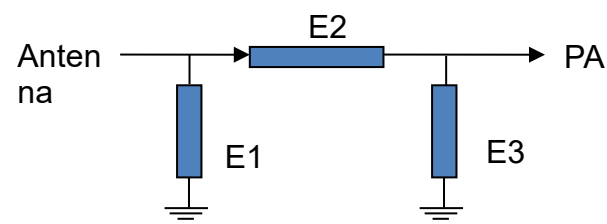


TAZ5000 BT Antenna spec.

DATE: 2025/2/16

| Antenna | Frequency band | Fype        | Supplier&address                                                                                                                                                   |
|---------|----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BT      | 2400-2480MHz   | PCB Antenna | Baikai Electronics Co., Ltd &Room 601, Building H, No. 1, Tailian Lane, Shuanglong Road,The 2nd Industrial zone, Xiaobian Community, Chang 'an Town, Dongguan city |

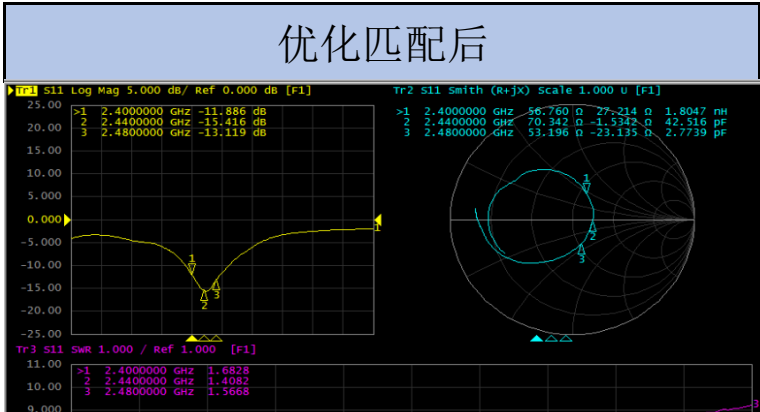
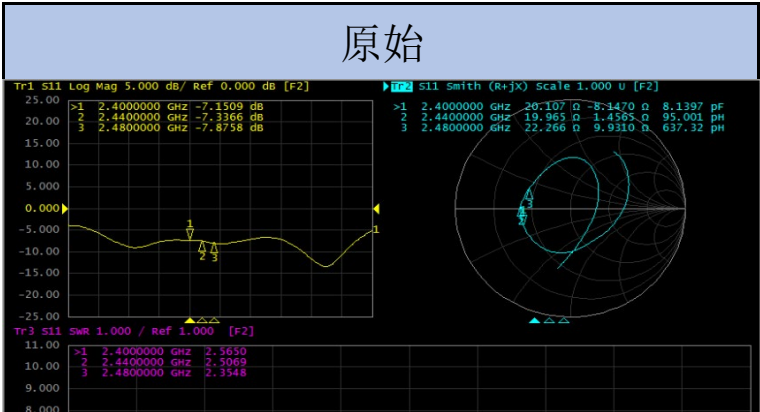
Antenna end matching circuit:

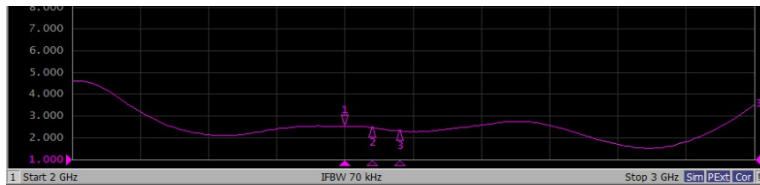


| BT       |     |
|----------|-----|
| Element  |     |
| E1(0402) | 原匹配 |
| E2(0402) | 原匹配 |
| E3(0402) | 原匹配 |

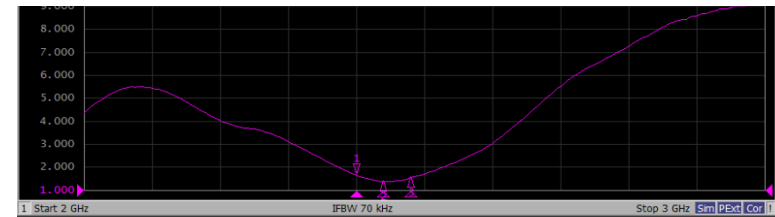
| 优化匹配     |       |
|----------|-------|
| Element  |       |
| E1(0402) | 0.8pF |
| E2(0402) | 2.0nH |
| E3(0402) |       |

Antenna passive S11 parameter test:





|            |       |       |       |
|------------|-------|-------|-------|
| Freq (MHz) | 2400  | 2440  | 2480  |
| SWR        | 2.57  | 2.51  | 2.35  |
| Log Mag    | -7.15 | -7.34 | -7.88 |



|            |        |        |        |
|------------|--------|--------|--------|
| Freq (MHz) | 2400   | 2440   | 2480   |
| SWR        | 1.68   | 1.41   | 1.57   |
| Log Mag    | -11.89 | -15.42 | -13.12 |

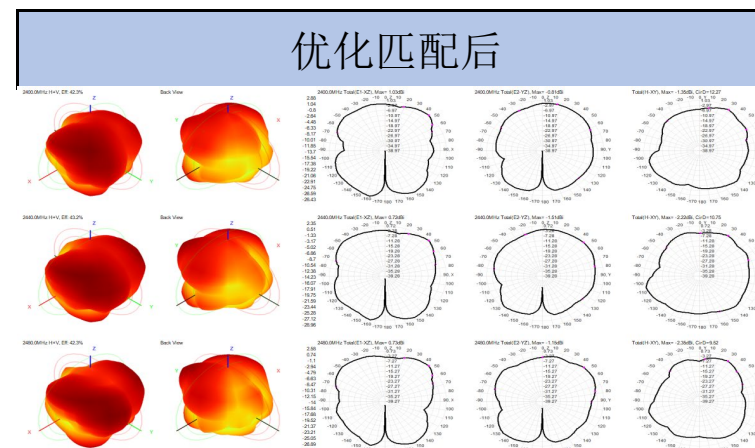
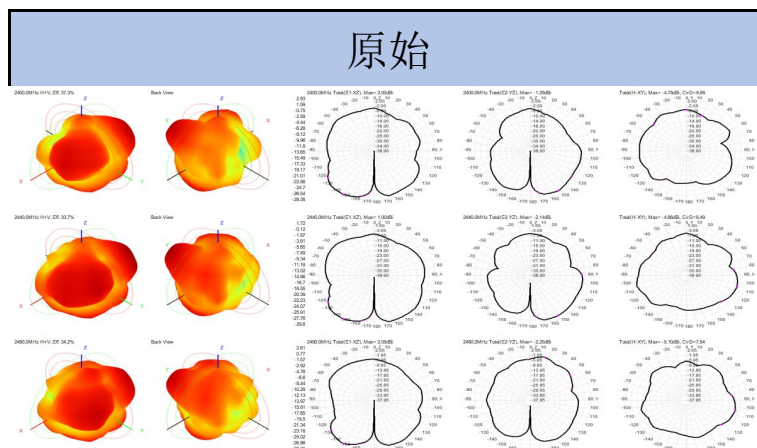
## Antenna passive efficiency and gain test:

| Frequency (MHz) | Gain (dBi) | Efficiency (%) |
|-----------------|------------|----------------|
| 2400            | 2.88       | 42.33          |
| 2410            | 4.81       | 43.28          |
| 2420            | 2.71       | 43.64          |
| 2430            | 2.63       | 43.94          |
| 2440            | 2.35       | 43.21          |
| 2450            | 2.24       | 42.62          |
| 2460            | 2.36       | 42.66          |
| 2470            | 2.54       | 42.41          |
| 2480            | 2.58       | 42.29          |

|      |      |       |
|------|------|-------|
| 2490 | 4.81 | 35.43 |
| 2500 | 3.18 | 36.40 |

|      |      |       |
|------|------|-------|
| 2490 | 2.52 | 43.40 |
| 2500 | 2.57 | 43.63 |

Antenna passive radiation pattern:



Antenna OTA test:

| 原始       |      |        |
|----------|------|--------|
| Channels | TRP  | TIS    |
| 0        | 0.34 | -85.55 |
| 39       | 0.83 | -84.03 |
| 78       | 0.5  | -85.68 |

| 优化匹配后    |      |        |
|----------|------|--------|
| Channels | TRP  | TIS    |
| 0        | 0.57 | -89.11 |
| 39       | 0.57 | -87.46 |
| 78       | 0.48 | -87.32 |

Antenna position and matching pictures:

BT

