

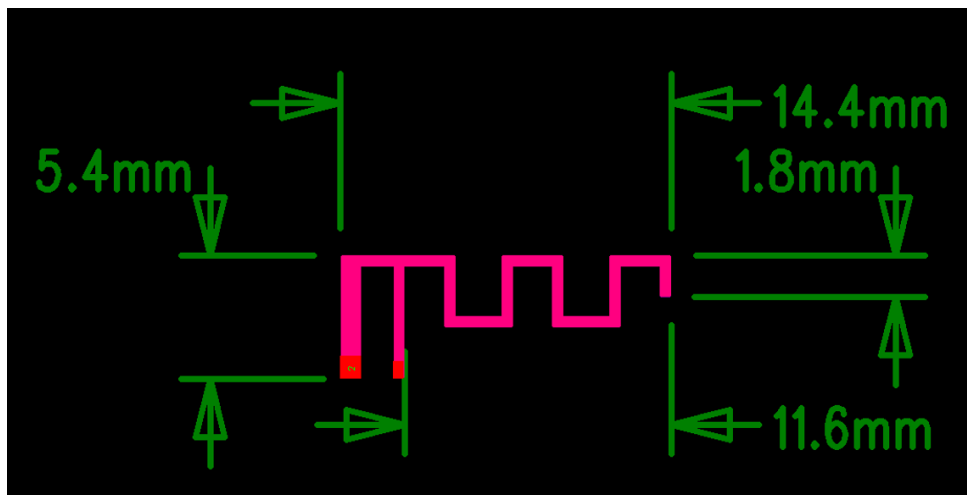
## Product specification

### Quick Reference Data

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Frequenc Range             | 2400 ~ 2500MHz                     |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)   |  |
| Tot. Rad. Pwr. (dBm)       | -1.68 (Input pwr – loss pwr)       |  |
| Peak EIRP(dBm)             | 1.68                               |  |
| Directivity (dBi)          | 1 (all direction antenna)          |  |
| Efficiency (dB)            | 6 0.2 %                            |  |
| Gain (dBi)                 | 1.68 (Avg Gain XY-plane)           |  |
| Maximum Power (dBm)        | 1.68 (XY-plane)                    |  |
| Minimum Power (dBm)        | -4(XY-plane)                       |  |
| Avg. Power (dBm)           | -0.5(XY-plane)                     |  |
| Input Impedence(ohm)       | 50                                 |  |
| Polarization Type          | V ertical & H orizontal            |  |
| V . S .W . R               | < 1.4                              |  |

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

### Antenna Layout & module on the system board

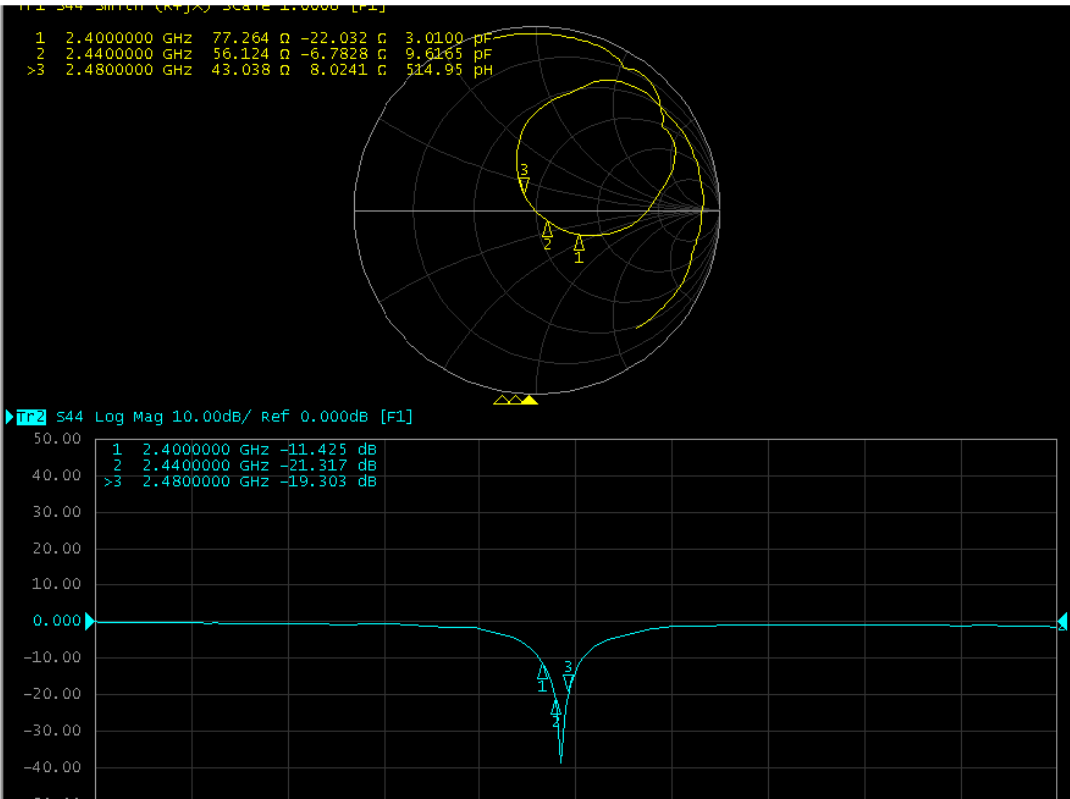


### Antenna Gain

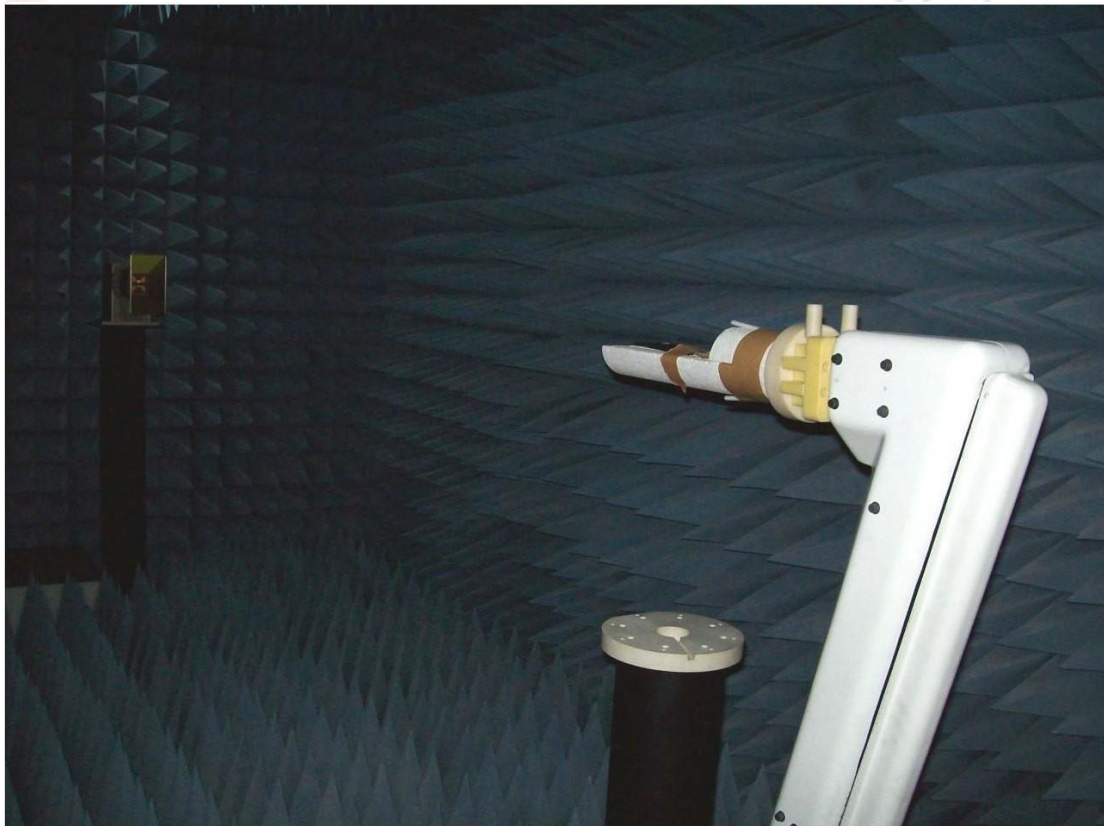
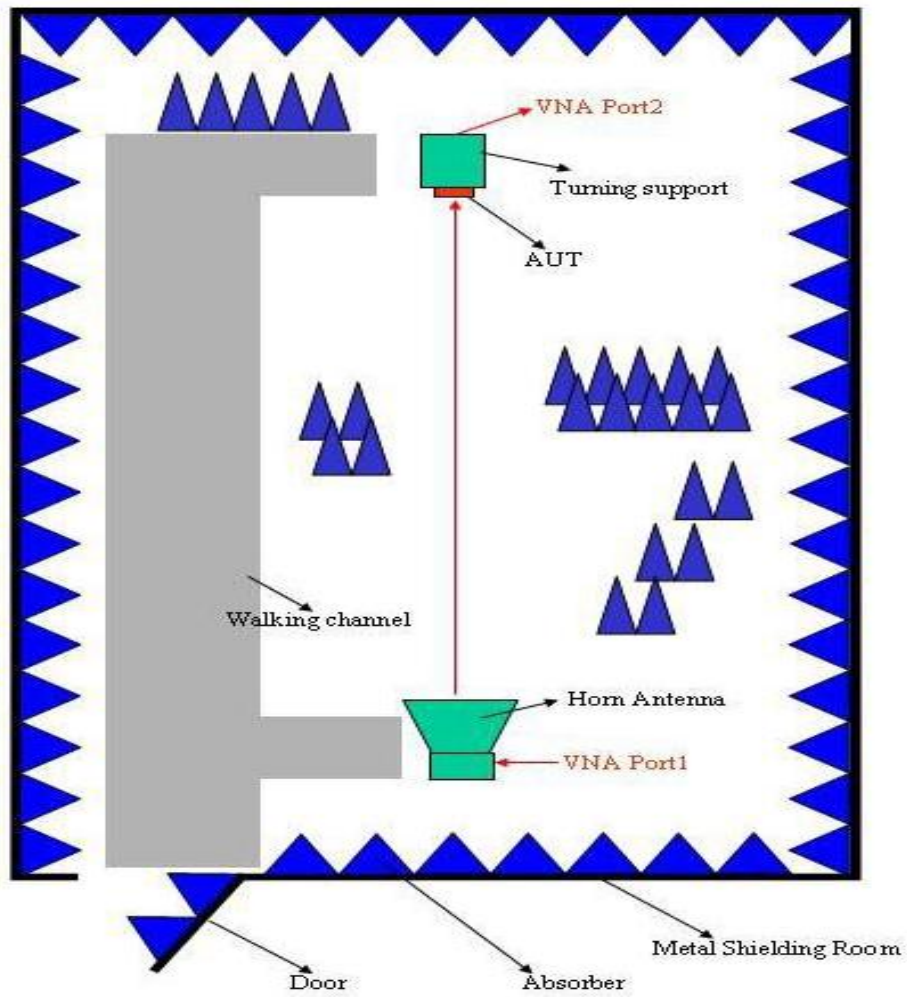
Gain Table

| Unit in dBi @2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|----------------------|----------|------|----------|------|----------|------|------------|
|                      | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board         | 1.35     | -0.5 | 1.68     | -3.6 | 1.11     | -3.0 | 6 0.2 %    |

Return Loss



## The Environment of Antenna Radiation Pattern



**Far-field Power Distribution(H+V) on X-Z Plane**  
Plot Peak Gain(H+V)> 1.08 dBi, Plot AvgGain(H+V)> -3.83dBi @2.48500 GHz

Far-field Power Distribution(H+V) on Y-Z Plane  
 Plot Peak Gain(H+V)= 1.11 dB, Plot AvgGain(H+V)= -2.99dB @2.4600 GHz

Antenna Manufacturer : DongGuang ShanhaiZhilian Electronic Technology Co., Ltd 2nd Floor, No.13, Qingtang Road, Yougangpu, Fenggang town, Dongguan city, Guangdong Province