

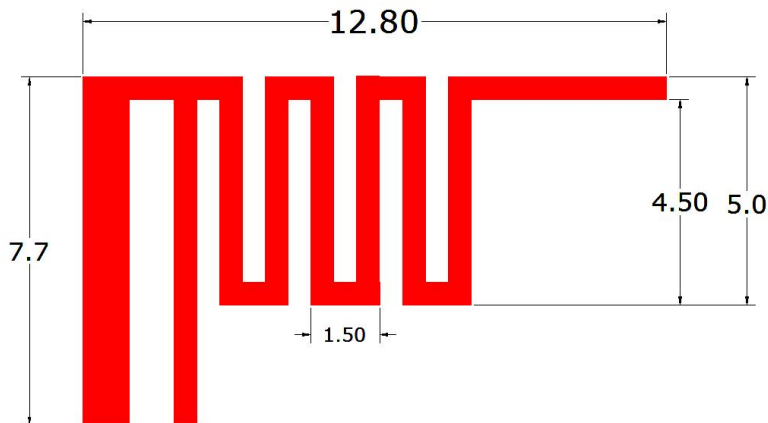
Antenna Specification

Specifications

Summary

ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Center Frequency	2402 MHz	1.59 dBi
	2441 MHz	1.07dBi
	2480 MHz	1.45 dBi
MAX. GAIN	1.59 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Antenna Size	L: 12.8mm H: 7.7mm	

Antenna Photo & Length (mm)



Type:PCB

Manufacture:
Xin Man Da Circuit
(Shenzhen)Co., Ltd.

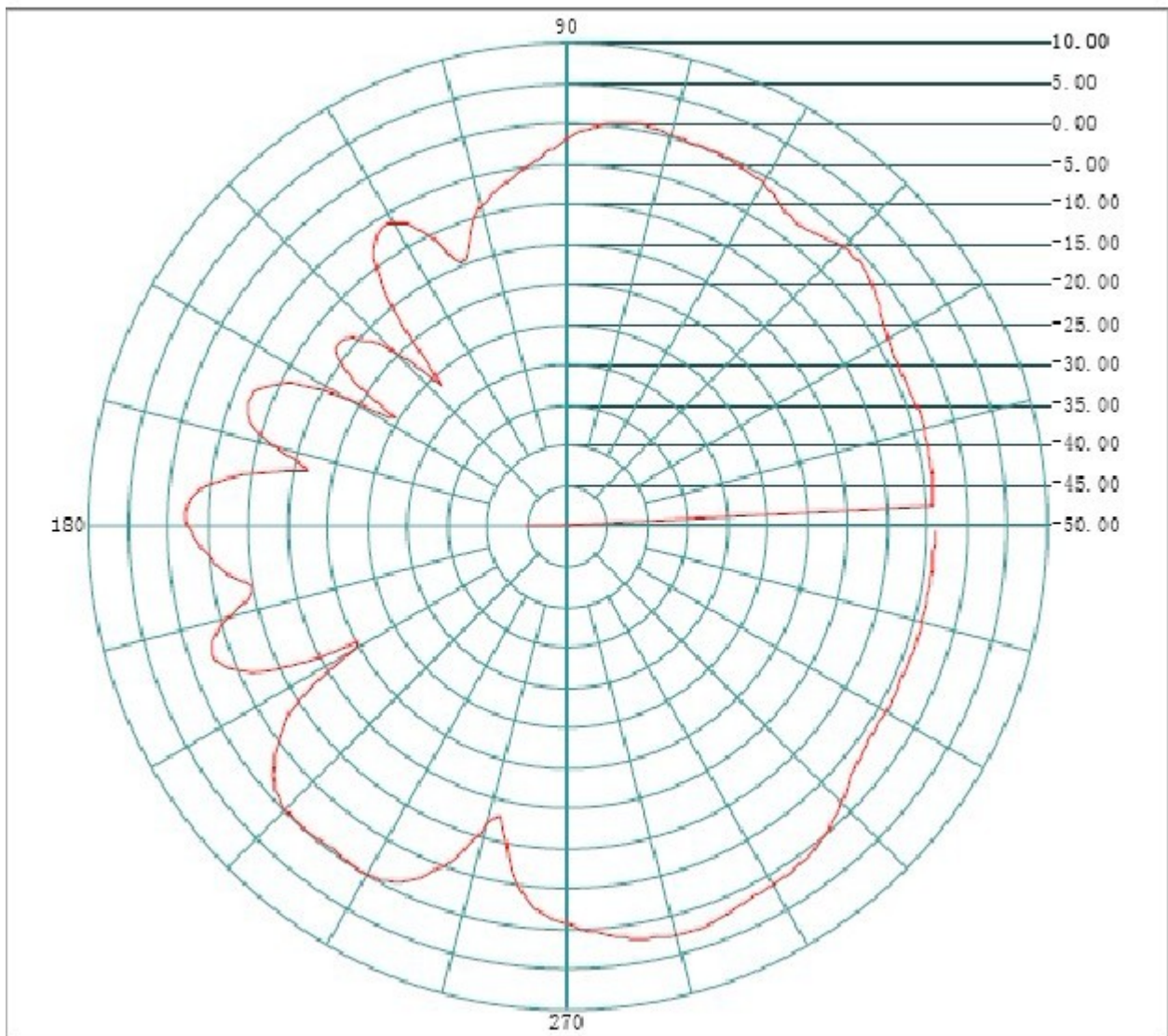
Trademark:

 鑫满达电路 (深圳) 有限公司
XMD XIN MAN DA CIRCUIT (SHENZHEN)CO.LTD.

Test Address	16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan
Test Date	2009-04-14
Test Instrument	vector network analyzer - R&S ZVB20

1. Main antenna : 2402 MHz

1.1 Horizontal



Frequency(MHZ): **2402**

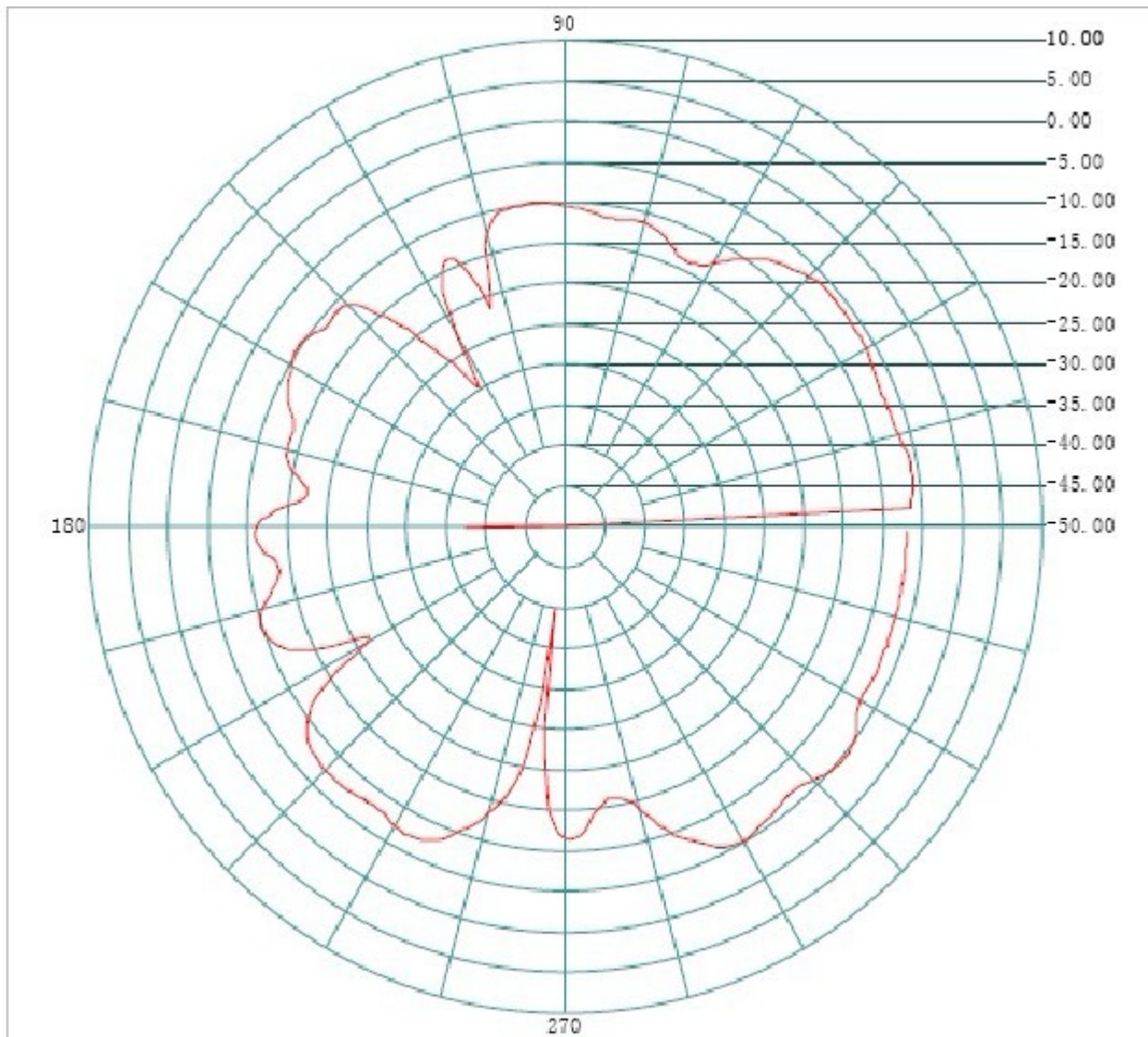
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **1.59**

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

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

1.2 Vertical



Frequency(MHZ): **2402**

Antenna Polarity: **Vertical**

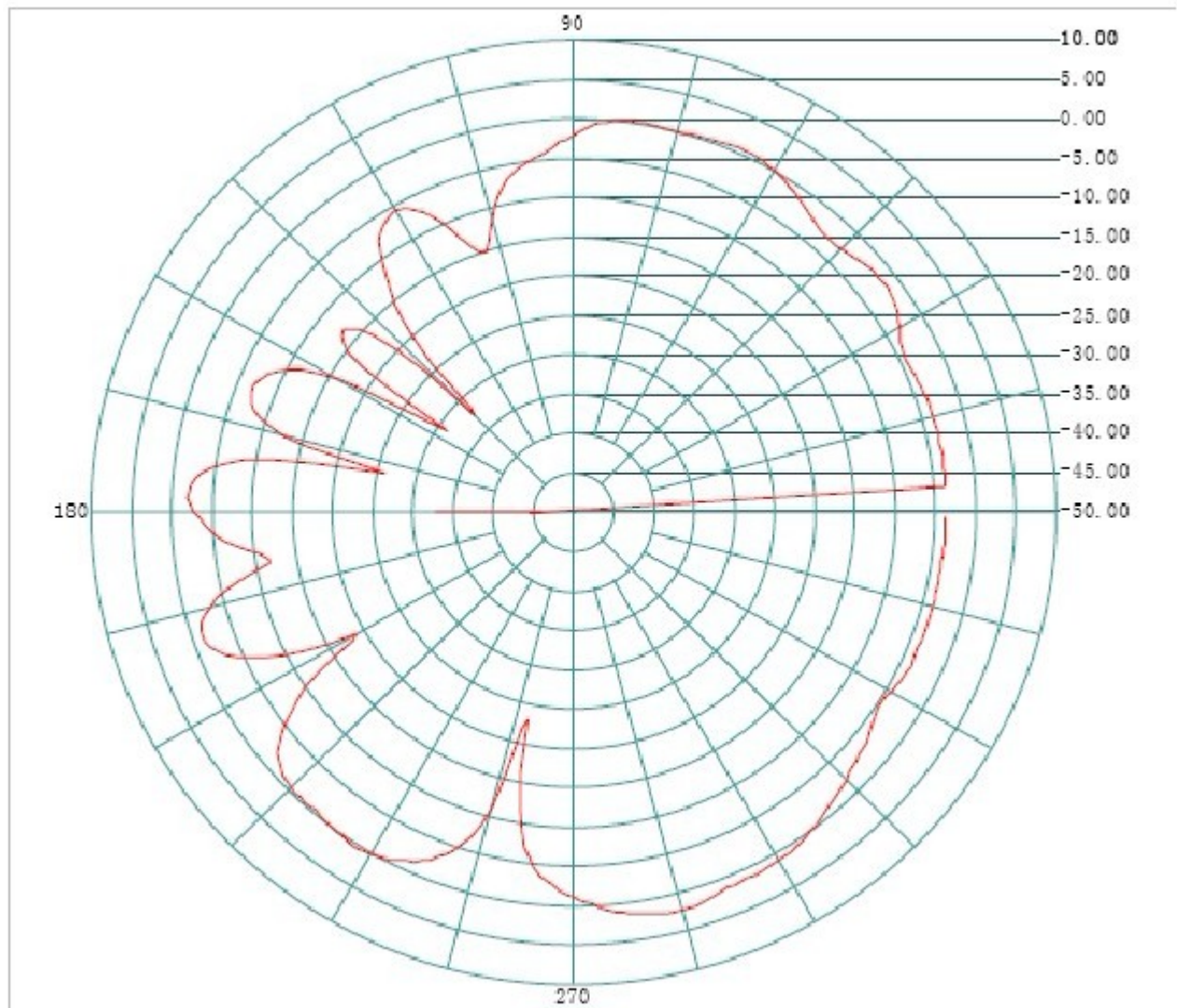
Maximum Gain(dBi): **-4.51**

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

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

2. Main antenna : 2441 MHz

2.1 Horizontal



Frequency(MHZ): **2441**

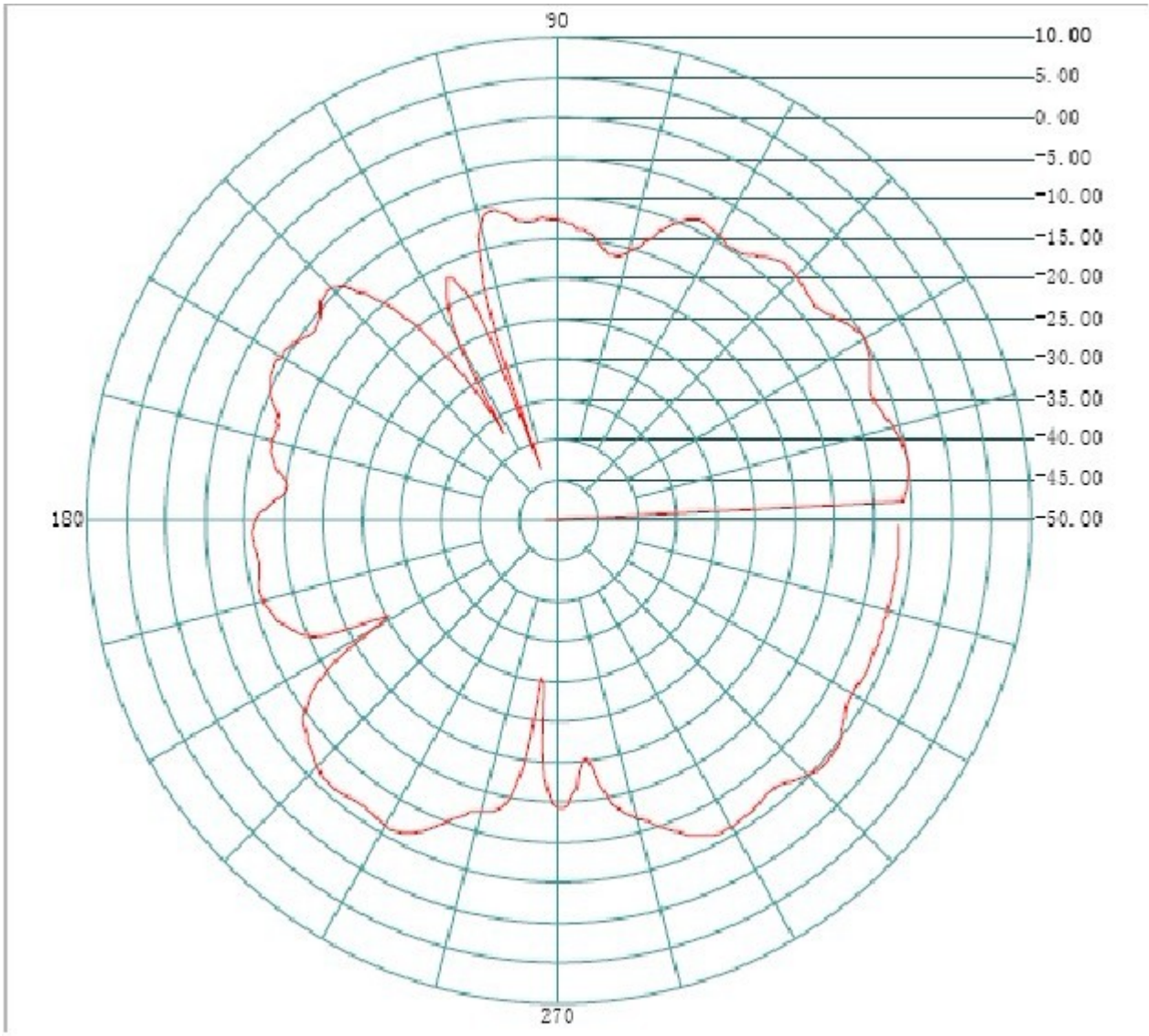
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **1.07**

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

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

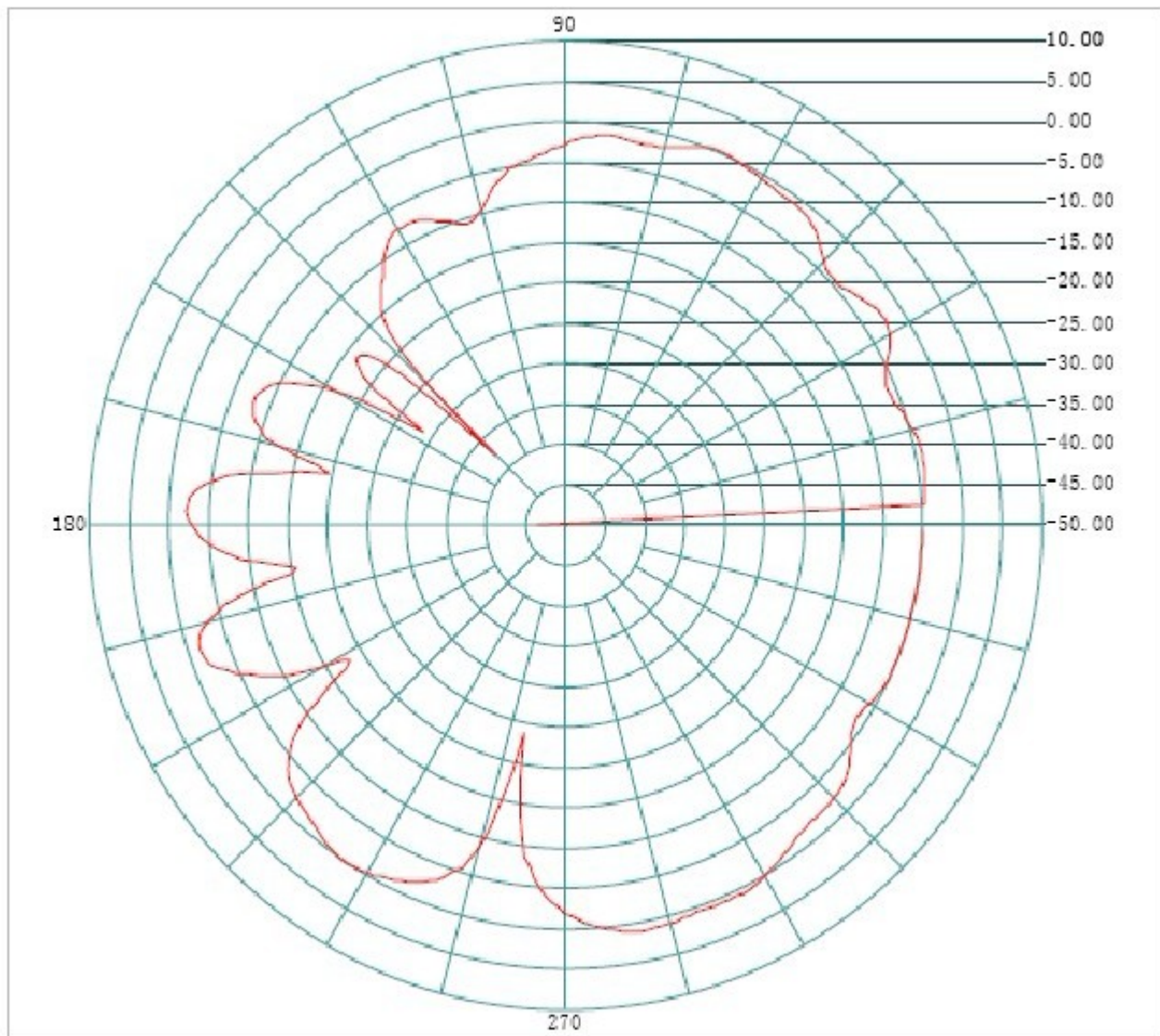
2.2 Vertical



Frequency(MHZ):	2441	Antenna Polarity:	Vertical
Maximum Gain(dBi):	-4.29		
Average Gain(dBi) :	-8.81		
Minimum Gain(dBi):	-51.4		

2. Main antenna : 2480 MHz

2.1 Horizontal



Frequency(MHZ): **2480**

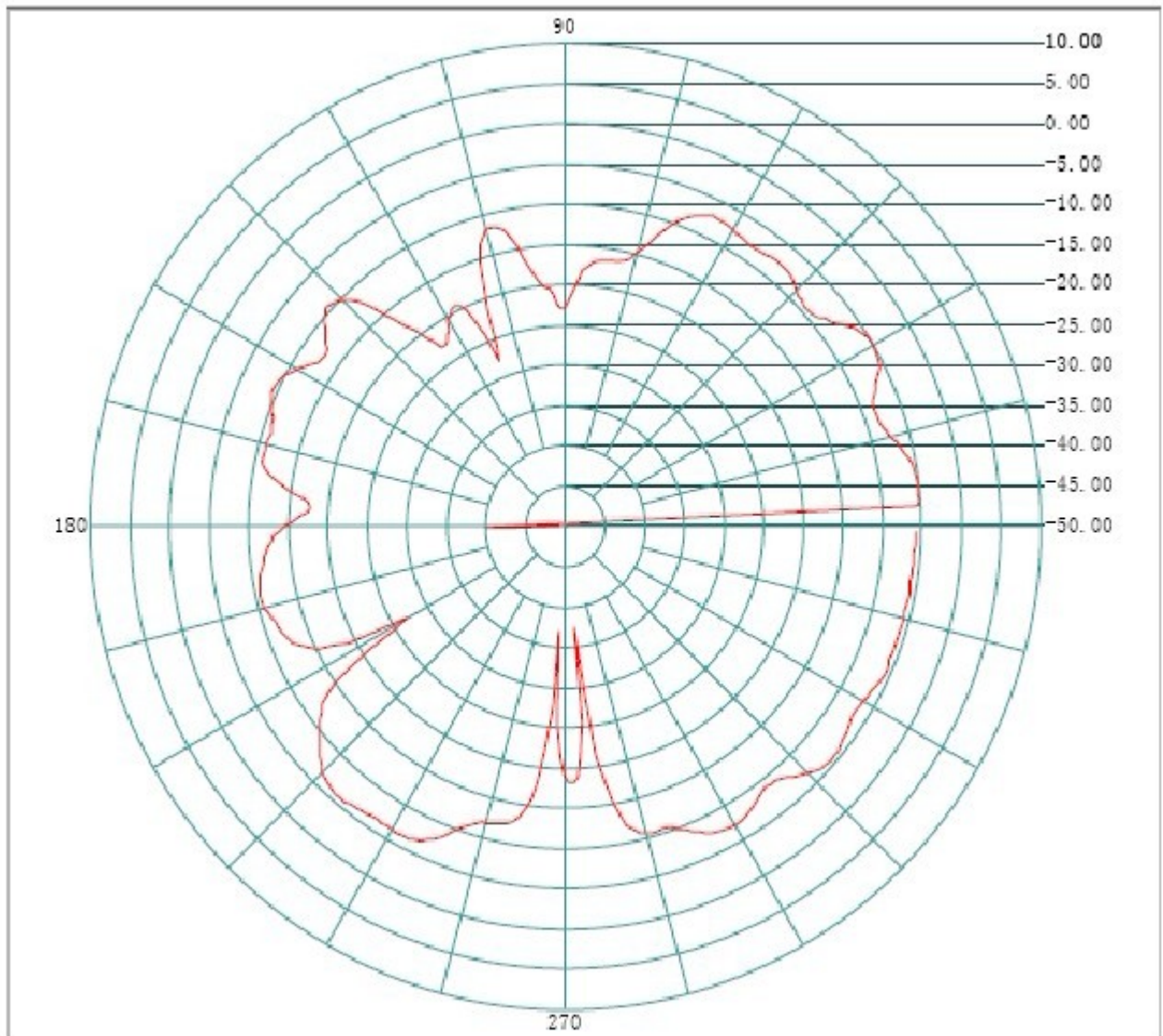
Antenna Polarity: **Horizontal**

Maximum Gain(dBi): **1.45**

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

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

2.2 Vertical



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

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

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

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