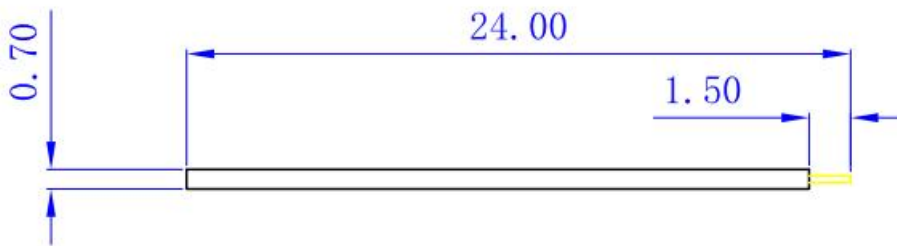


**Product specification****Quick Reference Date**

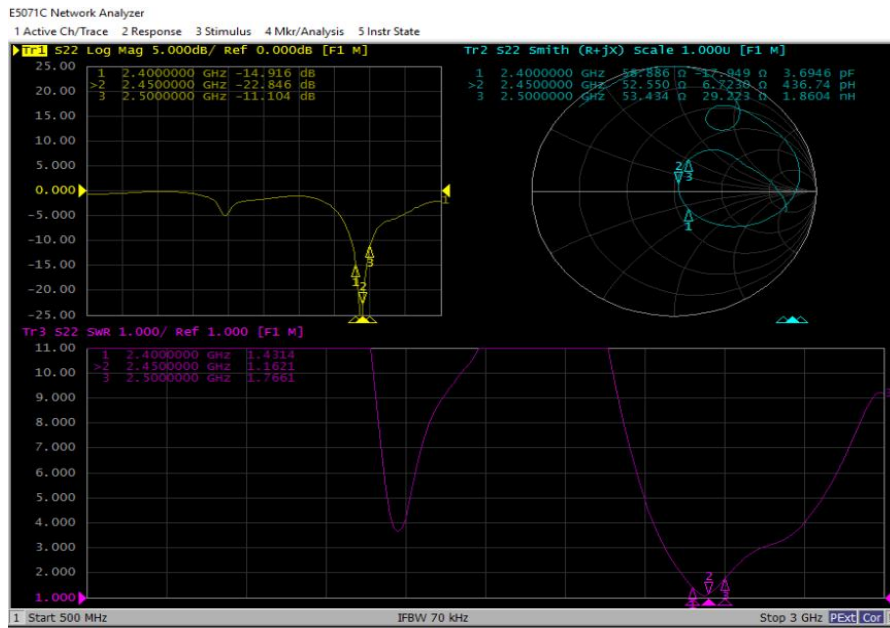
|                            |                                  |  |
|----------------------------|----------------------------------|--|
|                            | Monopoly Antenna                 |  |
| Frequenc Range             | 2400 ~ 2500GHz                   |  |
| Ant. Port Input Pwr. (dBm) | 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)            | 12 %                             |  |
| Gain (dBi)                 | 1.9                              |  |
| Maximum Power (dBm)        | 1.9(XY-plane)                    |  |
| Minimum Power (dBm)        | -5(XY-plane)                     |  |
| Avg. Power (dBm)           | -0.8(XY-plane)                   |  |
| Input Impendence(ohm)      | 50                               |  |
| Polarization Type          | Vertical & Horizontal            |  |
| V. S .W. R                 | < 1.4                            |  |

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

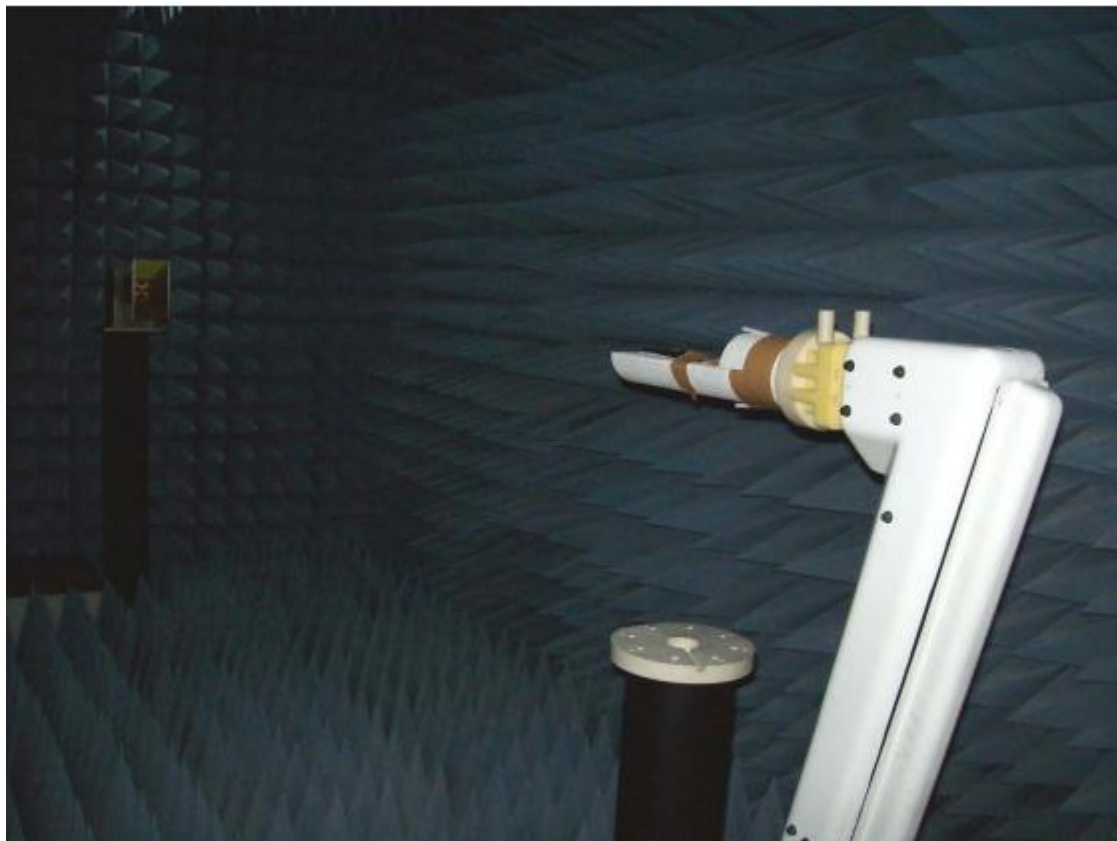
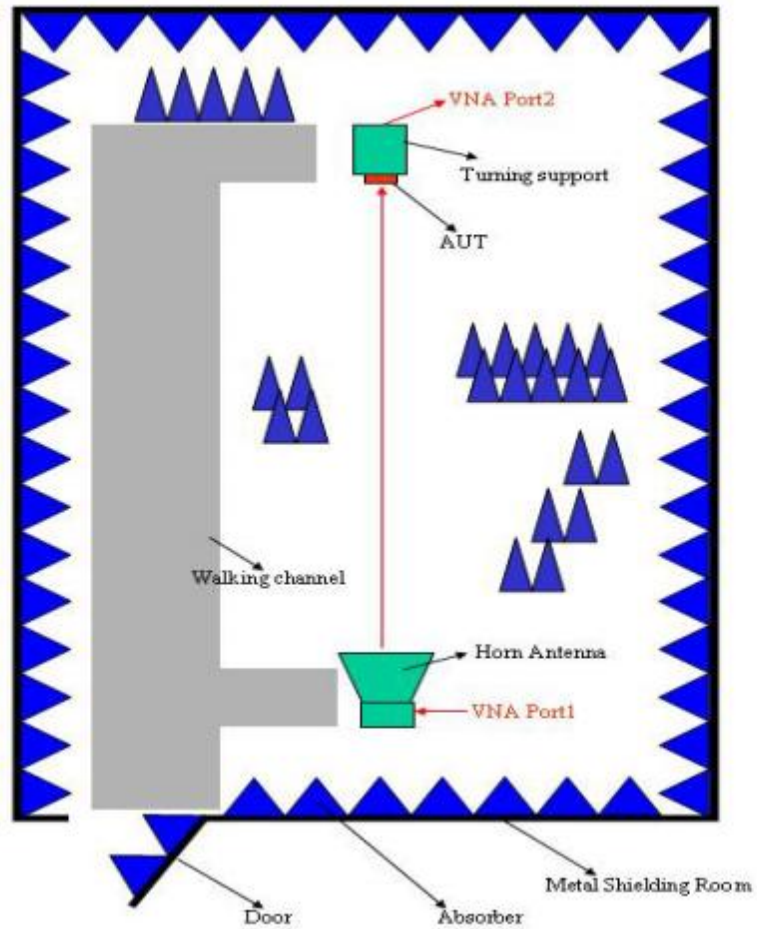
**Antenna Layout & module on the system board****Antenna Gain****Gain Table**

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

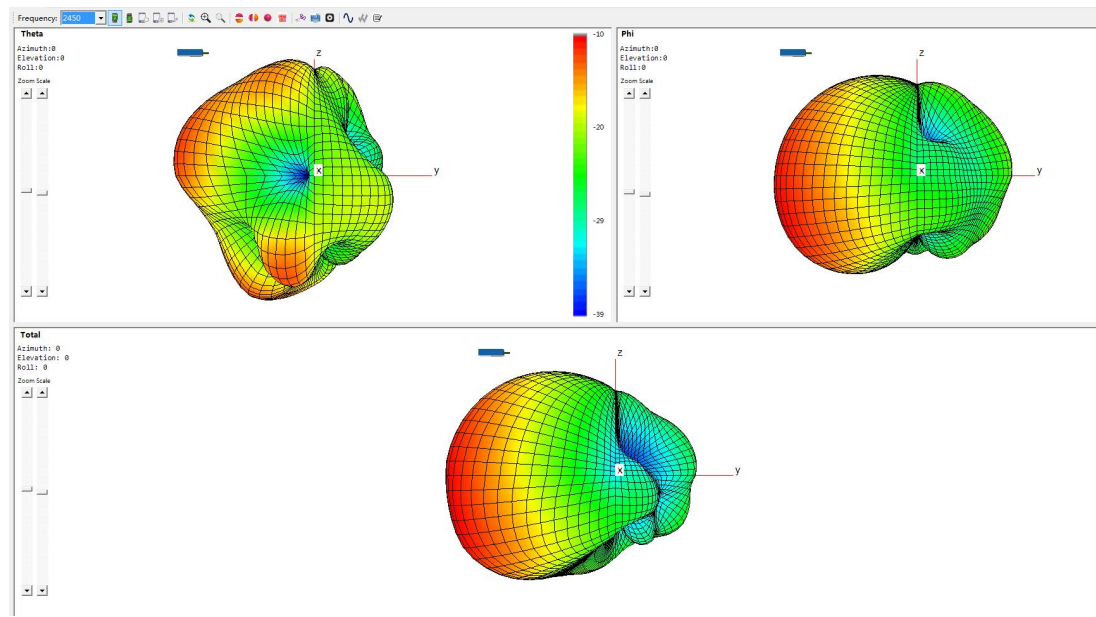
# Return Loss



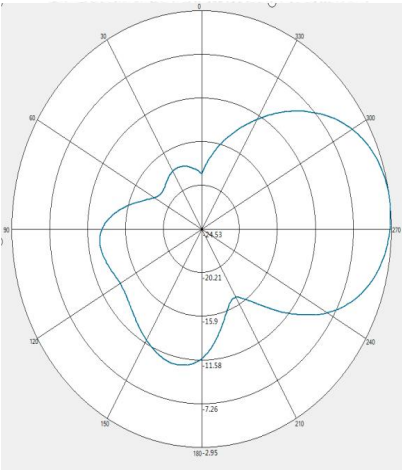
## The Environment of Antenna Radiation Pattern



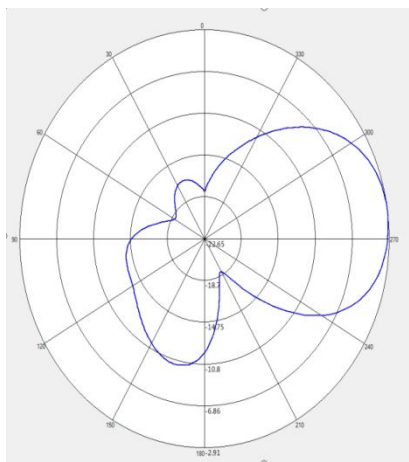
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

