

Antenna Test Report

For

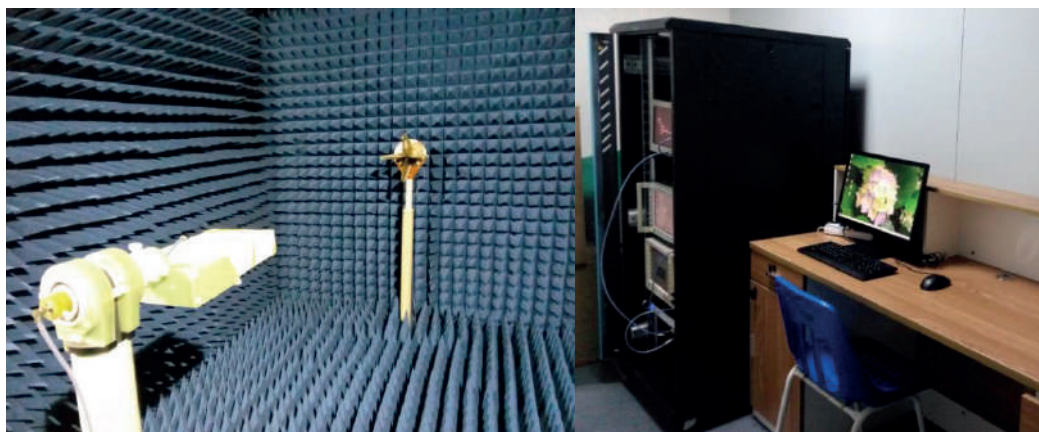
Project BP69SC

Version: V1

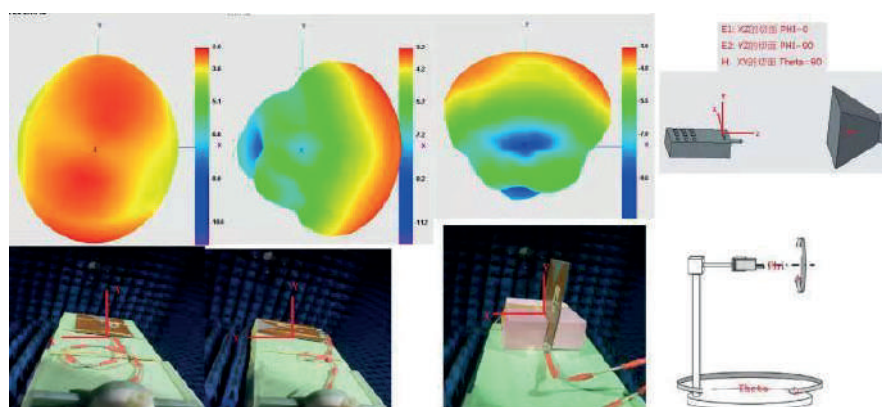
Customer	联雅	Project	BP69SC
Band	BLE	Color	
Issued by	阳工	Checked by	
Confirmed by		Date	2026.5.12

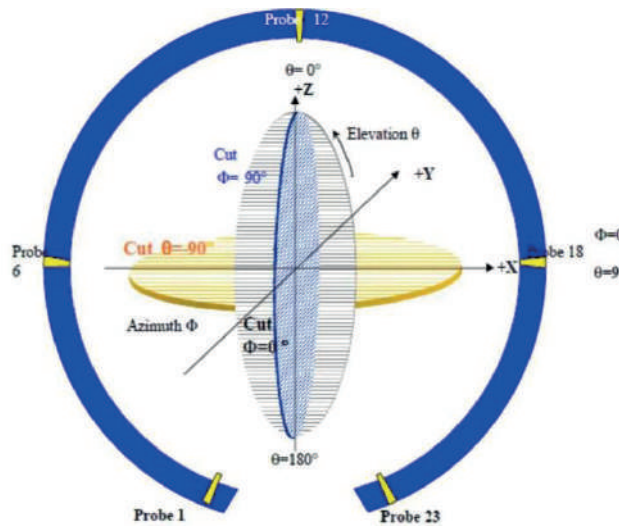
一. Test Instrumentation and item(测试设备及项目)

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)





三. Definitions (定义)

VSWR: Voltage Standing Wave Rate

RL: Return loss

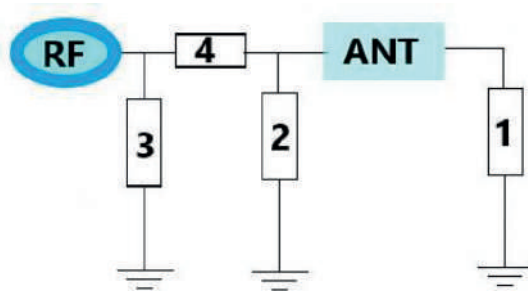
TRP: total radiated power

TIS: total isotropic sensitivity

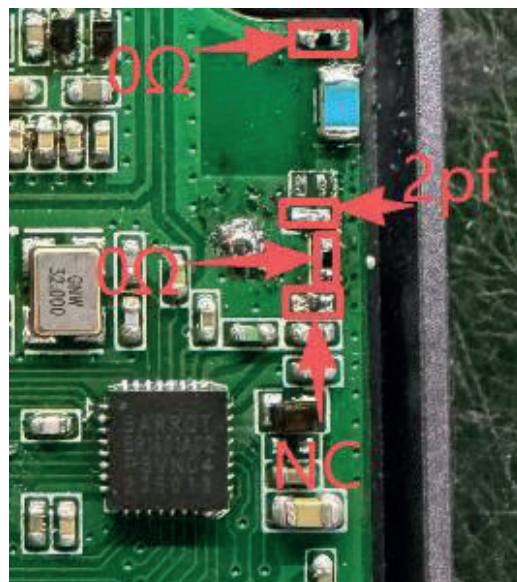
四. Cell-Phone Photo and Dealing Method (项目图片及环境处理)



五. Matching Circuit Description (匹配描述)

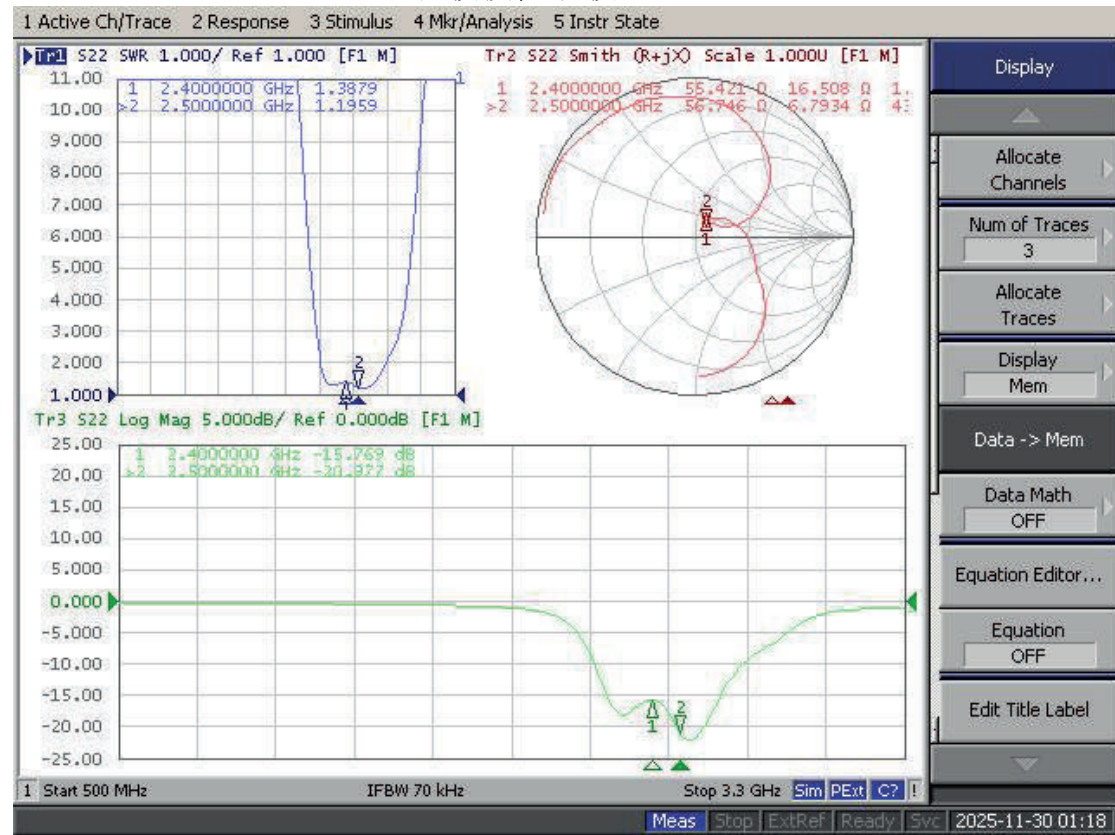


Element	(Value)
E1(0201)	0 Ω
E2(0201)	2pf
E3(0201)	NC
E4(0201)	0 Ω



六. Passive Test (无源测试)

6.1. RL/VSWR/Smith Chat (回波损耗/驻波比/Smith)



Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	-3.08	10.38
2410	-3.1	9.69
2420	-3.54	9.96
2430	-3.69	9.39
2440	-3.71	9.66
2450	-3.34	9.45
2460	-3.23	9.32
2470	-3.32	9.16
2480	-3.16	8.55
2490	-3.6	8.52
2500	-3.8	8.56

Manufacture: Shenzhen Zhiyunyi Technology Co., Ltd.
Room 1002, Building 1, Fa Building, No.111, Tangqian Road Tangwei
Community, Feng Street, Guangming District, Shenzhen China
Gain: -3.08dBi
Antenna Type: SMD ANT

