



深圳市国质信网络通讯有限公司

ShenZhen NQI network communication ltd

Room 103, Building 7, Kangli City, No.66 Pingji Avenue,
Shanglilang Community, Nanwan Sub?district, Longgang District,
Shenzhen, Guangdong, China

Antenna Test Report

For

Project K9

Version:

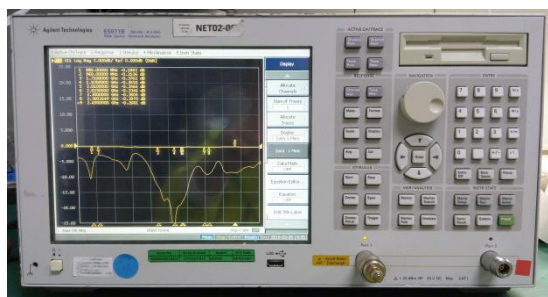
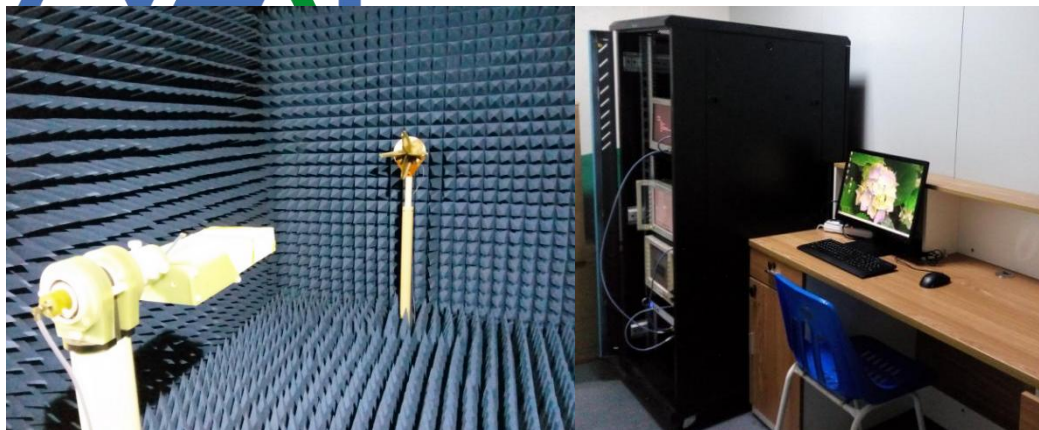
Customer	博陆科	Project	K9
Band	BT	Color	
Issued by	WWL	Checked by	
Confirmed by		Date	2025.07.03

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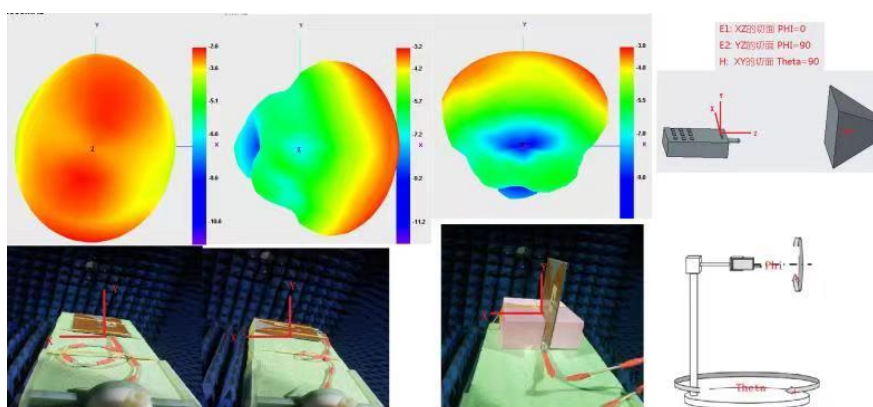


一. Test Instrumentation and item(测试设备及项目)

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



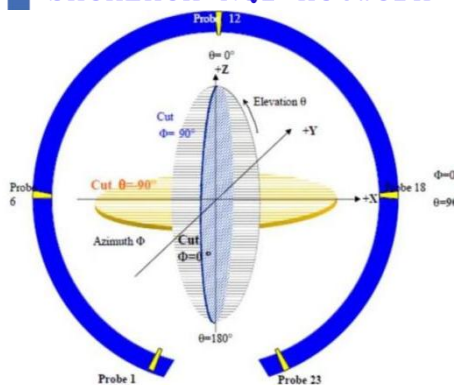
二. Chamber coordinate axis (暗室坐标)



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三. Definitions (定义)

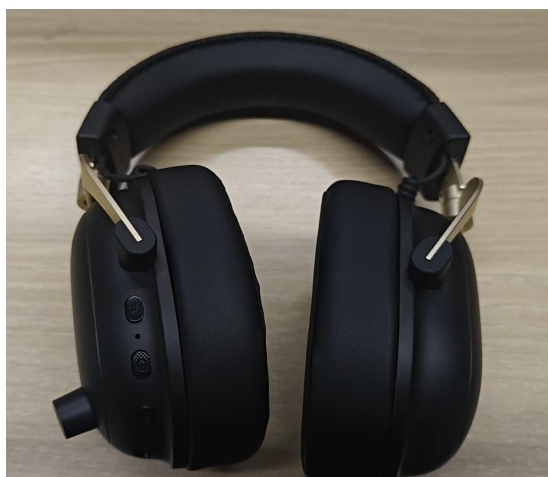
VSWR: Voltage Standing Wave Rate

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)

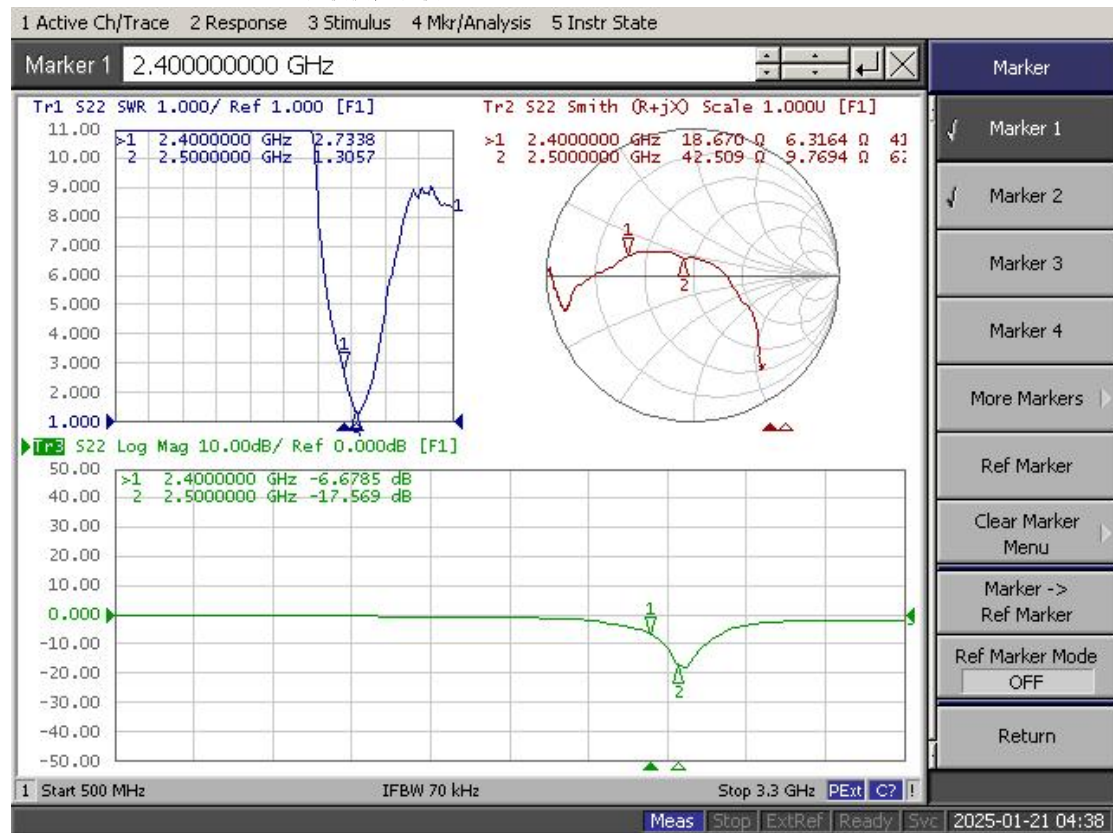
原版匹配

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六. Passive Test (无源测试)

6.1. RL/VSWR (回波损耗/驻波比)

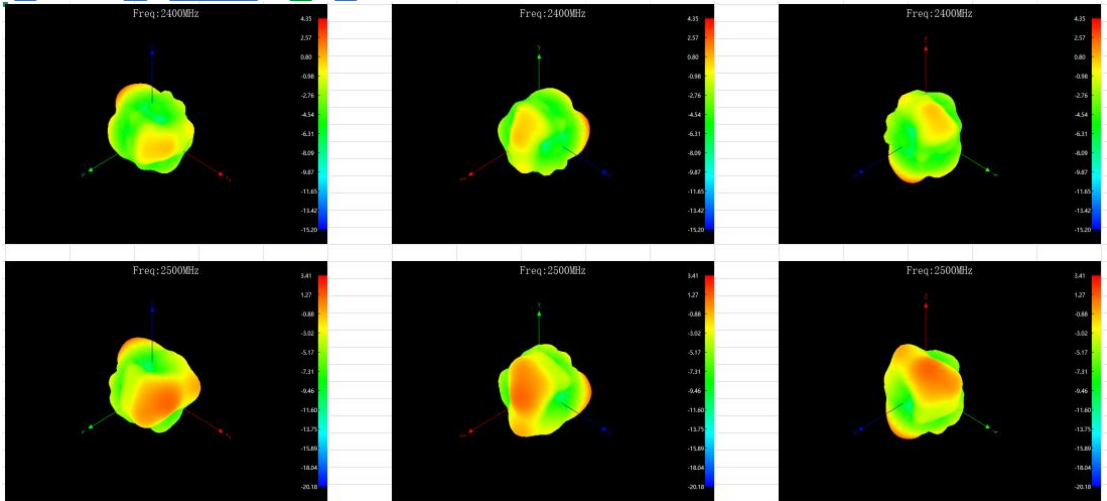


6.2. Efficiency、Gain (效率增益)

自由

Frequenc	MaxGain/	Efficiency / %
2400	4.35	38.55
2410	4.1	36.73
2420	4.27	38.19
2430	3.86	36.64
2440	3.88	38.02
2450	4.1	39.99
2460	3.95	40.64
2470	3.84	40.93
2480	3.38	37.76
2490	3.57	38.73
2500	3.41	37.76

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七. TRP&TIS

NQI ANT TRP&TIS parameter Summary of K9				
自由空间	Test	Bluetooth TRP		
	Result	0	39	78
	TRP (dBm)	5.6	5.85	6.85
	TIS (dBm)	-89.49	-89.27	-90.79
NQI ANT TRP&TIS parameter Summary of K9				
二代头耳模	Test	Bluetooth TRP		
	Result	0	39	78
	TRP (dBm)	5.81	5.86	6.92
	TIS (dBm)	-89.64	-89.69	-90.9

