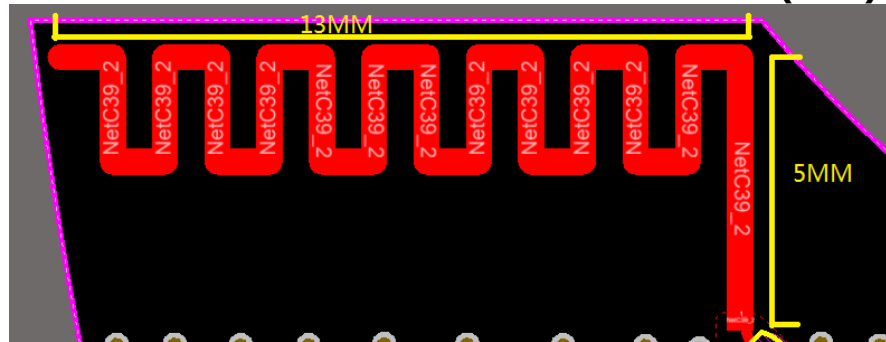


Type_2 Antenna Design Layout Guidelines & Pattern

1. Antenna Mechanical Dimensions (mm):



(Figure .1)

Top-Layer PCB picture



(Figure .2)

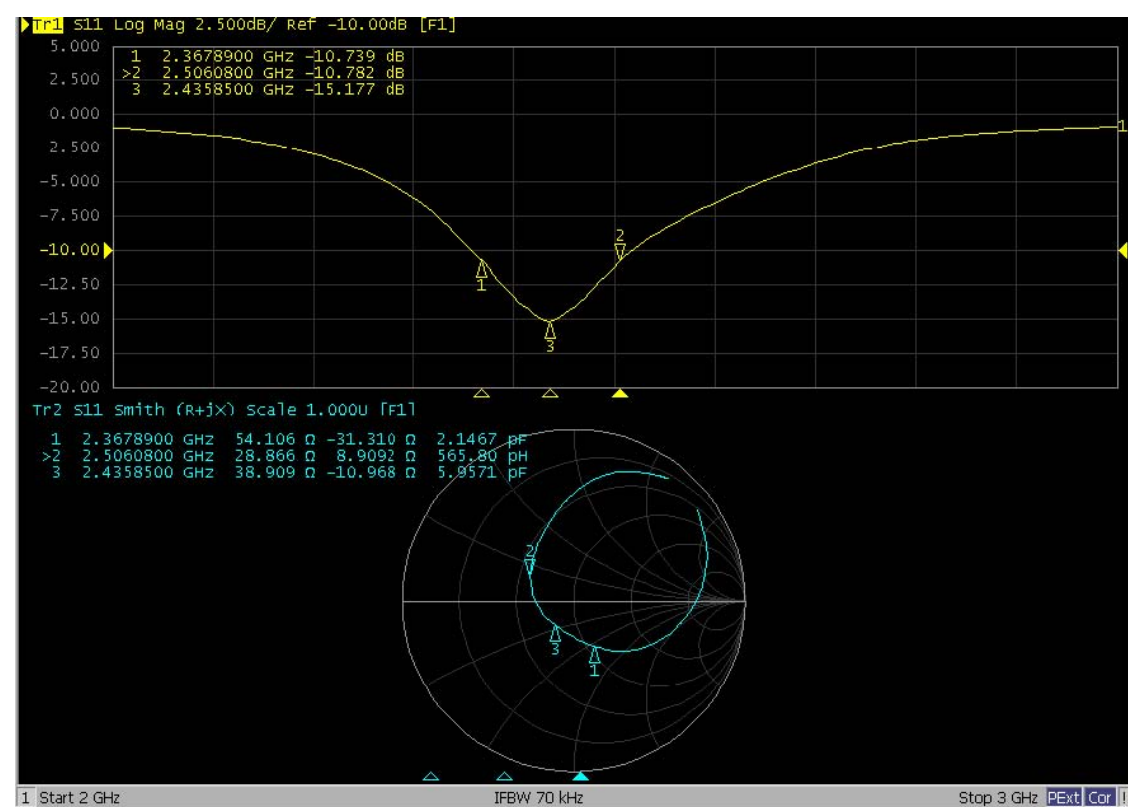
2. The PCB board is set as follows: This antenna type is suitable for

- A. PCB board thickness is _1.0 mm
- B. PCB sheet is _FR4

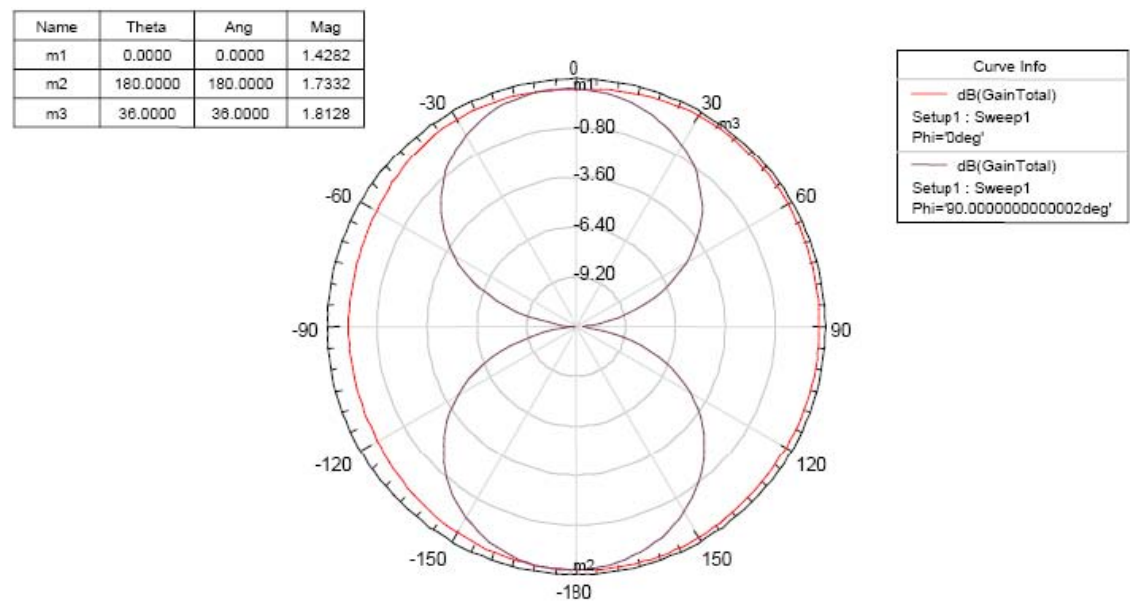
Manufacturer:Huizhou Kelin Acoustic Co., LTD
Address:Part of the Second Floor of the Huili Powder Coating Company Factory
Building, Dongjiang Village, Chenjiang Street, Zhongkai High Tech
Zone, Huizhou City, Guangdong Province, China

3. The antenna measurement and field shape simulation results are as follows:

* Return Loss / Standing Wave Ratio (VSWR) measurement:

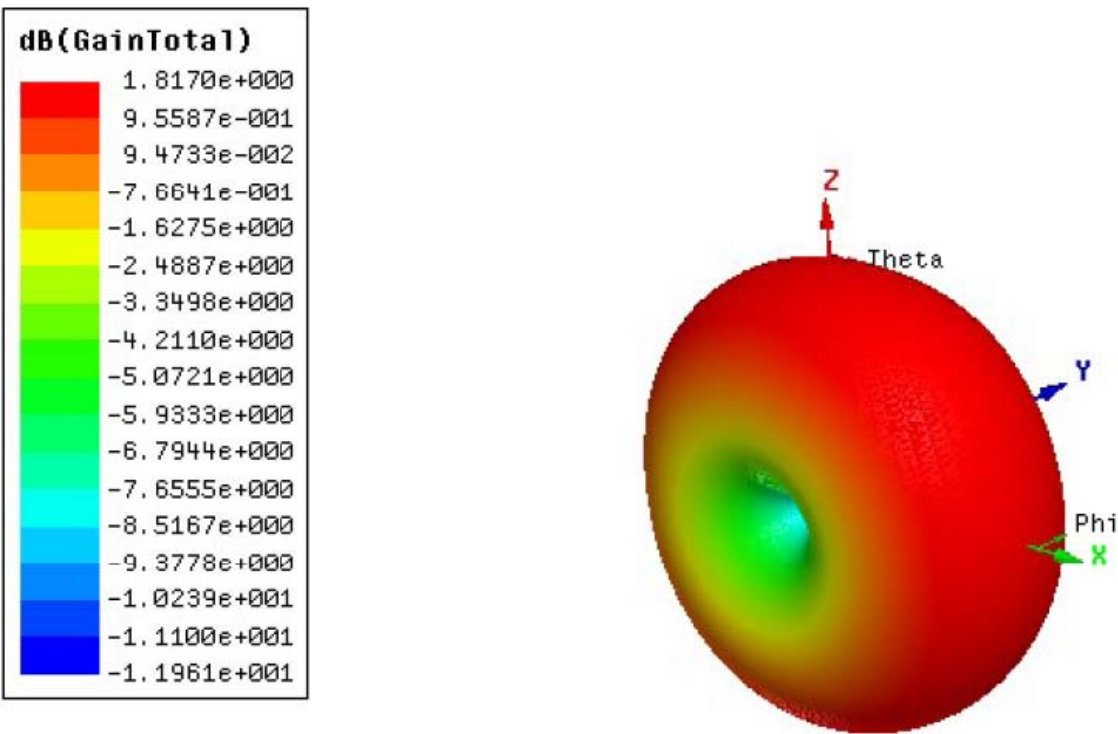


*2D Radiation Patterns :



(Figure .4)

*3D Radiation Patterns :



(Figure .5)

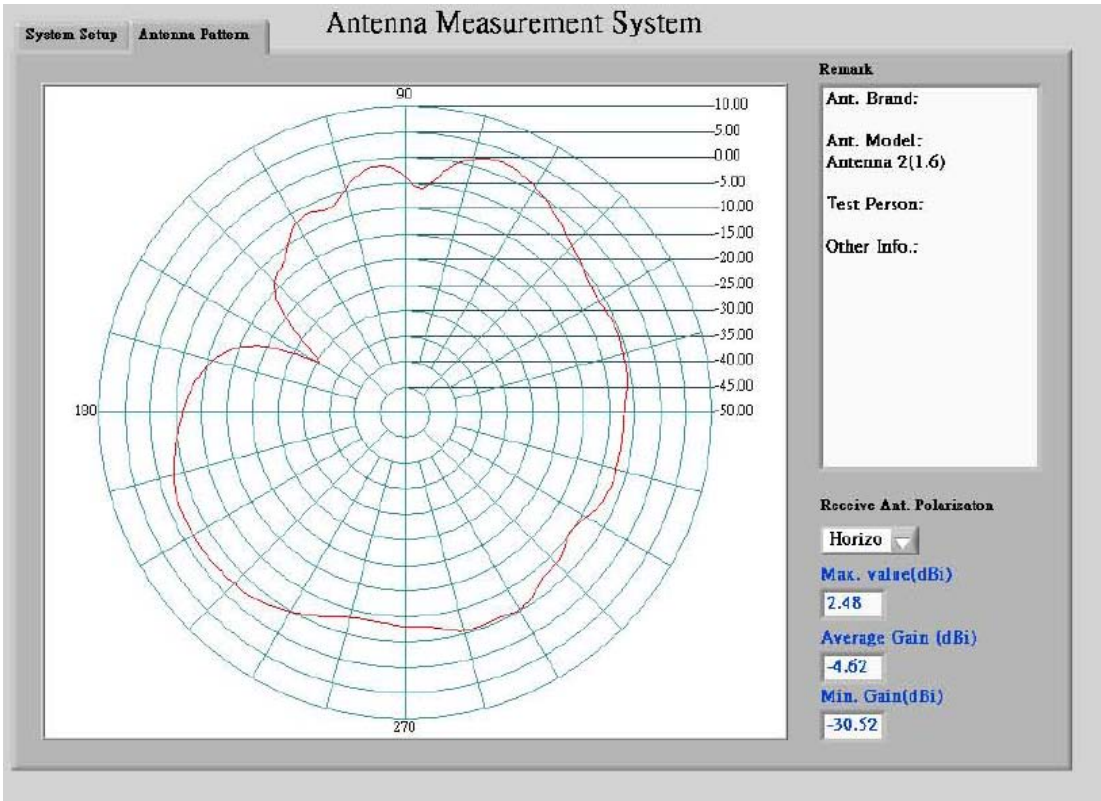
:From the above measurement and simulation, we can know that the gain of this antenna can reach about 1.5dBi.

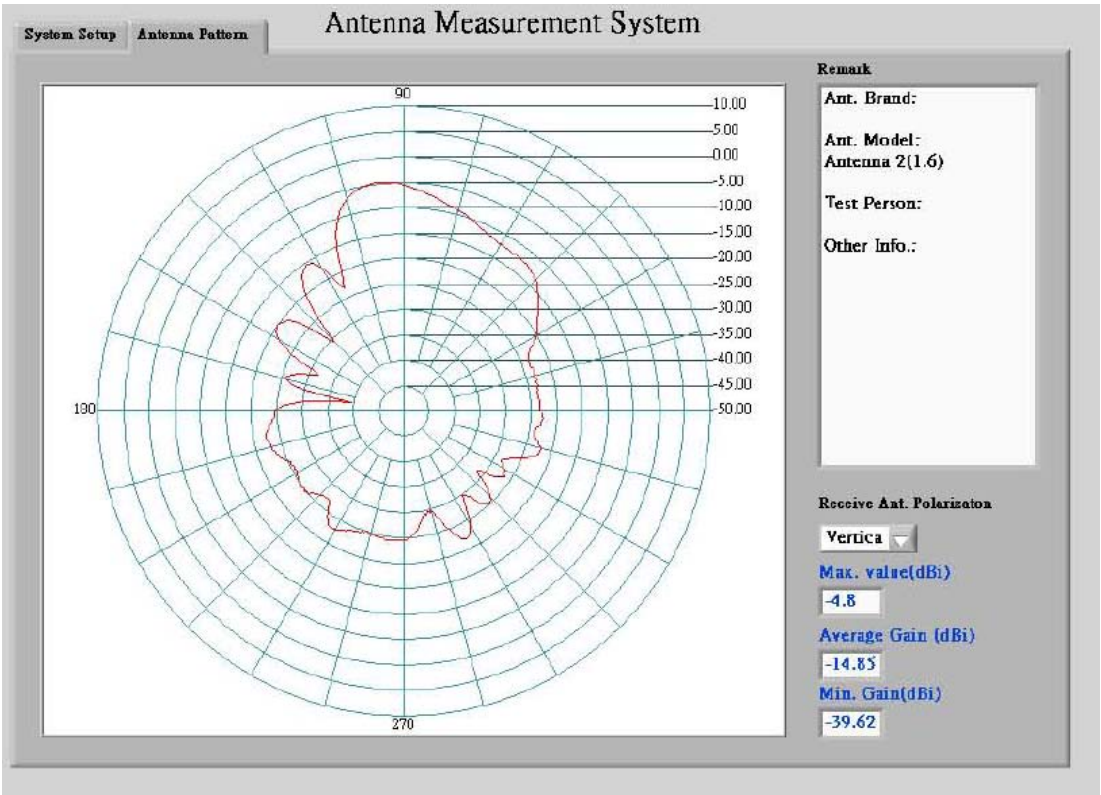
4. Antenna Radiation Patterns:
Summary

ITEM	SPEC.	
Antenna Type	Type_2_Single Wiggle Antenna	
Center Frequency	2400 MHz	2.48 dBi
	2450 MHz	2.82 dBi
	2500 MHz	3.7 dBi
Max. GAIN	3.7 dBi	
Mini. GAIN	- 48.85 dBi	
AVG GAIN	- 4.62 dBi	
DUT Polarization	Horizontal & Vertical	
TEST Output Power Level	10dBm	
Impedance	50 Ω	

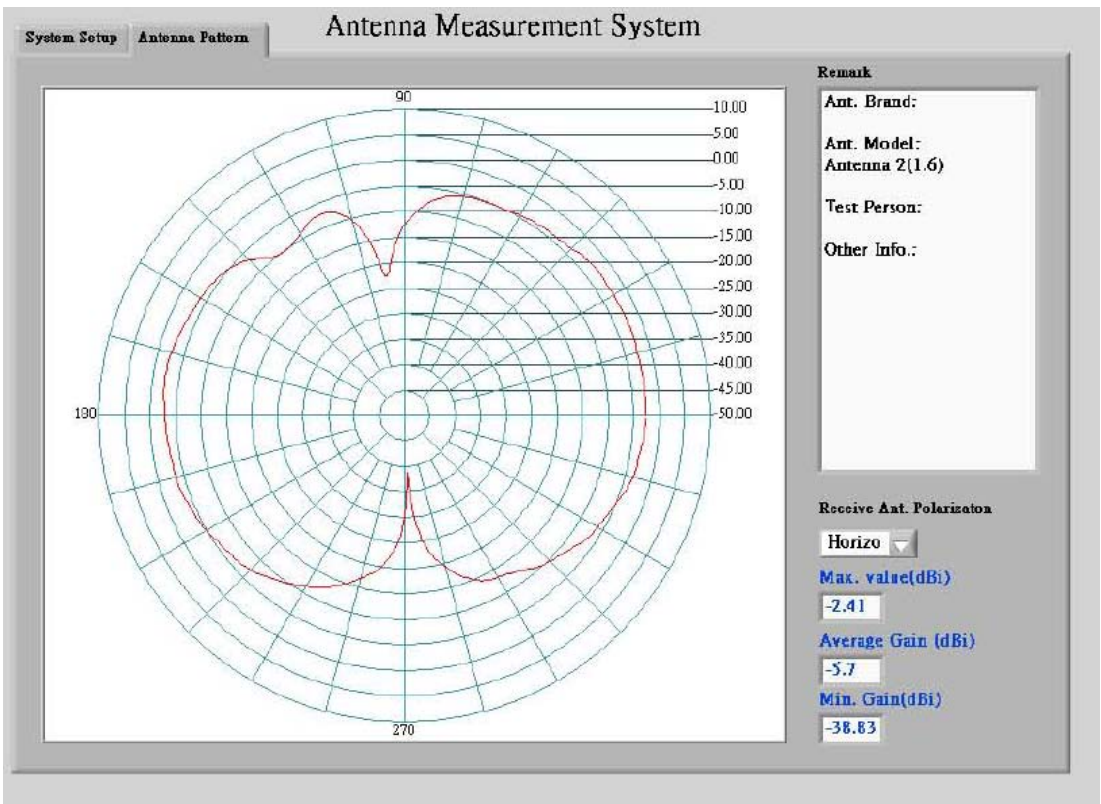
(Table. 1)

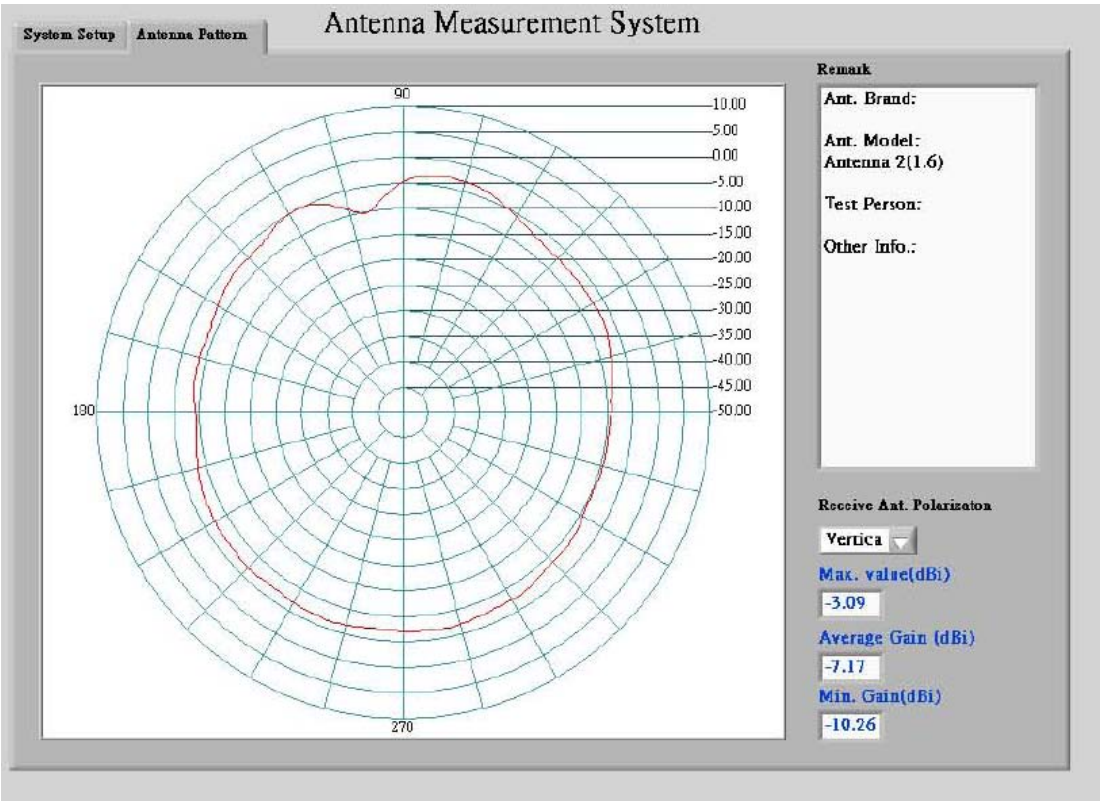
Center Frequency_2400MHz
DUT_ Horizontal



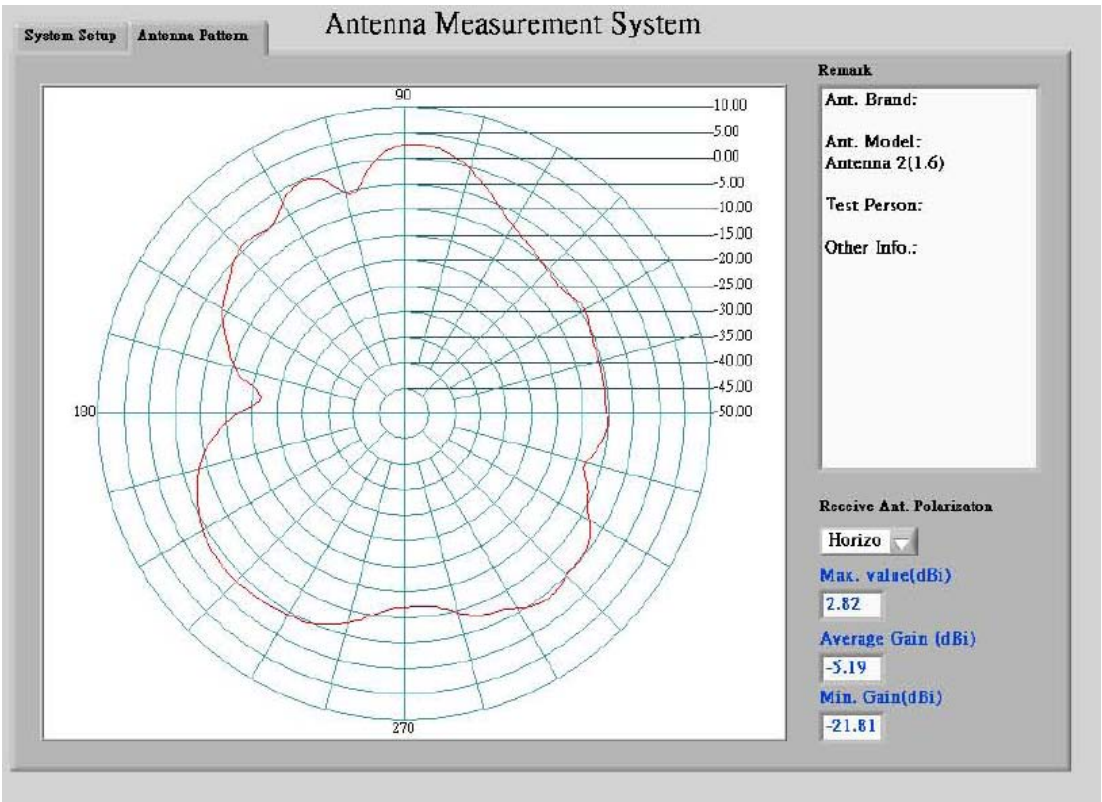


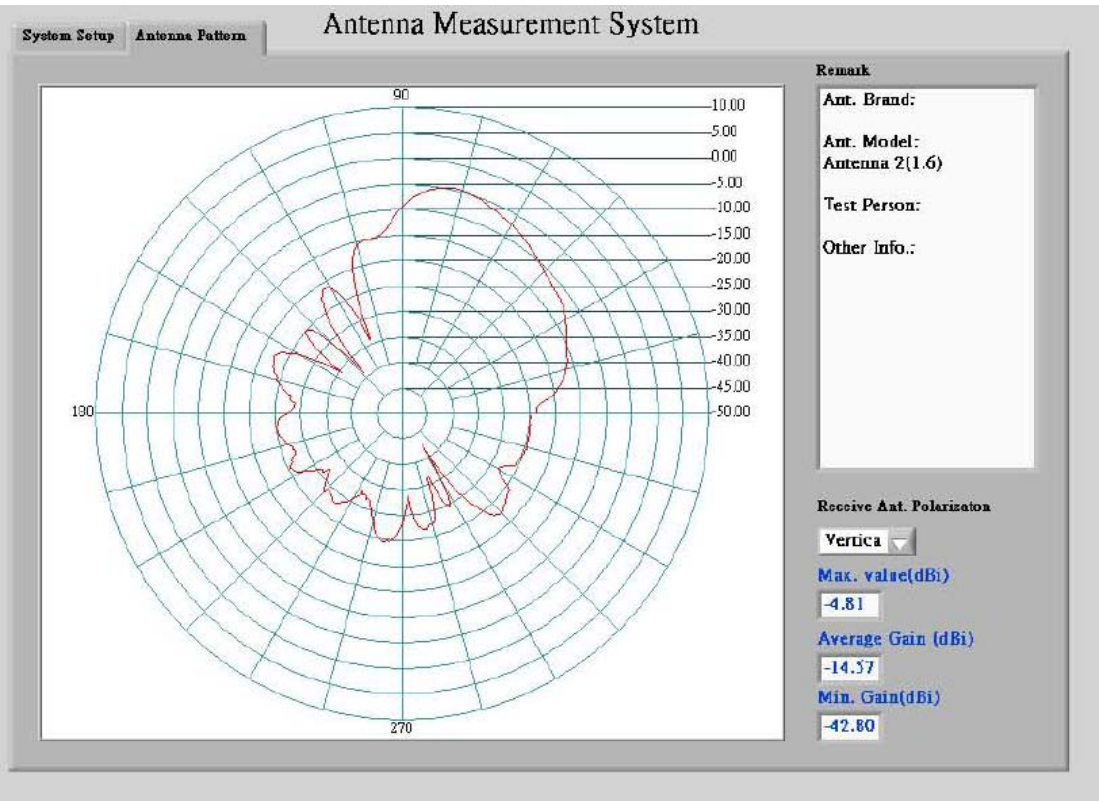
DUT_ Vertical



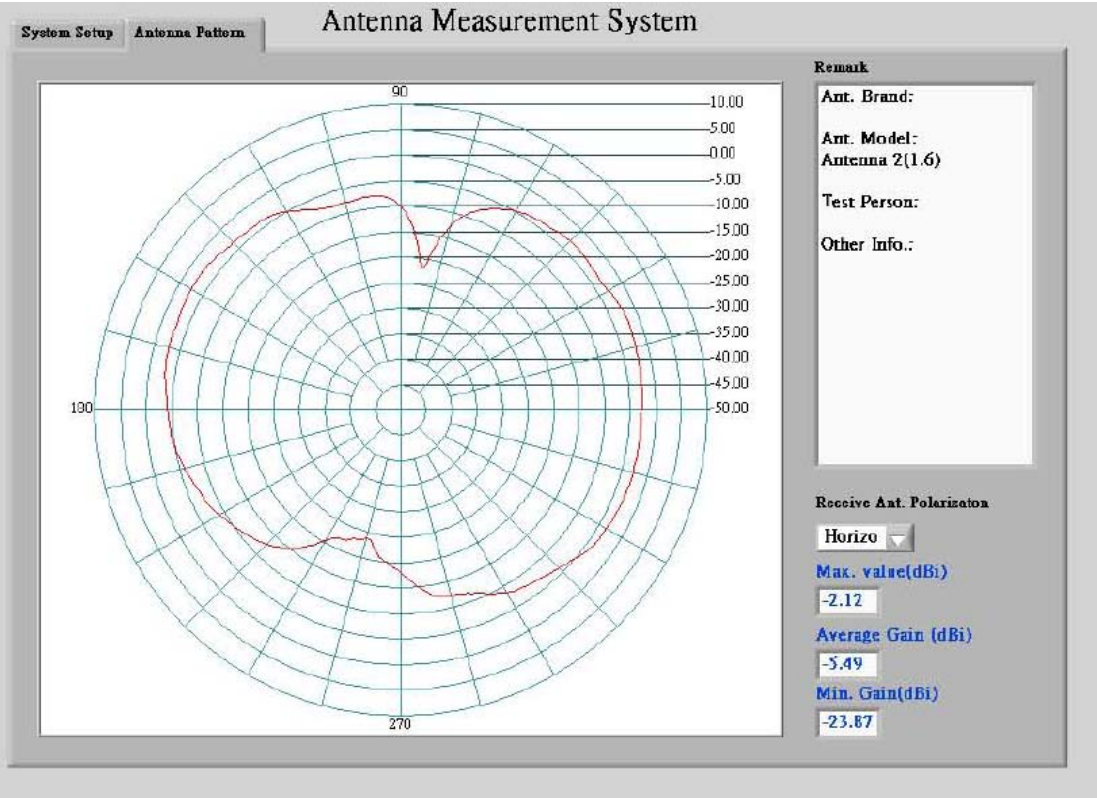


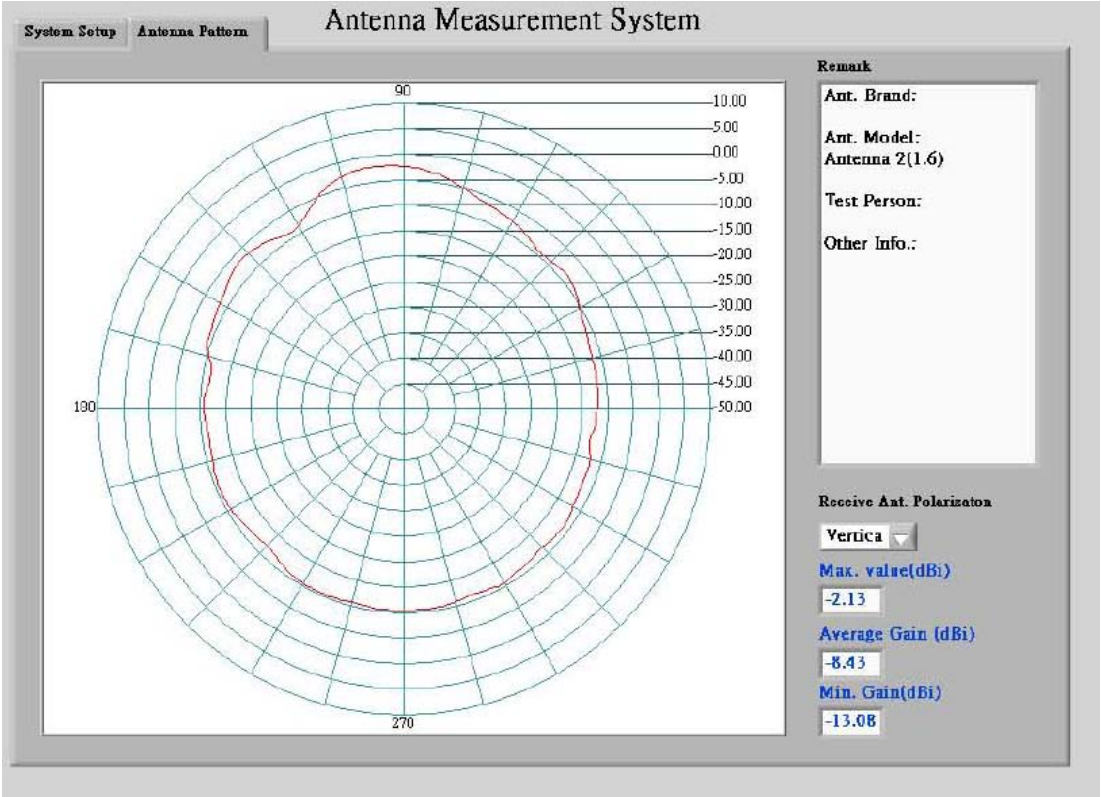
Center Frequency_2450MHz
DUT_ Horizontal



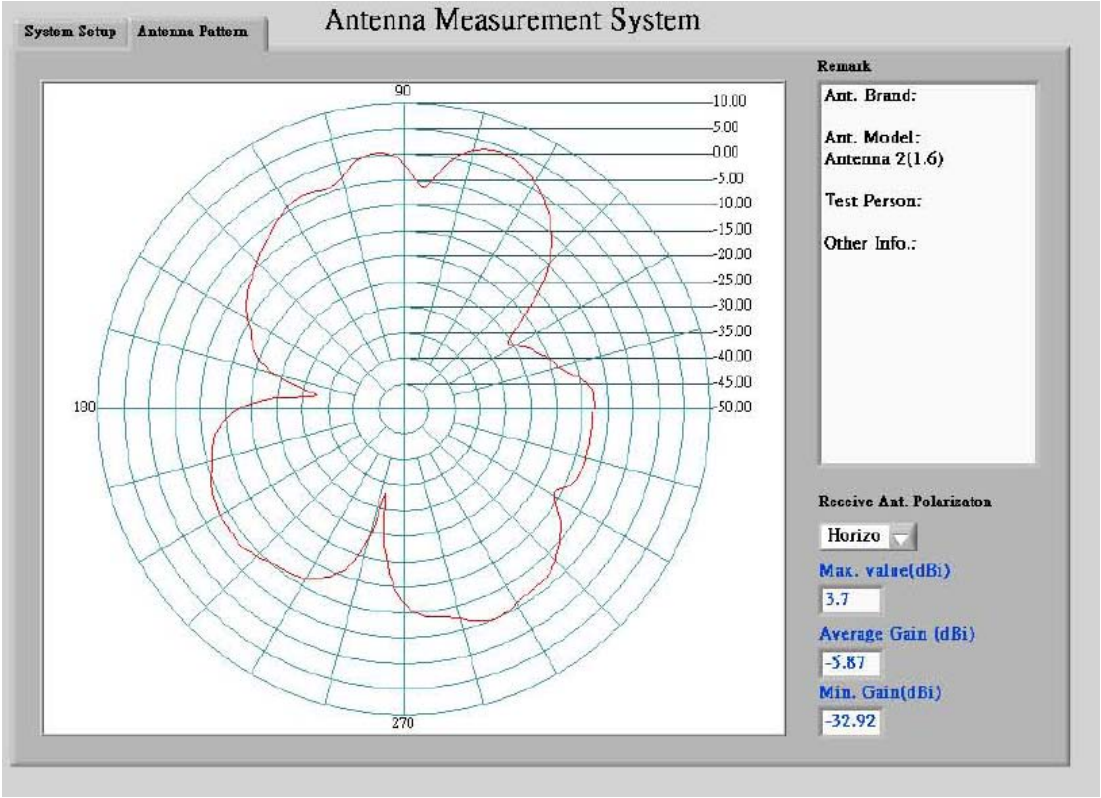


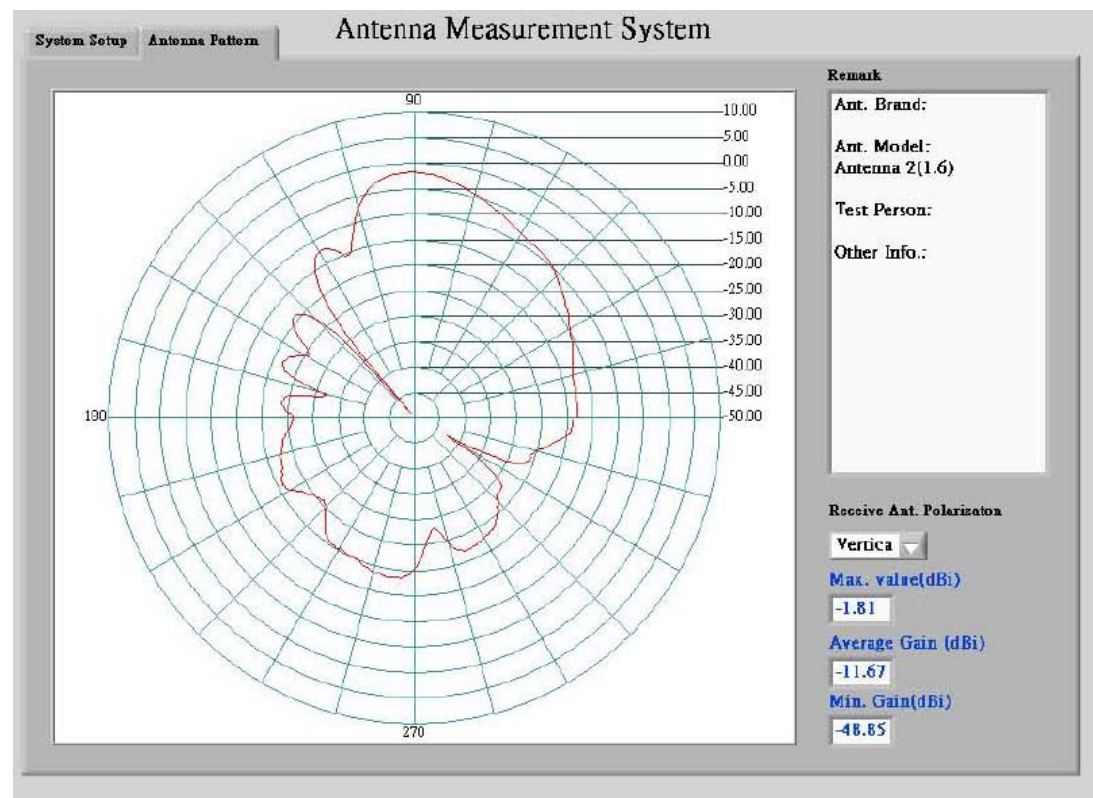
DUT_ Vertical





Center Frequency_2500MHz
DUT_ Horizontal





DUT_ Vertical

