

## Antenna test report

Customer Name: Sonic electron

Antenna Type:

Antenna Manufacturer:

Examine: 2024. 08. 26

Give permission to 2024. 08. 26

Manufacturer: dongguanshiyinpaidianziyouxiangongsi

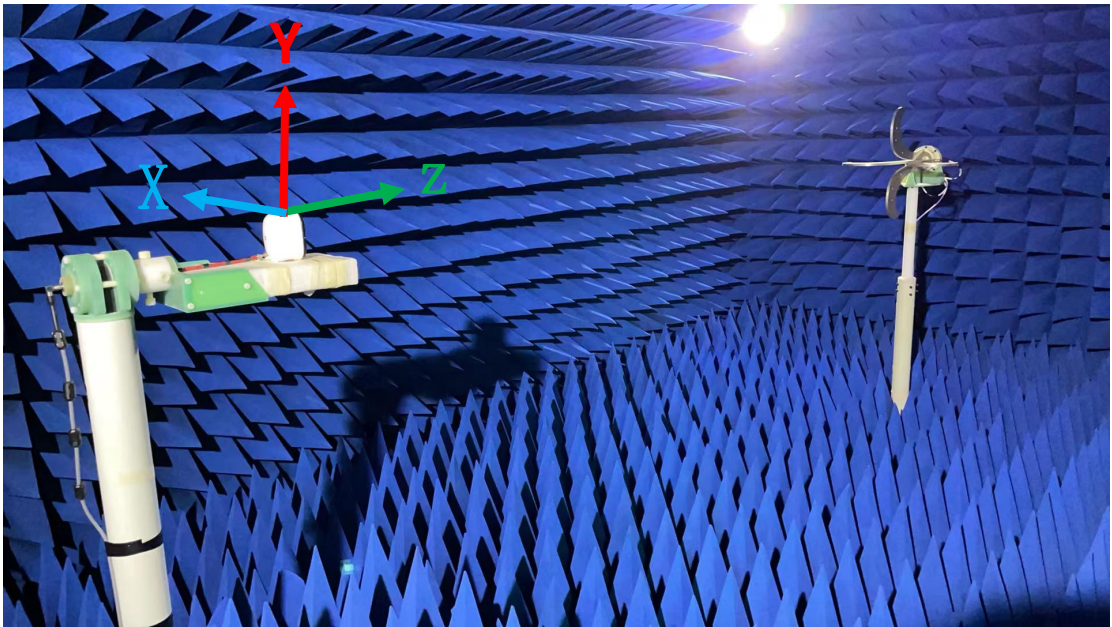
Address:

guangdongshengdongguanshifenggangzhennanlinglu23hao2dong201shi

1 Basic Description

1.1 Test Environment Description

| 项目    | 配置            | 备注 |
|-------|---------------|----|
| 实验室名称 | ZLYD 实验室      |    |
| 暗室系统  | ETS 6*3*3     |    |
| 测试仪表  | E5071C、CMW500 |    |
| 相对坐标  | 见附件图片         |    |
| 无源测试点 | 见附件图片         |    |



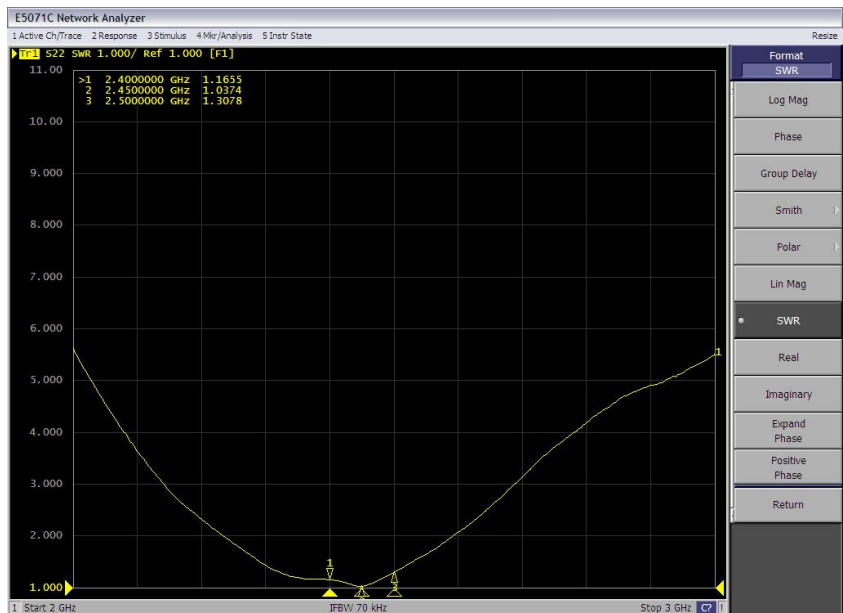
相对坐标说明图

## 1.2 Basic Description of the device to be tested



The relative position of each antenna is described

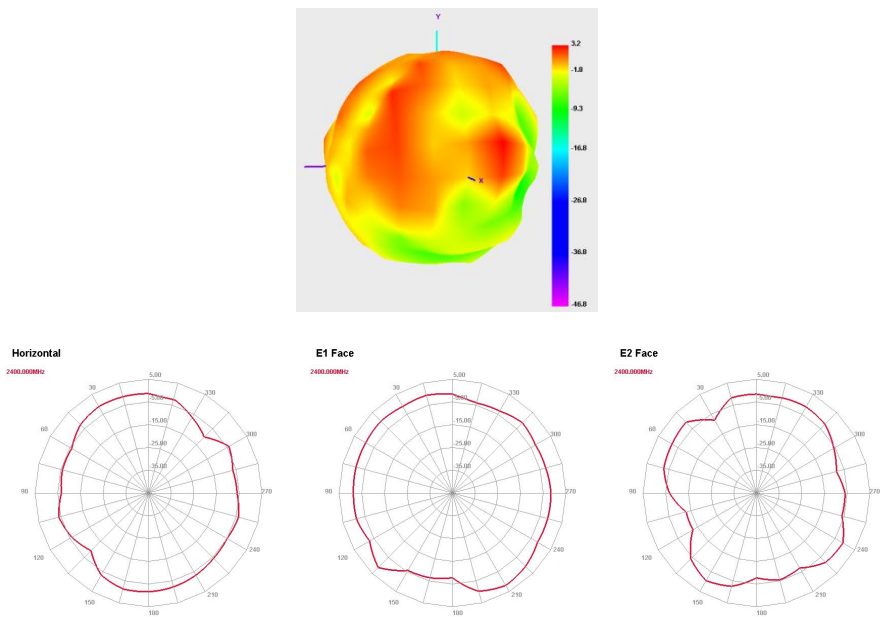
## 2 Antenna Passive Mesh Testing (VSWR)



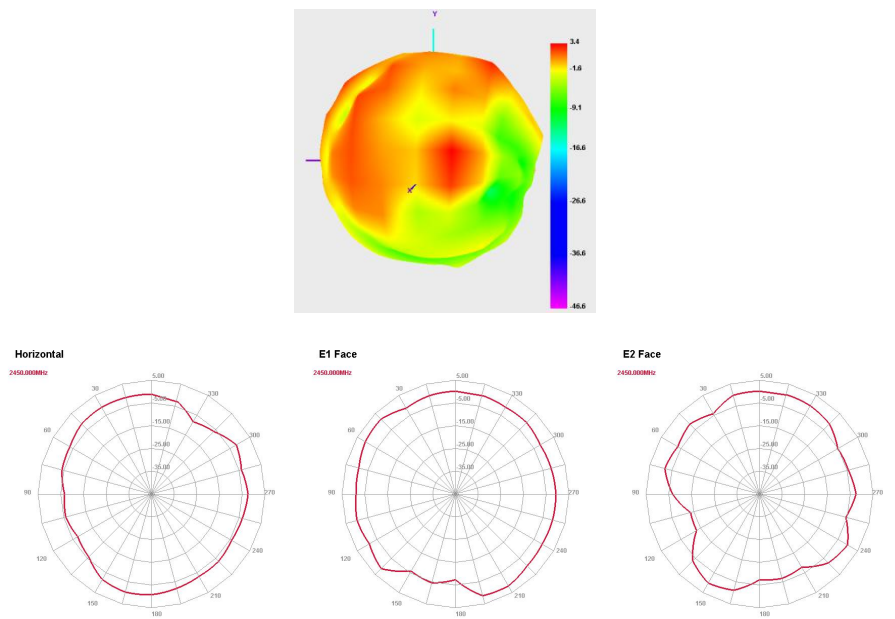
## 3 Darkroom test

### 3.1 2D/3D field pattern

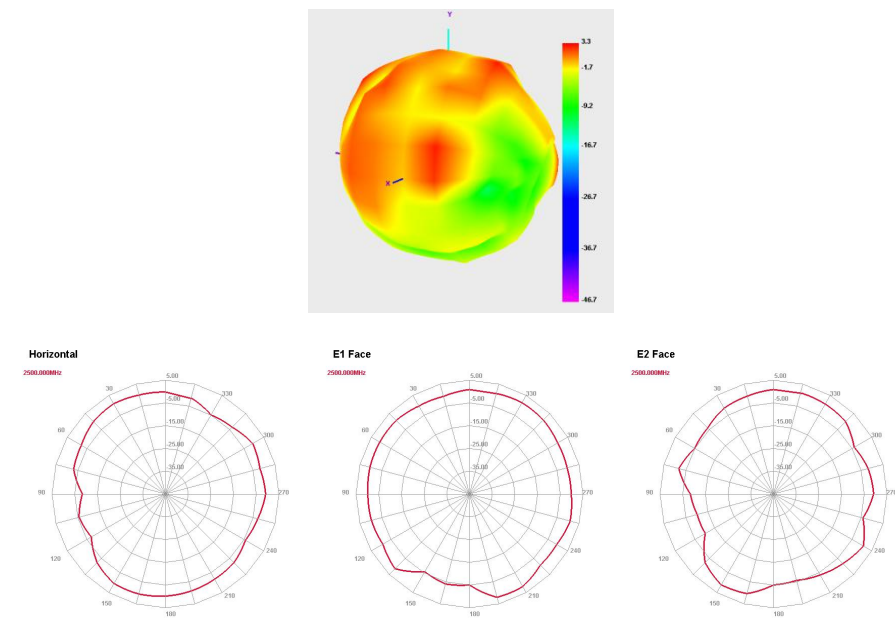
2400MHz



2450MHz



2500MHz



4 Antenna gain and efficiency

| 2.4G 天线 |         |       |
|---------|---------|-------|
| 频率（MHZ） | 增益（dBi） | 效率（%） |
| 2400    | 3.36    | 64.32 |
| 2450    | 3.63    | 65.28 |
| 2500    | 3.56    | 63.06 |

5 Active TRP&TIS test

| 模式      | 信道 | 速率   | TRP（dBm） | TIS（dBm） |
|---------|----|------|----------|----------|
| 802.11b | 1  | 11M  | 19.12    | -80.36   |
|         | 6  | 11M  | 19.35    | -81.79   |
|         | 11 | 11M  | 20.21    | -80.12   |
| 802.11g | 1  | 54M  | 18.52    | -71.53   |
|         | 6  | 54M  | 18.28    | -73.36   |
|         | 11 | 54M  | 19.20    | -72.61   |
| 802.11n | 1  | MCS7 | 17.14    | -68.18   |
|         | 6  | MCS7 | 18.27    | -68.23   |
|         | 11 | MCS7 | 18.92    | -67.85   |