

# Inverted F Antenna Specification

**MANUFACTURE** : SHANGHAI MOUNTAIN VIEW SILICON CO.,. LTD  
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Shanghai, 201203,People's Republic of China  
**PRODUCT NAME** : MV\_BP10xx PCB Antenna  
**DATE** : 2019-10-30  
**ANTENNA MODEL** : 2.4GHz Antenna

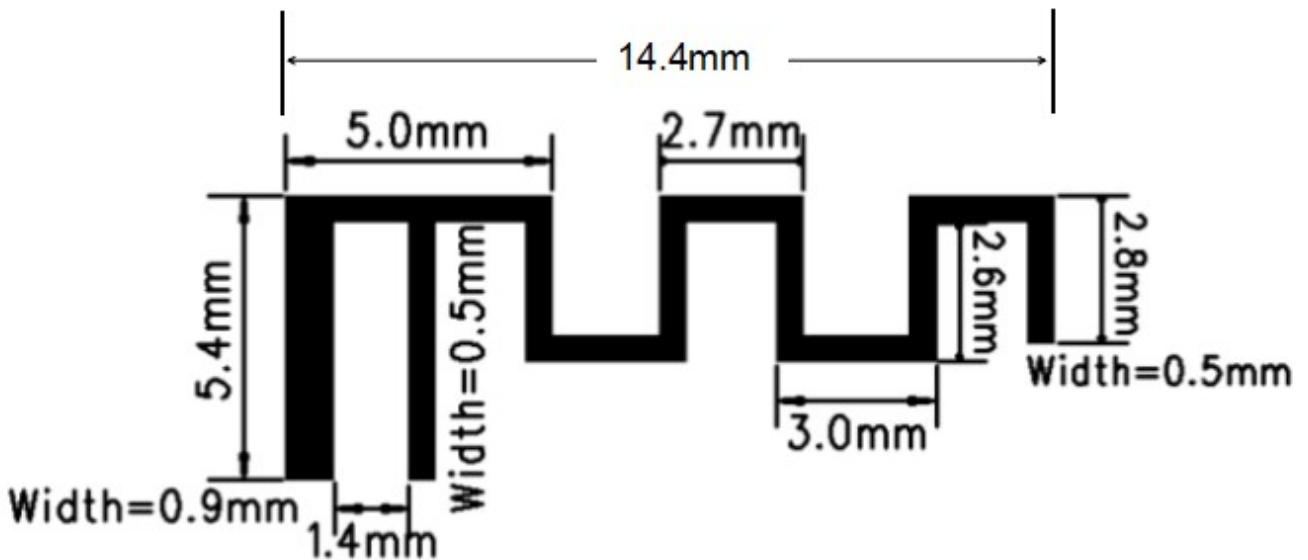
## 1. Antenna describe

Antenna plate: Inverted F Antenna

Frequency range: 2.4GHz-2.48GHz

ITEM Name	Inverted F Antenna Specification
Model Name	2.4GHz Antenna
Polarization	Horizontal and Vertical
Azimuth Beam Patten	Omni-directional
Impedance	50 Ohm
Antenna Lengh	14.4mm
Gain(Max)	2.81(±1 dBi)

## 2. Antenna Photo& Lengh (mm)



Actual Size

### 3. Gain

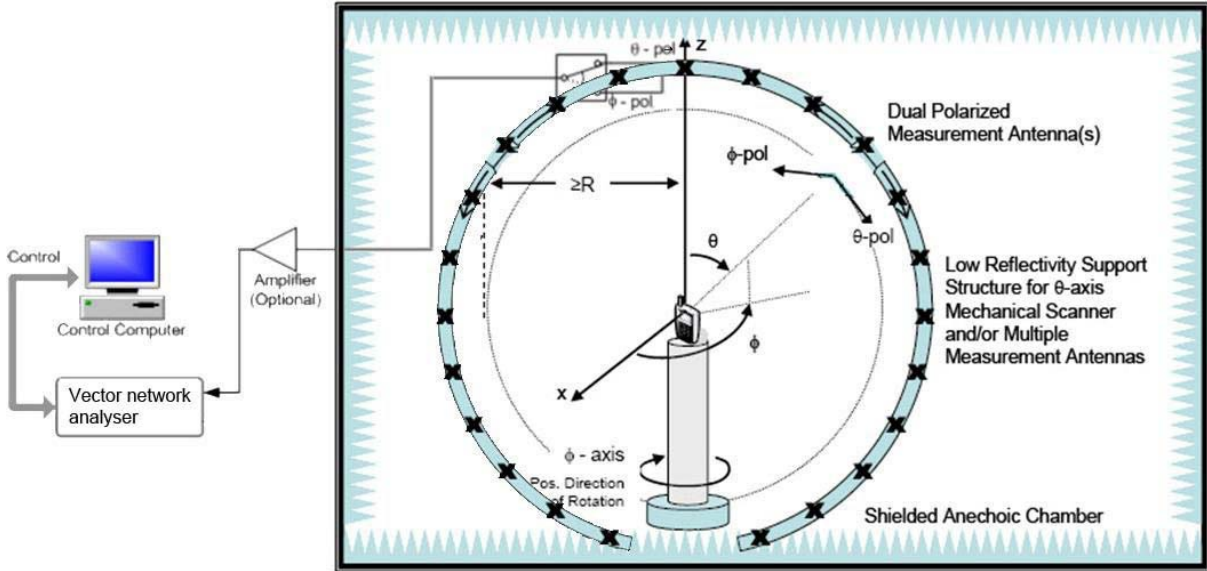
<b>Frequency</b>	<b>Gain (dBi)</b>
2400MHz	2.81
2410MHz	2.74
2420MHz	2.70
2430MHz	2.73
2440MHz	1.01
2450MHz	1.26
2460MHz	1.50
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33

### 4. Return Loss/VSWR/Input Impedance

<b>Frequency</b>	<b>Return Loss (dB)</b>	<b>VSWR</b>	<b>Input Impedance(<math>\Omega</math>)</b>
2400MHz	-7.23	2.53	25.37
2400MHz	-6.47	2.80	17.99
2450MHz	-6.22	2.90	17.18
2480MHz	-5.18	3.44	15.55
2500MHz	-4.56	3.89	15.48

## Annex A Photographs

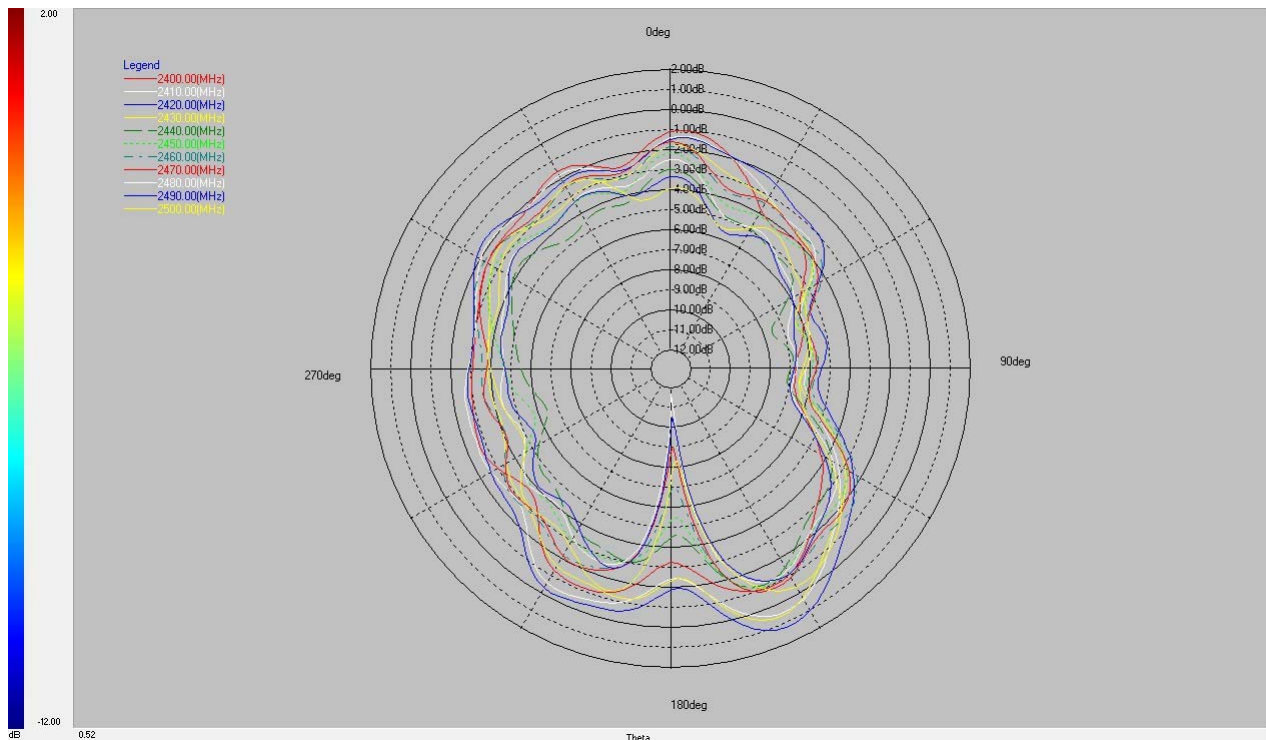
### 1. Test Setup



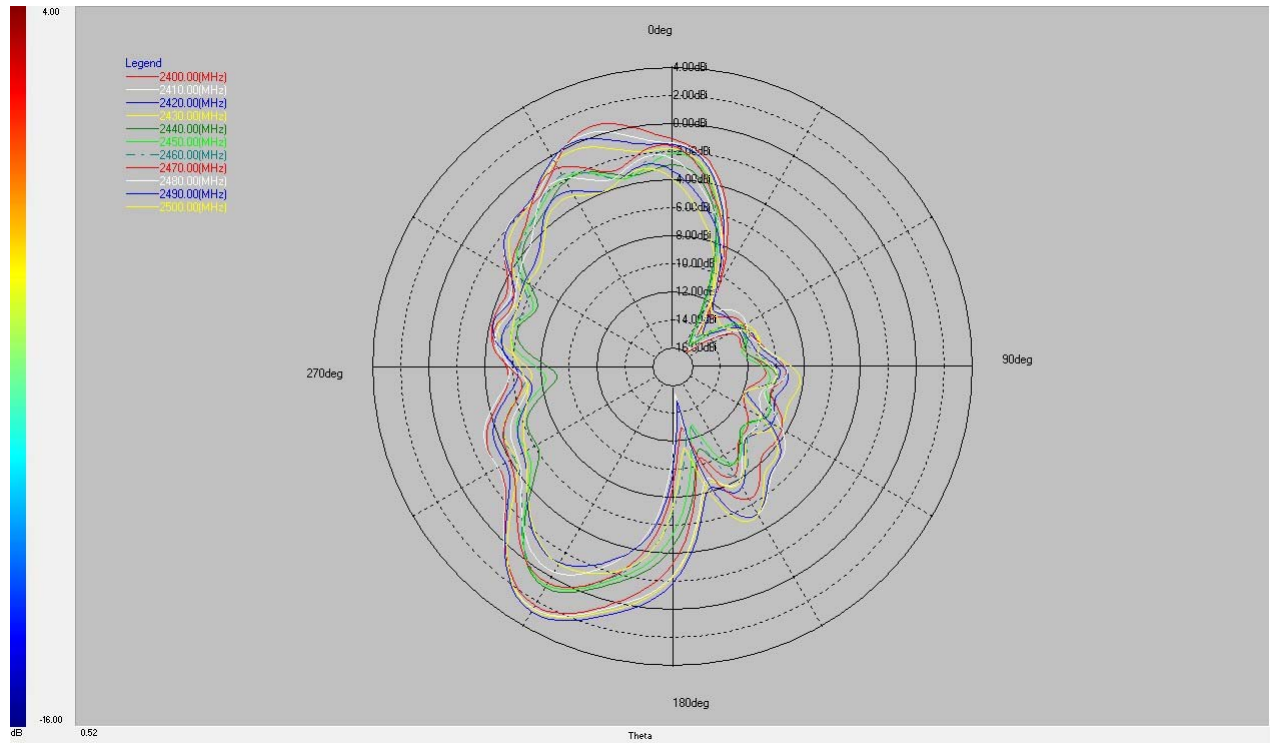
## Annex B Figures

### 1. 2D Radiation Pattern

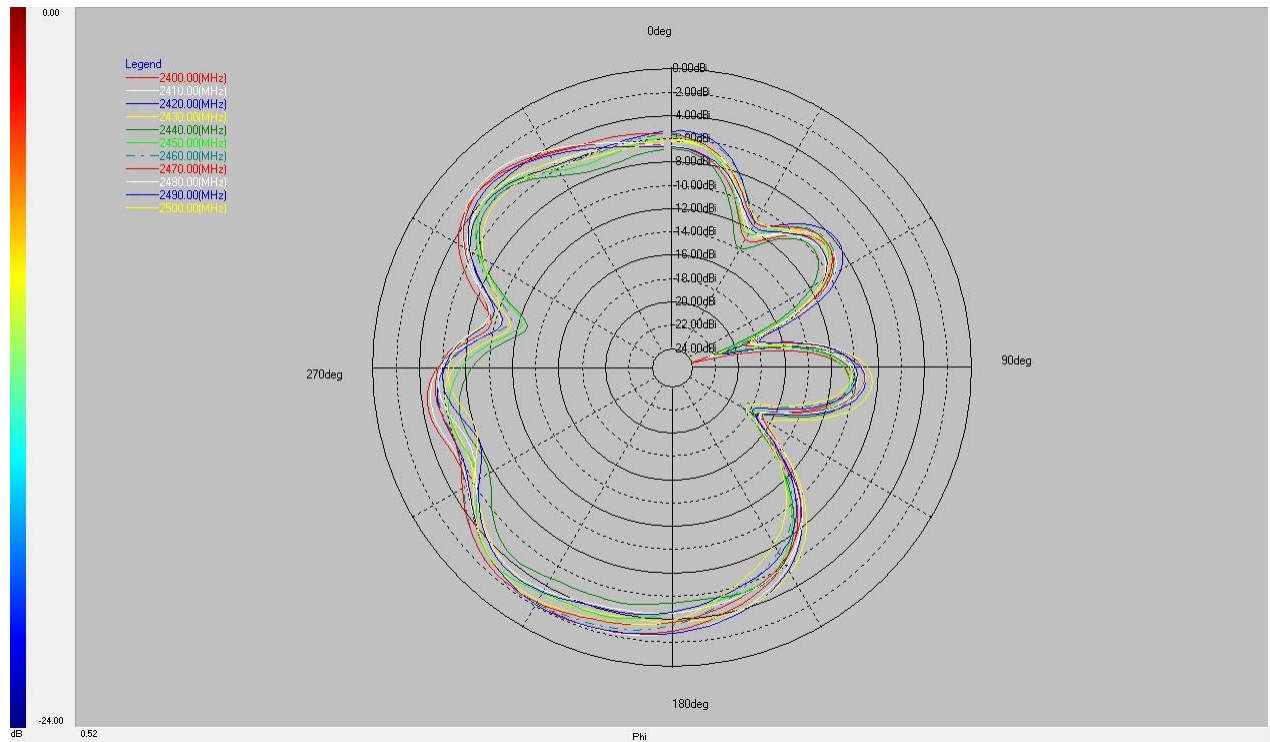
Phi=0°



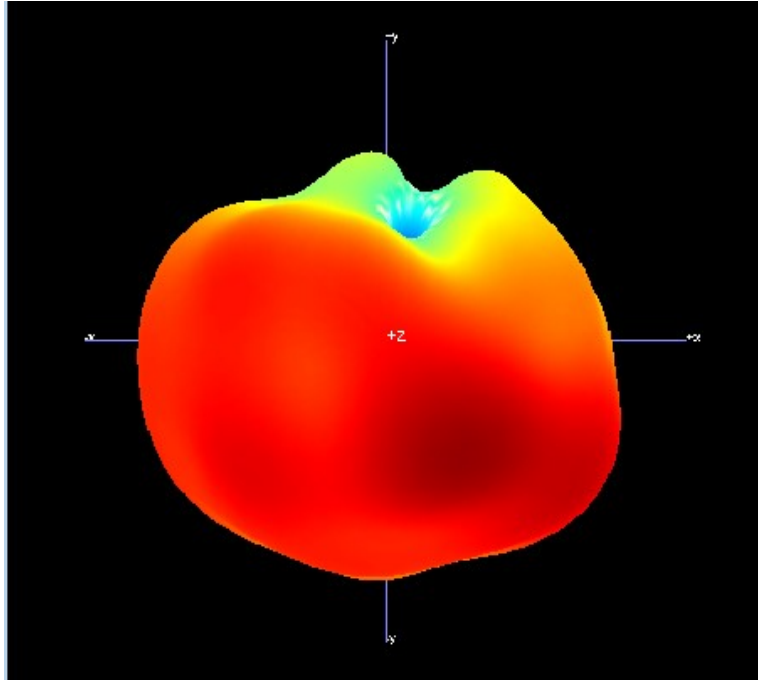
Phi=90°



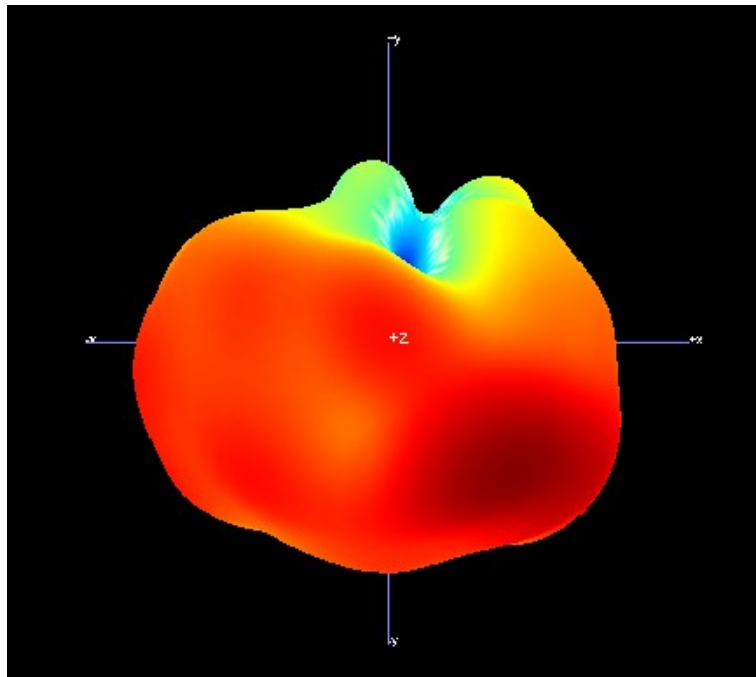
Theta=90°



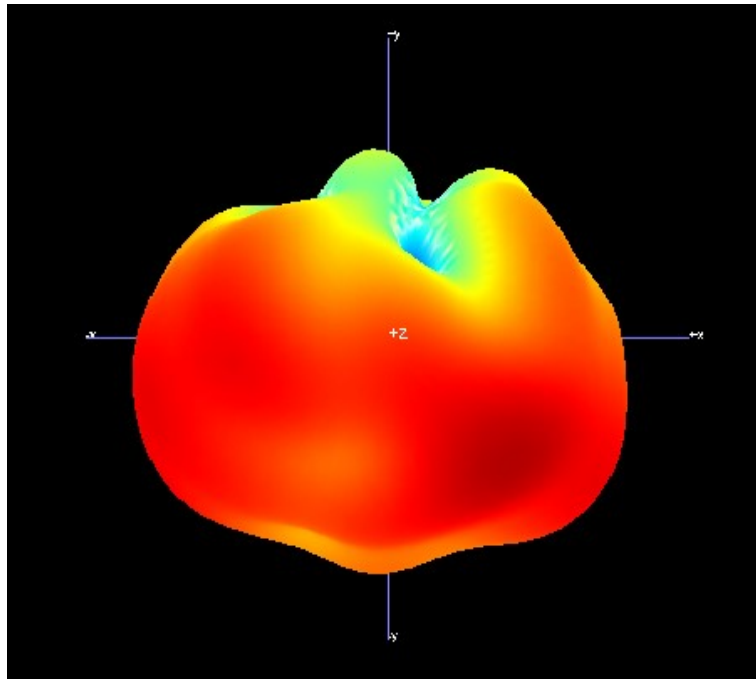
## 2. 3D Radiation Pattern



2400MHz



2450MHz



2500MH

### 3. Return Loss

