

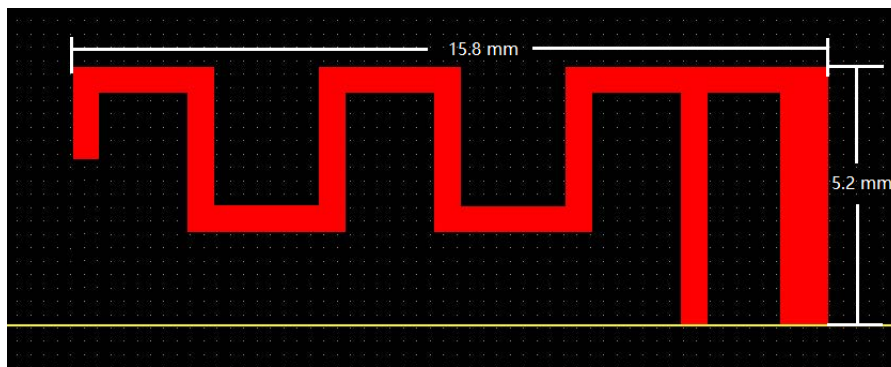
## Product specification

### Quick Reference Date

|                            |  |
|----------------------------|--|
|                            | Antenna module on the system board             |
| Frequenc Range             | 2400 ~ 2500GHz                                 |
| 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)            | 60.2 %   |
| Gain (dBi)                 | 1.9 (Peak Gain XZ-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          | Vertical & Horizontal                          |
| V. S. W. R                 | < 1.4  |
| Manufacturer               | Shenzhen Monster Creative Technology Co., Ltd. |

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

### Antenna Layout & module on the system board

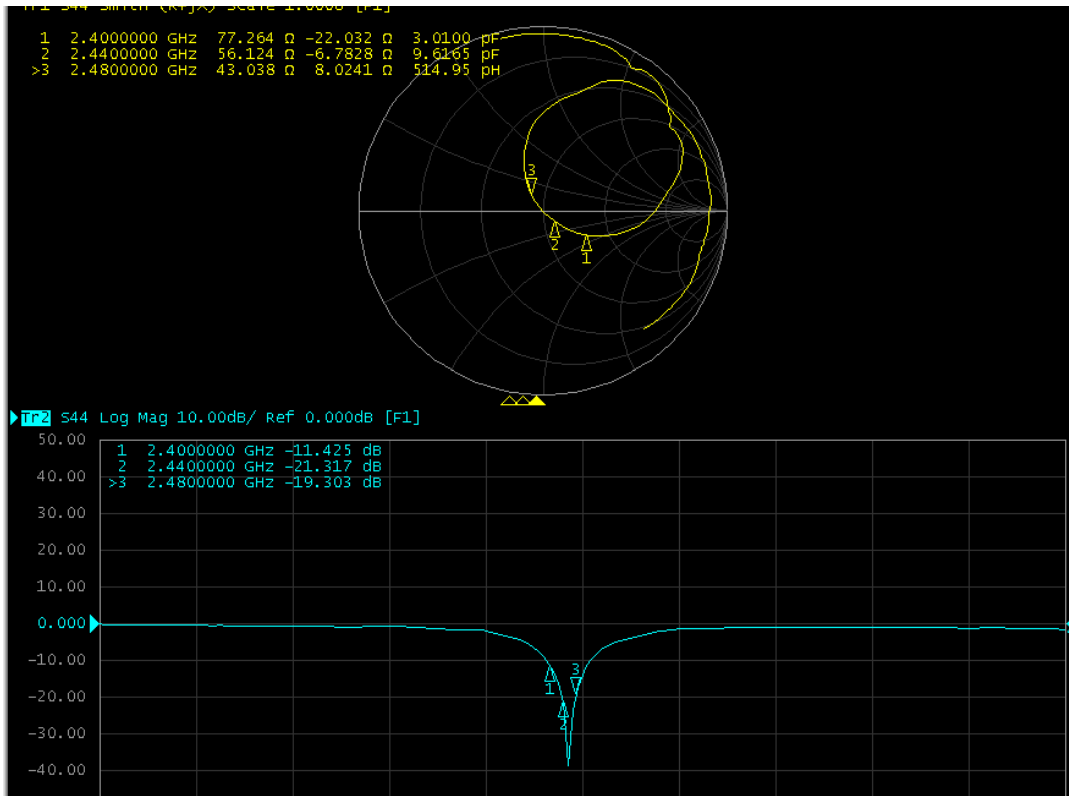


### Antenna Gain

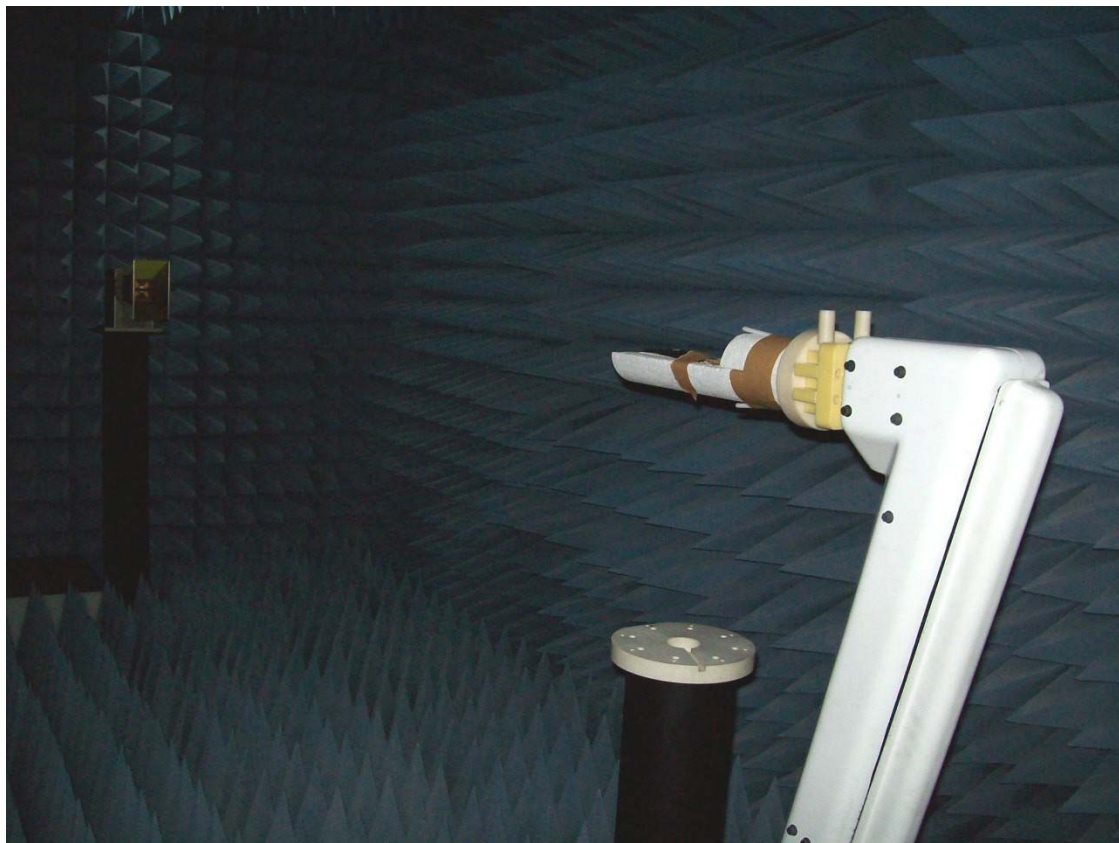
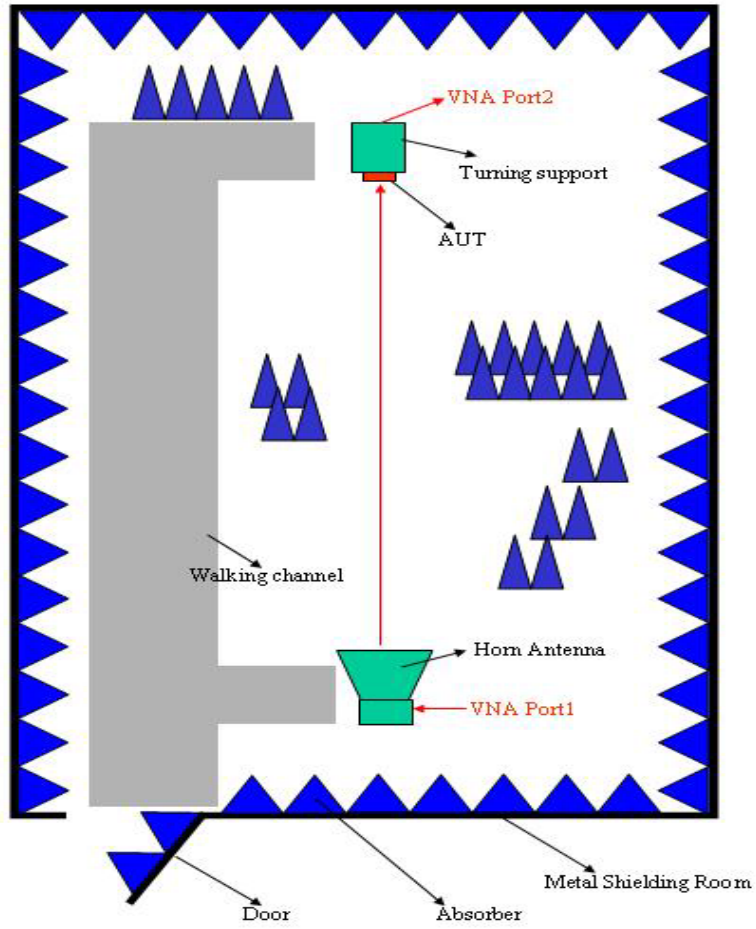
Gain Table

| Unit in dBi @2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|----------------------|----------|------|----------|------|----------|------|------------|
|                      | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board         | 1.2      | -0.5 | 1.9      | -3.6 | 1.1      | -3.0 | 60.2 %     |

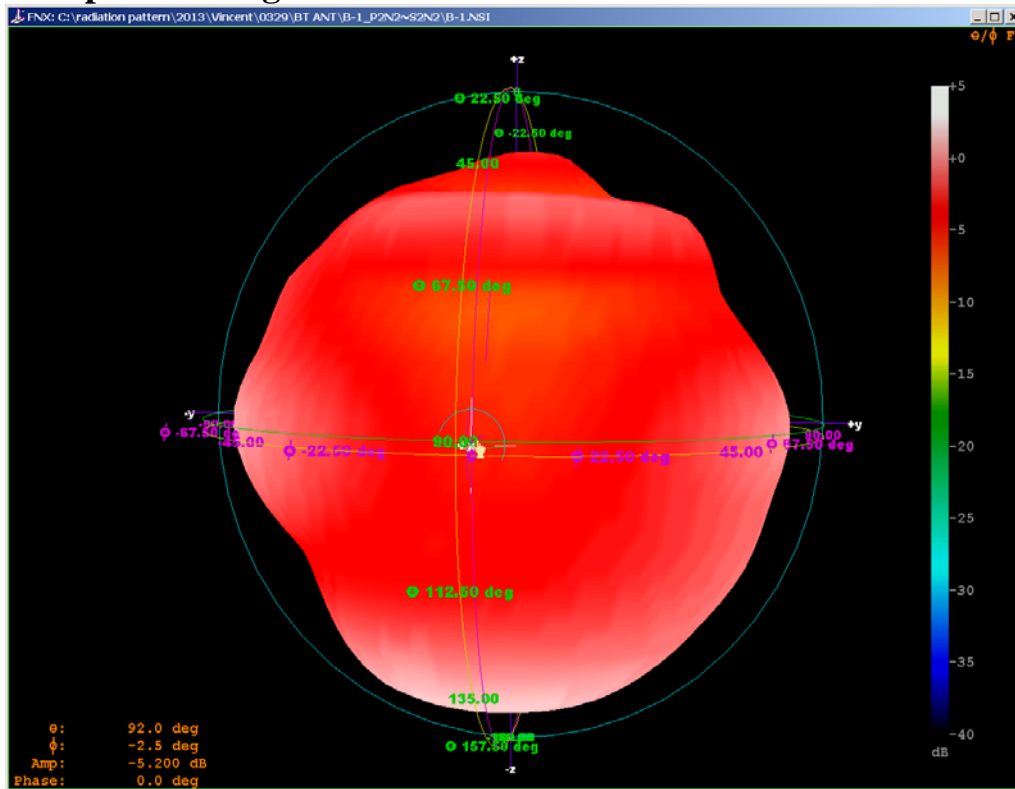
# Return Loss



# The Environment of Antenna Radiation Pattern

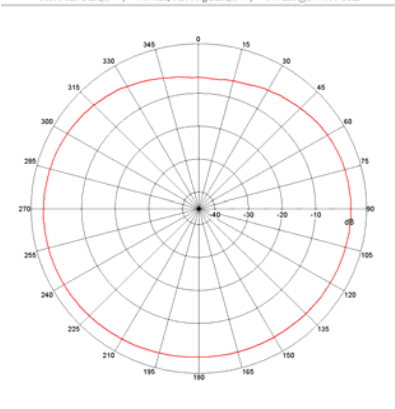


# 3D radiation pattern diagram



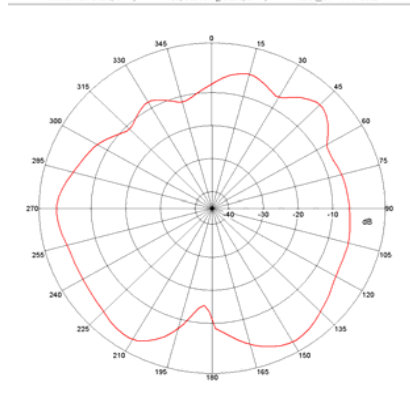
## XY-plane

Far-field Power Distribution(H+V) on X-Y Plane  
Plot Peak Gain(H+V)= 1.2 dBi; Plot AvgGain(H+V)= -0.5 dBi @2.44000 GHz



## XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane  
Plot Peak Gain(H+V)= 1.9 dBi; Plot AvgGain(H+V)= -3.6 dBi @2.44000 GHz



## YZ-plane

Far-field Power Distribution(H+V) on Y-Z Plane  
Plot Peak Gain(H+V)= 1.11 dBi; Plot AvgGain(H+V)= -2.99 dBi @2.44000 GHz

