

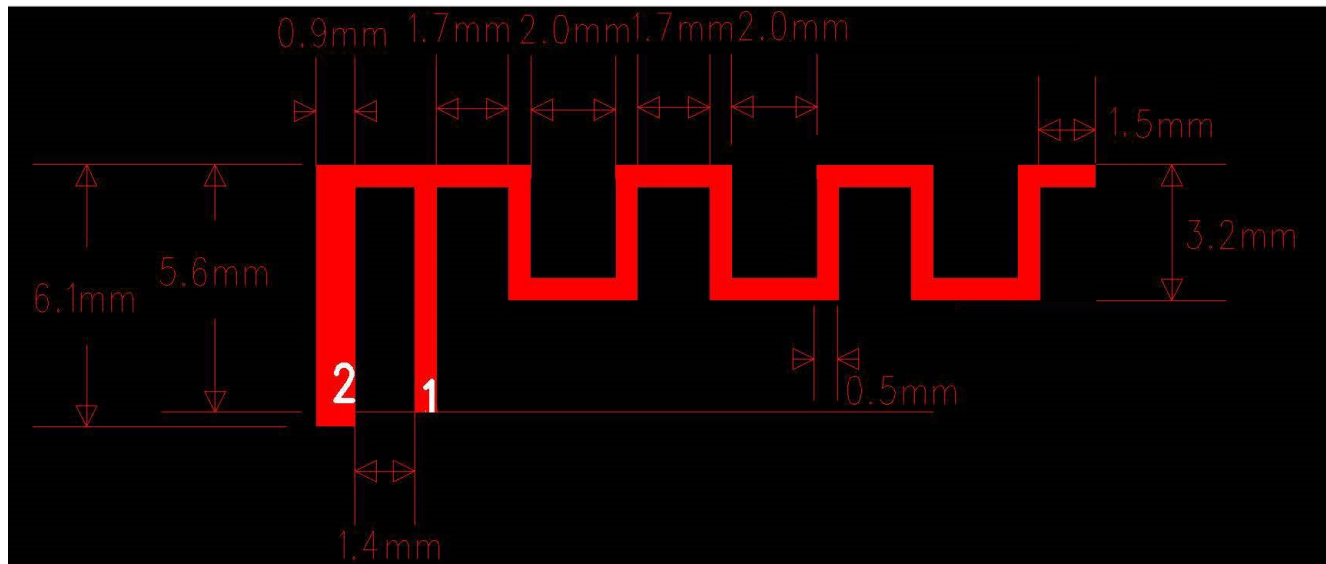
## Antenna specification

| SPECIFICATIONS         |   |
|------------------------|---|
| Frequency (MHz)        | 2400-2480   |
| Peak Gain (dBi)        | -2.1dBi   |
| Average Gain (dBi)     | >-4   |
| VSWR                   | <3.2  |
| Impedance ( $\Omega$ ) | 50 $\Omega$   |
| Antenna Type           | Plannar Inverted F Antenna on board   |
| Polarization           | Linear  |
| Manufacturer           | Hu Bei Zuan Ma Intelligent Control Technology Co.LTD<br>Northside of Xingye Avenue, Zeilin Town, Echeng District, Ezhou<br>City, Hubei Province |

Testing environment: Zhongke Guoji darkroom testing system

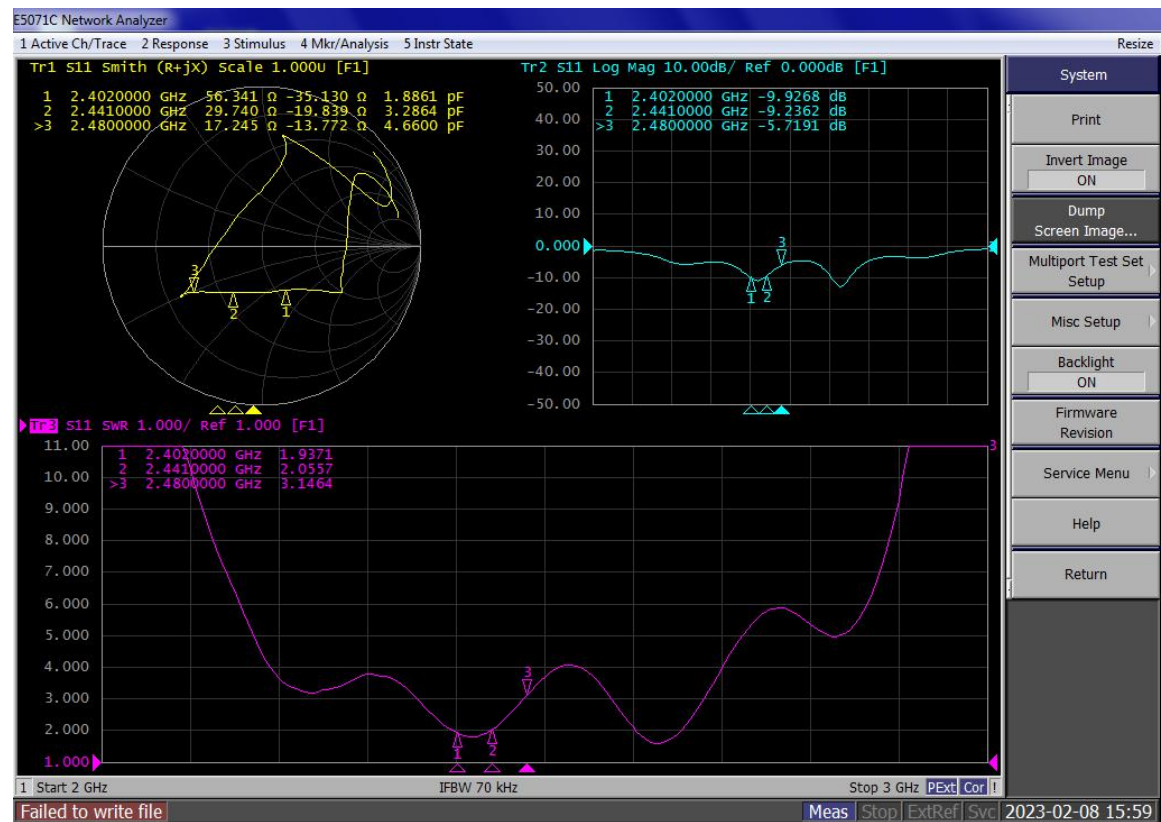


## Antenna physical and physical dimensions



Passive S parameters of antenna:

VSWR, Return Loss, and Smith Chart

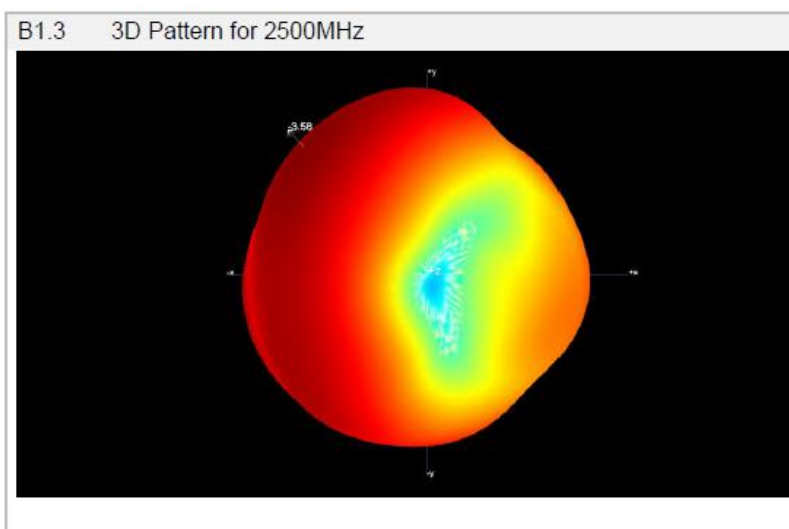
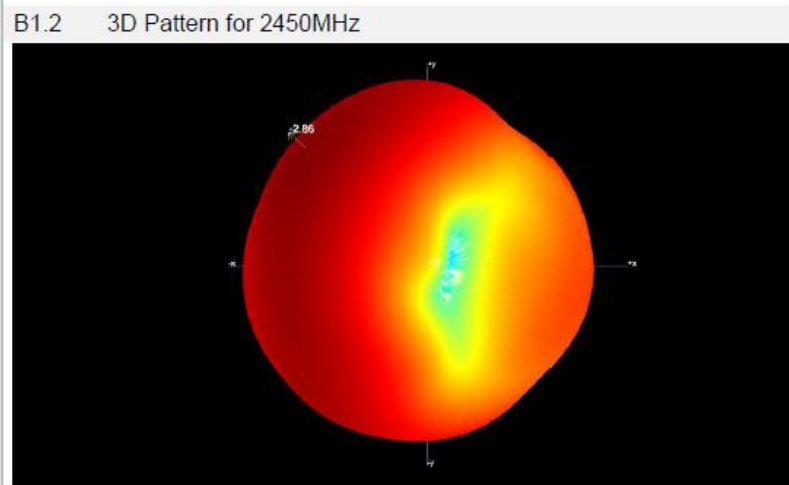
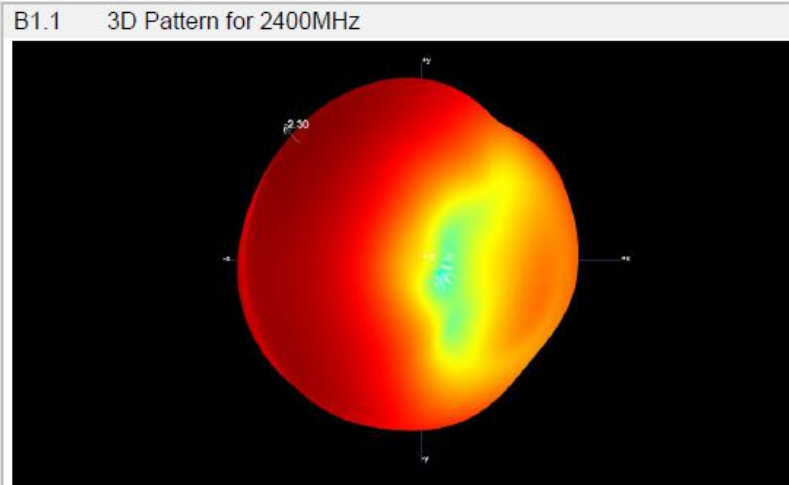


Antenna efficiency and gain

| Frequency | Gain (dBi) | Efficiency (%) |
|-----------|------------|----------------|
| 2400MHz   | -2.10      | 20             |
| 2410MHz   | -2.40      | 20             |
| 2420MHz   | -2.49      | 21             |
| 2430MHz   | -2.57      | 20             |
| 2440MHz   | -2.69      | 19             |
| 2450MHz   | -2.86      | 19             |
| 2460MHz   | -3.06      | 19             |
| 2470MHz   | -3.23      | 19             |
| 2480MHz   | -3.29      | 18             |
| 2490MHz   | -3.22      | 18             |
| 2500MHz   | -3.58      | 18             |

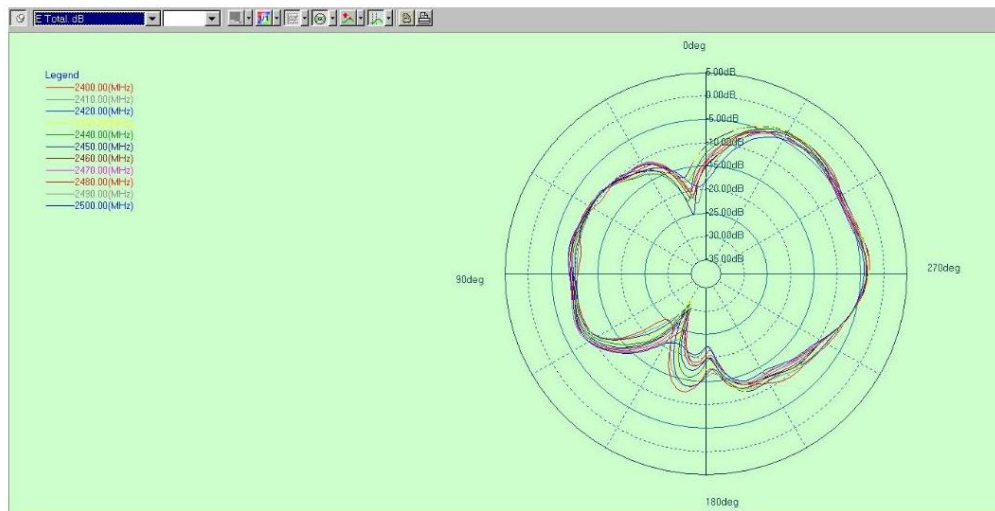
**Radiation Pattern**    Unit: dBi

**3D Pattern**

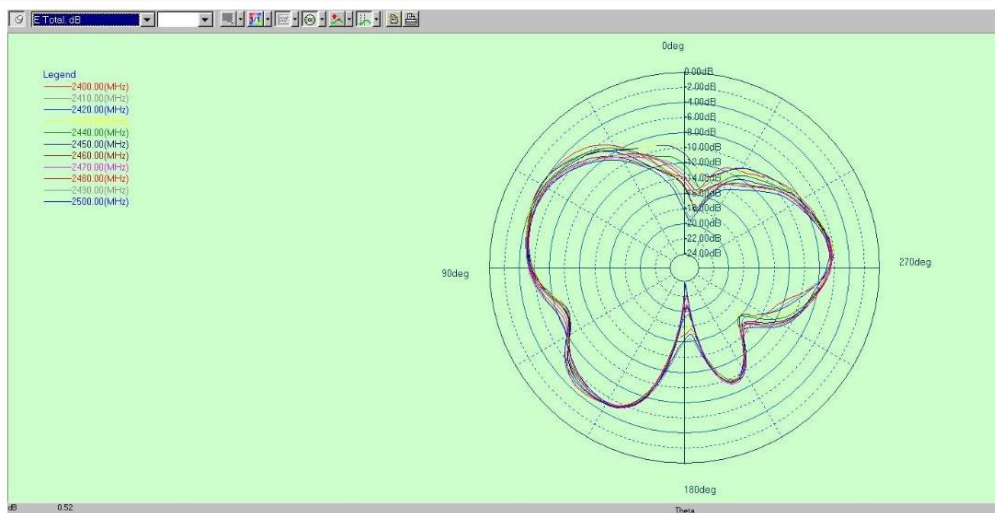


Unit: dBi

### B2.1 PHI=0



### B2.2 PHI=90



### B2.3 THETA=90

