

**Product specification**

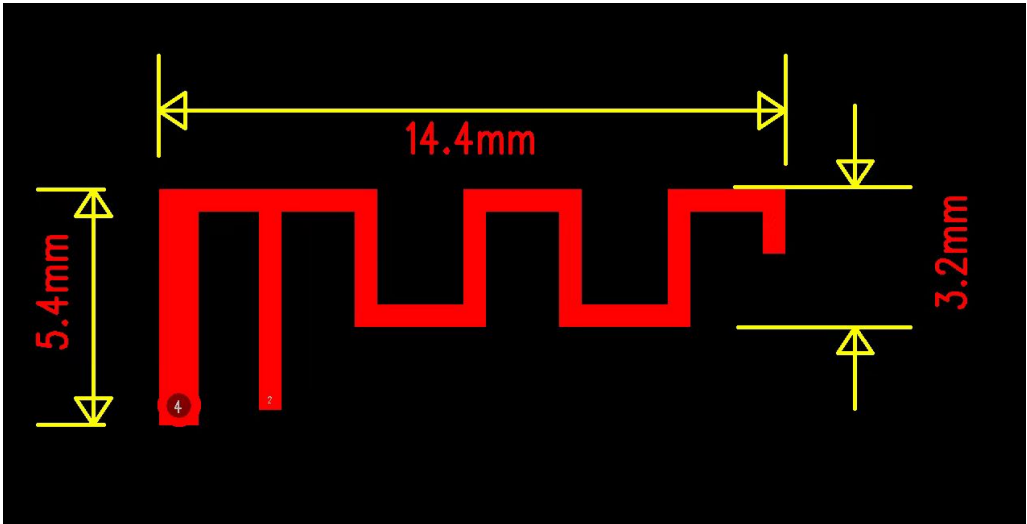
Manufacturer: Foshan Shunke Electronics Co., LTD  
Address: No. 15-6, Chuangye Road, Sanhongqi community, Beijiao Town, Foshan

**Quick Reference Data**

|                            |                                           |  |
|----------------------------|-------------------------------------------|--|
|                            | Antenna module on the system board        |  |
| Model Name                 | Inverted F-type onboard antenna (倒F型板载天线) |  |
| Antenna type               | PCB                                       |  |
| Frequency                  | 2.402--2480MHZ                            |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)          |  |
| Tot. Rad.Pwr. (dBm)        | -2.3 (Input pwr?loss pwr)                 |  |
| Peak EIRP (dBm)            | 1.3                                       |  |
| Directivity (dBi)          | 1 (all direction antenna)                 |  |
| Efficiency (dB)            | -2.3 (58.5%)                              |  |
| Gain(dBi)                  | 1.7 (Peak Gain XZ-plane)                  |  |
| Maximum Power (dBm)        | 1.3 (XY-plane)                            |  |
| Minimum Power (dBm)        | -4 (XY-plane)                             |  |
| Avg. Power (dBm)           | -0.5 (XY-plane)                           |  |
| Max/Min Ratio (dB)         | 5.3 (XY-plane)                            |  |
| Max/Avg Ratio (dB)         | 1.8 (XY-plane)                            |  |
| Min/Avg Ratio (dB)         | -3.5 (XY-plane)                           |  |
| Average Gain (dB)          | -0.5 (Avg Gain XY-plane)                  |  |

All the technical data and information contained herein are subject to change without prior notice

**Antenna Layout & module on the system board**



**Antenna Gain**

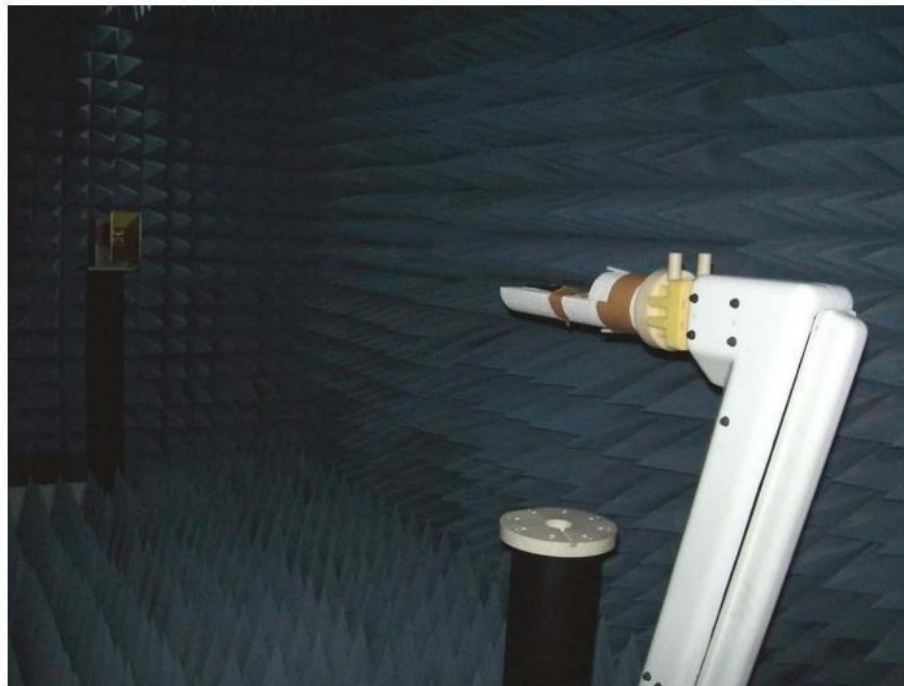
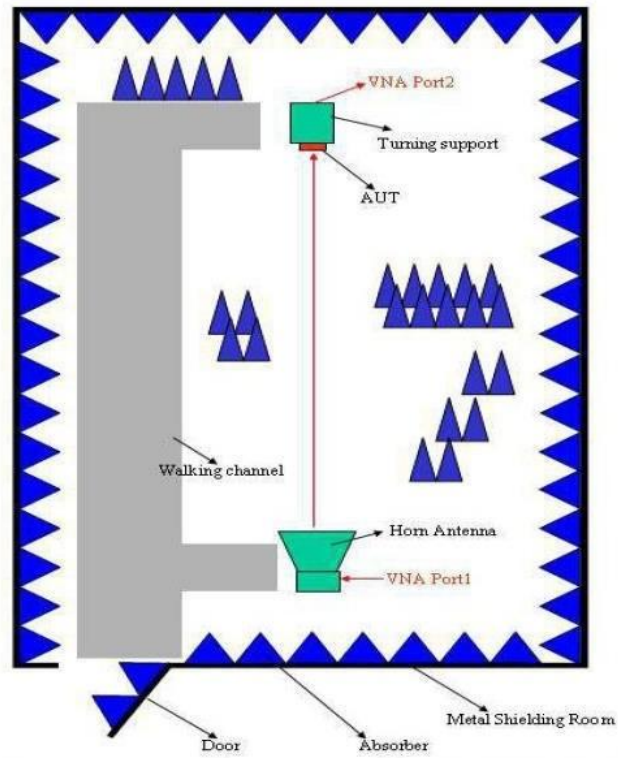
Gain Table

| Unit in dBi @2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|----------------------|----------|------|----------|------|----------|------|------------|
|                      | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board         | 1.3      | -0.5 | 1.7      | -3.8 | 1.1      | -3.0 | 58.5%      |

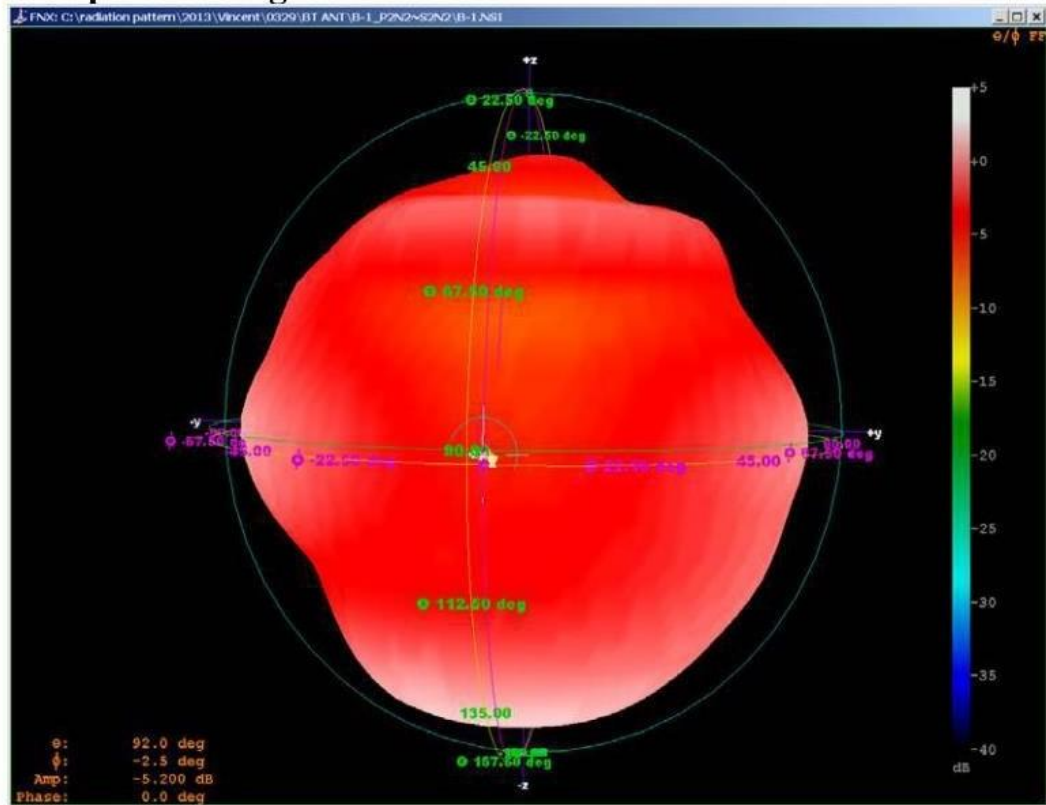
## Return Loss



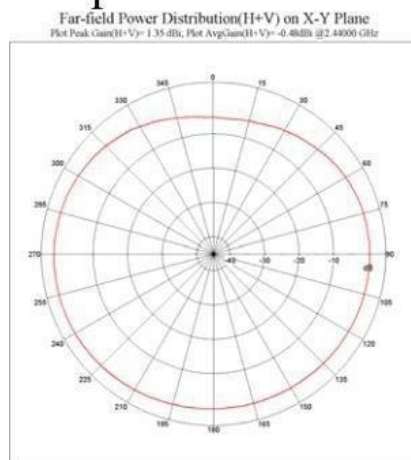
## The Environment of Antenna Radiation Pattern



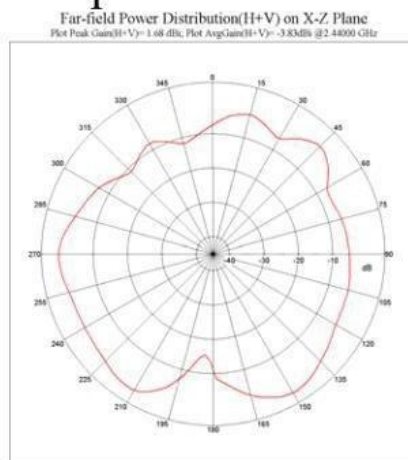
## 3D radiation pattern diagram



## XY-plane



## XZ-plane



## YZ-plane

