



**东莞市一佳电子通讯科技有限公司**

Dongguan Yijia Electronics Co.,Ltd.

# Antenna Test Report

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Tester : Liu tao

Approval : Yin tao

Date : 2023 / 07/ 21

**真诚 务实 开拓 创新**



## *1. Device Profile*

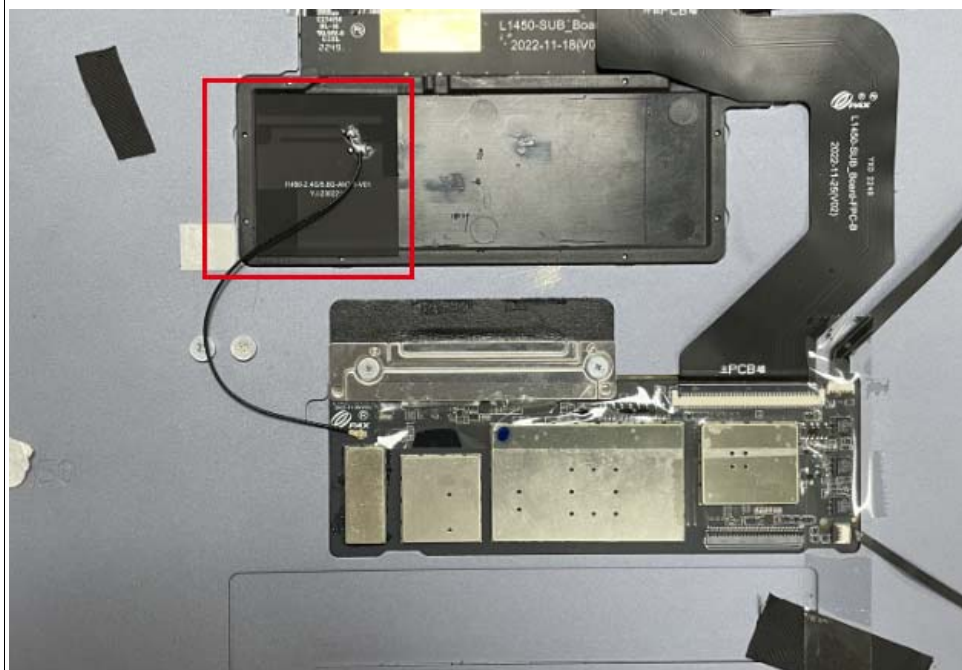
*Device*





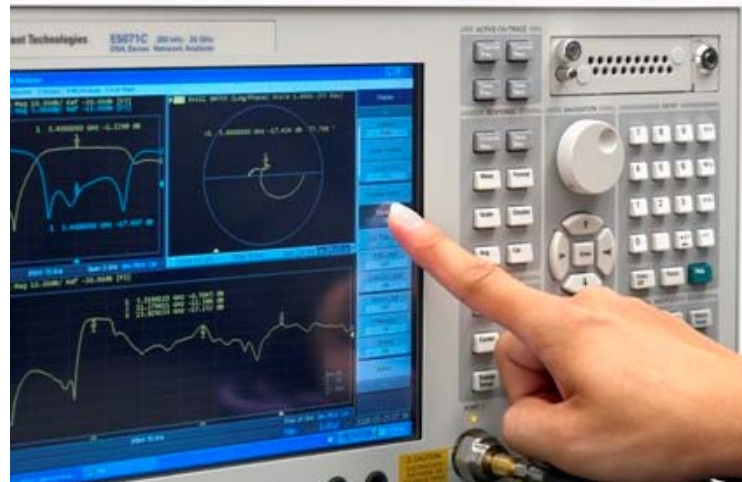
## 2. WiFi Antenna Test

# WiFi Antenna

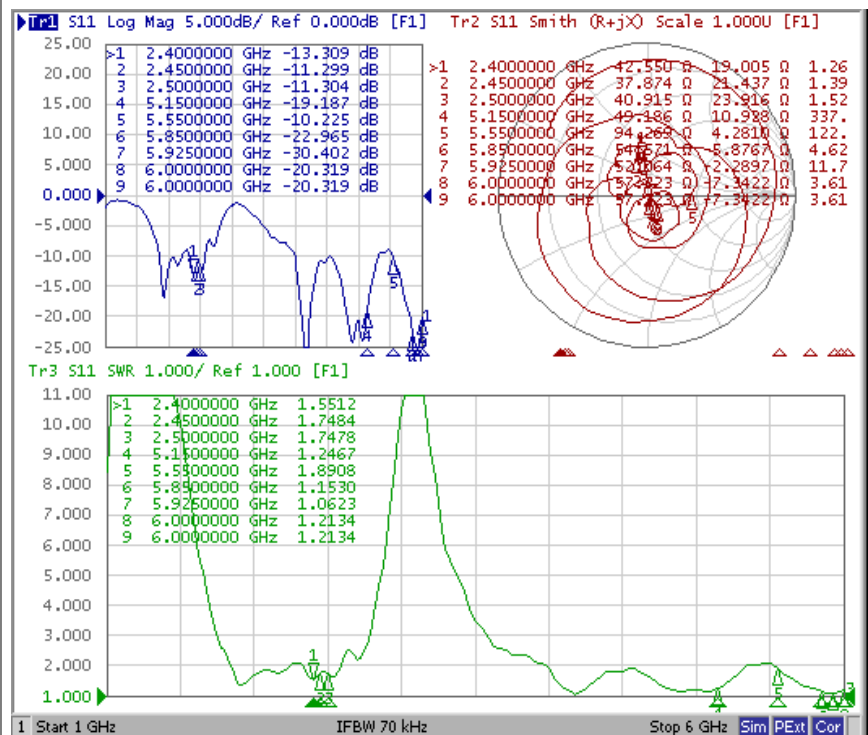




## Agilent E5071B



## S Parameter Test // WiFi Antenna





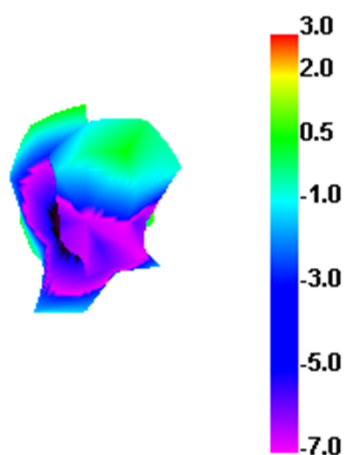
### Passive Test For WiFi Antenna(2.4G)

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 39.88       | -3.99        | 2.96          |
| 2410          | 40.14       | -3.96        | 3             |
| 2420          | 40.13       | -3.97        | 3.02          |
| 2430          | 39.59       | -4.02        | 2.9           |
| 2440          | 39.4        | -4.05        | 2.81          |
| 2450          | 41.18       | -3.85        | 2.95          |
| 2460          | 40.62       | -3.91        | 2.79          |
| 2470          | 40.75       | -3.9         | 2.52          |
| 2480          | 39.32       | -4.05        | 2             |
| 2490          | 38.53       | -4.14        | 1.89          |
| 2500          | 38.11       | -4.19        | 1.91          |

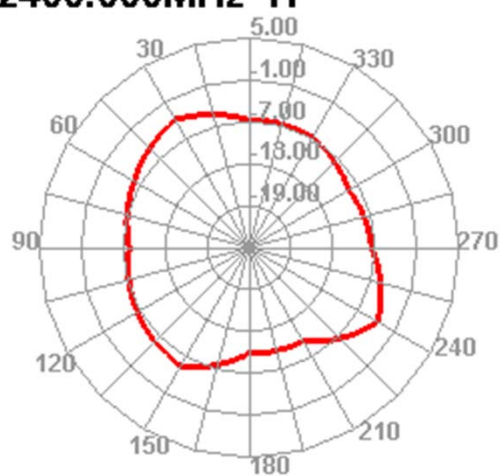


## Radiation Pattern For WiFi Antenna(2400MHz)

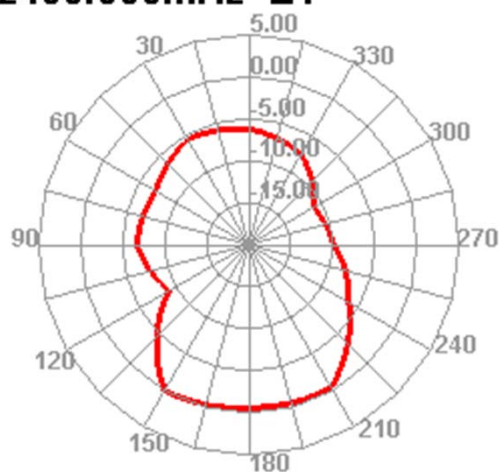
**2400.000MHz**



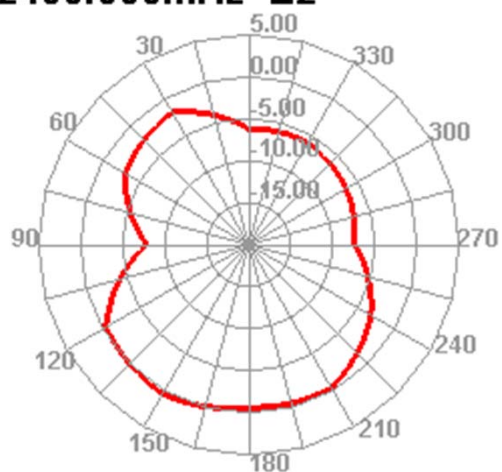
**2400.000MHz H**



**2400.000MHz E1**



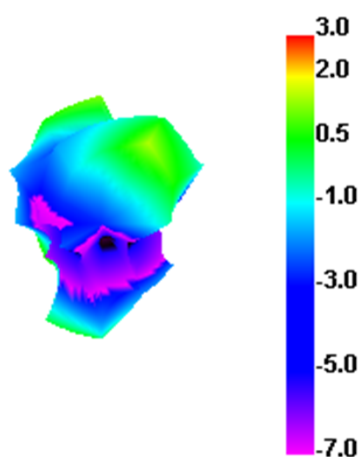
**2400.000MHz E2**



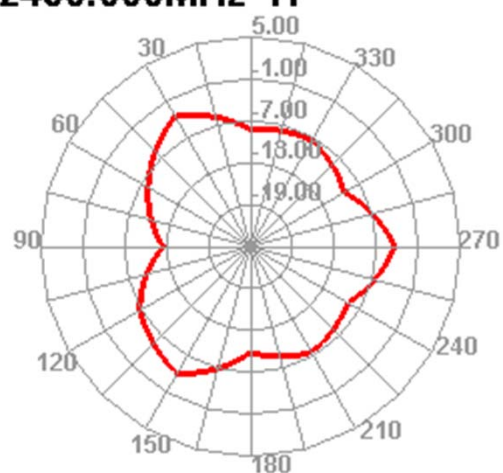


## Radiation Pattern For WiFi Antenna(2450MHz)

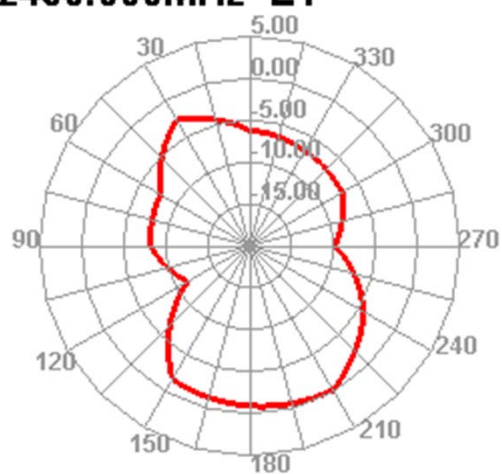
2450.000MHz



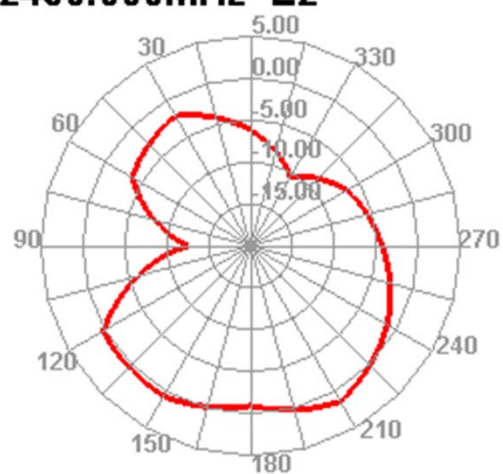
2450.000MHz H



2450.000MHz E1



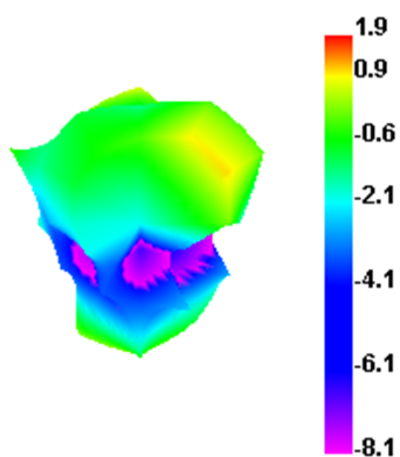
2450.000MHz E2



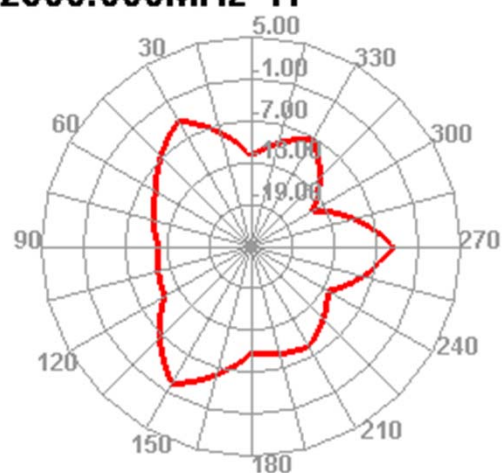


## Radiation Pattern For WiFi Antenna(2490MHz)

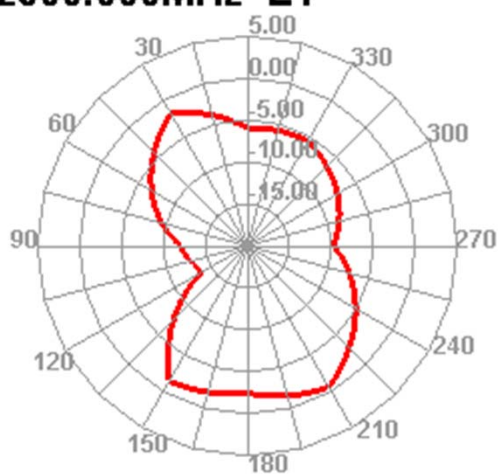
2500.000MHz



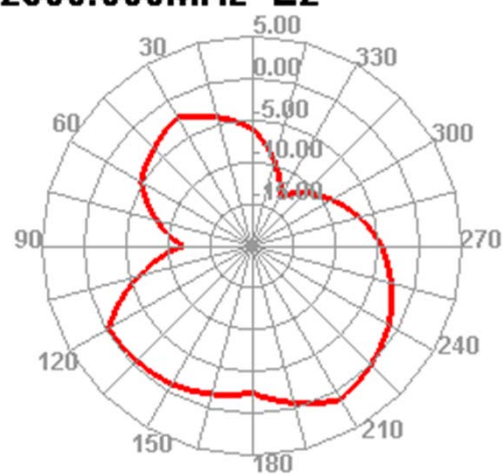
2500.000MHz H



2500.000MHz E1



2500.000MHz E2





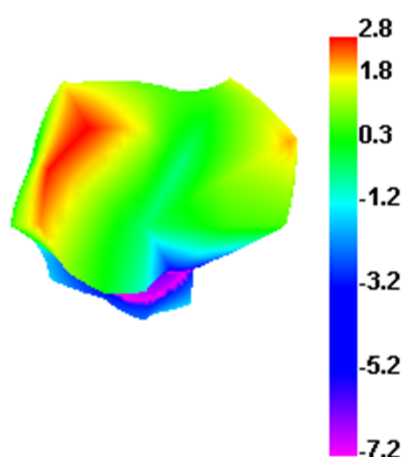
### Passive Test For WiFi Antenna(5.8G)

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 5150          | 34.95       | -4.57        | 2.79          |
| 5200          | 37.46       | -4.26        | 2.85          |
| 5250          | 36.95       | -4.32        | 2.85          |
| 5300          | 35.19       | -4.54        | 2.21          |
| 5350          | 31.1        | -5.07        | 1.61          |
| 5400          | 29.43       | -5.31        | 1.43          |
| 5450          | 30.01       | -5.23        | 1.37          |
| 5500          | 31.57       | -5.01        | 1.25          |
| 5550          | 32.48       | -4.88        | 1.05          |
| 5600          | 37.48       | -4.26        | 1.12          |
| 5650          | 51.58       | -2.87        | 2.47          |
| 5700          | 46.72       | -3.3         | 1.87          |
| 5750          | 45.39       | -3.43        | 1.84          |
| 5800          | 38.88       | -4.1         | 1.5           |
| 5850          | 36.07       | -4.43        | 1.58          |

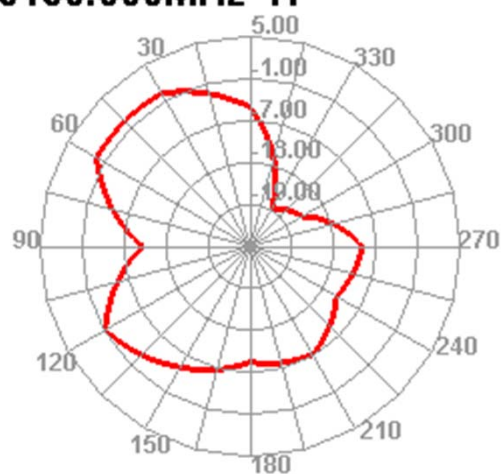


## Radiation Pattern For WiFi Antenna(5150MHz)

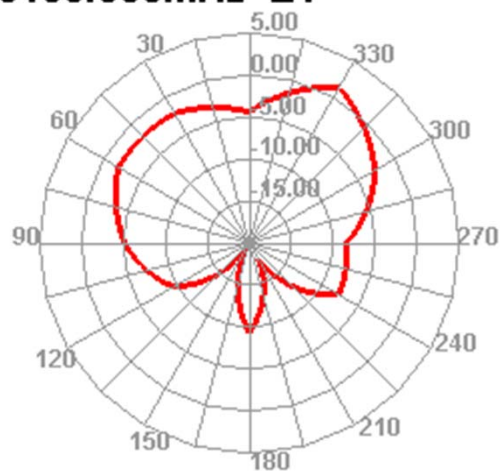
5150.000MHz



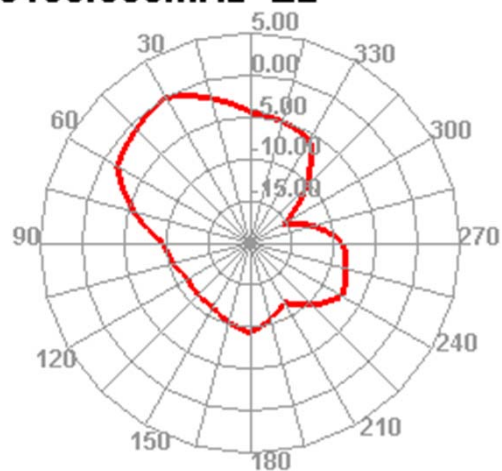
5150.000MHz H



5150.000MHz E1



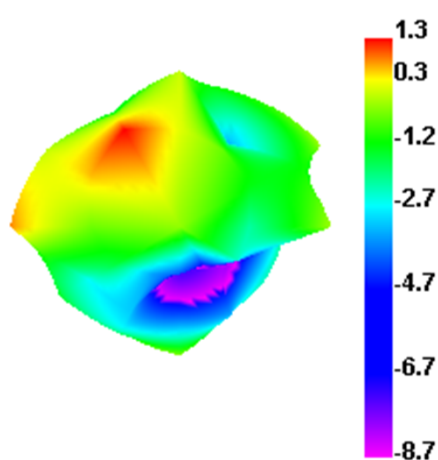
5150.000MHz E2



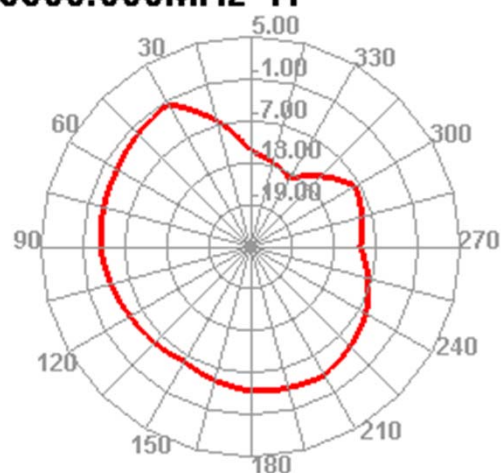


## Radiation Pattern For WiFi Antenna(5500MHz)

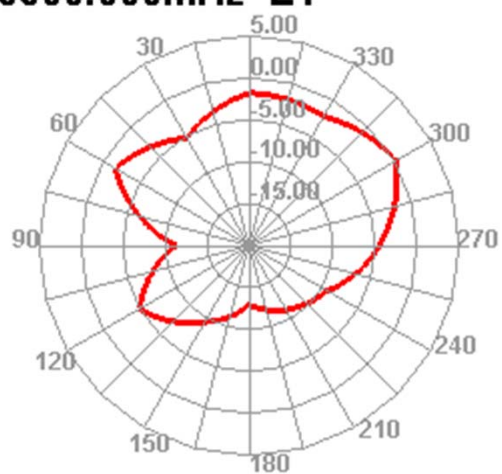
5500.000MHz



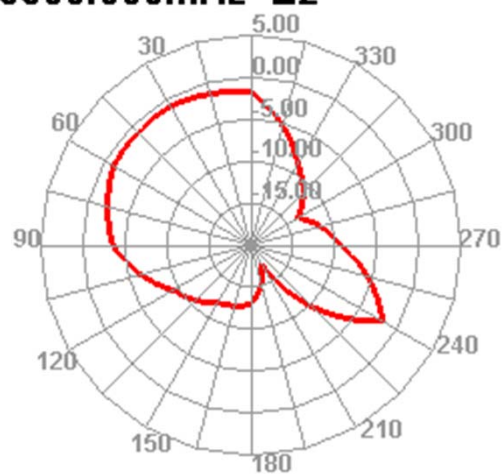
5500.000MHz H



5500.000MHz E1



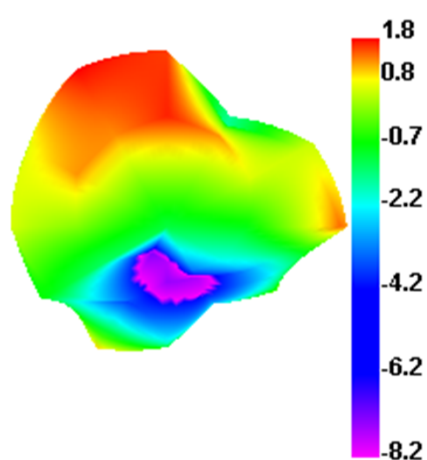
5500.000MHz E2



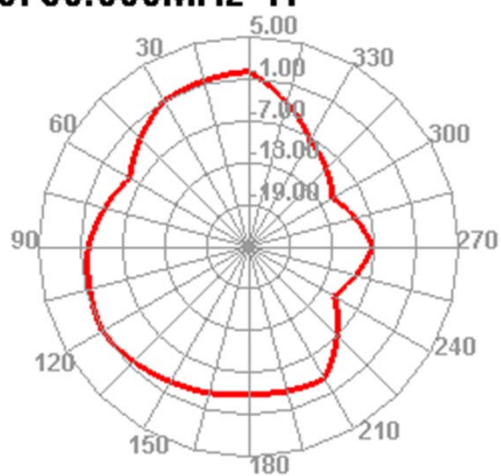


## Radiation Pattern For WiFi Antenna(5750MHz)

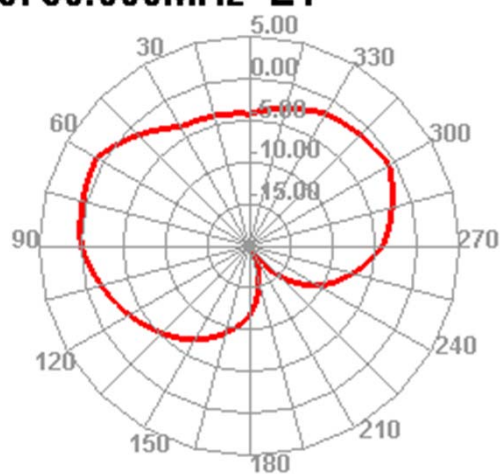
**5750.000MHz**



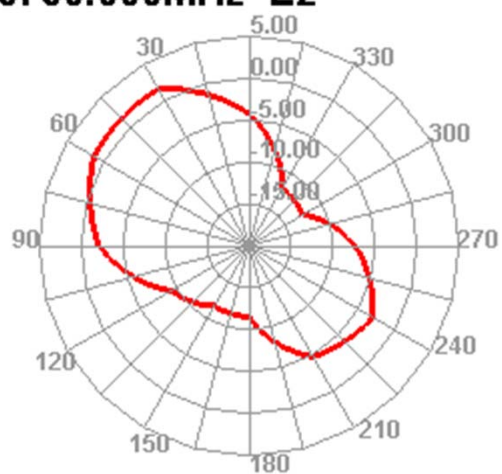
**5750.000MHz H**



**5750.000MHz E1**



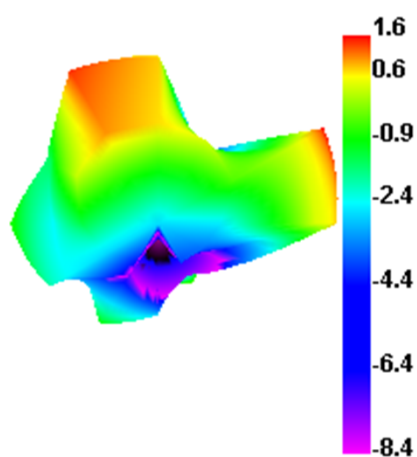
**5750.000MHz E2**



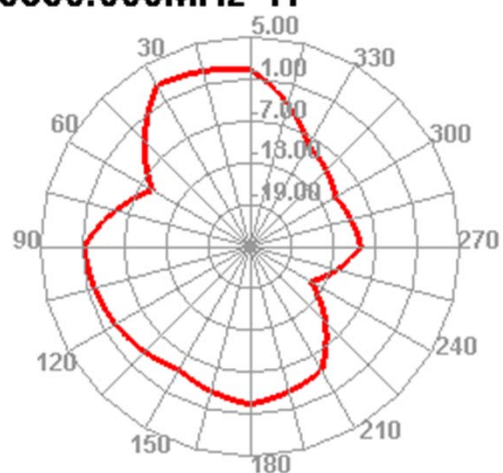


## Radiation Pattern For WiFi Antenna(5850MHz)

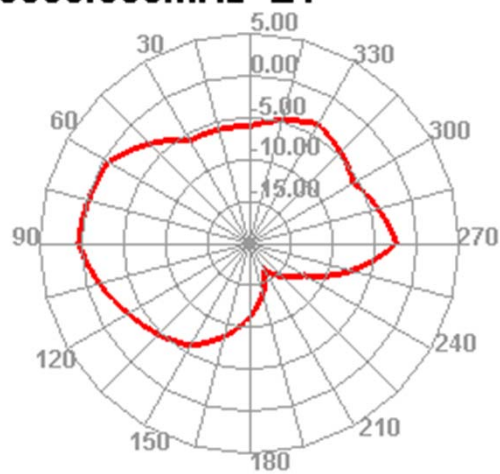
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2

