

深圳市大山通讯有限公司  
**Shenzhen Dasan Communication Co., Ltd.**

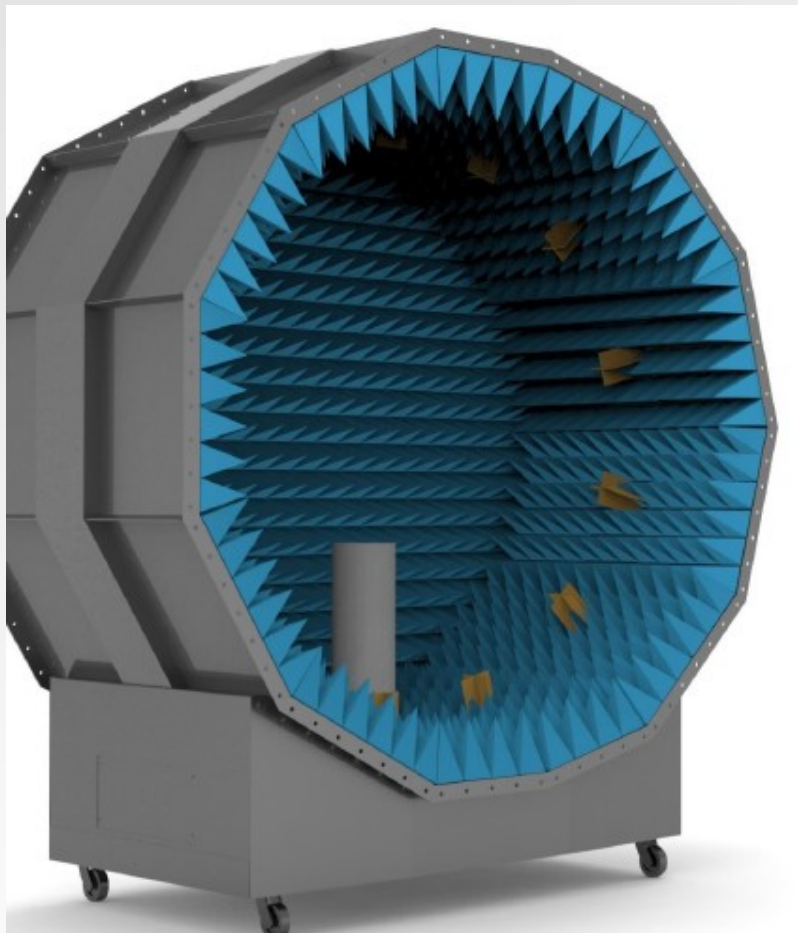
# ***TL610 Antenna Evaluating Report***

**Prepared By: Mo**

**Date of Report: 2025-9-19**

| Date      | Rev | Description                  |
|-----------|-----|------------------------------|
| 2025-9-19 | 01  | TEST Ant Efficiency and Gain |
|           |     |                              |
|           |     |                              |

# 测试设备 / Equipment



- Chamber : GTS Rayzone1800
- 网络分析仪 : Agilent E5071C
- 2G/3G综测仪 : Agilent 8960
- LTE综测仪 : Anritsu MT8820
- TD综测仪 : StarPoint SP6010
- WIFI综测仪 : Anritsu MT8860
- GPS信号源 : Agilent E4438C

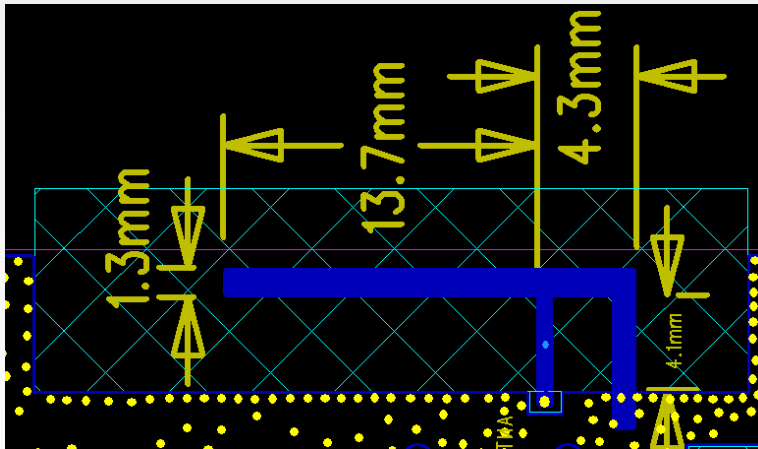
# 整机环境说明 / Fixture Environment

## ANT BAND

| 使用系统     | Band | 使用系统      | Band |
|----------|------|-----------|------|
| GSM      | -    | WIFI / BT | 2.4G |
| WCDMA    | -    | 全球定位      | -    |
| TD-SCDMA | -    | FM        | -    |
| CDMA     | -    | Others    | -    |
| FDD LTE  |      |           |      |
| TDD LTE  |      |           |      |

# Antenna information

- **P/N:** TL610 ANT
- **ANT Type:** Antenna on Board
- **Manufacturer:** Shenzhen Xinzhide Technology Co., Ltd.
- **Manufacturer Address:** *5th Floor, Building A, Anzhilong Industrial Park, Longhua New District, Shenzhen City, China*
- **Dimension(Unit : mm):**



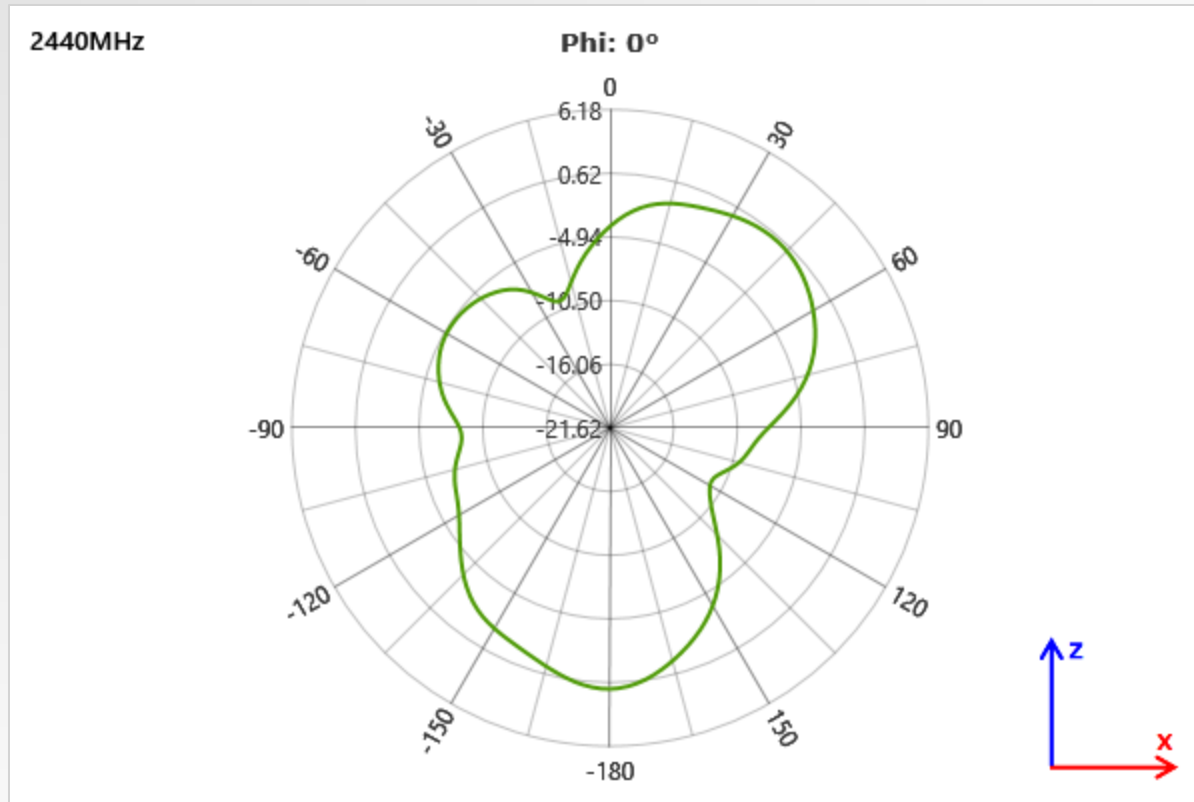
# Ant TEST

## Effic & Gain

| Frequency(MHz) | Gain(dBi) | Efficiency(dB) | Efficiency(%) |
|----------------|-----------|----------------|---------------|
| 2400           | 1.01      | -3.95          | 40.24         |
| 2410           | 1.77      | -3.91          | 40.64         |
| 2420           | 2.18      | -3.91          | 40.63         |
| 2430           | 2.03      | -3.91          | 40.64         |
| 2440           | 1.63      | -3.97          | 40.12         |
| 2450           | 0.98      | -4.03          | 39.57         |
| 2460           | 0.67      | -4.18          | 38.18         |
| 2470           | 0.33      | -4.39          | 36.37         |
| 2480           | 0.17      | -4.55          | 35.05         |
| 2490           | 0.19      | -4.76          | 33.4          |
| 2500           | 0.48      | -4.91          | 32.28         |

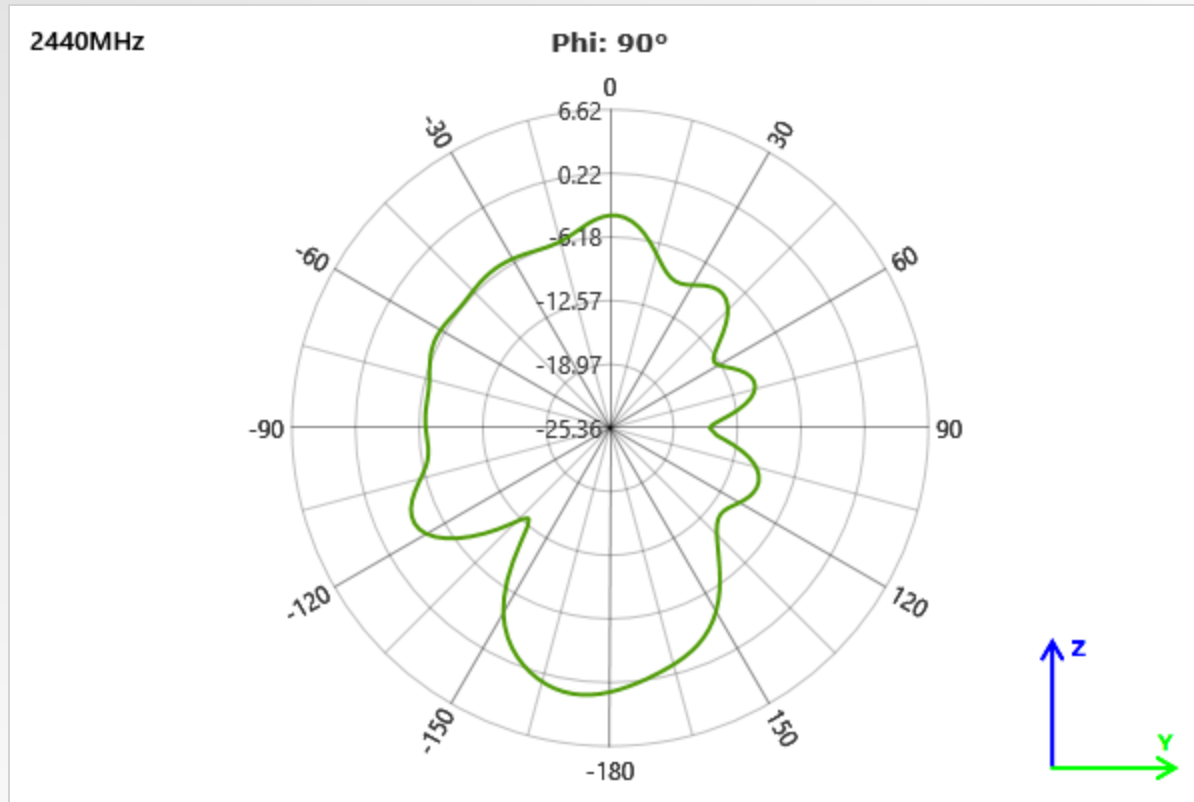
# Ant TEST

## E1 Plant



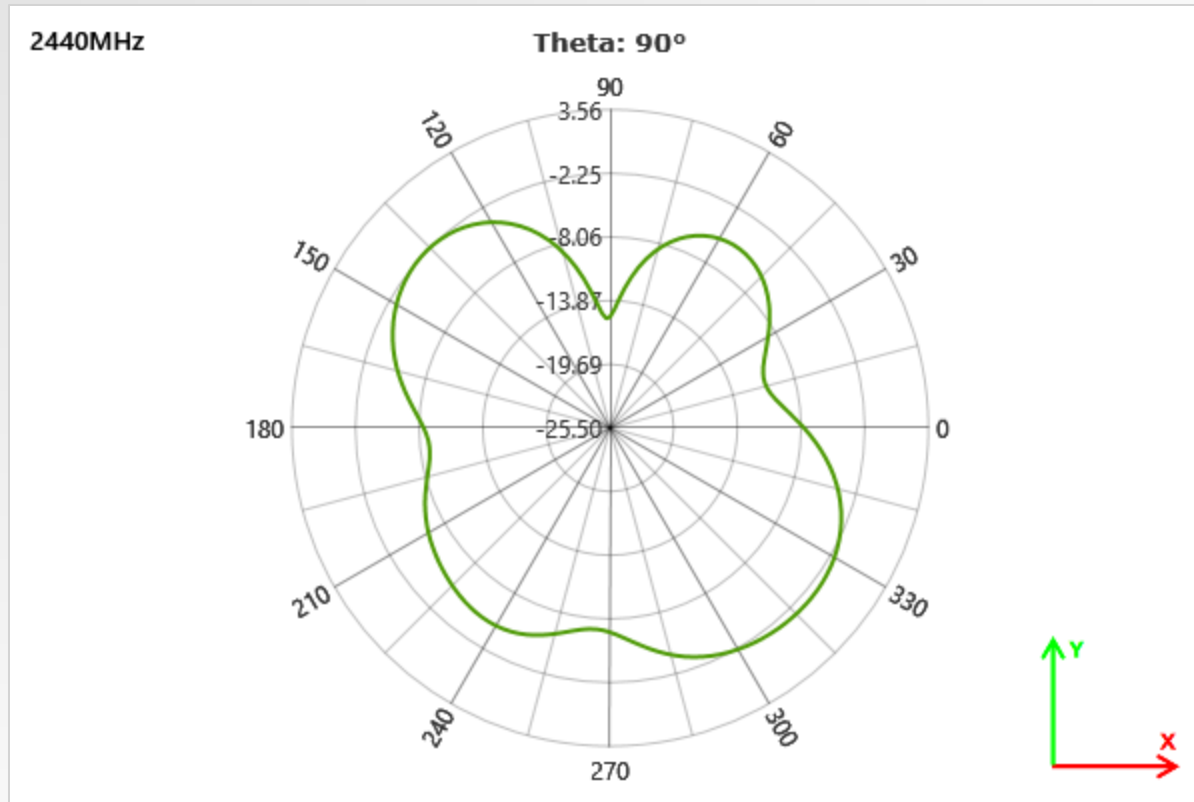
# Ant TEST

## E2 Plant



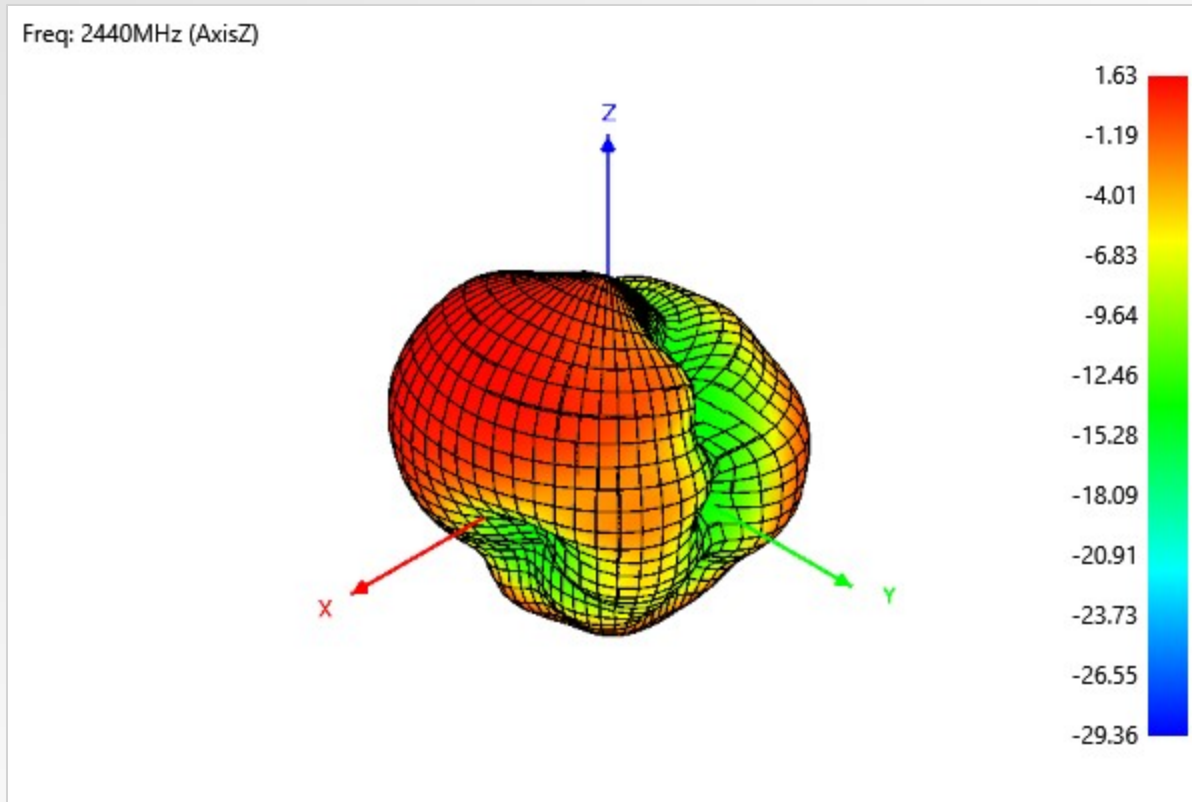
# Ant TEST

H plant



# Ant TEST

## 3D Radiation



# Thank You



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