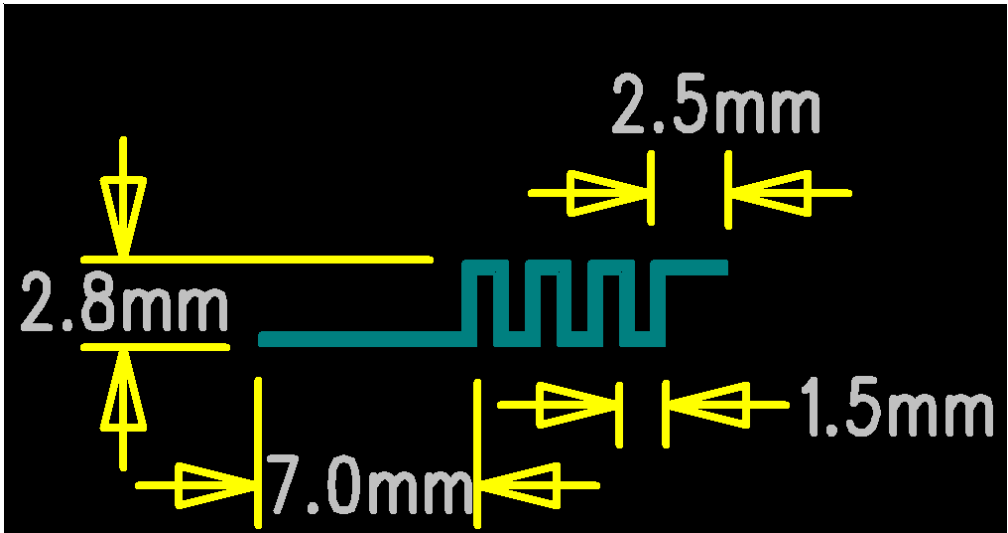


# Antenna Specification

## Specifications Summary

| ITEM                 | SPEC.            |          |
|----------------------|------------------|----------|
| Model Name           | IBM 2.4 GHz      |          |
| Center Frequency     | 2403 MHz         | 2.24 dBi |
|                      | 2441 MHz         | 2.20 dBi |
|                      | 2480 MHz         | 1.81 dBi |
| MAX. GAIN            | 2.24 dBi         |          |
| Polarization         | Horizontal       |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50 $\Omega$      |          |
| Antenna Length       | 3.2cm            |          |

Antenna Photo & Length (mm)



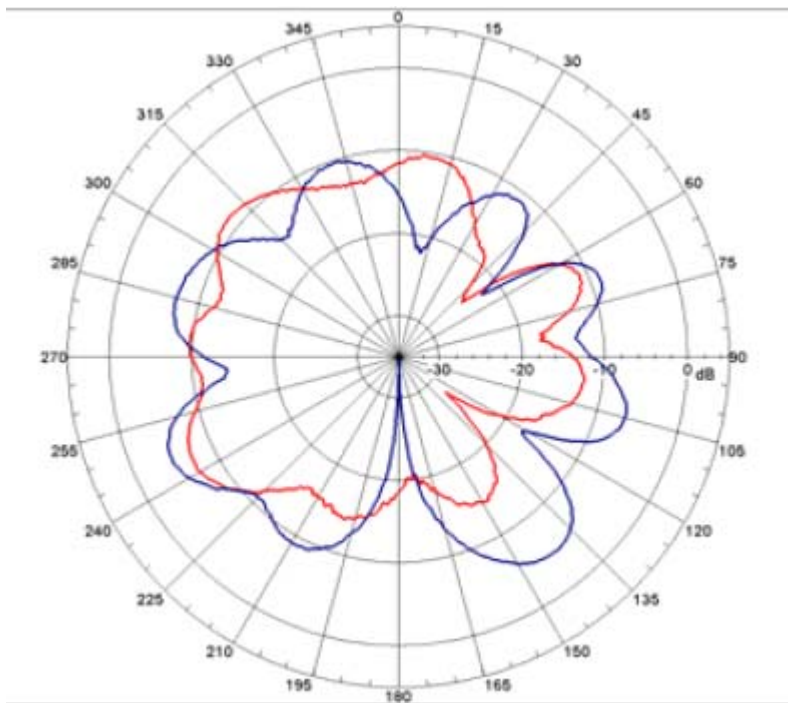
|                 |                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------|
| Test Address    | C408, Lan Guang Technology Park, Xin Xi Road, North District, Nanshan District, Shenzhen, China |
| Test Date       | 2022-09-19                                                                                      |
| Test Instrument | vector network analyzer - R&S ZVB20                                                             |

## 1. Main antenna : 2403 MHz

(green line: horizontal power)

(red line: vertical power)

### 1.1 Horizontal



Frequency(MHZ): **2403**

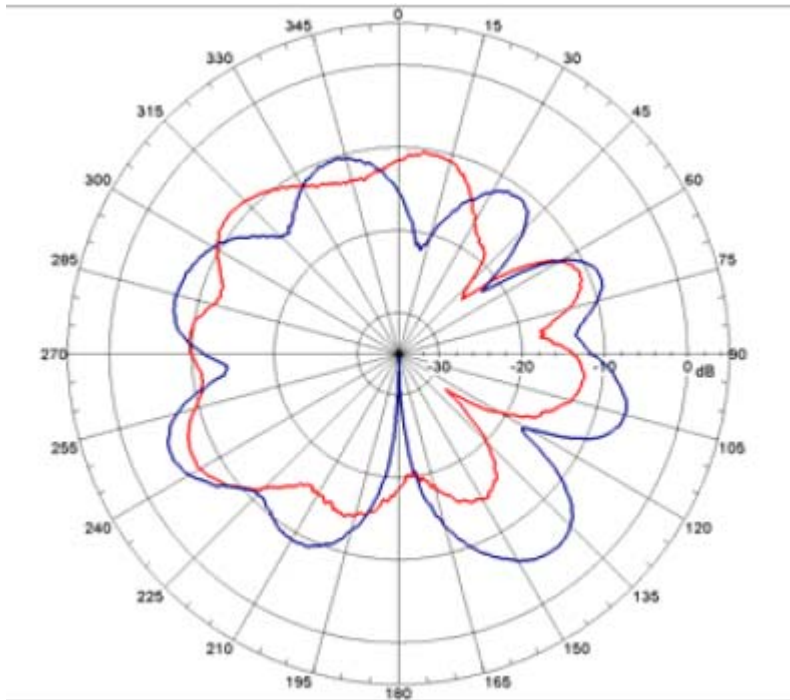
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.24**

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

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

### 1.2 Vertical



Frequency(MHZ):       **2403**

Antenna Polarity:       **Vertical**

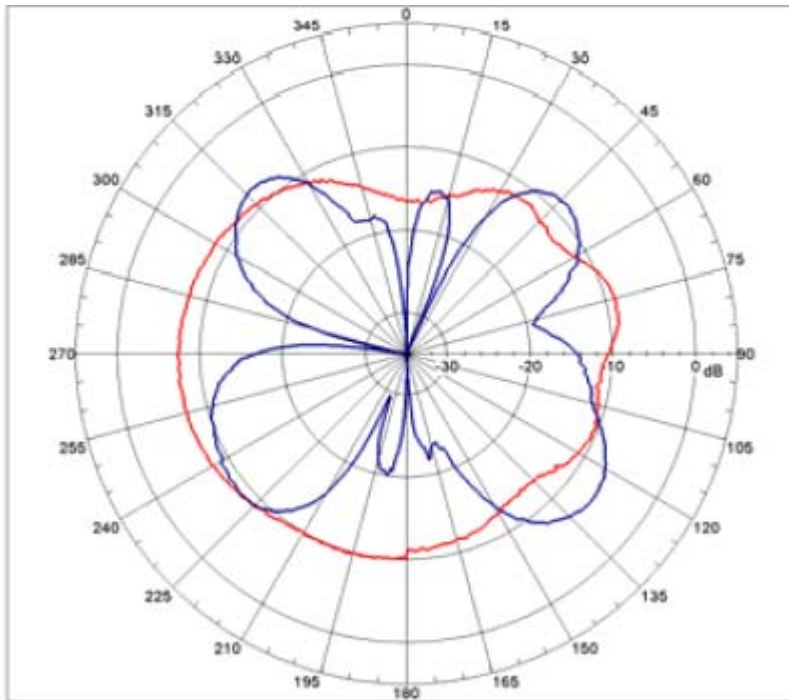
Maximum Value(dBi):   **-4.51**

Average Gain(dBi) :   **-8.98**

Minimum Gain(dBi):   **-62.3**

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

### **2.1 Horizontal**



Frequency(MHZ):      **2441**

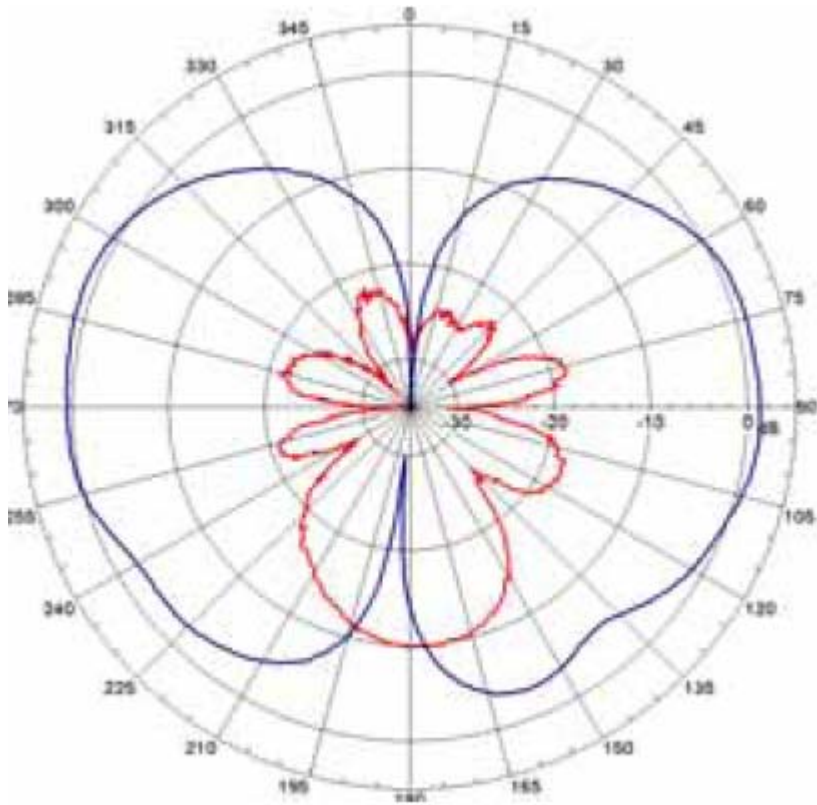
Antenna Polarity:      **Horizontal**

Maximum Value(dBi):   **2.20**

Average Gain(dBi) :   **-2.44**

Minimum Gain(dBi):   **-64.78**

## **2.2 Vertical**



Frequency(MHZ):      **2441**

Antenna Polarity:      **Vertical**

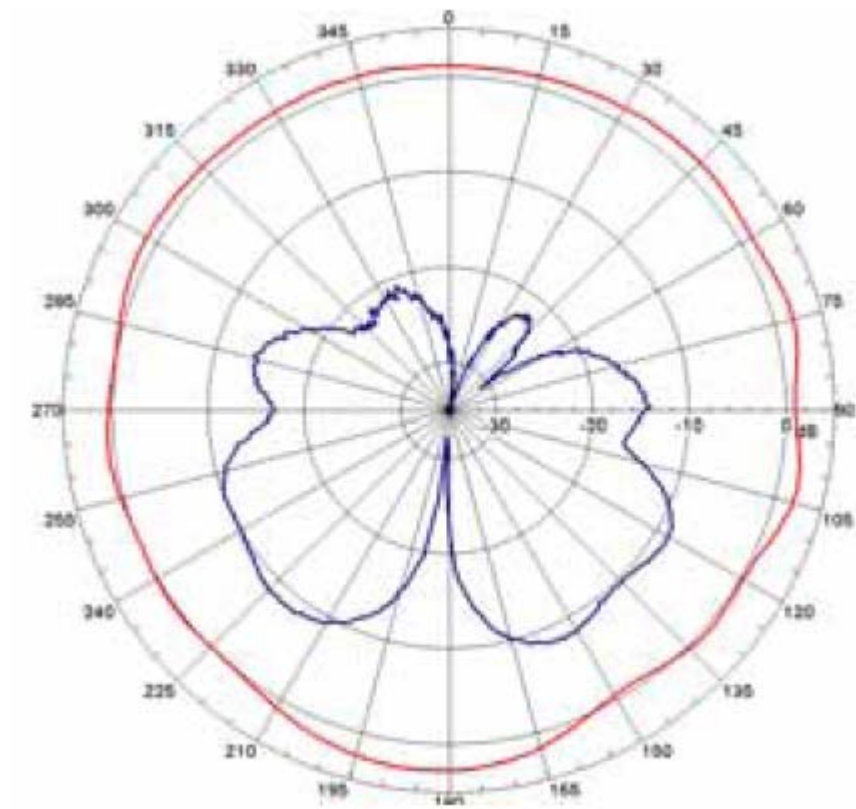
Maximum Value(dBi):   **-4.29**

Average Gain(dBi) :    **-8.41**

Minimum Gain(dBi):    **-47.4**

## **2. Main antenna : 2480 MHz**

### **2.1 Horizontal**



Frequency(MHZ):      **2480**

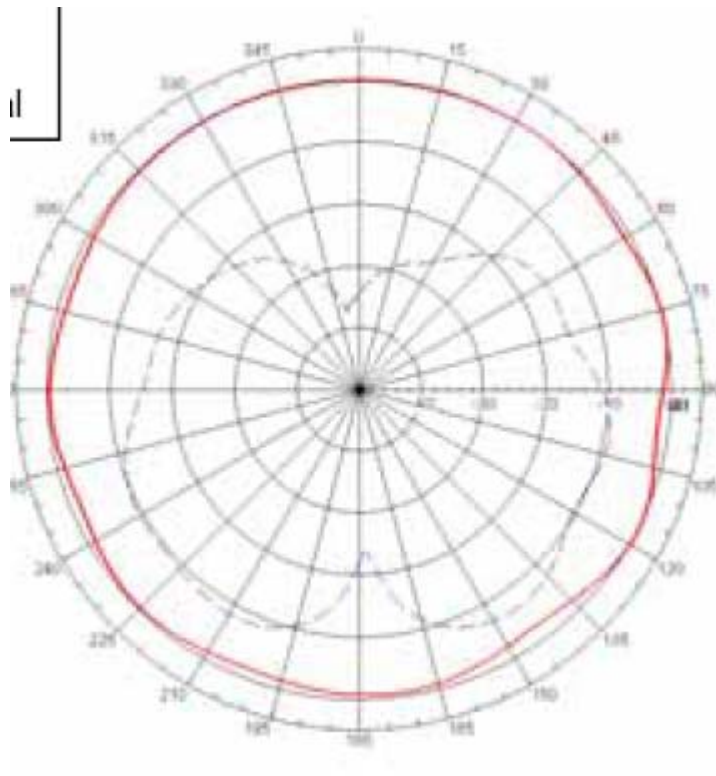
Antenna Polarity:      **Horizontal**

Maximum Value(dBi):   **1.81**

Average Gain(dBi) :   **-4.34**

Minimum Gain(dBi):   **-55.4**

**2.2 Vertical**



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

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

Average Gain(dBi) : **-14.06**

Minimum Gain(dBi): **-64.00**