



## APPROVAL SHEET

## 承认书

|                   |                                      |             |
|-------------------|--------------------------------------|-------------|
| CUSTOMER NAME     | poor handwriting                     |             |
| CUSTOMER P/N      |                                      |             |
| PART NAME         | 2.4G Black FPC with built-in antenna |             |
| P/ N              | YJC-6N040-B89                        |             |
| APPROVAL REV.     | A0                                   |             |
| DELIVERY DATE     | November 17, 2025                    |             |
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| Customer Approved |                                      |             |
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## Directory

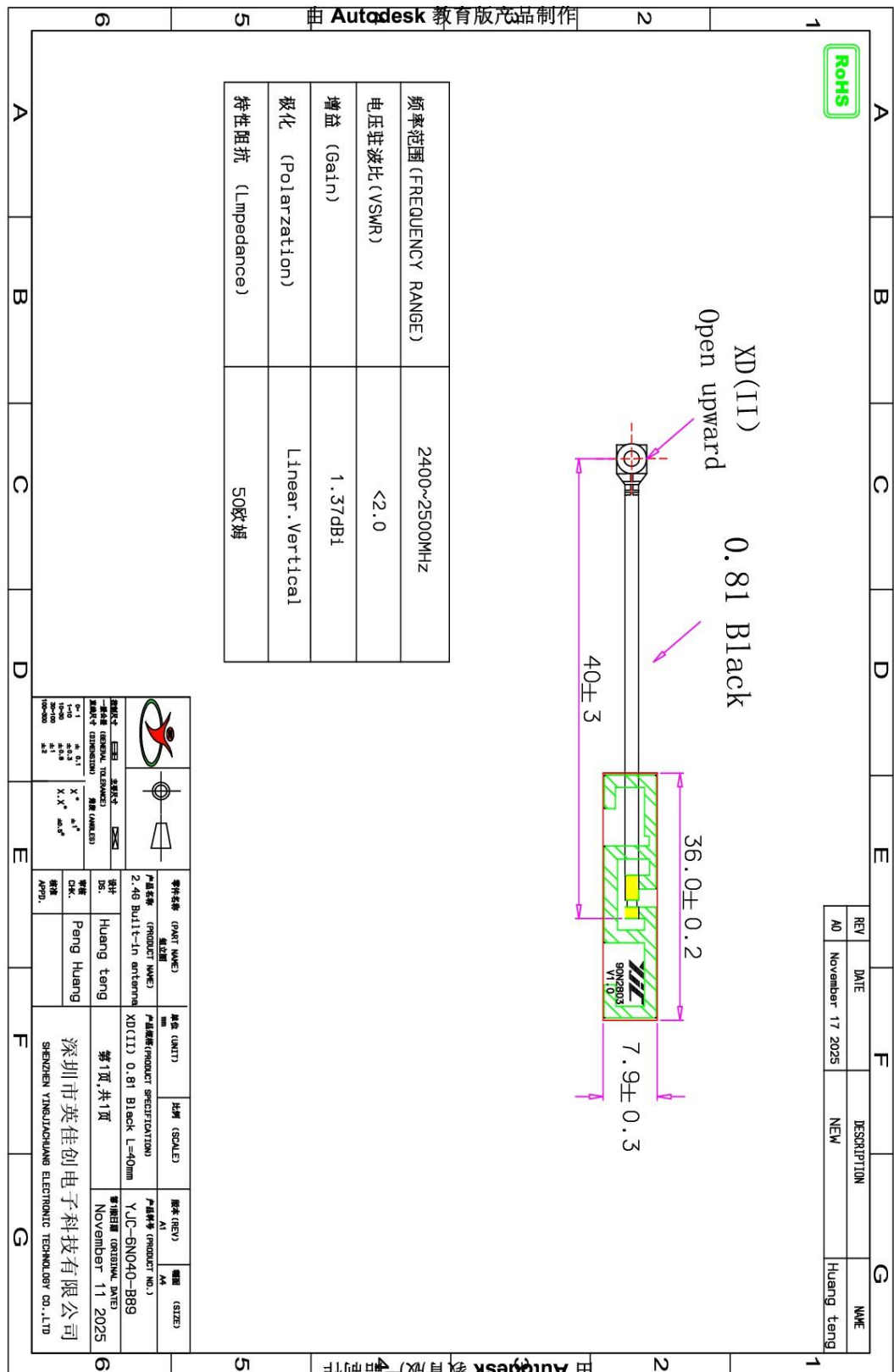
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Revised resume:

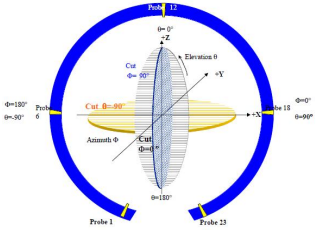
| version | Change contents and reasons | date              | Sell wholesale |
|---------|-----------------------------|-------------------|----------------|
| A0      | NEW                         | November 17, 2025 |                |
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## Antenna plan:



## Instrumentation:

|                                                                                                                                                                                                                                                                           | Test items                                      | Test equipment                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| S Parameter                                                                                                                                                                                                                                                               | 1. Return Loss<br>2.VSWR                        | Network analyzer<br>(Agilent E5071B)<br>(Calibration date:November10,2025-November 09,2026)                                                |
| Passive test                                                                                                                                                                                                                                                              | 1. Frequency<br>2. Gain<br>3. Radiation Pattern | 1.3Dmicrowave darkroom<br>(5m*4m*4m)<br>2.Network analyzer<br>(Agilent E5071B)<br>(Calibration date:November10,2025-November 09,2026)      |
| Active test                                                                                                                                                                                                                                                               | 1. TRP<br>2. TIS                                | 1.3Dmicrowave darkroom<br>(5m*4m*4m)<br>2.Comprehensive test instrument<br>(CMW500)<br>(Calibration date: November09,2025-November08,2026) |
| Passive is to collect DUT spherical near-field data through multi-probe, and then the direction map of DUT is calculated by the near-far-field conversion formula. Finally, the gain and efficiency are calculated by the directionality coefficient on the direction map |                                                 |                                                                                                                                            |
| Dark room coordinates                                                                                                                                                                                                                                                     |                                                 | test mode                                                                                                                                  |
|                                                                                                                                                                                        |                                                 |                                                        |
| CMW500                                                                                                                                                                                                                                                                    |                                                 | Agilent E5071B                                                                                                                             |
|                                                                                                                                                                                        |                                                 |                                                        |

## Antenna technical parameters and environmental test:

| Electrical technical parameters |                 |                           |           |
|---------------------------------|-----------------|---------------------------|-----------|
| Electrical Specifications       |                 | Mechanical Specifications |           |
| Frequency Range                 | 2400-2500MHz    | Antenna Color             | Black     |
| VSWR                            | <2.0            | Working Temperature       | -20℃~+70℃ |
| Input Impedance                 | 50 Ω            | Working Humidity          | 20%~80%   |
| Direction                       | Omnidirectional | Gain                      | 1.37dBi   |
| Interface form                  | XD-II           | Antenna type              | dipole    |

## A picture of the antenna in action:



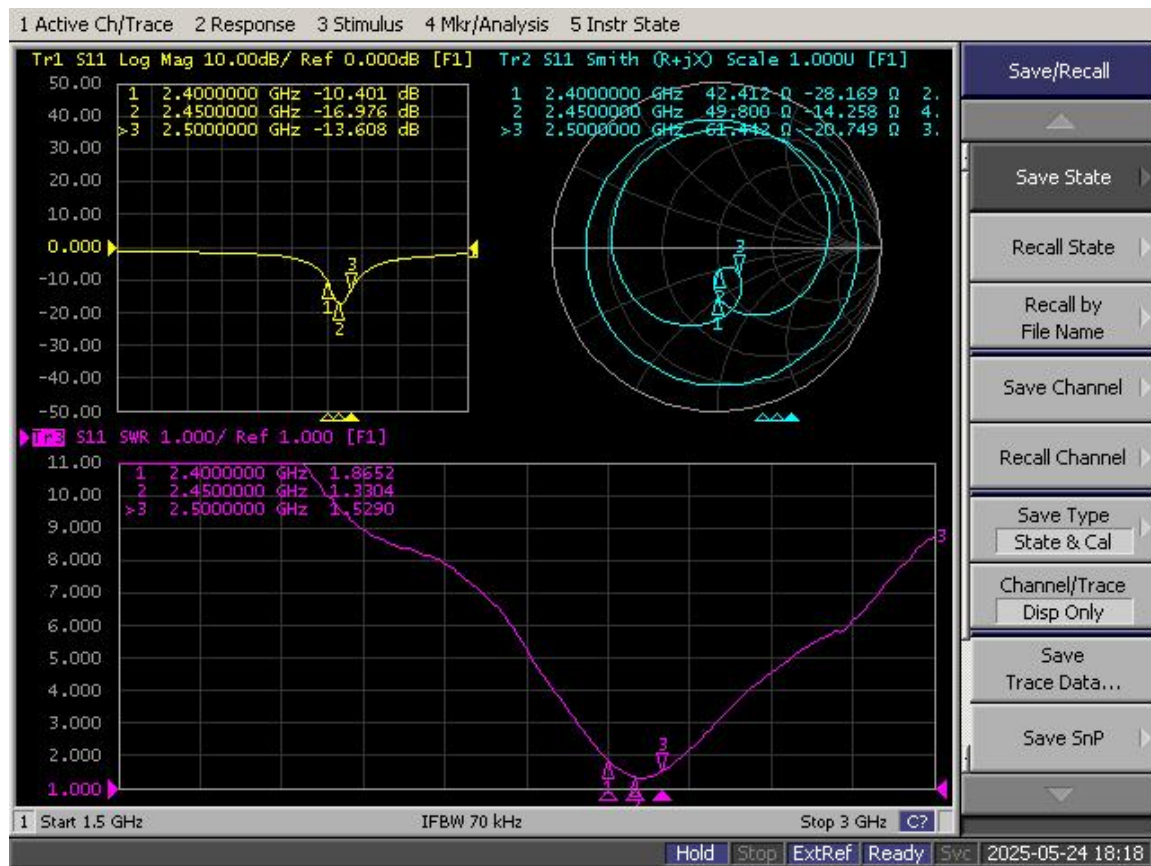


英佳创

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## Antenna performance test diagram



## 2D,3D test data:

| Frequency | Efficiency (%) | Gain. (dBi) |
|-----------|----------------|-------------|
| 2400      | 40.67          | 0.22        |
| 2410      | 42.93          | 0.06        |
| 2420      | 40.46          | -0.27       |
| 2430      | 42.27          | -0.13       |
| 2440      | 43.36          | -0.14       |
| 2450      | 41.78          | -0.34       |
| 2460      | 41.69          | -0.16       |
| 2470      | 39.36          | 0.41        |
| 2480      | 41.02          | 1.05        |
| 2490      | 40.55          | 0.82        |
| 2500      | 40.36          | 1.37        |