



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

Antenna Test Report

For

Project BT0719

Version:

Customer	联欣宏	Project	BT0719
Band	BT	Color	
Issued by	罗工	Checked by	
Confirmed by		Date	2024.7.31

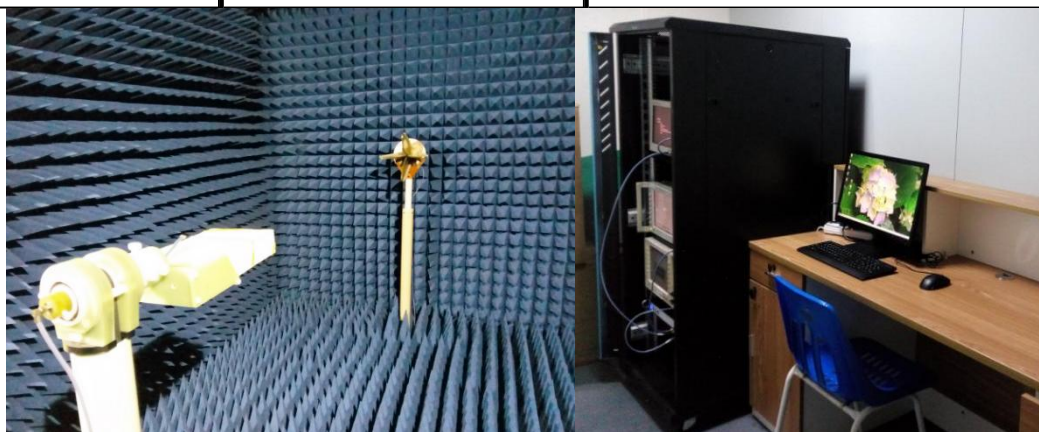
一. Test Instrumentation and item(测试设备及项目)

类别 (Class)	测试项目 (Test item)	设备 (Equipment)
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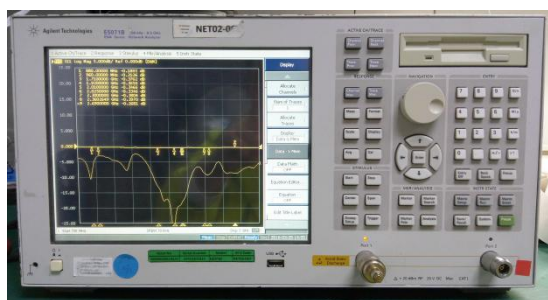


1. S parameter	1. 回波损耗(RL) 2. 驻波比 (VSWR) 3.斯密斯原图(Smith chart)	网分 (VNA) : Agilent E5071B R&S ZVB8 Protek A333
2. 耦合测试 (Coupling testing)	1. 发射功率 (MAX Power) 2. 接收灵敏度 (MIN Sens)	1.2G/3G Tester: Agilent 8960 2.The coupling box: TESCOM TC-5060A 3. 3D Chamber: ETS 3D Chamber (5x3x3)
3. 3D 无源测试 (Passive Test)	1. 效率 (Effeciency) 2. 增益 (Gain) 3.辐射方向图 (radiation pattern)	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2. 网分 (VNA) : Agilent E5071B R&S ZVB8
4.3D 有源测试 (Active Test)	1. 3D 功率 (TRP) 2. 3D 灵敏度 (TIS) 3.吞吐率 (Throughput rate)	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2.2G/3G Tester: Agilent 8960 3.4G Tester: MT8820C/CMW500 4.WIFI/BT/NB-iot Tester: CMW500 5. 5G Tester: SP9500-CTS 6.Head: HEAD-P10 (FACE-P10)

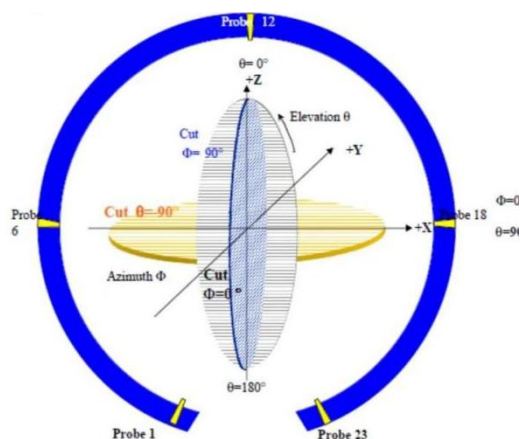
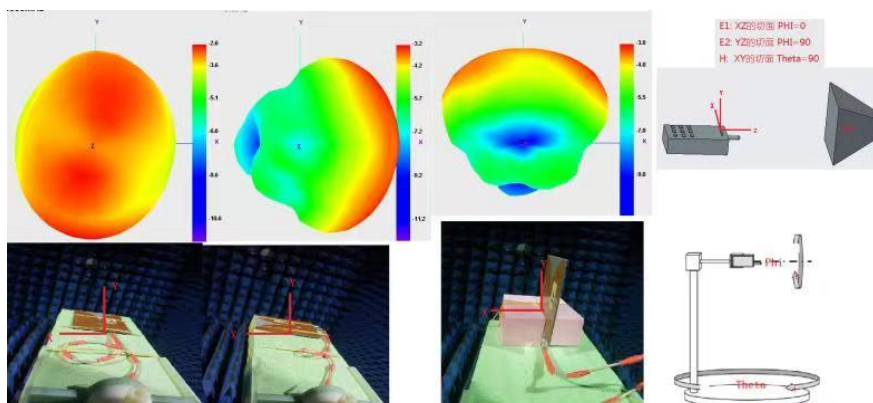




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二. Chamber coordinate axis (暗室坐标)



三. Definitions (定义)

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VSWR: Voltage Standing Wave Rate

RL: Return loss

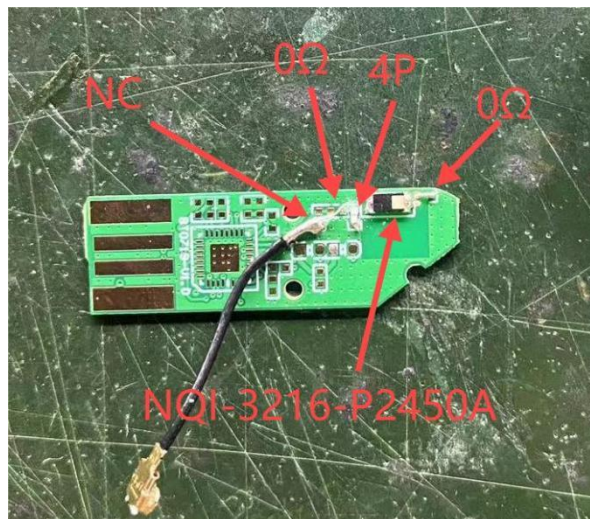
TRP: total radiated power

TIS: total isotropic sensitivity

四. Cell-Phone Photo and Dealing Method (手机图片及环境处理)

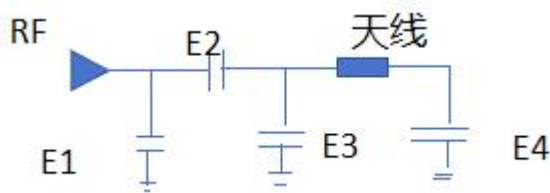


五. Matching Circuit Description (匹配描述)



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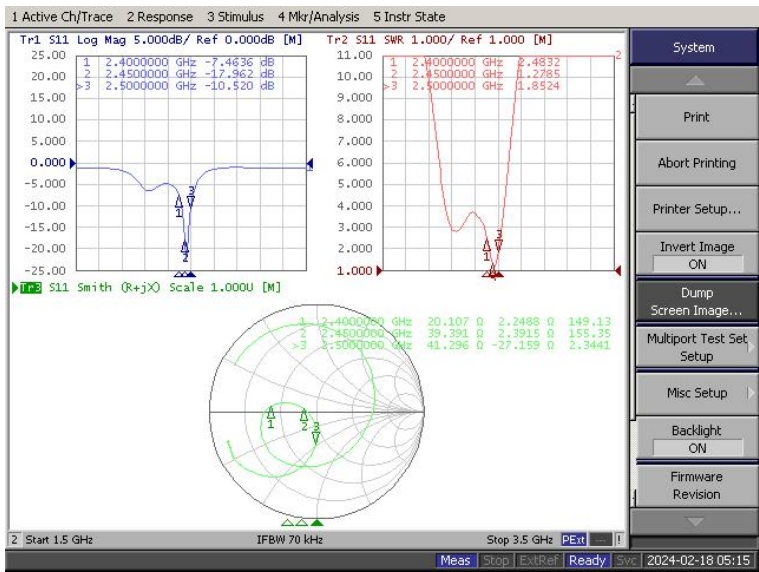
匹配电路



Element	Value
E1(0201)	NC
E2(0201)	0 Ω
E3(0201)	4P
E4(0201)	0 Ω

六. Passive Test (无源测试)

6.1. RL/VSWR (回波损耗/驻波比)

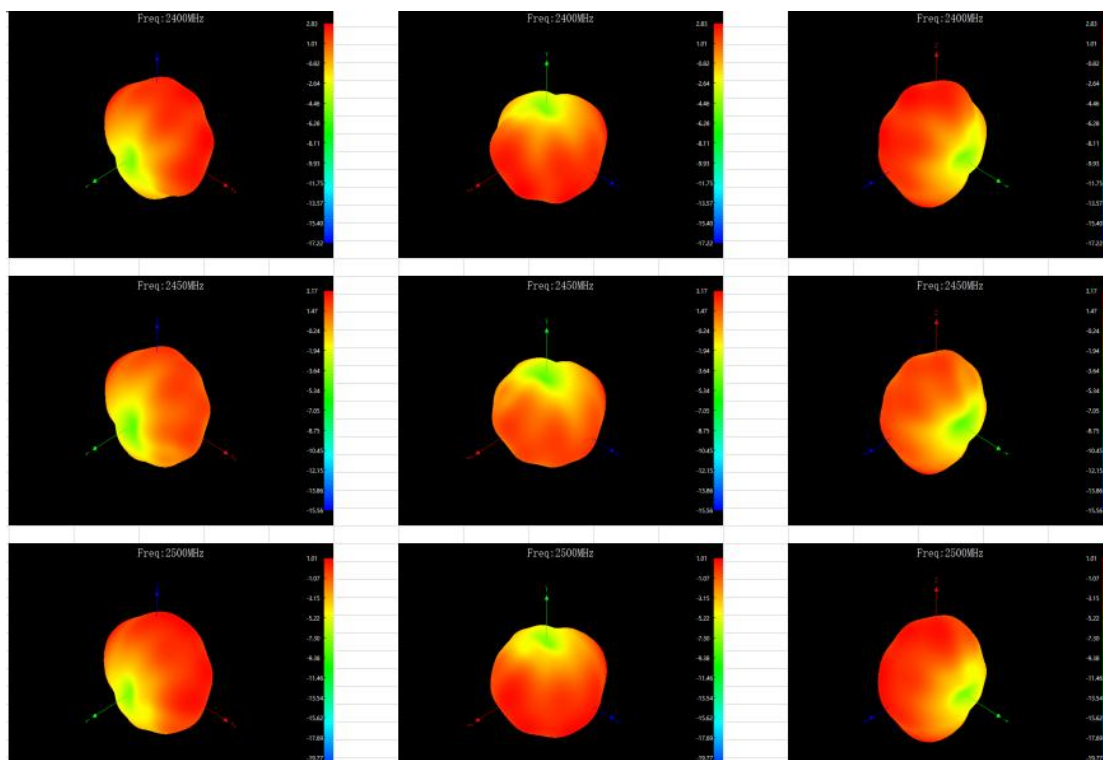


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6.2.Effeciency、Gain、 Radiation pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	66.61	2.83
2410	66.99	2.56
2420	67.61	2.43
2430	65.61	2.25
2440	68.23	2.55
2450	69.02	3.17
2460	69.11	3.38
2470	69.79	3.31
2480	63.39	2.39
2490	57.81	2.04
2500	55	1.51



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七 Antenna

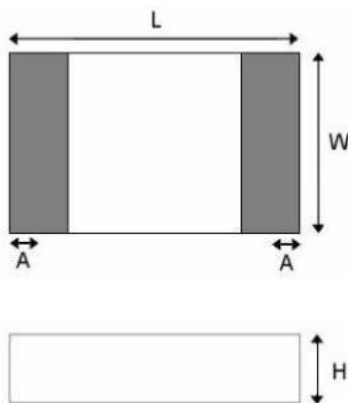
1. Operating frequency

Antenna Frequency for 2400-2500 MHz

2. Applications

For Miniaturized Bluetooth/WIFI System

2.1. Appearance and Dimensions(Unit : mm):



L	W	A	H
3.10±0.10	1.55±0.10	0.40±0.20	0.55±0.1



2.2. PCB Top Layout (Unit : mm)

