



# 深圳市凯普深通讯科技有限公司

Shenzhen Kaipushen Communication Technology Co., Ltd

## 天线调试报告

Antenna debugging report

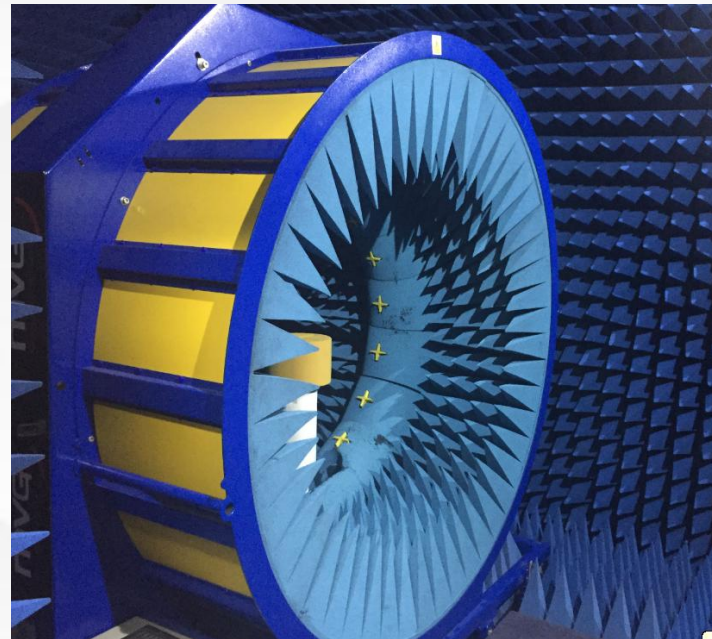
客户customer: 乐戴  
项目project : X1  
射频RF: 谷工Gu Gong  
日期Date: 2024.02.27  
版本Edition: V01



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# 实验室测试环境及设备

## Laboratory testing environment and equipment



测试项目 Test items	测试设备 Test equipment
S11、S12、VSWR、LOSS	网络分析仪network analyzerE5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16暗室darkroom、GP7*4*3暗室 darkroom、E5071B
TRP、TIS	Satimo SG16暗室darkroom、GP7*4*3暗室 darkroom、8960、CMW500、MT8820C、 E4438C、



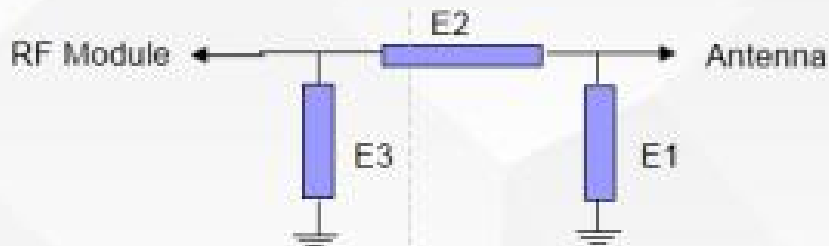
# 项目调试简介

## A Brief Introduction to debugging the project

<b>整机类型</b> Machine type	手表 Wrist watch			
		<b>频段信息</b> Frequency band information	<b>天线形式</b> Antenna form	<b>匹配改动</b> Matching changes
<b>天线种类及频段信息</b> Antenna type and frequency band information	<b>天线</b> Antenna	蓝牙Bluetooth	PIFA	否 NO
<b>天线材质</b> Antenna material	FPC			

# BT天线匹配电路

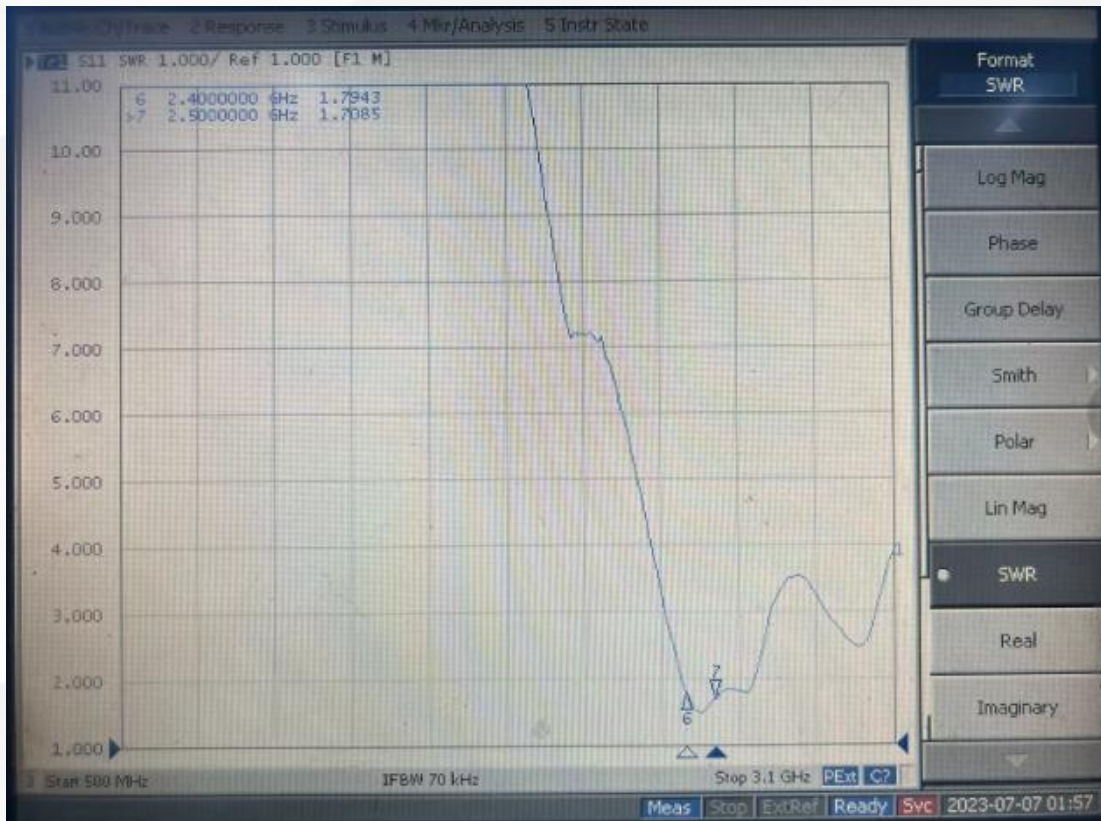
## BT antenna matching circuit



	Element	Value	
手表	E1(0201)		贵司原有匹配
	E2(0201)		
	E3(0201)		

# BT天线 SWR 图

## BT antenna SWR diagram





# BT 天线无源效率

## Passive efficiency of BT antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	7.06	-11.51	-7.25
2410	6.78	-11.69	-7.32
2420	7.27	-11.38	-7.13
2430	6.9	-11.61	-7.48
2440	7.28	-11.38	-7.22
2450	7.23	-11.41	-7.08
2460	7.05	-11.52	-6.94
2470	6.01	-12.21	-7.41
2480	6.67	-11.76	-6.75

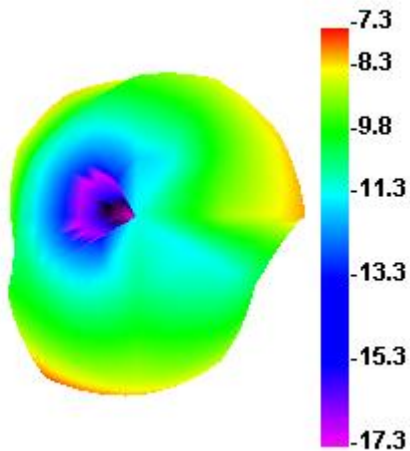


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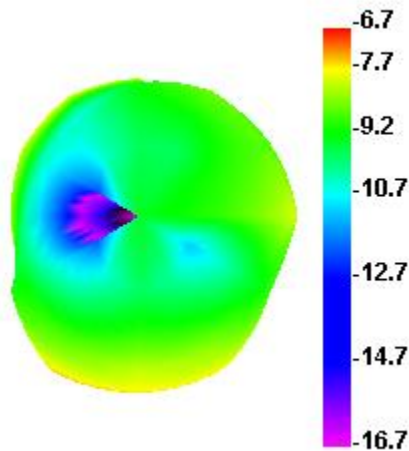
# BT 天线方向图

## BT antenna pattern

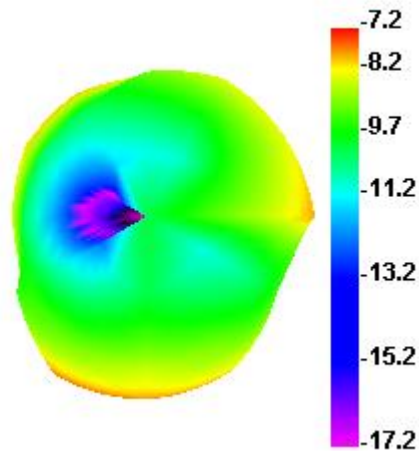
2400.000MHz



2480.000MHz

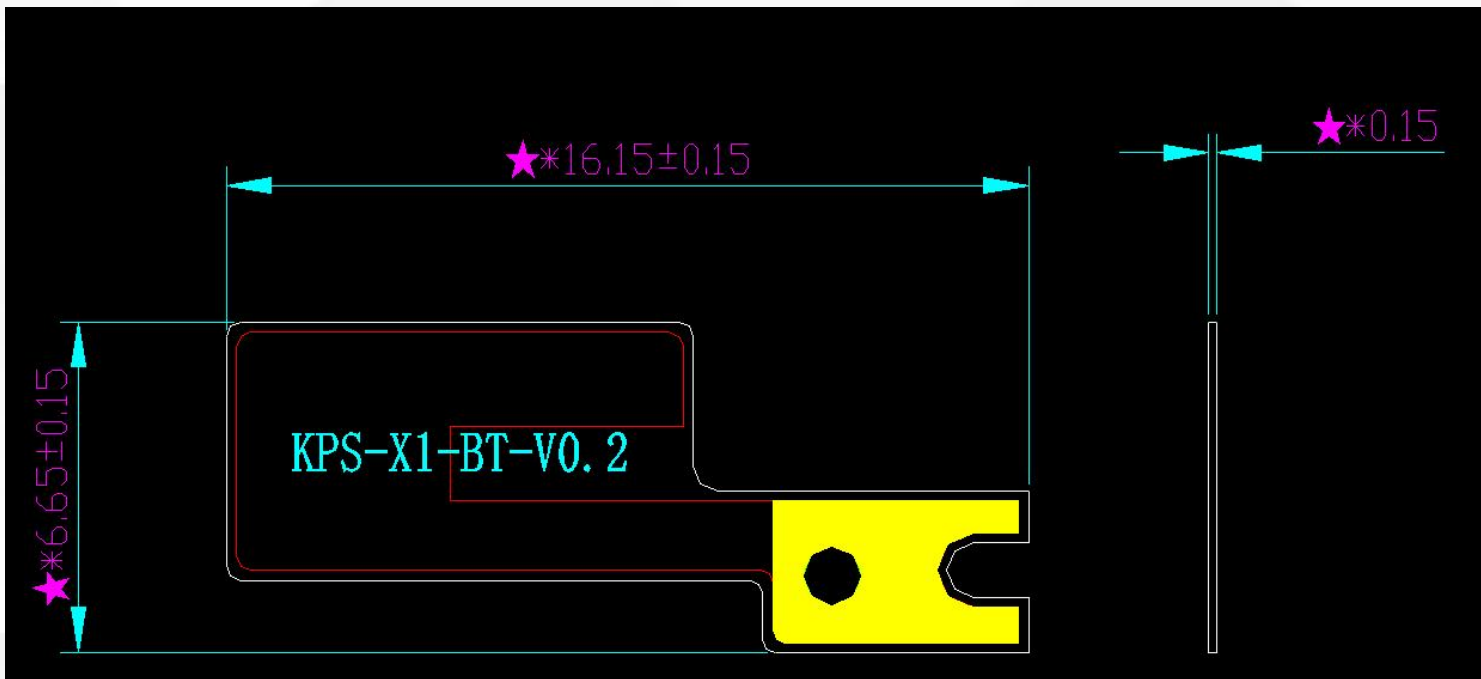


2440.000MHz



# 天线规格尺寸

## Antenna size and specification







# 联系方式

## Contact information

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**THE END**

**感谢您的宝贵意见！  
Thank you for your  
valuable feedback !**