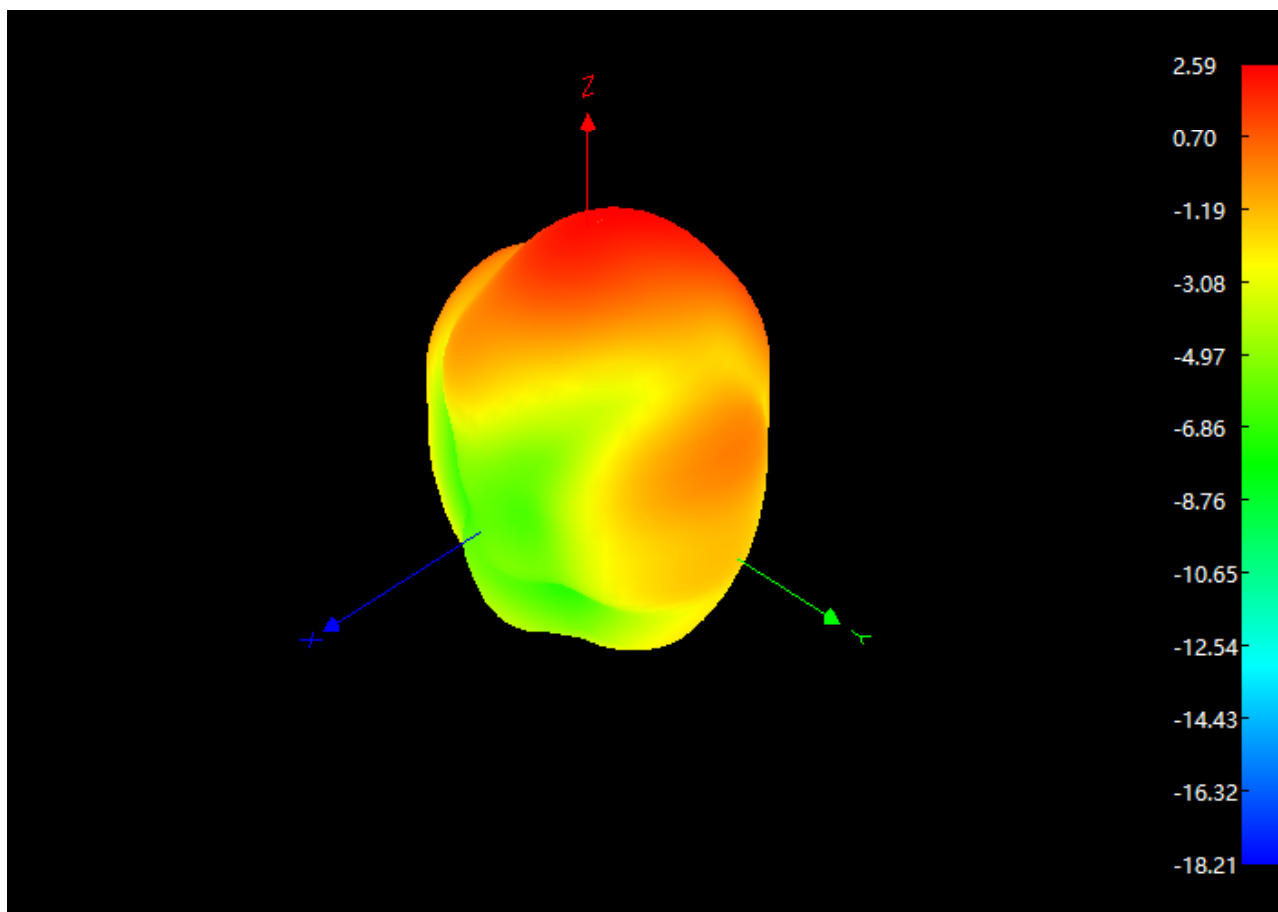
## *Antenna Passive Test*



| Passive Test For WIFI Antenna |             |              |               |
|-------------------------------|-------------|--------------|---------------|
| Freq<br>(MHz)                 | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
| 2400                          | 46.7        | -3.3         | 1.7           |
| 2410                          | 47.6        | -3.2         | 1.8           |
| 2420                          | 48.8        | -3.1         | 2.0           |
| 2430                          | 50.0        | -3.0         | 2.2           |
| 2440                          | 49.9        | -3.0         | 2.4           |
| 2450                          | 48.8        | -3.1         | 2.6           |
| 2460                          | 48.8        | -3.1         | 3.0           |
| 2470                          | 50.5        | -3.0         | 3.3           |
| 2480                          | 55.9        | -2.5         | 3.8           |
| 2490                          | 56.3        | -2.5         | 3.9           |
| 2500                          | 56.1        | -2.5         | 3.9           |

| Passive Test For WIFI Antenna |             |              |               |
|-------------------------------|-------------|--------------|---------------|
| Freq<br>(MHz)                 | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
| 5150                          | 13.6        | -8.7         | -2.8          |
| 5200                          | 16.6        | -7.8         | -1.7          |
| 5250                          | 17.3        | -7.6         | -1.3          |
| 5300                          | 19.8        | -7.0         | -0.6          |
| 5350                          | 19.0        | -7.2         | -1.0          |
| 5400                          | 23.0        | -6.4         | 0.1           |
| 5450                          | 22.2        | -6.5         | -0.5          |
| 5500                          | 20.7        | -6.8         | -0.5          |
| 5550                          | 23.6        | -6.3         | 0.2           |
| 5600                          | 22.0        | -6.6         | -0.5          |
| 5650                          | 25.4        | -6.0         | 0.8           |
| 5700                          | 24.8        | -6.1         | -0.1          |
| 5750                          | 27.5        | -5.6         | 0.0           |
| 5800                          | 23.0        | -6.4         | -0.9          |
| 5850                          | 26.1        | -5.8         | 0.1           |

## Radiation Pattern For WIFI Antenna(2450MHz)



## Radiation Pattern For WIFI Antenna(5500MHz)

