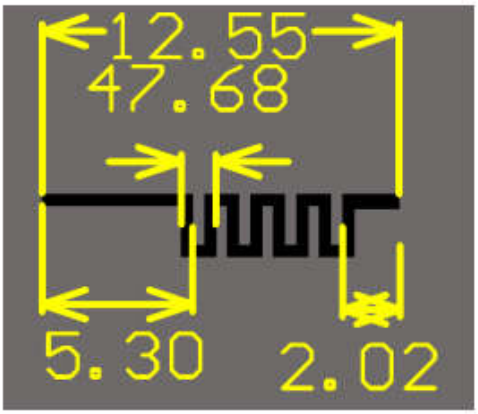
Antenna Specification

Specifications

Summary

ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Center Frequency	2403 MHz 2441 MHz 2480 MHz	-2.20 dBi -2.34 dBi -4.24 dBi
MAX. GAIN	-2.20 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Antenna Length	3.12cm	

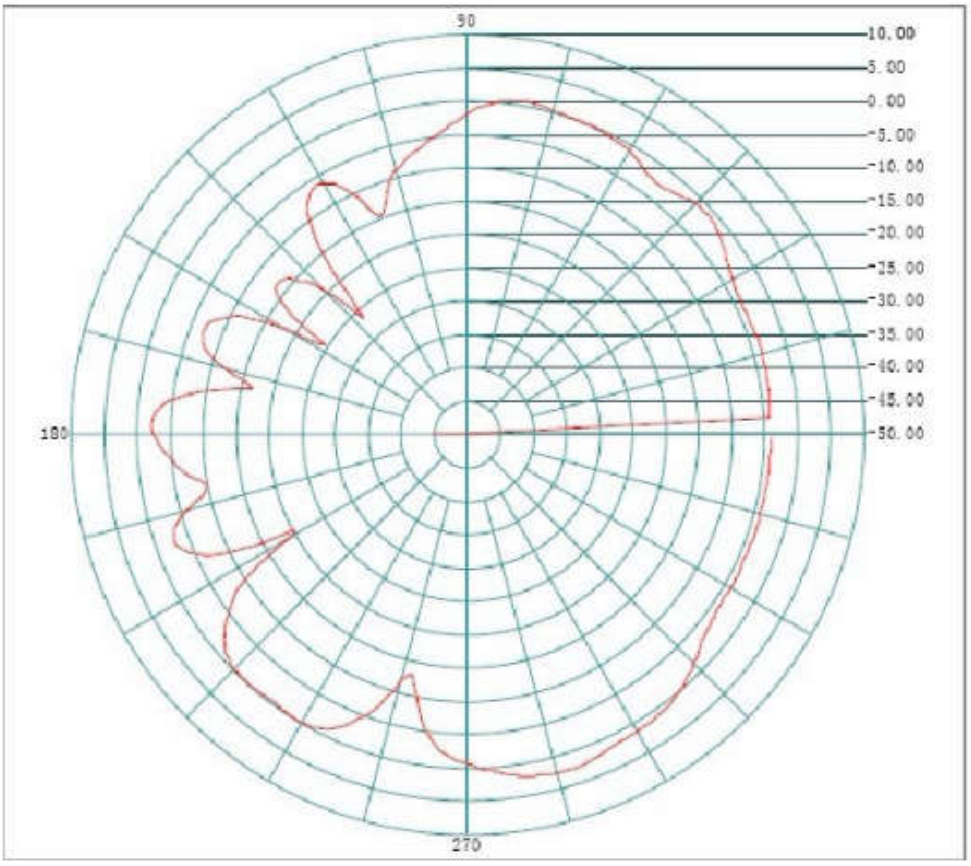
Antenna Photo & Length (mm)



Manufacturer	**DongGuan Qiaohe Electronics CO.,LTD**
Test Address	**Dongguan Enterprise Shi Zhen dongxing (private) industrial park**
Test Date	**2023-03-16**

1. Main antenna : 2403 MHz

1.1 Horizontal



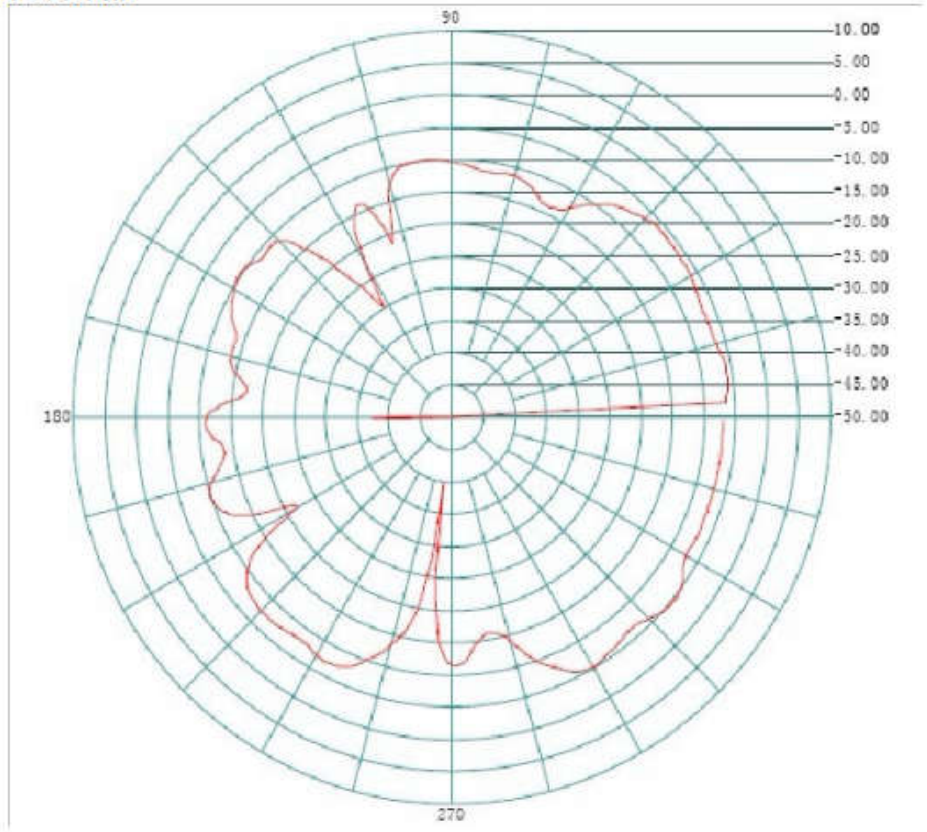
Frequency(MHZ): **2403** Antenna Polarity: **Horizontal**

Maximum Value(dBi): **-4.50**

Average Gain(dBi) : **-2.20**

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

1.2 Vertical



Frequency(MHZ): **2403** Antenna Polarity: **Vertical**

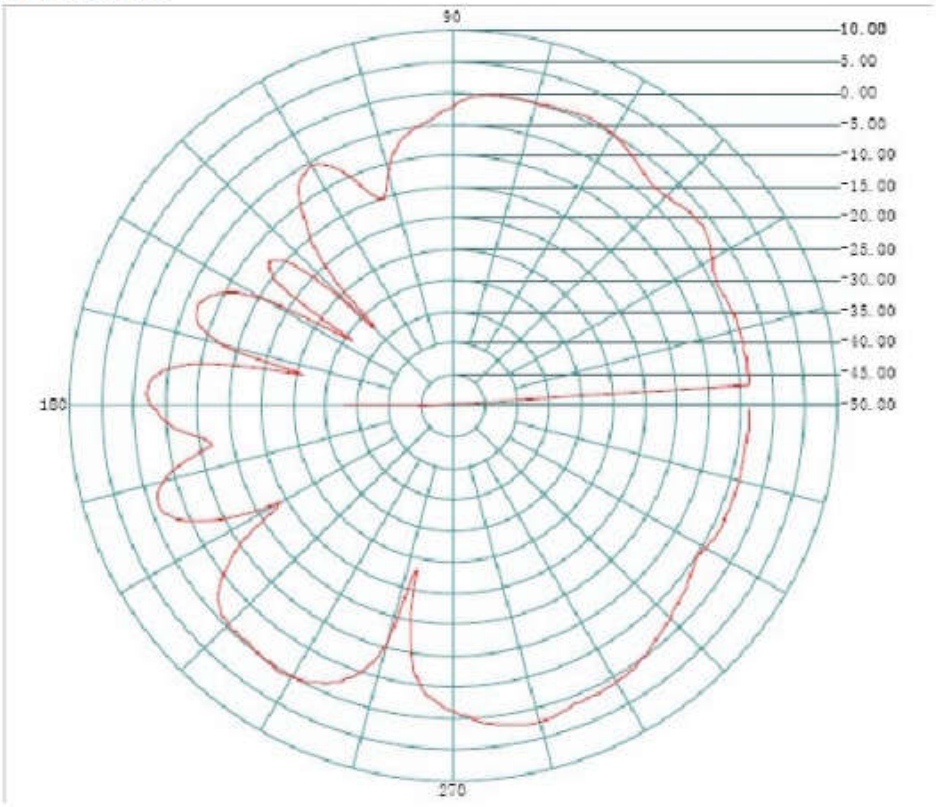
Maximum Value(dBi): **-4.51**

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

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

2. Main antenna : 2441 MHz

2.1 Horizontal



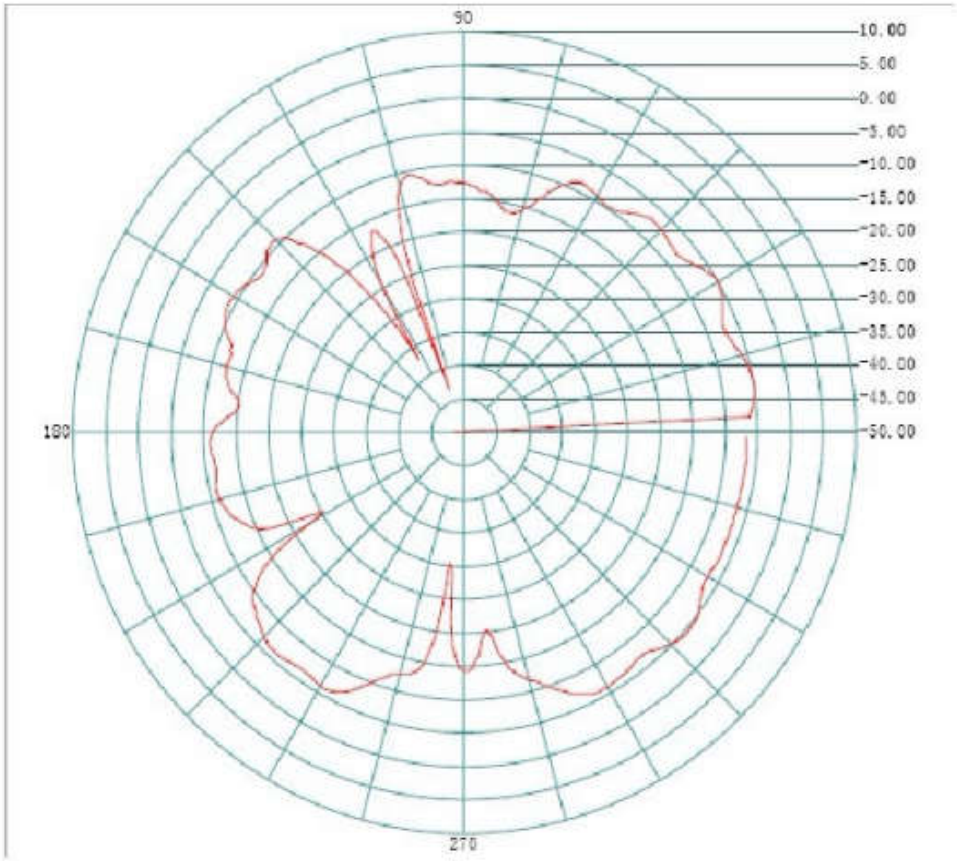
Frequency(MHZ): **2441** Antenna Polarity: **Horizontal**

Maximum Value(dBi): 2.20

Average Gain(dBi) : **-2.34**

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

2.2 Vertical



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

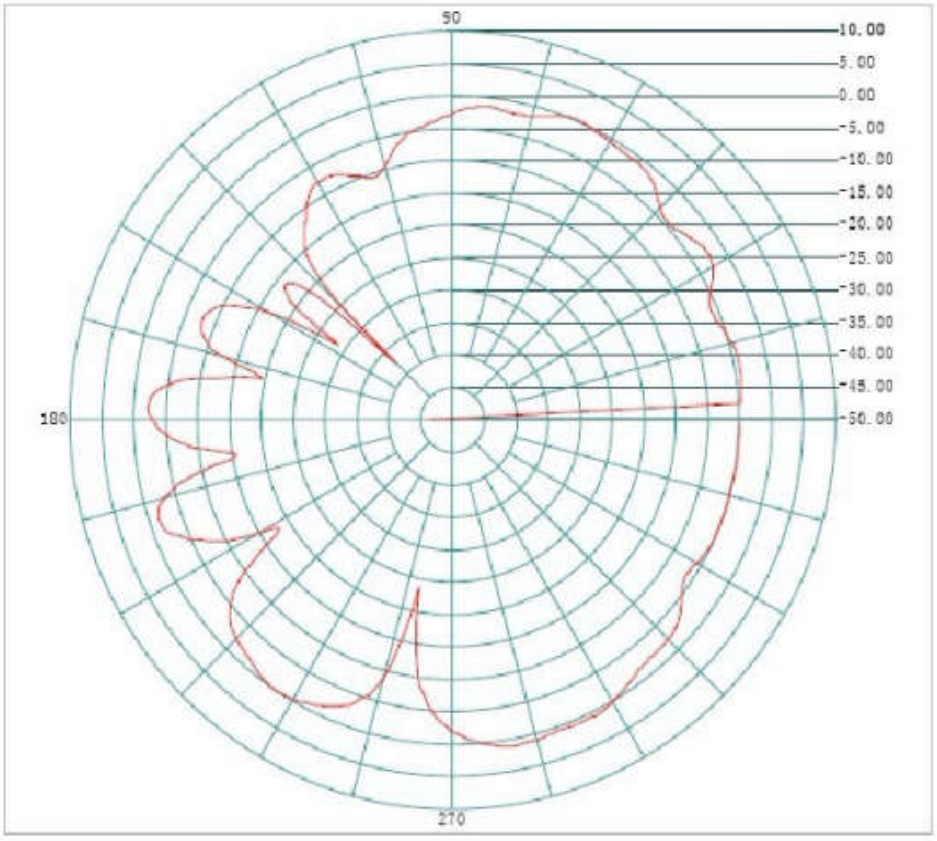
Maximum Value(dBi): **-4.29**

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

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

2. Main antenna : 2480 MHz

2.1 Horizontal



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

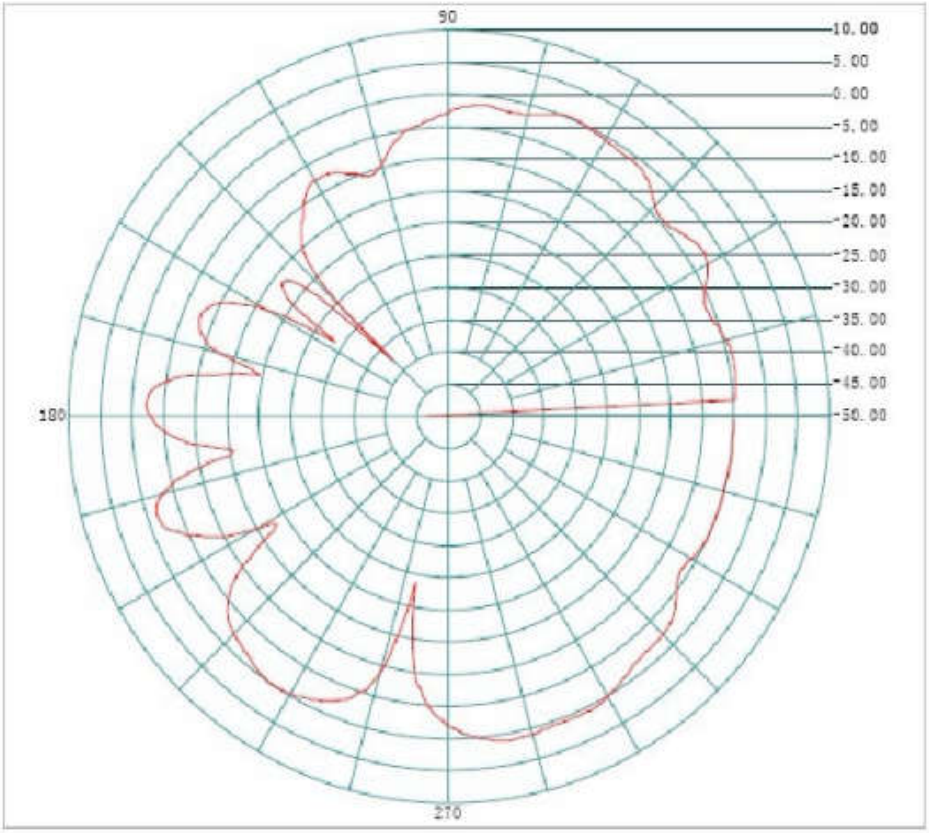
Maximum Value(dBi): **-4.24**

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

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

2. Main antenna : 2480 MHz

2.1 Horizontal



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

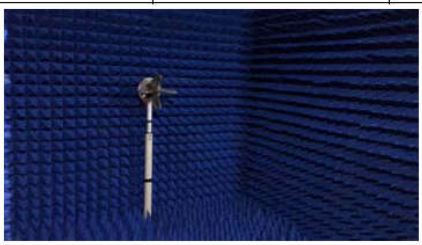
Maximum Value(dBi): **-4.24**

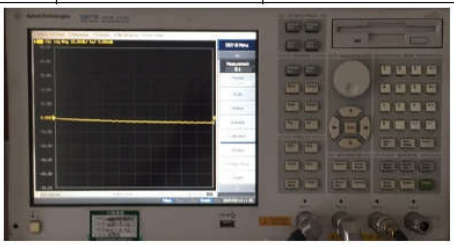
Average Gain(dBi) : **-3.34**

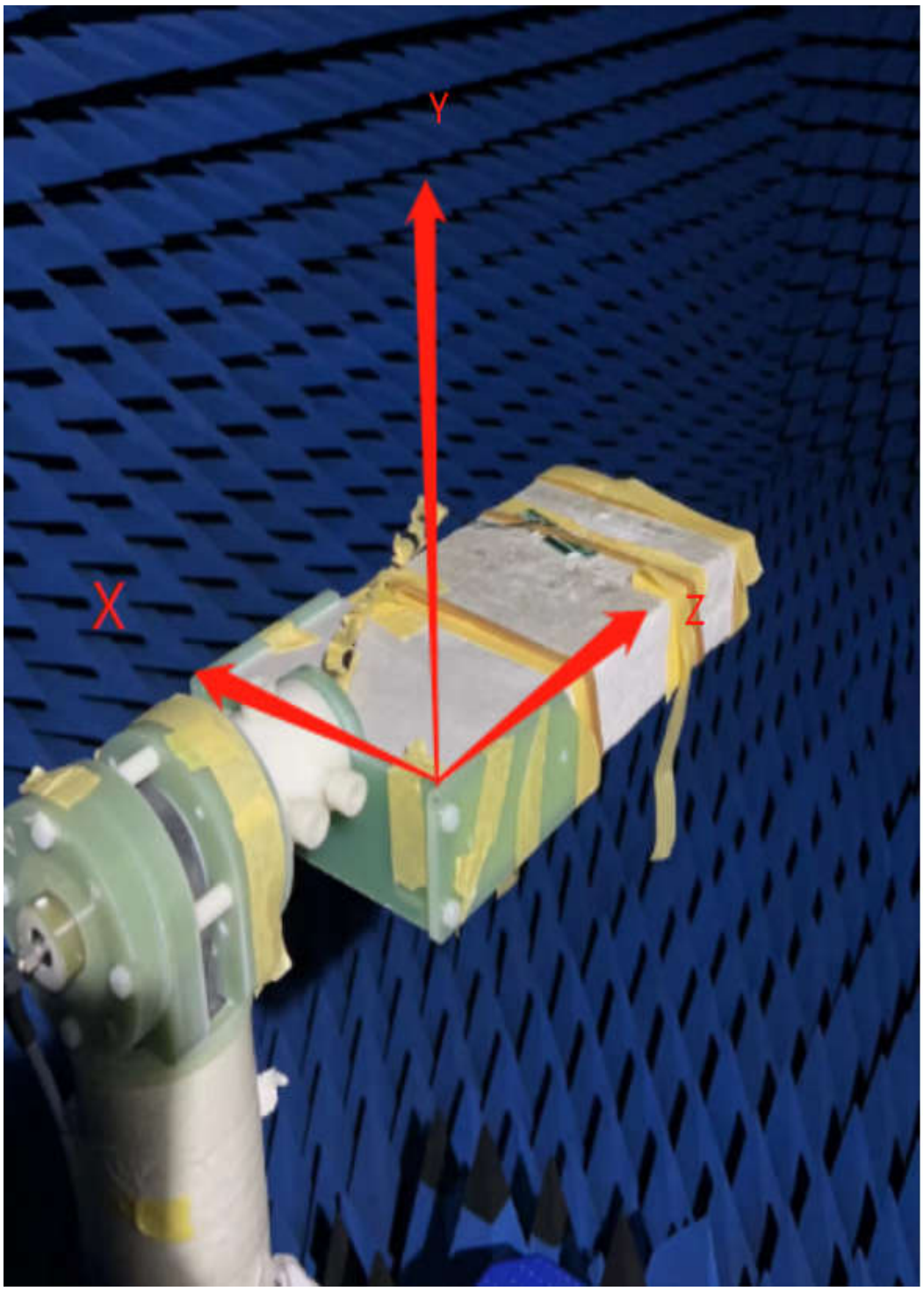
Minimum Gain(dBi): **-53.4**

3. Test environment

/	Test items	Equipment		
S11	1. Return loss 2.VSWR	Equipment	Model No	Manufacturers
		Analyzers	E5071B	Agilent
		Coaxial Cabie	RG316	YiRui
Testing	1. 2D、3DRaditation Pattern 2. Antenna gain 3. Antenna efficiency	OTA	ETS 5*3*3(3D)	Guang Ping
		Analyzers	E5071B	Agilent
		PC Console	Win 7	ASUS
		OTA	ETS;Far Field probe	Guang Ping
		3D turntable	ϕ1*1*1.5(3D)	Guang Ping







Equipment，5071B，
Soft：Guang Ping，

- Laboratory specification：7*3*3

Test date: 2023.6.10

Tester：邓志颖

- Testing company：Dongguan Baishun intelligent technology Co., LTD
  Test setup photos and description of measurement methods:
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