

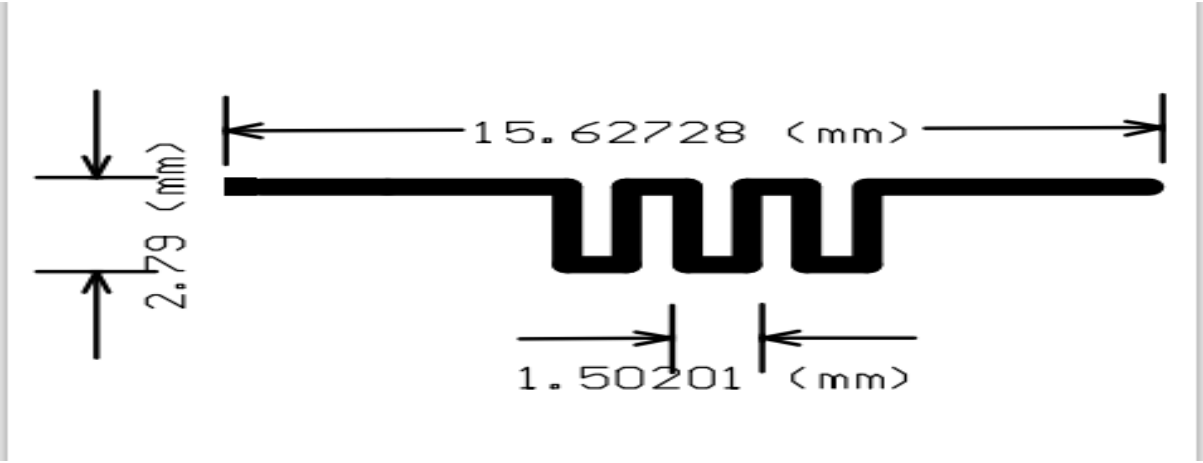
Antenna Specification

Specifications

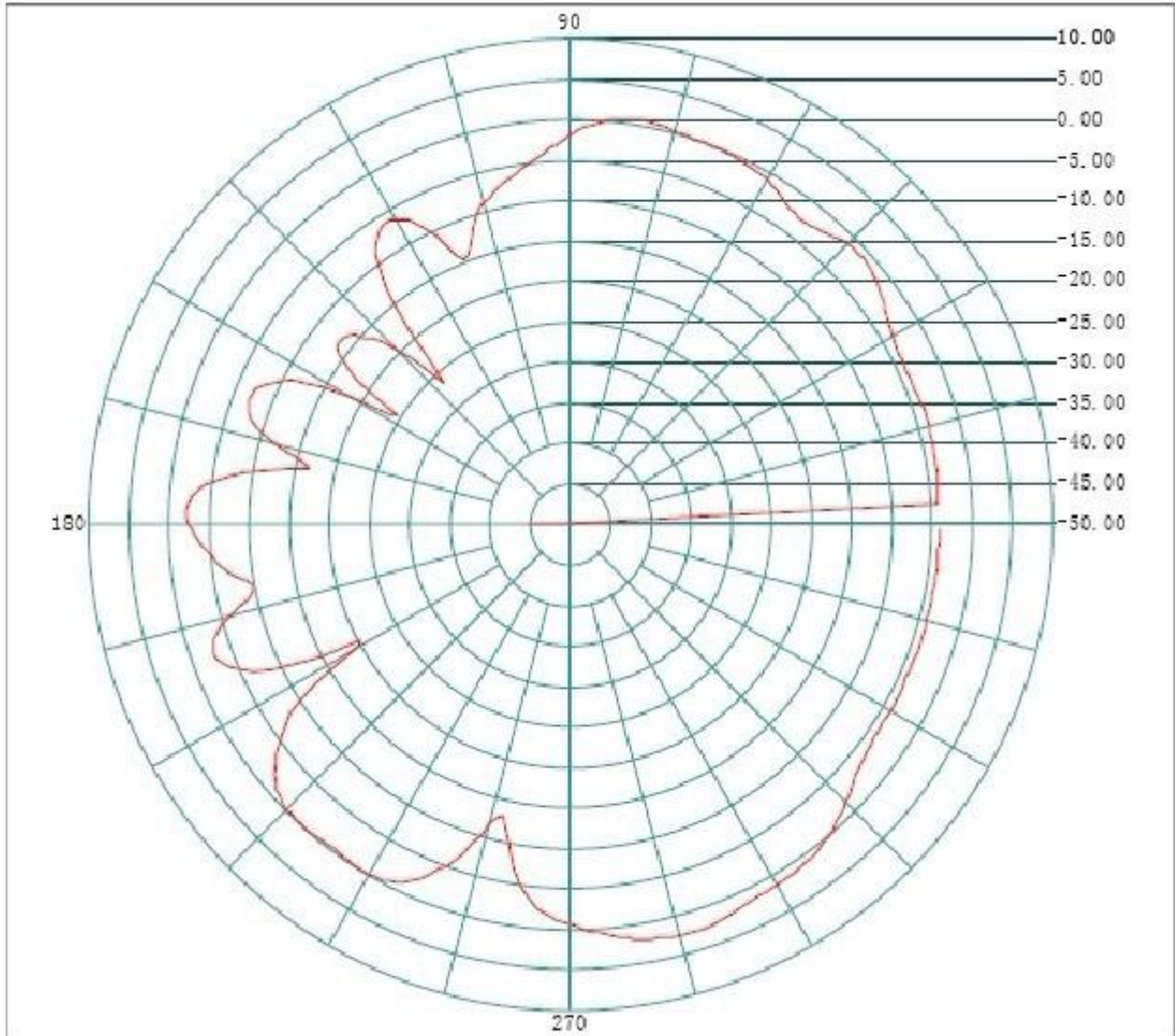
Summary

ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Center Frequency	2402 MHz 2441 MHz 2480 MHz	2.34 dBi 2.07 dBi 1.45 dBi
MAX. GAIN	2.34 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Antenna Length	3.1 cm	
Manufacturer	Shenzhen Hangshi Electronic Technology Co., Ltd.	

Antenna Photo & Length (mm)



Test Address	16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303 , Taiwan
--------------	--

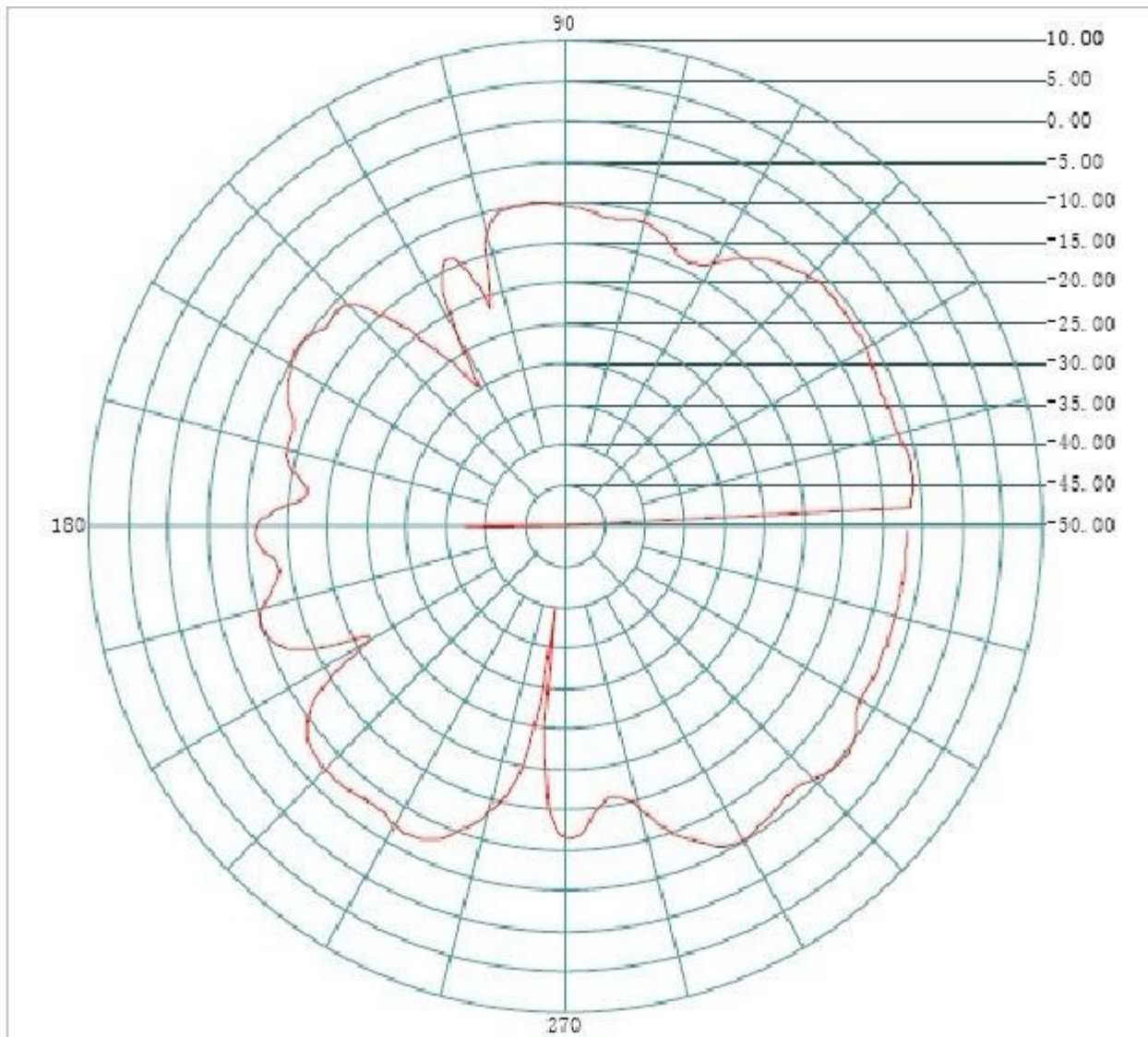


Test Date	2024-8-15
Test Instrument	vector network analyzer - R&S ZVB20

1. Main antenna : 2402 MHz

1.1 Horizontal

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



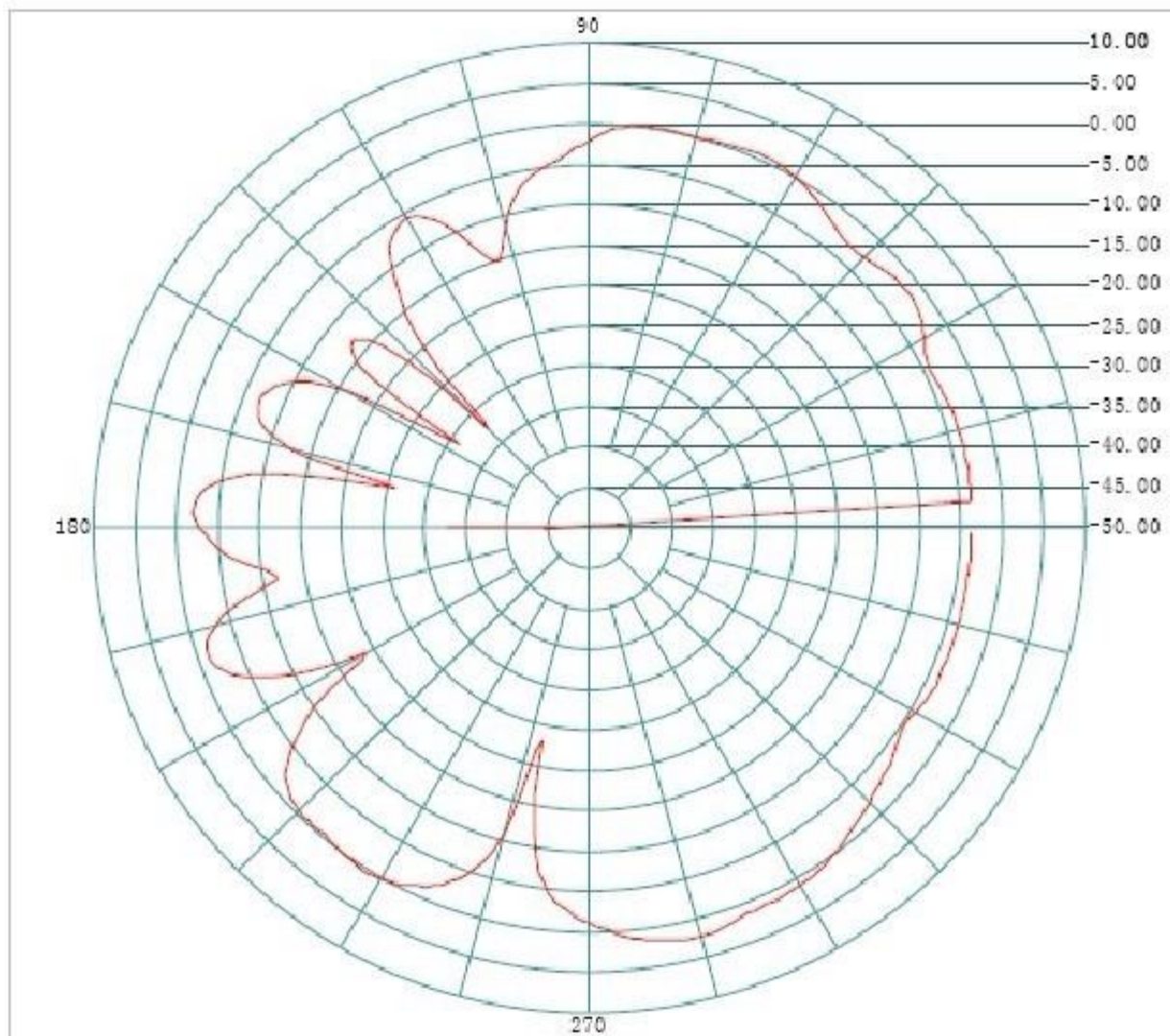
Maximum Value(dBi): **2.34**

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

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

1.2 Vertical

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



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

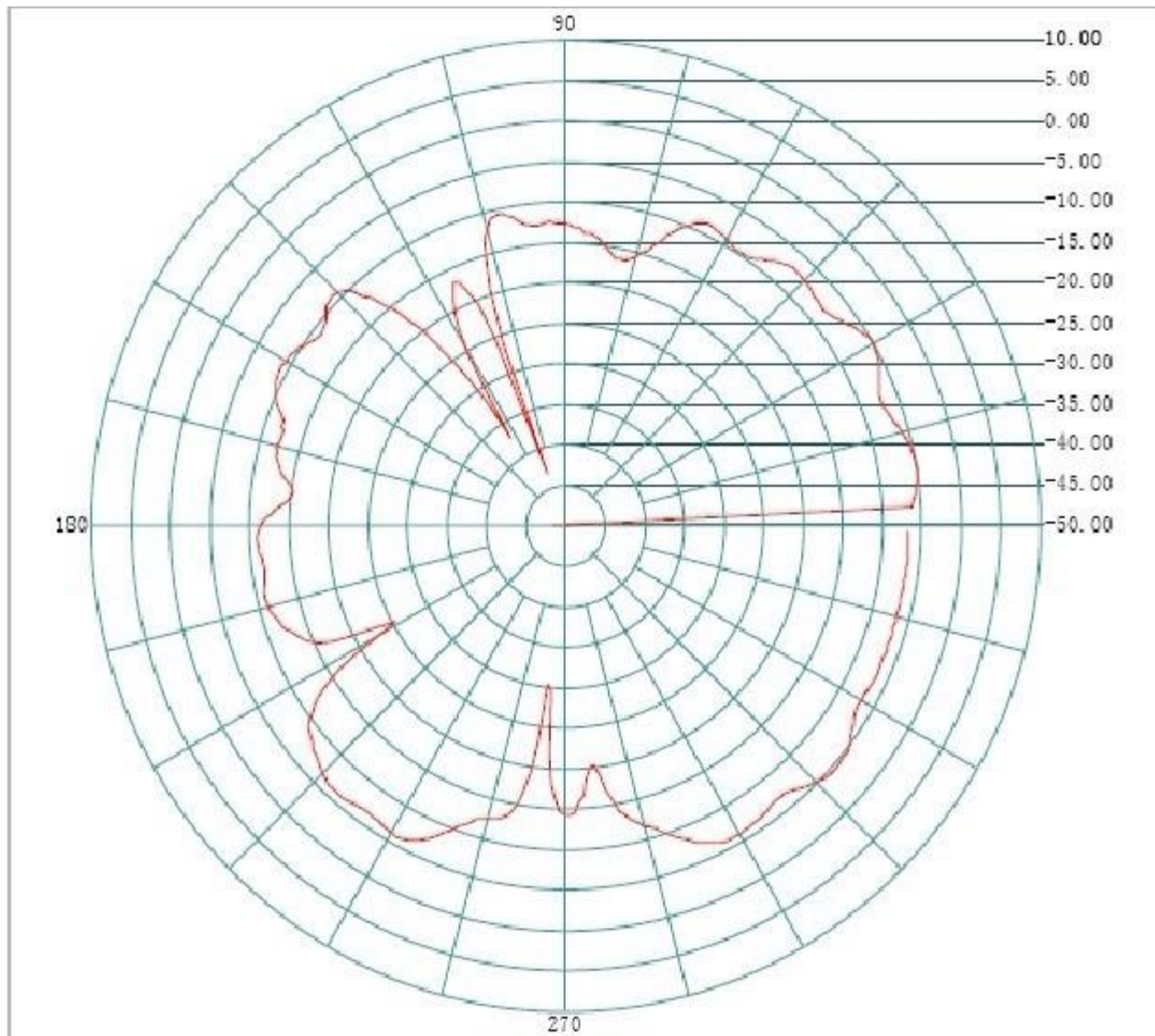
Average Gain(dBi) : **-8.98**

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

2. Main antenna : 2441 MHz

2.1 Horizontal

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



Maximum Value(dBi): 2.07

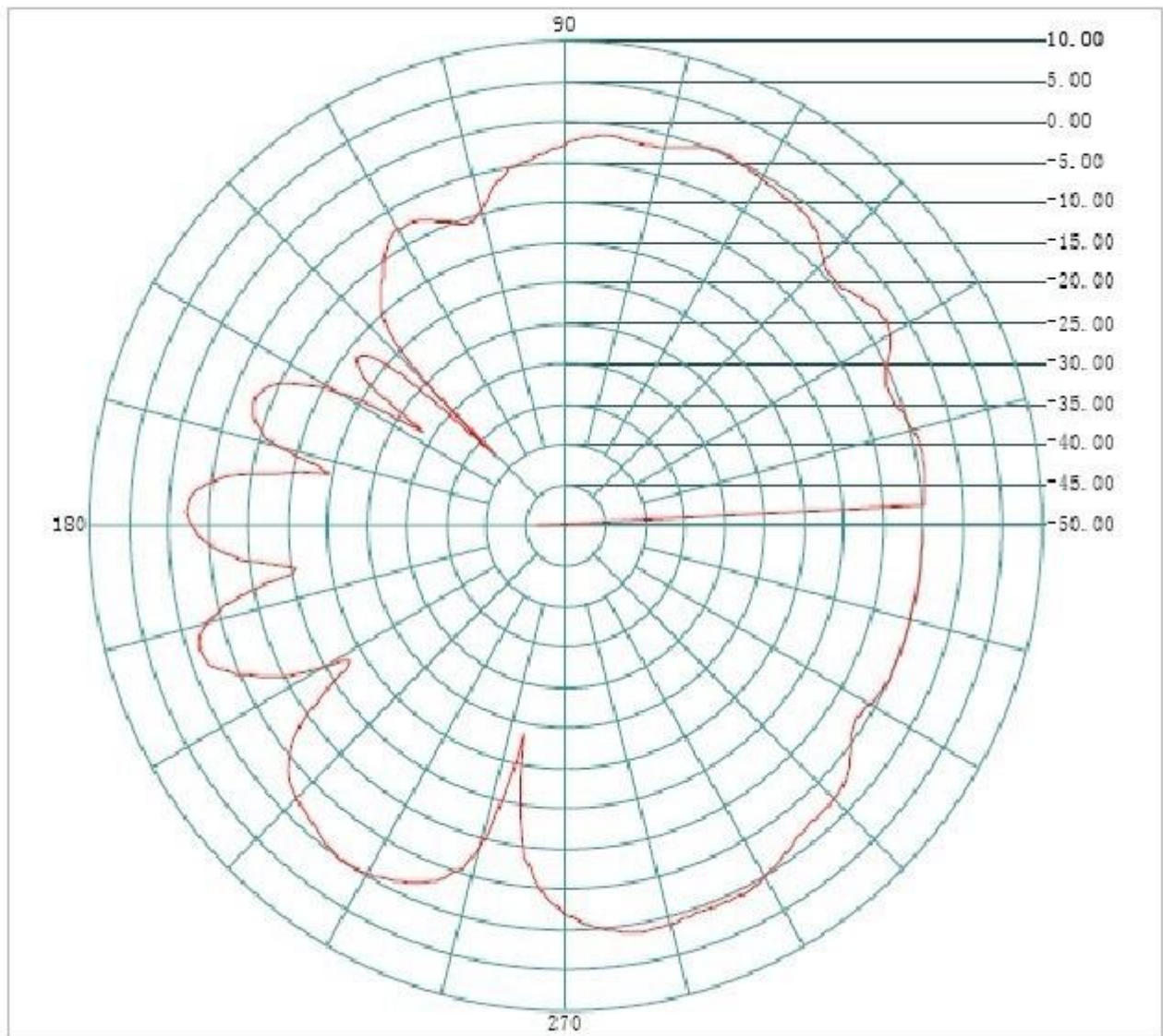
Average Gain(dBi) : -2.54

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**

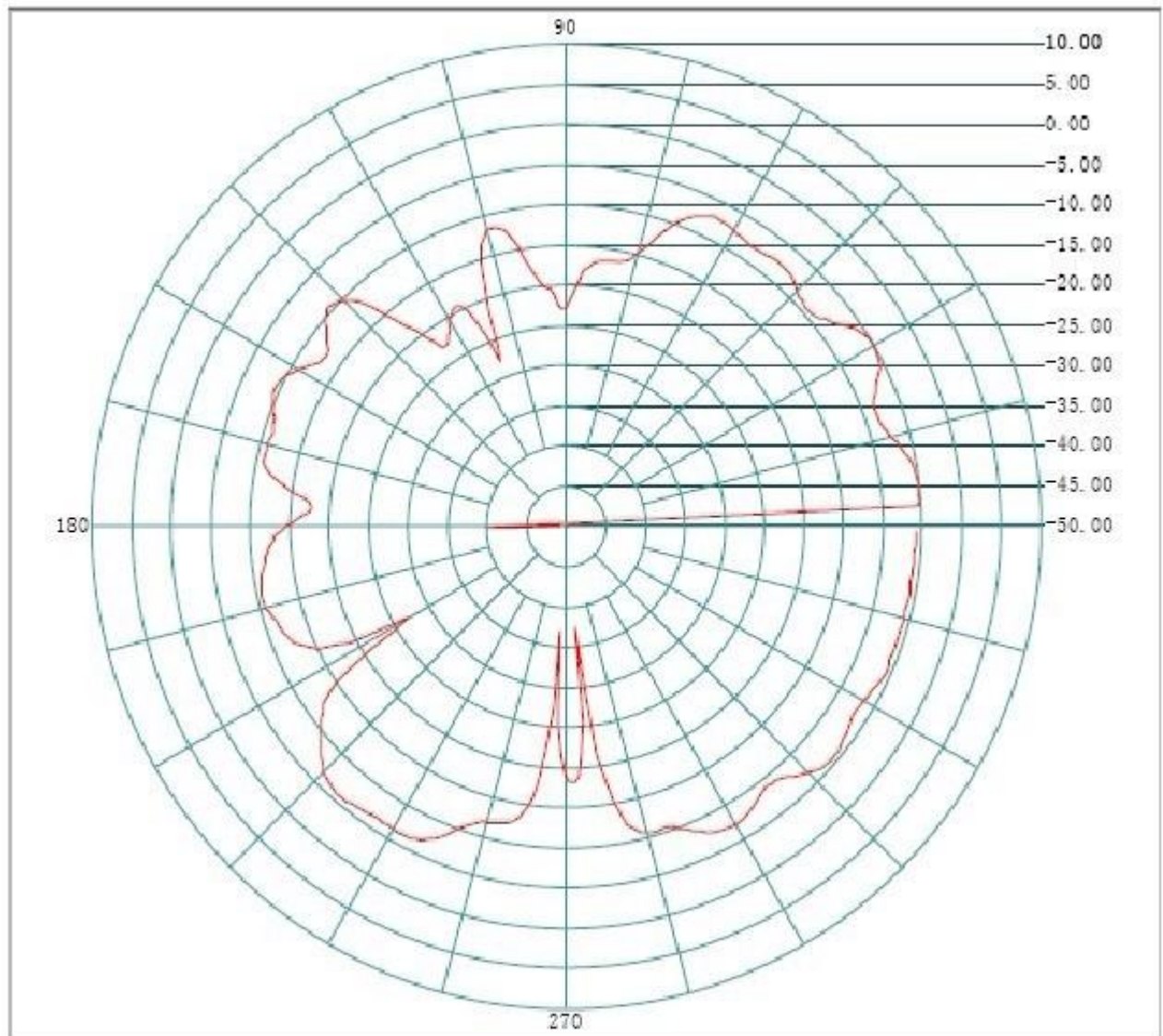
2. Main antenna : 2480 MHz

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**