

## 1. Antenna Specification/天线标准

## Antenna Specification/天线技术参数

## Electrical Specification/电气特性

| Item/目录               | Specification/规格      | Comment<br>/备注 |
|-----------------------|-----------------------|----------------|
| Freq. Range/频段范围      | 902MHz-928MHz         |                |
| Impedance/阻抗          | 50 ( $\Omega$ )       |                |
| Directional/辐射方向      | Omni Directional      |                |
| Polarization/极化形式     | Vertical              |                |
| VSWR/驻波比              | $\leq 2/\leq 4$       |                |
| Peak Gain/峰值增益        | -0.22 dBi             |                |
| Total Efficiency/无源效率 | 33%/26%               |                |
| Test condition/测试条件   | passive test ( 无源测试 ) |                |
|                       |                       |                |

## Mechanical Specification/机械指标

|                      |       |  |
|----------------------|-------|--|
| Antenna type/天线类型    | 内置天线  |  |
| Connector Type/连接器类型 | N/A   |  |
| RF Cable Type/射频线型号  | N/A   |  |
| Salt Spray/盐雾测试      | 48(H) |  |

## Environmental Specification /环境指标

|                     |               |  |
|---------------------|---------------|--|
| Operating temp/工作温度 | -40°C ~ +80°C |  |
| Storage temp/存储温度   | -40°C ~ +85°C |  |

Antenna Picture/天线图片



插入天线图片

此处

2. DWG/工程图纸



**ELECTRIC  
CONNECTOR  
TECHNOLOGY**

## Product Specification

**P/N:**

**81800VXX1**

**Rev.:**

**X1**

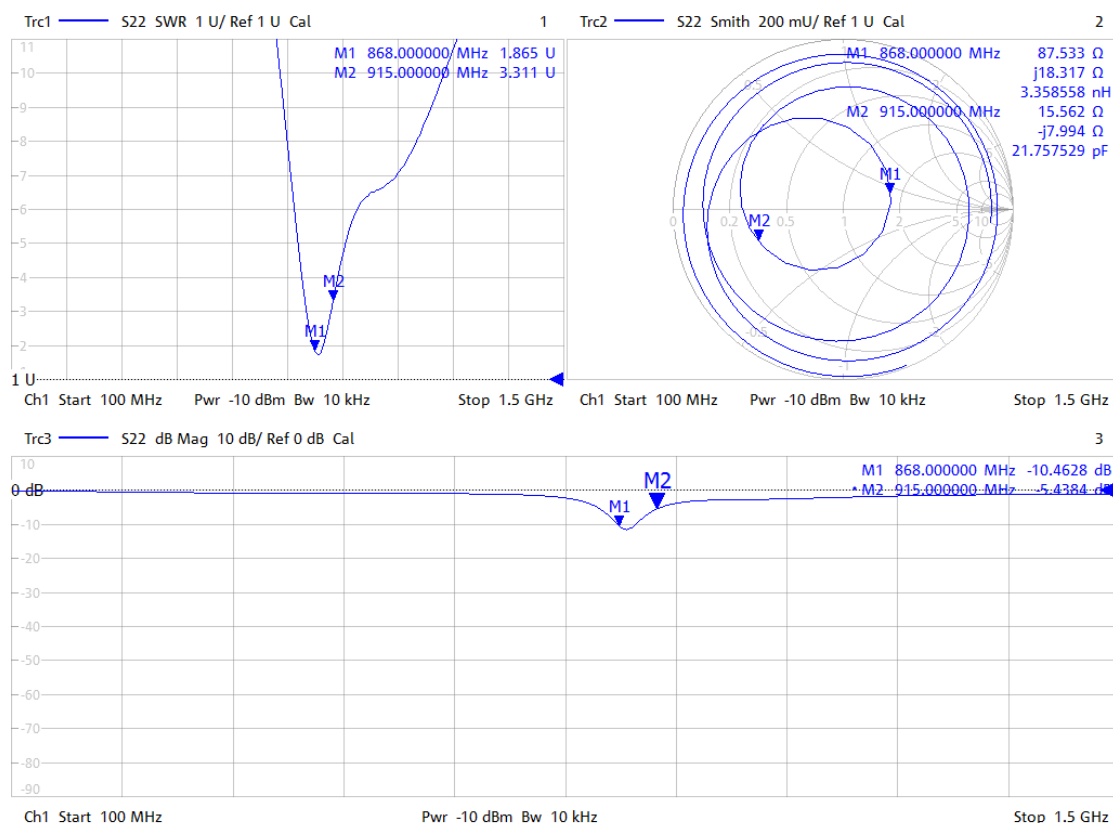
**Page:**

**3 / 7**

海样规格书

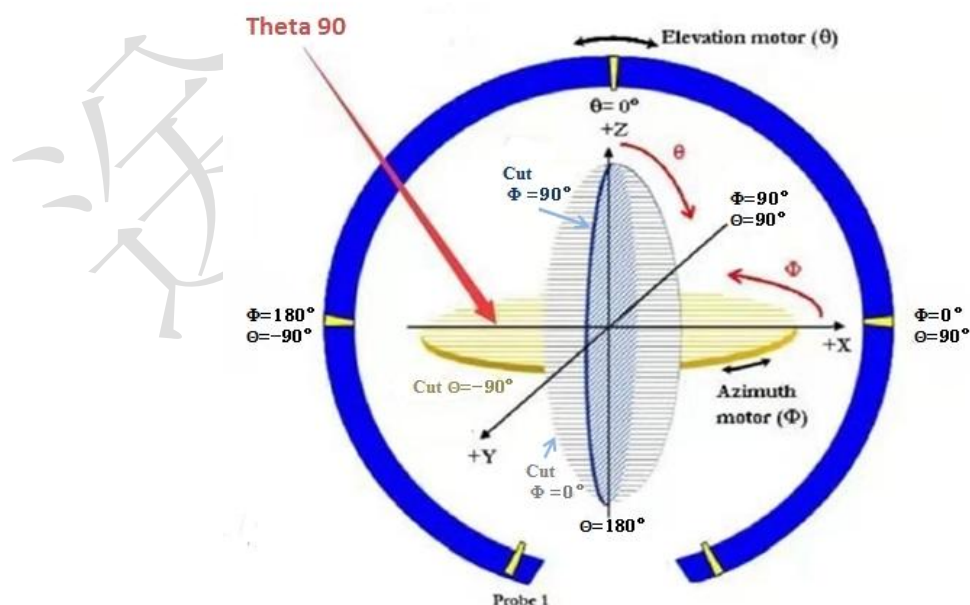
## 4. Antenna test result/测试结果

### 4.1 Isolation degree/ VSWR/驻波比

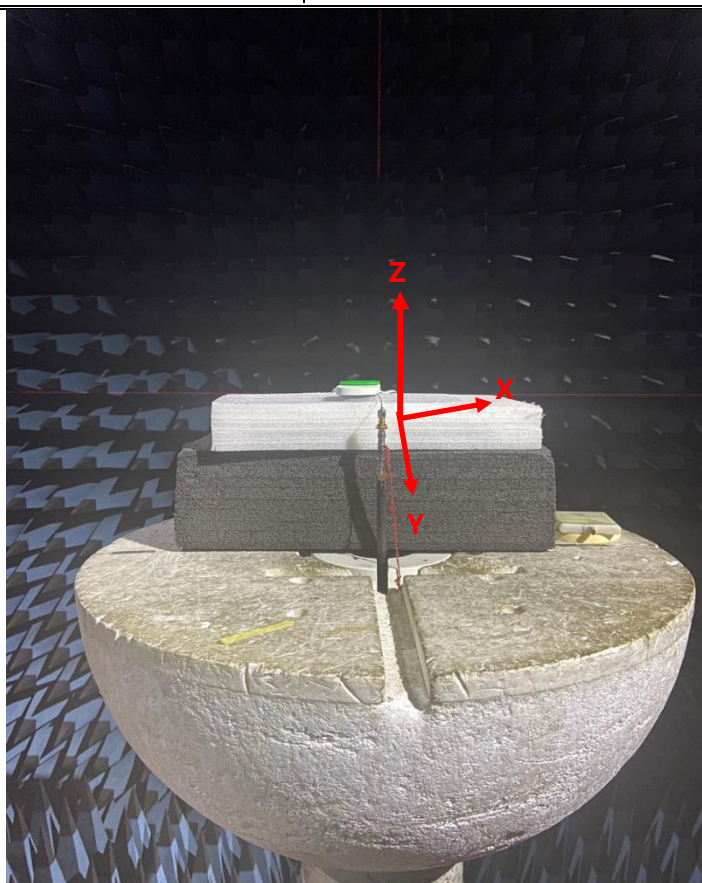


### 4.2 The gain and total efficiency test/增益和效率测试

#### 4.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



The production test position/天线测试放置位置

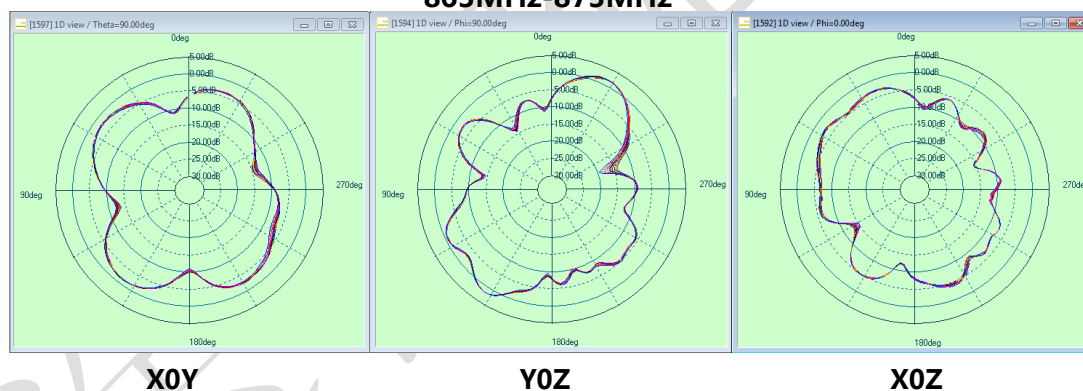
#### 4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果

## 910MHz-920MHz

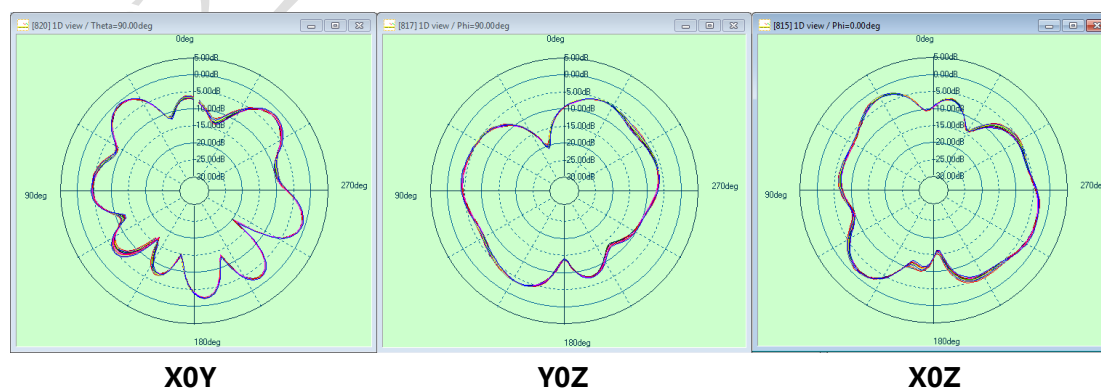
| Frequency | Gain (dBi) | Efficiency(%) |
|-----------|------------|---------------|
| 910MHz    | -0.09      | 28%           |
| 911MHz    | -0.03      | 28%           |
| 912MHz    | -0.05      | 27%           |
| 913MHz    | -0.16      | 26%           |
| 914MHz    | -0.29      | 26%           |
| 915MHz    | -0.39      | 25%           |
| 916MHz    | -0.43      | 25%           |
| 917MHz    | -0.41      | 26%           |
| 918MHz    | -0.33      | 26%           |
| 919MHz    | -0.20      | 27%           |
| 920MHz    | -0.06      | 27%           |
| AVG       | -0.22      | 26%           |

### 4.2.3 The antenna radiation pattern(1D View)/天线辐射方向图 ( 1D View )

#### 863MHz-873MHz

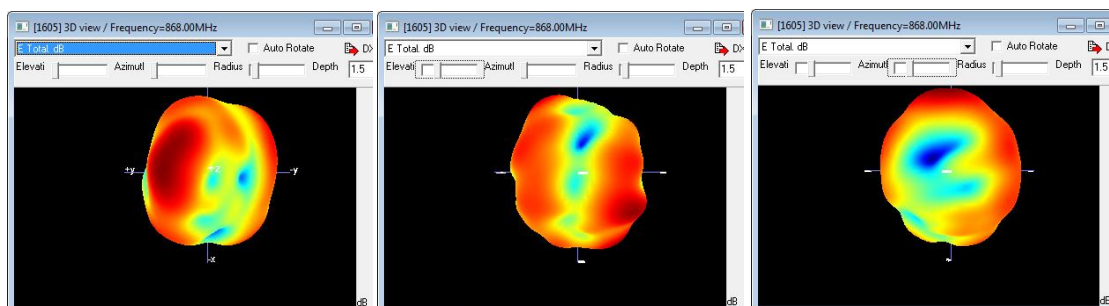


#### 910MHz-920MHz



## 4.2.4 The antenna radiation pattern(3D View)/天线辐射方向图 ( 3D View )

### 868MHz

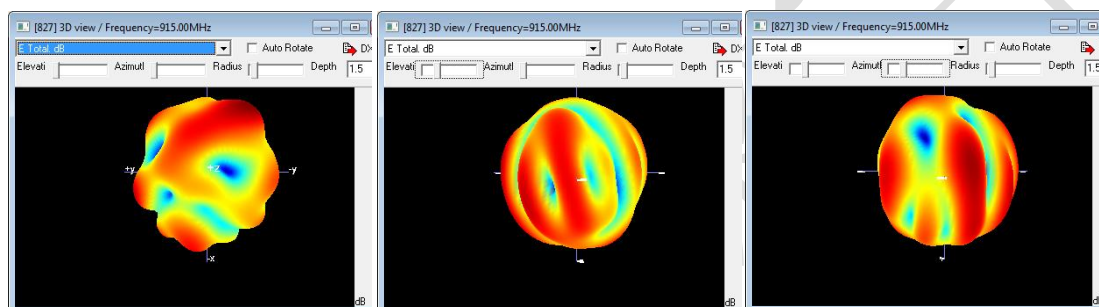


X0Y

Y0Z

X0Z

### 915MHz



X0Y

Y0Z

X0Z