

# **SPECIFICATION**

## **SKO.W2890.1\_Antenna**

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| Manufacturer    | SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD                                                            |
| Name            | SKO.W2890.1_Antenna                                                                                |
| Specifications  | 2.4/5G WIFI Antenna                                                                                |
| Model           | External Antenna                                                                                   |
| Company address | Floor 10, Building C6, Hengfeng Industrial City, Hezhou, Xixiang, Bao'an District, Shenzhen, China |
| Telephone       | 0755-27474071                                                                                      |
|                 |                                                                                                    |

## 1. Index

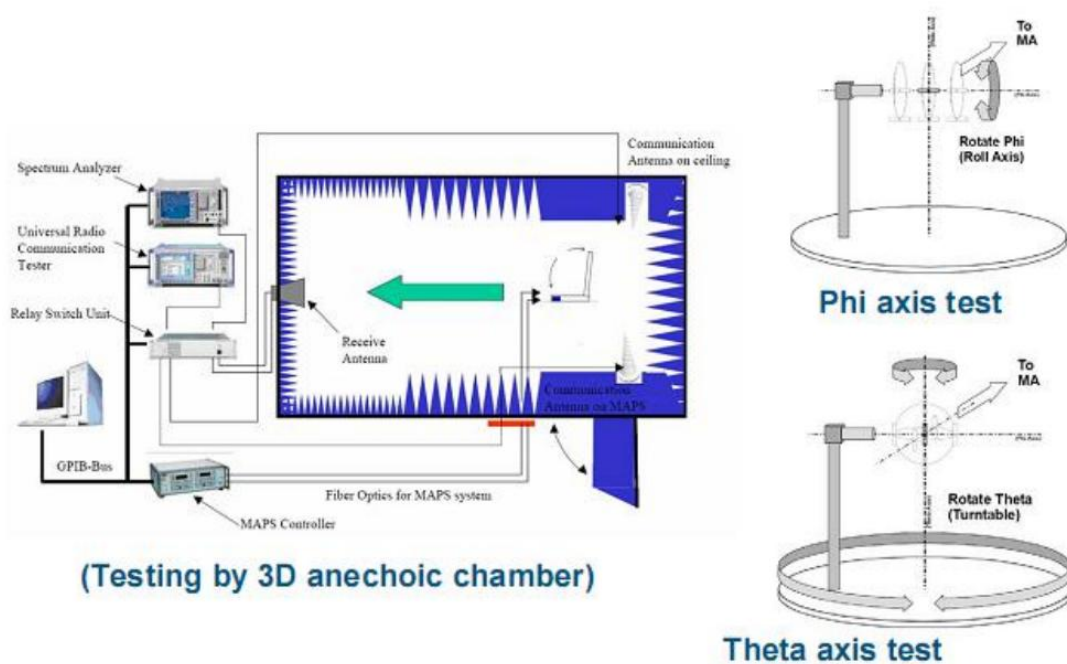
| Serial number | Content                                  | Page number |
|---------------|------------------------------------------|-------------|
| -             | Specification                            | 1           |
| -             | Record of version changes                | 1           |
| 1             | List of items                            | 2           |
| 2             | Test equipment and conditions            | 3           |
| 3             | Structure specification of the prototype | 4           |
| 4             | Gain/Efficiency/3D                       | 6           |
|               |                                          |             |
|               |                                          |             |
|               |                                          |             |
|               |                                          |             |

## 2. Test Equipment & Conditions

**2.1. Network Analyzers :** Agilent 8753D / 5071B

**2.2. Communications Test Set:** R&S CMW 500

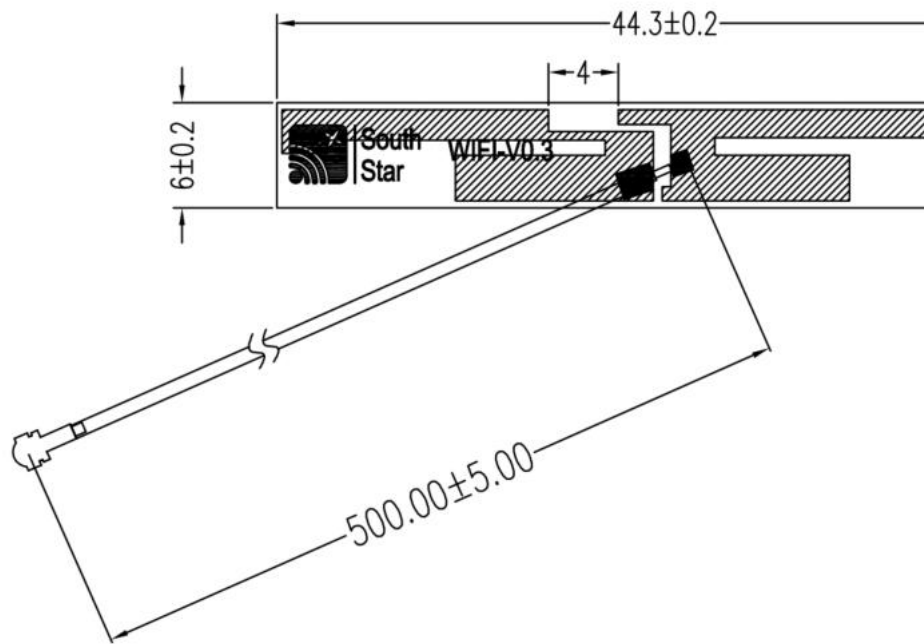
**2.3. 3D Chamber Test System:** Feitu Test System



## 3. Mechanical instruction

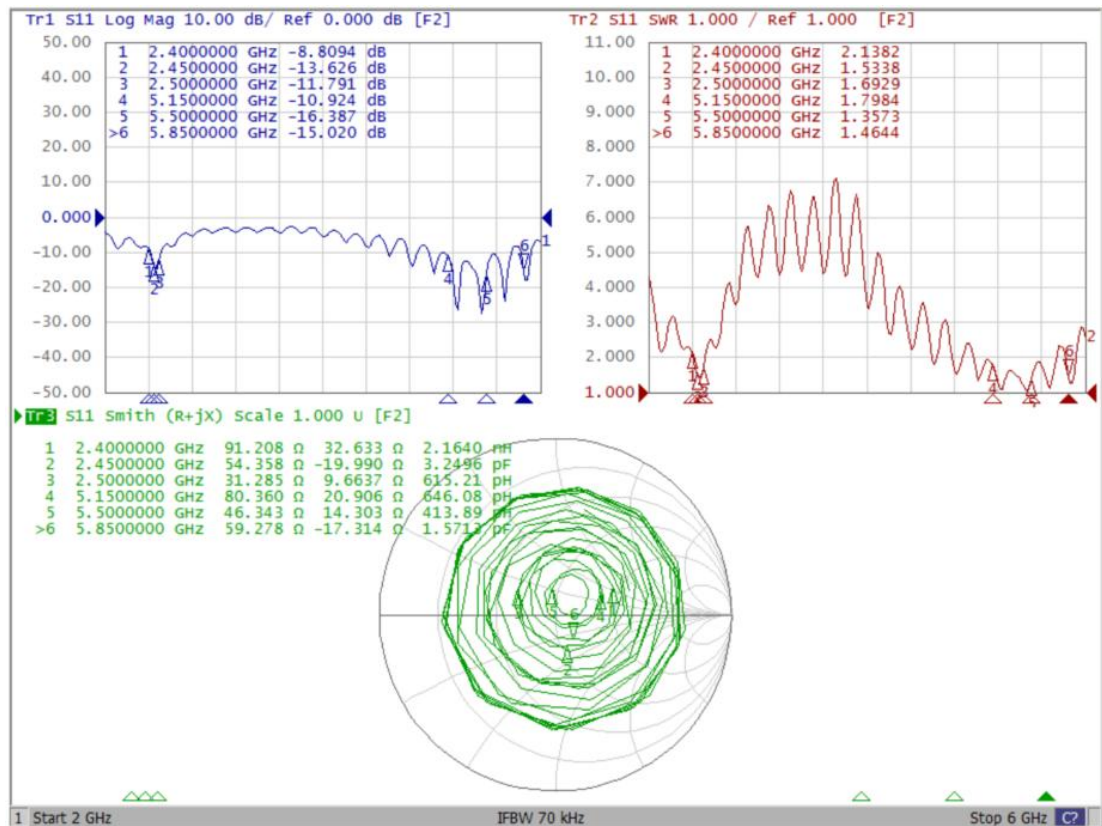


Picture of the antenna



Antenna size diagram

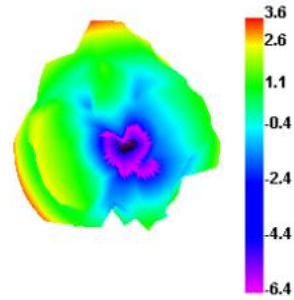
### 3.1. Antenna Impedance: S11



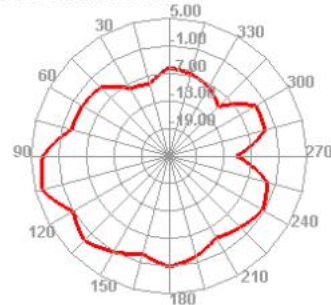
#### 4. Gain/Efficiency/3D-Model:

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 58.79       | 3.99          |
| 2410          | 55.27       | 3.43          |
| 2420          | 55.97       | 3.24          |
| 2430          | 59.45       | 3.31          |
| 2440          | 59.96       | 3.29          |
| 2450          | 59.75       | 3.58          |
| 2460          | 58.07       | 3.72          |
| 2470          | 64.02       | 4.64          |
| 2480          | 63.83       | 4.94          |
| 2490          | 55.46       | 4.38          |
| 2500          | 53.07       | 4.55          |

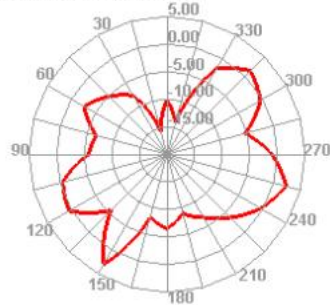
**2450.000MHz**



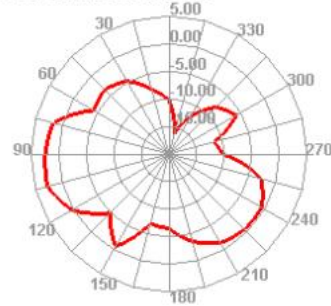
**2450.000MHz H**



**2450.000MHz E1**

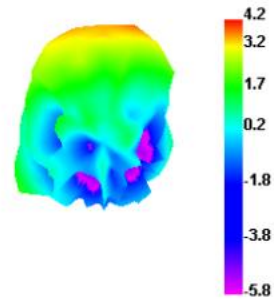


**2450.000MHz E2**

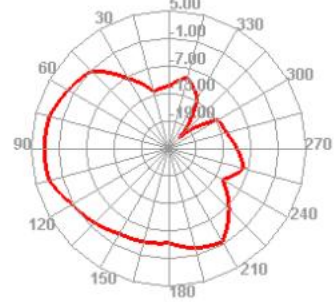


| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 5150          | 40.19       | 2.2           |
| 5200          | 51.52       | 2.53          |
| 5250          | 45.53       | 2.52          |
| 5300          | 44.47       | 2.74          |
| 5350          | 44          | 2.75          |
| 5400          | 42.29       | 3.04          |
| 5450          | 46.77       | 4.08          |
| 5500          | 45.91       | 4.17          |
| 5550          | 46.26       | 4.41          |
| 5600          | 46.25       | 4.74          |
| 5650          | 47.53       | 4.88          |
| 5700          | 45.57       | 4.83          |
| 5750          | 43.95       | 4.53          |
| 5800          | 33.55       | 3.44          |
| 5850          | 37.81       | 3.99          |

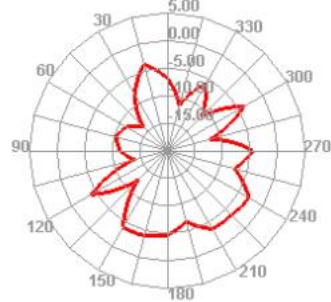
**5500.000MHz**



**5500.000MHz H**



**5500.000MHz E1**



**5500.000MHz E2**

