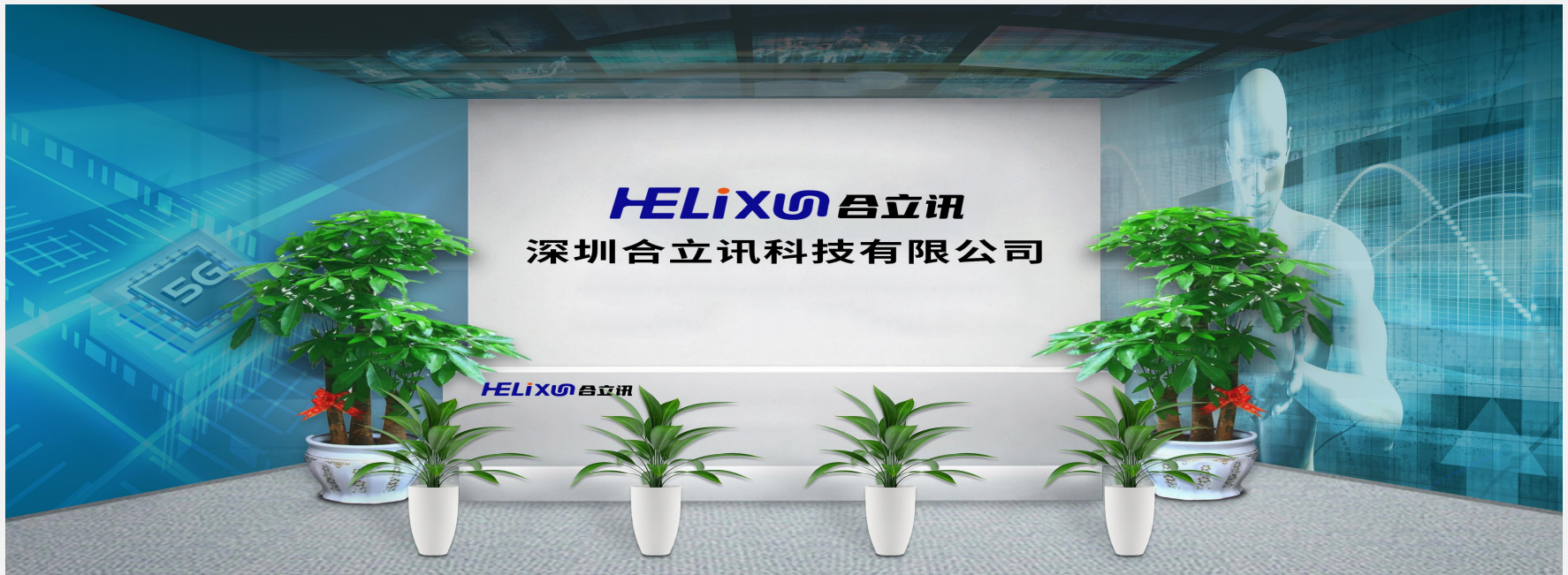


# Antenna Test Report



|                  |              |
|------------------|--------------|
| Customer         | 佳利得          |
| Project          | A500         |
| Antenna Revision | A0           |
| Prepared by      | 15993920520  |
| Checked by       | 17279710721  |
| Date             | 2023. 12. 11 |

## ***Purpose***

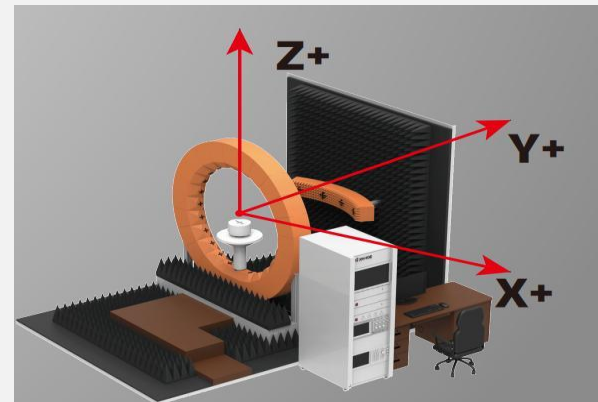
This report is to measure the performance of antenna for **A500** The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

## ***Content***

1. Test system
2. Product Overview Dimension
3. Test Result
  - 3.1 S11 Parameter
  - 3.2 Gain & Efficiency
  - 3.3 2D Pattern

## 1. Test System

| Sequence Number   | Test Item         | equipment                     |
|-------------------|-------------------|-------------------------------|
| S parameter       | VSWR              | Agilent 5071C & Agilent 5071B |
| OTA Test          | TRP&TIS           | Agilent 8960 & CMW500 STIMO   |
| Gain & Efficiency | Gain & Efficiency | SATIMO<br>Agilent 5071C       |

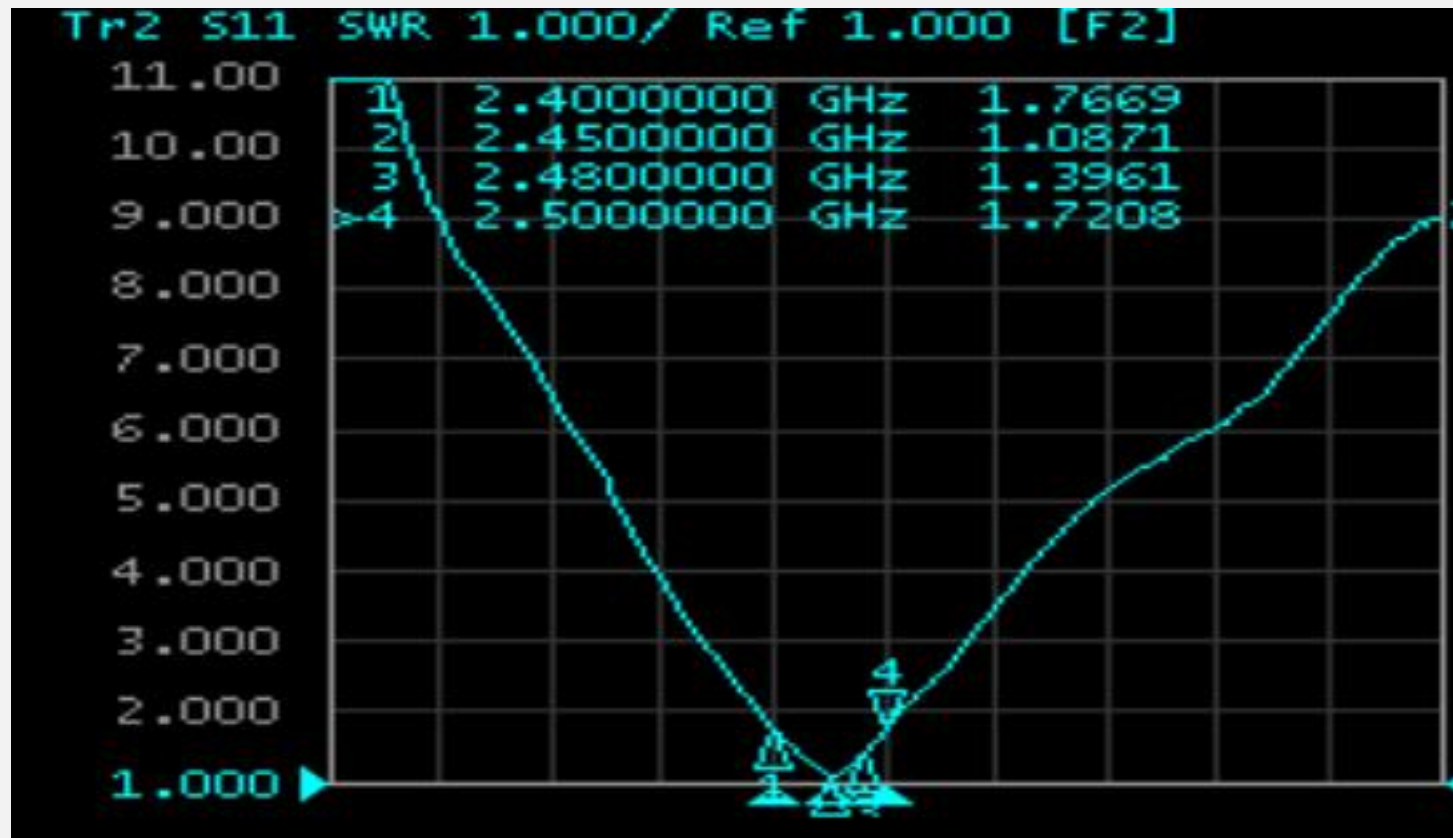


## ***2.Product Overview & Dimension***



## 3.Test Result

### 3.1 S11 Parameter-VSWR



|                    |      |      |      |      |
|--------------------|------|------|------|------|
| requeency<br>(MHz) | 2400 | 2450 | 2480 | 2500 |
| VSWR               | 1.76 | 1.08 | 1.39 | 1.72 |

## 3. Test Result

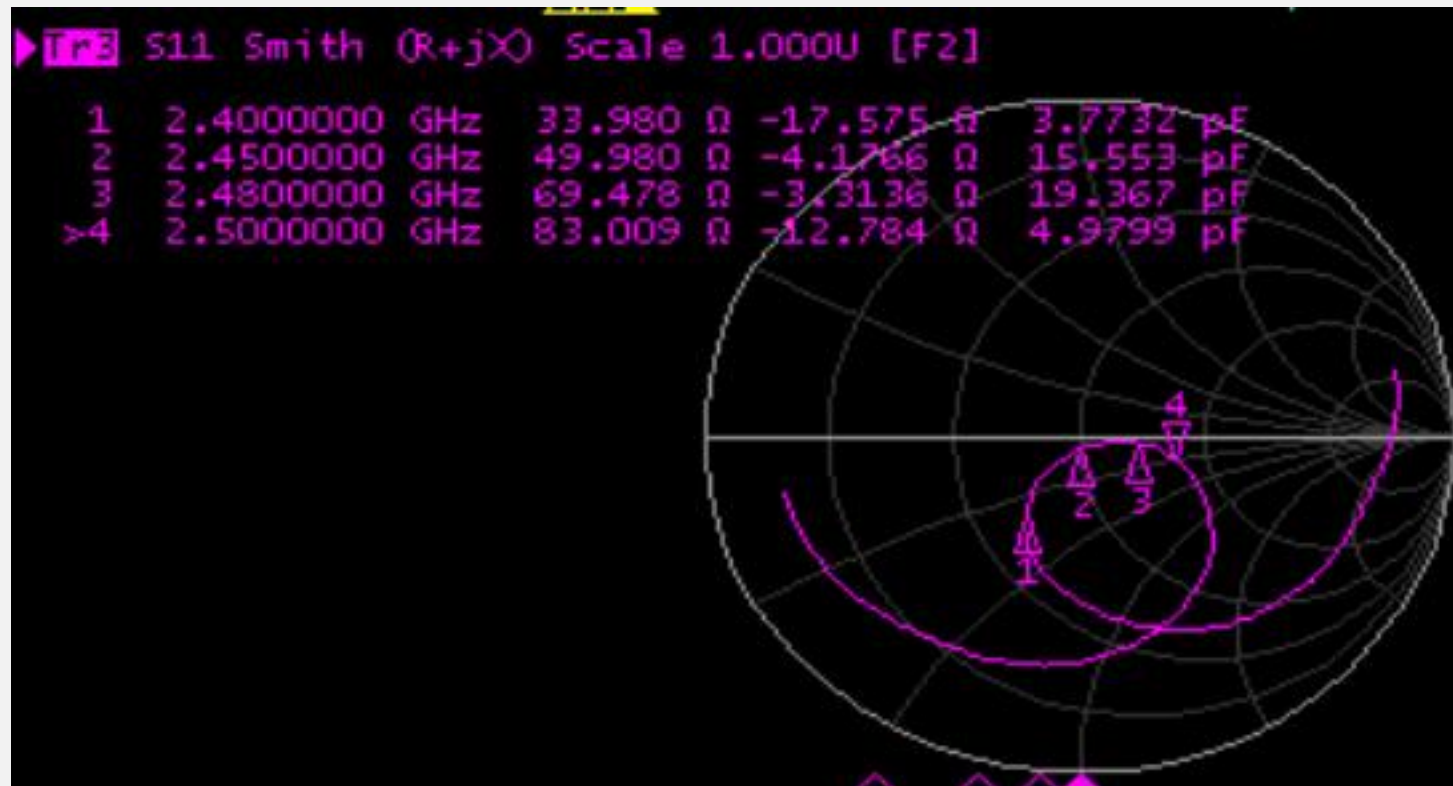
### 3.1 S11 Parameter-Log Mag



|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Frequency (MHz) | 2400   | 2450   | 2480   | 2500   |
| Log Mag         | -11.14 | -27.58 | -15.63 | -11.53 |

## 3.Test Result

### 3.1 S11 Parameter-Smith



|                 |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| Frequency (MHz) | 2400  | 2450  | 2480  | 2500  |
| Smith(Ω)        | 33.98 | 49.98 | 69.47 | 83.00 |

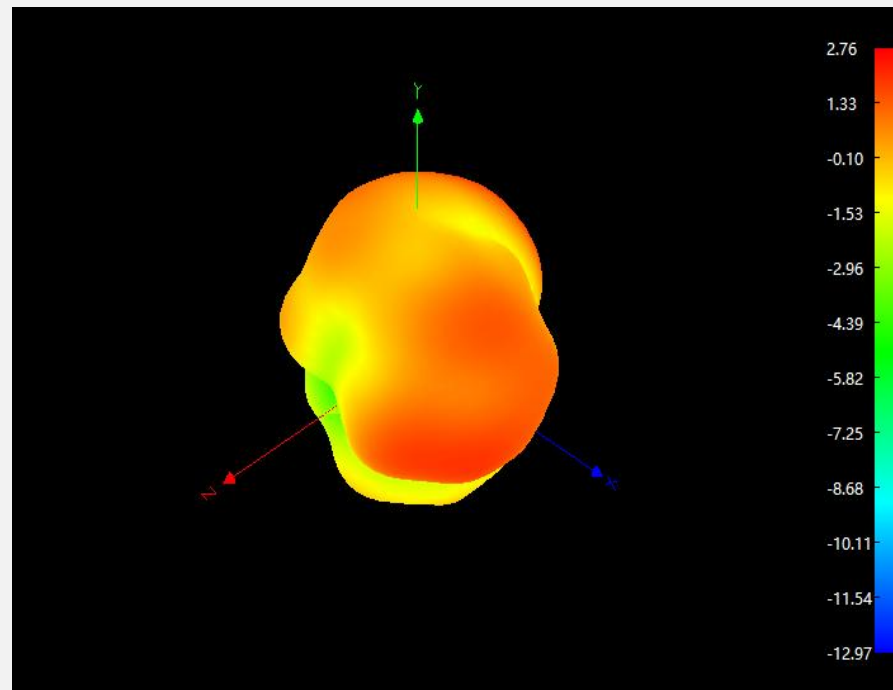
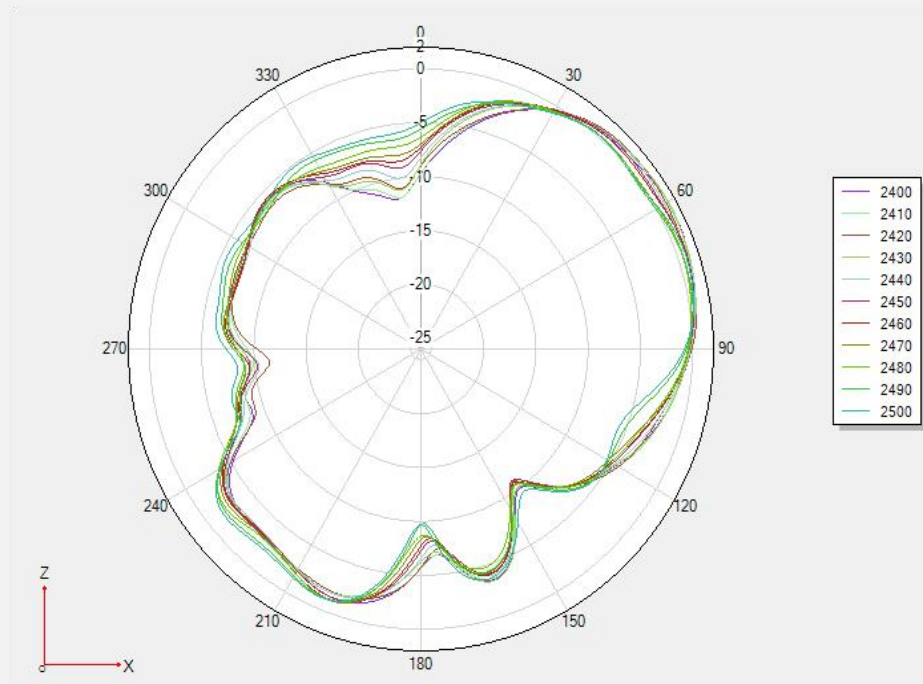
## 3. Test Result

### 3.2 Gain & Efficiency——**ANT**

| Frequency (MHz) | Efficiency (%) | Max GAIN (dBi) |
|-----------------|----------------|----------------|
| 2400            | 39.31          | 2.76           |
| 2410            | 39.20          | 2.84           |
| 2420            | 40.70          | 2.97           |
| 2430            | 41.48          | 3.43           |
| 2440            | 43.33          | 3.40           |
| 2450            | 42.20          | 3.48           |
| 2460            | 43.33          | 3.70           |
| 2470            | 41.97          | 3.58           |
| 2480            | 42.21          | 3.59           |
| 2490            | 44.34          | 3.08           |
| 2500            | 45.10          | 3.02           |

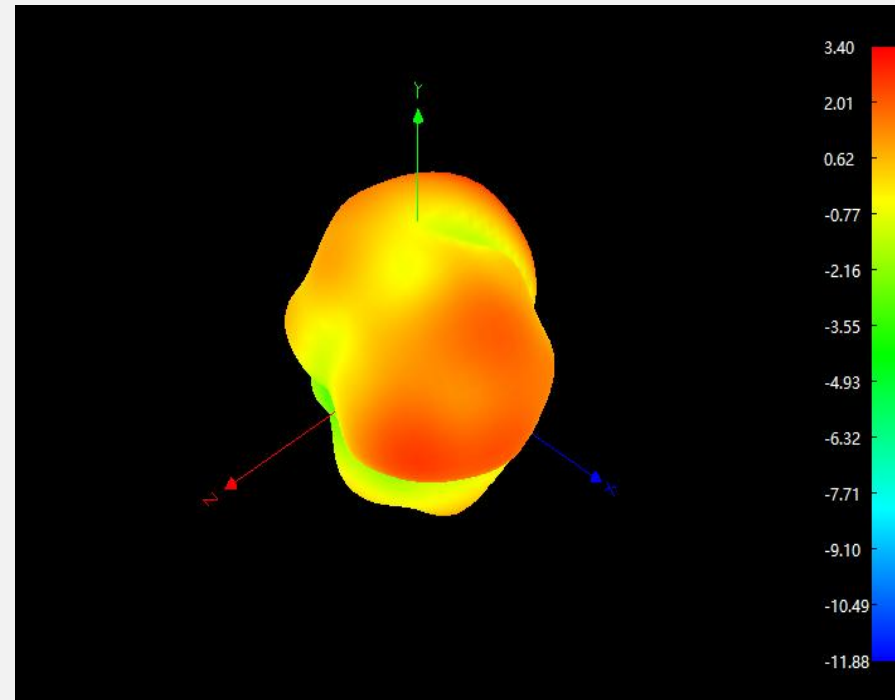
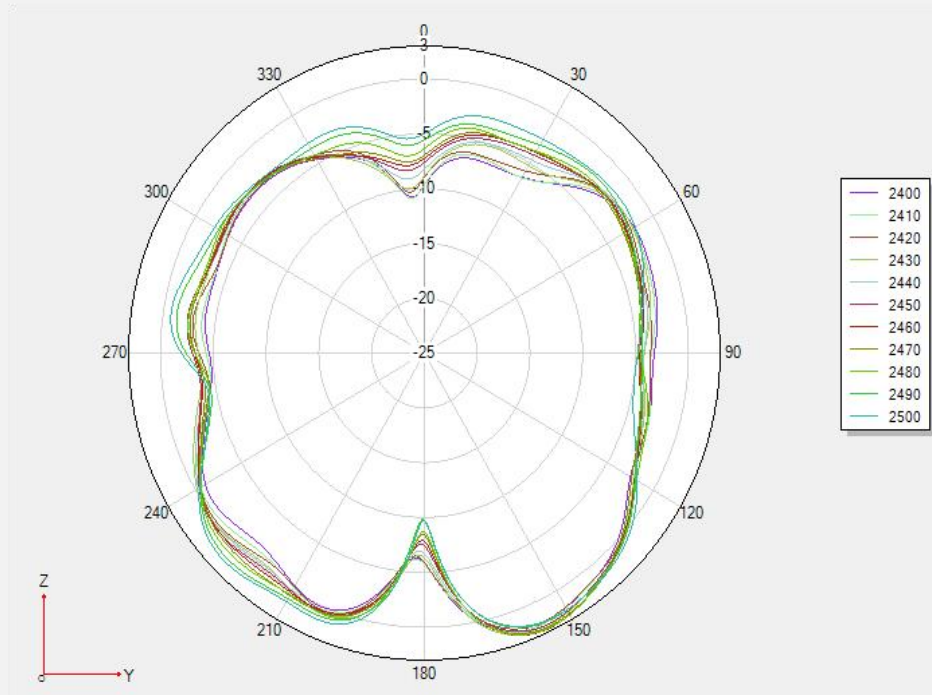
## 3. Test Result

### 3.3 2D Pattern——BT ANT



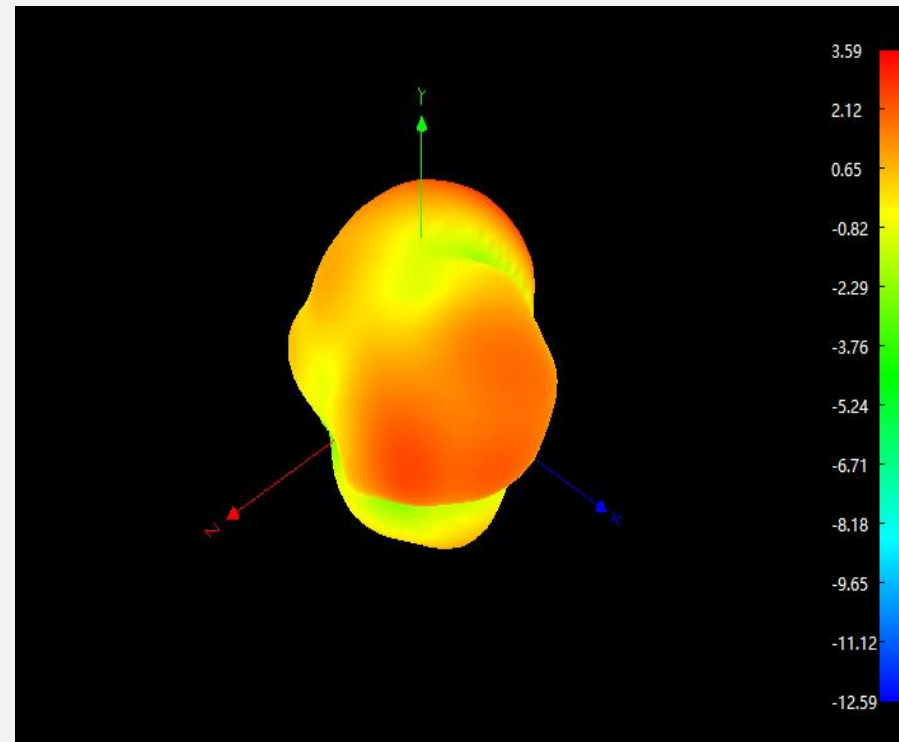
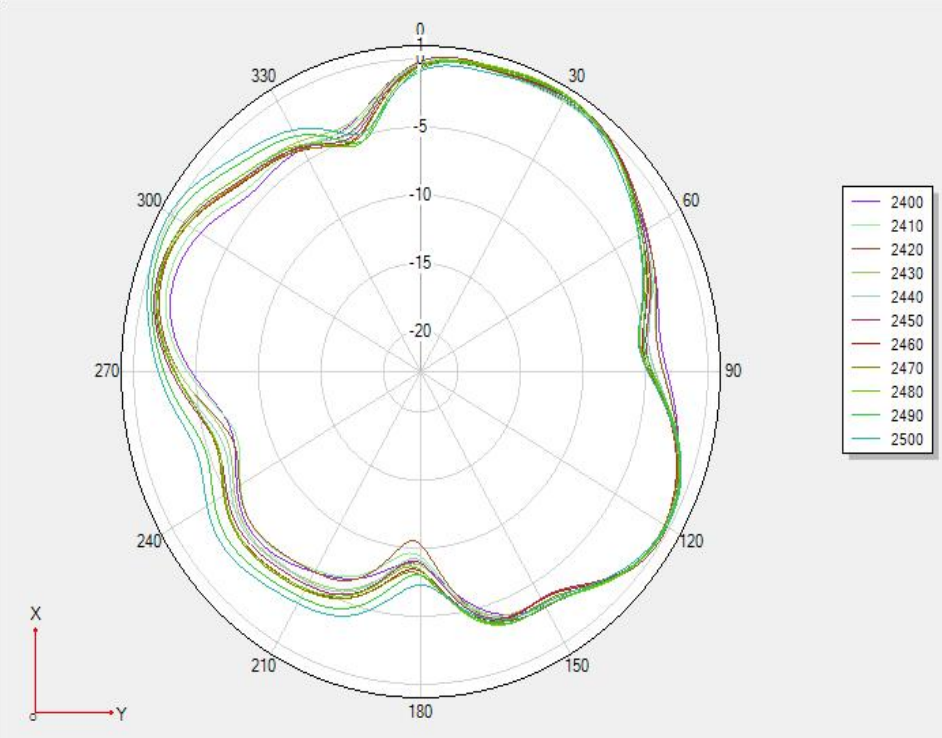
## 3. Test Result

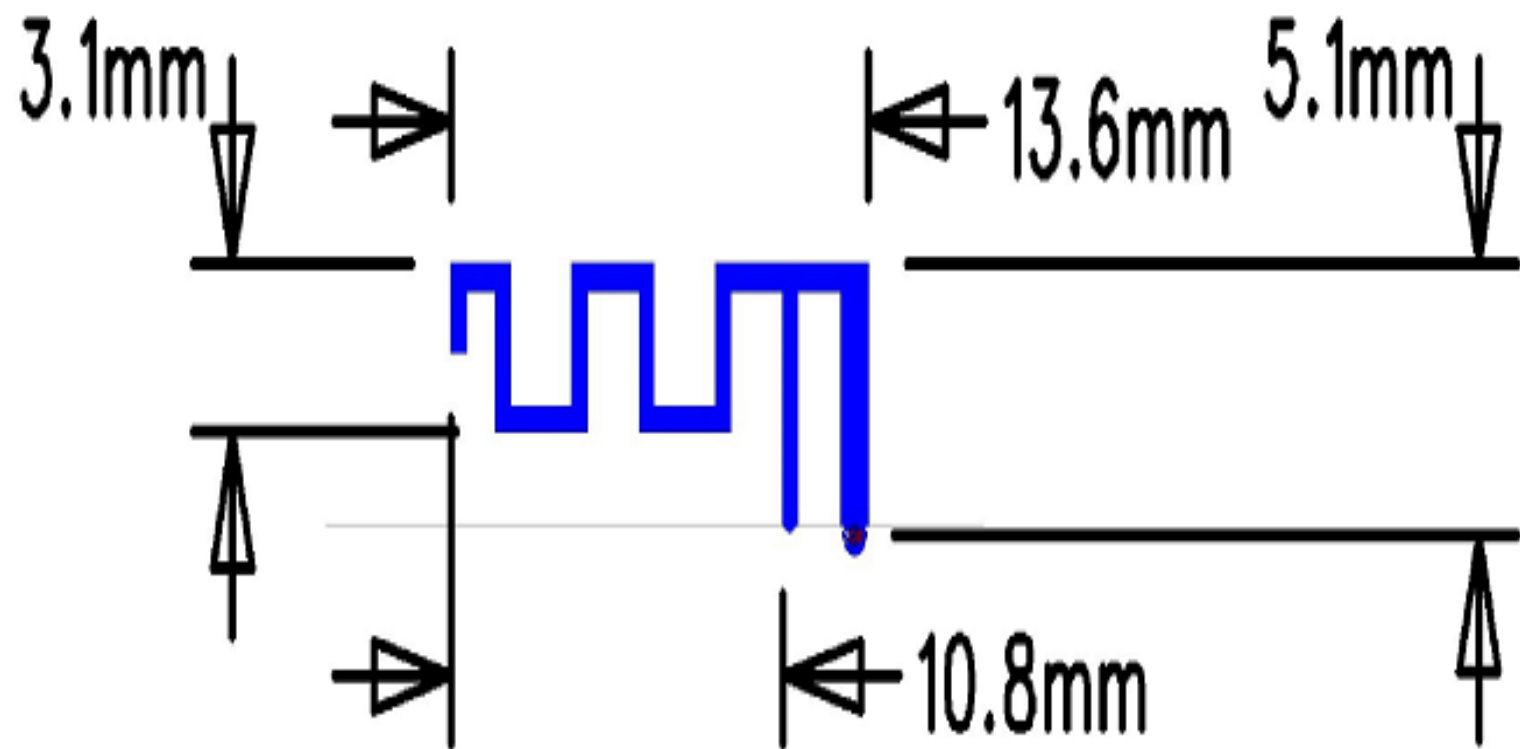
### 3.3 2D Pattern——BT ANT



## 3. Test Result

### 3.3 2D Pattern——BT ANT





*Thank you!*