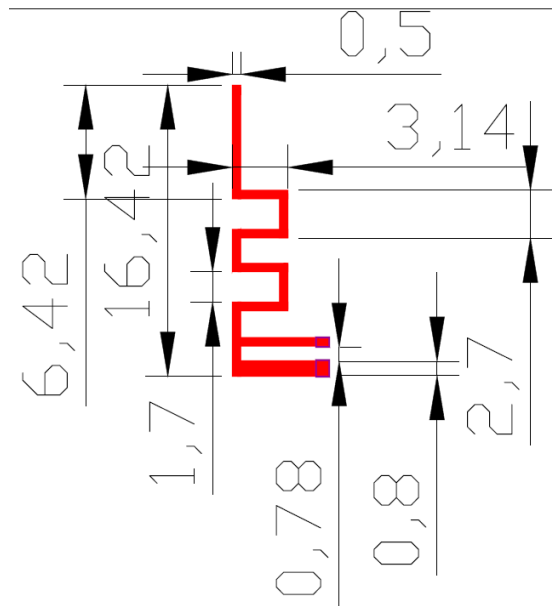


## SHENZHEN LXD-TECH Co., LTD

### PCB Antenna specification&Test report

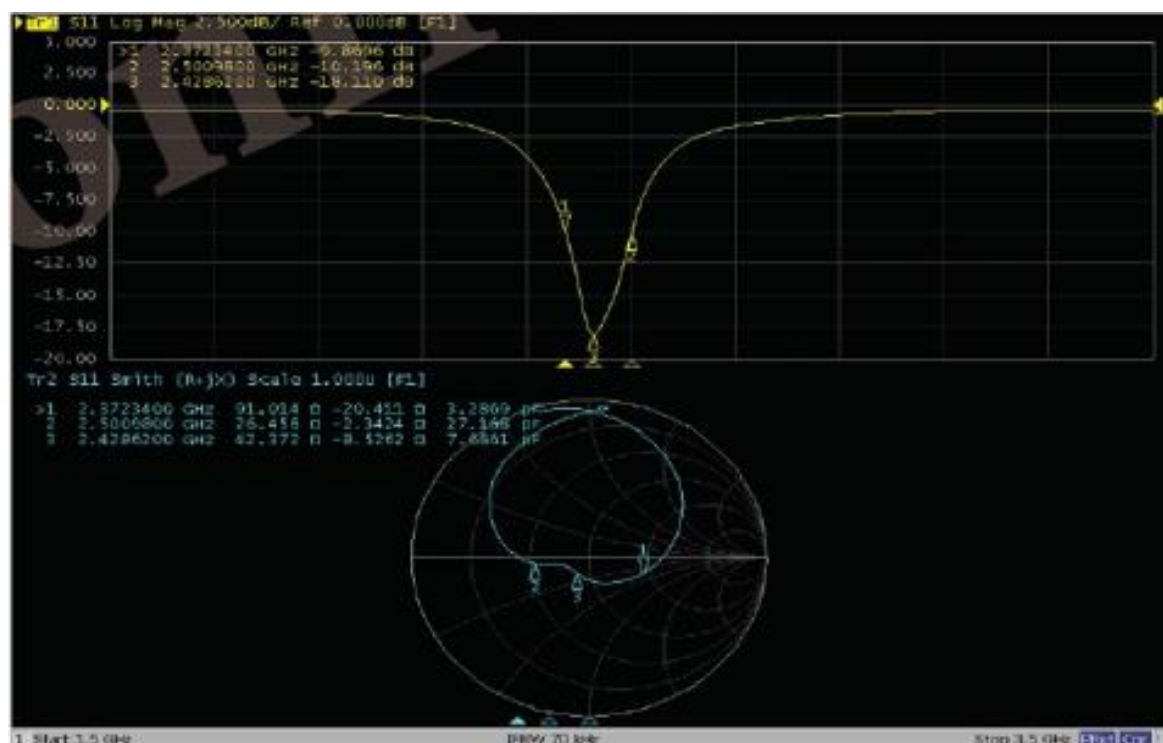
|         |                                                                            |
|---------|----------------------------------------------------------------------------|
| Company | SHENZHEN LXD-TECH Co., LTD                                                 |
| Address | Floor 3, No. 87, Fanshen Road, Xin'an Street, Bao'an District,<br>Shenzhen |
| Model   | Fxr-antenna-01                                                             |

## 1. Specific size of antenna (mm):

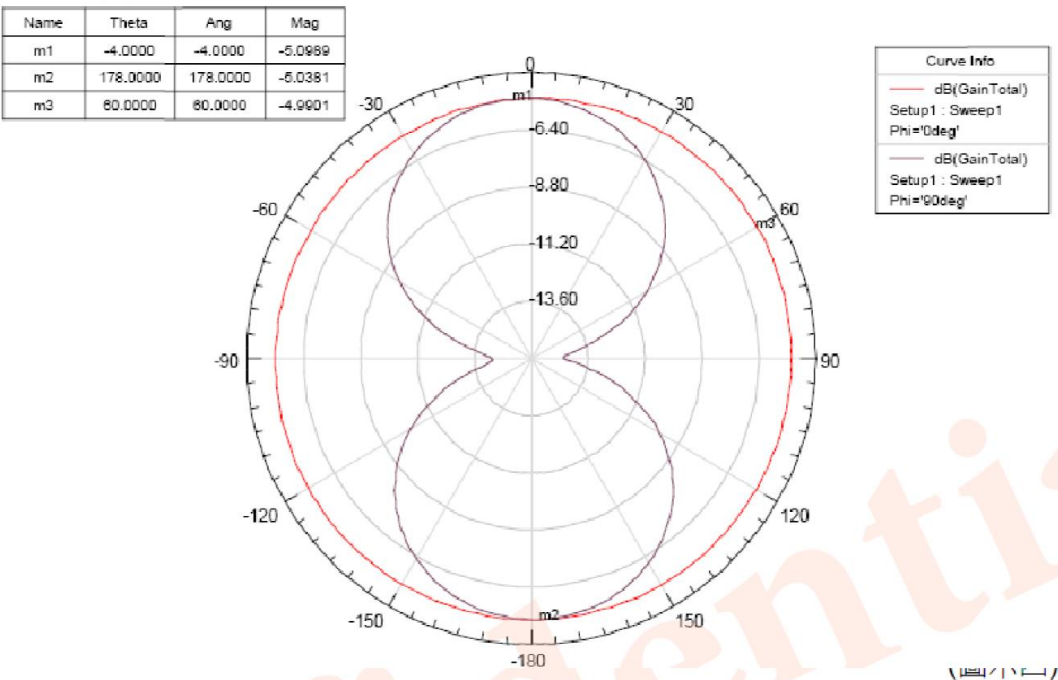


## 2. The results of antenna measurement and field shape simulation are as follows:

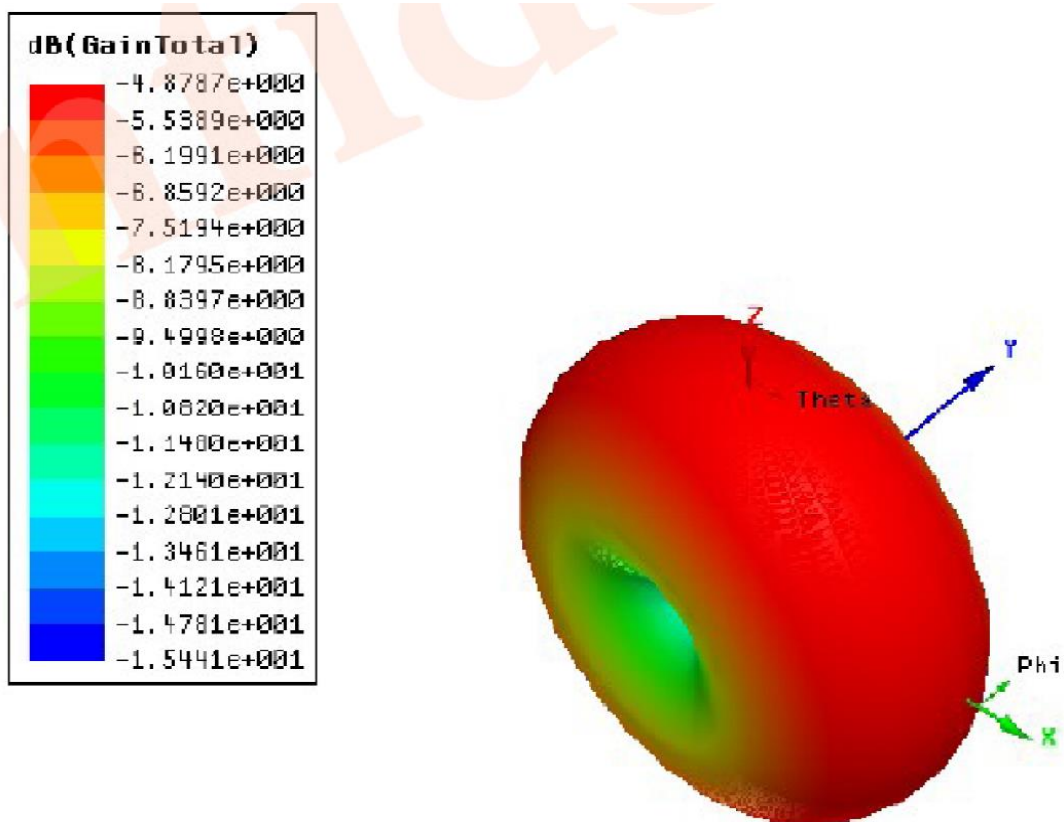
### \*Return Loss/VSWR:



**\*2D Field shape simulation diagram:**



**\*3D Field shape simulation diagram:**



According to the above measurement and simulation, the gain of this antenna can only reach about – 5dBi.

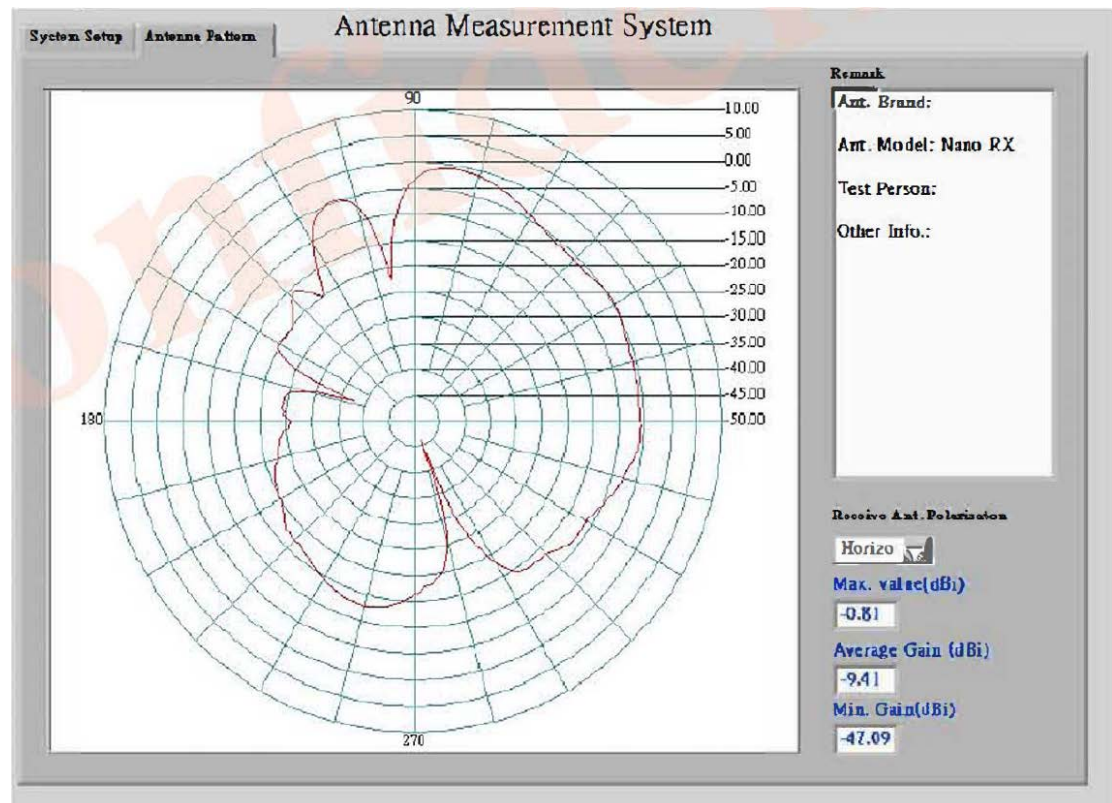
3.The actual field shape (strength) of the antenna is tested as follows:

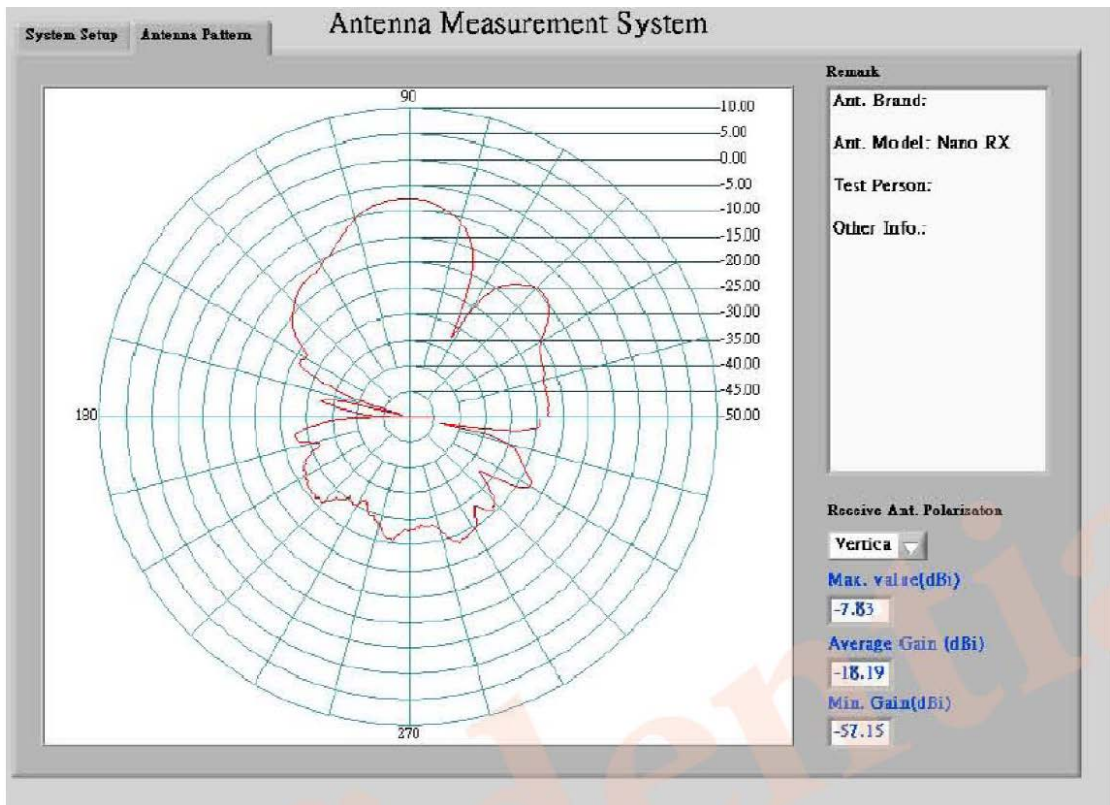
Summary

| ITEM                    | SPEC.                 |           |
|-------------------------|-----------------------|-----------|
| Antenna Type            | PCB Antenna           |           |
| Center Frequency        | 2402MHz               | -0.81 dBi |
|                         | 2439MHz               | -0.94 dBi |
|                         | 2480MHz               | -1.95 dBi |
| Max. GAIN               | -0.81 dBi             |           |
| Mini. GAIN              | -57.15 dBi            |           |
| AVG GAIN                | -9.4 dBi              |           |
| DUT Polarization        | Horizontal & Vertical |           |
| TEST Output Power Level | 10dBm                 |           |
| Impedance               | 50Ω                   |           |

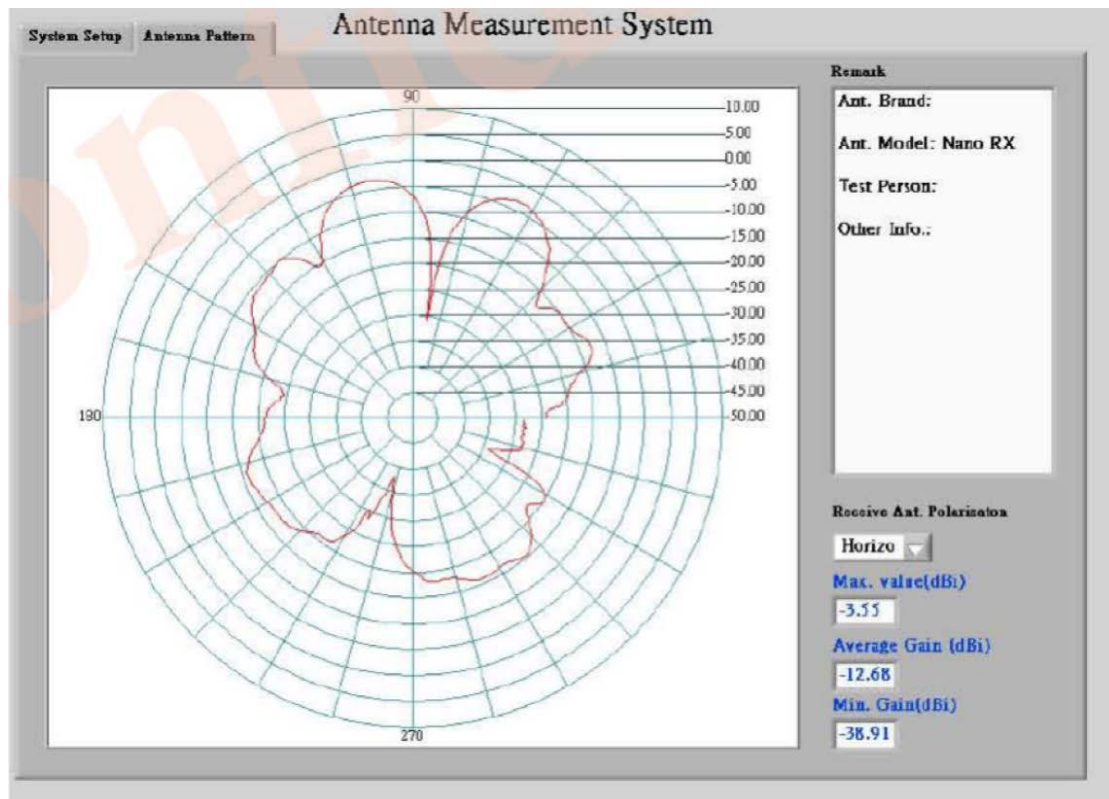
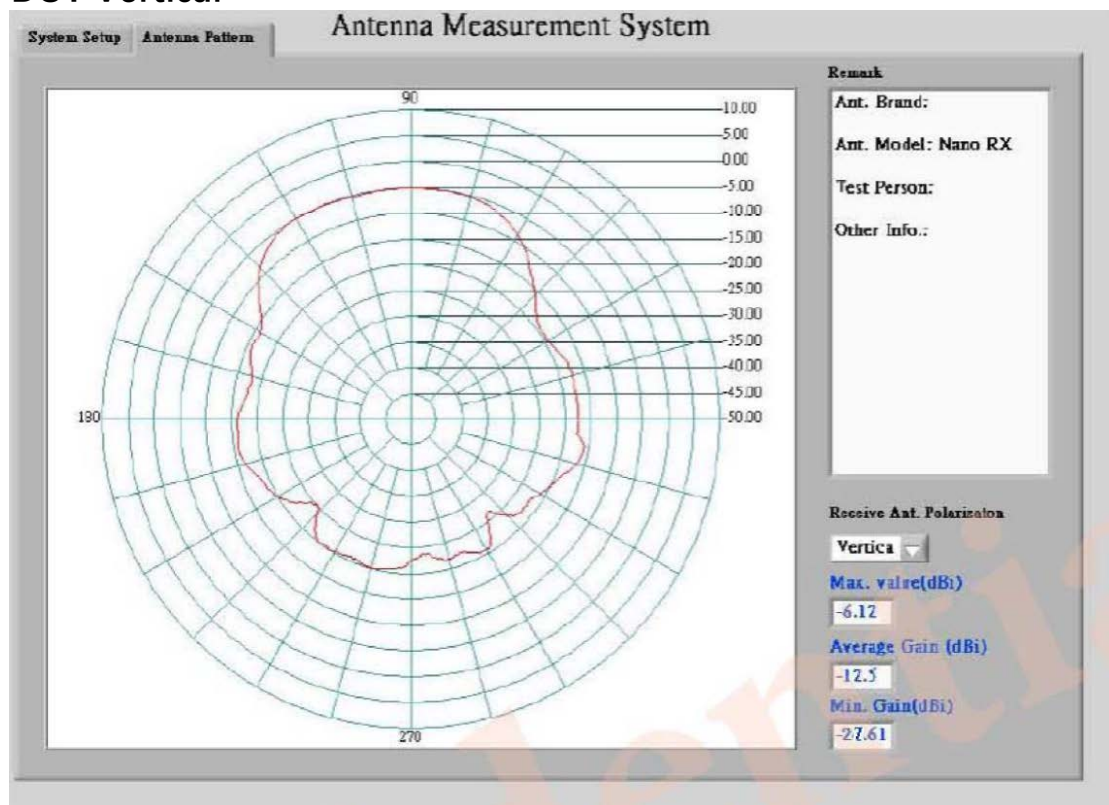
Center Frequency \_2402MHz

\*DUT Horizontal



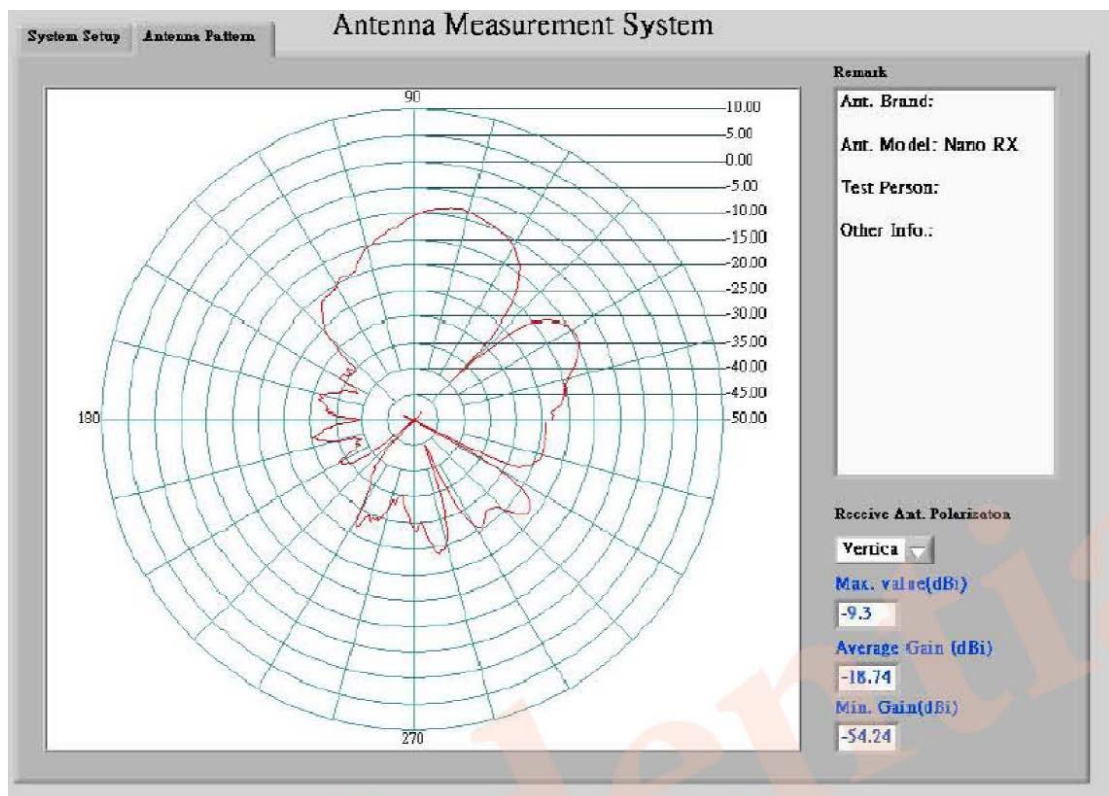
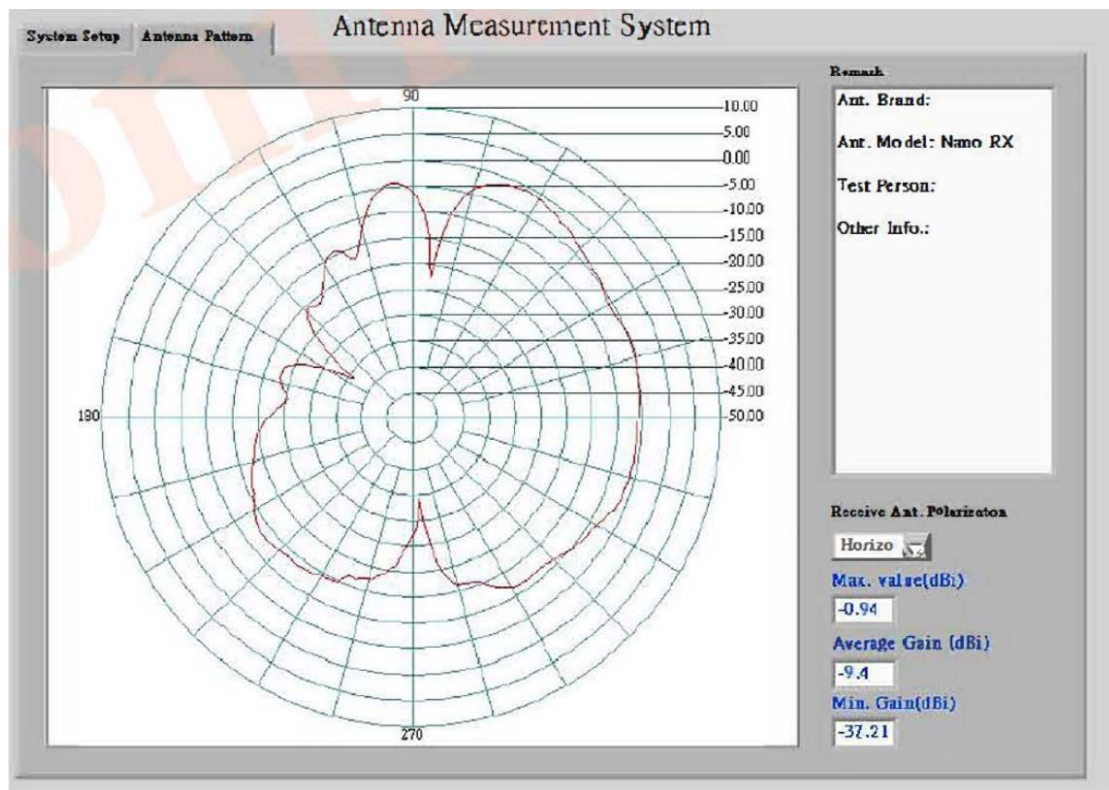


## \*DUT Vertical

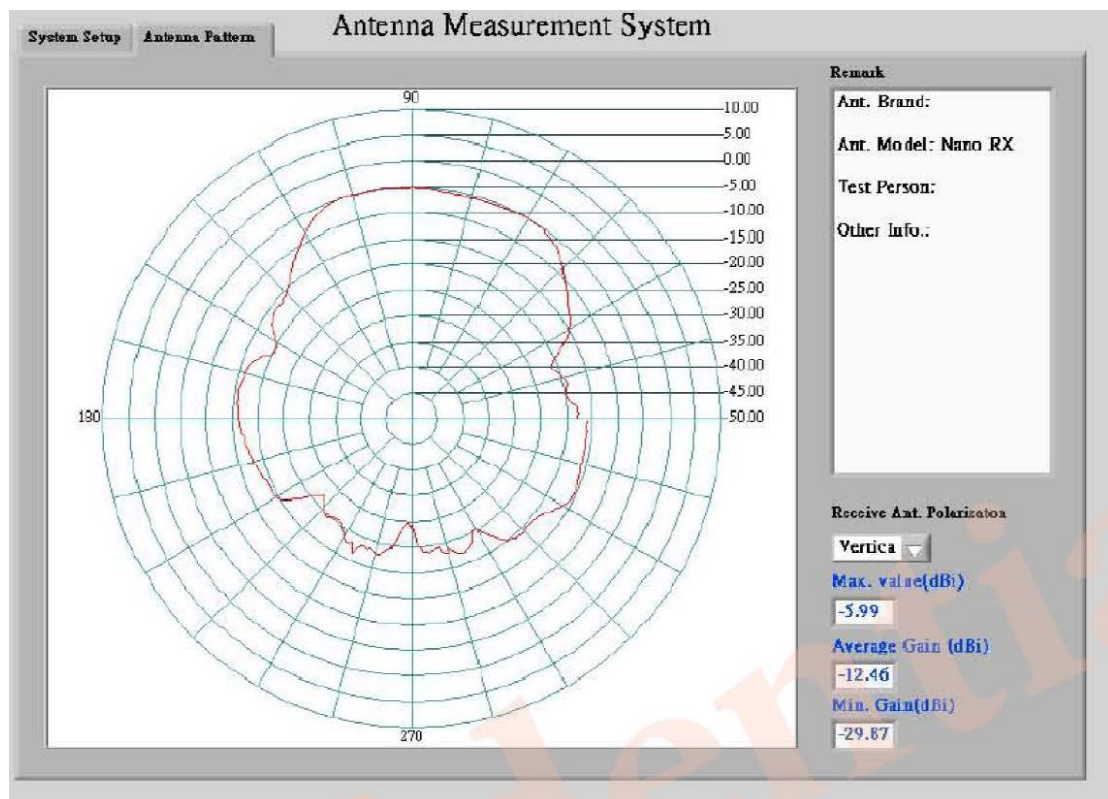
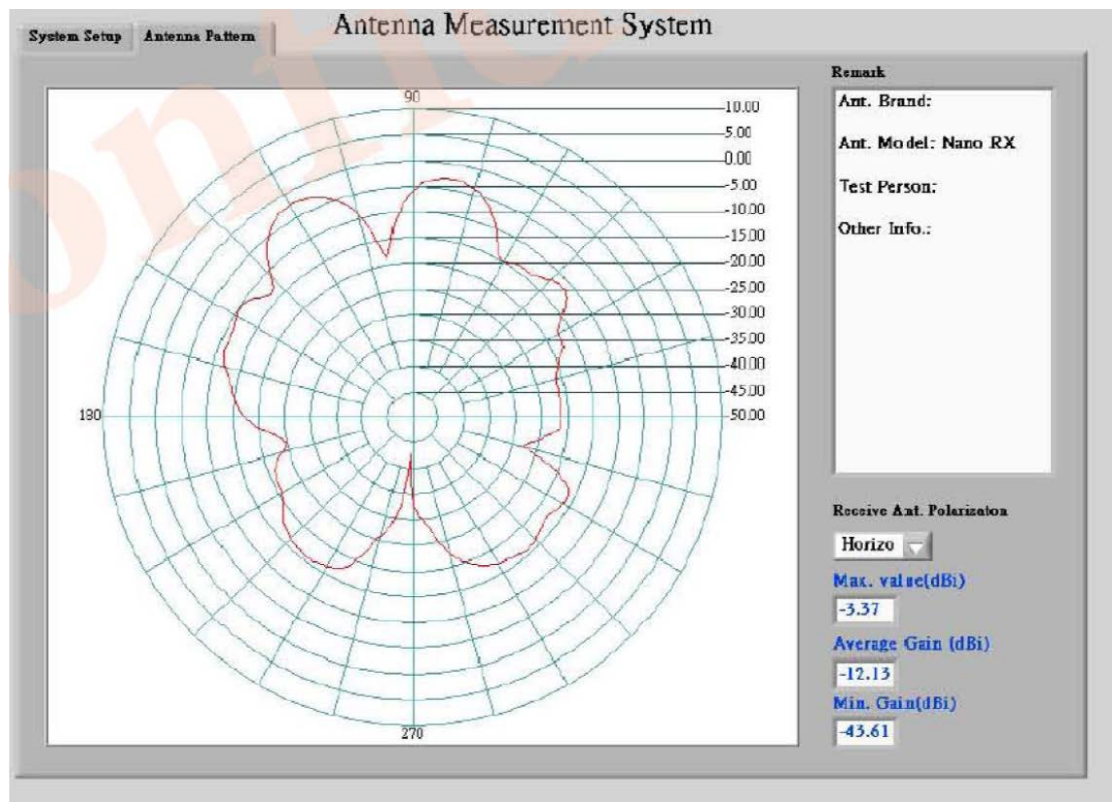


Center Frequency 2439MHz

\*DUT Horizontal

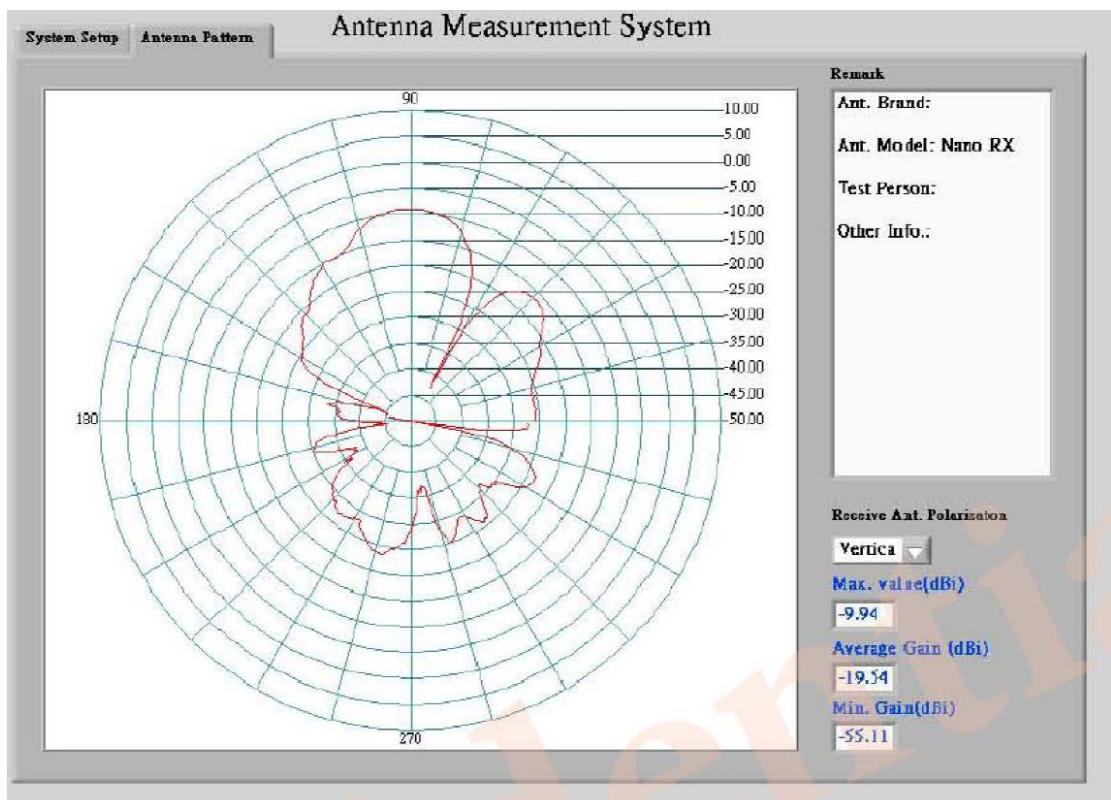
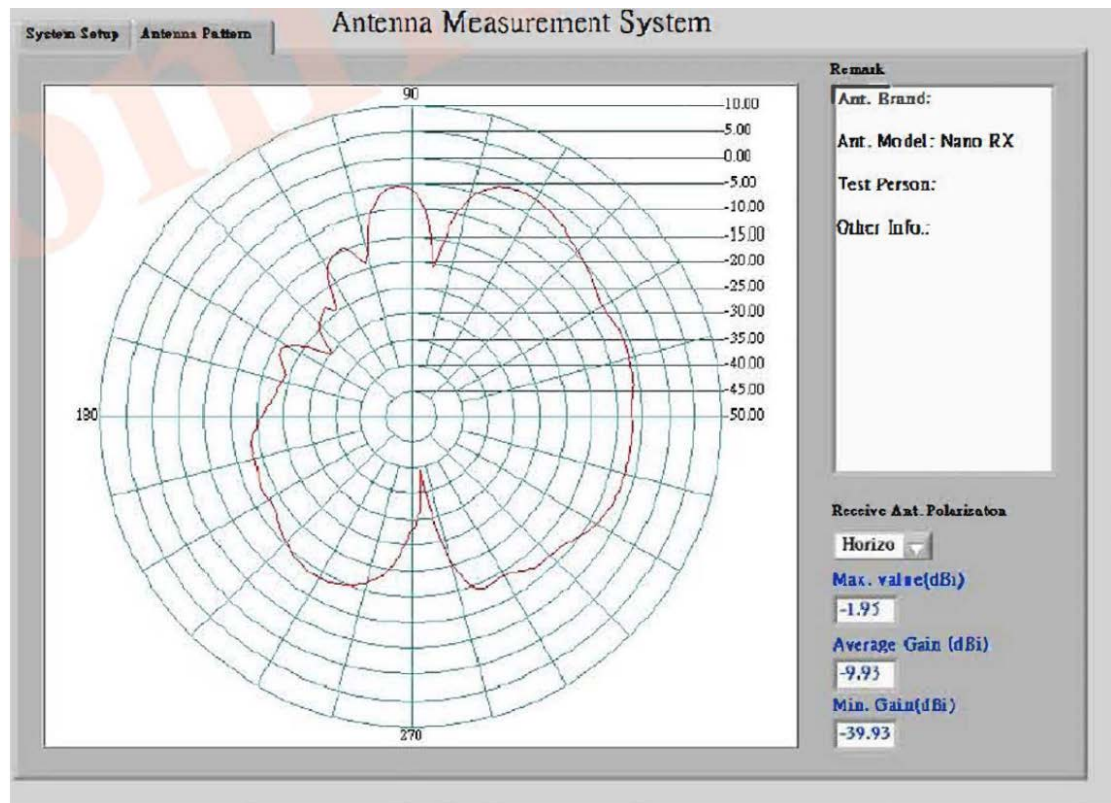


## \*DUT Vertical

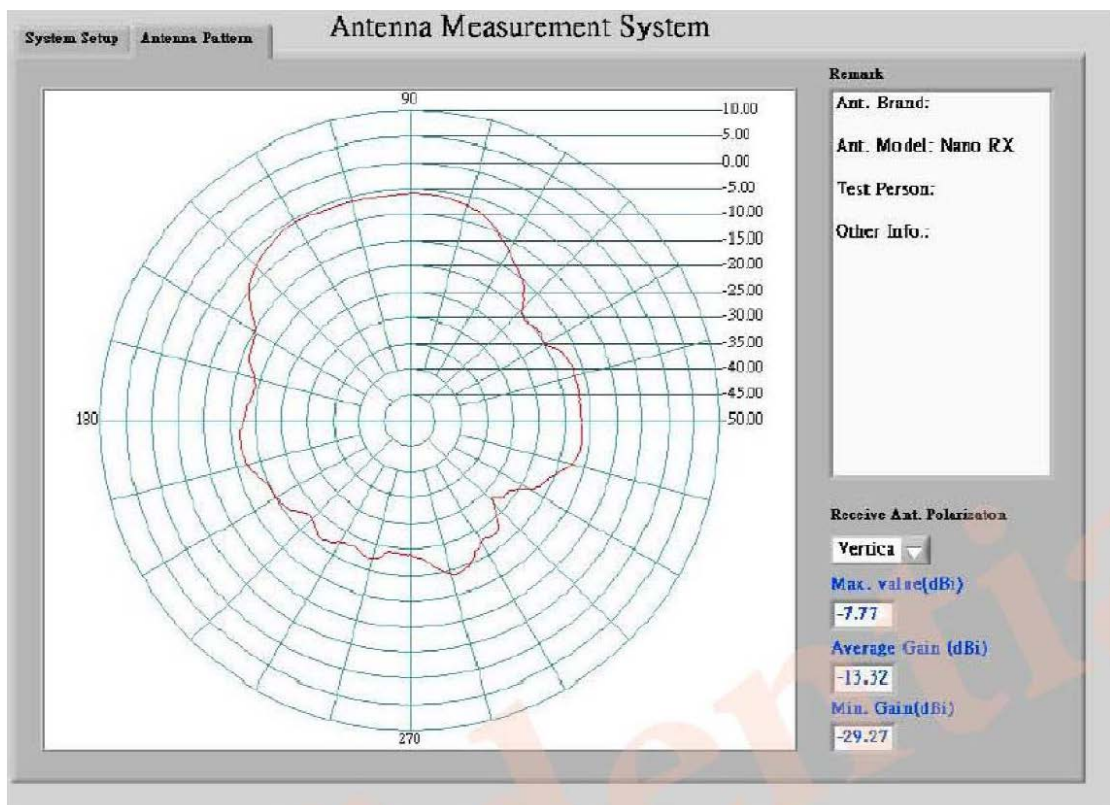
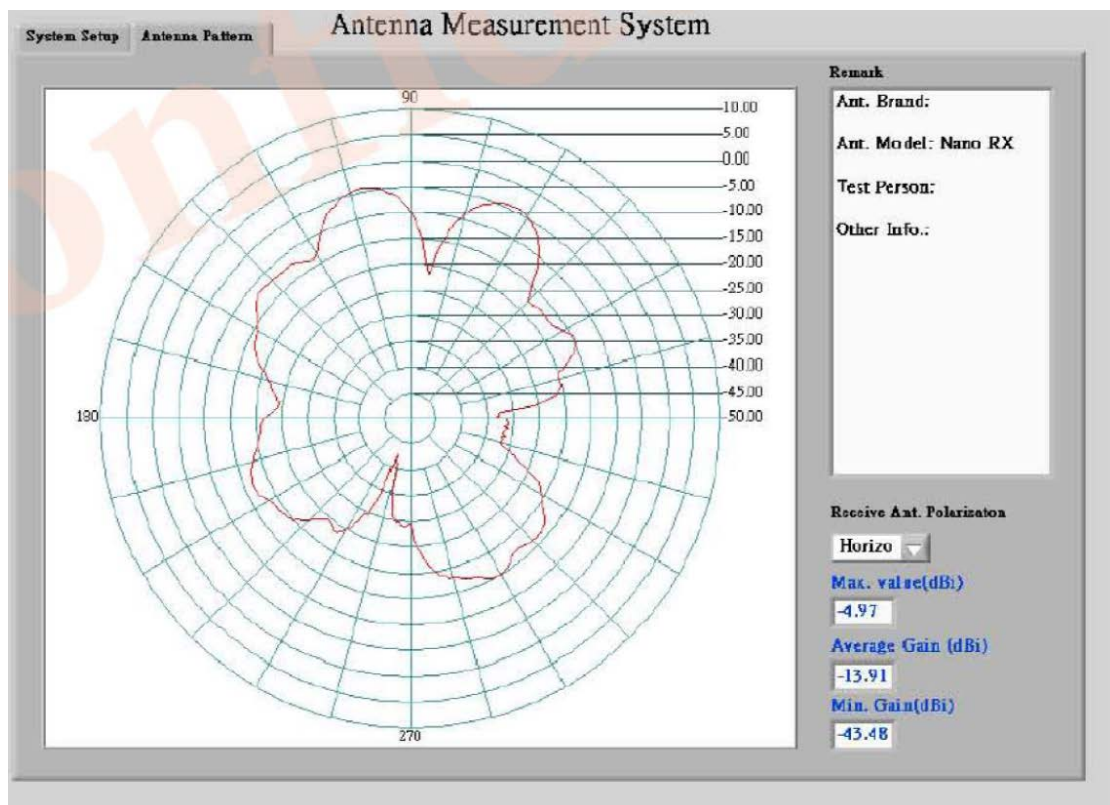


Center Frequency 2480MHz

\*DUT Horizontal



## \*DUT Vertical



#### **4. Conclusion:**

Through the above comprehensive measurement, we can know that the gain of this antenna can only reach about - 5dBi, and its maximum gain is about -0.81dBi