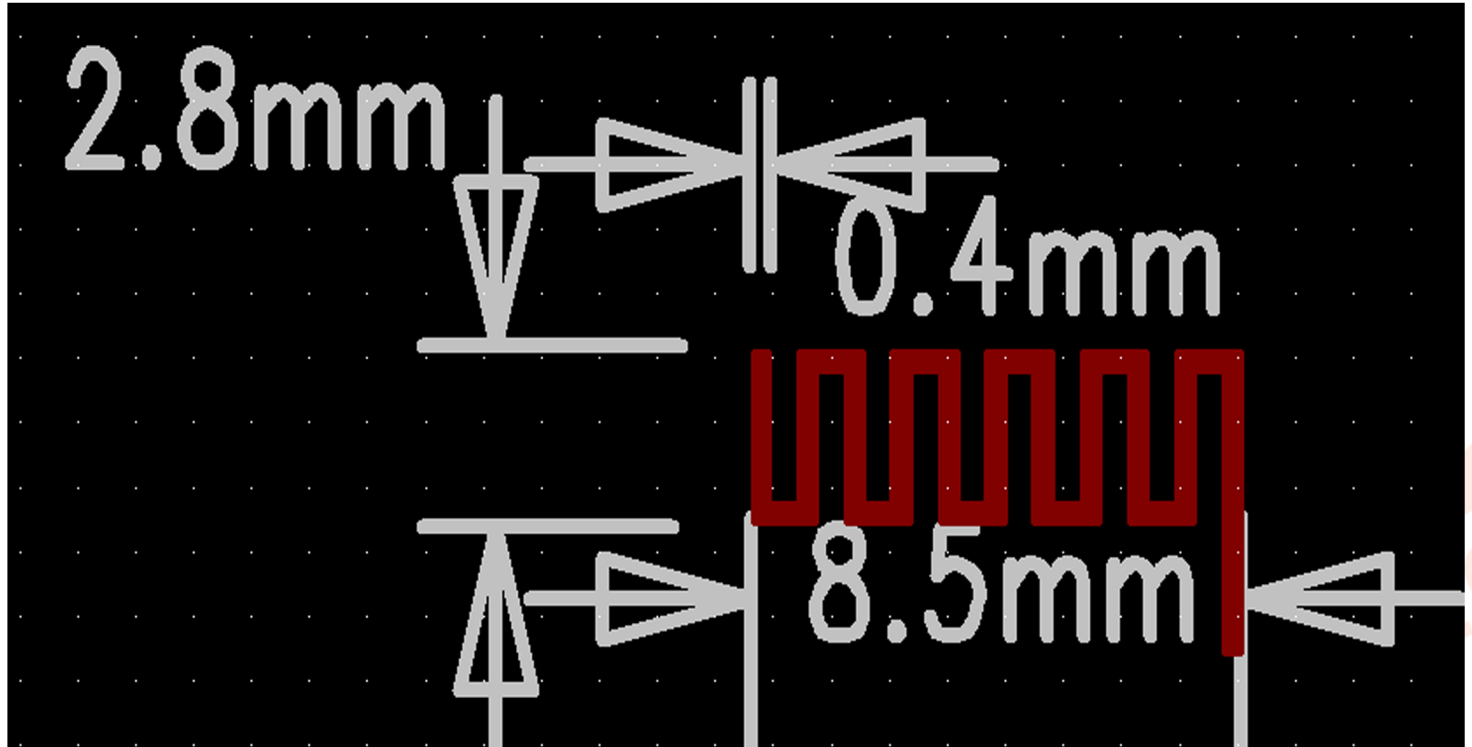
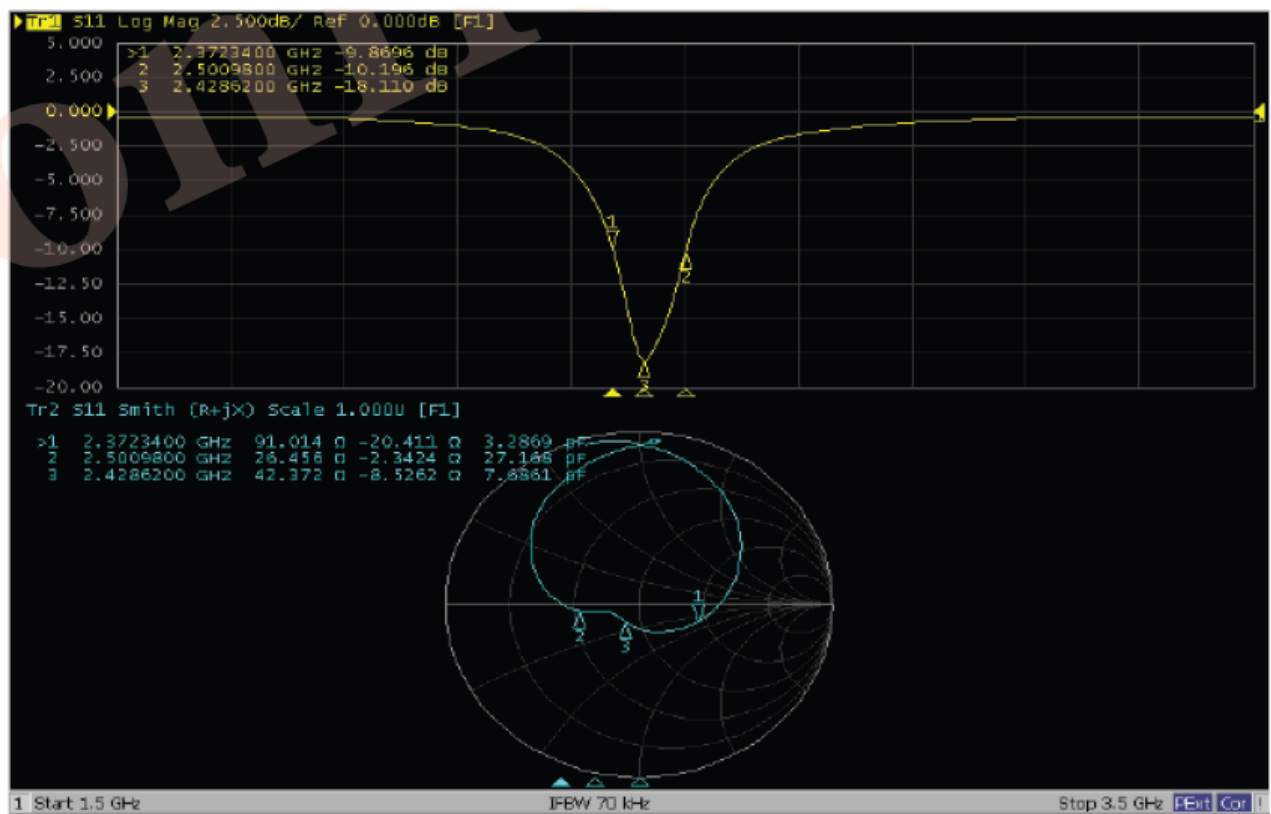


Type_3 Antenna Design Layout Guidelines & Pattern

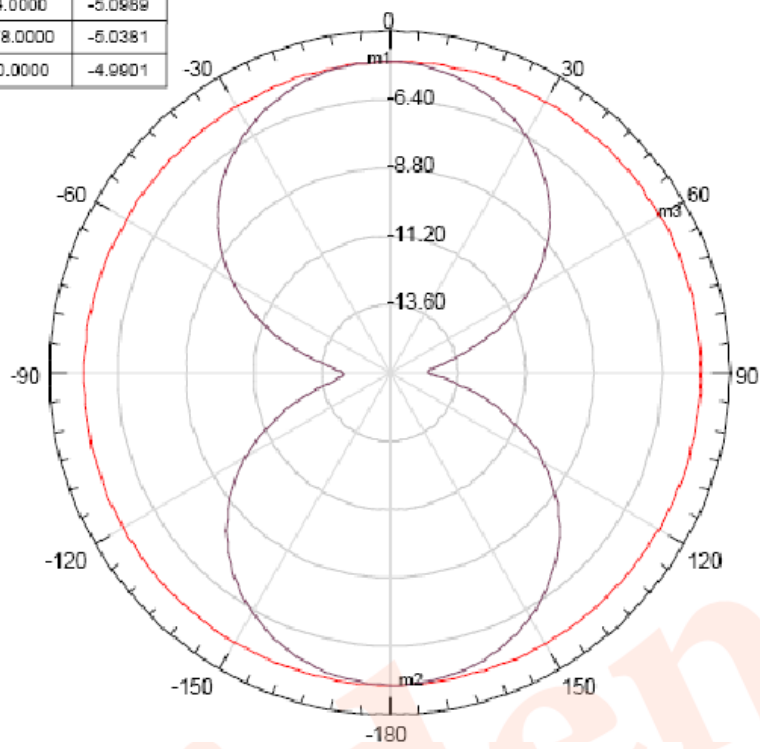
PCB antenna (mm):



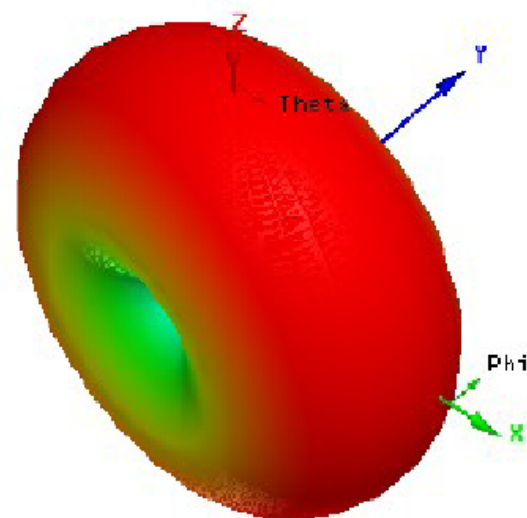
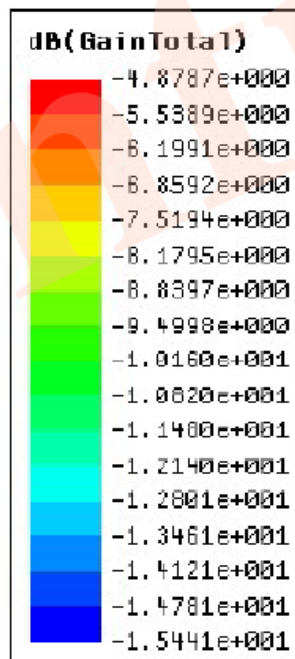
manufacturer:Unictron Technologies Corporation
address:Nanshan Science and Technology Park North
Languang Science and Technology Park A511 shenzhen



Name	Theta	Ang	Mag
m1	-4.0000	-4.0000	-5.0989
m2	178.0000	178.0000	-5.0381
m3	60.0000	60.0000	-4.9901



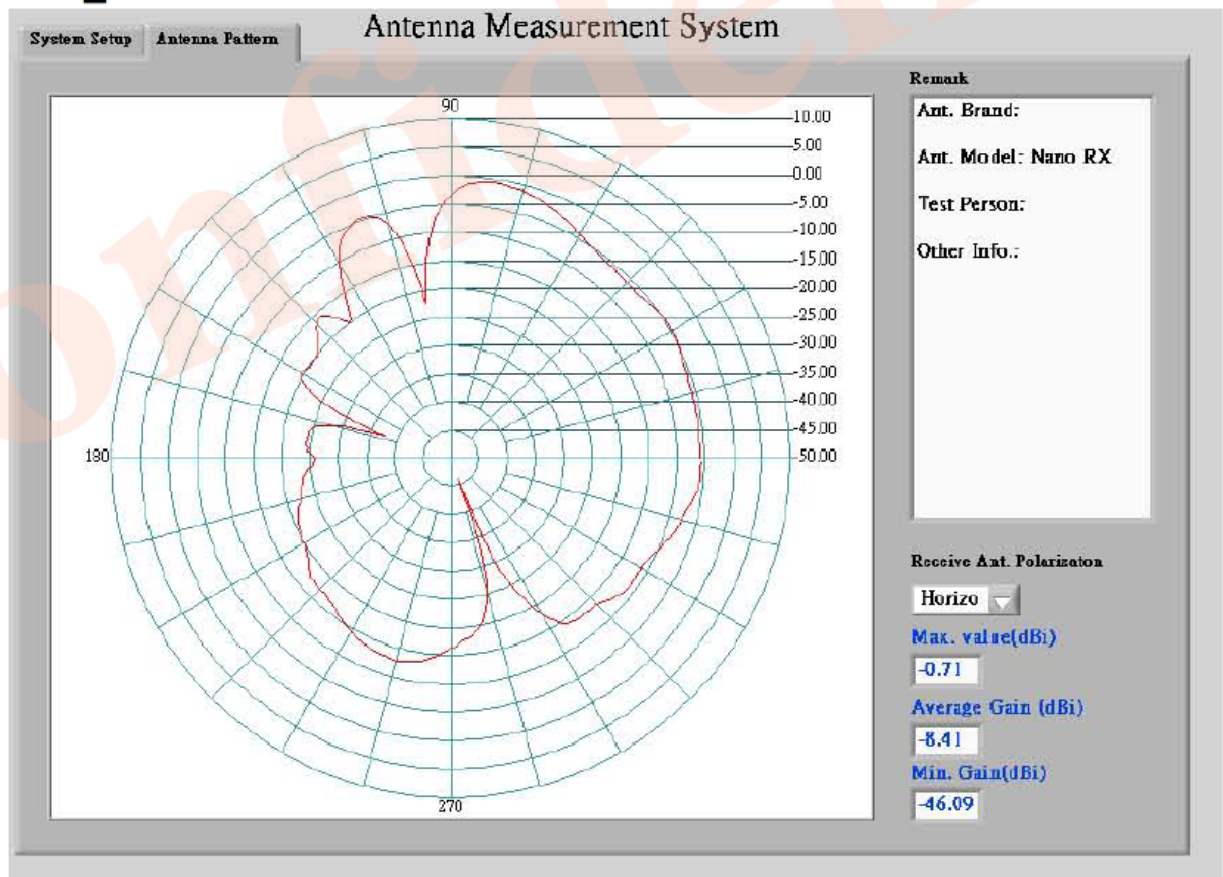
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep1	
Phi='0deg'	
—	dB(GainTotal)
Setup1 : Sweep1	
Phi='90deg'	



Summary

ITEM	SPEC.	
Antenna Type	Type_2_Single Wiggle Antenna	
Center Frequency	2400 MHz	- 0.71 dBi
	2450 MHz	- 0.84 dBi
	2500 MHz	- 1.75 dBi
Max. GAIN	- 0.71 dBi	
Mini. GAIN	- 1.75 dBi	
AVG GAIN	- 8.4 dBi	
DUT Polarization	Horizontal & Vertical	
TEST Output Power Level	10dBm	
Impedance	50 Ω	

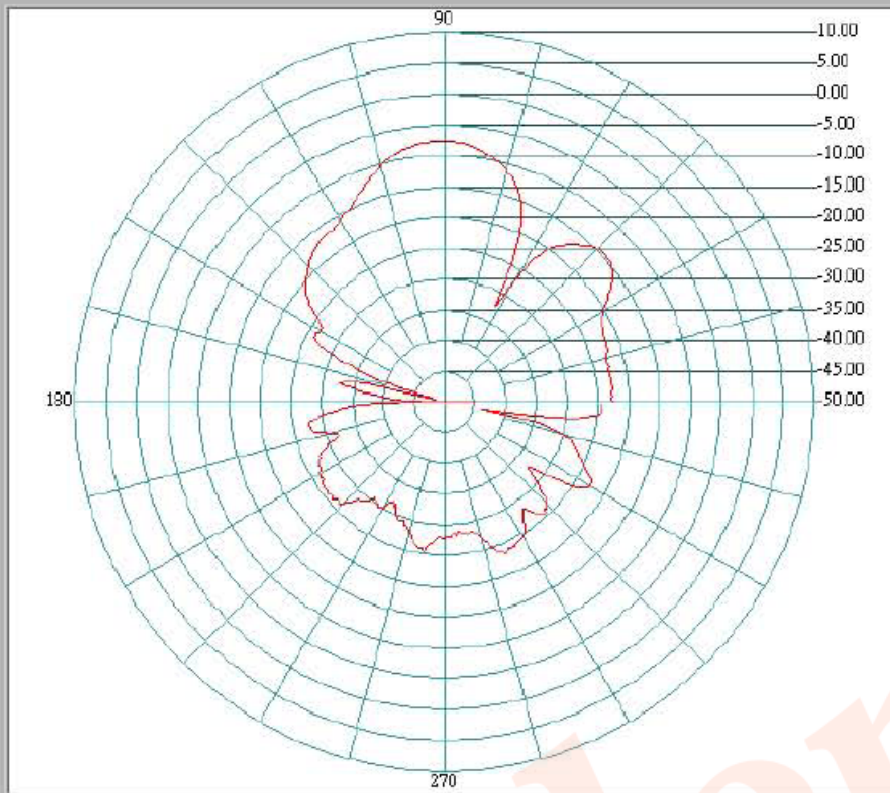
Center Frequency_2400MHz
* DUT_ Horizontal



Antenna Measurement System

System Setup

Antenna Pattern



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-7.73

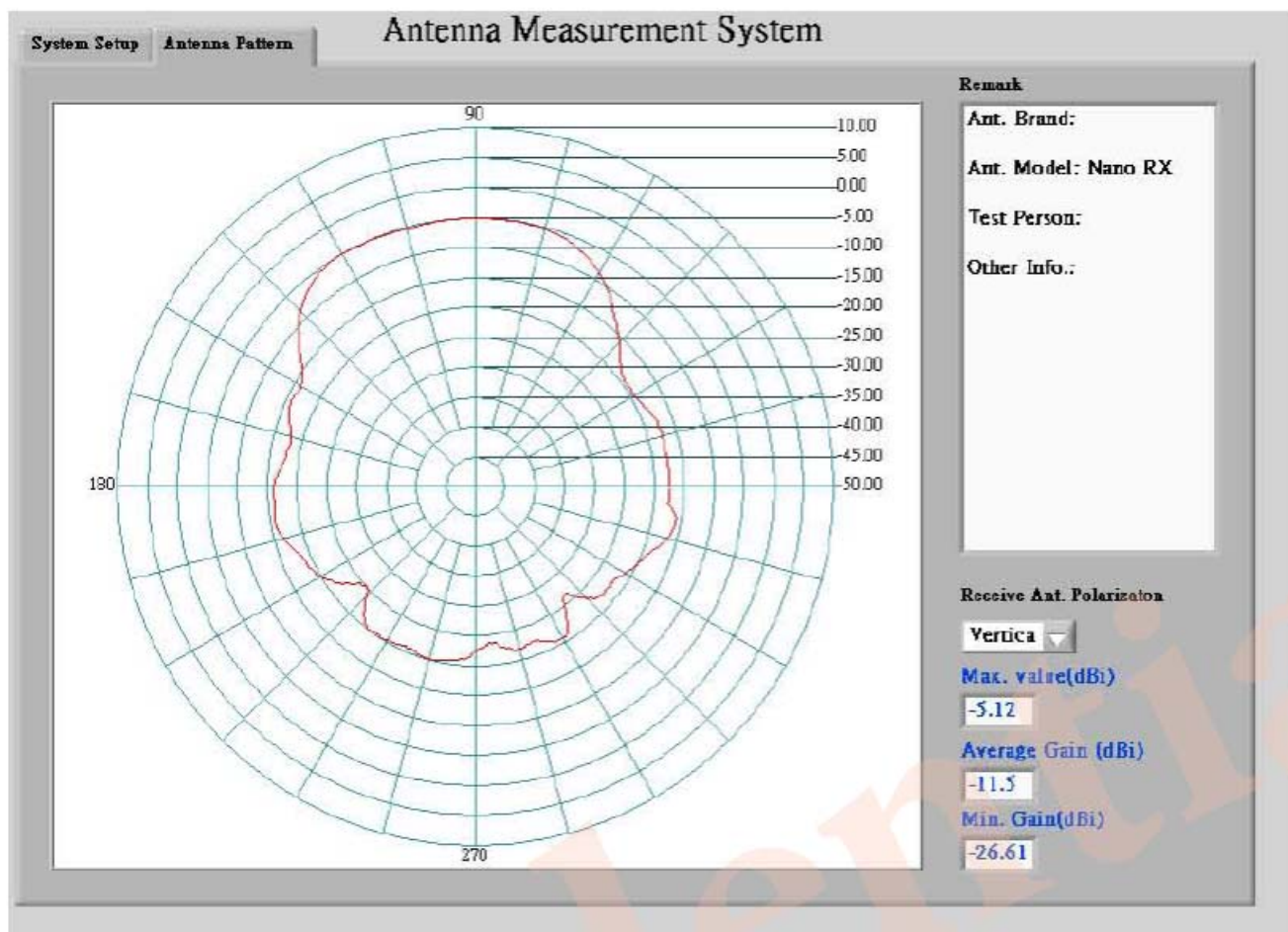
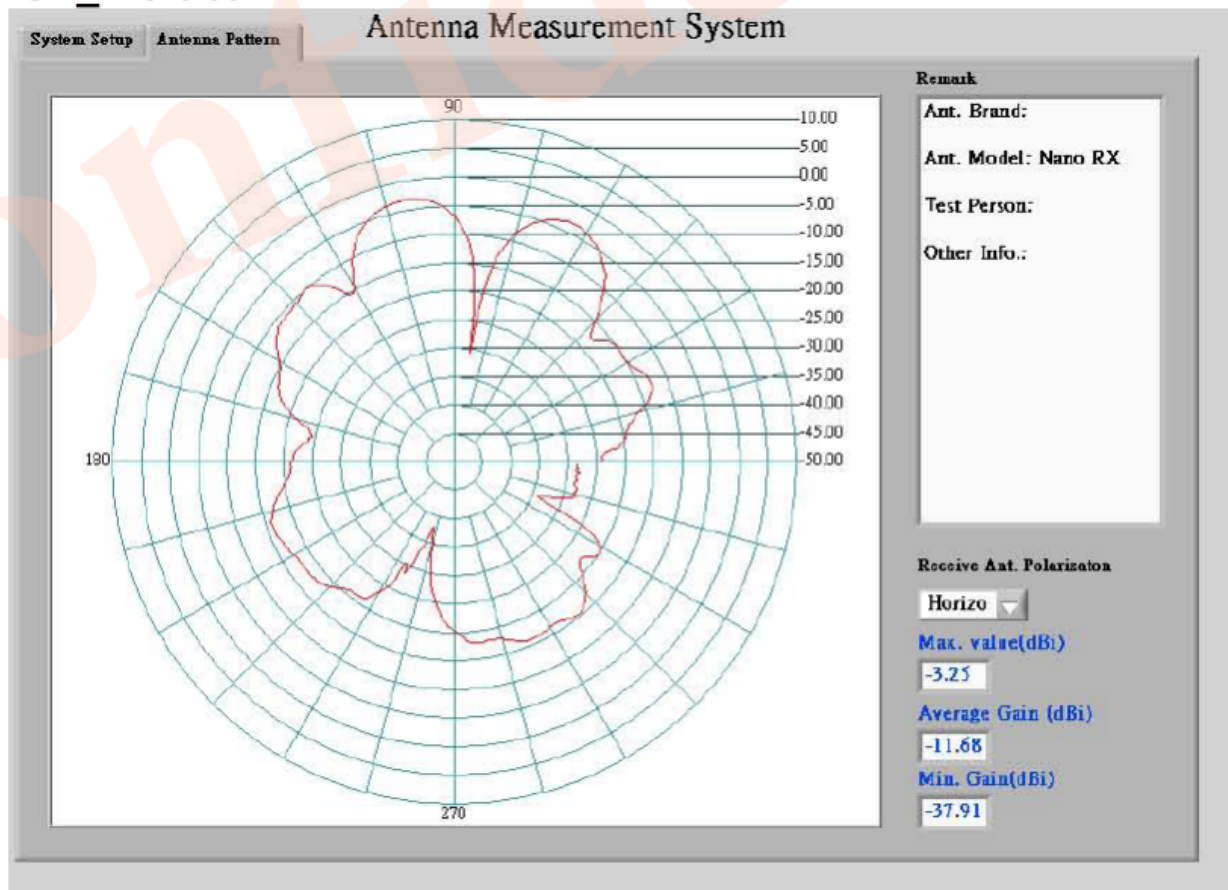
Average Gain (dBi)

-17.19

Min. Gain(dBi)

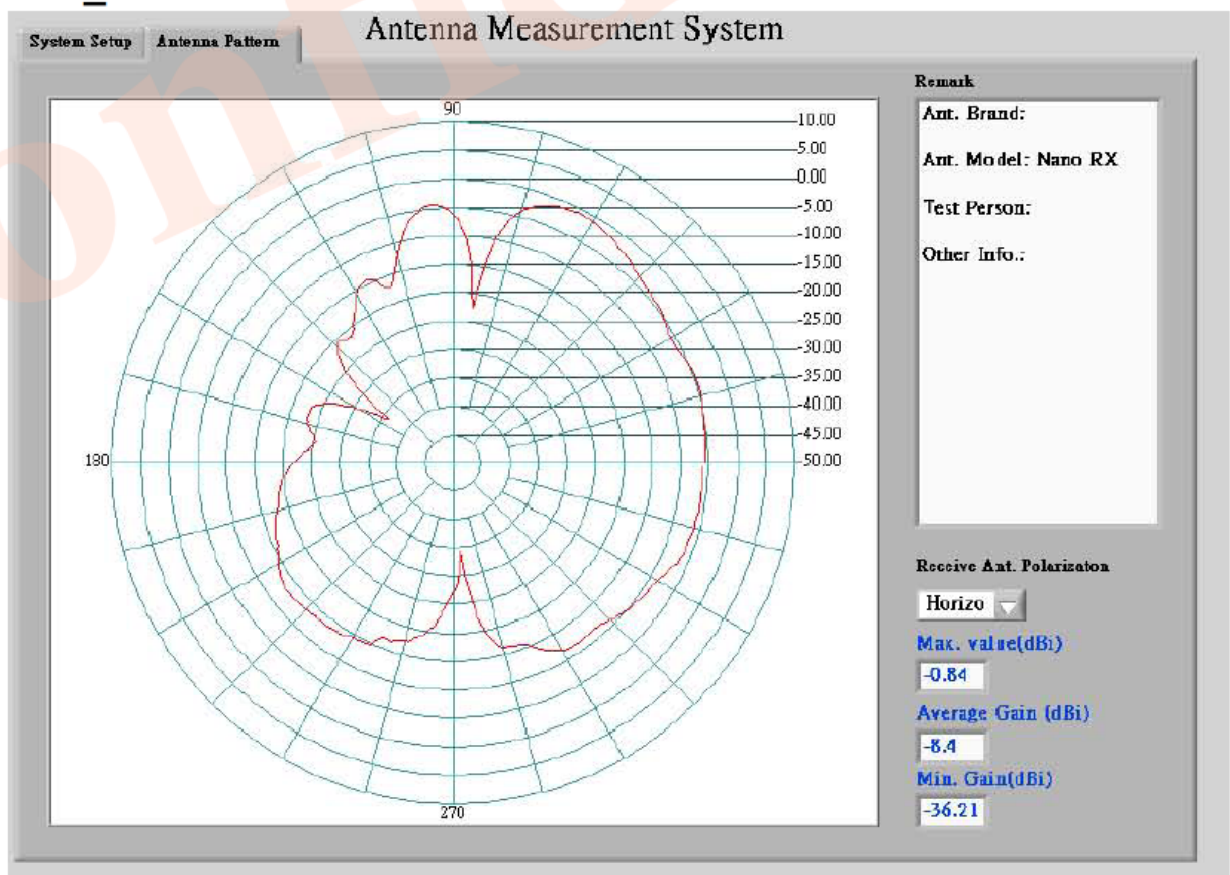
-55.15

* DUT_Verical



Center Frequency_2450MHz

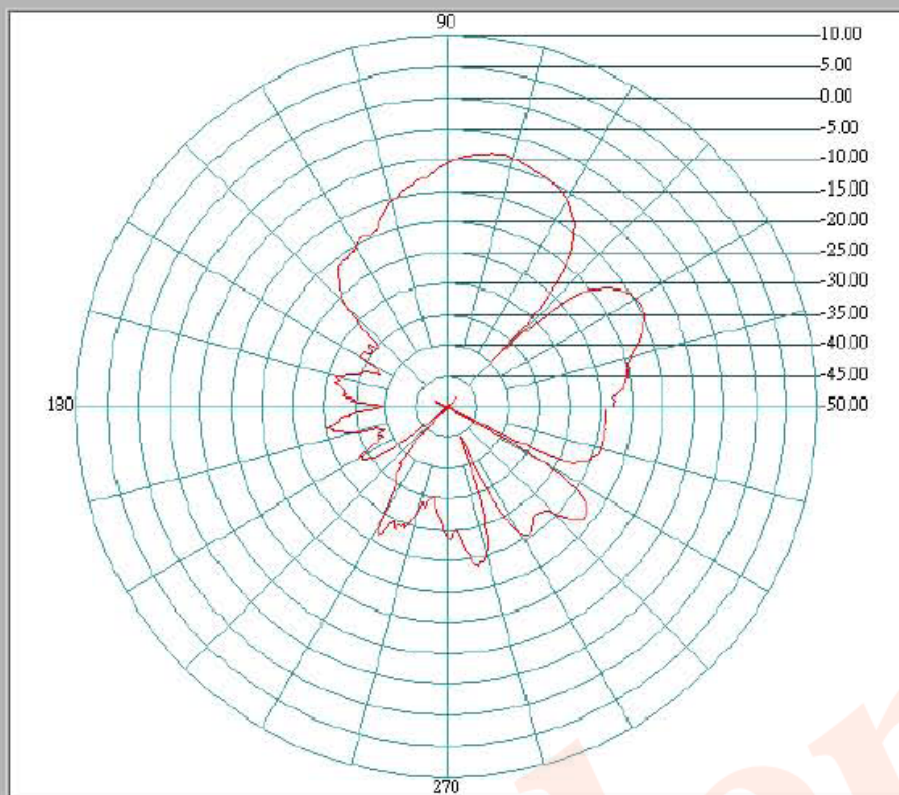
* DUT_ Horizontal



System Setup

Antenna Pattern

Antenna Measurement System



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-8.3

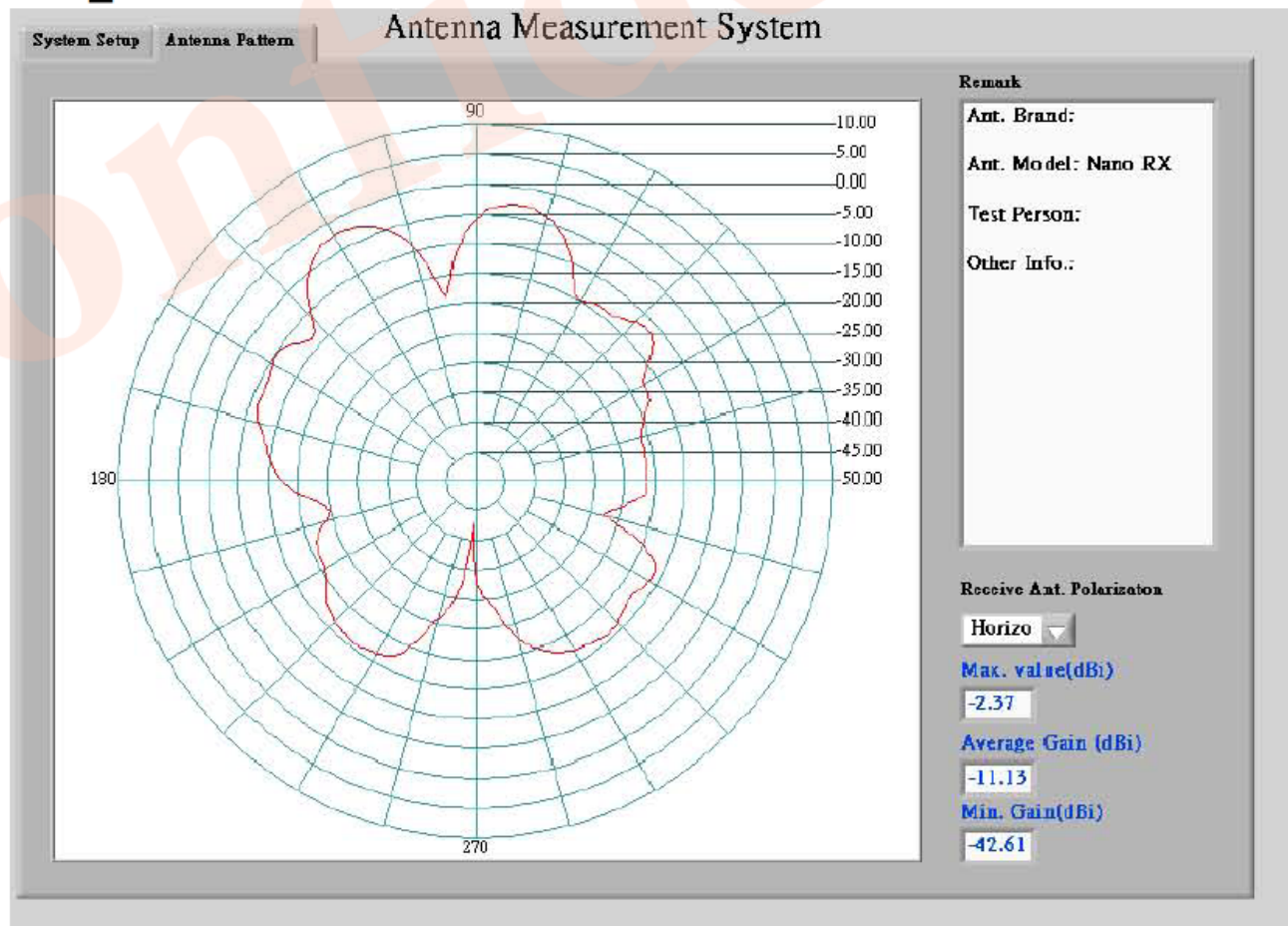
Average Gain (dBi)

-17.74

Min. Gain(dBi)

-52.24

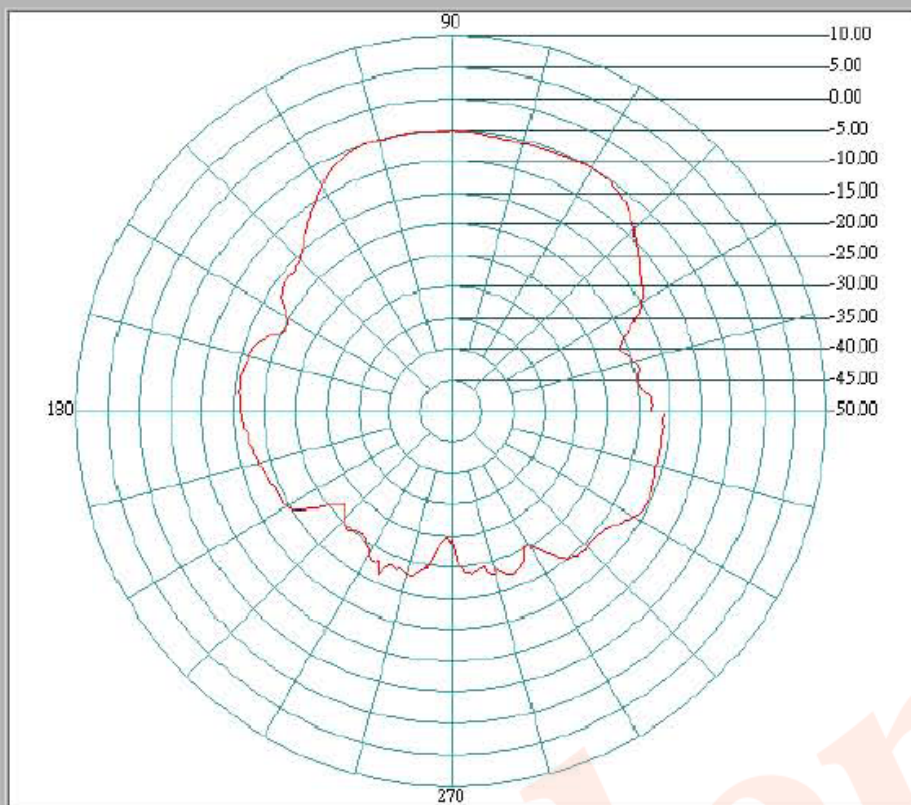
* DUT_ Vertical



System Setup

Antenna Pattern

Antenna Measurement System



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-5.09

Average Gain (dBi)

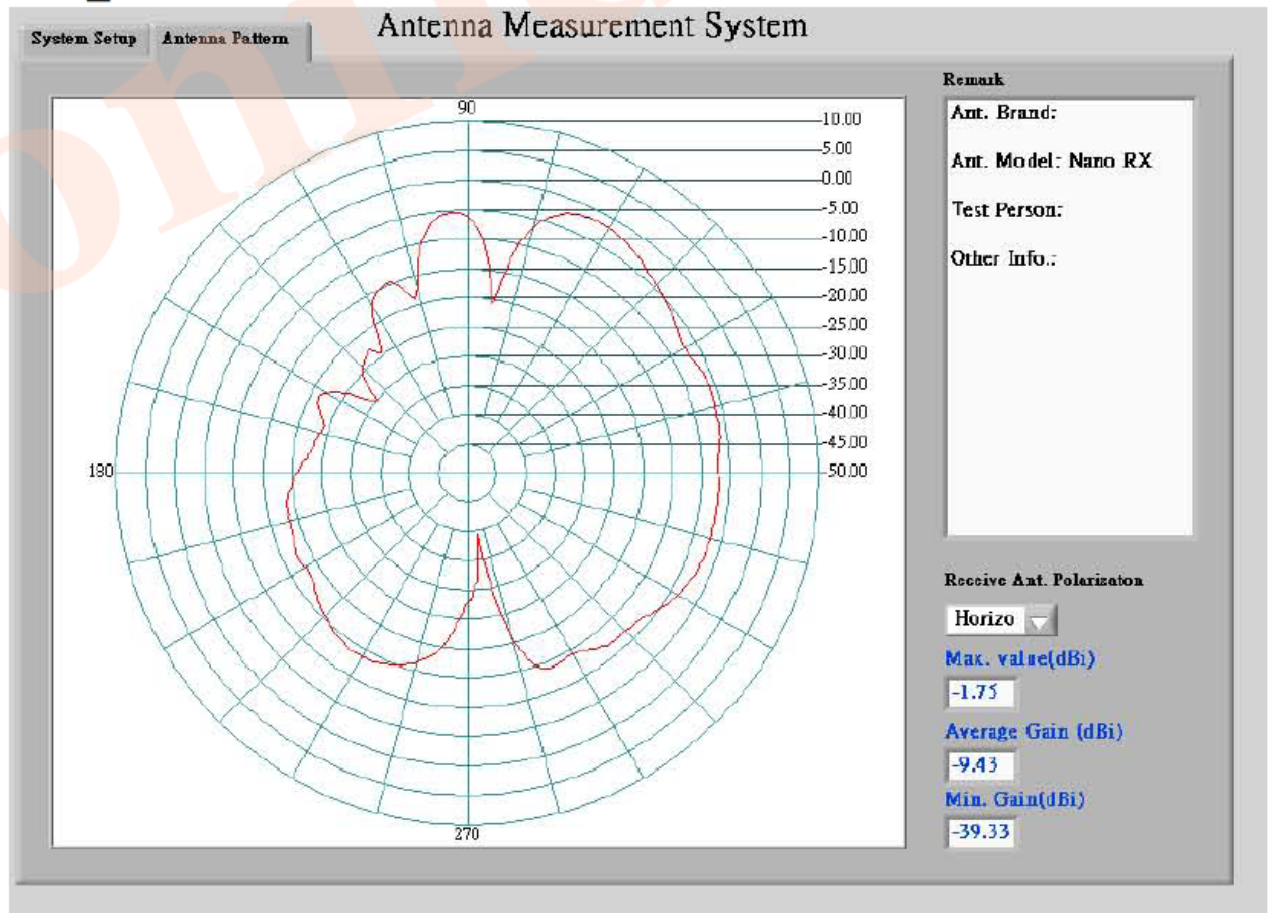
-11.46

Min. Gain(dBi)

-29.87

Center Frequency_2500MHz

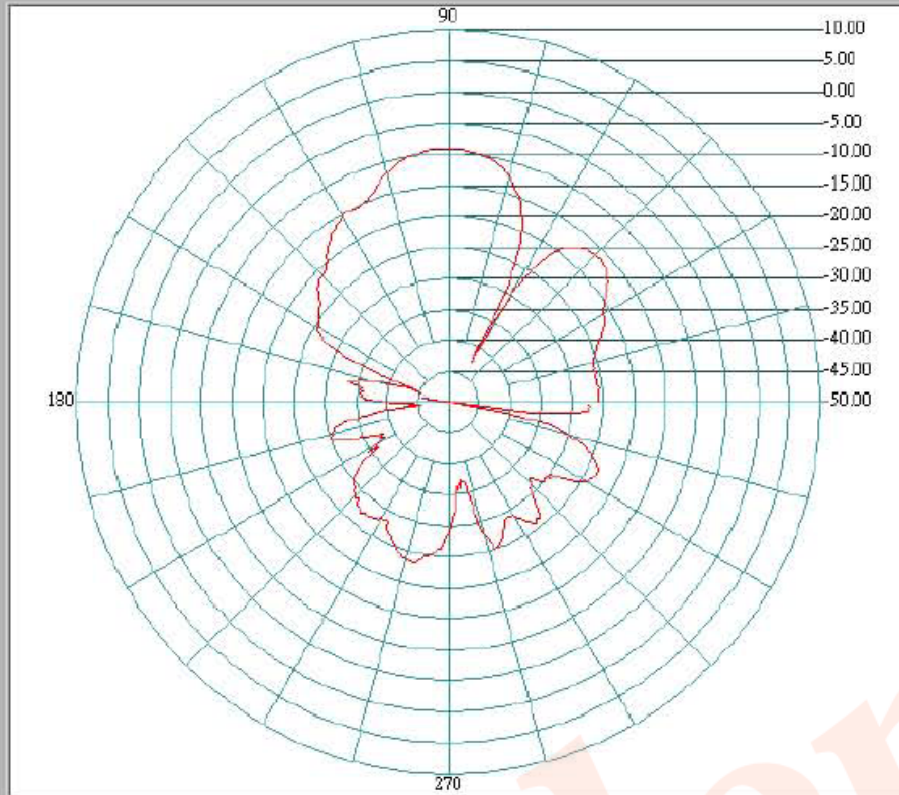
* DUT_ Horizontal



System Setup

Antenna Pattern

Antenna Measurement System



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-9.14

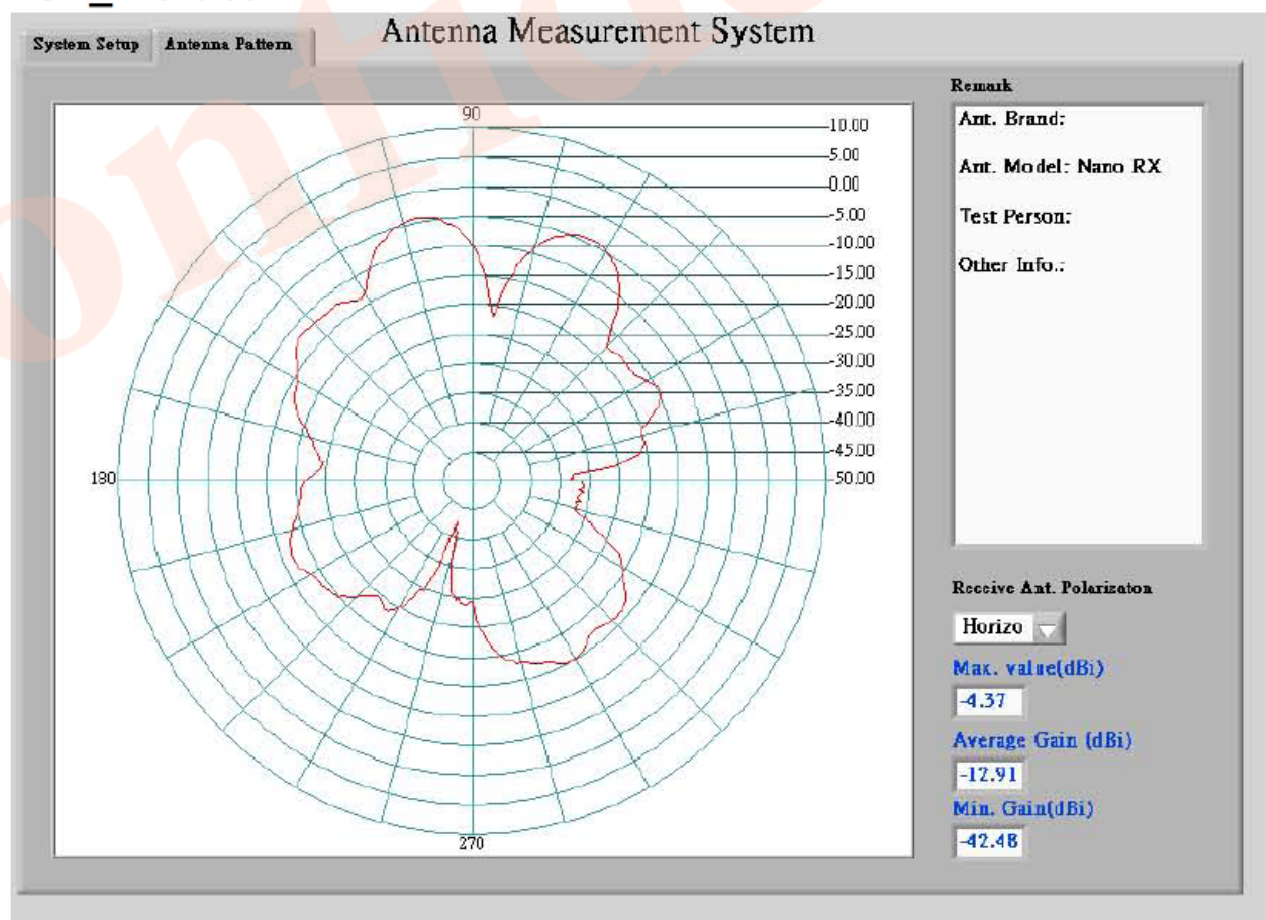
Average Gain (dBi)

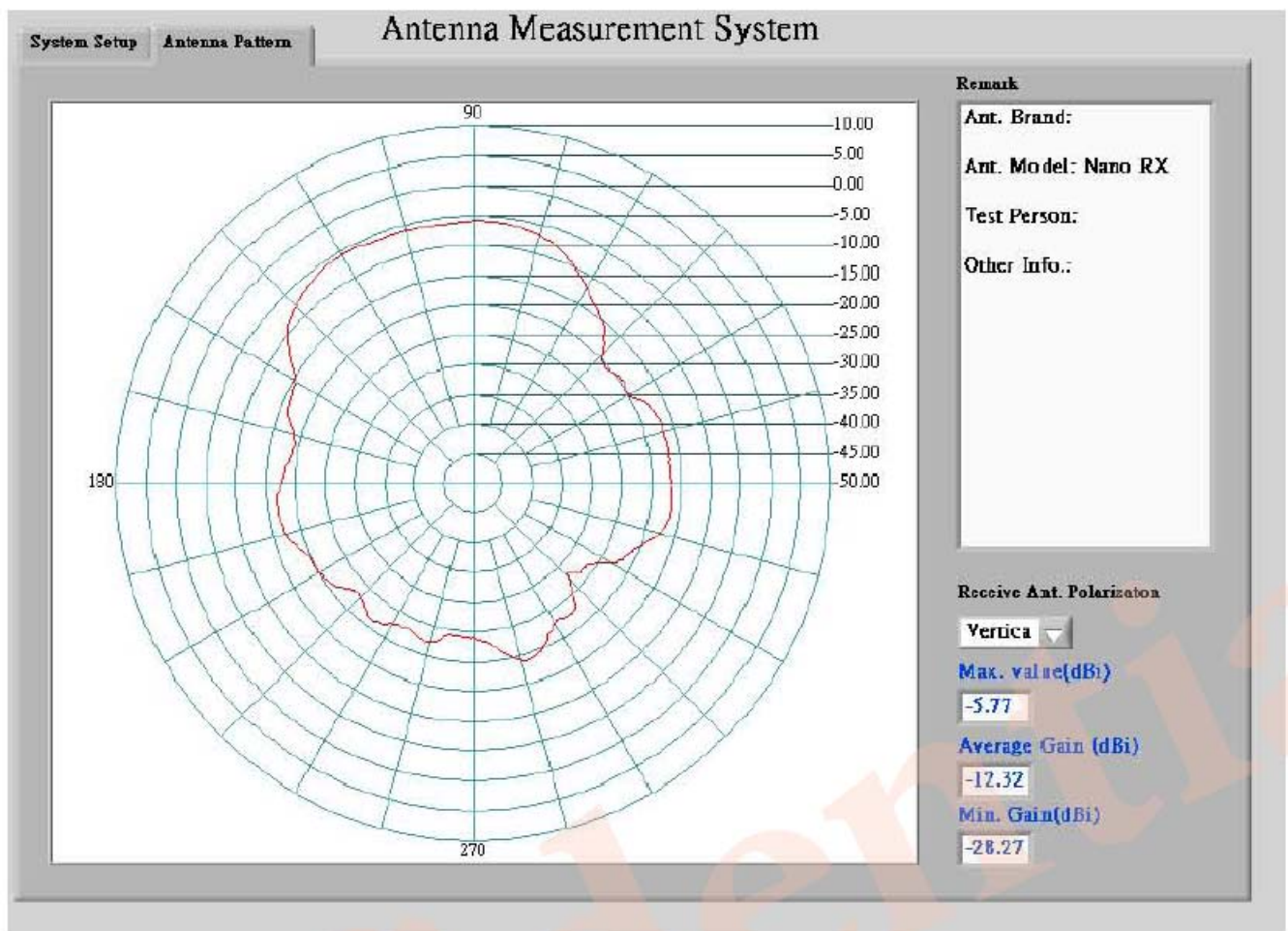
-18.54

Min. Gain(dBi)

-54.11

* DUT_ Vertical





5.結論

經由上面的綜合量測後可得知此款天線的增益確實只可達到-5dBi左右其最大的增益約在-0.71dBi.

After the above comprehensive measurements, it can be seen that the gain of this antenna is indeed only about -5dBi, and its maximum gain is about -0.71dBi