

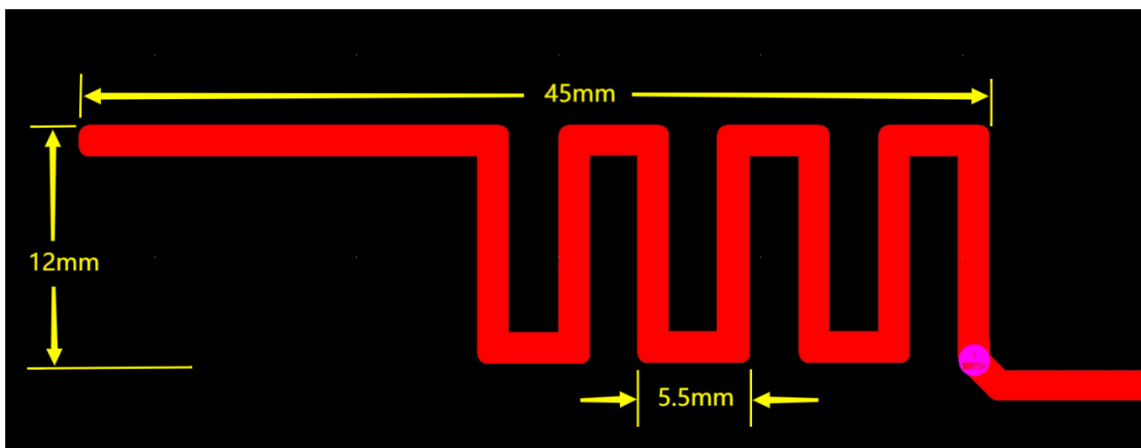
# Antenna Specification

## Specifications

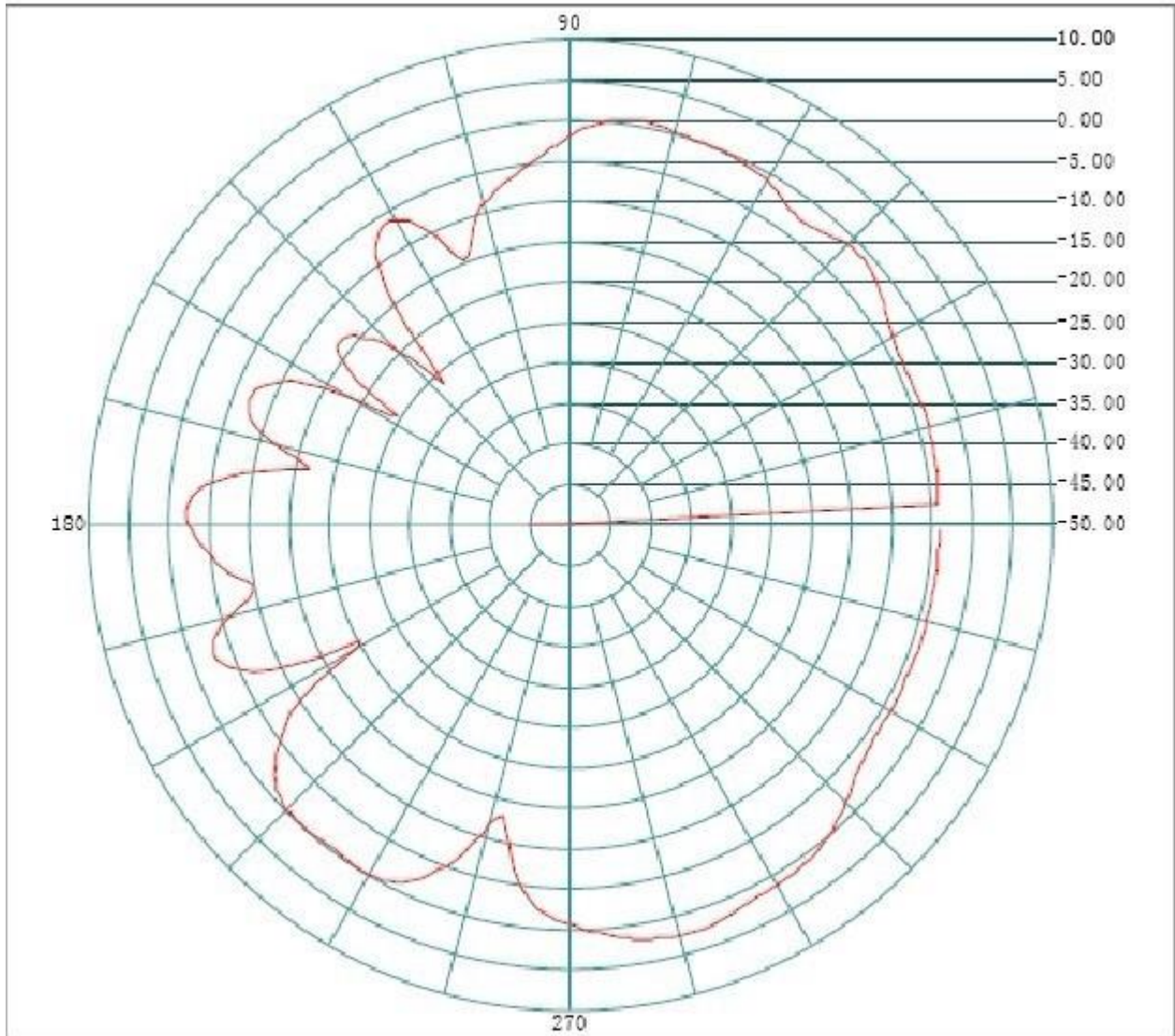
### Summary

| ITEM                 | SPEC.            |          |
|----------------------|------------------|----------|
| Model Name           | IBM 2.4 GHz      |          |
| Center Frequency     | 2402 MHz         | 2.34 dBi |
|                      | 2441 MHz         | 2.07 dBi |
|                      | 2480 MHz         | 1.45 dBi |
| MAX. GAIN            | 2.34 dBi         |          |
| Polarization         | Horizontal       |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50 $\Omega$      |          |
| Antenna Length       | 3.1 cm           |          |

Antenna Photo & Length ( mm )



|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Test Address    | 16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303 , Taiwan |
| Test Date       | 2018-10-10                                                                 |
| Test Instrument | vector network analyzer - R&S ZVB20                                        |



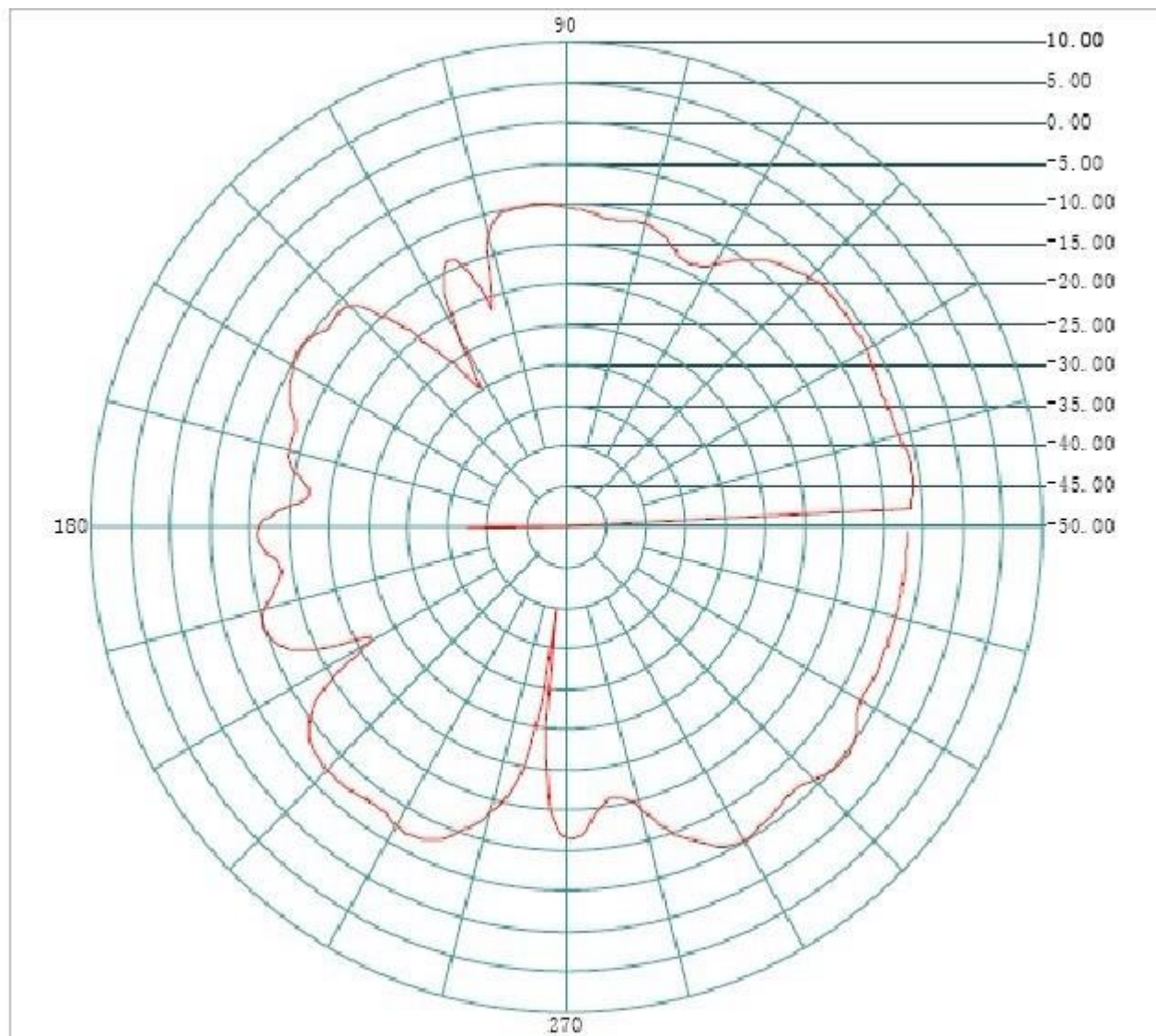
**1. Main antenna : 2402 MHz**

### **1.1 Horizontal**

Frequency(MHZ): **2402** Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.34**

Average Gain(dBi) : **-2.48**



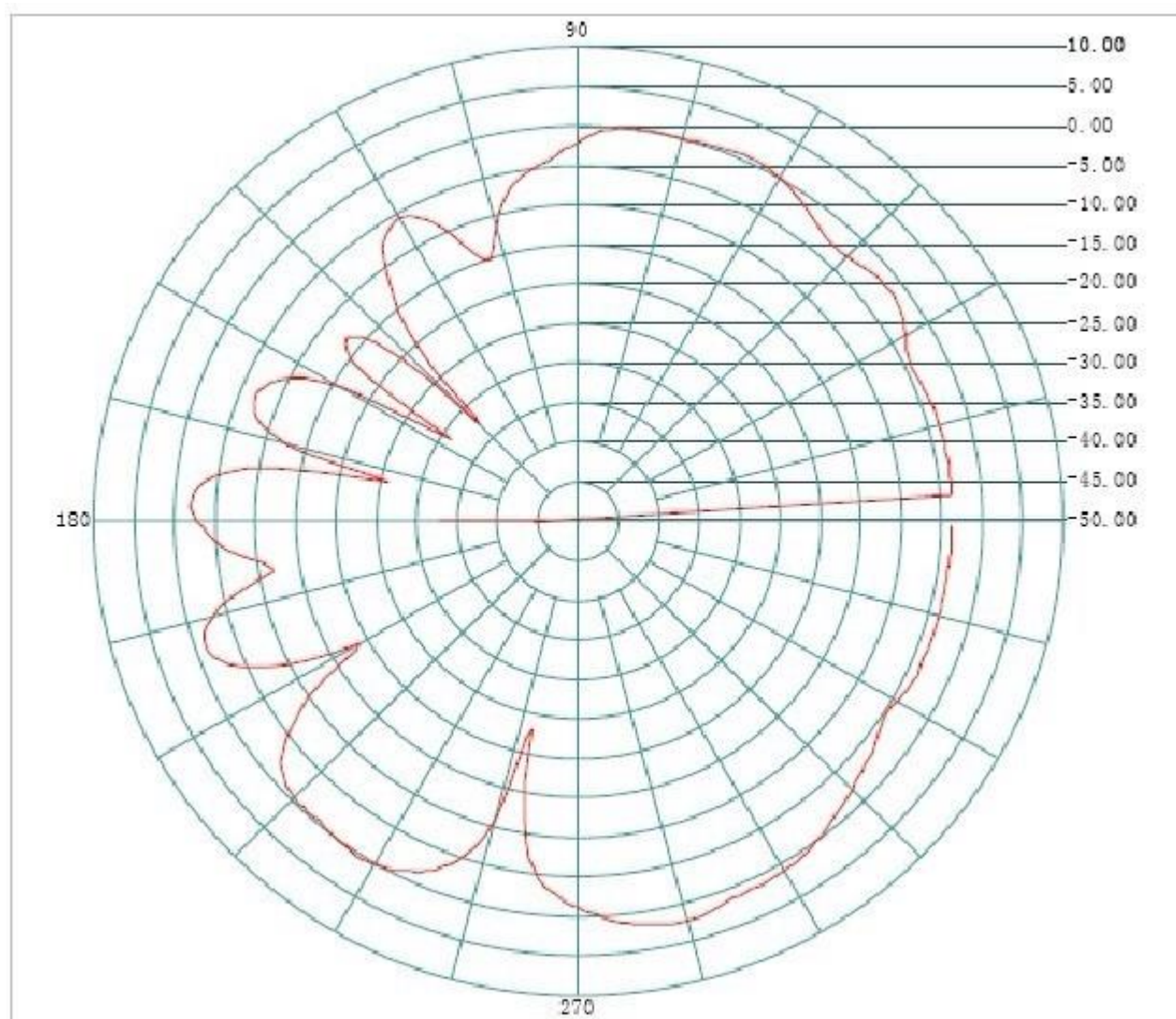
Minimum Gain(dBi): **-55.18**

**1.2 Vertical**

Frequency(MHZ): **2402** Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.51**

Average Gain(dBi) : **-8.98**



Minimum Gain(dBi): **-62.3**

## **2. Main antenna : 2441 MHz**

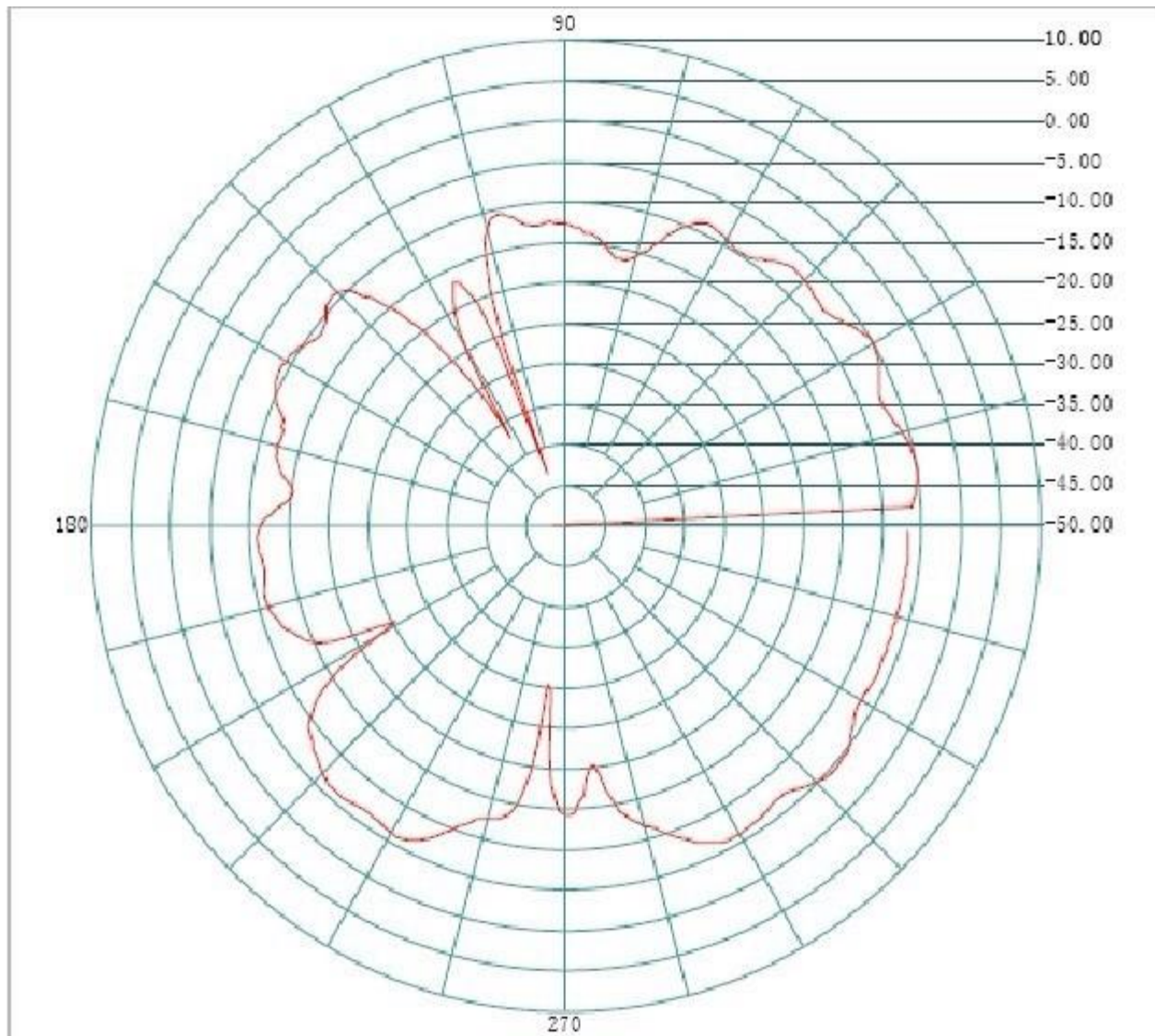
### **2.1 Horizontal**

Frequency(MHZ): **2441** Antenna Polarity: **Horizontal**

Maximum Value(dBi): 2.07

Average Gain(dBi) : **-2.54**





Minimum Gain(dBi): **-66.98**

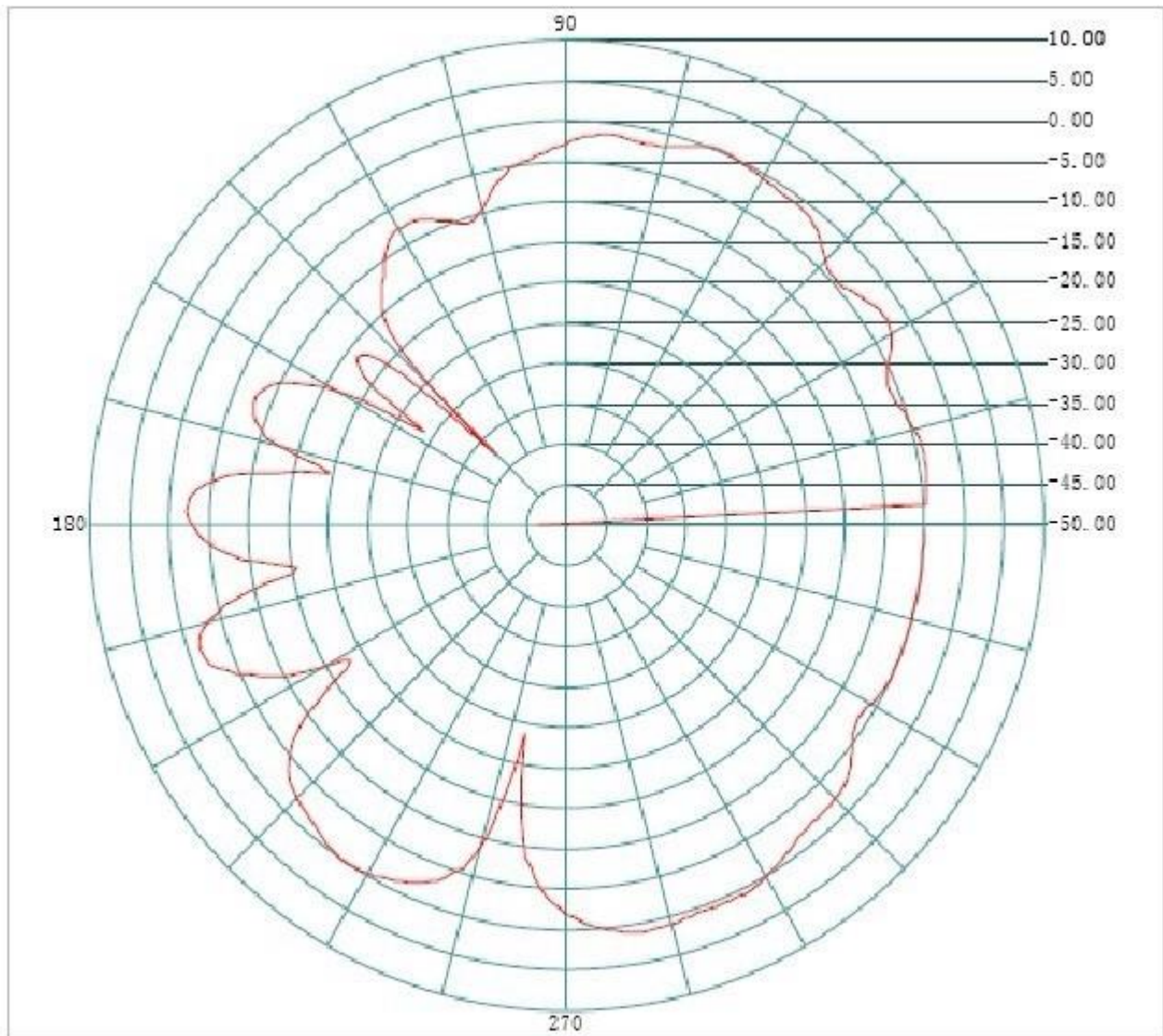
## **2.2 Vertical**

Frequency(MHZ): **2441** Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.29**

Average Gain(dBi) : **-8.81**

Minimum Gain(dBi): **-51.4**



## 2. Main antenna : 2480 MHz

### 2.1 Horizontal

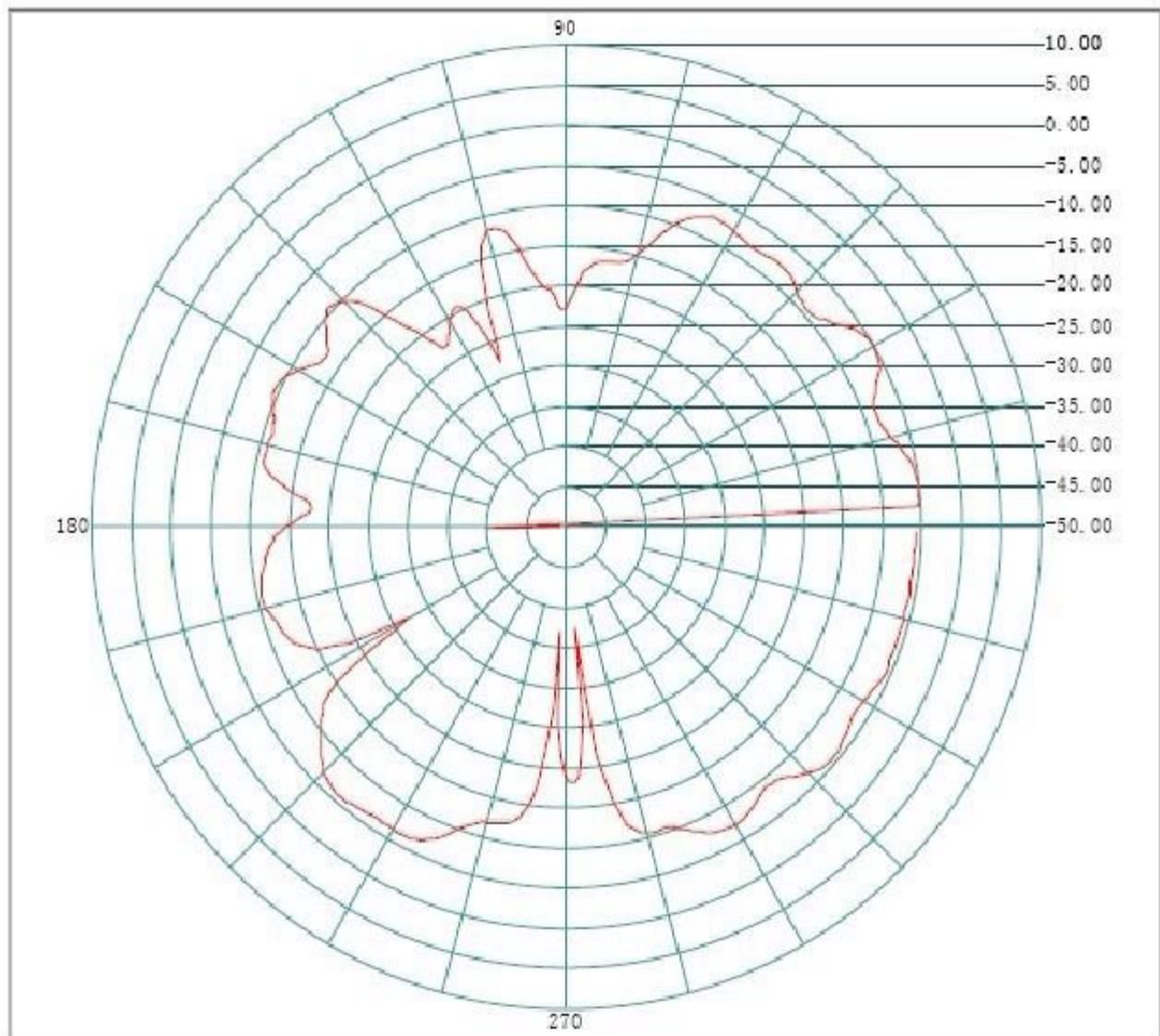
Frequency(MHZ): **2480** Antenna Polarity: **Horizontal**

Maximum Value(dBi): **1.45**

Average Gain(dBi) : **-3.34**

Minimum Gain(dBi): **-53.4**

### 2.2 Vertical



Frequency(MHZ): **2480** Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.95**

Average Gain(dBi) : **-9.06**

Minimum Gain(dBi): **-60.00**