

专业的**RF**研发机构



深圳市德威玛通讯设备有限公司

天线测试报告

1

2

item: **CF536**

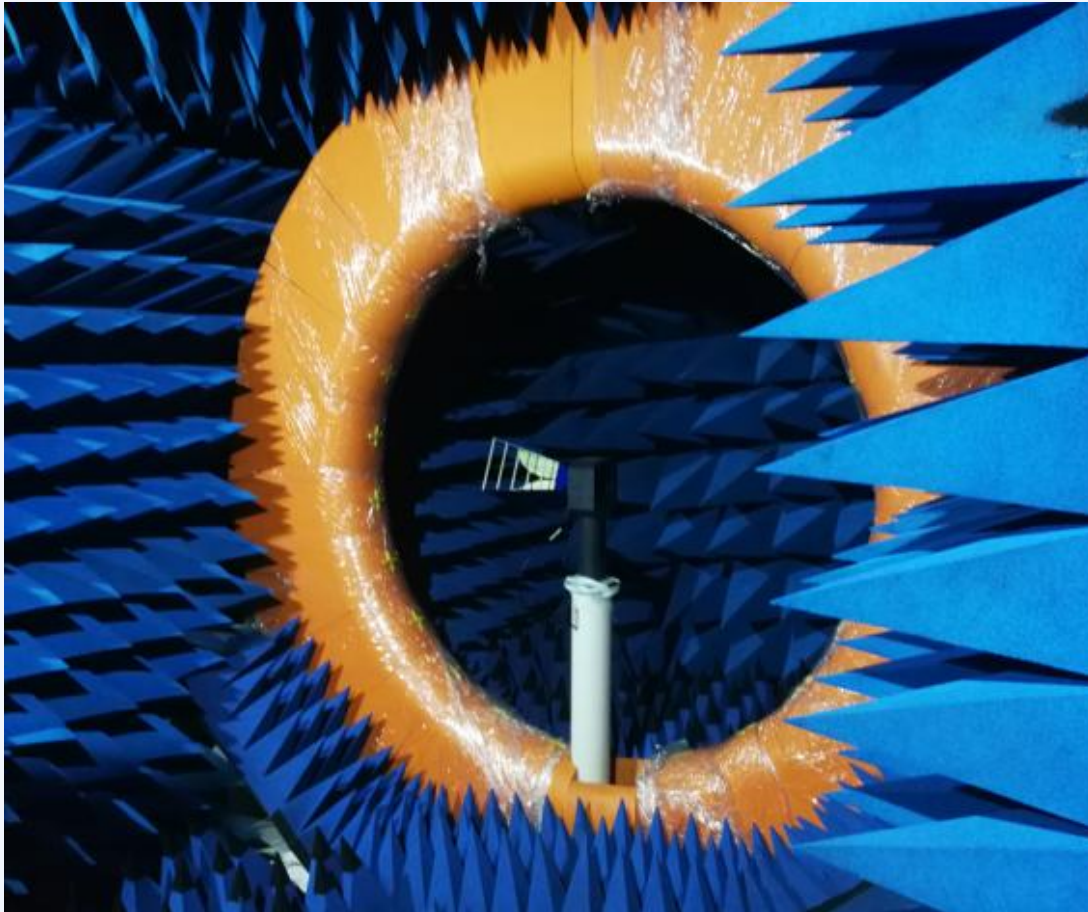
3

Band: **WIFI**

4

Note:

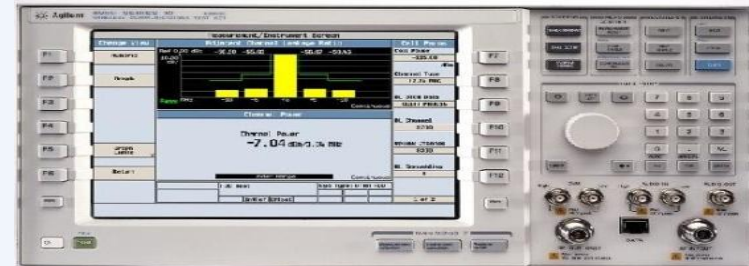
Testing equipment



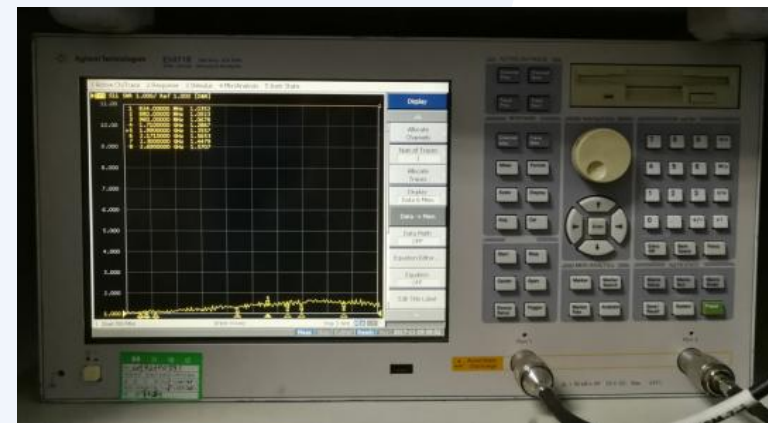
A 24-probe microwave chamber



R&S CMW500

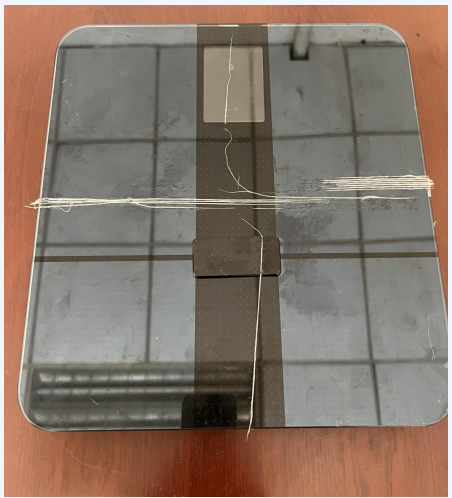


Agilent E5515C

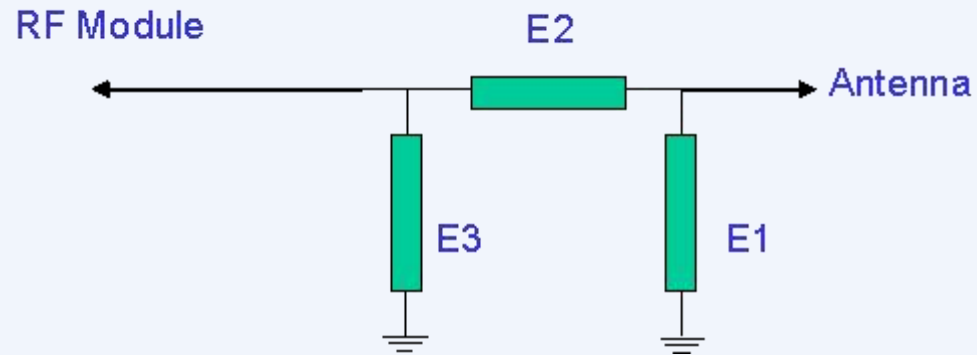


Agilent Technologies E5071B

| | | | | | |
|------|-------------------|------------------|-----|------|--------------|
| Band | WIFI:2400~2500MHz | test Engineer | 覃球铭 | Ver. | DWM- V1.0 |
|------|-------------------|------------------|-----|------|--------------|

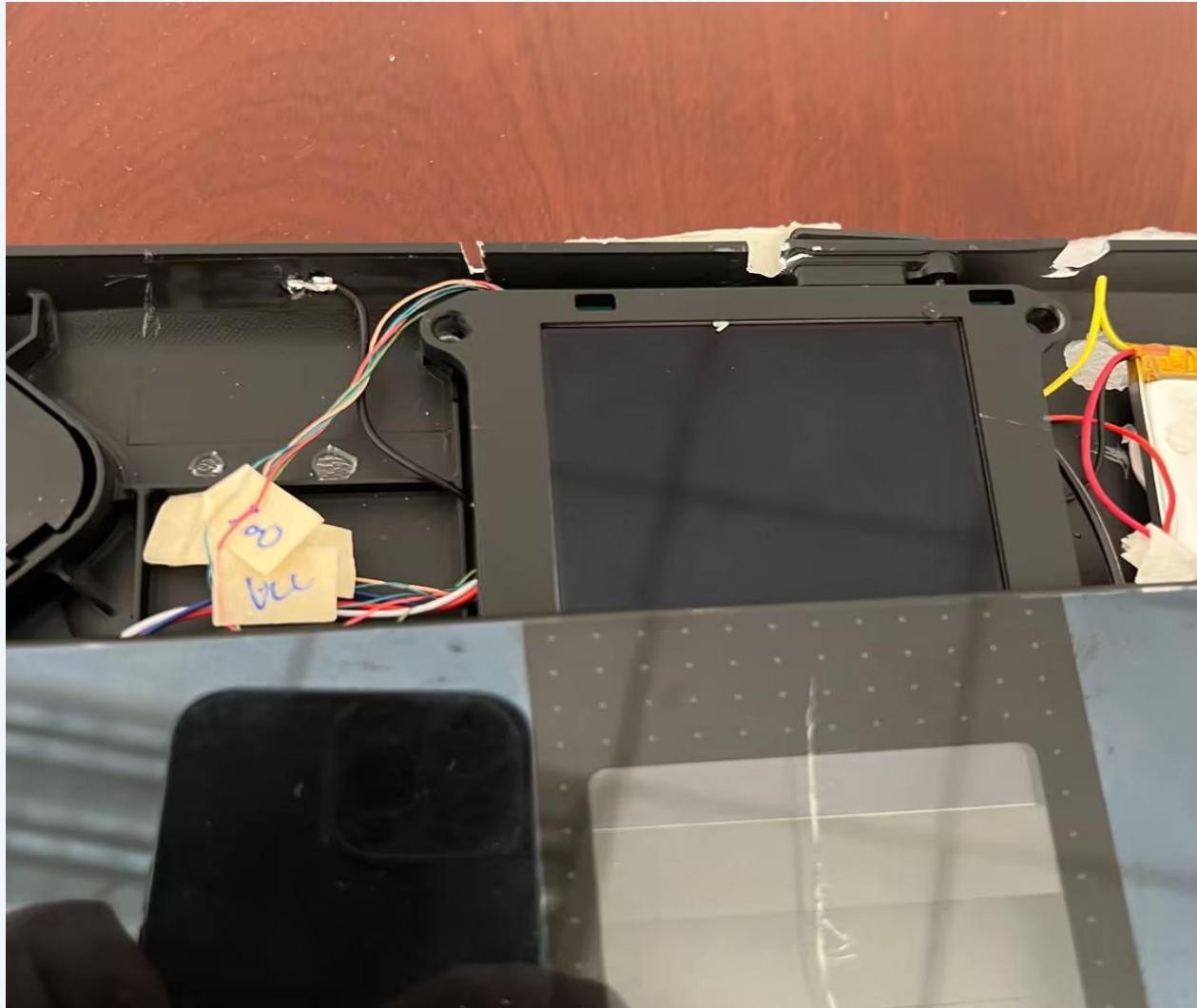


WiFi Antenna matching circuit

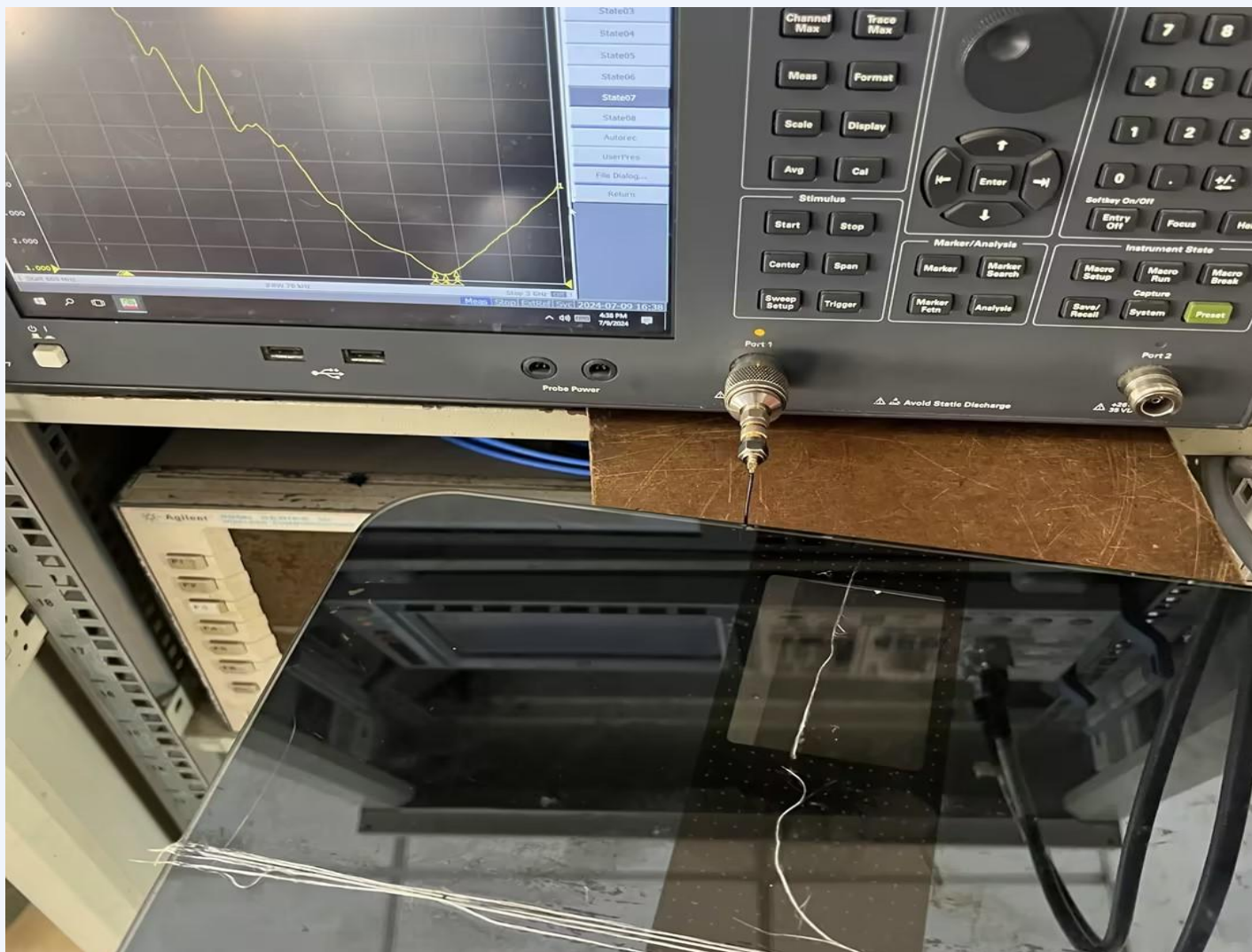


| Element | Value | Vender |
|----------|-------|--------|
| E1(0402) | | |
| E2(0402) | | |
| E3(0402) | | |

WIFI Antenna position



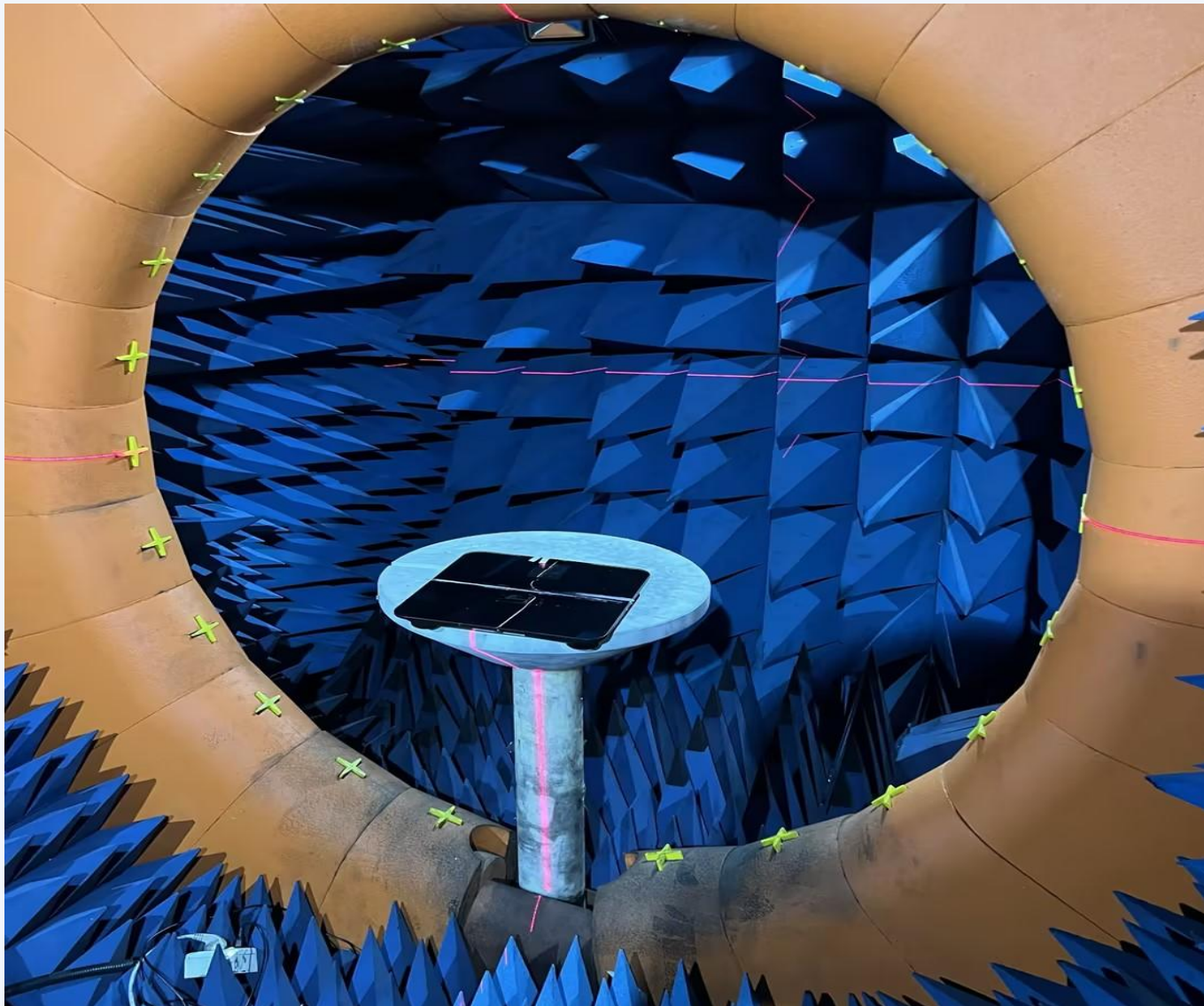
WIFI Antenna passive test



WIFI Antenna passive test



WIFI Antenna OTA

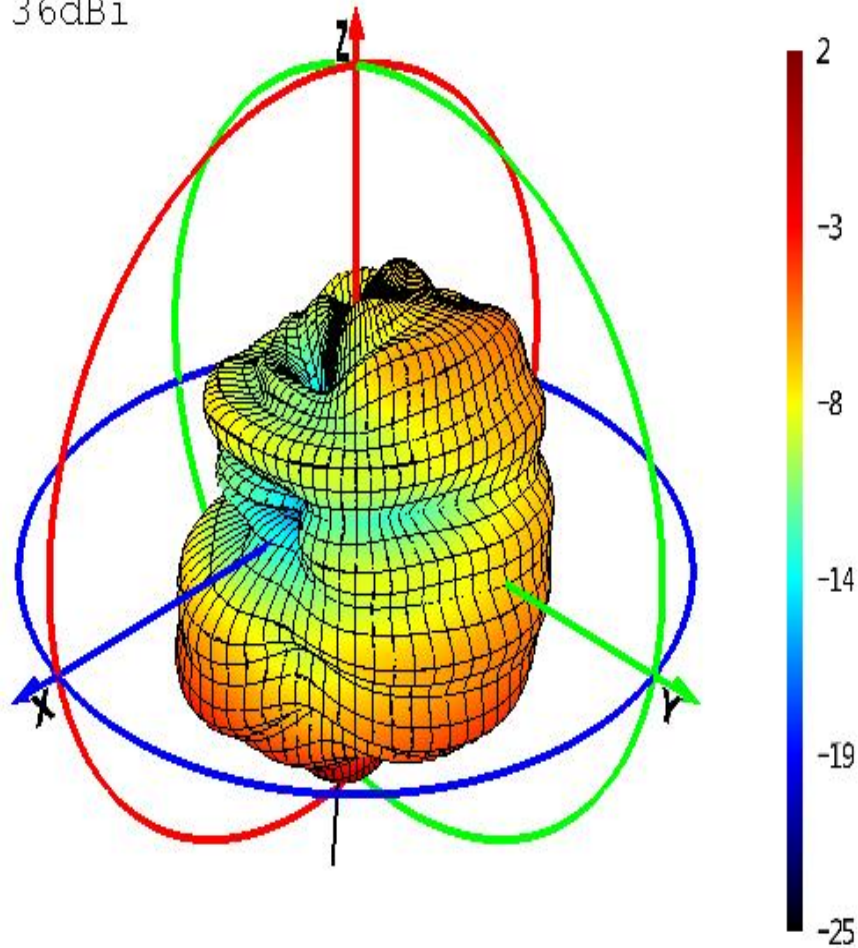


WIFI Antenna Gain and Efficiency

| Frequency 频率(MHz) | Gain 增益(dBi) | MinGain 最小增益(dBi) | Efficiency 效率(%) |
|----------------------|-----------------|----------------------|---------------------|
| 2400.00 | 1.88 | -25.36 | 31.52 |
| 2410.00 | 1.64 | -26.34 | 31.09 |
| 2420.00 | 1.70 | -28.10 | 30.07 |
| 2430.00 | 1.78 | -33.88 | 32.70 |
| 2440.00 | 1.74 | -38.05 | 33.37 |
| 2450.00 | 1.20 | -35.18 | 31.58 |
| 2460.00 | 1.93 | -31.18 | 30.15 |
| 2470.00 | 2.55 | -28.98 | 30.65 |
| 2480.00 | 2.90 | -27.07 | 34.19 |
| 2490.00 | 2.73 | -25.13 | 34.67 |
| 2500.00 | 2.93 | -25.63 | 34.97 |

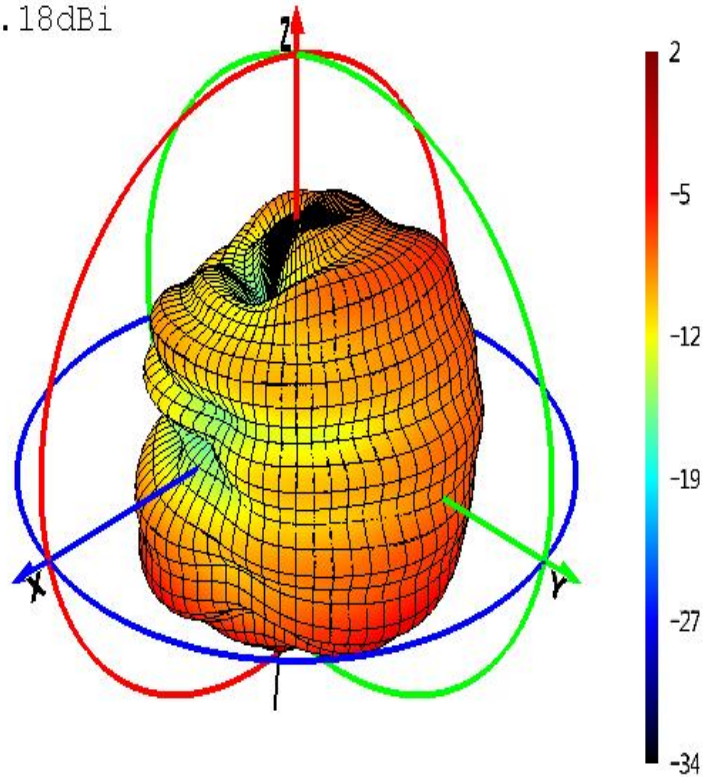
WIFI Antenna pattern (2400MHz)

MAX:1.88dBi
MIN:-25.36dBi



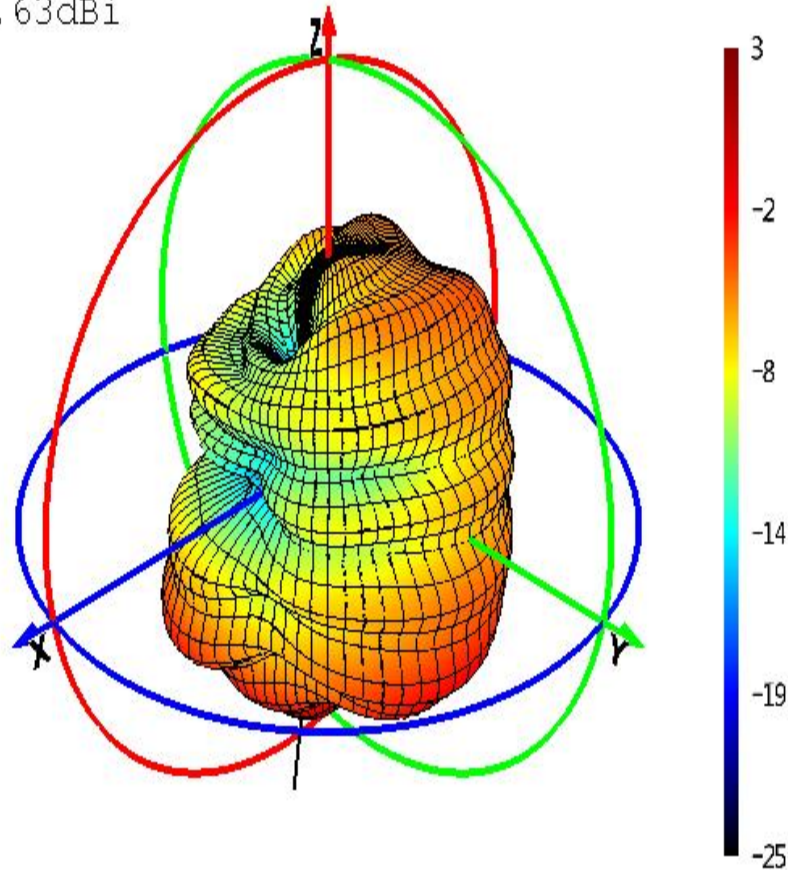
WIFI Antenna pattern (2450MHz)

MAX:1.2dBi
MIN:-35.18dBi



WIFI Antenna pattern (2500MHz)

MAX: 2.93dBi
MIN: -25.63dBi



WIFI Antenna OTA test data

| Item | Measurement | Azimuths | Elevations | Standard | Band | Channel | Frequency | Total |
|------|-------------|----------|------------|-----------|--------------|---------|-----------|--------|
| 1 | TRP | Every30 | Every30 | WIFI (AP) | WIFI_B (11M) | 1 | 2412 | 14.36 |
| 2 | TRP | Every30 | Every30 | WIFI (AP) | WIFI_B (11M) | 6 | 2437 | 14.92 |
| 3 | TRP | Every30 | Every30 | WIFI (AP) | WIFI_B (11M) | 11 | 2462 | 15.65 |
| 4 | TIS(EIRP) | Every30 | Every30 | WIFI (AP) | WIFI_B (11M) | 11 | 2462 | -80.27 |

專業的**RF**研發機構



Thank You !

公司地址：深圳市宝安**23**区创业二路友谊大厦**1**栋**3**楼（地铁洪浪北**B**出口平安银行后面）