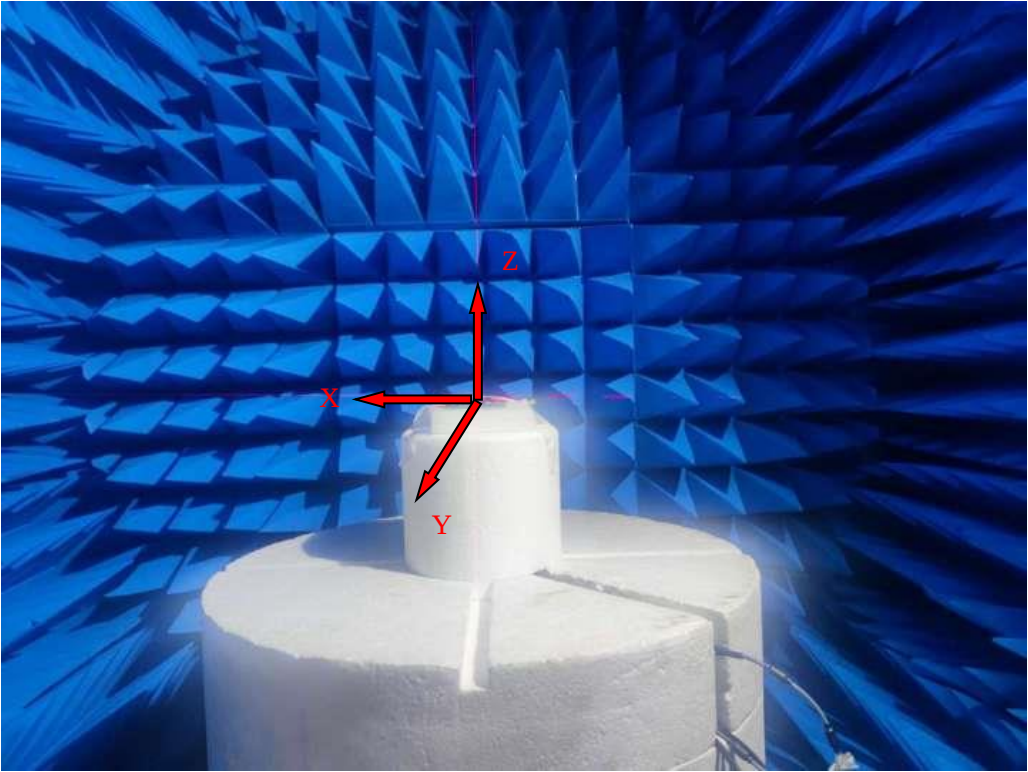


2.4G-2.48G 频段板载 PIFA 天线测试报告

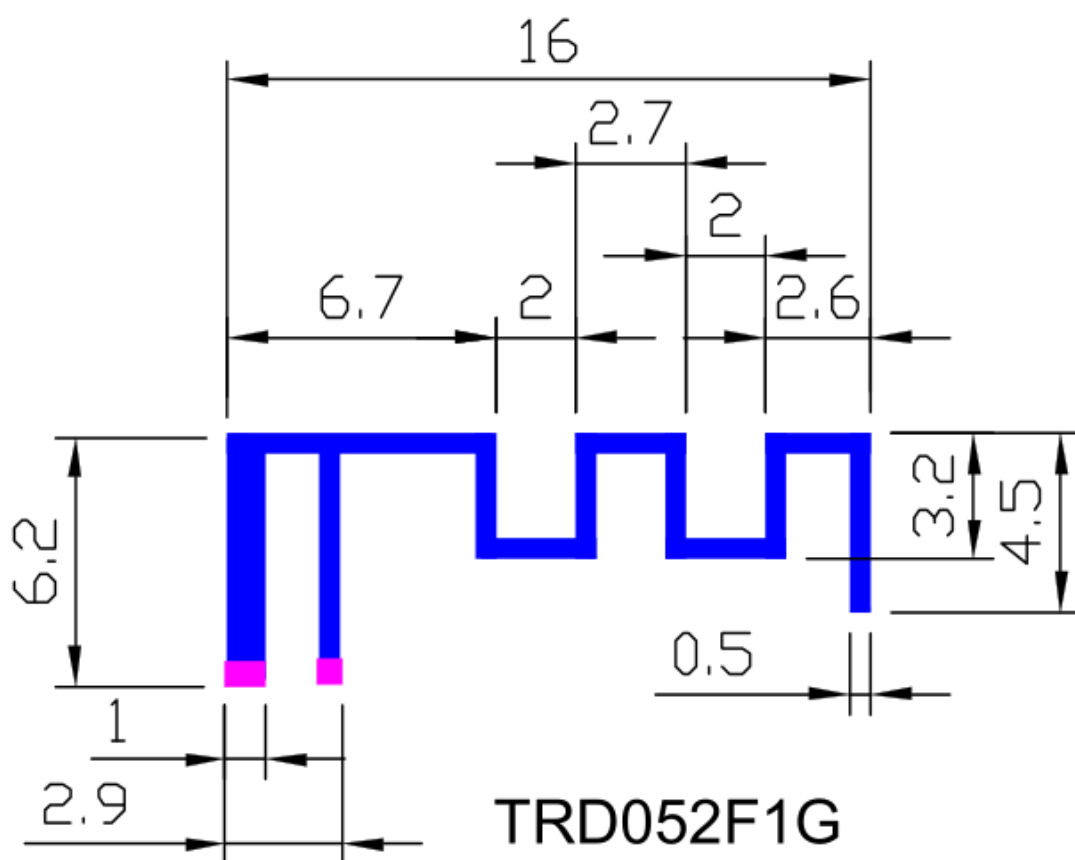
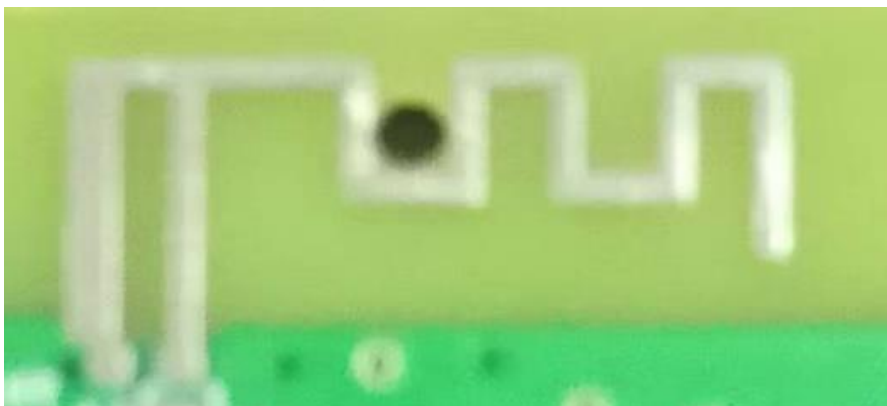
Test report of onboard PIFA antenna in 2.4G-2.48G band

| SPECIFICATIONS         |                                     |
|------------------------|-------------------------------------|
| Frequency (MHz)        | 2400-2480                           |
| Peak Gain (dBi)        | 2.499                               |
| Average Gain (dBi)     | >-4                                 |
| VSWR                   | <3.2                                |
| Impedance ( $\Omega$ ) | 50 $\Omega$                         |
| Antenna Type           | Plannar Inverted F Antenna on board |
| Polarization           | Linear                              |

测试环境：中科国技暗室测试系统



天线实物及物理尺寸

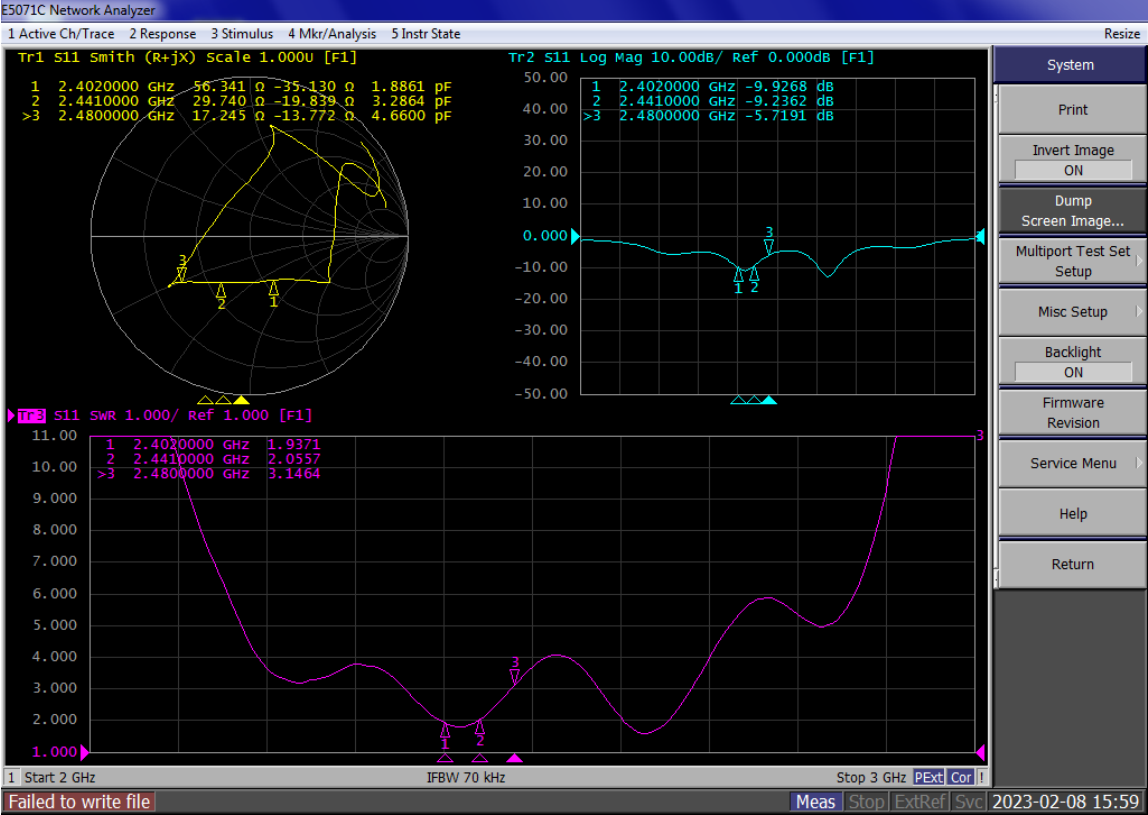


TRD052F1G

241128

Line Width-0.5MM

天线无源 S 参数：  
驻波比（VSWR）、回波损耗（Return Loss）及史密斯圆图

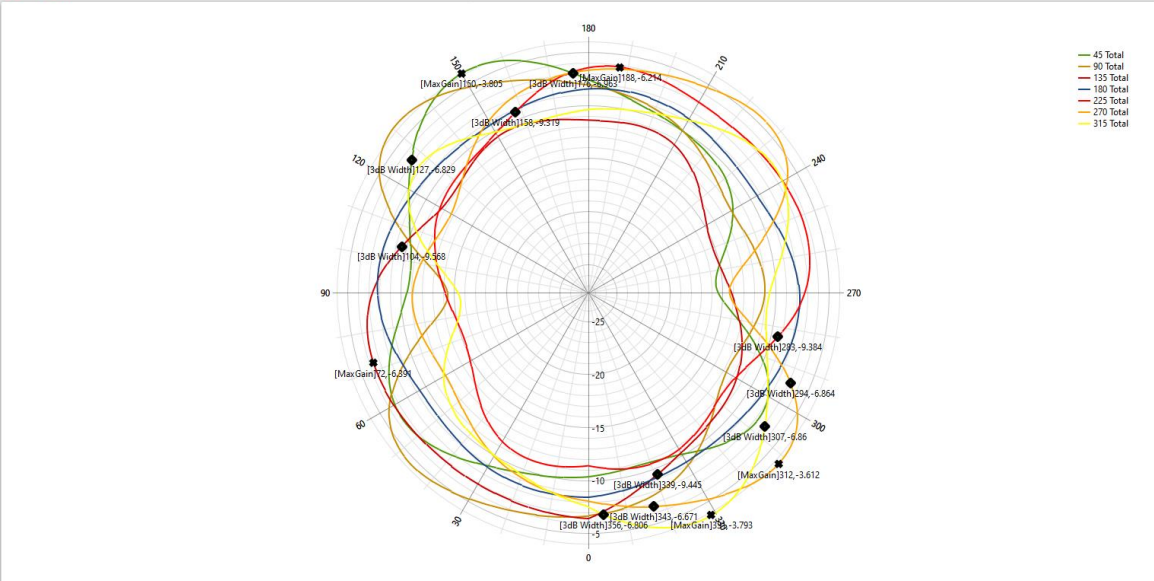


天线效率及增益

| Frequency (MHz) | Gain (dBi) | Effcieny (%) | AverageGain (dBi) | Efficiency (dB) |
|-----------------|------------|--------------|-------------------|-----------------|
| 2400            | 1.433      | 59.329%      | -2.717            | -2.267          |
| 2410            | 0.927      | 51.861%      | -3.416            | -2.852          |
| 2420            | 0.829      | 52.112%      | -3.166            | -2.831          |
| 2430            | 0.881      | 49.299%      | -3.258            | -3.072          |
| 2440            | 1.192      | 50.672%      | -3.144            | -2.952          |
| 2450            | 1.688      | 53.067%      | -2.735            | -2.752          |
| 2460            | 2.194      | 59.423%      | -2.276            | -2.260          |
| 2470            | 2.118      | 56.680%      | -2.438            | -2.466          |
| 2480            | 2.499      | 61.727%      | -2.112            | -2.095          |
| Average         | 1.529      | 54.908%      | -2.806            | -2.616          |
| Peak            | 2.499      | 61.727%      | -2.112            | -2.095          |

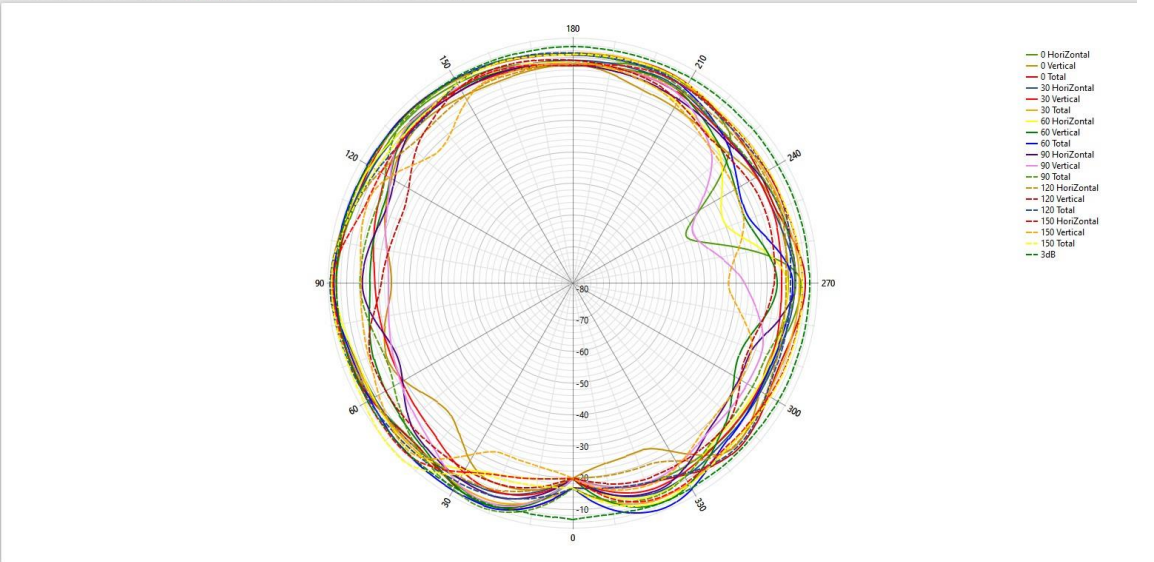
# 天线 2440MHz 2D-Theta Pattern

2D-Theta 2DLine-Theta 2D-Phi 2DLine-Phi DataLine HeatMap 3D

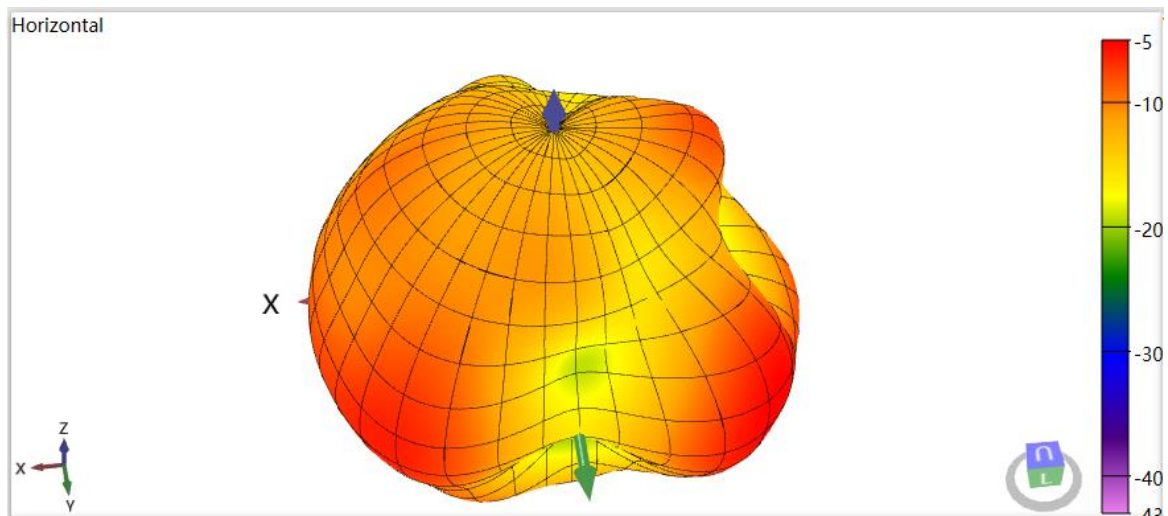


# 天线 2440MHz 2D-Phi Pattern

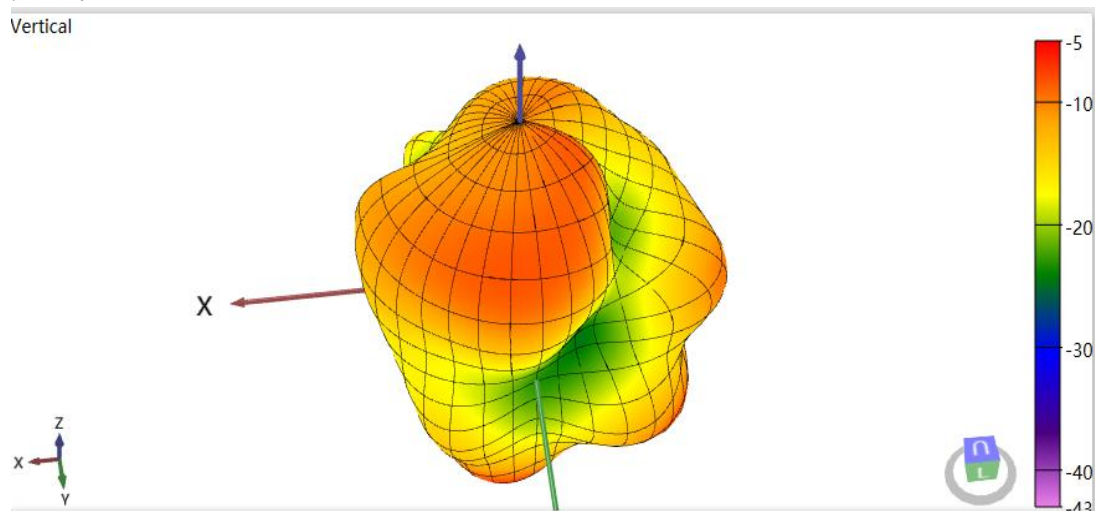
2D-Theta 2DLine-Theta 2D-Phi 2DLine-Phi DataLine HeatMap 3D



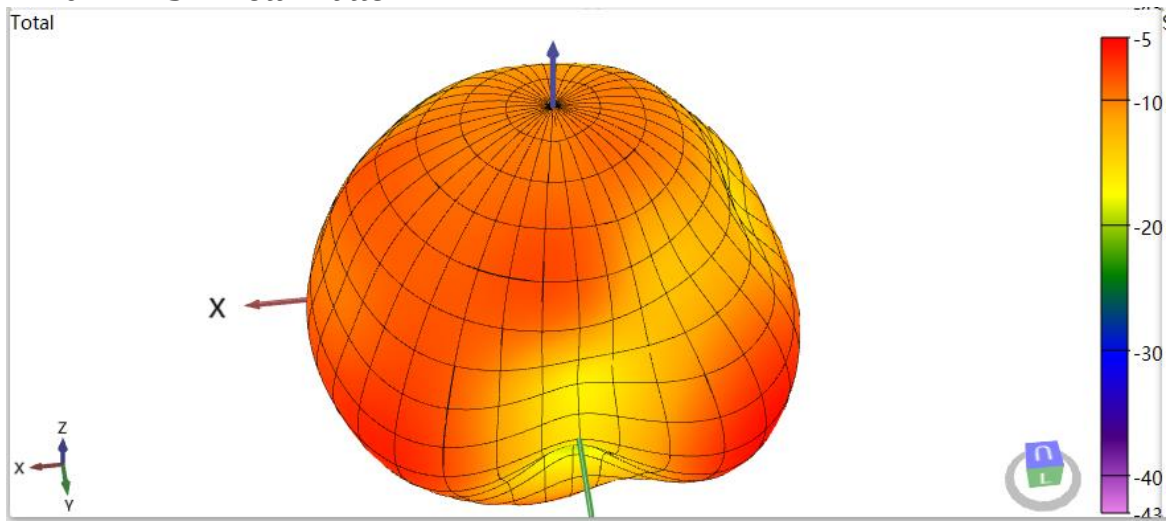
## 天线 2440MHz 3D-Horizontal Pattern



## 天线 2440MHz 3D-Vertical Pattern



## 2440MHz 3D-Total Pattern



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