

Inverted F Antenna Specification

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PRODUCT NAME : MV_BP10xx PCB Antenna

DATE : 2019-10-30

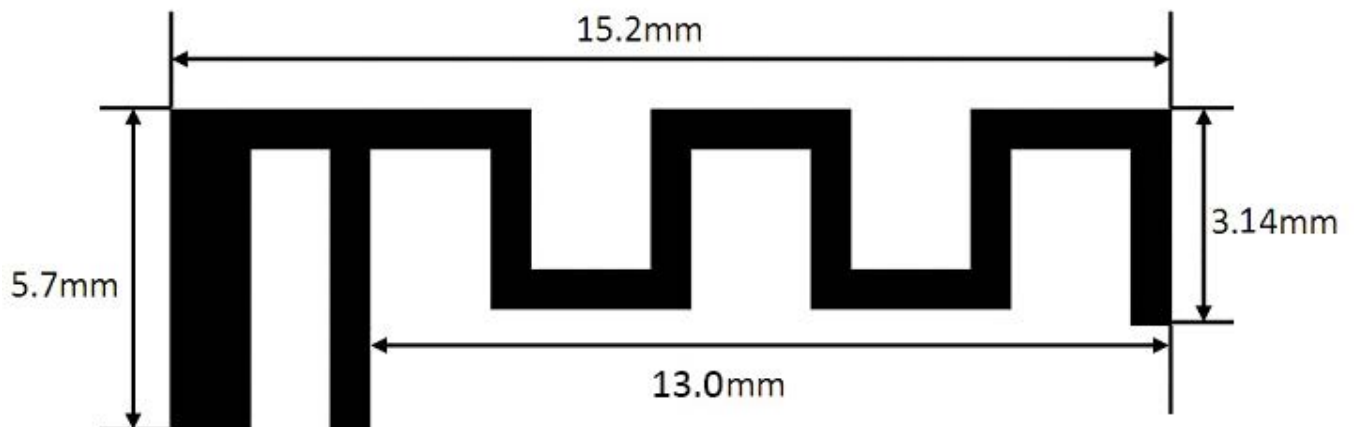
1. Antenna describe

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 Pattern	Omni-directional
Impedance	50 Ohm
Antenna Lengh	14.4mm
Gain(Max)	0dBi

2. Antenna Photo& Lengh (mm)



3. Gain

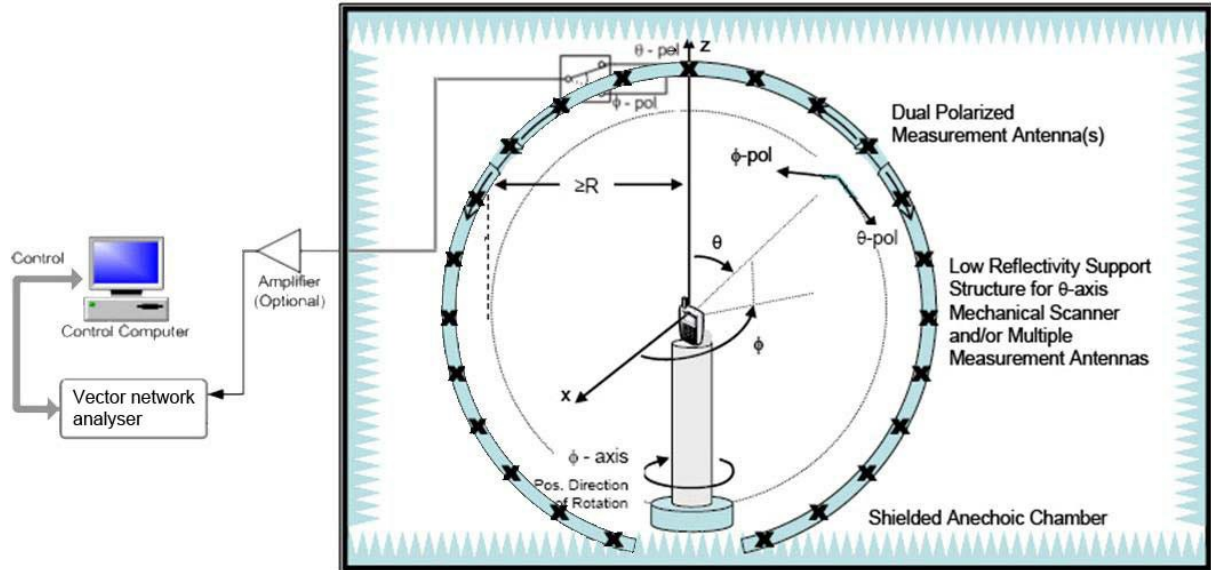
Frequency	Gain (dBi)
2400MHz	-0.81
2410MHz	-0.74
2420MHz	-0.70
2430MHz	-0.73
2440MHz	-0.01
2450MHz	-0.26
2460MHz	-0.50
2470MHz	-0.49
2480MHz	-0.42
2490MHz	-0.36
2500MHz	-0.33

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

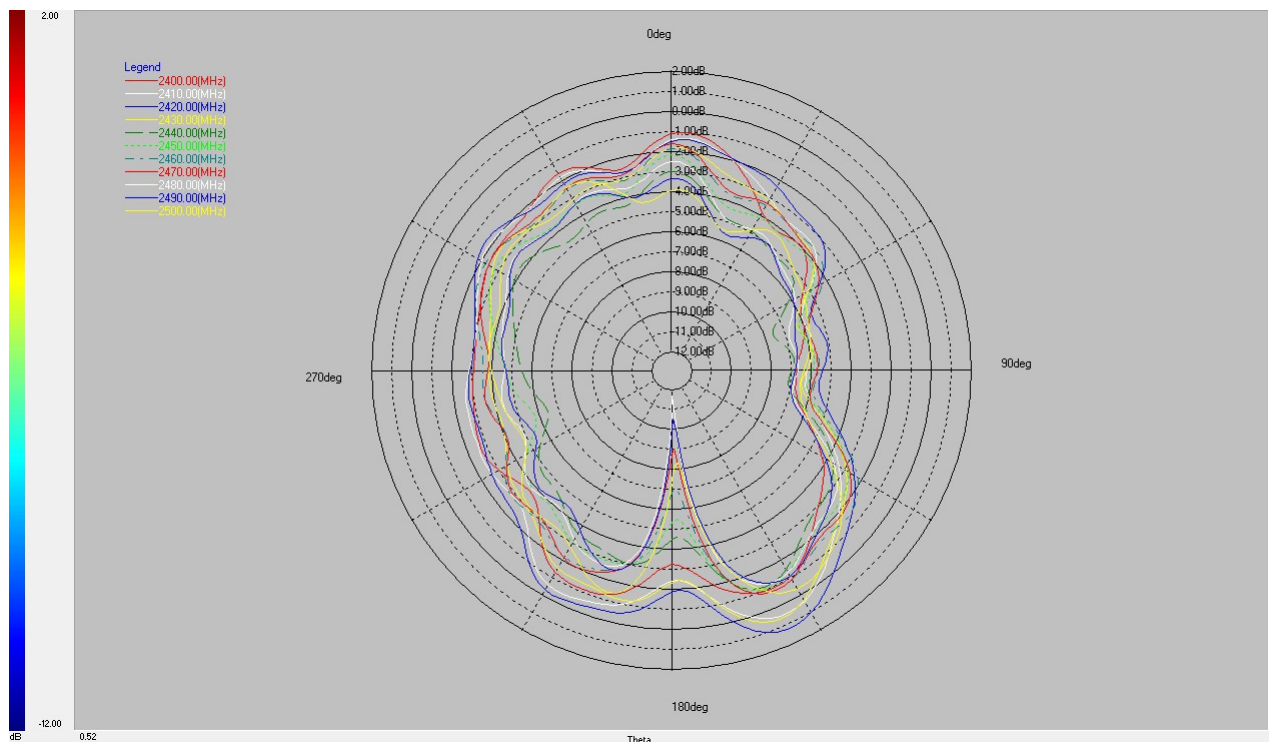
1. Test Setup



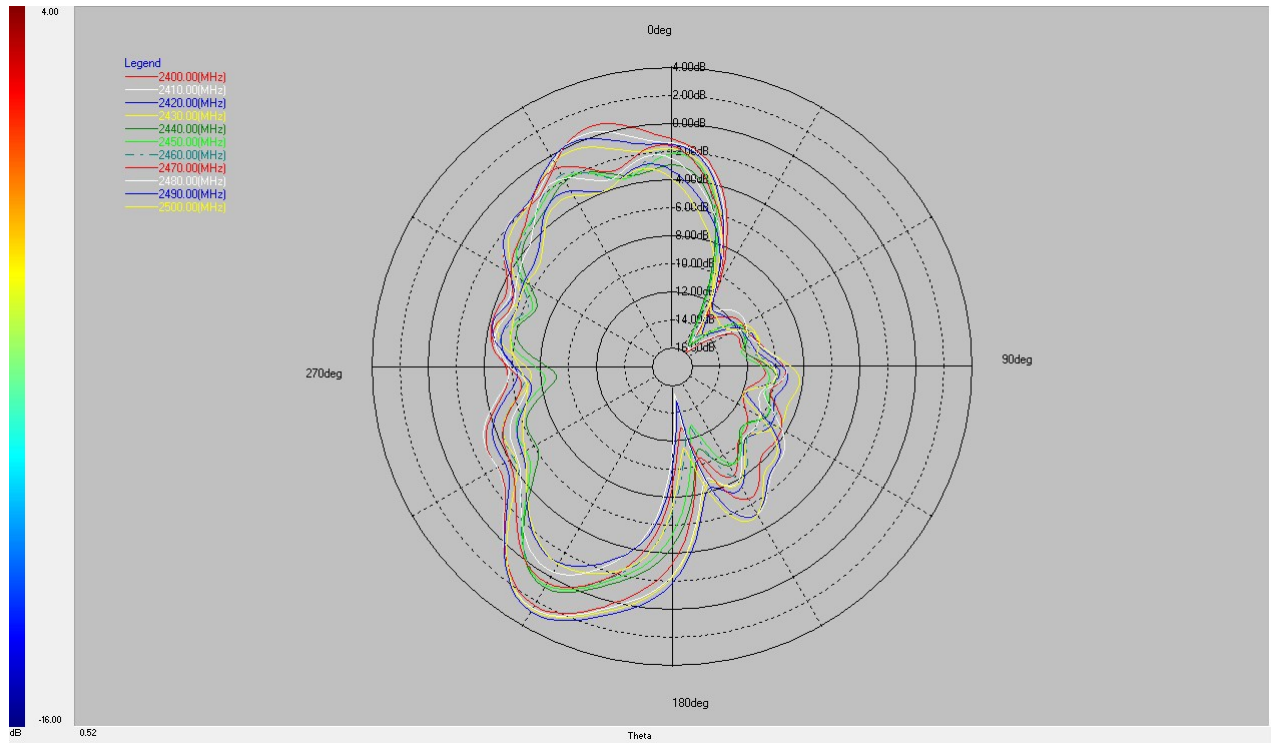
Annex B Figures

1. 2D Radiation Pattern

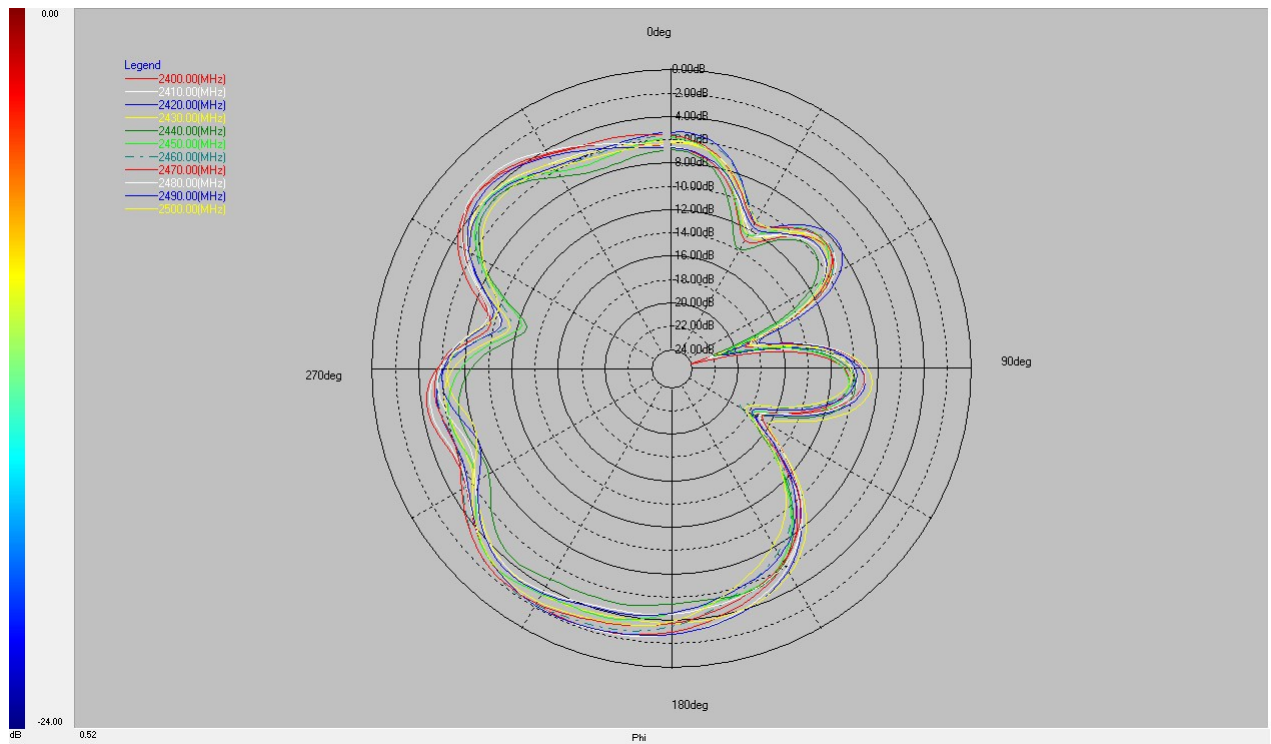
$\Phi=0^\circ$



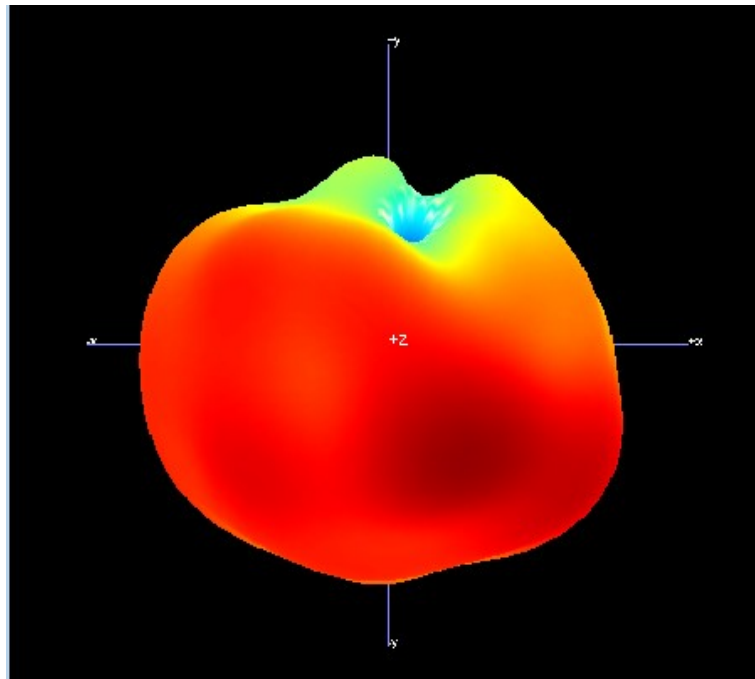
Phi=90°



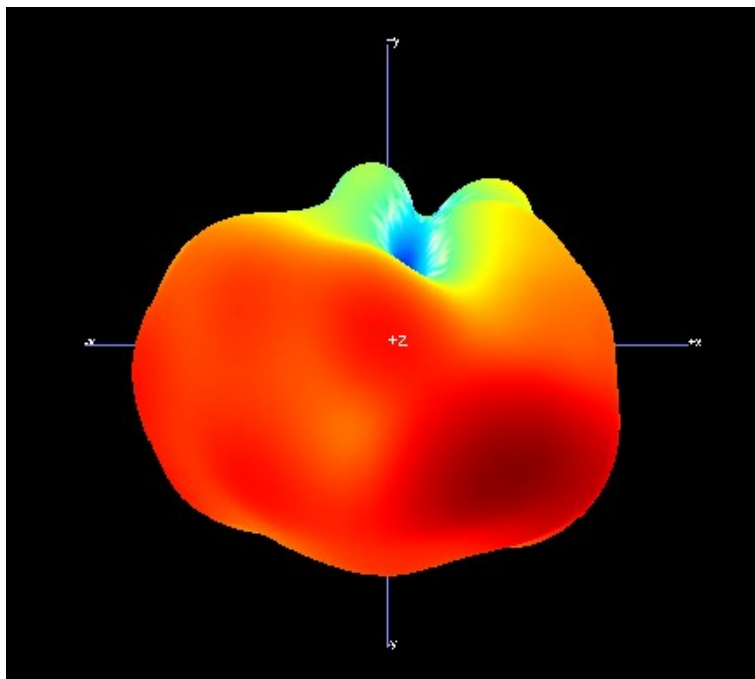
Theta=90°



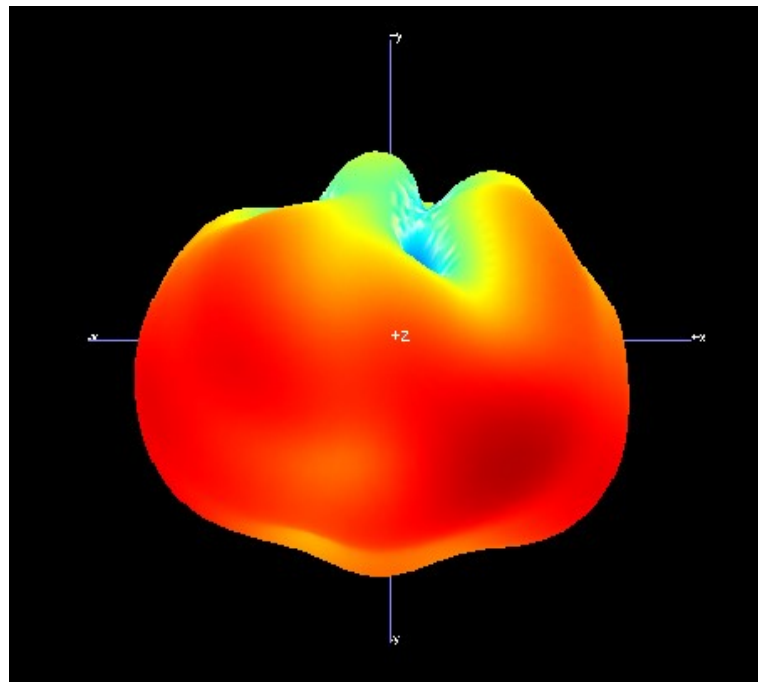
2. 3D Radiation Pattern



2400MHz

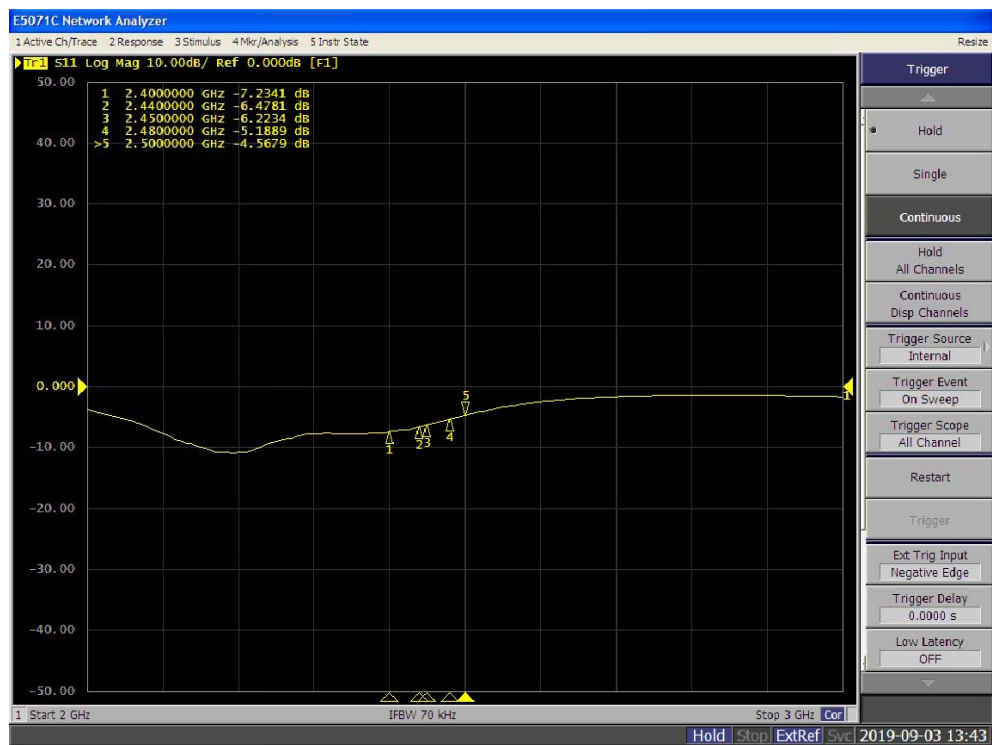


2450MHz

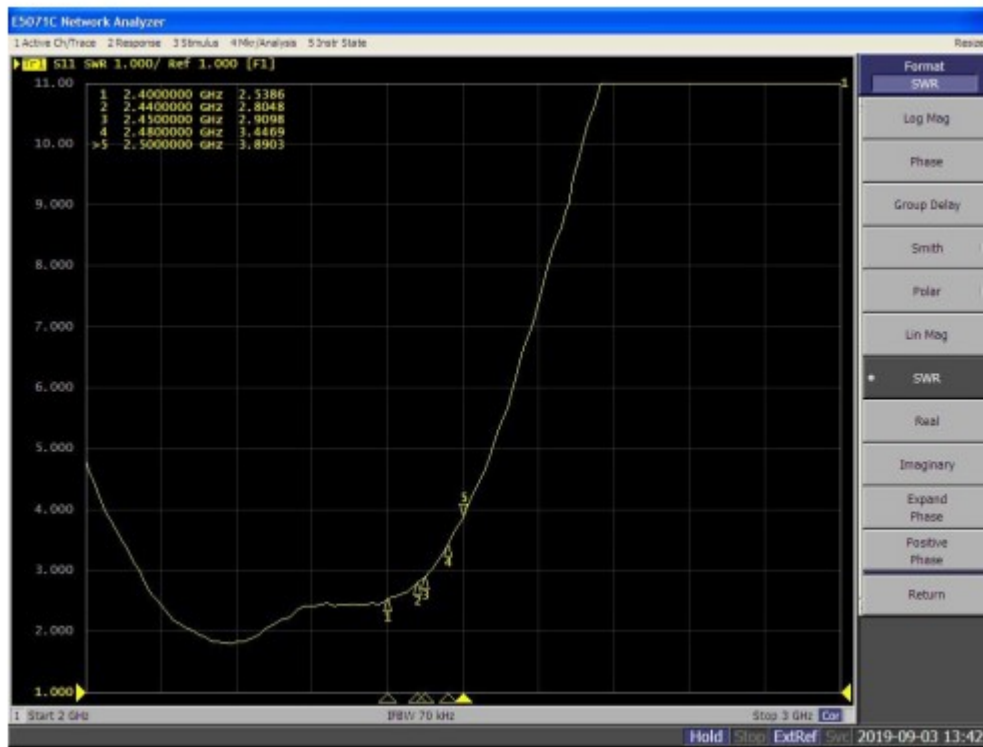


2500MH

3. Return Loss



4. VSWR



END