

## Antenna Sample Datasheet

|                    |                                                   |
|--------------------|---------------------------------------------------|
| customer:          | Dongguan Siyoto electronic<br>technology Co., LTD |
| entry name:        | SMBT-1658                                         |
| Material category: | BT antenna                                        |
| Antenna Type       | Monopole                                          |
| Antenna Material   | FPC                                               |
| edition:           | A0                                                |
| Date:              | 2024. 11. 14                                      |

Antenna manufacturer: Hongji Wireless Communication (Shenzhen)  
Co., LTD

<http://www.honant.com.cn>

Address: 12 / F, West Block B, Building 8, Huaqiang Creative Industry  
Park, Sightseeing Road, Guangming District, Shenzhen

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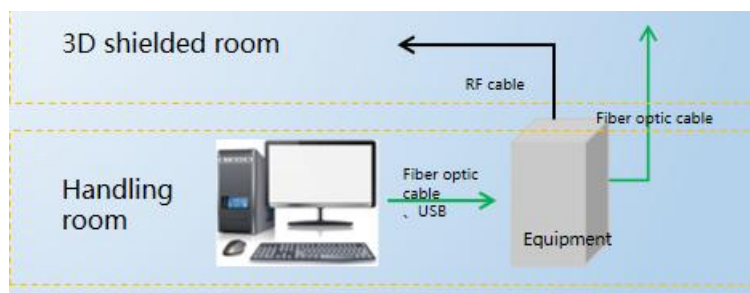
|                                |   |
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## 1: Antenna test equipment

List of meters: Agilent 5071B;

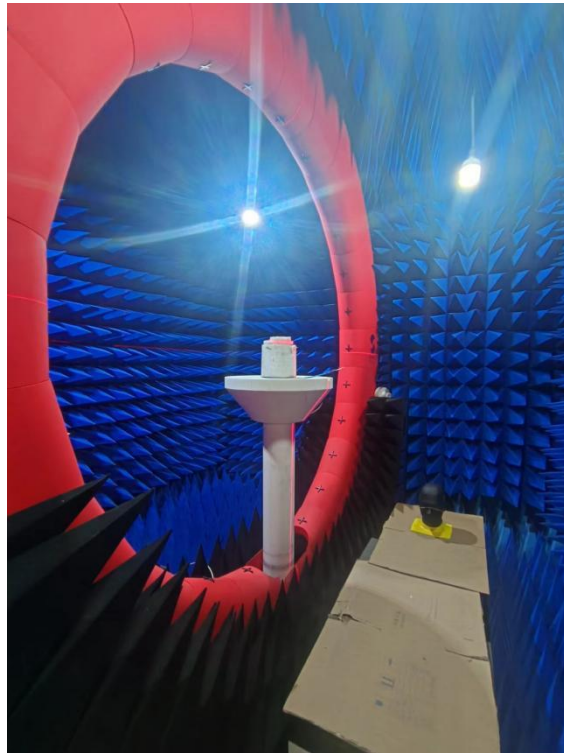


### 1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

## 1.2 Pictures of the ETS anechoic chamber



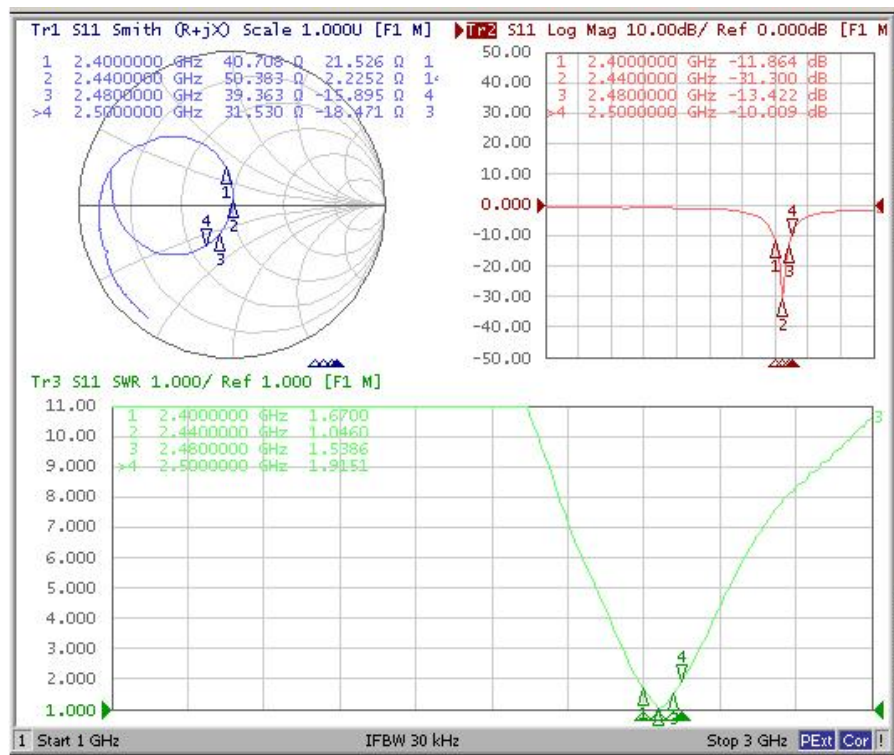
Inside the ETS anechoic chamber



Test Machine

## 2: Passive test report

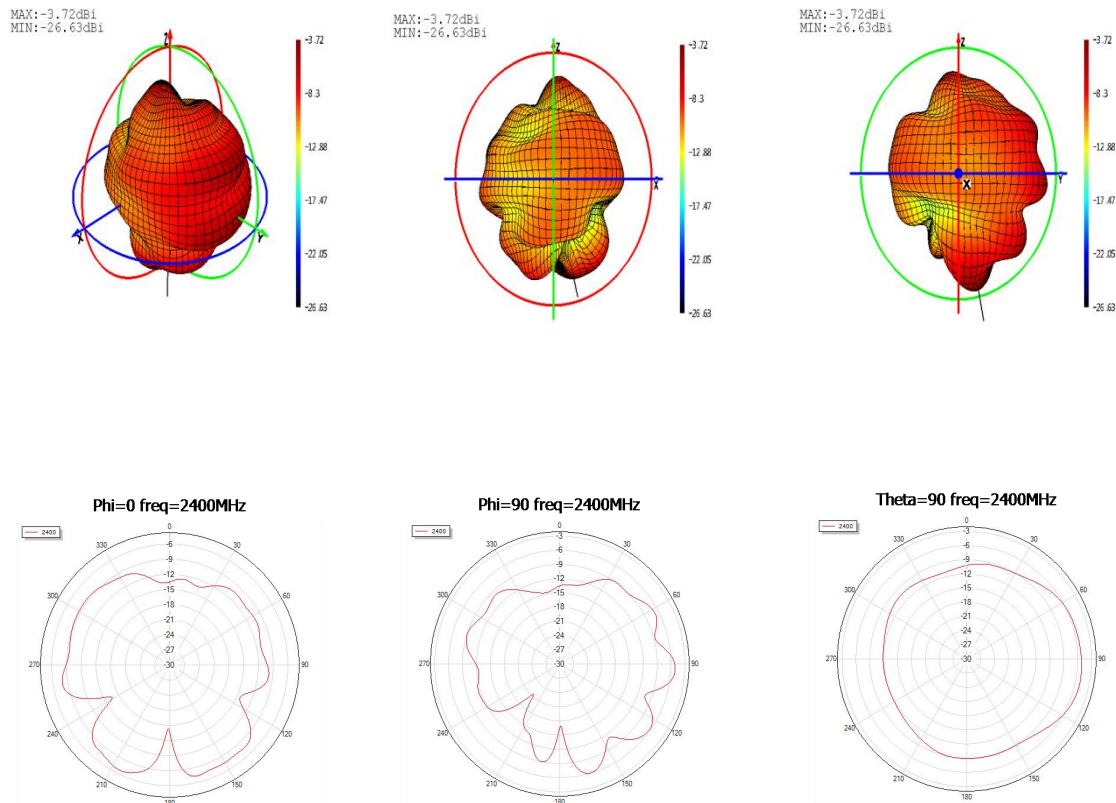
### 2.1: BT antenna S11 parameters



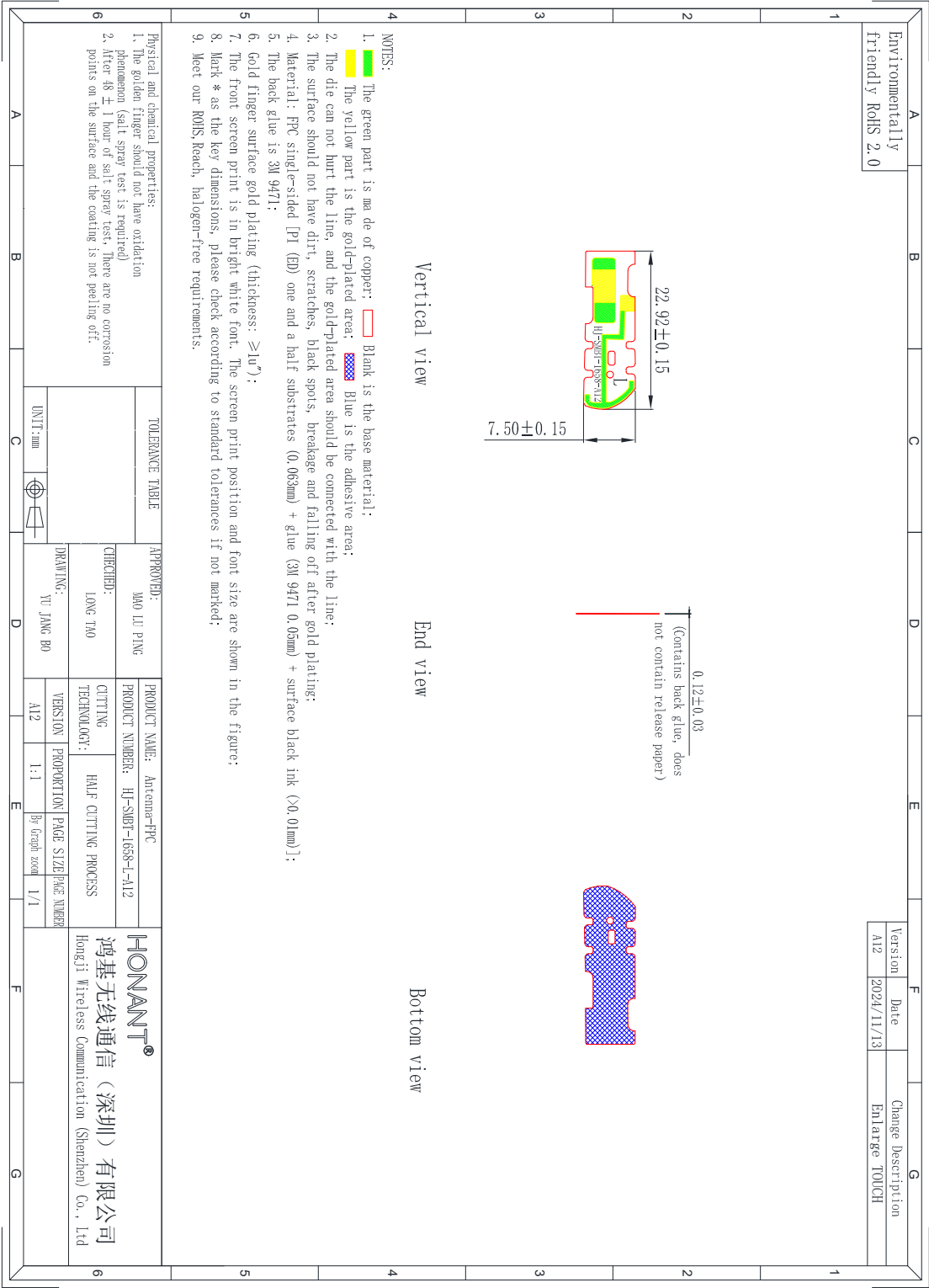
### 2.2: Passive efficiency of antenna

| Freq(MHz) | Gain(dBi) | Efficiency(%) |
|-----------|-----------|---------------|
| 2400      | -3.72     | 11.58         |
| 2410      | -3.6      | 12.34         |
| 2420      | -3.57     | 12.68         |
| 2430      | -3.66     | 13.05         |
| 2440      | -3.59     | 14.07         |
| 2450      | -3.51     | 14.69         |
| 2460      | -3.25     | 14.95         |
| 2470      | -3.01     | 14.7          |
| 2480      | -2.8      | 13.66         |

## 2.3: Passive pattern of BT antenna



3: 3.1 Structural drawing-Left





3: 3.2 Structural drawing-Right

