

## Antenna specification

ALLSKY TECHNOLOGY CO., LIMITED  
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### Quick Reference Date

|                            |                                     |  |
|----------------------------|-------------------------------------|--|
|                            | Antenna module on the system board  |  |
| Frequenc Range             | 2400 ~ 2500GHz                      |  |
| Ant. Port Input Pwr. (dBm) | -1.2 (Typ. BT class 2 output power) |  |
| Tot. Rad. Pwr. (dBm)       | -1.2 (Input pwr – loss pwr)         |  |
| Peak EIRP(dBm)             | 0.0                                 |  |
| Directivity (dBi)          | 1 (all direction antenna)           |  |
| Efficiency (dB)            | 1.0%                                |  |
| Gain (dBi)                 | 0.26 (Avg Gain XY-plane)            |  |
| Maximum Power (dBm)        | 1 (XY-plane)                        |  |
| Minimum Power (dBm)        | -0.76(XY-plane)                     |  |
| Avg. Power (dBm)           | 0.46(XY-plane)                      |  |
| Input Impendence(ohm)      | 50                                  |  |
| Polarization Type          | Vertical & Horizontal               |  |
| V . S . W . R              | < 6                                 |  |

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

### Antenna Layout & module on the system board

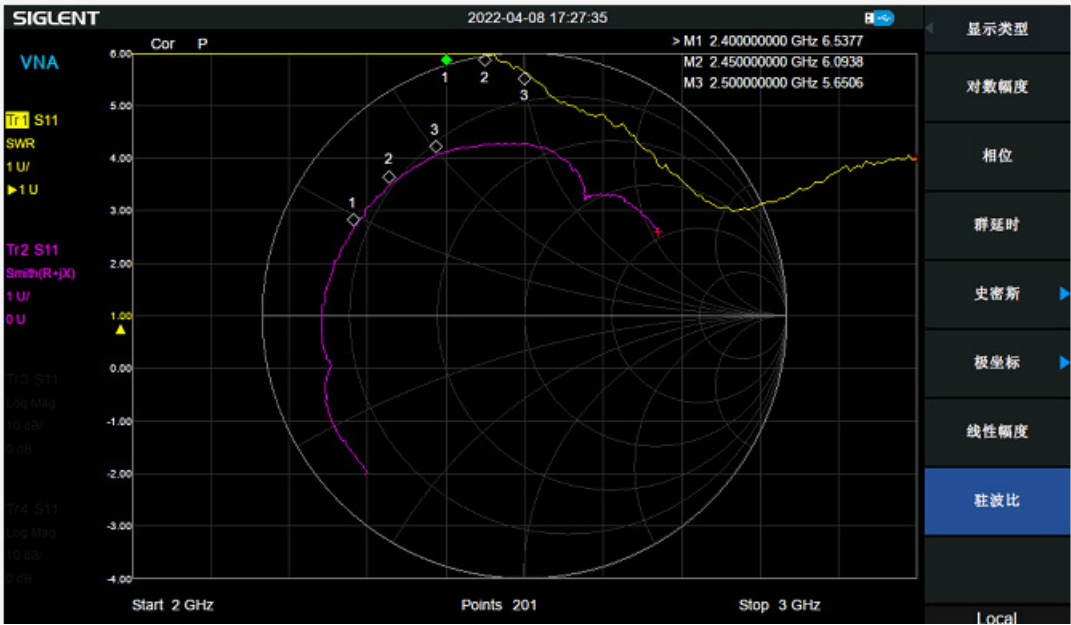


### Antenna Gain

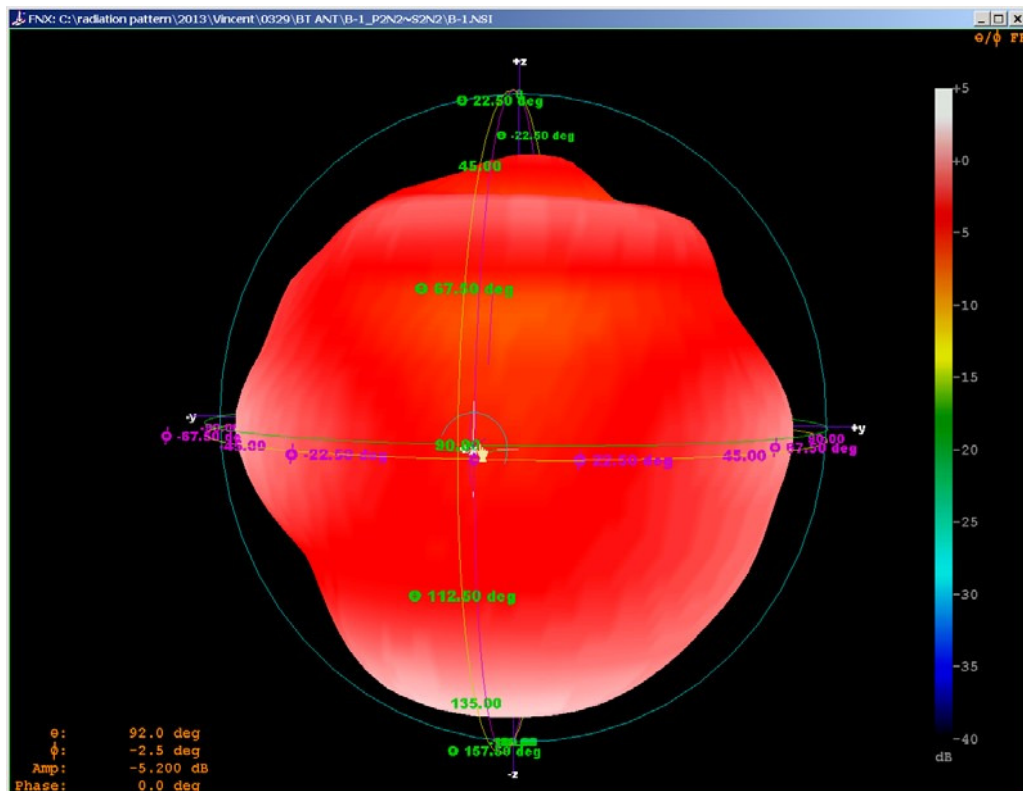
### Gain Table

| Unit in dBi @2.44GHz | XY-plane |       | XZ-plane |       | YZ-plane |       | Efficiency |
|----------------------|----------|-------|----------|-------|----------|-------|------------|
|                      | Peak     | Avg   | Peak     | Avg.  | Peak     | Avg.  |            |
| Module Board         | 0.26     | -0.76 | -0.37    | -0.42 | 0.11     | -0.86 | -0.58      |

Return Loss

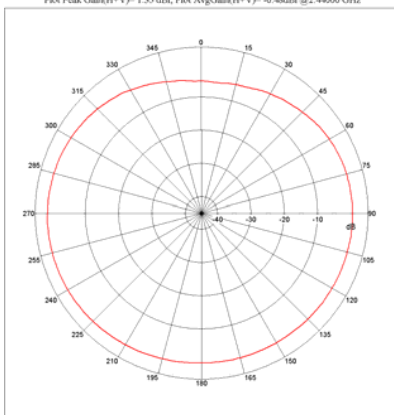


## 3D radiation pattern diagram



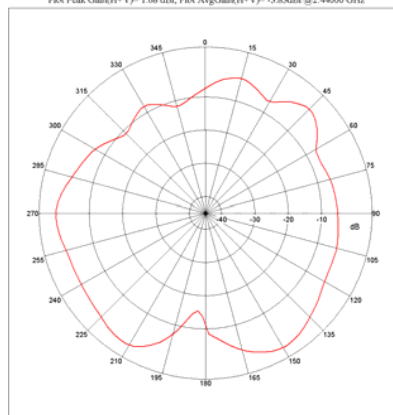
### XY-plane

Far-field Power Distribution(H+V) on X-Y Plane  
Plot Peak Gain(H+V)= 1.35 dB; Plot AvgGain(H+V)= -0.48dB @2.44000 GHz



### XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane  
Plot Peak Gain(H+V)= 1.68 dB; Plot AvgGain(H+V)= -3.83dB @2.44000 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 @2.44000 GHz

