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# Antenna Test Report

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**Equipment: open close sensor**

**Model Name:**

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## 1、Antenna Spec

### 1.1 Antenna

| Parameter         | Value           |
|-------------------|-----------------|
| Frequency Range   | 2.4 ~ 2.5 GHz   |
| Antenna Peak Gain | 4.12 dBi        |
| Antenna Type      | PCB IFA Antenna |

## 2、Test Result

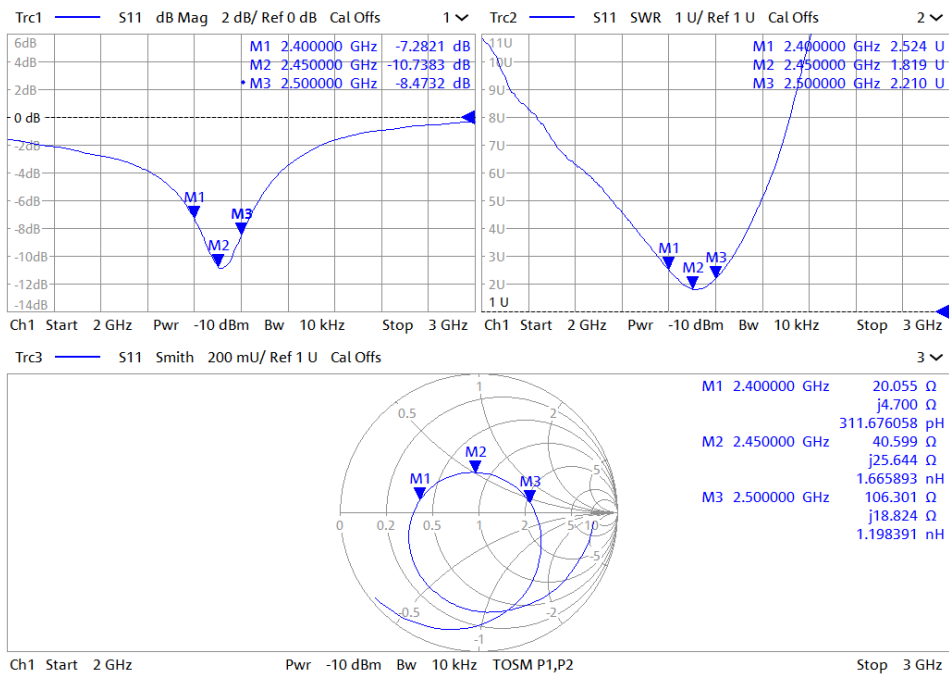
### 2.1 Antenna Passive Test

#### 2.1.1 Gain

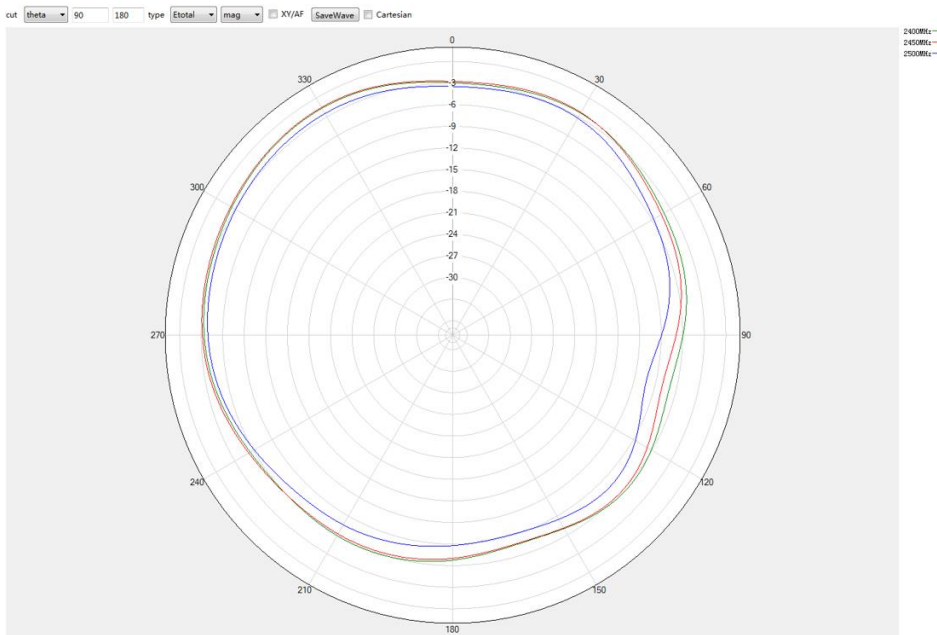
| Frequency (MHz) | Gain (dBi) | Efficiency (dB) |
|-----------------|------------|-----------------|
| 2400            | 2.01       | -5.74           |
| 2410            | 2.97       | -4.90           |
| 2420            | 3.32       | -4.49           |
| 2430            | 2.97       | -4.74           |
| 2440            | 3.38       | -4.22           |
| 2450            | 4.03       | -3.77           |
| 2460            | 3.78       | -4.07           |
| 2470            | 3.53       | -4.26           |
| 2480            | 4.04       | -3.87           |
| 2490            | 4.12       | -3.86           |
| 2500            | 4.01       | -4.06           |
| MIN             | 2.01       | -5.74           |
| MAX             | 4.12       | -3.77           |
| AVG             | 3.47       | -4.36           |

#### 2.1.2 Smith Chart/S11/VSWR

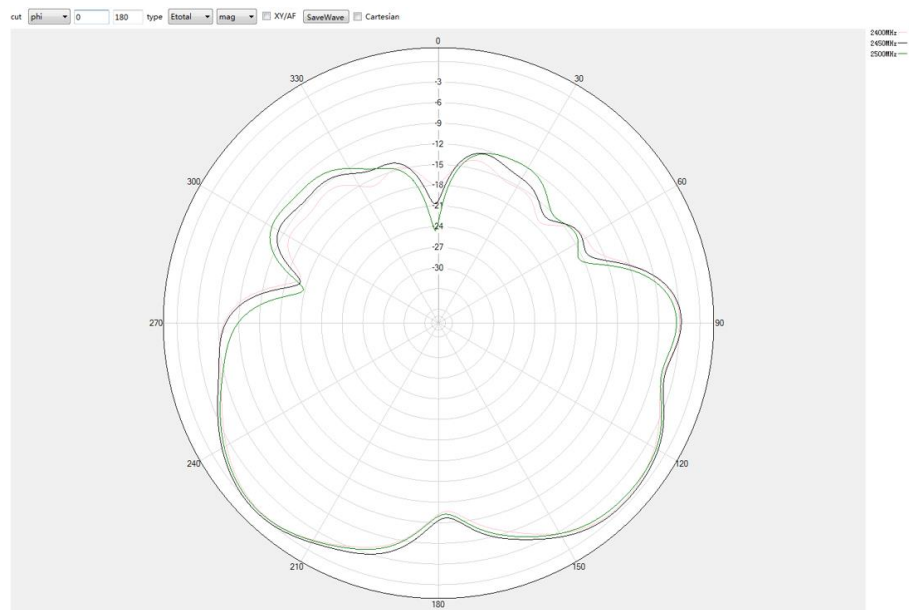
9/5/2022 11:14:35 AM  
1328.5170K92-100216-xVW



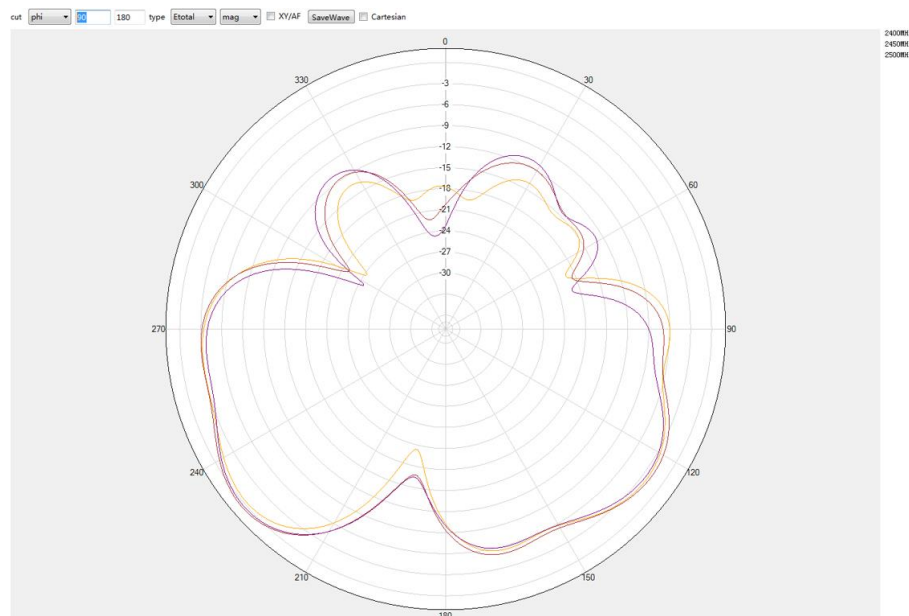
## 2.1.3 2D Radiation Pattern



$\theta = 90^\circ$



$\phi = 0^\circ$



$\phi = 90^\circ$

## 2.1.4 3D Radiation Pattern

