

Inverted F Antenna Specification

MANUFACTURE: NINGBO SILIANG LIGHTING TECHNOLOGY CO.,LTD

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PRODUCT NAME : PCB Antenna

DATE : 2019-10-30

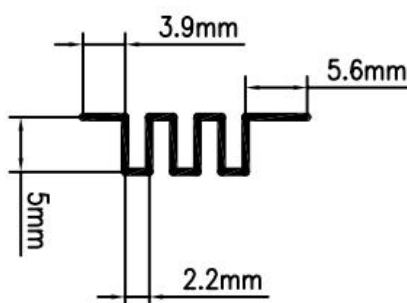
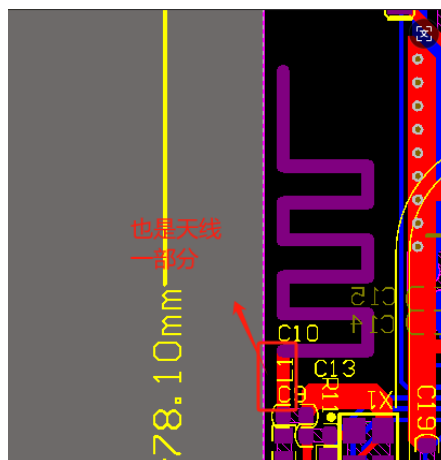
1. Antenna describe

Antenna plate: Inverted F Antenna

Frequency range: 2.4GHz-2.48GHz

ITEM Name	PCB 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)	1.5dBi

2. Antenna Photo& Lengh (mm)



3. Gain

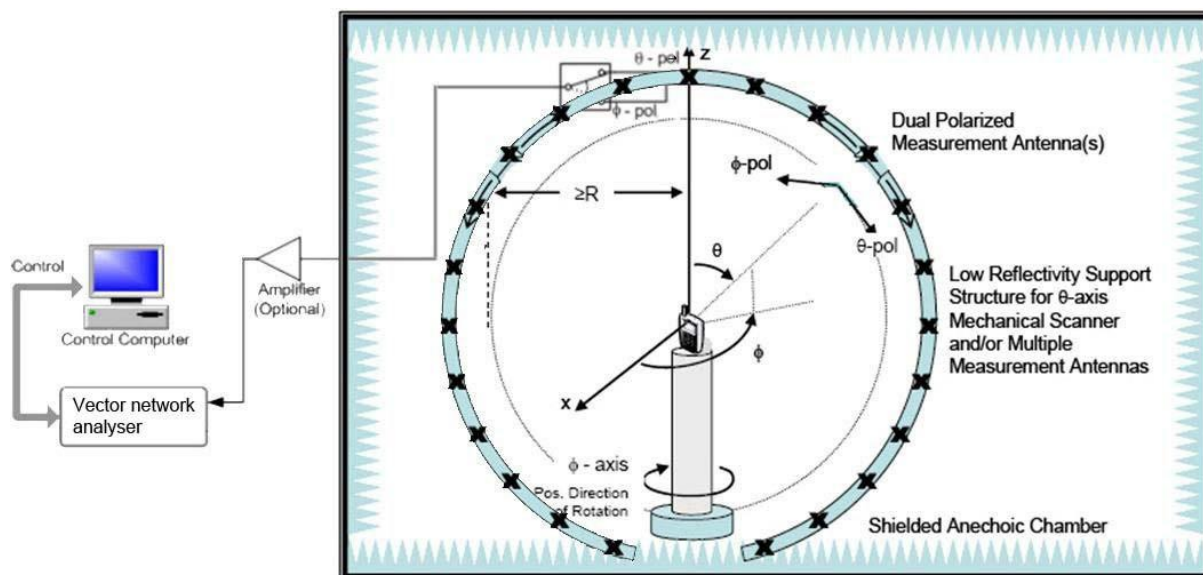
Frequency	Gain (dBi)
2400MHz	1.41
2410MHz	1.34
2420MHz	1.50
2430MHz	1.03
2440MHz	1.01
2450MHz	1.26
2460MHz	1.40
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33

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

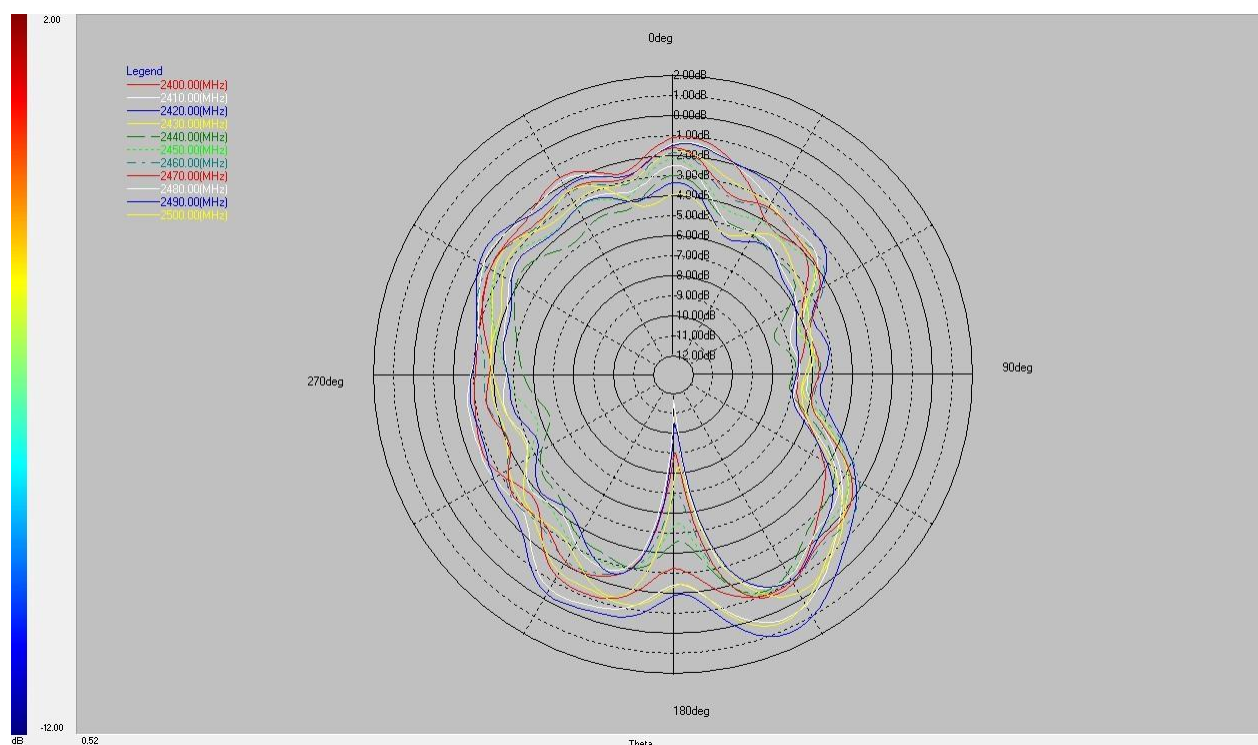
1. Test Setup



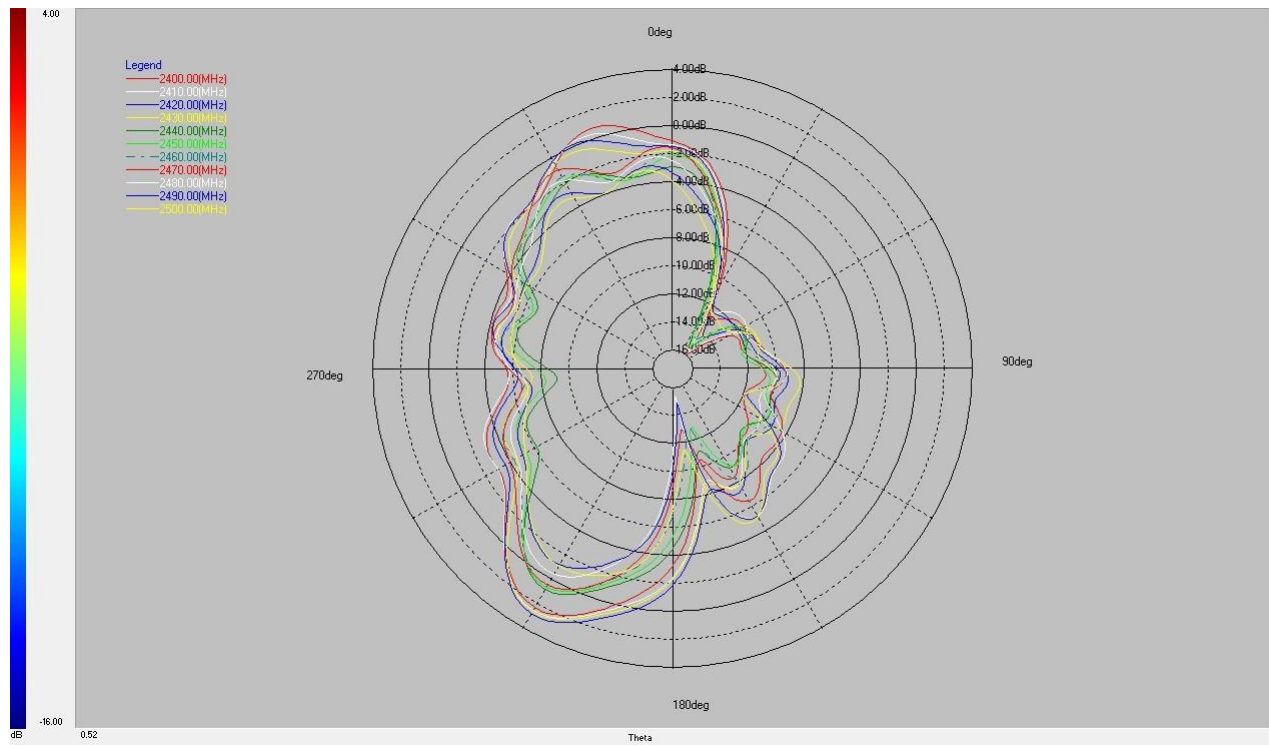
Annex B Figures

1. 2D Radiation Pattern

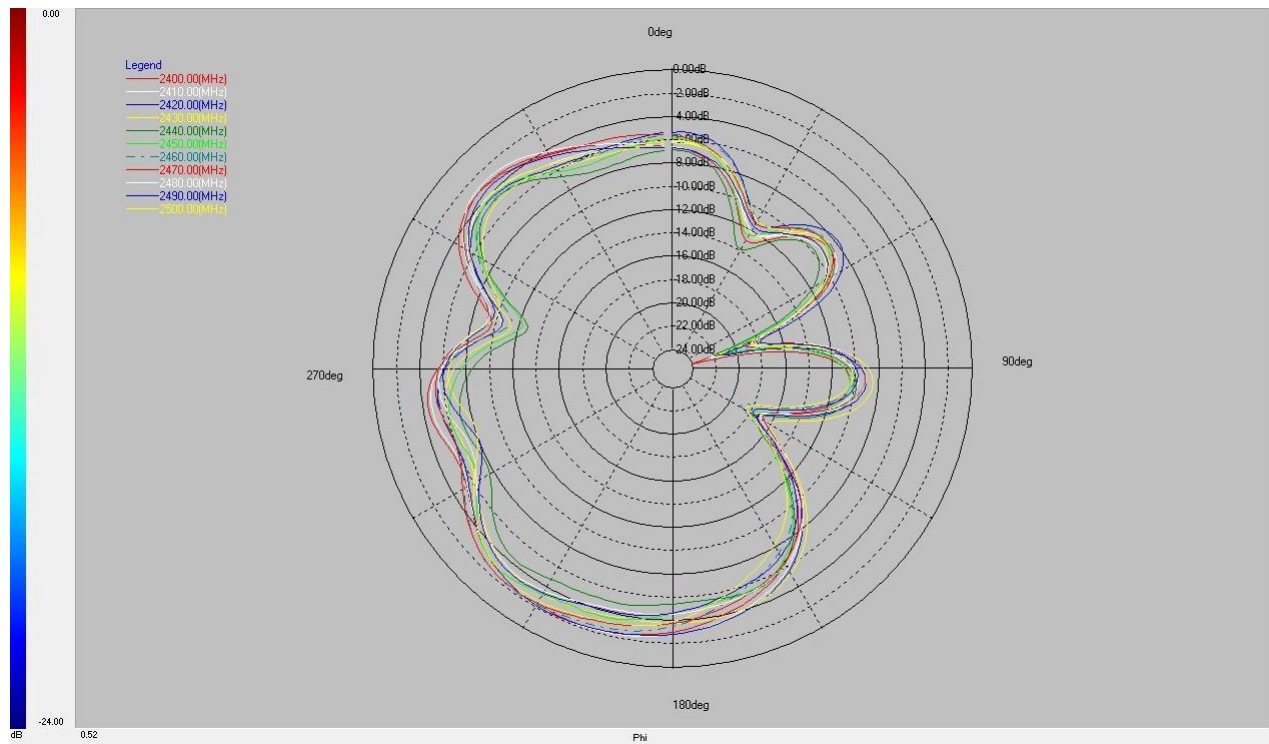
$\Phi=0^\circ$



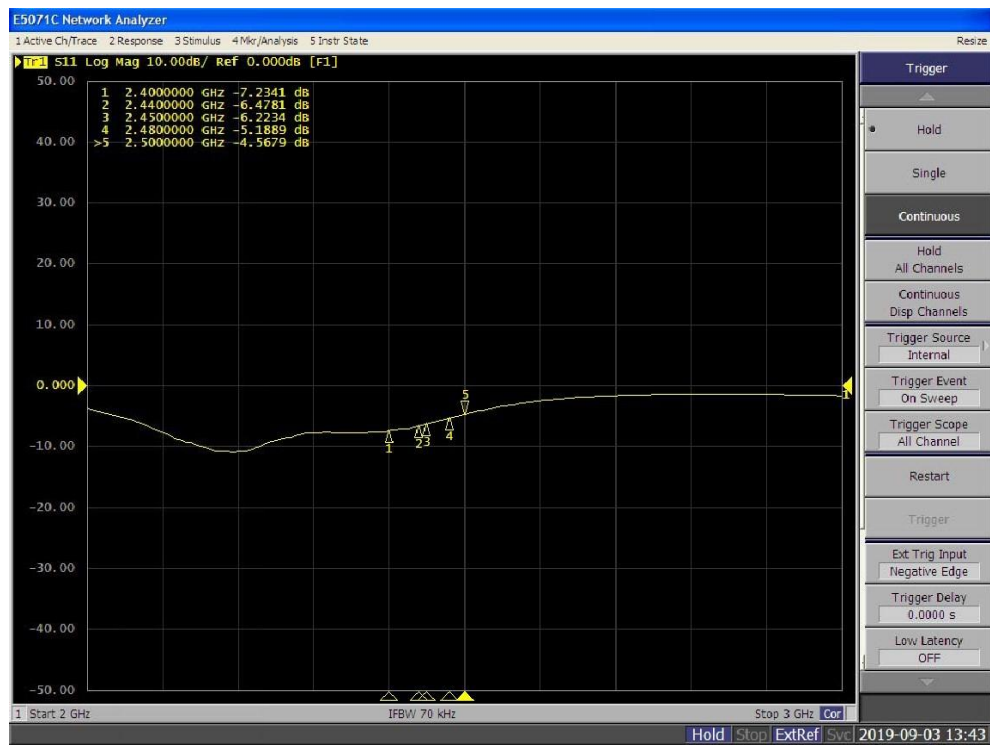
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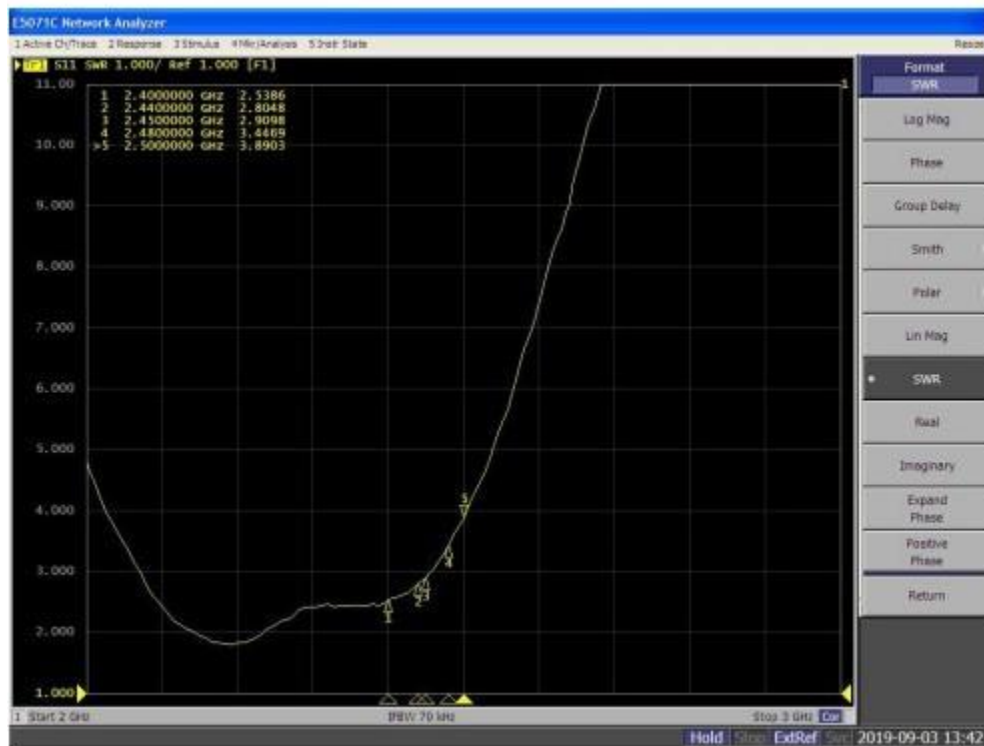
Theta=90°



2. Return Loss



3. VSWR



END