

## 样品承认书

### Parts Approval Sheet

生产供应商: 东莞可讯电子有限公司

物料名称: 天线类

**Supplier**

**Parts Name**

型号/规格: TX-HF-H-TV101X (长300mm) 带IPEX端子 (带套管)

海勤料号: 1.01.18.01.2.0009

**Type/Spec**

**Parts No**

品牌: \_\_\_\_\_

样品数量: \_\_\_\_\_

**Brand**

**Quantity**

送样日期: 2024.12.9

文件编号: \_\_\_\_\_

**Send out Date**

**Document No**

承认日期: \_\_\_\_\_

版本: \_\_\_\_\_

**Approve Date**

**Version**

| Supplier                                                                            |             | Customer         |              |
|-------------------------------------------------------------------------------------|-------------|------------------|--------------|
| Approved By                                                                         | Prepared By | Engineering Dept | Quality Dept |
|  |             |                  |              |



# 东莞可讯电子有限公司

## 承认书

(Revision: R: A1)

|  |                |            |         |
|--|----------------|------------|---------|
|  | CUSTOMER(客户名称) |            |         |
|  | CS P/N(客户机种)   | 铜管         |         |
|  | PART NAME(品名)  | WIFI 天线    | L=300MM |
|  | FREQUENCY(频率)  | 2.4G~5.85G |         |
|  | NO.(物料编号)      |            |         |
|  | DATE(日期)       | 2024.12.9  |         |

|               |               |               |                    |
|---------------|---------------|---------------|--------------------|
| CUSTOMER      |               |               |                    |
| QA<br>CHECKED | ME<br>CHECKED | RF<br>CHECKED | MANAGER<br>CHECKED |
|               |               |               |                    |

Remark(备注):

Sign(客户确认签字盖章): \_\_\_\_\_

|                    |                    |               |               |        |
|--------------------|--------------------|---------------|---------------|--------|
| MANAGER<br>CHECKED | MANAGER<br>CHECKED | ME<br>CHECKED | RF<br>CHECKED | LISTER |
|                    |                    | 吴宇            | 钟志            |        |

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## Revision history

| 版本 | 日期        | 状态    |
|----|-----------|-------|
| A1 | 2024.12.9 | 首版承认书 |
|    |           |       |
|    |           |       |
|    |           |       |



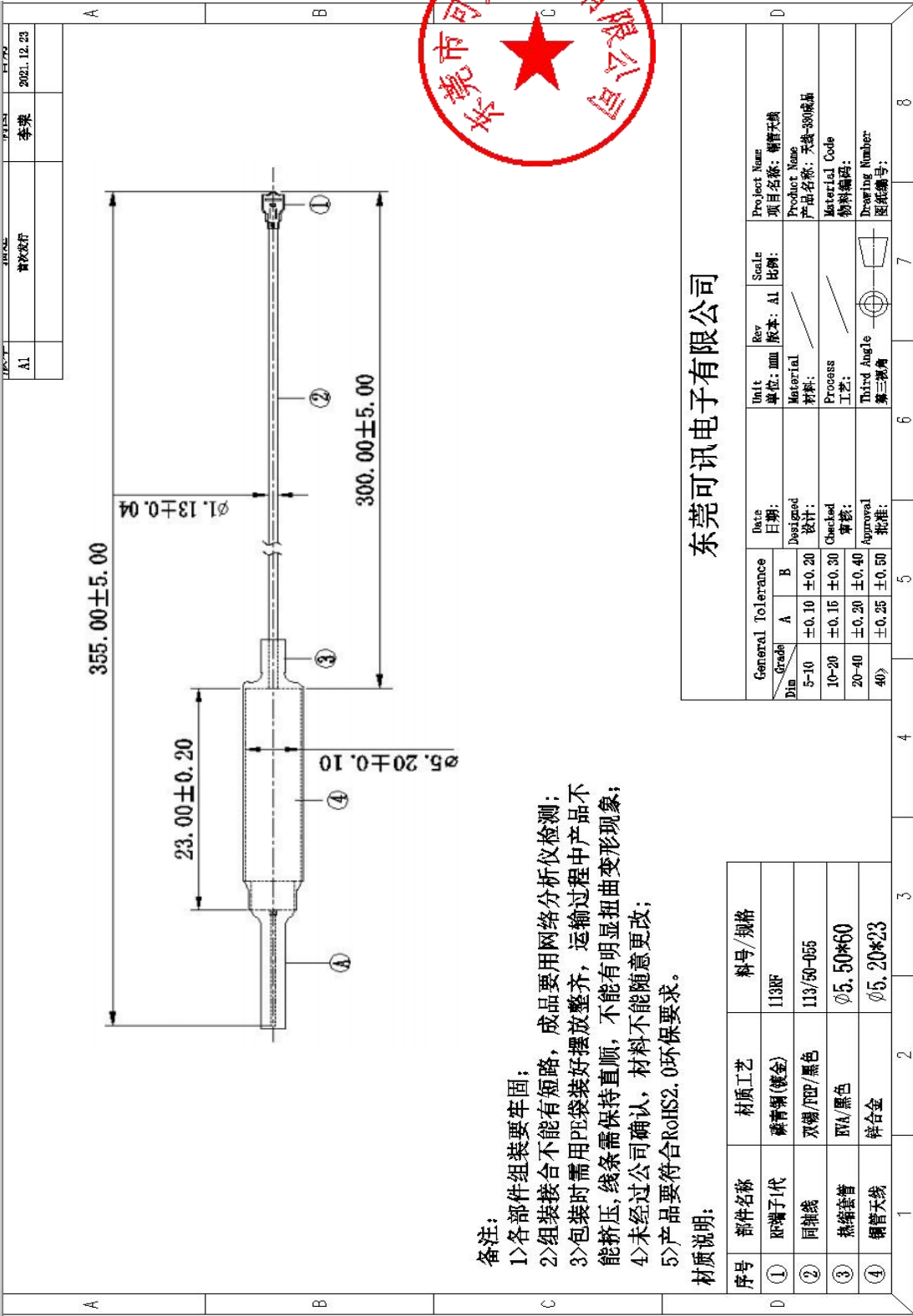
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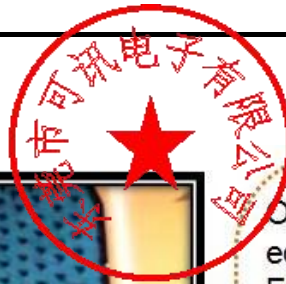
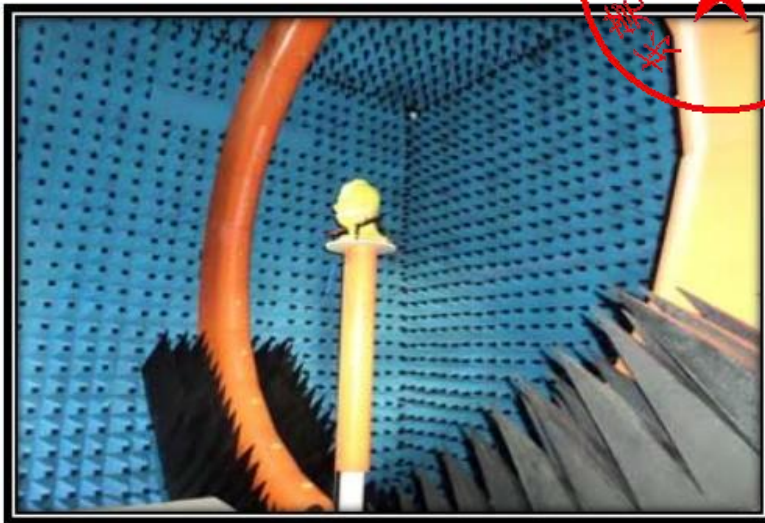
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1. Mechanical Specification

1-1 Mechanical Configuration(天线组件)



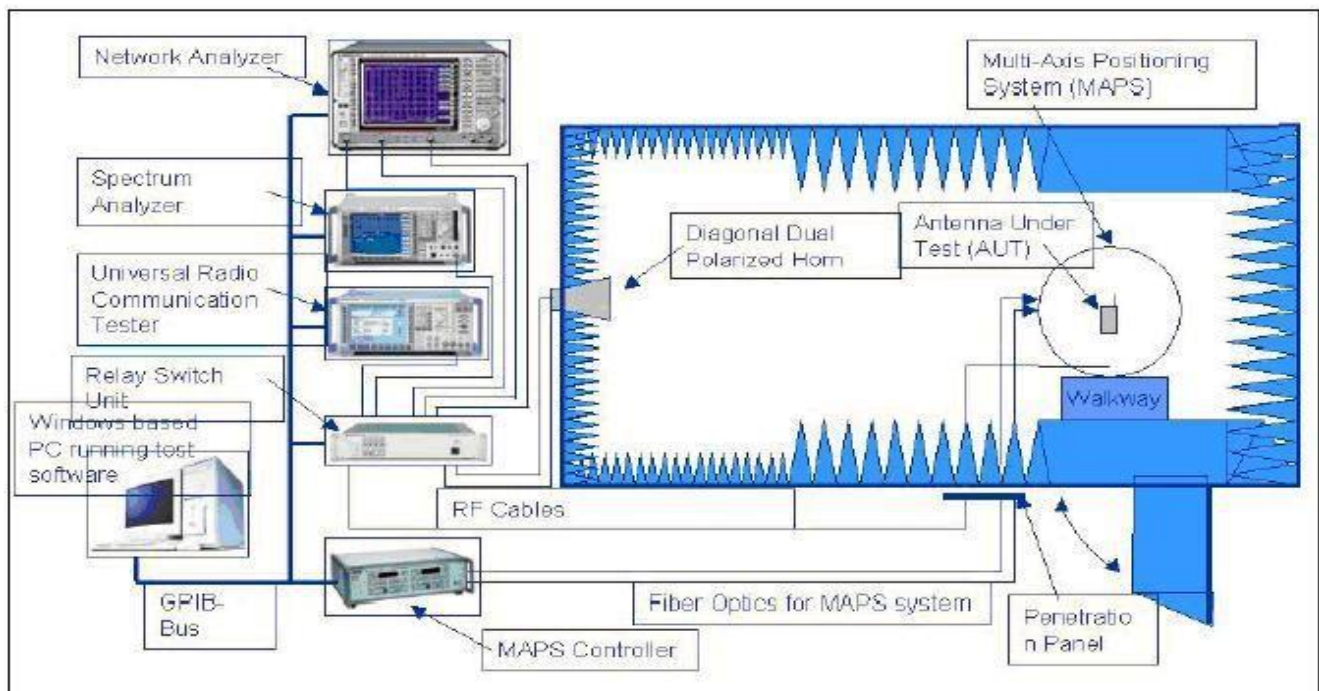
## 2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

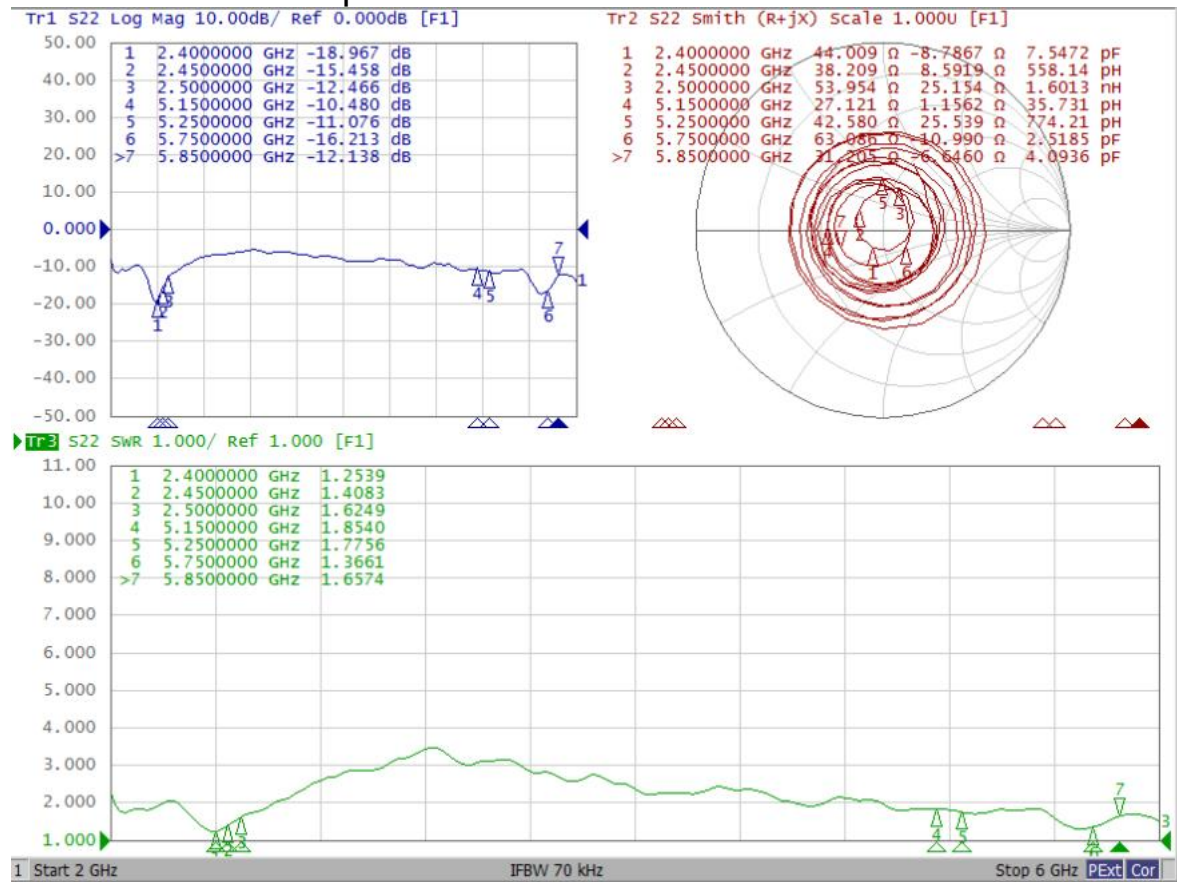
Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.





### 3. Antenna test data

#### 3-1 VSWR & Return loss plot & Smith Chart

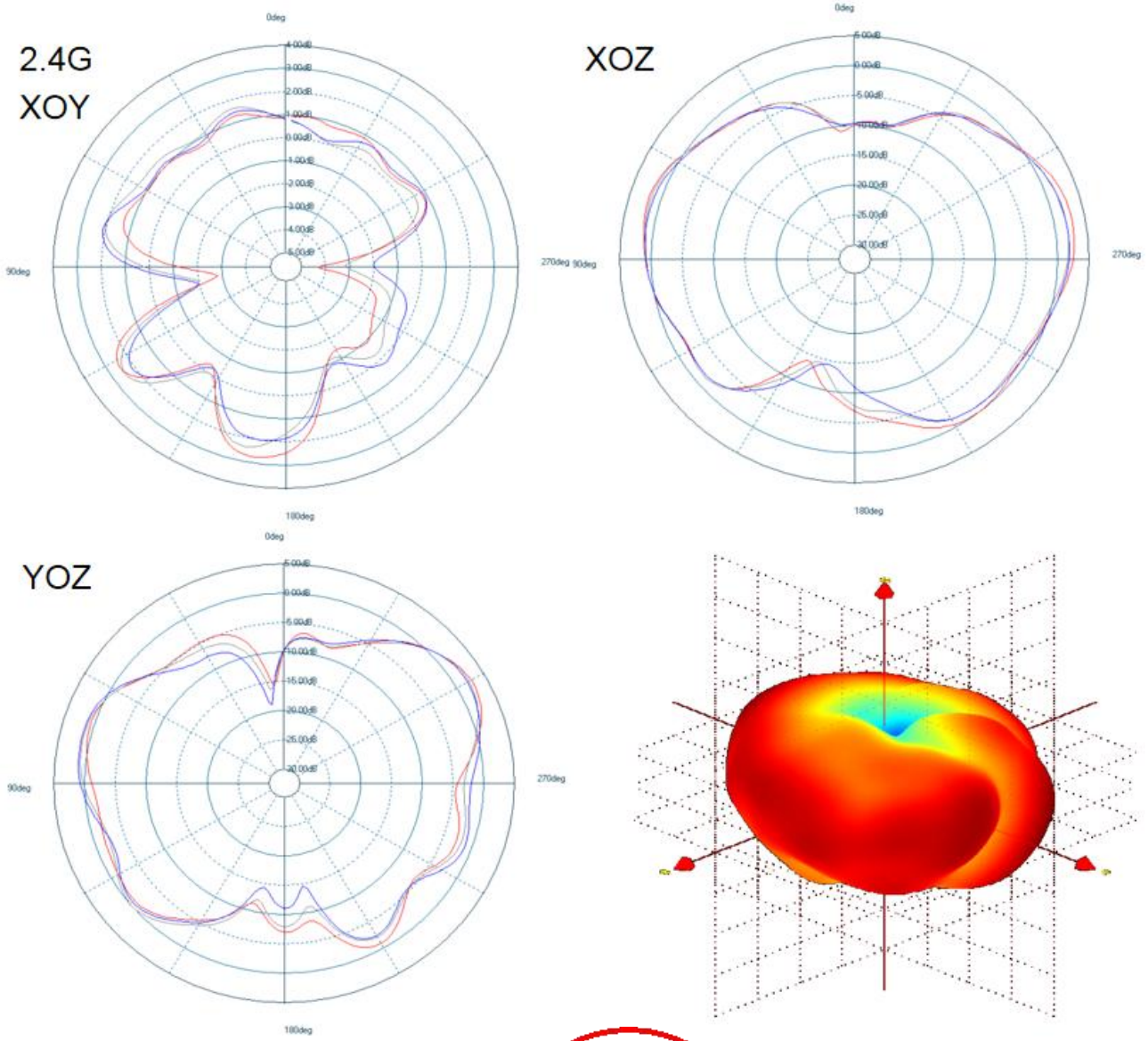


#### 3-2 No-source test data

| Frequency | Efficiency | Efficiency | Gain . dB |
|-----------|------------|------------|-----------|
| 2.4E+09   | 71%        | -1.47      | 3.23      |
| 2.41E+09  | 72%        | -1.42      | 3.38      |
| 2.42E+09  | 73%        | -1.39      | 3.20      |
| 2.43E+09  | 72%        | -1.43      | 3.06      |
| 2.44E+09  | 72%        | -1.42      | 2.84      |
| 2.45E+09  | 70%        | -1.56      | 2.62      |
| 2.46E+09  | 71%        | -1.49      | 2.61      |
| 2.47E+09  | 69%        | -1.62      | 2.60      |
| 2.48E+09  | 68%        | -1.70      | 2.40      |
| 2.49E+09  | 70%        | -1.53      | 2.15      |
| 2.5E+09   | 71%        | -1.46      | 2.27      |
| 5.15E+09  | 62%        | -2.08      | 3.19      |
| 5.2E+09   | 58%        | -2.34      | 2.95      |
| 5.25E+09  | 58%        | -2.34      | 2.59      |
| 5.3E+09   | 59%        | -2.27      | 3.30      |
| 5.35E+09  | 57%        | -2.41      | 3.72      |
| 5.4E+09   | 58%        | -2.38      | 3.38      |
| 5.45E+09  | 60%        | -2.22      | 3.16      |
| 5.5E+09   | 58%        | -2.35      | 3.07      |
| 5.55E+09  | 60%        | -2.25      | 2.96      |
| 5.6E+09   | 60%        | -2.22      | 3.40      |
| 5.65E+09  | 58%        | -2.34      | 3.54      |
| 5.7E+09   | 59%        | -2.30      | 3.98      |
| 5.75E+09  | 61%        | -2.13      | 3.98      |
| 5.8E+09   | 59%        | -2.26      | 4.04      |
| 5.85E+09  | 59%        | -2.33      | 3.98      |

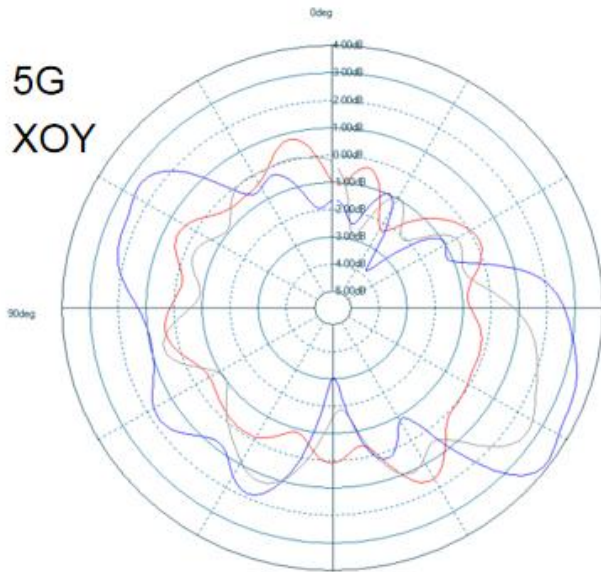


3-3 2D/3D Radiation Pattern Results

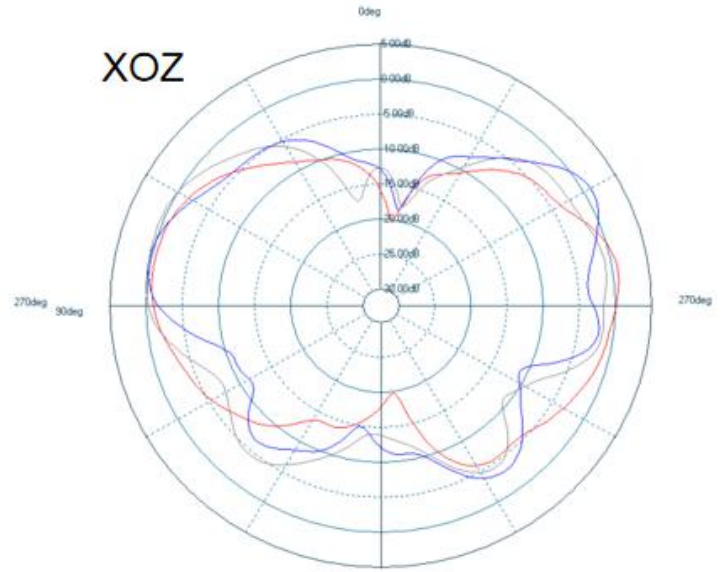




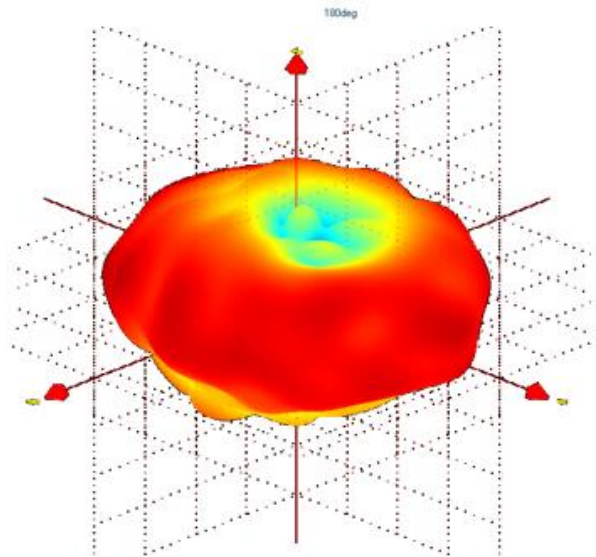
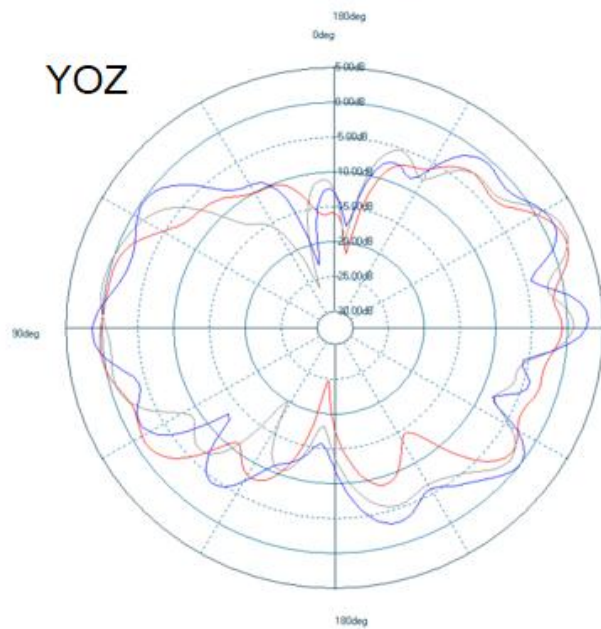
5G  
XOY



XOZ



YOZ



3-4 Environment treatment  
N/A



3. Environment Characteristic

| NO. | ITEM                                                     | TEST CONDITION                                                  | SPECIFICATION                                                                        |
|-----|----------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4-1 | High Temperature/Humidity<br>Storage Test(non operating) | 1.Temperature: +80 ±2℃<br>2.Humidity: 90~95%RH<br>3.Time: 48hrs | No material deformation is<br>allowed.                                               |
| 4-2 | Low Temperature/Humidity<br>Storage Test(non operating)  | 1.Temperature: -30±2℃<br>2.Humidity: 0%RH<br>3.Time:48hrs       | The VSWR, Gain, Radiation<br>Pattern must be met<br>specifications after these test. |

