



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

# 规格承认书

## SPECIFICATION FOR APPROVAL

日期  
Date

2024/01/08

编号  
File No

24010801

版本  
Revision

1.0

客户  
CUSTOMER:

东莞市宏易电子有限公司

客户料号  
CUSTOMER NO:

60100052

品名  
PART NAME:

FPC Antenna  
FPC+1.13银锡灰色线L=230mm

供方料号  
SUPPLIER NO:

YJL01.011.004.301A

送样日期Date:

送样数量Q'TY:

### 客户确认CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

### 供方确认 SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

ChenGuoqiang

XieLi

ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086  
Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City



# 天线规格

## Antenna Specification

### Electrical Properties

|              |                      |
|--------------|----------------------|
| Frequency    | 2400-2500MHz         |
| Impedance    | 50 Ohm Nominal       |
| V.S.W.R      | 2.0 Max@2400-2500MHz |
| Gain         | 2.4 dBi@2400-2500MHz |
| Radiation    | Omni-directional     |
| Polarization | Linear               |

### Physical Properties

|                         |               |
|-------------------------|---------------|
| Connector               | 1代IPEX        |
| Cable Type              | O.D.1.13mm    |
| Cable Length            | 230mm         |
| Cable Color             | Gray          |
| Operating Temp.         | -40 ~ +85 °C  |
| Storage Temp / Humidity | 25±5°C / <70% |



天线测试仪器 / 校准日期 (E5071B / 2023.09.12)

# 校准证书

## CALIBRATION CERTIFICATE

证书编号: HX2309CC015006  
Certificate No.



|                     |                     |                                |            |
|---------------------|---------------------|--------------------------------|------------|
| 委托方<br>Client       | 东莞市一佳电子通讯科技有限公司     |                                |            |
| 委托方地址<br>Address    | 东莞市长安镇沙头社区木鱼路59号3号楼 |                                |            |
| 仪器名称<br>Description | 网络分析仪               |                                |            |
| 型号/规格<br>Model/Type | E5071B              |                                |            |
| 制造厂<br>Manufacturer | Agilent             |                                |            |
| 出厂编号<br>Serial No.  | /                   | 接收日期<br>Receive Date           | 2023-09-12 |
| 管理编号<br>Asset No.   | YJ-PD-002           | 校准日期<br>Calibration Date       | 2023-09-12 |
| 结论<br>Conclusion    | 所校准项目合格             | 建议复校日期<br>Suggested Recal Date | 2024-09-11 |

批准  
Approved by 吕波 吕波

核验  
Inspected by 莫万锋 莫万锋

校准  
Calibrated by 夏磊磊 夏磊磊

职务  
Position 技术负责人

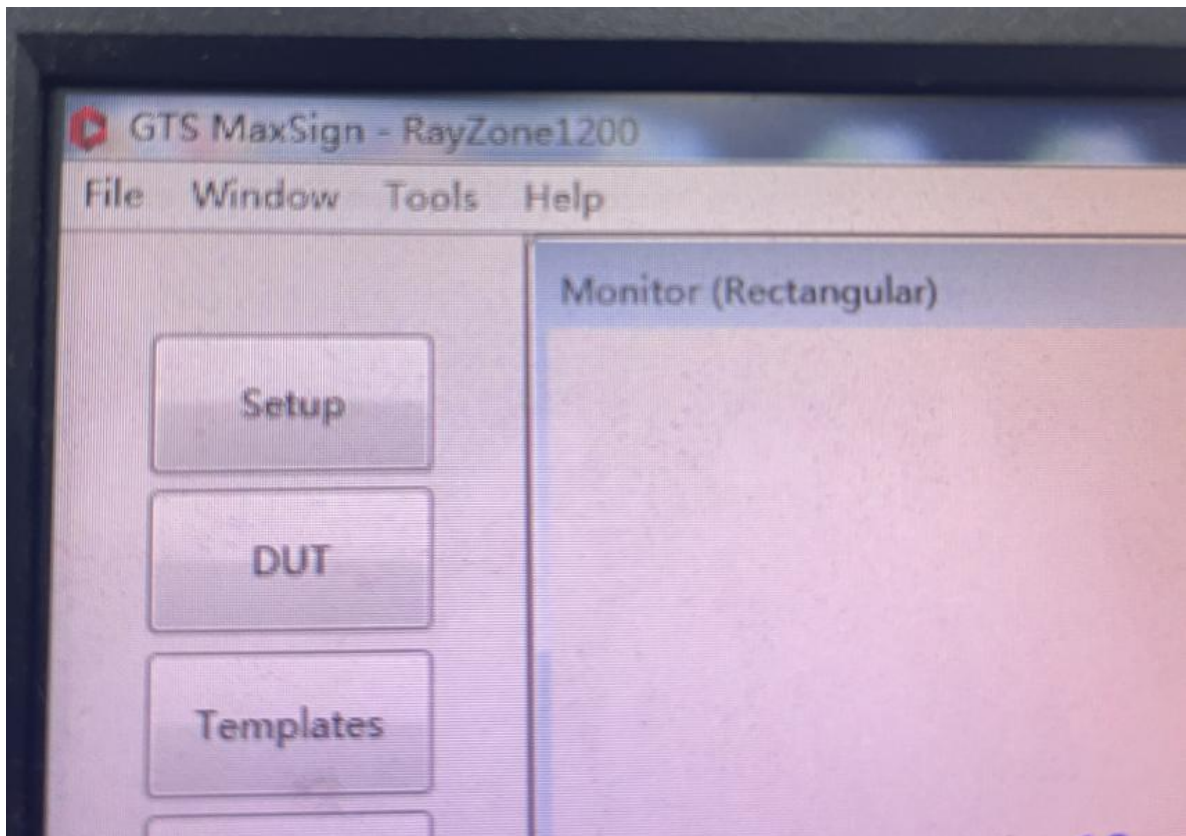


计量校准机构备案证书号 (Register No.): 粤校备2017B016  
地址: 广东省深圳市宝安区燕罗街道塘下涌社区致和路12号广盛大厦201  
Address: No.201, Guangsheng Building, No. 12, Zhihe Road, Tangxiayong Community Ercun, Yanluo Street, Bao'an District, Shenzhen, Guangdong, China  
电话Tel: 0755-8525 9375 电子邮件Email: hxjljc@yeah.net  
传真Fax: 0755-8525 9376 邮编Post Code: 518035

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

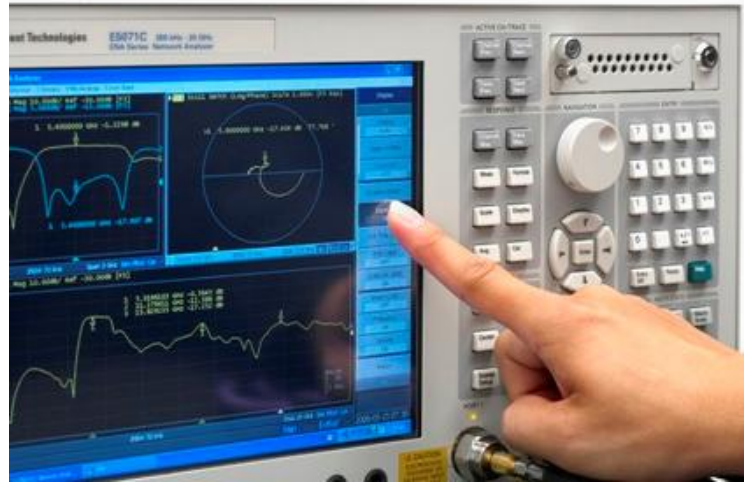


## 测试软件(GTS MaxSign-RayZone1200)

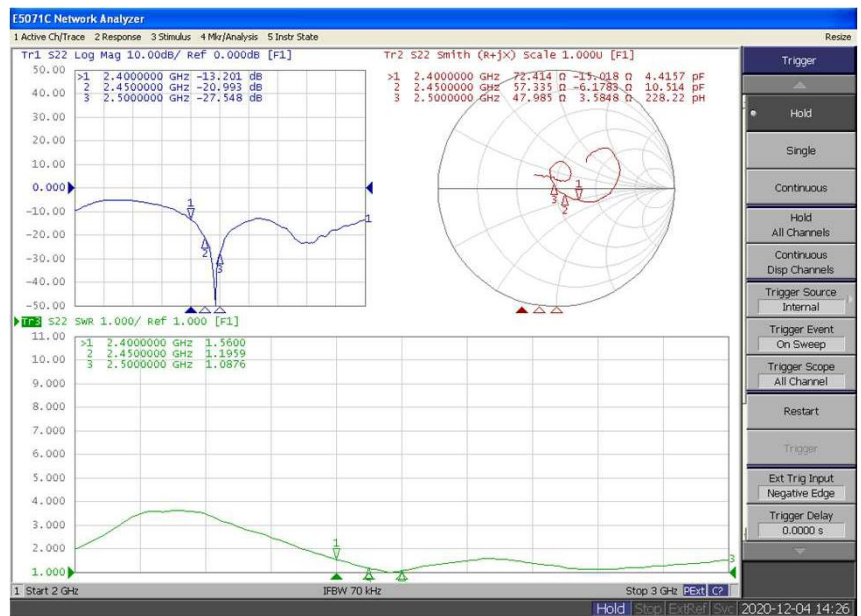




## Agilent E5071B



## S Parameter Test // BT Antenna





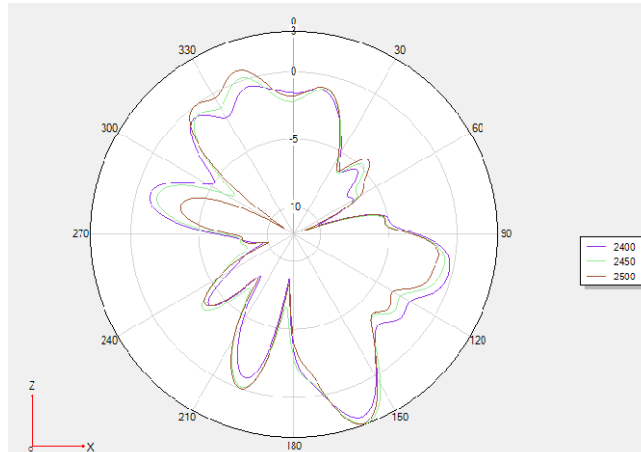
### Passive Test For BT Antenna(2.4G)

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 60.5        | -2.1         | 2.0           |
| 2410          | 60.8        | -2.1         | 2.1           |
| 2420          | 59.5        | -2.2         | 1.7           |
| 2430          | 61.6        | -2.1         | 2.0           |
| 2440          | 62.2        | -2.0         | 1.9           |
| 2450          | 62.6        | -2.0         | 2.1           |
| 2460          | 60.3        | -2.1         | 1.9           |
| 2470          | 65.4        | -1.8         | 2.4           |
| 2480          | 63.9        | -1.9         | 2.4           |
| 2490          | 63.6        | -1.9         | 2.2           |
| 2500          | 61.3        | -2.1         | 1.9           |

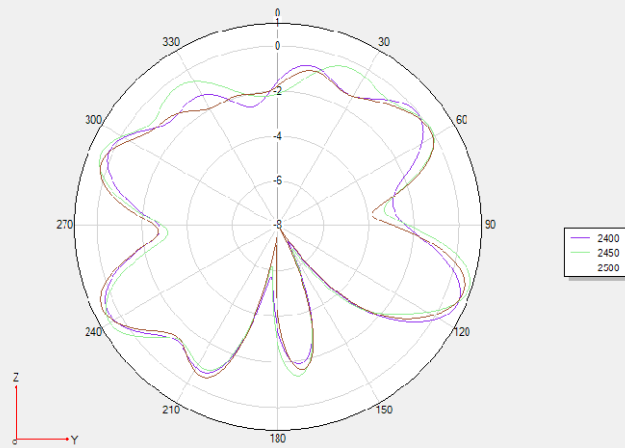


## Radiation Pattern For BT Antenna

**Phi 0°**



**Phi 90°**



**Theta 90°**

