

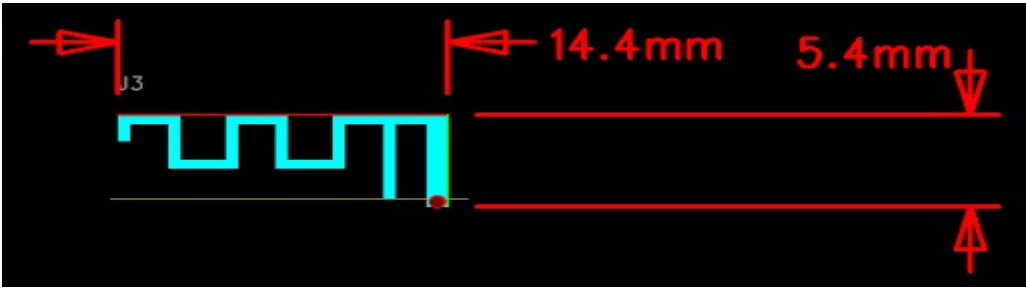
Antenna Specification

Quick Reference Date

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Antenna type               | PCB                                |  |
| Frequency                  | 2.45GHz*1                          |  |
| 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)                 | 1.68(Peak Gain XY-plane)           |  |
| Manufacturer               | Huizhou Haomuk Technology Co., Ltd |  |
| Model                      | AESEM1                             |  |

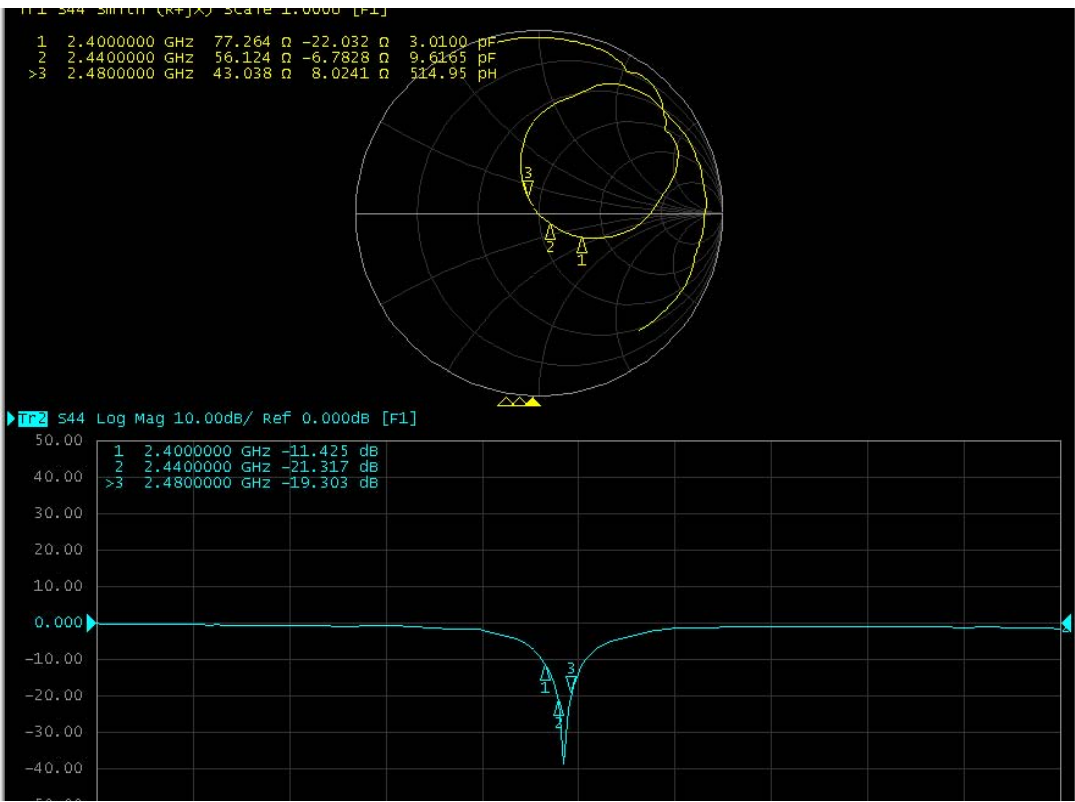
All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board

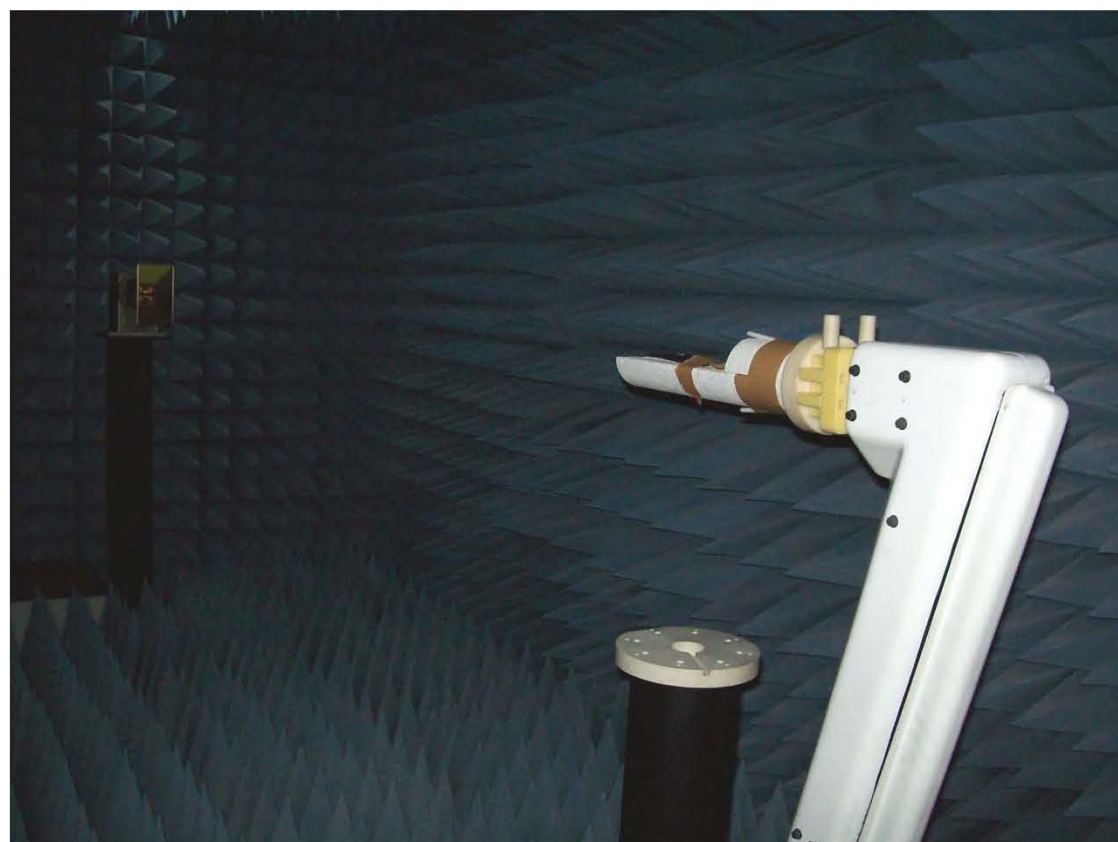
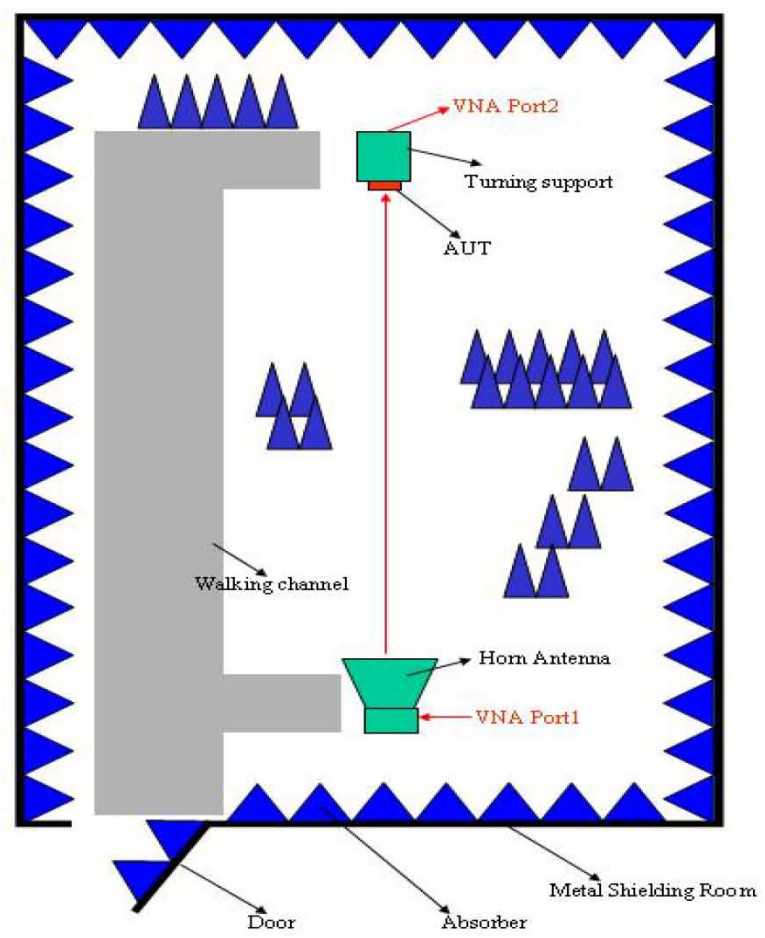


Antenna Gain

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 73.28       | -1.35        | 1.59          |
| 2450          | 65.79       | -1.82        | 1.68          |
| 2500          | 66.25       | -1.79        | 1.19          |



Return Loss



The Environment of Antenna Radiation Pattern

3D radiation pattern diagram

