

# Antenna Debugging Data Report

## 天线调试数据报告

|                      |                    |
|----------------------|--------------------|
| Project Name<br>项目名称 | Microphone speaker |
| Antenna form 天线形式    | inverted-f         |
| Report Date 报告日期     | 2025/01/14         |

Test engineer 测试工程师:

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To examine 审核:

Cheng Yan 程艳

Cheng Yan 程艳

Approve 批准:

Huang Feng Qiong 黄凤琼

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Test time 测试时间:

2025/01/14

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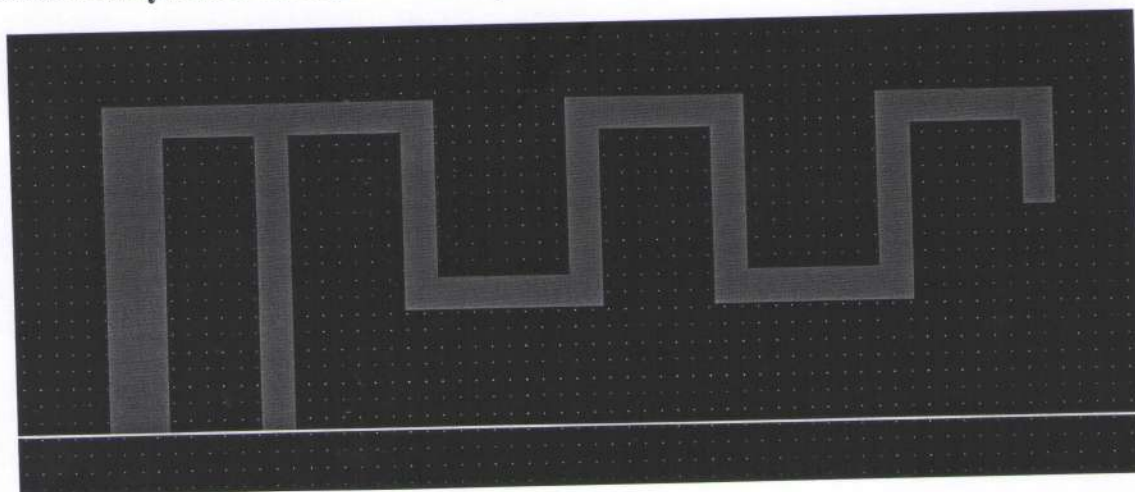
## Product specification

### Quick Reference Data

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | 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)                 | 1.9 (Avg 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                              |  |

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

### Antenna Layout & module on the system board

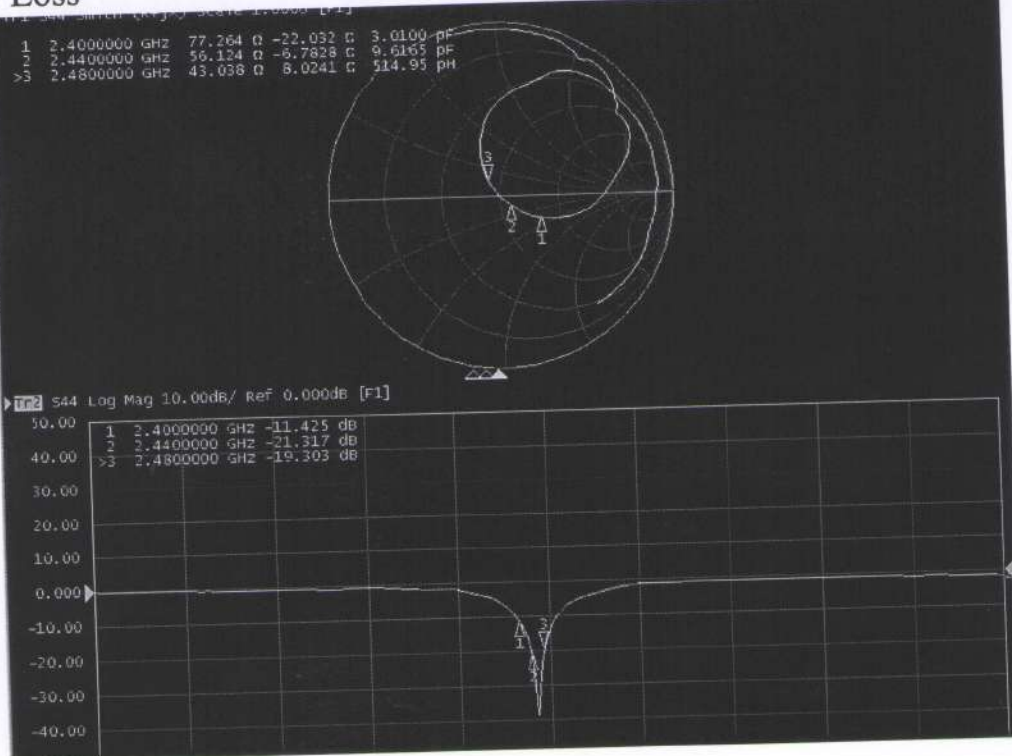


### Antenna Gain

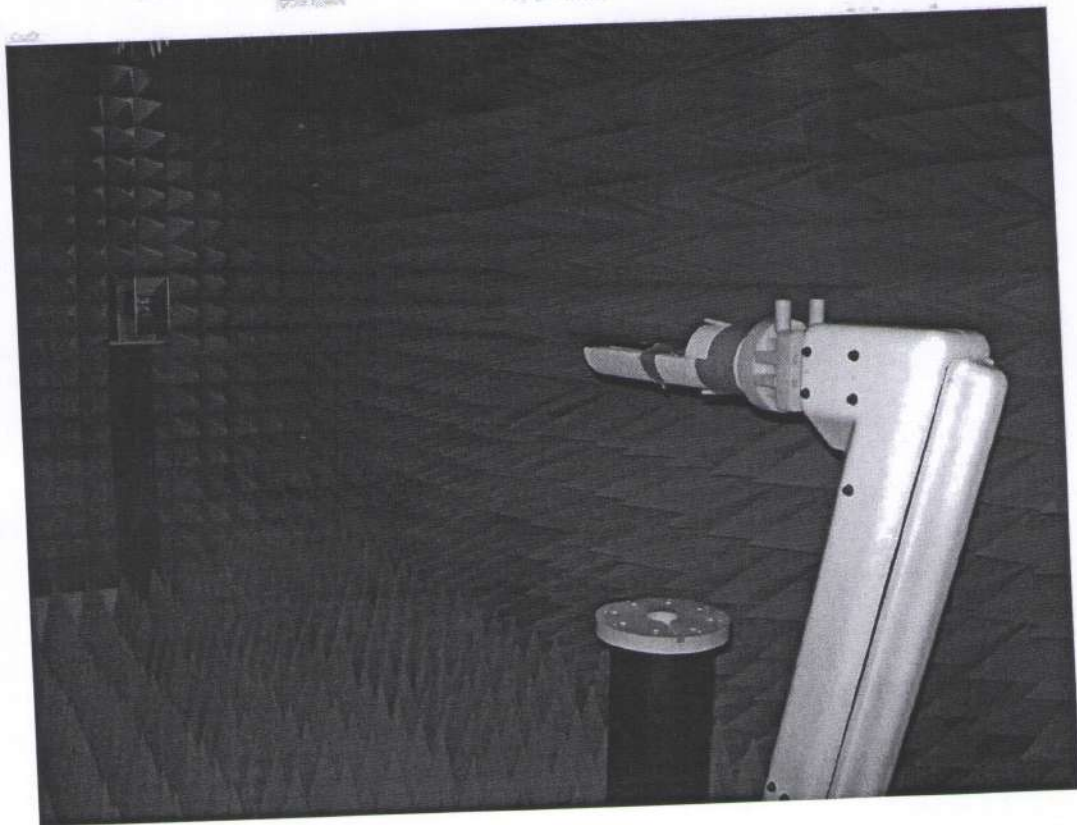
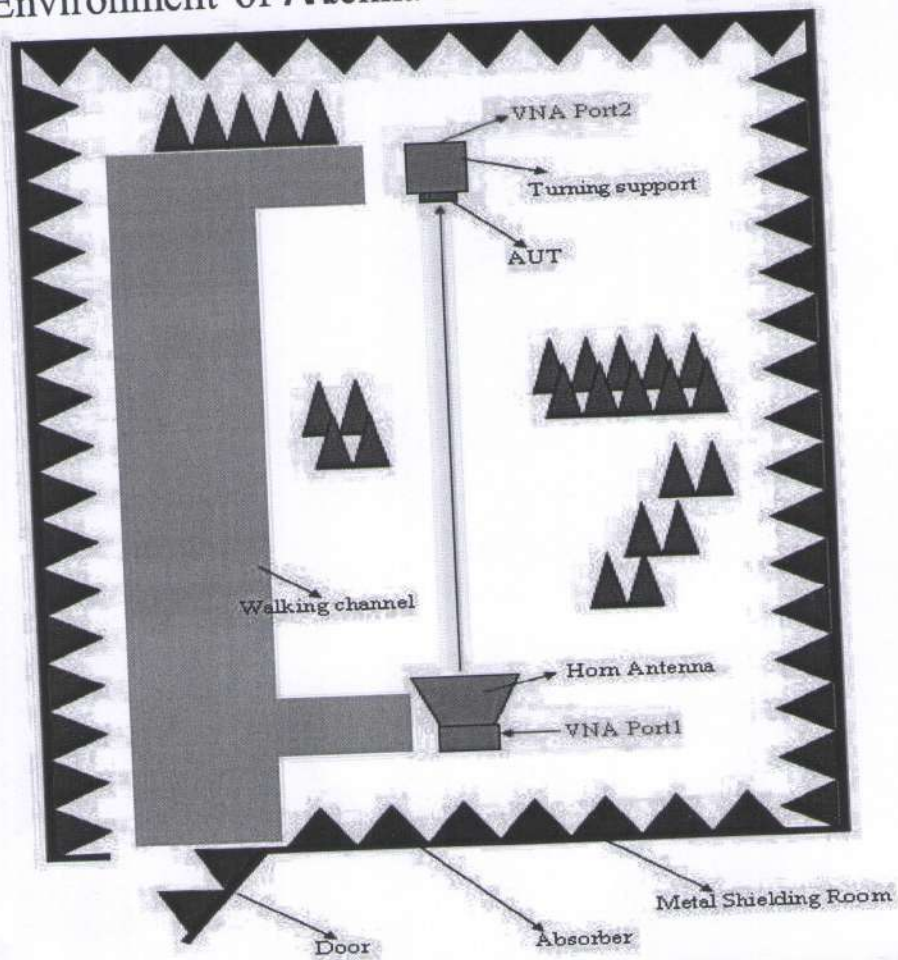
### Gain Table

| 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 | 6 0.2 %    |

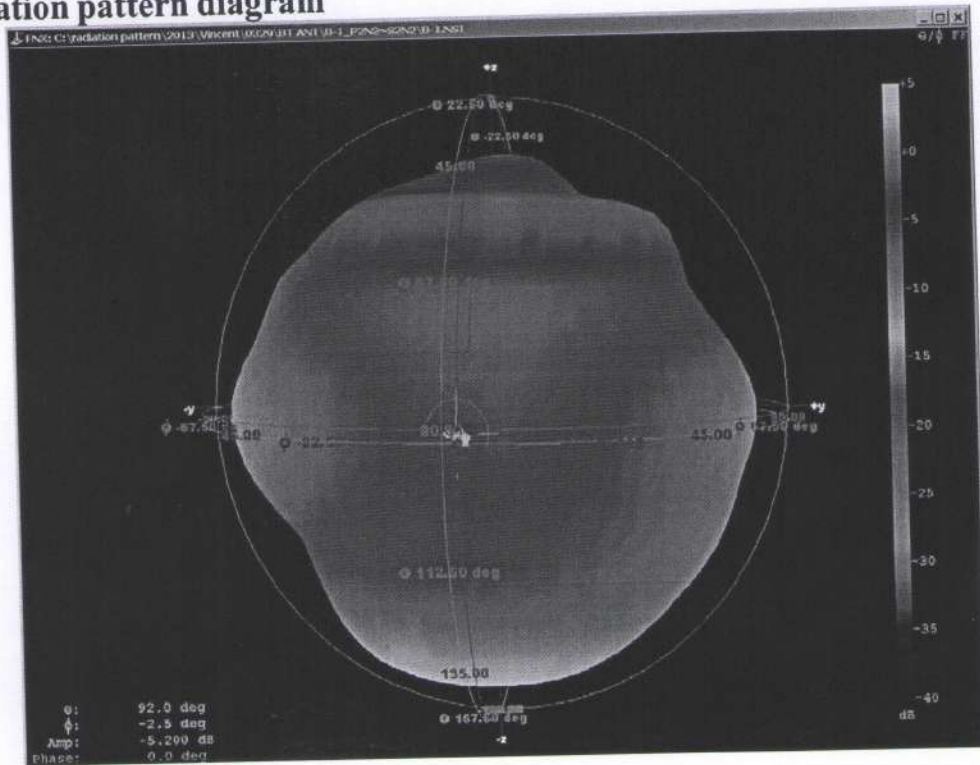
# Return Loss



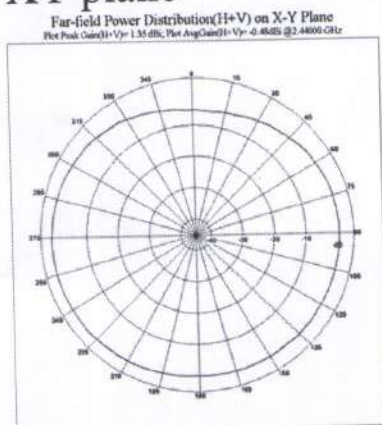
## The Environment of Antenna Radiation Pattern



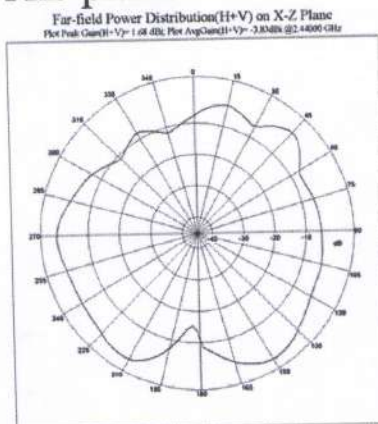
### 3D radiation pattern diagram



### XY-plane



### XZ-plane



### YZ-plane

