

# Antenna Describe

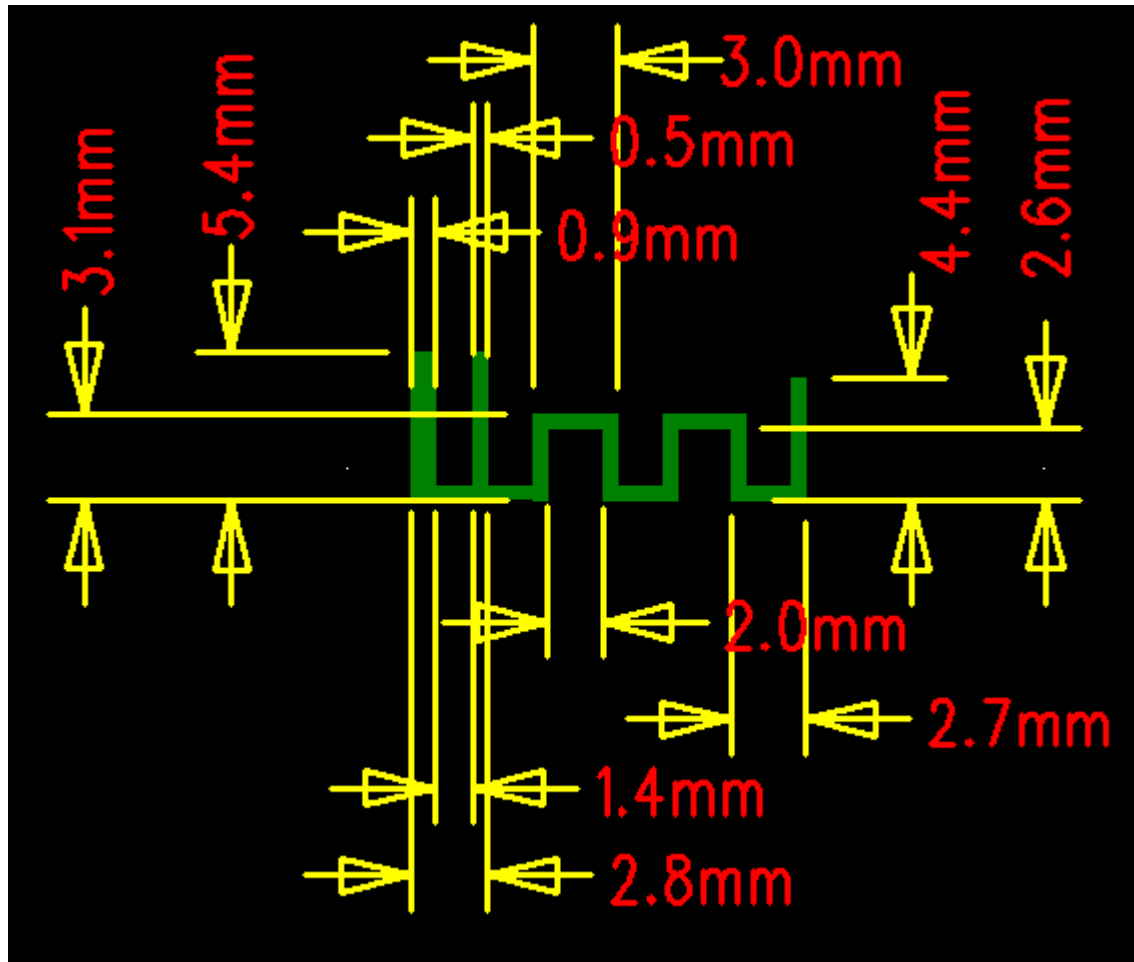
## 1: Antenna Describe

|                                              |                                                            |
|----------------------------------------------|------------------------------------------------------------|
| <b>Antenna</b>                               | <b>PCB</b>                                                 |
| <b>Antenna Gain</b>                          | <b>4.51dBi</b>                                             |
| <b>Frequency Range</b>                       | <b>2.4Ghz-2.483Ghz</b>                                     |
| <b>Connector Type</b>                        | <b>Direct</b>                                              |
| <b>Location of measurement(company name)</b> | <b>SHENZHEN SHIXINZHONGXI<br/>N<br/>TECHNOLOGY.CO.,LTD</b> |

Address: Room 102, Building 5, Shengyada Company, No. 443, Guangming Street, Dongzhou Community, Guangming Subdistrict, Guangming District, Shenzhen City

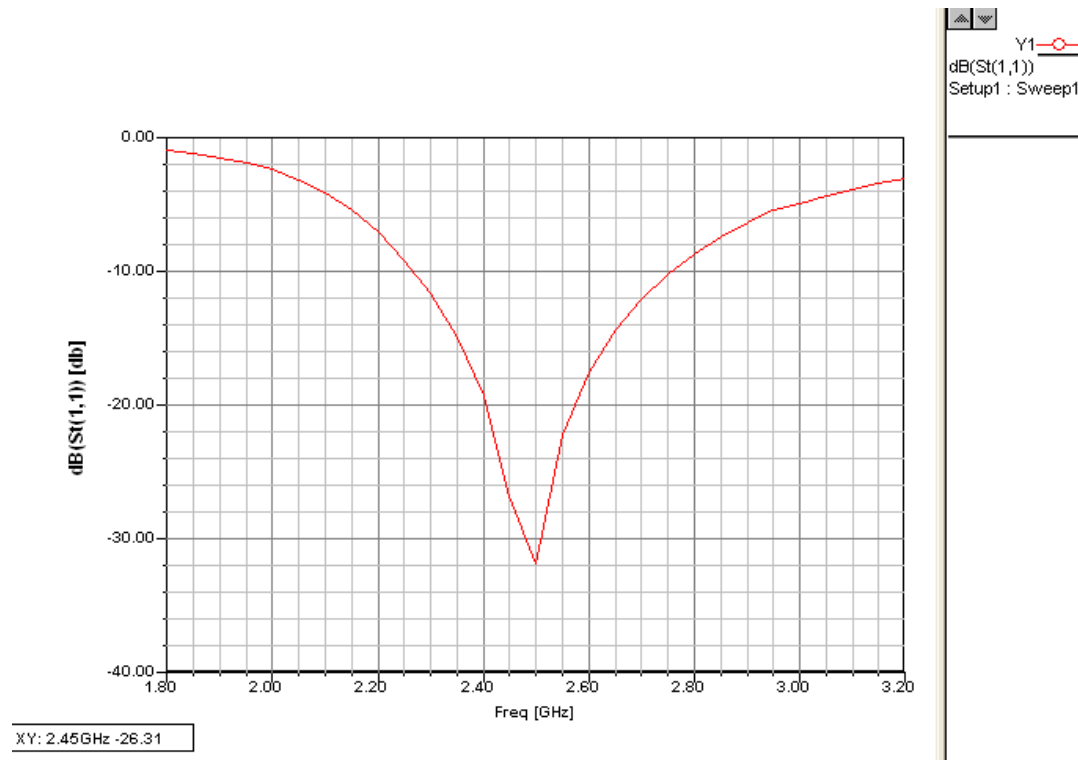
## 2: External View Drawing

**Picture of antenna**

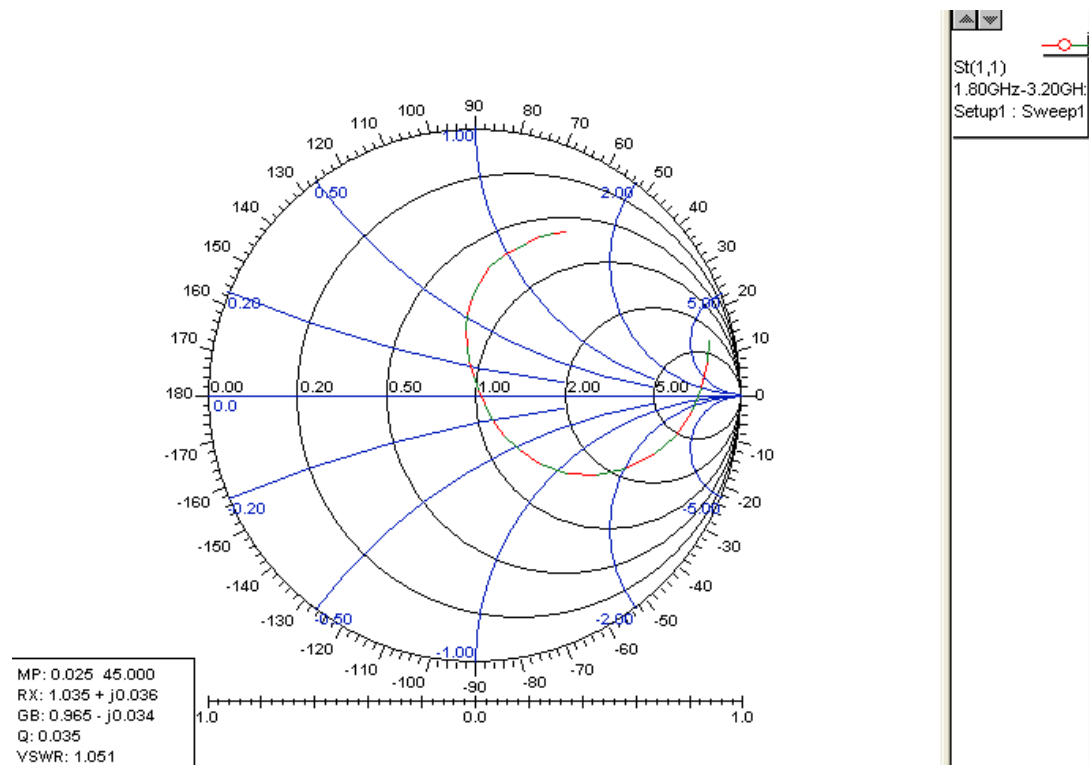


### 3: Measurement Result

#### 3.1 Return Loss ( $S_{11}$ )



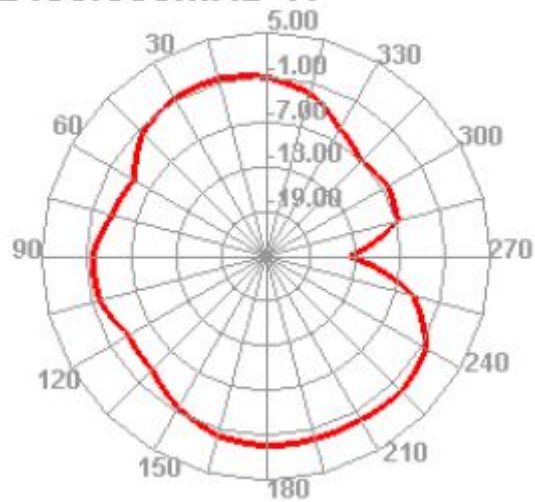
## 3.2 Smith Chart



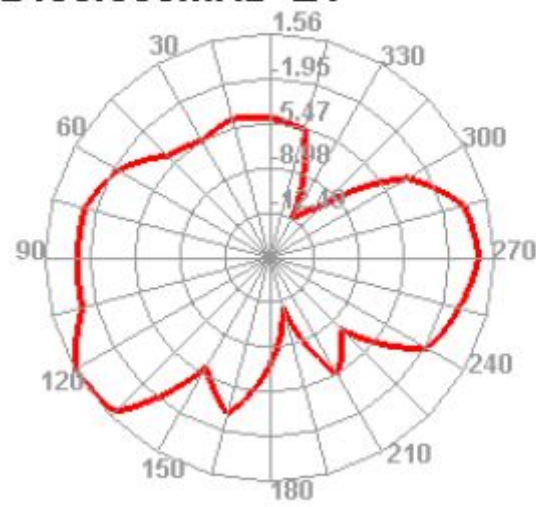
## 3.3 Gain

| Frequency | Gain(dBi) |
|-----------|-----------|
| 2400MHz   | 4.09094   |
| 2410MHz   | 4.2202    |
| 2420MHz   | 4.39175   |
| 2430MHz   | 4.31876   |
| 2440MHz   | 4.17793   |
| 2450MHz   | 4.17943   |
| 2460MHz   | 4.25398   |
| 2470MHz   | 4.42179   |
| 2480MHz   | 4.5121    |
| 2490MHz   | 4.5111    |
| 2500MHz   | 4.26374   |

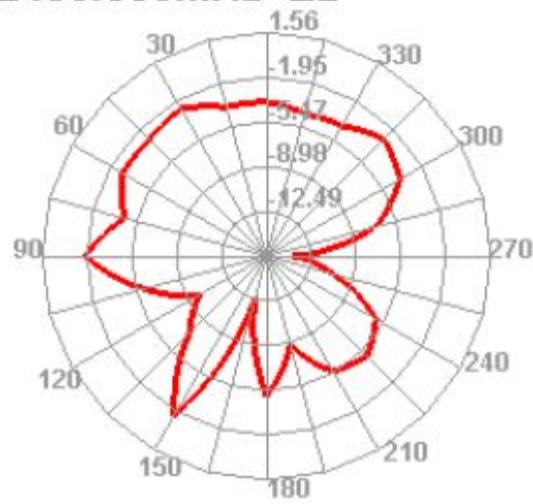
**2400.000MHz H**



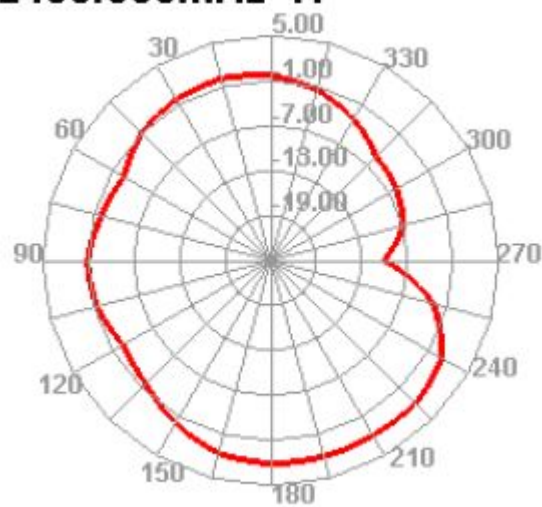
**2400.000MHz E1**



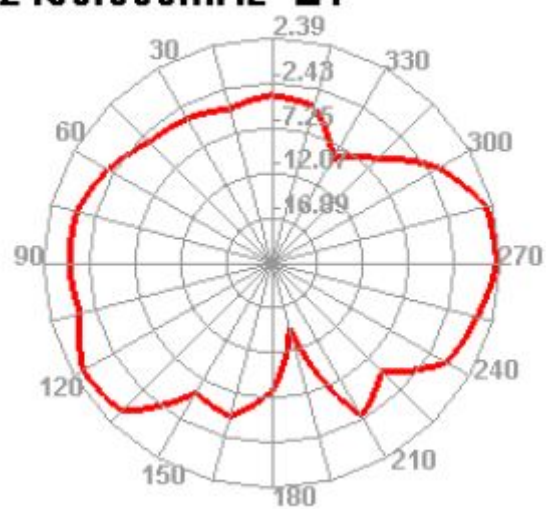
**2400.000MHz E2**



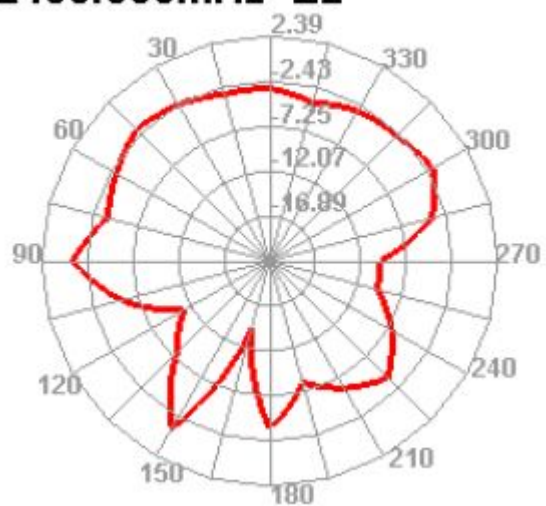
**2450.000MHz H**



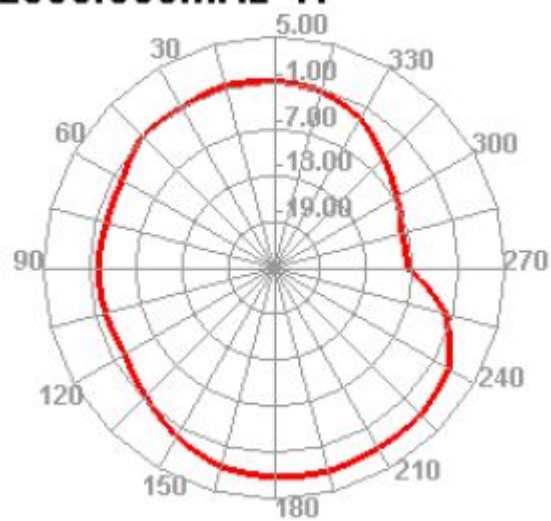
2450.000MHz E1



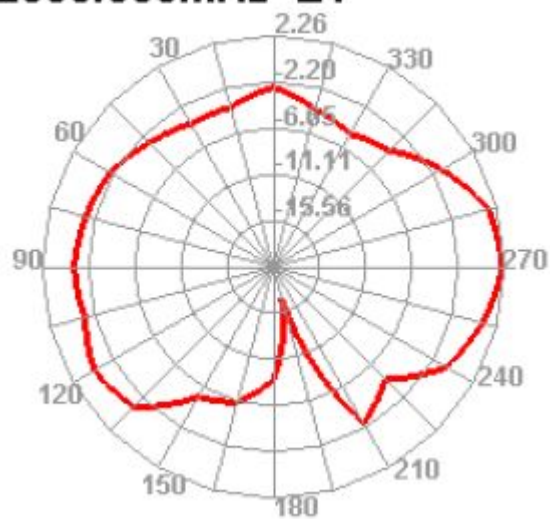
2450.000MHz E2



**2500.000MHz H**



**2500.000MHz E1**



**2500.000MHz E2**

