

# 样品承认书

Sample Approved Sheet

## 合立讯（HLX-W17-R）承认书

客户名称 深圳市尊特数码有限公司

客户机型 HLX-W17-R

品 牌 合立讯自产 HLX-W17-R

合立讯 判定审核  
组

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| 制订  | 审核  | 批准  | 承认书完成时间   |
| 郭赛赛 | 黄亚飞 | 朱志国 | 2022.9.02 |

尊特（客户）判定审核组

承认书编号 承认书提供时间

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| 承认                                                                                                                                                                                            | 审核 | 批准 | 承认日期 |
| 评审项目： <input type="checkbox"/> 承认书 3 份 <input type="checkbox"/> 规格书/图纸 <input type="checkbox"/> 检测报告 <input type="checkbox"/> 样品_PCS <input type="checkbox"/> 安规 <input type="checkbox"/> HSF |    |    |      |
| 评审结果： <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受 <input type="checkbox"/> 拒绝                                                                                                  |    |    |      |

| 项次 | 日期          | 版次 | 修订说明 | 备注 |
|----|-------------|----|------|----|
| 1  | 2022. 9. 02 | A0 | 首次发行 |    |
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## 1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **HLX-W17-R**. The **HLX-W17-R** antenna is a **BT** Band . The antenna Picture and assembly are shown below.



## 2. 天线测试设备简介

### Antenna Test Equipment Introduction

测试天线输入特性使用 Agilent E5071C and Agilent 5071C 矢量网络分析仪；辐射特性利用 ETS 三维近场暗室进行测试，并分别使用 CMW500 和 Agilent 5071C 进行了分析。暗房的测试坐标如下：

Test of antenna input characteristics using Agilent E5071C and Agilent 5071C vector network analyzer; The radiation pattern of the antenna are tested using the ETS starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

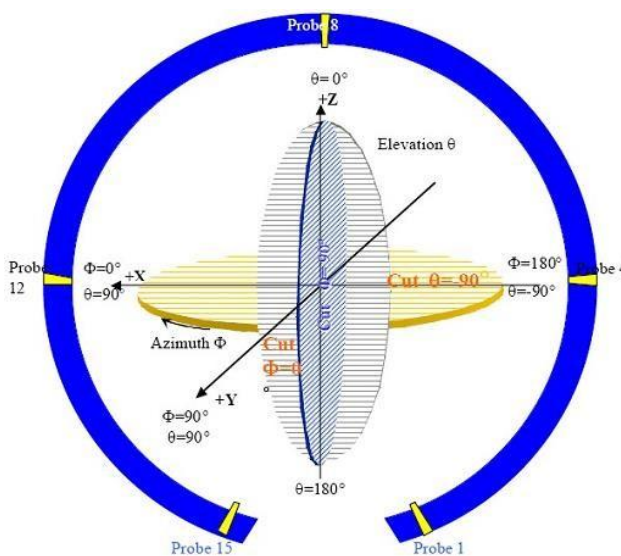


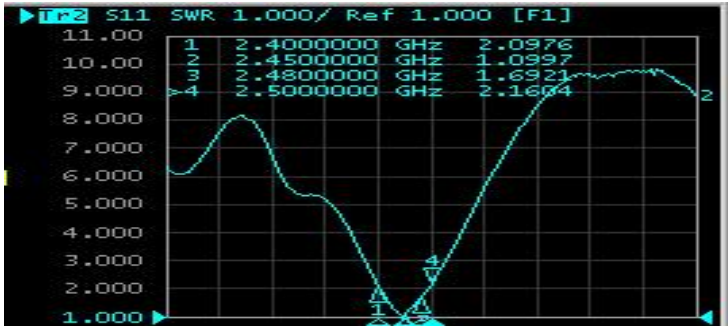
图 4 3D 微波暗室测试坐标系 (back view)

## 3. Electrical Specification

### 3-2 Passive S11 parameter

Measuring Method is a 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

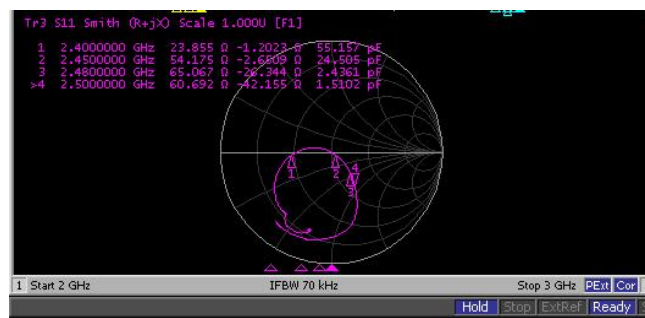
## S11 Parameter-VSWR



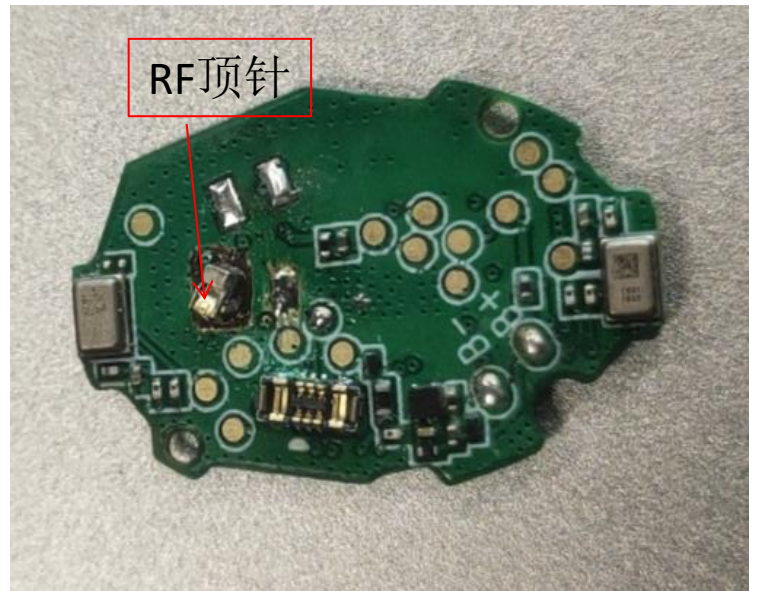
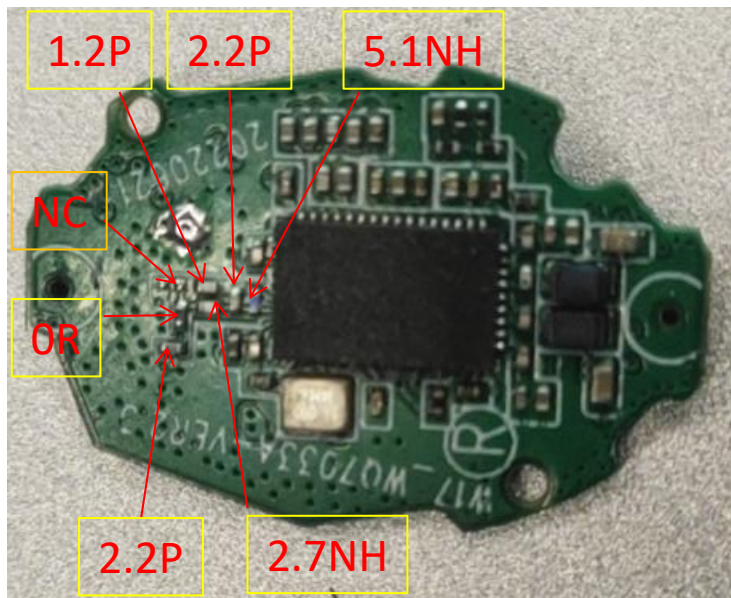
## S11 Parameter-Log Mag



## S11 Parameter-Smith



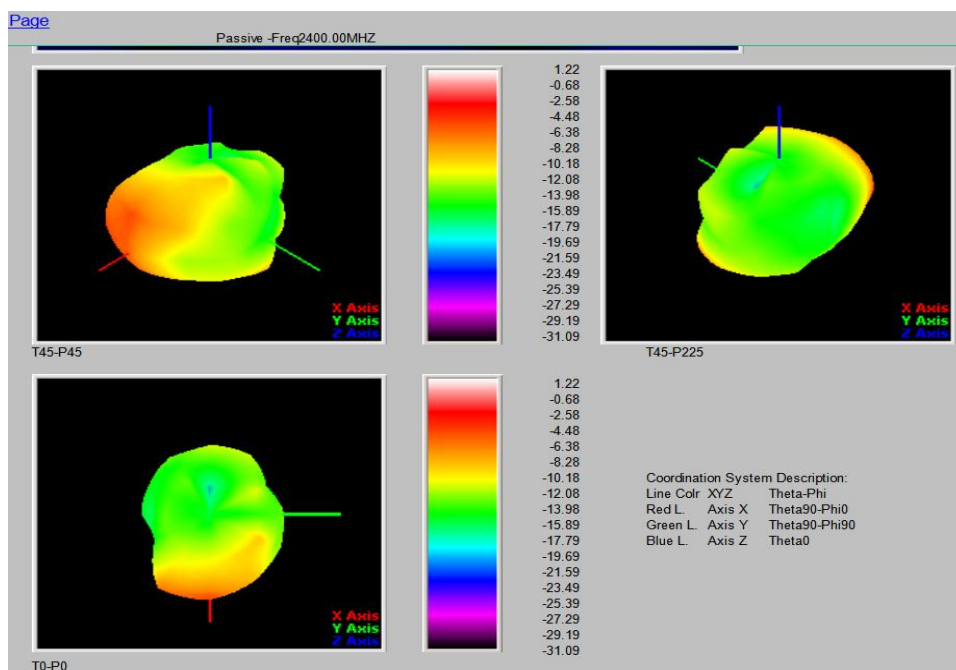
## 3-3 Antenna Matching Network



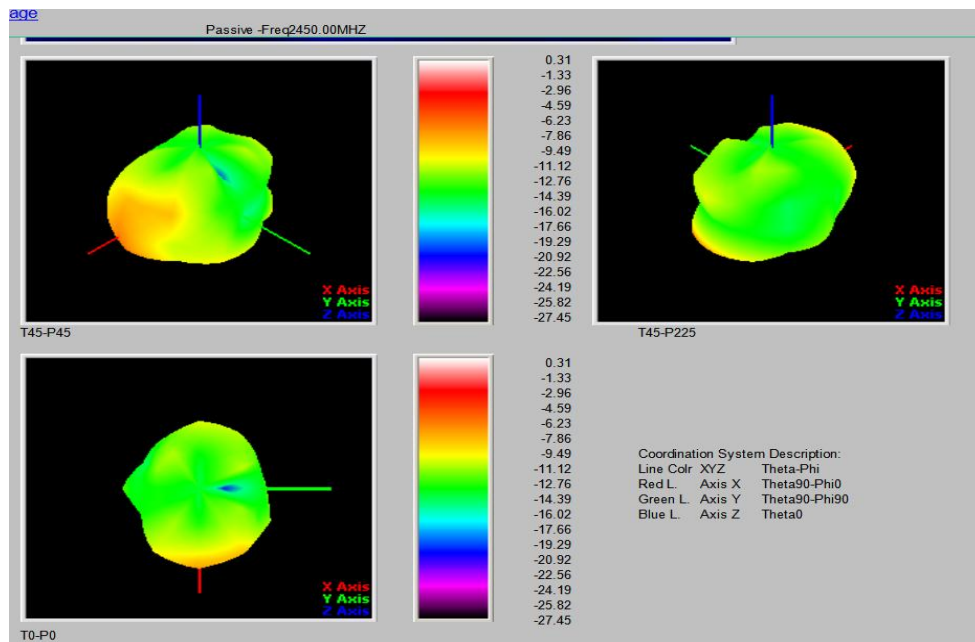
## Gain & Efficiency——**ANT**

| Frequency (MHz) | Efficiency (%) | Peak GAIN (dBi) |
|-----------------|----------------|-----------------|
| 2400            | 20.56%         | -2.46           |
| 2410            | 21.19%         | -2.35           |
| 2420            | 22.08%         | -2.52           |
| 2430            | 24.87%         | -1.66           |
| 2440            | 25.45%         | -1.78           |
| 2450            | 26.31%         | -1.08           |
| 2460            | 25.02%         | -1.20           |
| 2470            | 24.76%         | -1.66           |
| 2480            | 22.85%         | -1.57           |

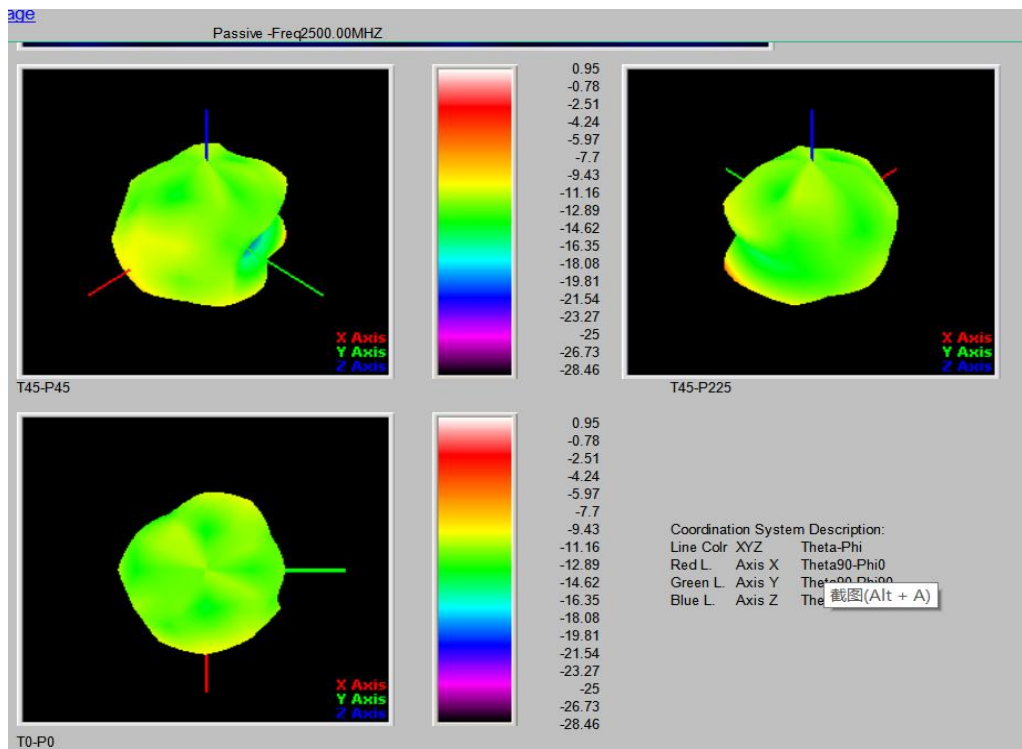
## 2D Pattern——BT ANT



## 2D Pattern——BT ANT



## 2D Pattern——BT ANT



4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8

