

深圳市艾特诺通讯设备有限公司  
SHENZHEN ATN COMMUNICATION TECHNOLOGY CO., LTD.  
规 格 书  
SPECIFICATION FOR APPROVL

|                 |                |
|-----------------|----------------|
| 客 户:            | 英卡 Inka        |
| CUSTOMER:       |                |
| 客 户 项 目 :       | YK06A          |
| CUSTOMER PRJ:   |                |
| 客 户 料 号:        | WIFI A N T     |
| CUSTOMER P/N:   |                |
| 本 厂 项 目:        | ATN140003-WIFI |
| OUR PRJ:        |                |
| 规 格:            | 2.4~2.48GHz    |
| SPECIFICATIONS: |                |
| 样 品 数:          | 1 PCS          |
| Q' TY:          |                |
| 日 期:            | 2025.11.27     |
| DATE:           |                |

| 深圳市艾特诺通讯设备有限公司<br>A T N |               |                | 客 户<br>CUSTOMER |                   |                |
|-------------------------|---------------|----------------|-----------------|-------------------|----------------|
| 制作<br>make              | 审核<br>examine | 核准<br>Approver | 结构<br>Structure | 电子<br>Electronics | 核准<br>Approver |
|                         |               |                |                 |                   |                |

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### Release/Change Log

| date       | versions | content               | remark |
|------------|----------|-----------------------|--------|
| 2025.11.27 | A0       | First edition release |        |
|            |          |                       |        |
|            |          |                       |        |

## 1、测试设备 Test Equipment&Conditions

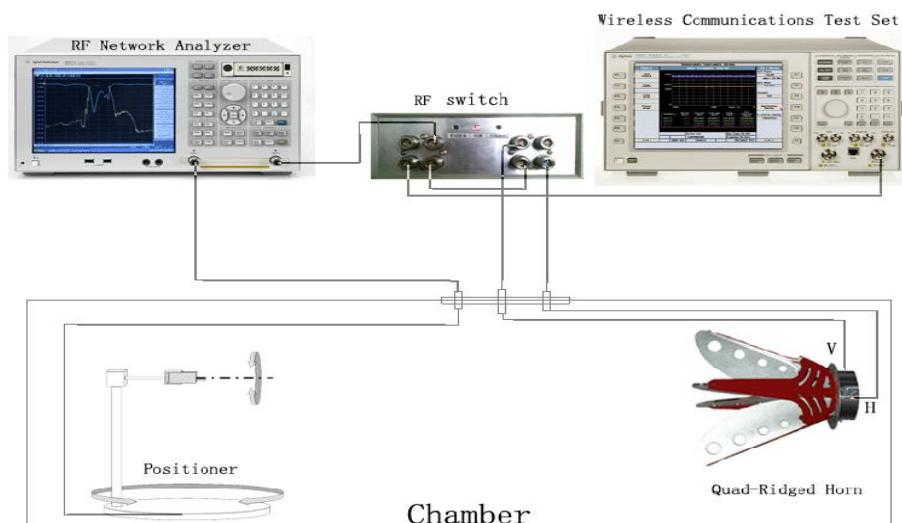
### 1.1 网络分析仪 (Network Analyzers)

Agilent Technologies E5071B

### 1.2 综合测试仪 (Communications Test Set)

CMW500

### 1.3 3D 暗室测试系统 ( Test System)



## 2、产品规格 Product Specification

### 2.1、Material&Mechanical Characteristics

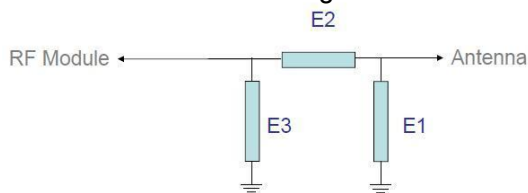
|                   |              |
|-------------------|--------------|
| 材质 Material       | FPC+RF wire  |
| 天线类型 Antenna type | PIFA antenna |

### 2.2、储存条件 Storage conditions

|                          |         |
|--------------------------|---------|
| 储存温度 Storage Temperature | 22℃±5℃  |
| 相对湿度 relative humidity   | 35-65%  |
| 储存期限 Storage life        | 60 date |

### 3、匹配电路 Matching circuit

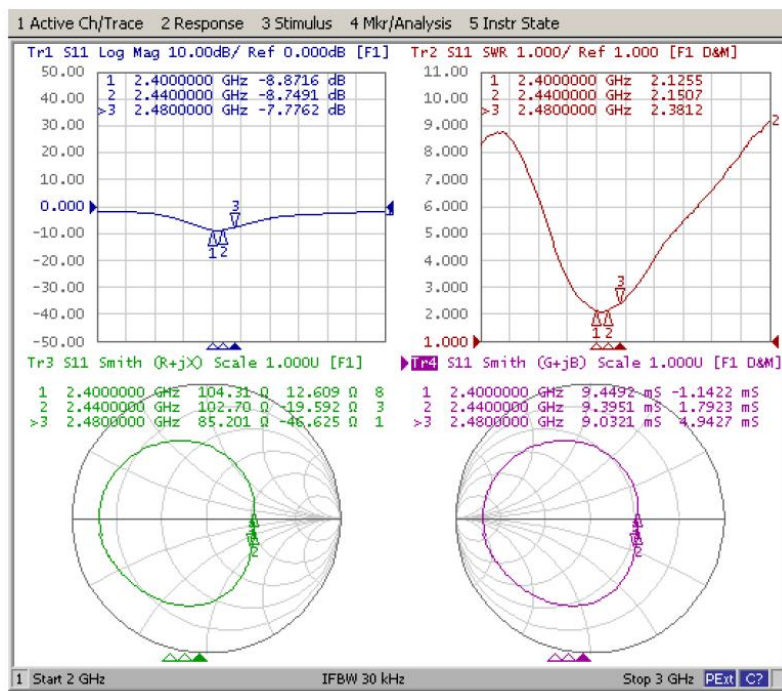
#### Antenna matching circuit



| Element         | Value |
|-----------------|-------|
| E1(0201)        | NC    |
| E2(0201)        | 0R    |
| E3(0201)        | NC    |
| Match unchanged |       |

### 4、测试数据报告 Test Data Report

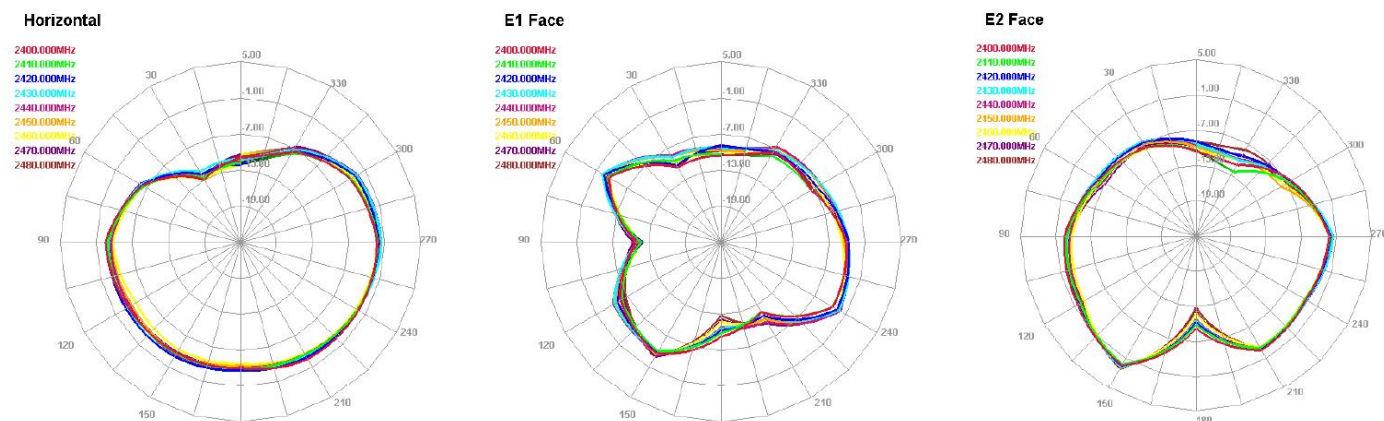
#### 4.1 S11 Parameter

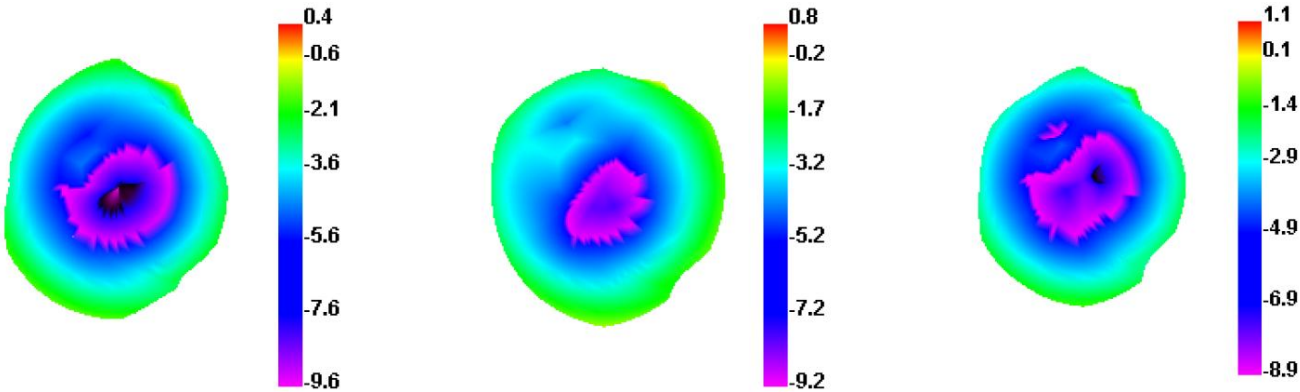


#### 4.2 增益和效率 Gain & Efficiency

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 35.76       | -4.47        | 0.38          |
| 2410          | 34.43       | -4.63        | 0.19          |
| 2420          | 38.37       | -4.16        | 0.52          |
| 2430          | 40.6        | -3.91        | 0.73          |
| 2440          | 40.43       | -3.93        | 0.75          |
| 2450          | 39.25       | -4.06        | 0.81          |
| 2460          | 34.87       | -4.57        | 0.68          |
| 2470          | 37.16       | -4.3         | 0.88          |
| 2480          | 37.59       | -4.25        | 1.11          |

#### 4.3 方向图 Radiation pattern





## 7、尺寸检测报告 Size test report

### 尺寸检验报告 Dimension test report

| <b>项目 project:</b> YK06A                                |     |           | <b>品名 Product Name:</b> WIFI antenna                                                                                                                        |       |       |       |                            |                |
|---------------------------------------------------------|-----|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|----------------------------|----------------|
| <b>类别 category:</b> FPC+RF 线                            |     |           | <b>数量 Quantity:</b> 5 pcs                                                                                                                                   |       |       |       | <b>日期 Date:</b> 2025.11.27 |                |
| <b>检验依据标准:</b> Inspection basis and standard            |     |           | <input checked="" type="checkbox"/> 工程图纸 Engineering drawings<br><input type="checkbox"/> 标准样板 Standard template<br><input type="checkbox"/> 其它 Other _____ |       |       |       |                            |                |
| <b>测量设备&amp;精度 Measurement equipment &amp; accuracy</b> |     |           | 卡尺 Vernier caliper & 0.02mm                                                                                                                                 |       |       |       |                            |                |
| 检验项目 Inspection items                                   |     |           | 样品测验值 test value                                                                                                                                            |       |       |       |                            | 判定结果 determine |
|                                                         |     |           | 1                                                                                                                                                           | 2     | 3     | 4     | 5                          |                |
| 尺寸检验<br>Dimensional inspection                          | 1.  | 80±2      | 80.18                                                                                                                                                       | 80.24 | 80.20 | 80.28 | 80.10                      | OK             |
|                                                         | 2.  | 0.81±0.05 | 0.80                                                                                                                                                        | 0.80  | 0.80  | 0.80  | 0.80                       | OK             |
|                                                         | 3.  | 5±0.2     | 5.06                                                                                                                                                        | 5.02  | 5.10  | 5.08  | 5.06                       | OK             |
|                                                         | 4.  | 38±0.2    | 38.08                                                                                                                                                       | 38.14 | 38.10 | 38.06 | 38.10                      | OK             |
|                                                         | 5.  | 0.13±0.03 | 0.12                                                                                                                                                        | 0.12  | 0.12  | 0.12  | 0.12                       | OK             |
|                                                         | 6.  | /         |                                                                                                                                                             |       |       |       |                            |                |
|                                                         | 7.  |           |                                                                                                                                                             |       |       |       |                            |                |
|                                                         | 8.  |           |                                                                                                                                                             |       |       |       |                            |                |
|                                                         | 9.  |           |                                                                                                                                                             |       |       |       |                            |                |
|                                                         | 10. |           |                                                                                                                                                             |       |       |       |                            |                |
|                                                         | 11. |           |                                                                                                                                                             |       |       |       |                            |                |