

## Sample Acknowledgment Letter

File Version Number: A1

|                       | client                                                                                                     | Contract<br>manufacturer            | Material Supplier |
|-----------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|
| Partner Name:         | Anker                                                                                                      |                                     | Ubi               |
| project name :        | T8L60                                                                                                      |                                     | T8L60             |
| Material Number:      |                                                                                                            |                                     | UB01C43F1D5616A   |
| Material Description: | 2.4G-ANT0 FPC with built-in antenna; Model 1.13, black cable (length L = 45 mm), first-generation terminal |                                     |                   |
| Recognition Date:     | 2026-06-29                                                                                                 | Version of the<br>Admission Letter: | V4                |

| Supplier Confirmation    |         |
|--------------------------|---------|
| research and development | Quality |
|                          |         |

Signature Notes: 1. This acknowledgment form shall be prepared in at least five copies: one copy

| Anker approval                               |            |
|----------------------------------------------|------------|
| Zhixin R&D<br>Zhixin MD/HW/ID Authentication | Zhixin SQE |
|                                              |            |

each for Anker R&D and SQE, one copy for the material manufacturer, and one copy for the contract manufacturer.Keep two copies at the factory;

2. Each Anker user must have the owner's signature bearing the company's full English name.

3. First, send the electronic version to Anker's respective R&D and SQE departments for confirmation; only after approval should you submit the paper version for signing.

# acknowledgement

## APPROVAL SHEET

CUSTOMER NAME: Anker

Product Name:

2.4G-ANT0 FPC Built-in Antenna; Model Number: 1.13; Color: Black;

Wire Length: 45 mm; Type of Terminal: First-generation

Customer Document Number

Youbi

P/N:

UB01C43F1D5616A

REV: D

|              | MANUFACTURER<br>SIGNATURE                                                                   | CUSTOMER<br>SIGNATURE |
|--------------|---------------------------------------------------------------------------------------------|-----------------------|
| CHECKED BY:  | Lina<br> |                       |
| APPROVED BY: | Zhijun.zhu                                                                                  |                       |
| DATE:        | 2026-06-29                                                                                  |                       |



Dongguan Youbi Electronics Co.,LTD

**catalogue**

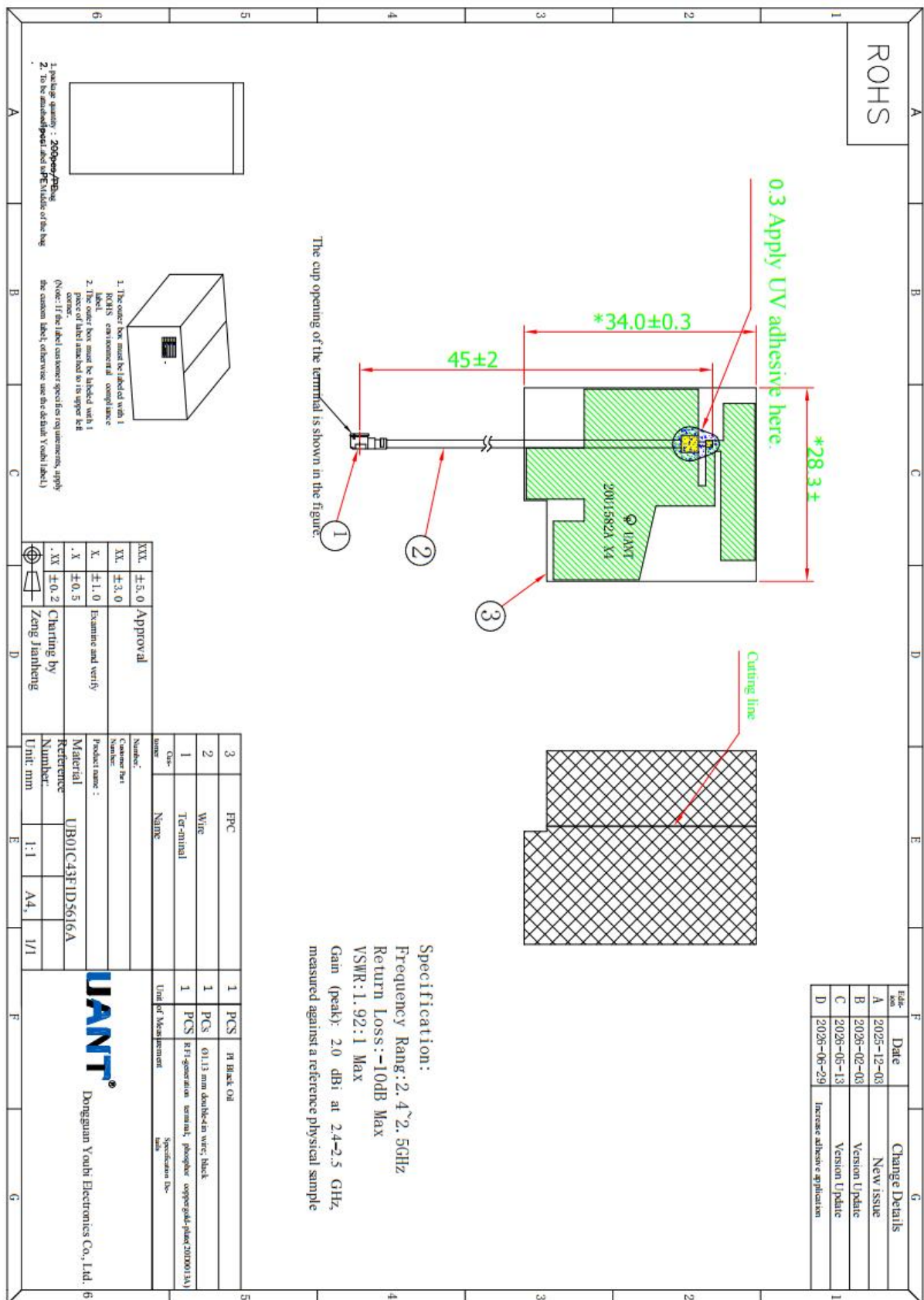
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## 1、 Revision History

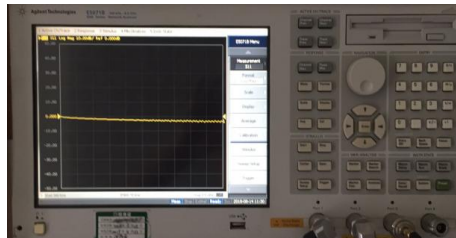
| Version | Content Revision        | Issued by | Date       |
|---------|-------------------------|-----------|------------|
| A       | Original version        | lina      | 2025-12-04 |
| B       | Modify the line length  | lina      | 2026-02-02 |
| C       | Antenna version upgrade | lina      | 2026-05-13 |
| D       | Antenna version upgrade | lina      | 2026-06-29 |
|         |                         |           |            |
|         |                         |           |            |
|         |                         |           |            |

## 2、Product 2D Drawings



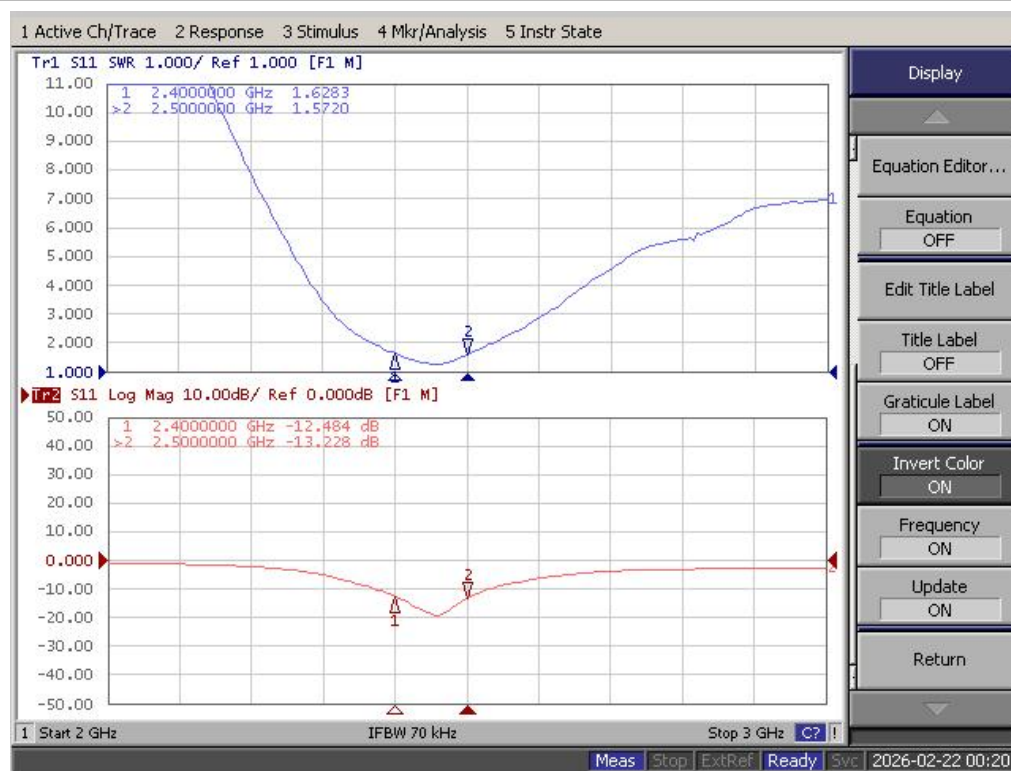
### 3、 Test Equipment

|                                                | Test items                                   | Test equipment                                                                       |
|------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| <b>S Parameter</b>                             | 1.Return Loss<br>2.VSWR                      | Network analyzer<br>(Agilent E5071B)                                                 |
| <b>The whole machine of Passive parameters</b> | 1.Frequency<br>2.Gain<br>3.Radiation Pattern | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Network analyzer<br>(Agilent E5071B)      |
| <b>The whole machine of Active parameters</b>  | 1.TRP<br>2.TIS                               | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Comprehensive test instrument<br>(CMW500) |



#### 4、Antenna Network Subgraph (Antenna S11)

| Frequency(MHz) | Return Loss(dB) | VSWR |
|----------------|-----------------|------|
| 2400           | -12.48          | 1.62 |
| 2500           | -13.22          | 1.57 |



\* Voltage Standing Wave Ratio(VSWR)

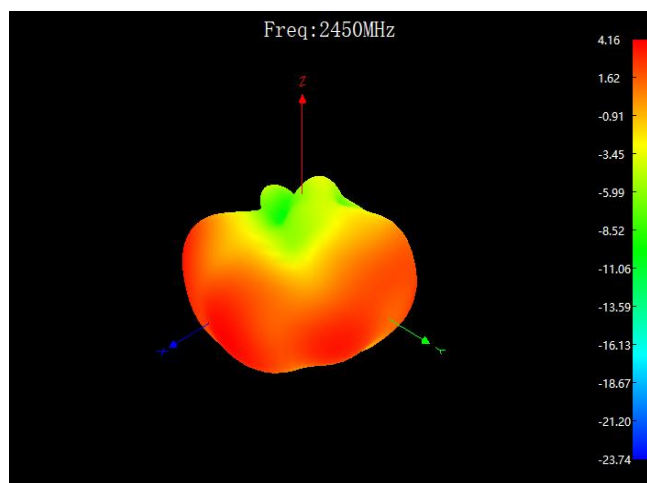
Return Loss(RL)

$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

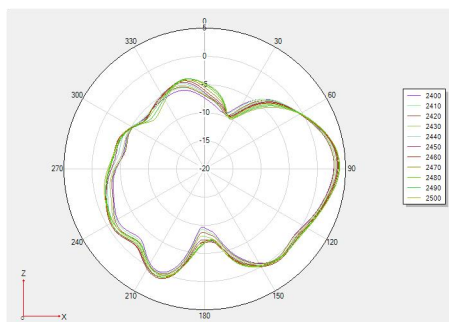
## 5、Antenna Efficiency & Gain

| Frequency/Mhz | Efficiency / dB | Efficiency / % | MaxGain/dBi |
|---------------|-----------------|----------------|-------------|
| 2400          | -1.68           | 67.92          | 3.72        |
| 2410          | -1.61           | 69.02          | 3.73        |
| 2420          | -1.75           | 66.83          | 3.67        |
| 2430          | -1.68           | 67.92          | 3.87        |
| 2440          | -1.47           | 71.29          | 4.09        |
| 2450          | -1.47           | 71.29          | 4.16        |
| 2460          | -1.37           | 72.95          | 4.39        |
| 2470          | -1.48           | 71.12          | 4.33        |
| 2480          | -1.44           | 71.78          | 4.56        |
| 2490          | -1.63           | 68.71          | 4.47        |
| 2500          | -1.68           | 67.92          | 3.72        |

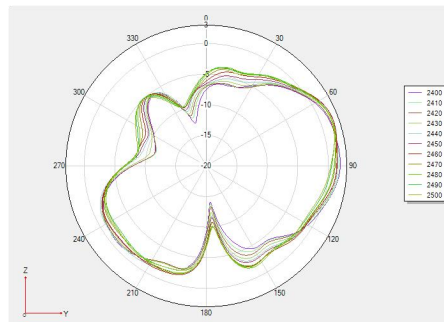
## 6、Antenna 2D/3D Radiation Direction Diagram



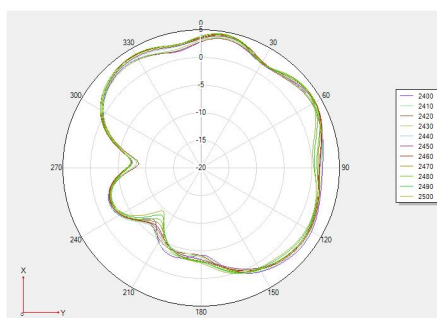
2450MHZ



Phi 0 2D



Phi 90 2D



Theta 90 2D