



# 承 認 書

客戶名稱 Customer: 共進

客戶料號 Customer Material number: 8000000055491341

物料名稱 Material name: 外置天線

物料型號 Material type: SSR-2402018

物料描述 Material description: 銅管結構-2.4G L=150, 1.37 黑色, IPEX (BE58U)

版 本 Edition: V0

| 供 應 商 承 認 The supplier acknowledge |              |
|------------------------------------|--------------|
| 工 程 Engineering                    | 批 准 Approval |
| 袁裕深                                | 叶晔           |
| 蓋章簽署 Signed                        |              |
| 日 期 Date                           | 2024-2-27    |

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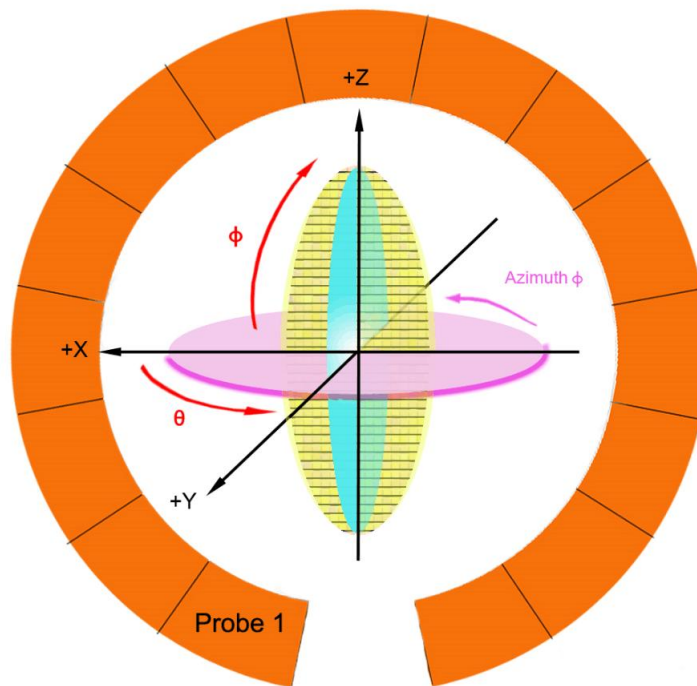
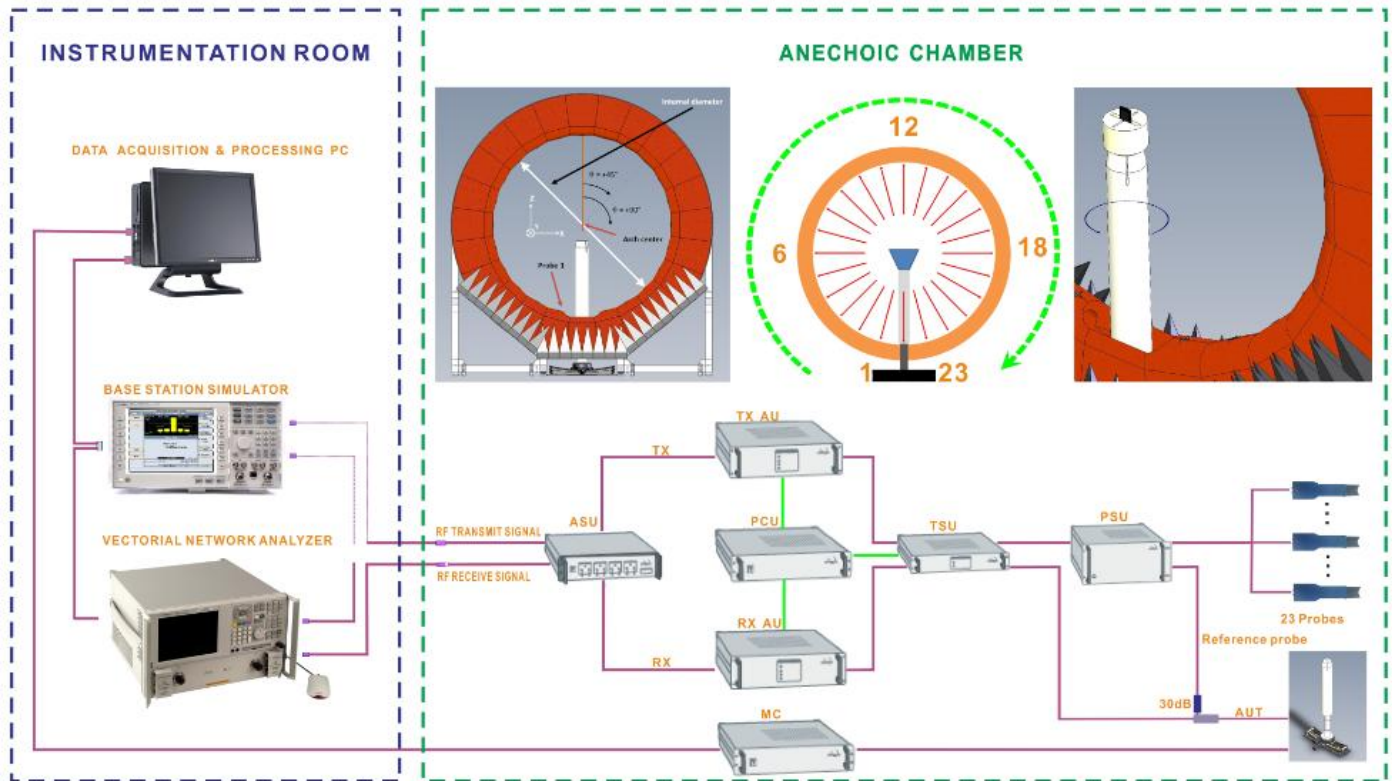
## Specification

| 1. Antenna Electrical Properties: |                       |                  |
|-----------------------------------|-----------------------|------------------|
| 1.1                               | Frequency             | 2400-2500MHz     |
| 1.2                               | Impedance             | 50 ohm Nominal   |
| 1.3                               | VSWR                  | 1.92:1 Max       |
| 1.4                               | Return Loss           | -10 dB Max.      |
| 1.5                               | Radiation             | Omni-directional |
| 1.6                               | Polarization          | Linear; Vertical |
| 2. Physical Properties:           |                       |                  |
| 2.1                               | Operating Temperature | -20~+65℃         |
| 2.2                               | Storage Temperature   | -30~+75℃         |
| 2.3                               | Cable Length          | 150mm            |
| 2.4                               | Cable                 | 1.37mm           |
| 2.5                               | Connector             | MHF              |
| 2.6                               | Antenna mast sleeve   | PC+ABS           |
| 2.8                               | Color                 | Black            |

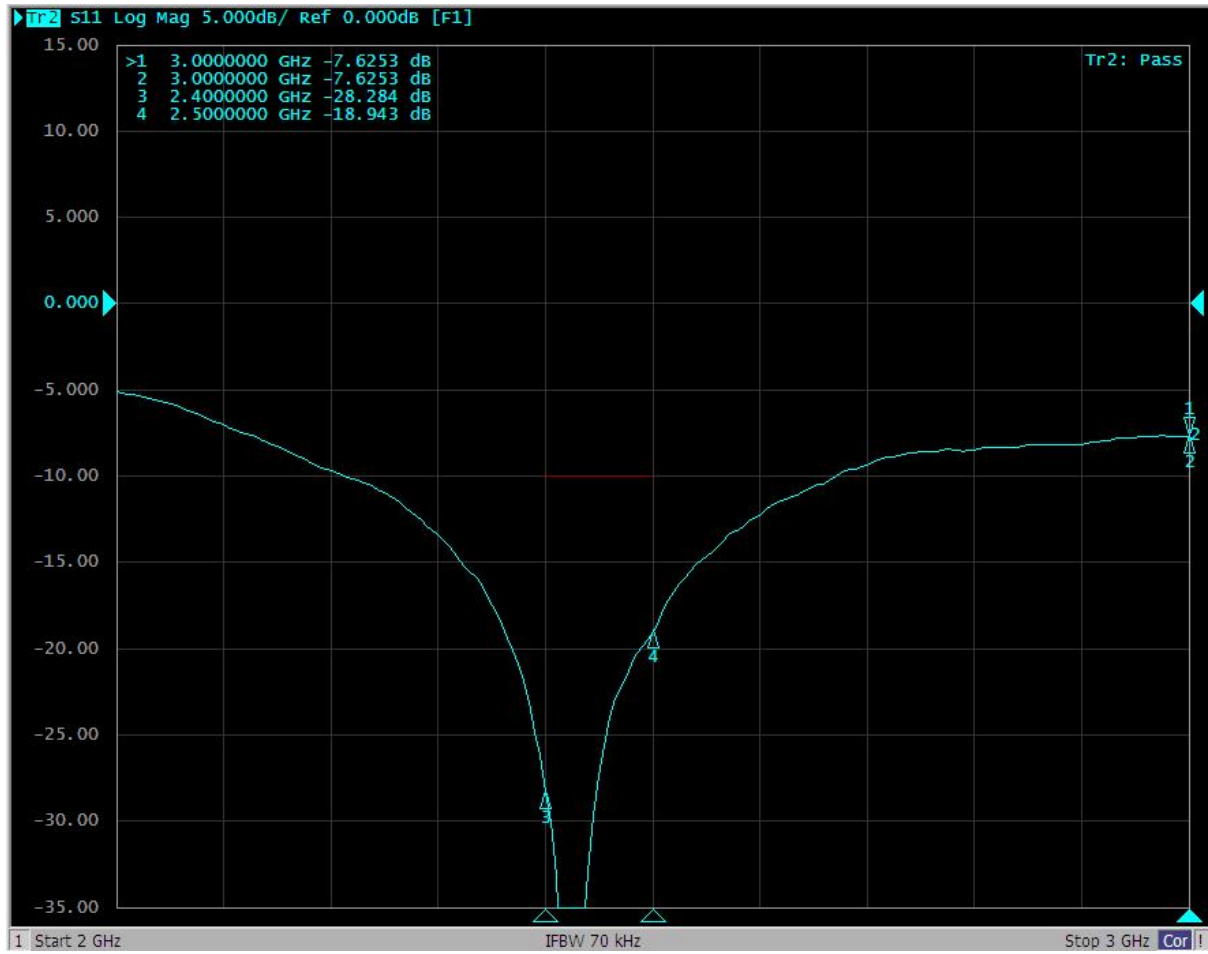
## Test Results

### 1 Antenna

#### Test Setup

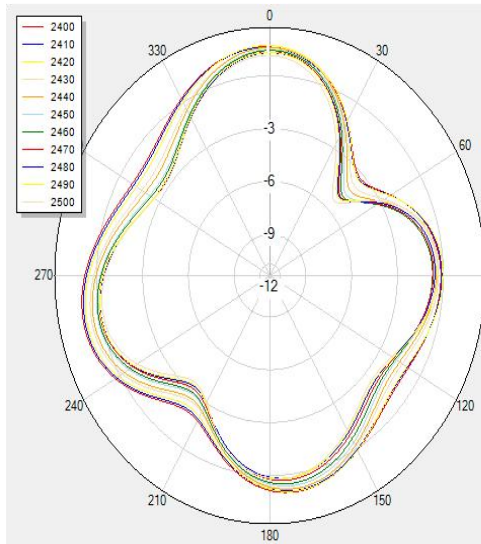


### 3. Antenna S-parameter test results

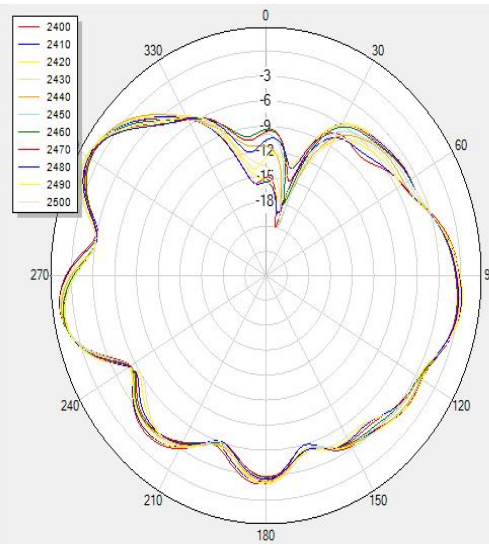


## 2D 图

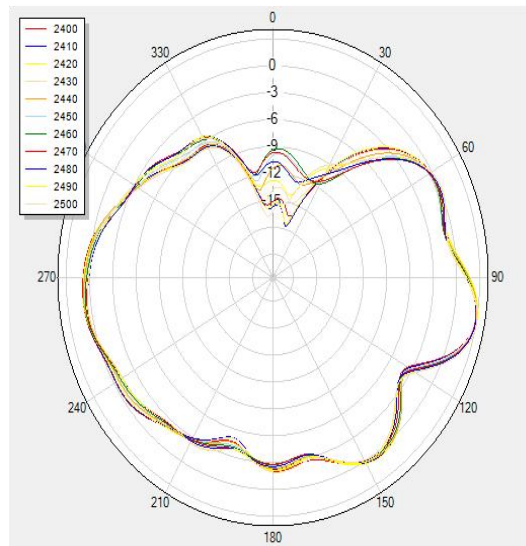
H Theta=90



V Phi=90

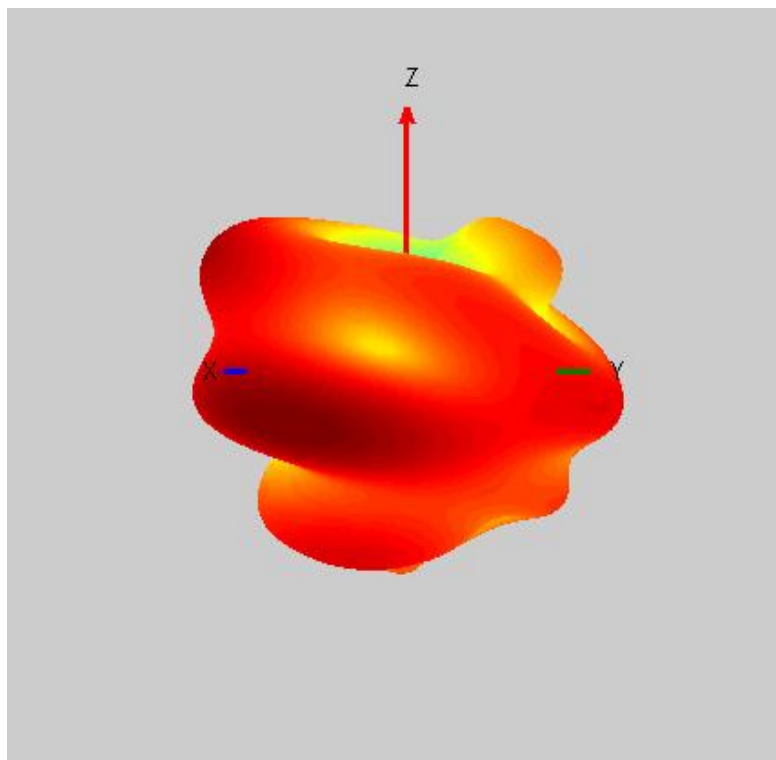


V Phi=0

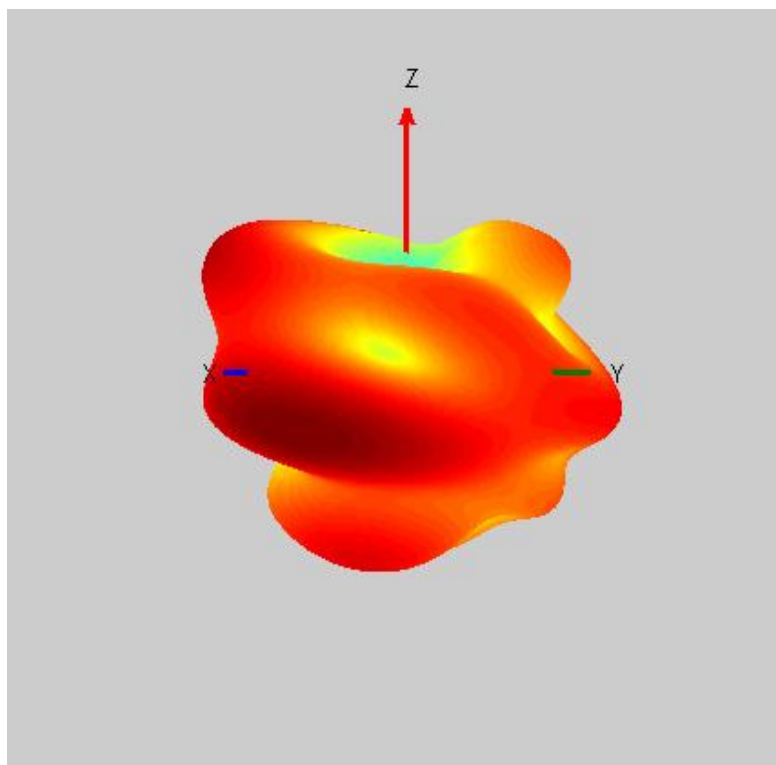


3D 图

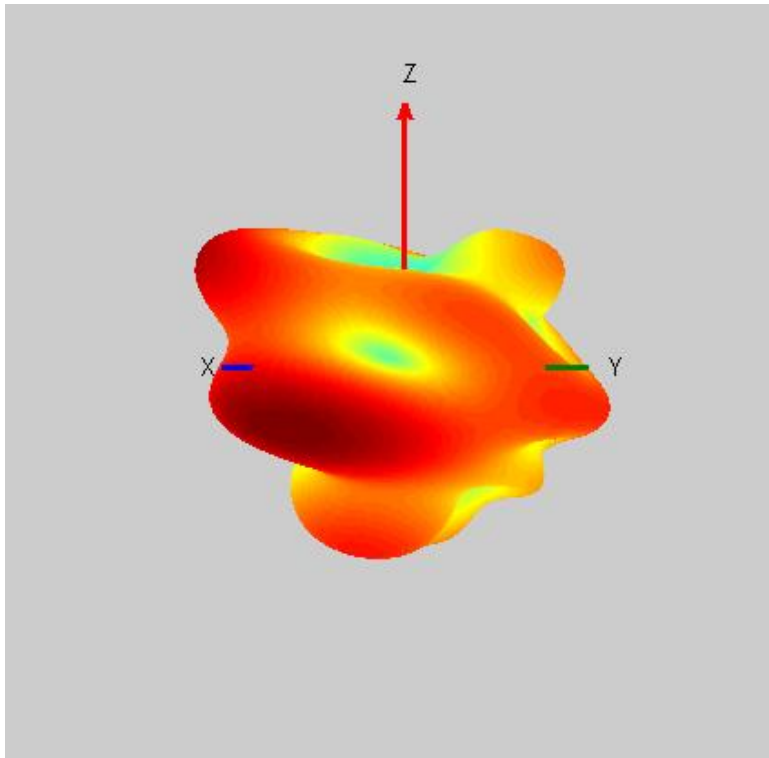
2400



2450



2500



Gain&amp;Efficiency

增益和效率

| frequency<br>频率(MHz) | gain<br>增益(dBi) | efficiency<br>效率(%) |
|----------------------|-----------------|---------------------|
| 2400                 | 3.24            | 71.62               |
| 2410                 | 3.24            | 73.09               |
| 2420                 | 3.35            | 71.54               |
| 2430                 | 3.29            | 72.89               |
| 2440                 | 3.33            | 73.37               |
| 2450                 | 3.36            | 73.76               |
| 2460                 | 3.21            | 72.88               |
| 2470                 | 3.33            | 71.18               |
| 2480                 | 3.29            | 73.41               |
| 2490                 | 3.25            | 72.92               |
| 2500                 | 3.37            | 73.52               |