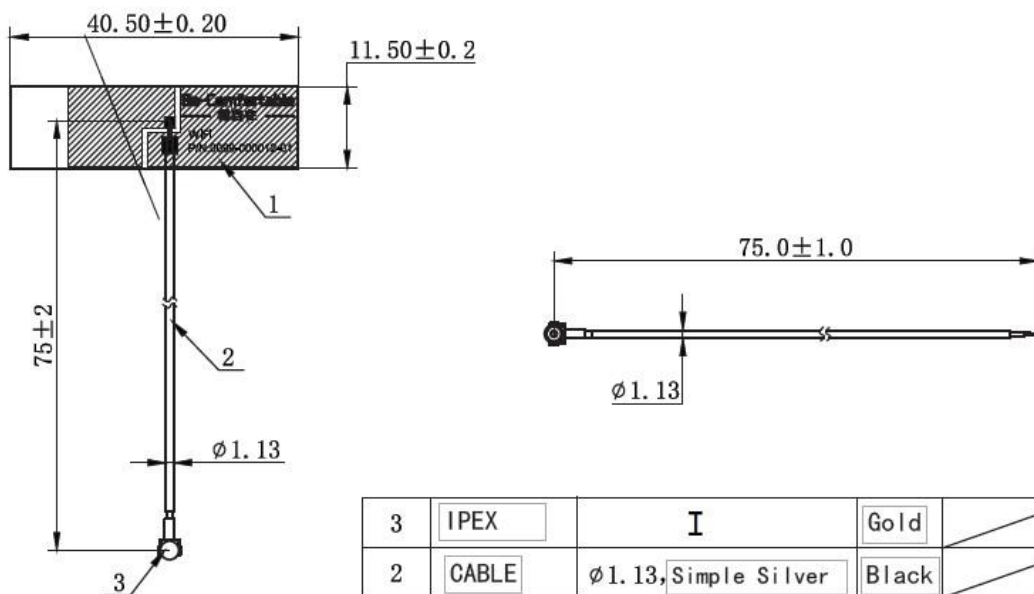


Antenna Specification

Specifications Summary

ITEM	SPEC.
Model Name	IBM 2.4 GHz
Center Frequency	2402MHz : 2.1dBi
	2441MHz : 2.41dBi
	2480MHz : 2.45dBi
MAX. GAIN	2.5dBi
Polarization	Horizontal
Azimuth Beam Pattern	Omni-directional
Impedance	50 Ω
Antenna Length	7.5cm

Antenna Photo & Length (mm)

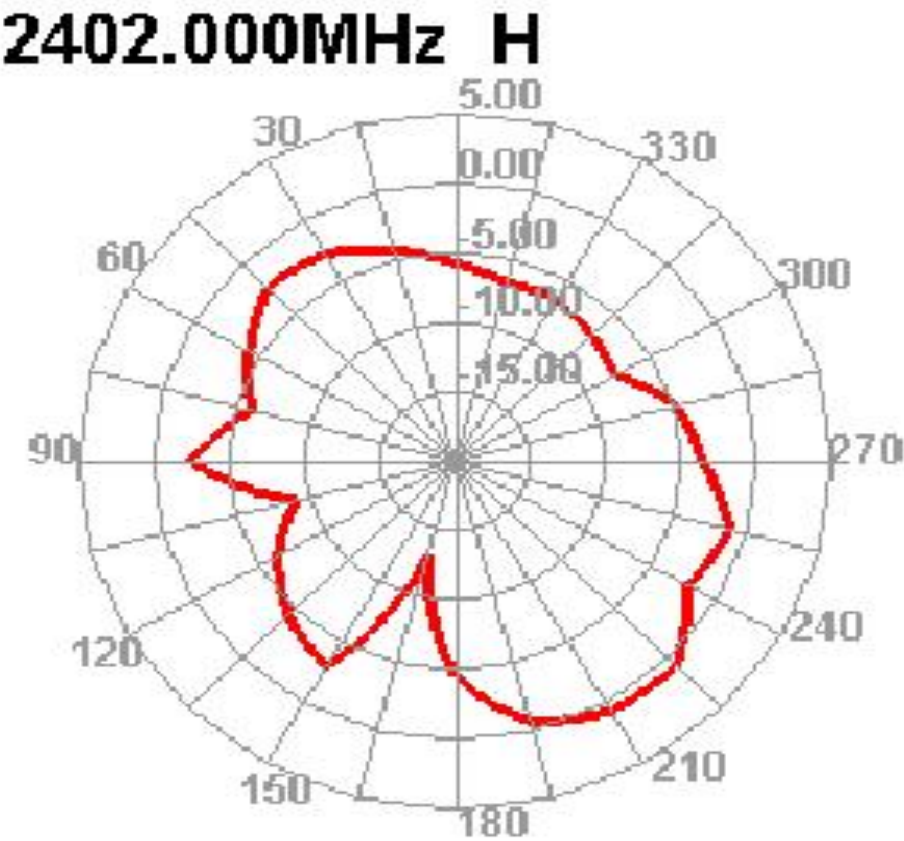


3	IPEX	I	Gold		1	
2	CABLE	$\phi 1.13$, Simple Silver	Black		1	L=75mm
1	FPC	PI, Electrolytic copper	Black		1	
No.	Name	Material	Color	Treatment	Amount	Remark

Test Address	Shenzhen South Star Technology CO.,Ltd.
Test Date	2022-08-31
Test Instrument	vector network analyzer - P5001A

1. Main antenna : 2402 MHz

1.1 Horizontal



Frequency(MHZ): 2402 Antenna Polarity: Horizontal

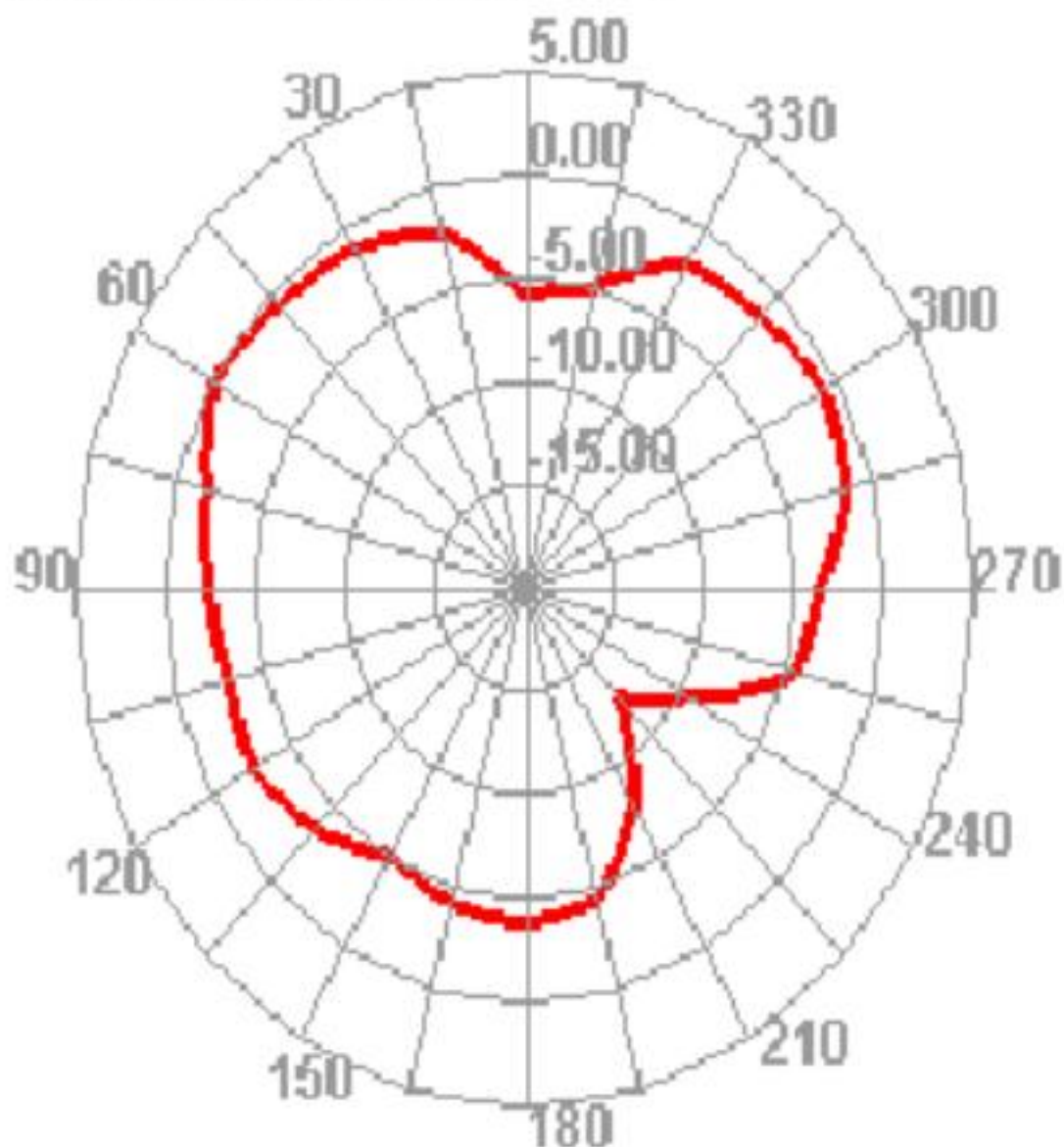
Maximum Value(dBi): -0.48

Average Gain(dBi) : -7.9

Minimum Gain(dBi): -28.53

1.2 Vertical

2402.000MHz E2



Maximum Value(dBi): 1.22

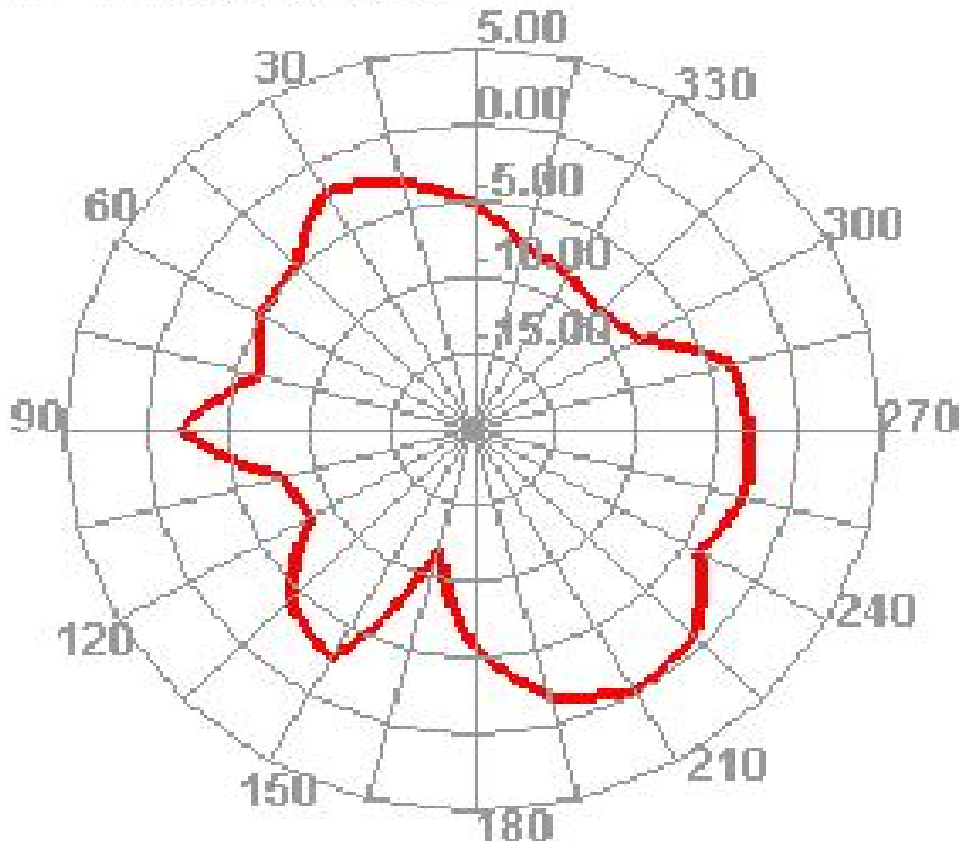
Average Gain(dBi) : -8.48

Minimum Gain(dBi): -28.16

2. Main antenna : 2441 MHz

2.1 Horizontal

2441.000MHz H



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

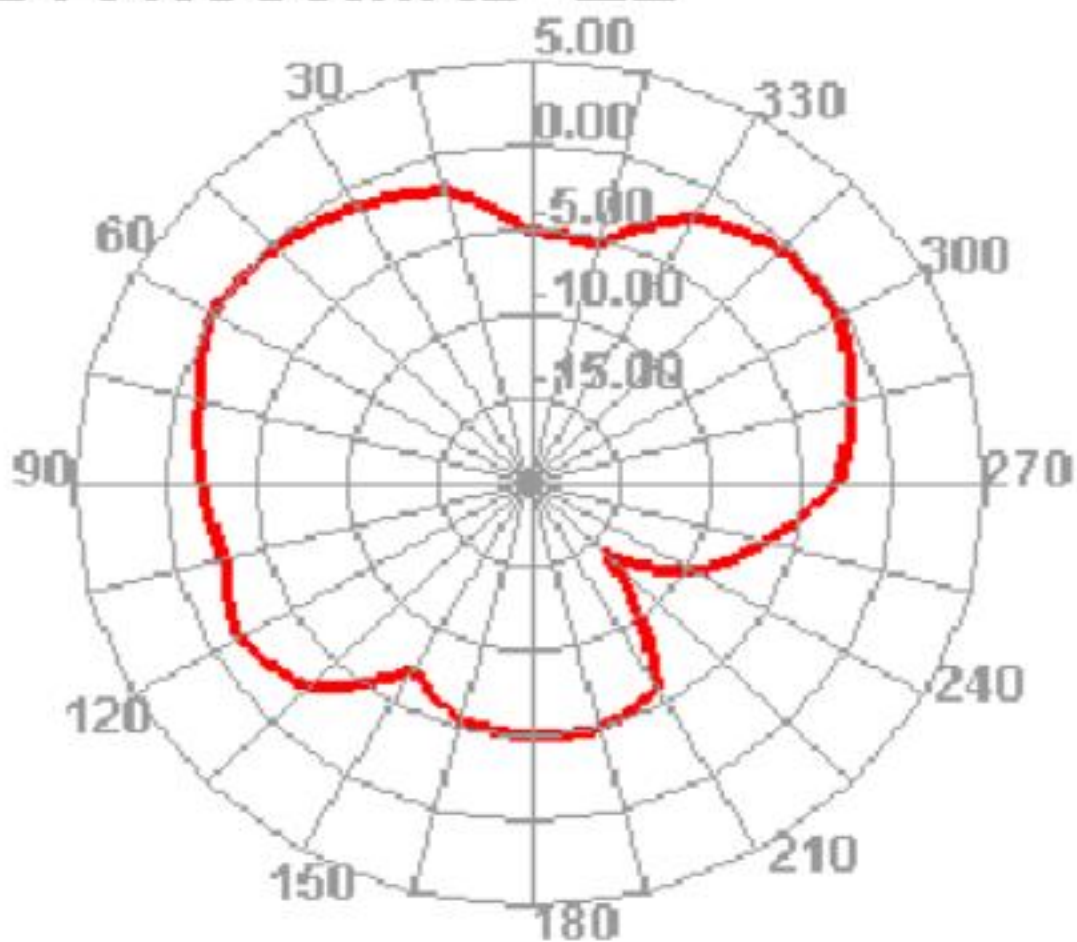
Maximum Value(dBi): **-0.77**

Average Gain(dBi) : **--16.41**

Minimum Gain(dBi): **-28.8**

2.2 Vertical

2441.000MHz E2



Frequency(MHZ): **2441**

Antenna Polarity: **Vertical**

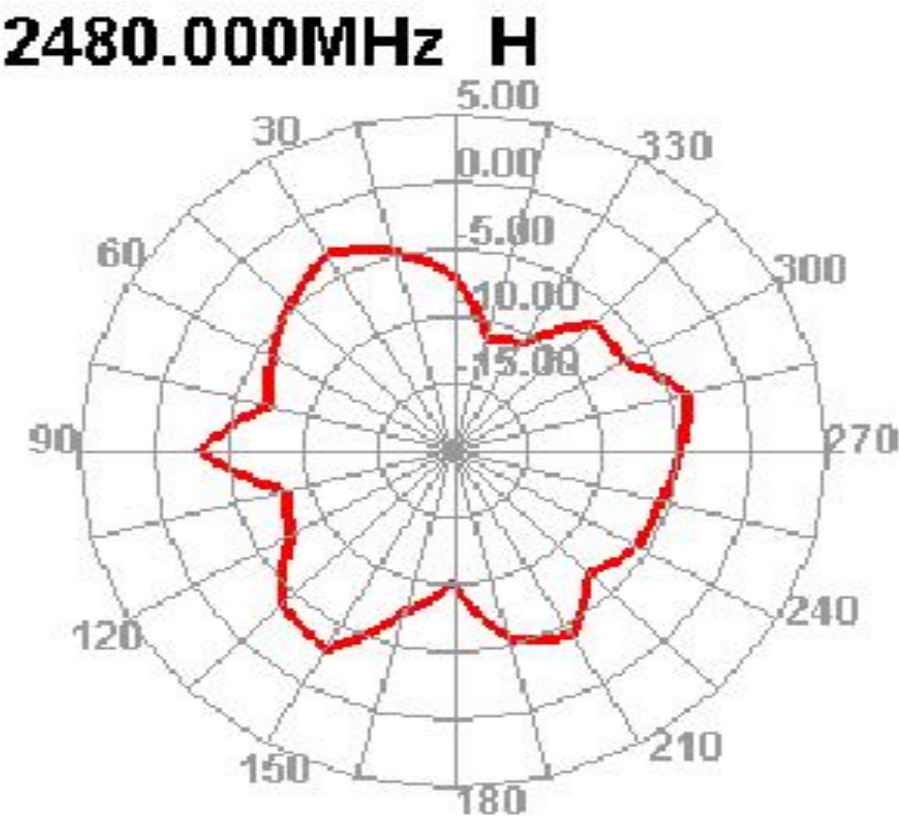
Maximum Value(dBi): **1.1**

Average Gain(dBi) : **--16.9**

Minimum Gain(dBi): **-25.44**

2. Main antenna :

2480MHz 2.1 Horizontal



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

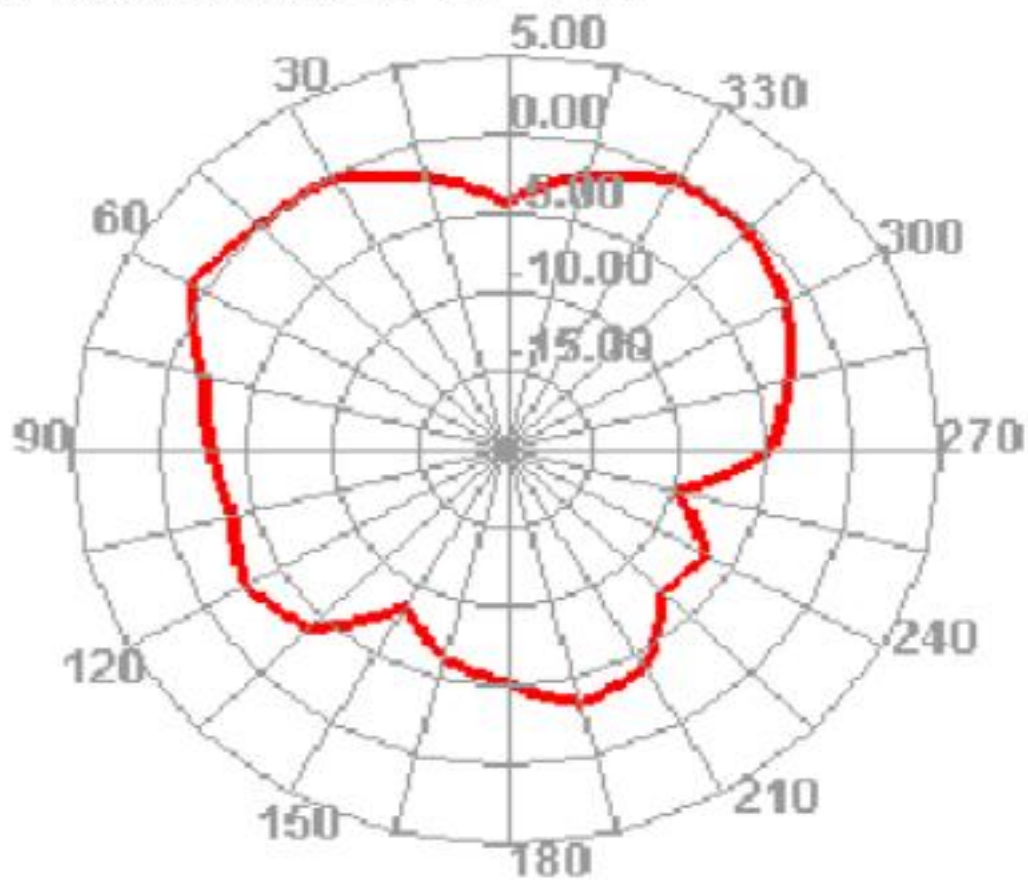
Maximum Value(dBi): **-0.46**

Average Gain(dBi) : **-9.39**

Minimum Gain(dBi): **-30.51**

2.2 Vertical

2480.000MHz E2



Frequency(MHZ): **2441**

Antenna Polarity: **Vertical**

Maximum Value(dBi): **1.26**

Average Gain(dBi) : **-4.82**

Minimum Gain(dBi): **-15.04**