

Inverted F Antenna Specification

MANUFACTURE : SHANGHAI MOUNTAIN VIEW SILICON CO., LTD

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PRODUCT NAME : MV_BP10xx PCB Antenna

DATE : 2019-10-30

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



3. Gain

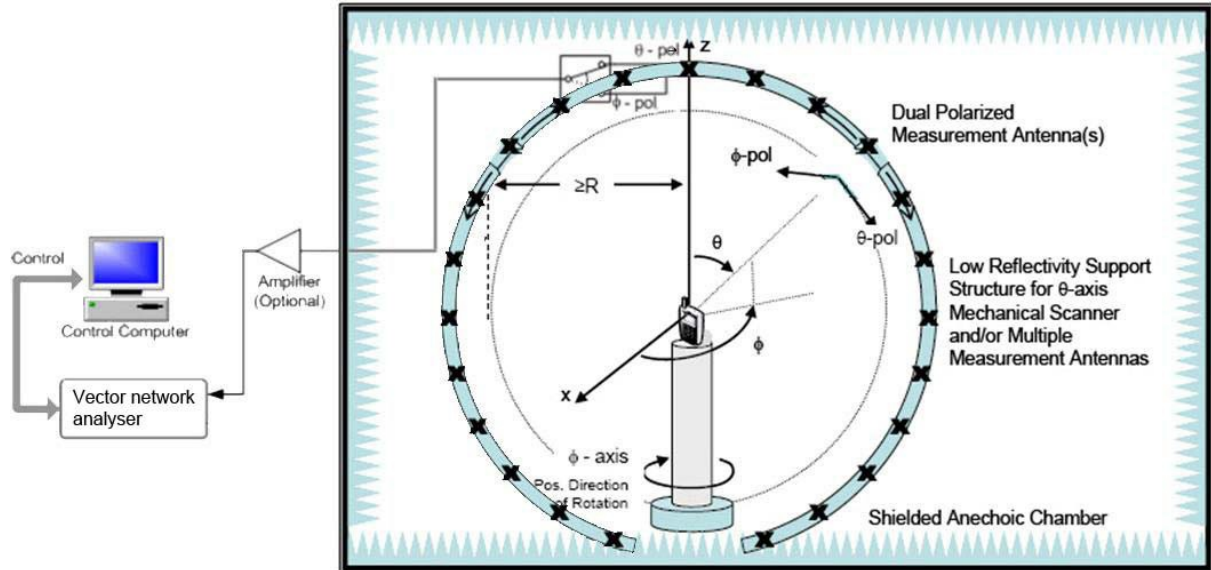
Frequency	Gain (dBi)
2400MHz	2.81
2410MHz	2.74
2420MHz	2.70
2430MHz	2.73
2440MHz	1.01
2450MHz	1.26
2460MHz	1.50
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33

4. Return Loss/VSWR/Input Impedance

Frequency	Return Loss (dB)	VSWR	Input Impedance(Ω)
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

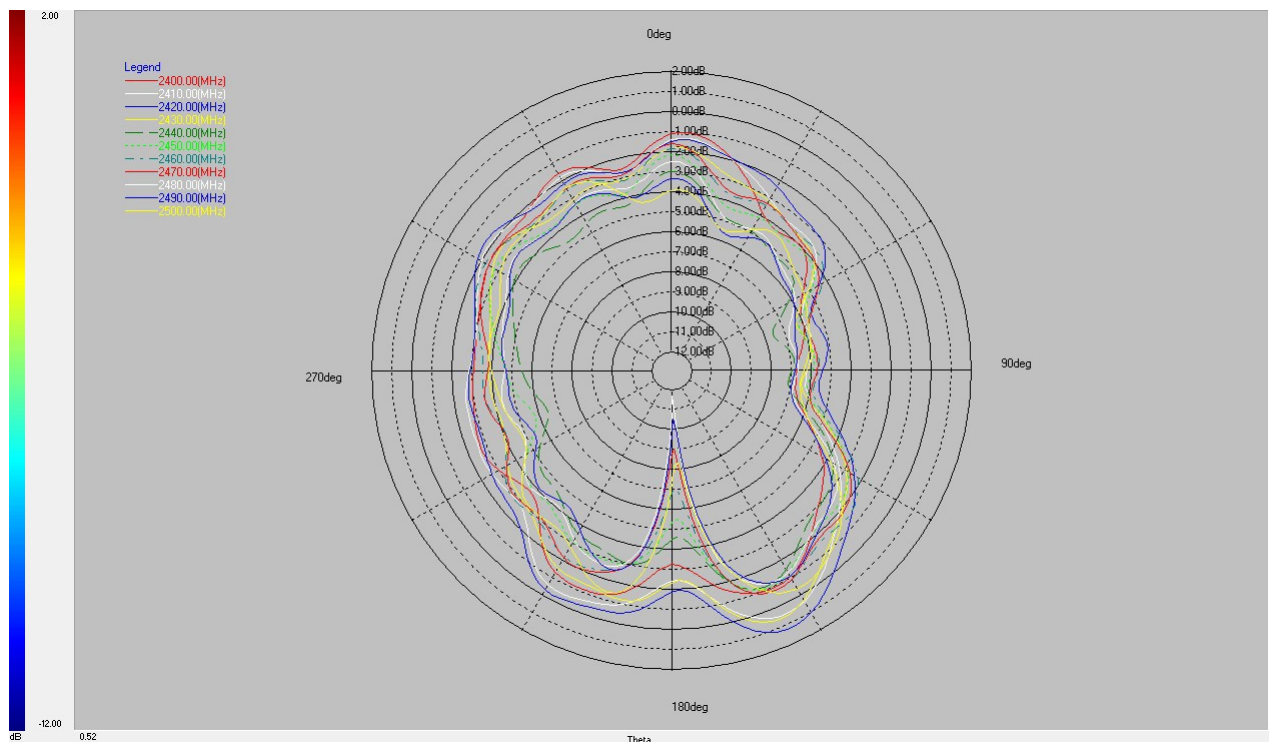
1. Test Setup



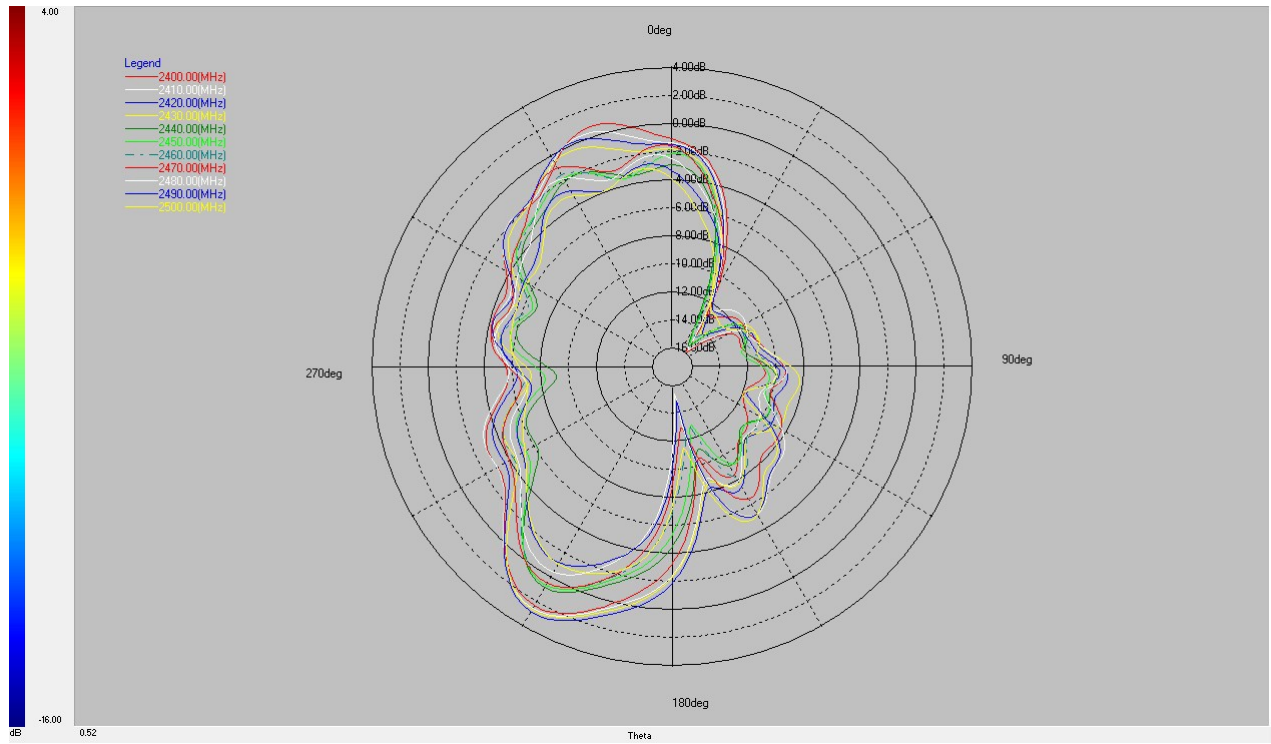
Annex B Figures

1. 2D Radiation Pattern

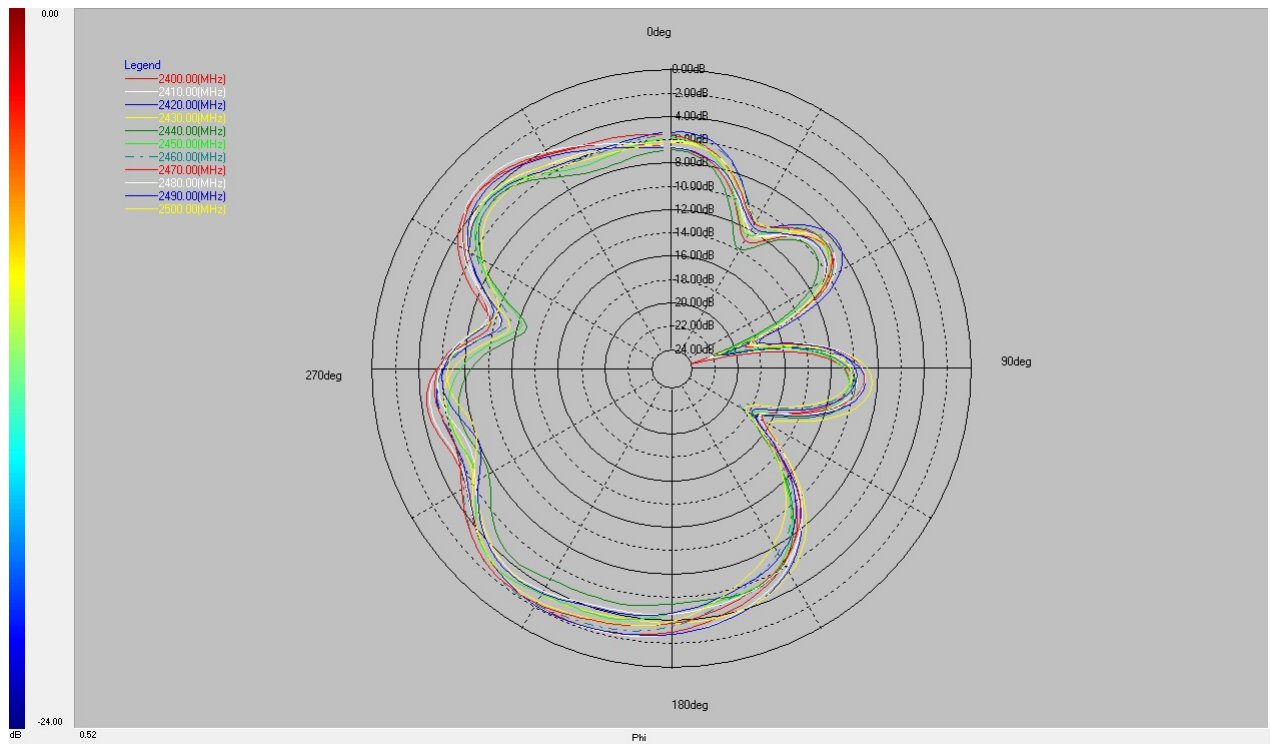
$\Phi=0^\circ$



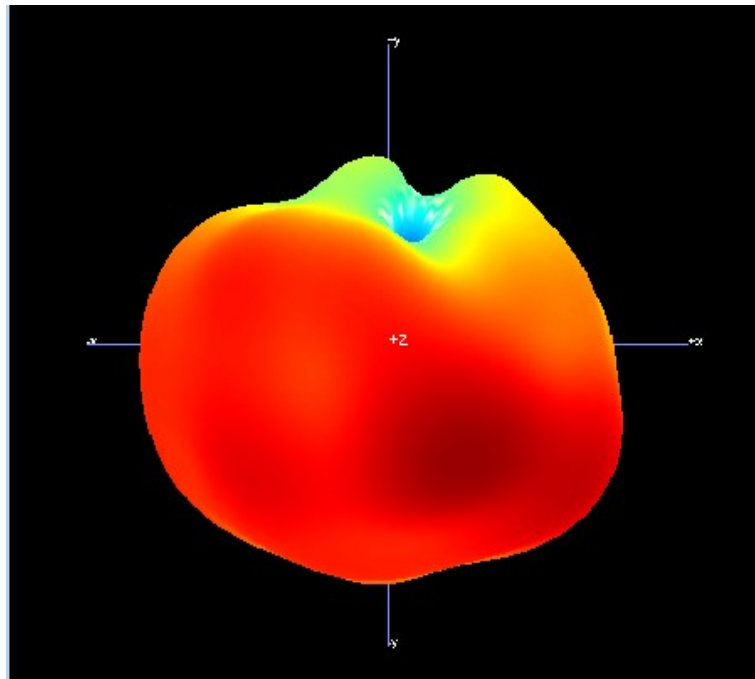
Phi=90°



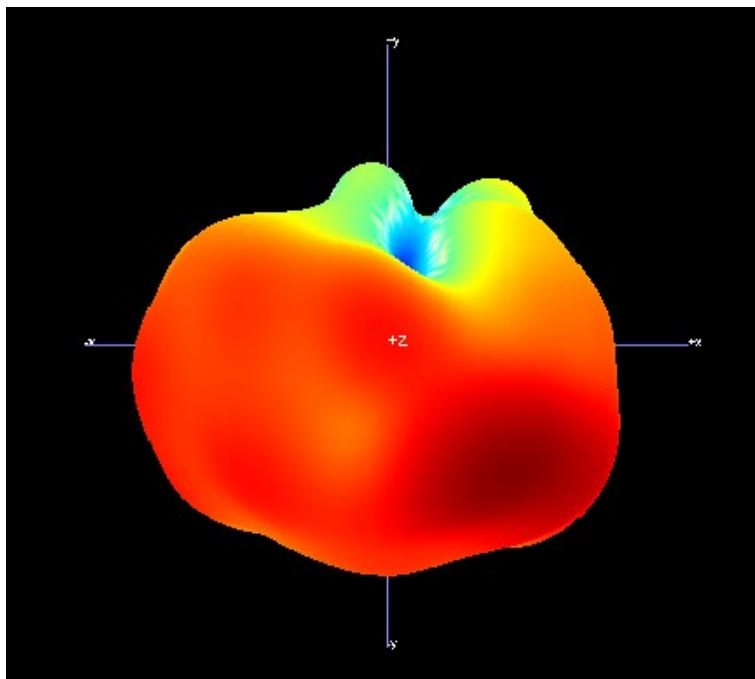
Theta=90°



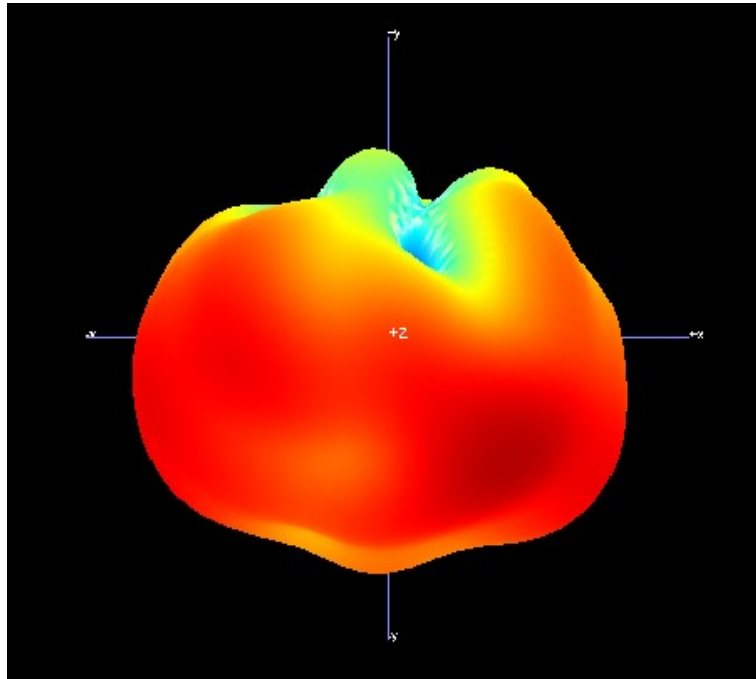
2. 3D Radiation Pattern



2400MHz

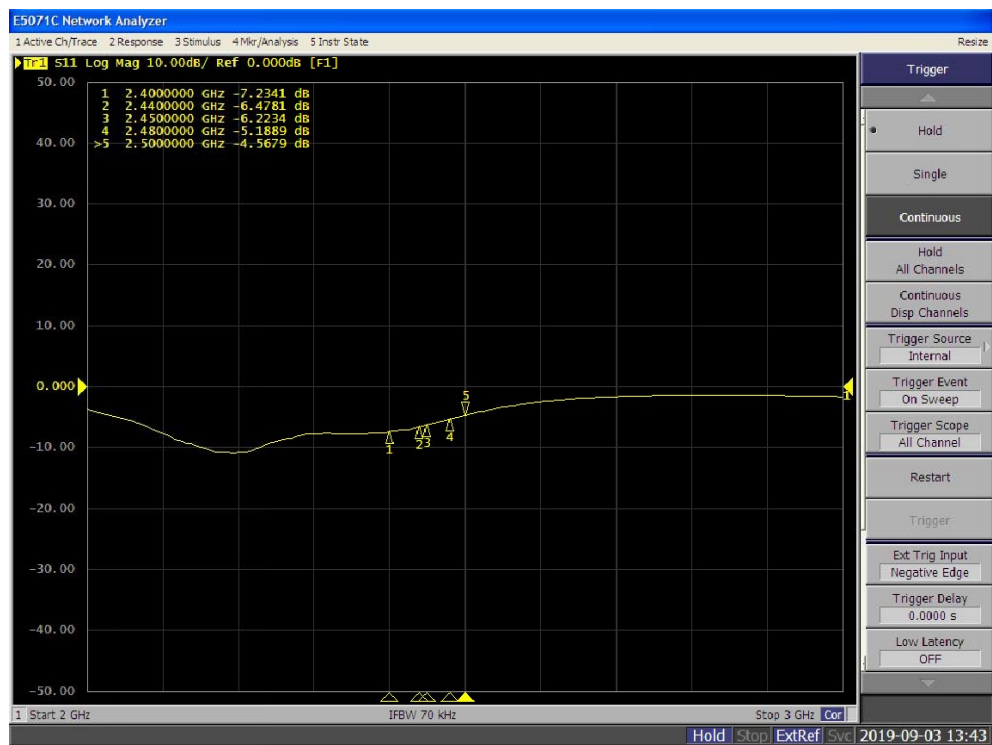


2450MHz

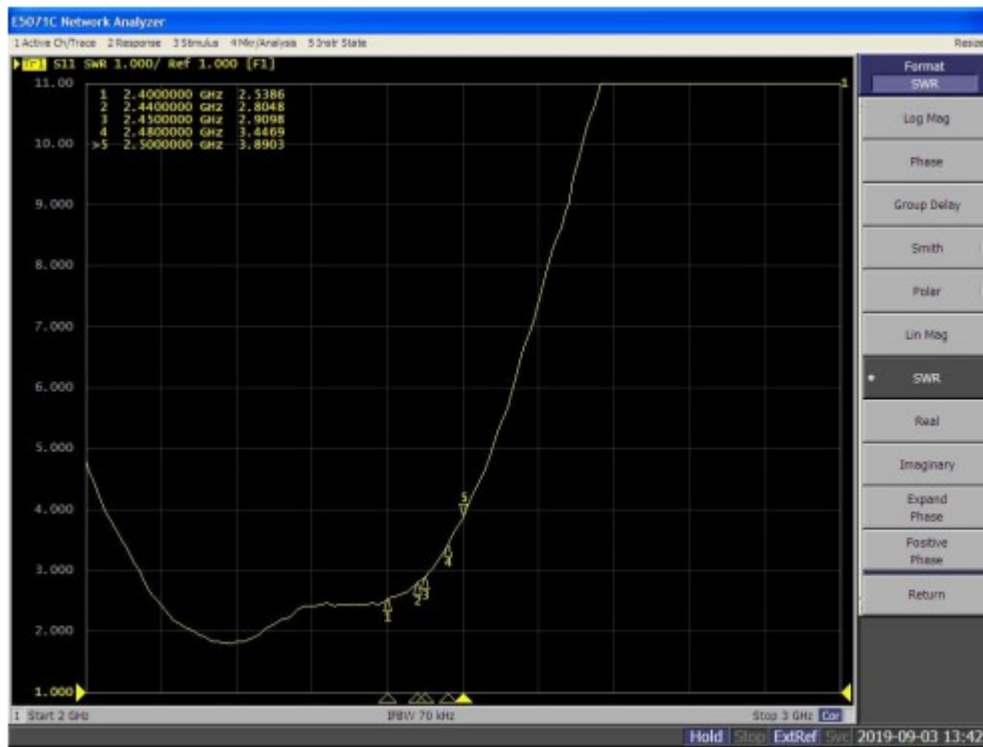


2500MH

3. Return Loss



4. VSWR



END