

# Shenzhen Xiangboyi Technology Co. Ltd

## Antenna Specification

|                   |                  |
|-------------------|------------------|
| <b>Customer</b>   | BAJIU TECHNOLOGY |
| <b>Project</b>    | S3               |
| <b>Project NO</b> | XBY220426        |

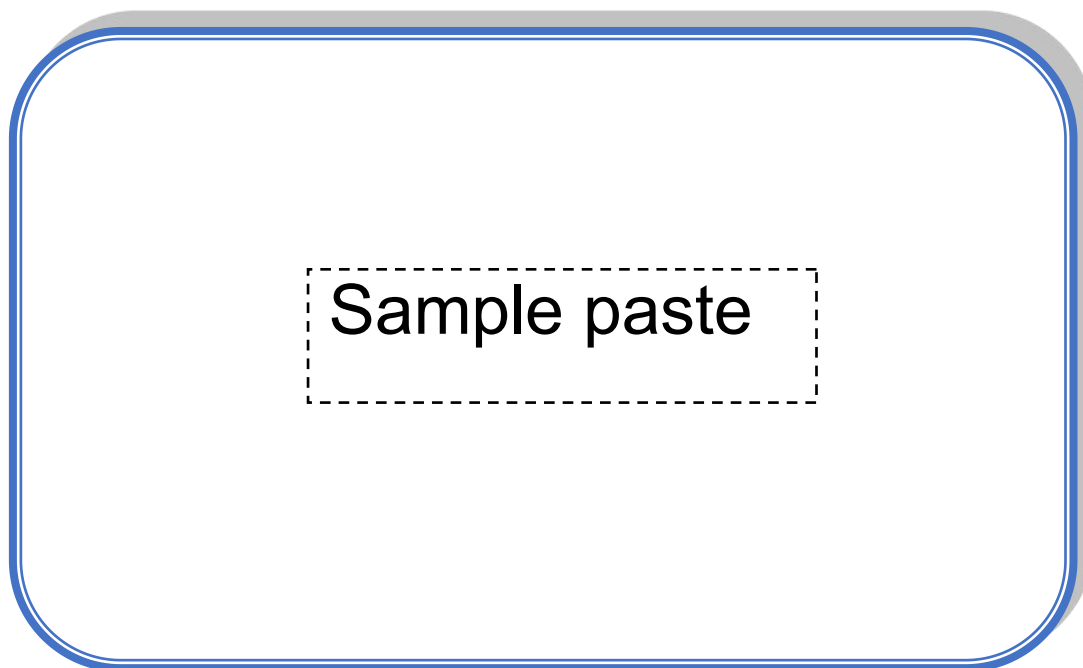
**Shenzhen Xiangboyi Technology Co. Ltd**

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**Production Base:** 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Date : 2023/1/12



| Customer confirmation |    |         |          |
|-----------------------|----|---------|----------|
| Engineer              | PM | Quality | Approval |
|                       |    |         |          |

| Supplier confirmation |    |         |          |
|-----------------------|----|---------|----------|
| ME                    | RF | Examine | Approval |
|                       |    |         |          |

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# Catalogue

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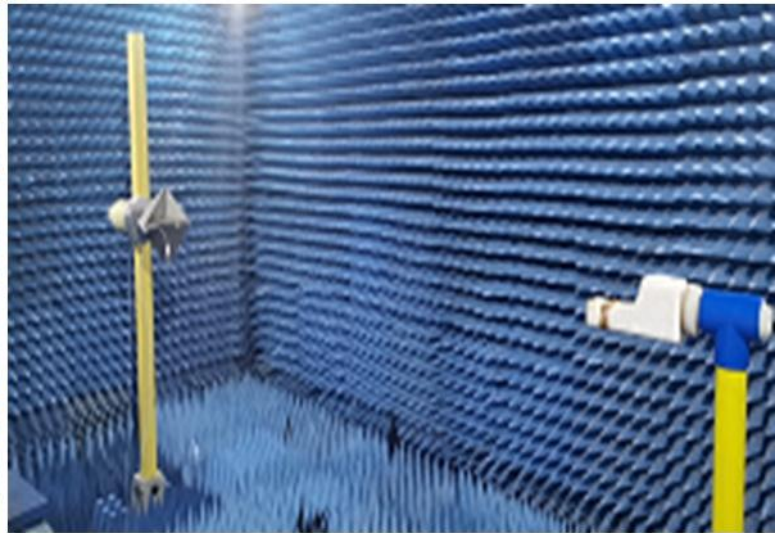
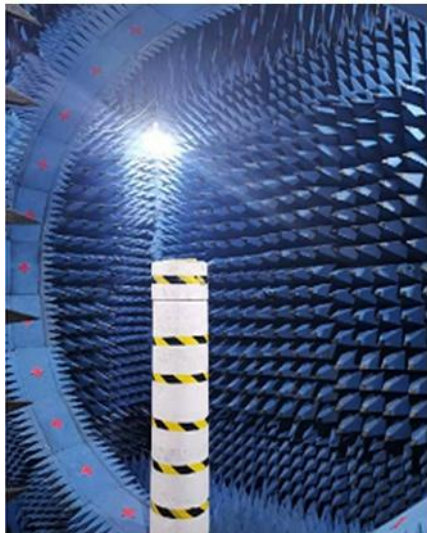
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# 1 Test System and Equipment

|                                | Test items                                        | equipment                                                                  |
|--------------------------------|---------------------------------------------------|----------------------------------------------------------------------------|
| 1 : S parameter                | 1. Return loss<br>2. VSWR                         | Network analyzer:<br>A338/A333/HP8753D                                     |
| 2 : Active test                | 1. Transmitting power<br>2. Receiving sensitivity | Comprehensive test instrument:<br>Agilent 8960/ CMW500                     |
| 3 : Radiation mode<br>and gain | 1. Radiation mode<br>2. Gain                      | 1. Shielding room:<br>7x4x3 m (ETS-3D)<br>2. Network analyzer:<br>HP 8753D |



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## 2 Product Description

| Technical requirements | Technical index                | Remarks          |
|------------------------|--------------------------------|------------------|
| Band                   | WIFI:2.4G                      |                  |
| Range Of Frequency     | 2400-2500Mhz ;                 |                  |
| VSWR                   | 2400-2500Mhz<2.0               | Center Frequency |
| Impedance              | 50Ω                            |                  |
| Polarization           | Linear polarization            |                  |
| operating temperature  | -32℃ / +55℃                    |                  |
| storage temperature    | -55℃ / +85℃                    |                  |
| Salt Fog               | 24h(24h alternating wet & dry) |                  |
| RoHS Compliant         | yes                            |                  |

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### 3 Device Description

**The whole machine photo**



**Antenna photo**



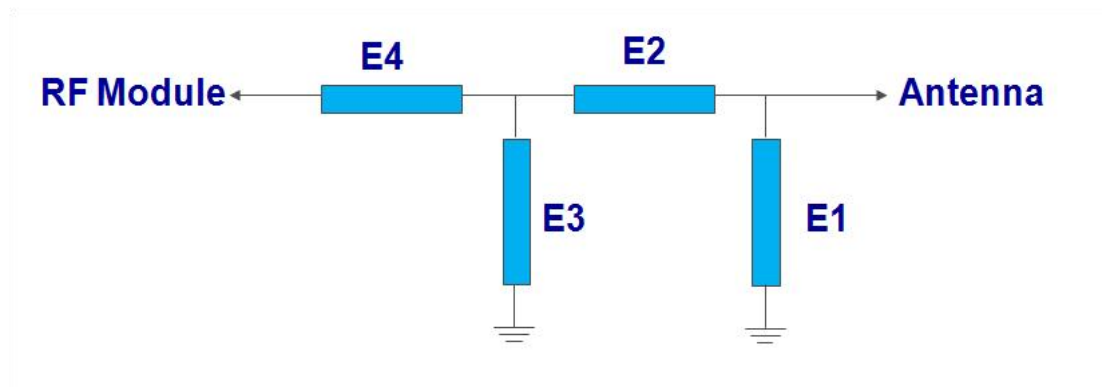
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## 4 Matching Circuits



| Element  | Value | Vender |
|----------|-------|--------|
| E1(0402) | NA    |        |
| E2(0402) | 0Ω    |        |
| E3(0402) | NA    |        |
| E4(0402) | 0Ω    |        |

Original match unchanged.

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## 5 Test Data

| Passive Test For 2.4G |             |               |
|-----------------------|-------------|---------------|
| Freq<br>(MHz)         | Effi<br>(%) | Gain<br>(dBi) |
| 2400                  | 36.56       | 1.23          |
| 2450                  | 41.23       | 1.62          |
| 2500                  | 37.51       | 1.14          |

WiF idirectional diagram; directivity diagram

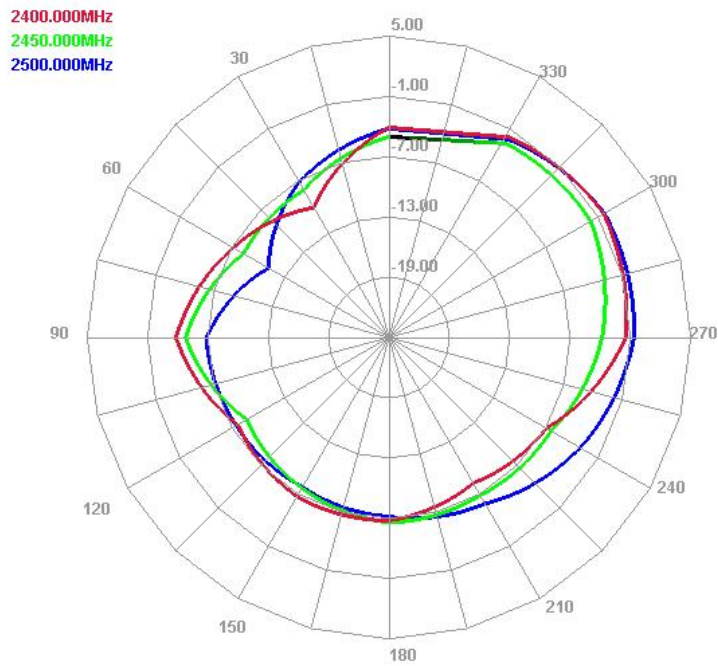
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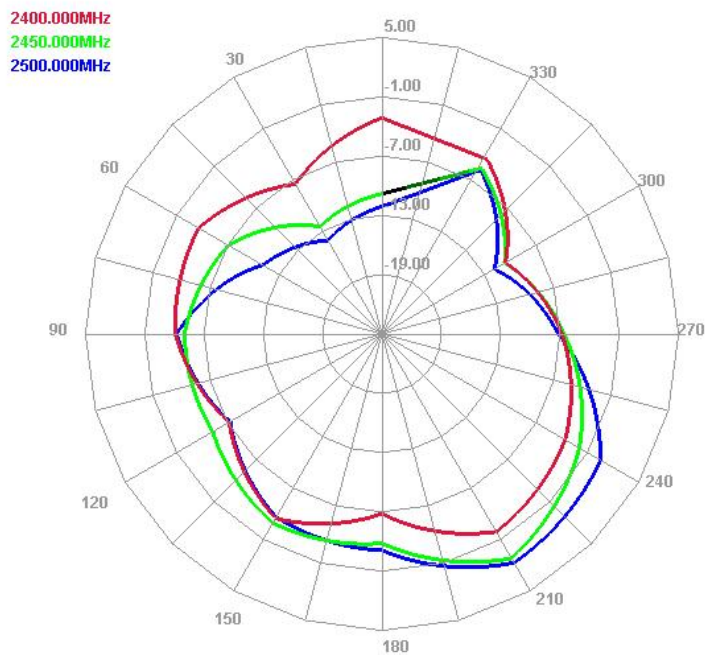
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### Horizontal



### E1 Face



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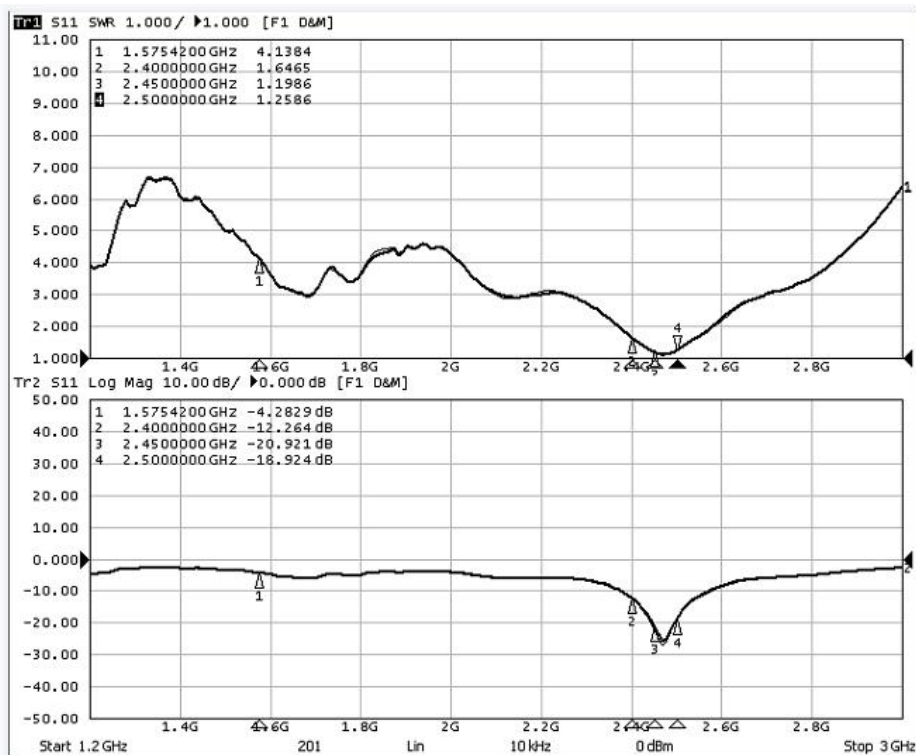
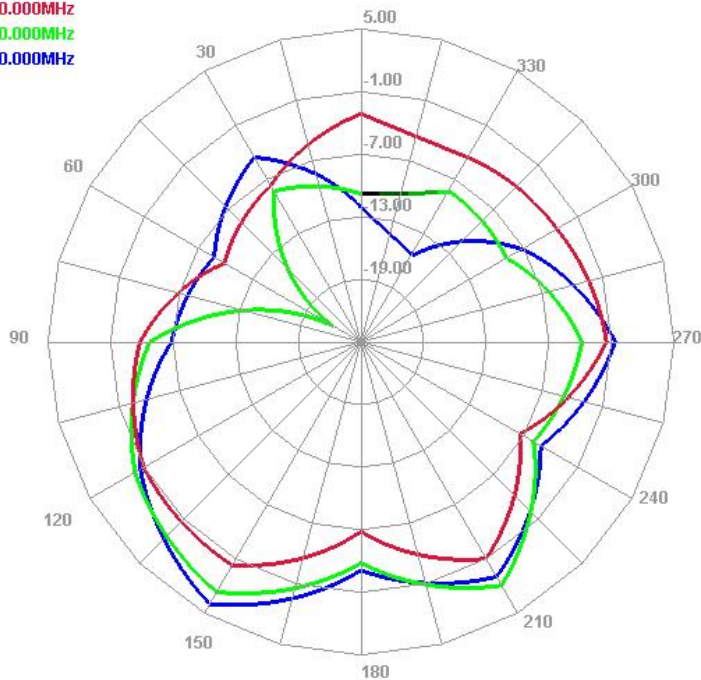
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## E2 Face

2400.000MHz  
2450.000MHz  
2500.000MHz



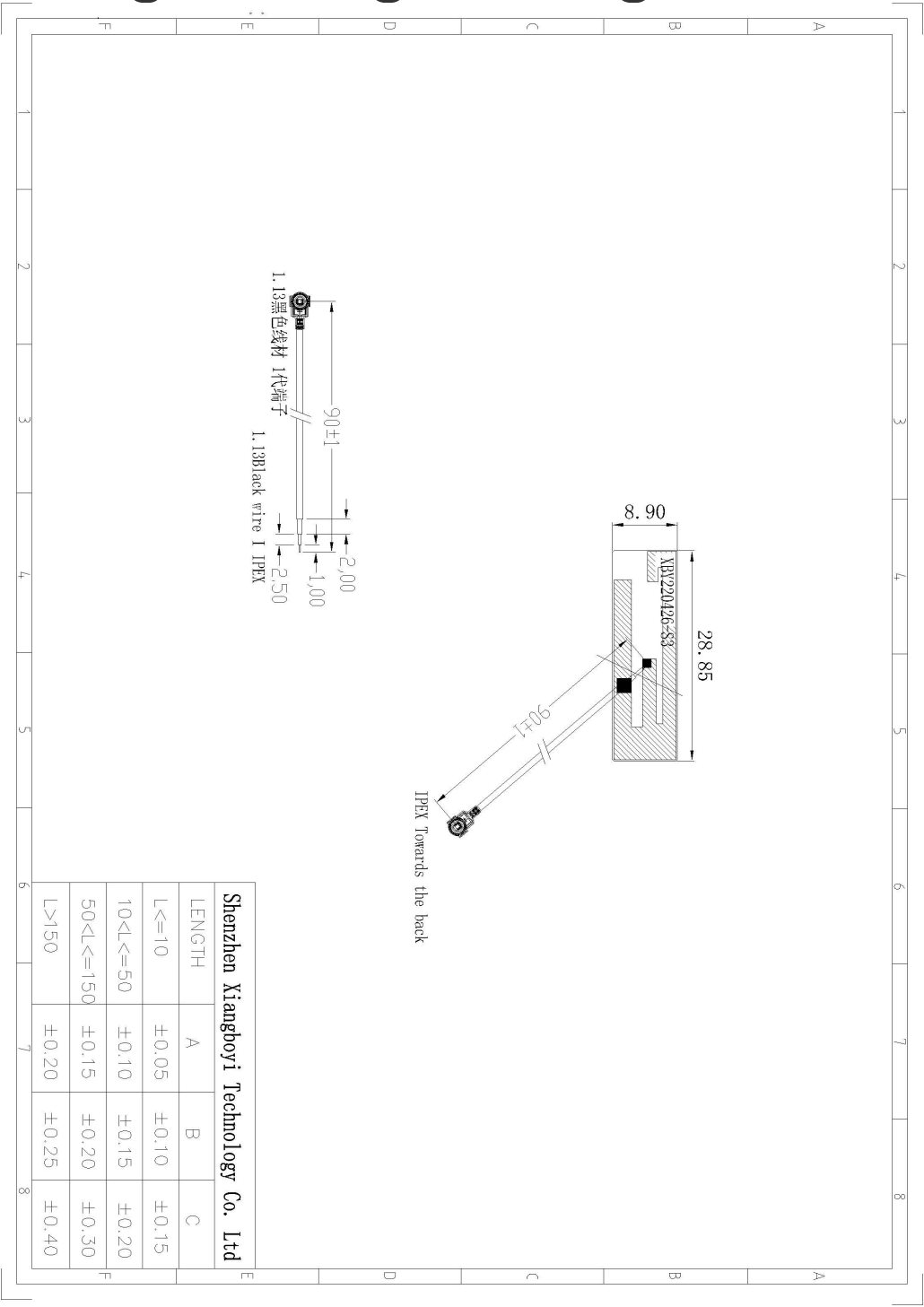
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# 6 Engineering Drawing



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## 7. Physical Assembly Picture



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