

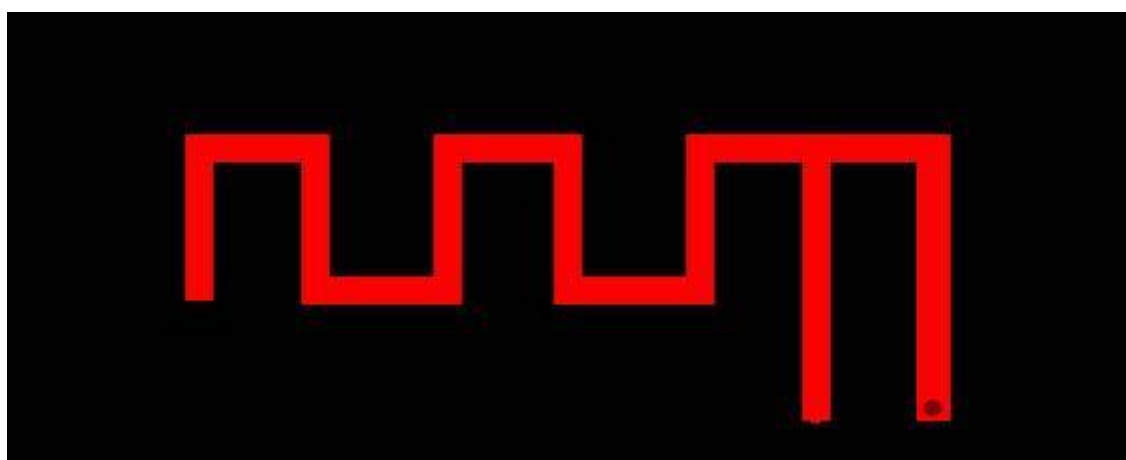
## Product specification

### Quick Reference Date

|                            |   |      |  |
|----------------------------|---|------|--|
|                            | 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)       | -1.2 (Input pwr – loss pwr)   |      |  |
| Peak EIRP(dBm)             | 1.2   |      |  |
| Directivity (dBi)          | 1 (all direction antenna)   |      |  |
| Efficiency (dB)            | 6   | 0.2% |  |
| Gain (dBi)                 | 1.2 (Peak Gain XY-plane)  |      |  |
| Maximum Power (dBm)        | 1.7 (XY-plane)  |      |  |
| Minimum Power (dBm)        | -4(XY-plane)  |      |  |
| Avg. Power (dBm)           | -0.5(XY-plane)  |      |  |
| Input Impedence(ohm)       | 50  |      |  |
| Polarization Type          | V ertical & Horizontal  |      |  |
| V.S.W .R                   | <   | 1.4  |  |
| Manufacturer's name        | Shenzhen Yolanda Technology Co., Ltd  |      |  |
| Address                    | Room 201, Jinfulai Building, No.49-1, Dabao Road, Dalang Area, Xinan Street, Baoan, Shenzhen, China |      |  |

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

### Antenna Layout & module on the system board



### Antenna Gain

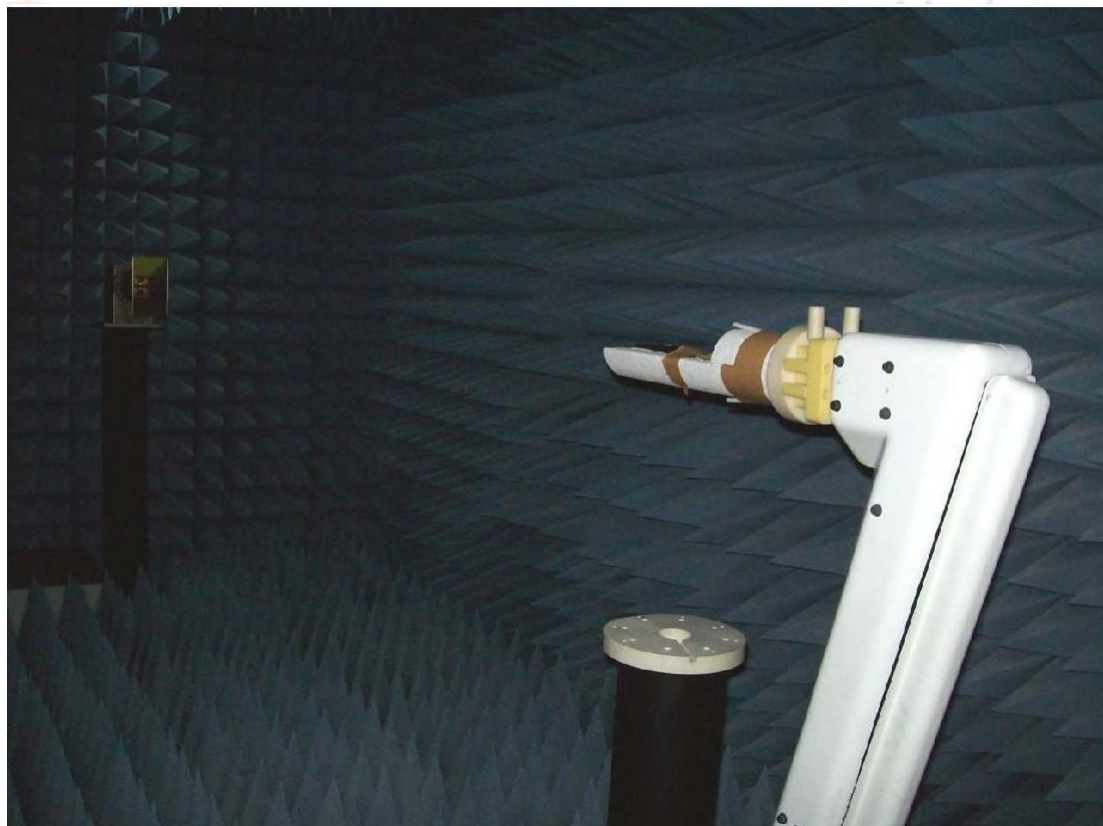
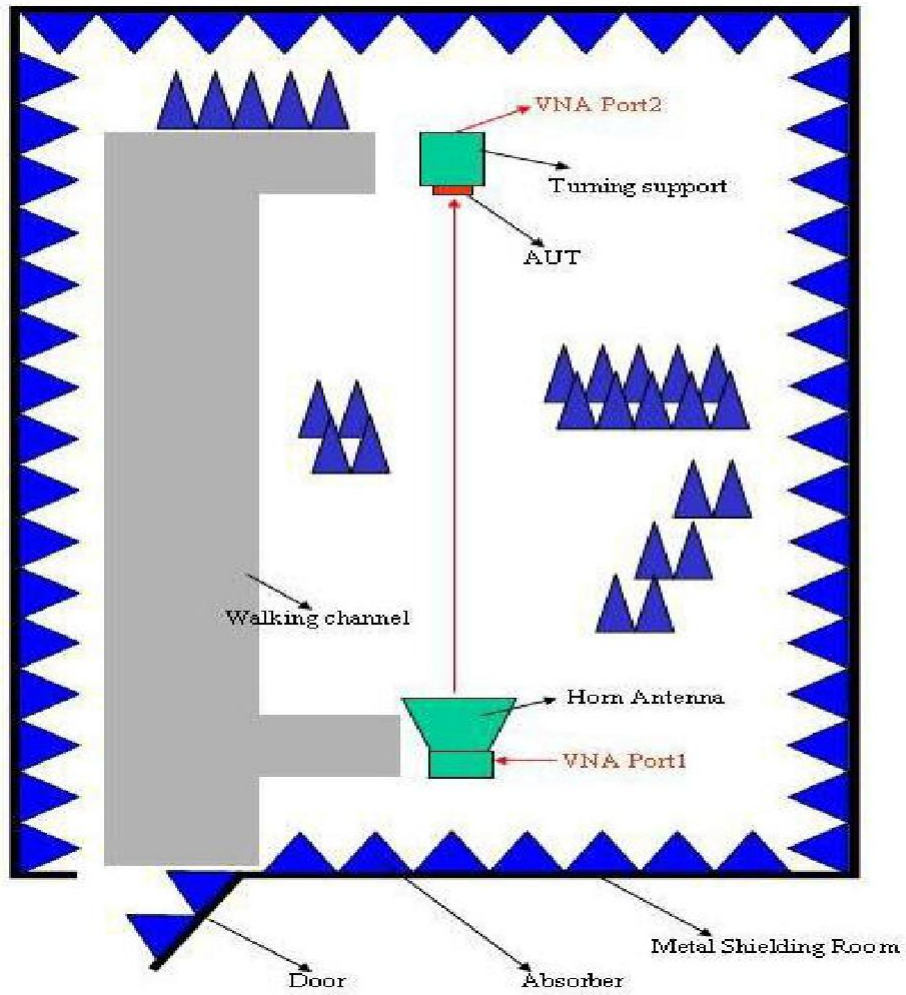
Gain Table

| Unit in dBi @2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|----------------------|----------|------|----------|------|----------|------|------------|
|                      | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board         | 1.2      | -0.5 | 1.2      | -3.6 | 1.1      | -3.0 | 6 0.2%     |

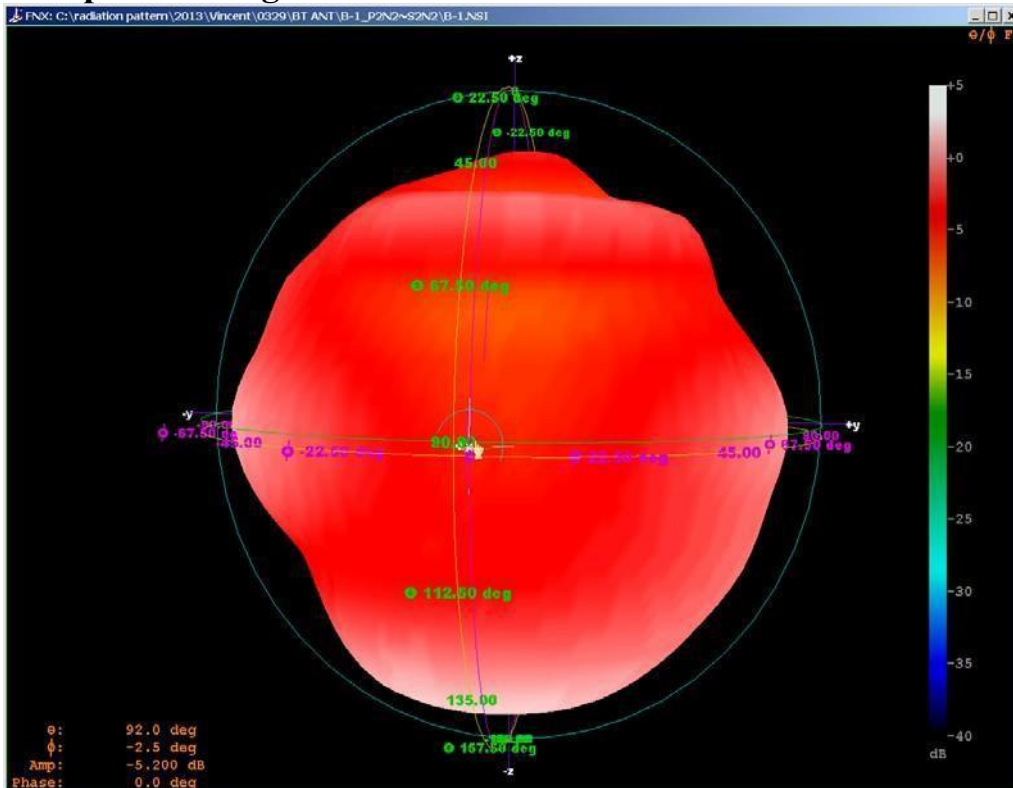
# Return Loss



# The Environment of Antenna Radiation Pattern

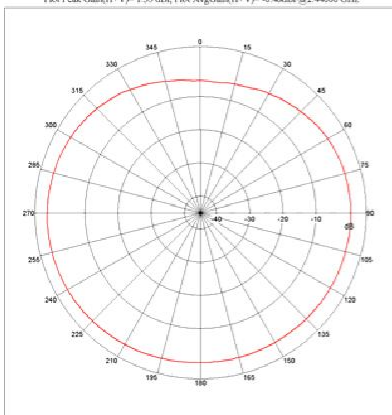


# 3D radiation pattern diagram



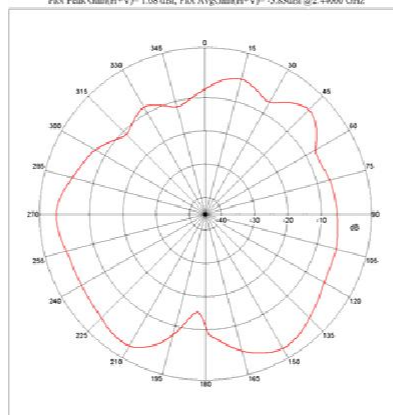
## XY-plane

Far-field Power Distribution(H+V) on X-Y Plane  
Plot Peak Gain(H+V)= 1.35 dB; Plot AvgGain(H+V)= -0.48dB @2.4000 GHz



## XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane  
Plot Peak Gain(H+V)= 1.08 dB; Plot AvgGain(H+V)= -3.63dB @2.4000 GHz



## YZ-plane

Far-field Power Distribution(H+V) on Y-Z Plane  
Plot Peak Gain(H+V)= 1.11 dB; Plot AvgGain(H+V)= -2.99dB @2.4000 GHz

