



深圳市国质信网络通讯有限公司
ShenZhen NQI network communication ltd

Antenna Test Report

生产供应商: 国质信 (NQI)

Supplier

适用项目: M2S-F6

Type/Spec

品 牌: NQI

Brand

送样日期: 2022/12/25

Send out Date

承认日期:

Approve Date

物料名称: BT 天线 (BT antenna)

Parts Name

NQI 料号: NQI-M2S-BT-FB-V7

Parts No

客户料号: 1000055944

Quantity

文件编号: NQI-RD-SPEC-20230208

Document No

样品版本: V7

Version

Version: V1

Customer	倍思	Project	M2S
Band	BT	Color	
Issued by	周鹏	Checked by	
Confirmed by		Date	2023.01.03

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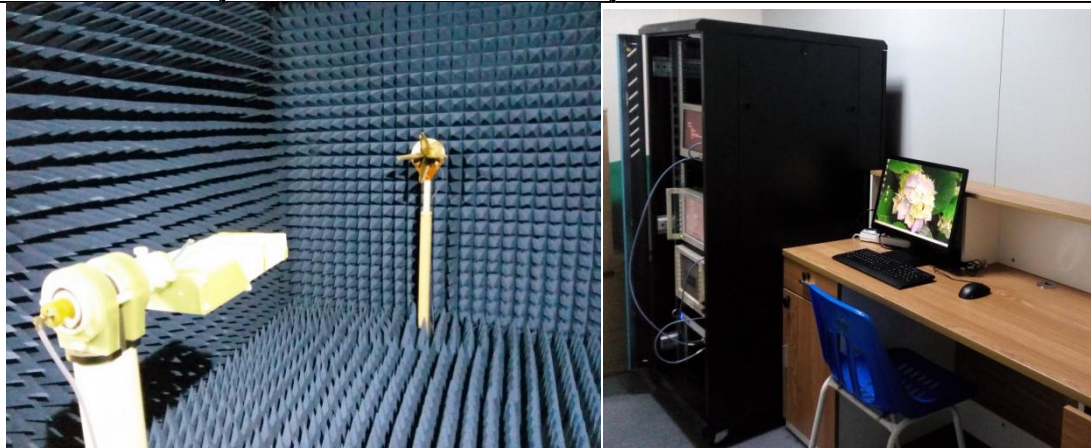


调试履历表 (Resume)

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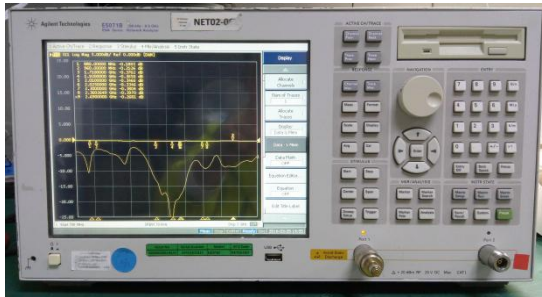
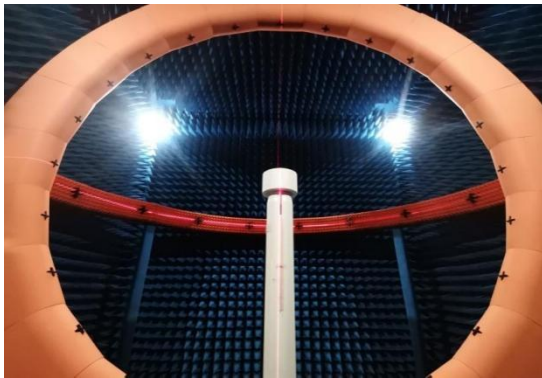
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	测试项目	设备
1. S 参数	1. 回波损耗(RL) 2. 驻波比 (VSWR)	网络分析仪: Agilent E5071B RS ZVB8
2. 耦合测试 coupling testing	1. 发射功率 (MAX Power) 2. 接收灵敏度 (MIN Sens)	1.2G/3G 测试设备: Agilent 8960 2. 微波暗室: 广屏 ETS 3D Chamber (5x3x3)
3. 3D 无源测试 (Passive Test)	1. 效率 (η) 2. 增益 (Gain) 3.辐射方向图	1. 微波暗室: TEM24 3D Chamber (5x5x5) 广屏 ETS 3D Chamber (5x3x3) 2. 网络分析仪: Agilent E5071B
4.3D 有源测试 (Active Test)	1. 3D 功率 (TRP) 2. 3D 灵敏度 (TIS) 3.吞吐测试 4.人头手测试 5.人头耳测试	1. 微波暗室: TEM24 3D Chamber (5x5x5) 广屏 ETS 3D Chamber (5x3x3) 2.2G/3G 测试设备: Agilent 8960 3.4G 测试设备: 安立 MT8820C/CMW500 4.WIFI/BT/NB-iot 测试设备: CMW500 5. 5G 测试设备: 星河亮点 SP9500-CTS





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二. Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

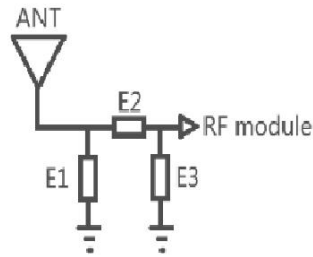
三. Cell-Phone Photo and Dealing Method



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四. 匹配电路match circuit

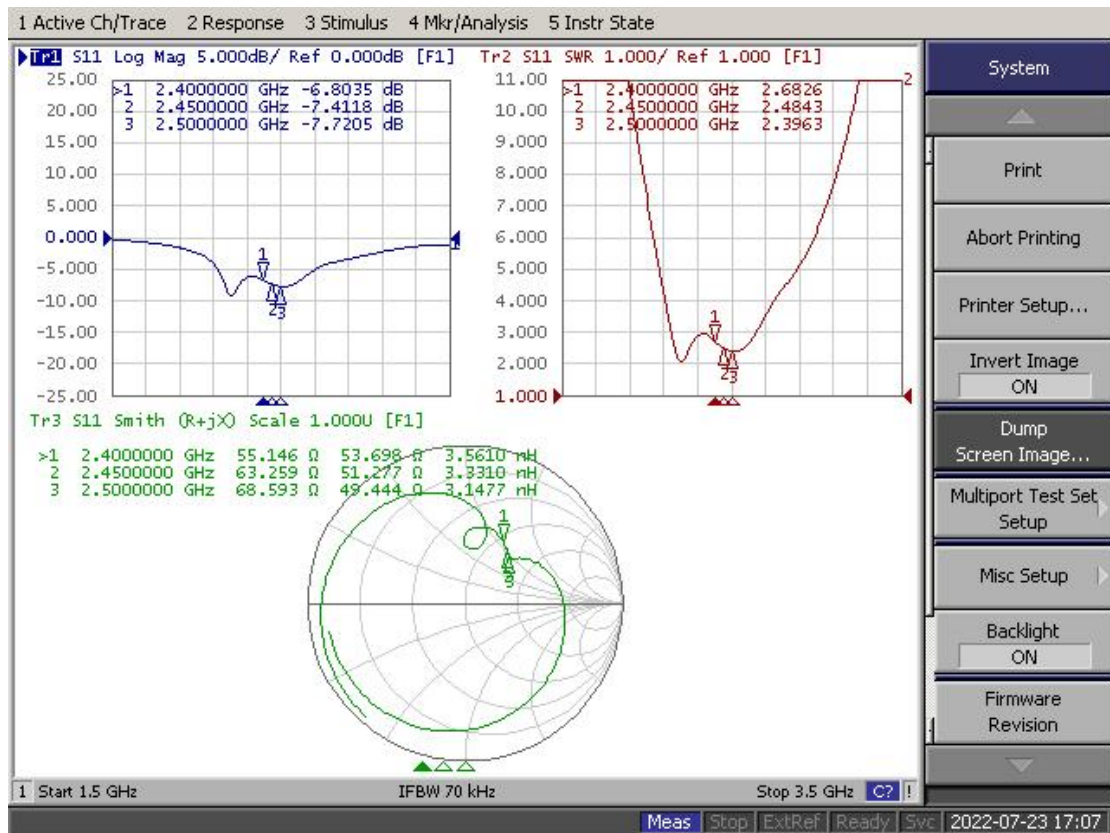


Element	L (Value)	R (Value)
E1(0201)	NF	NF
E2(0201)	0 Ω	0 Ω
E3(0201)	NF	NF

五. 无源测试Passive Test

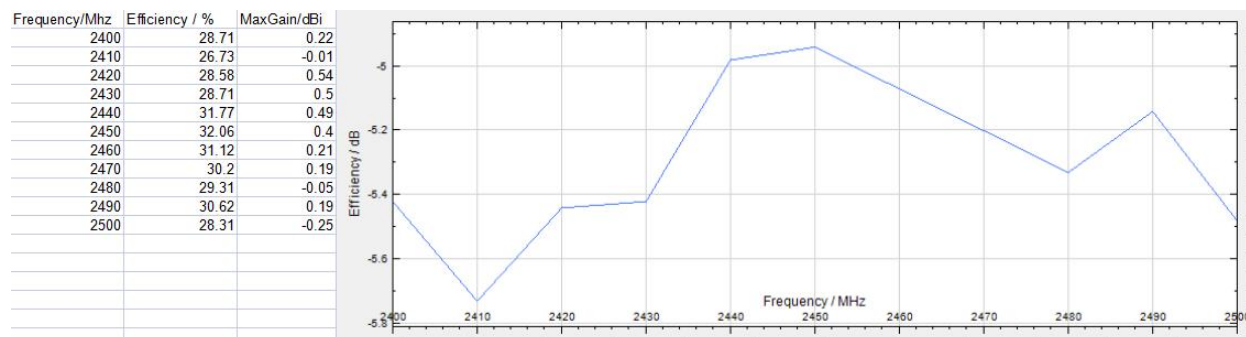
5.1 回波损耗/驻波比/史密斯图圆

Return loss/standing wave ratio/Smith chart

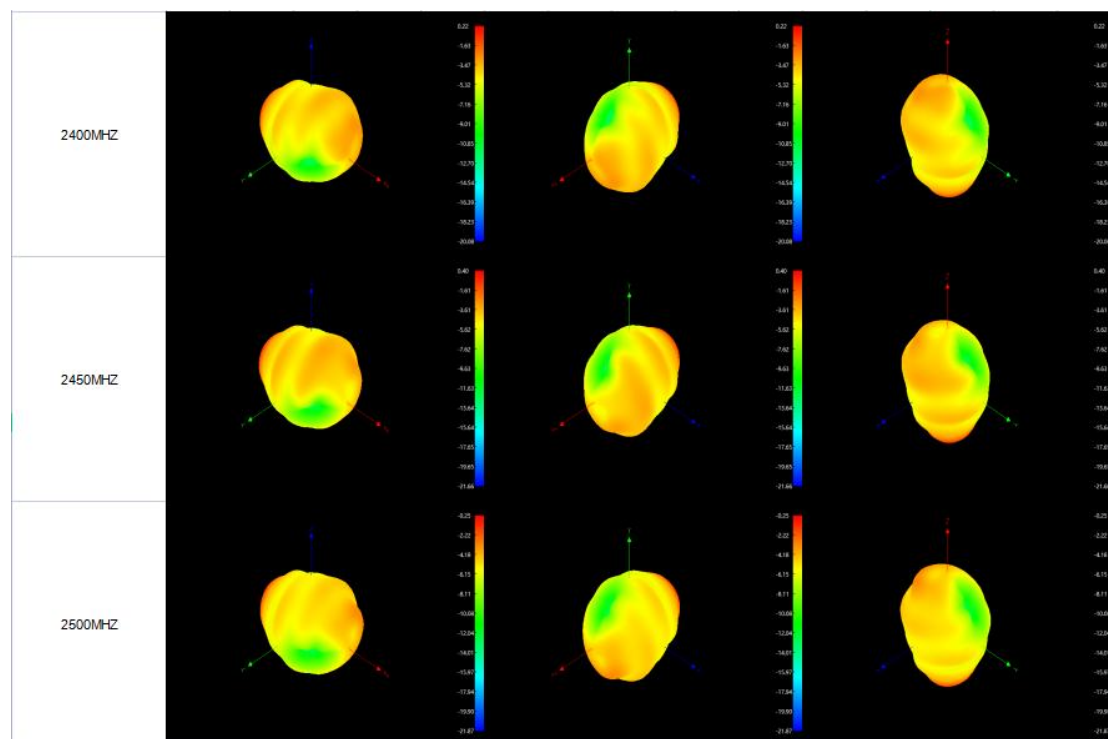




5.2 效率&增益Efficiency & Gain



5.3 3D 方向图3DDirection diagram



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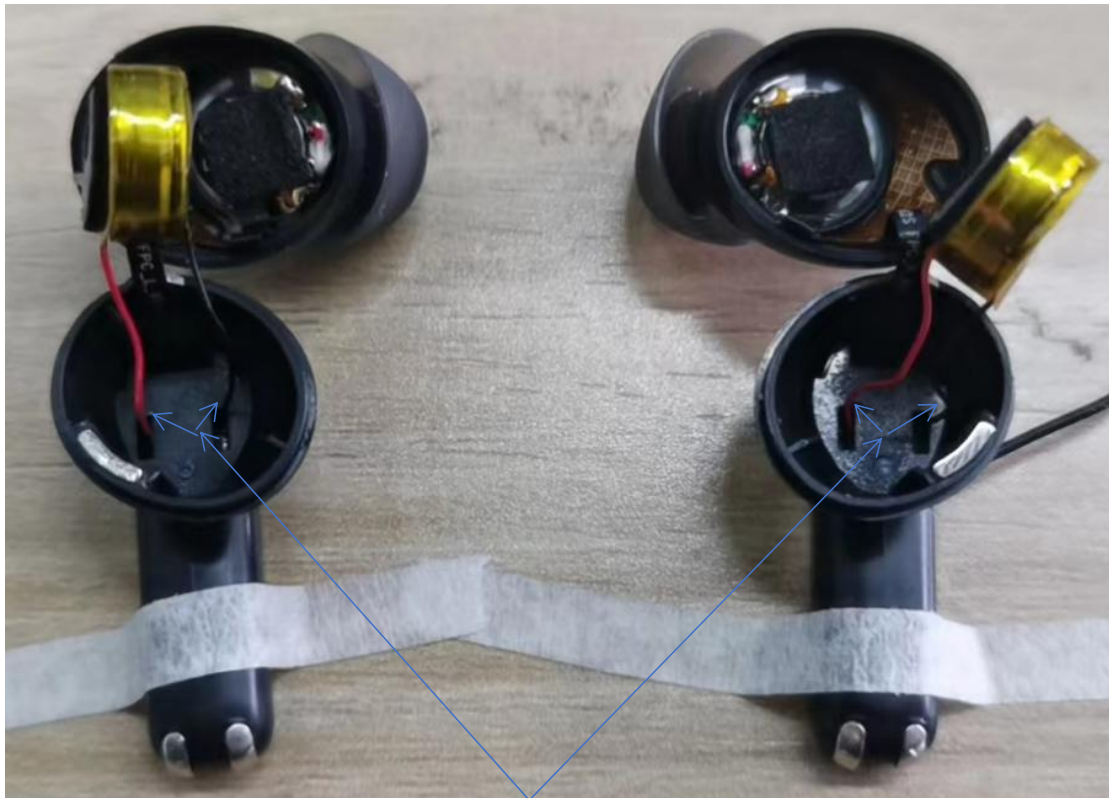
六. TRP&TIS

NQI ANT TRP&TIS parameter Summary of M2S				
自由空间 free space	Test	Bluetooth TRP		
	Result	0	39	78
R	TRP (dBm)	2.27	2.64	2.43
	TIS (dBm)	-84.83	-84.53	-84.41
L	TRP (dBm)	2.88	2.44	2.19
	TIS (dBm)	-84.98	-85.07	-85.31
NQI ANT TRP&TIS parameter Summary of M2S				
二代头耳模	Test	Bluetooth TRP		
	Result	0	39	78
R	TRP (dBm)	-5.82	-5.4	-4.76
	TIS (dBm)	-77.24	-78.16	-78.76
L	TRP (dBm)	-5.23	-4.49	-4.08
	TIS (dBm)	-78.39	-78.93	-77.91

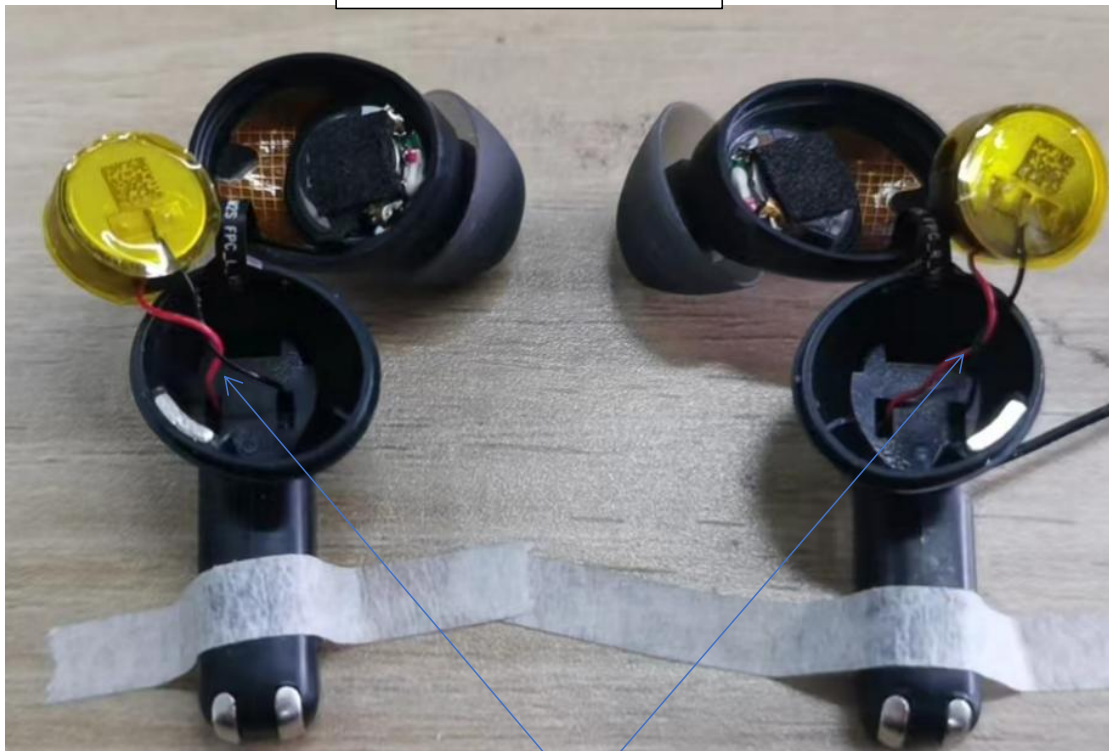
七. 装配方式 the way of assembly



电池边缘出线 15mm
The edge of the battery exits 15mm



电池红黑线如图穿孔，拉出
主板下多余的电池线到前腔



电池红黑线绞线 1 圈



绞线一圈后, 电池负极面扣向主板面, 且出线方向如图。



八.天线结构图纸 (Antenna structure drawing) :

