



深圳市千目通讯科技有限公司

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Client: Lingwei

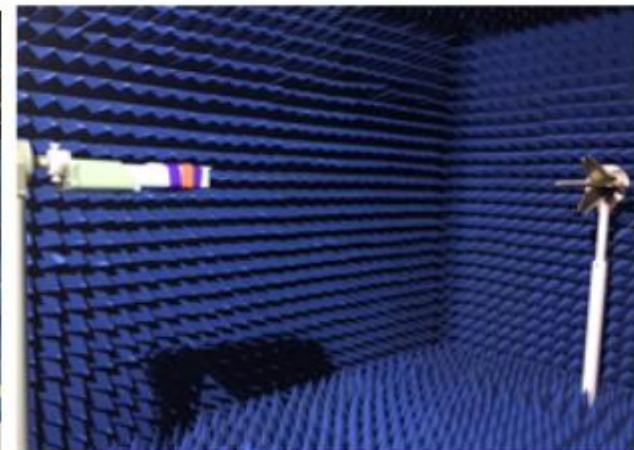
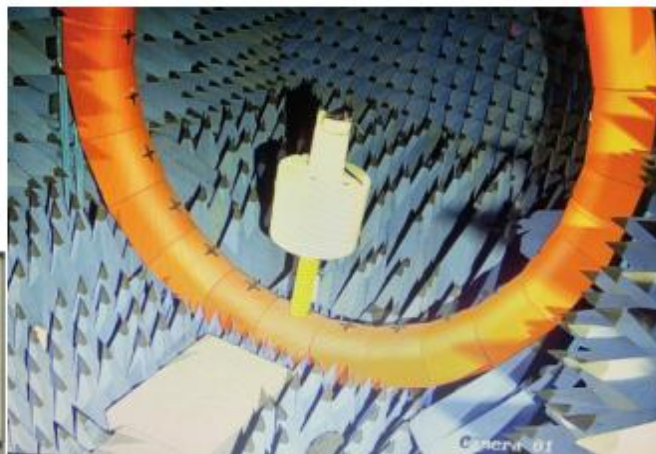
project : AG01

date : 2025.7.14



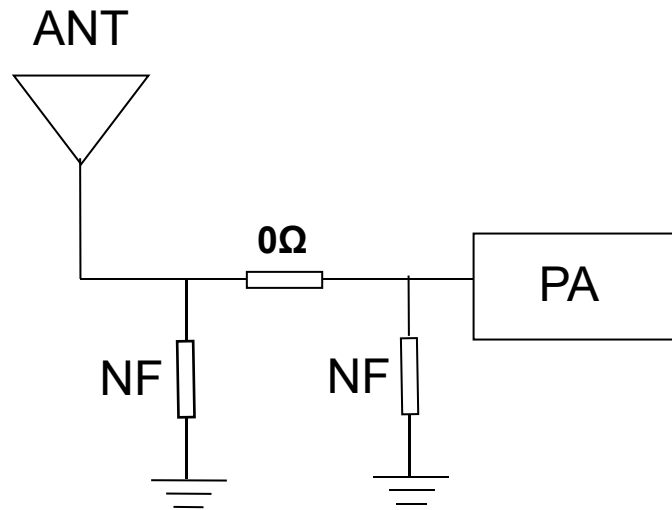
Test environment

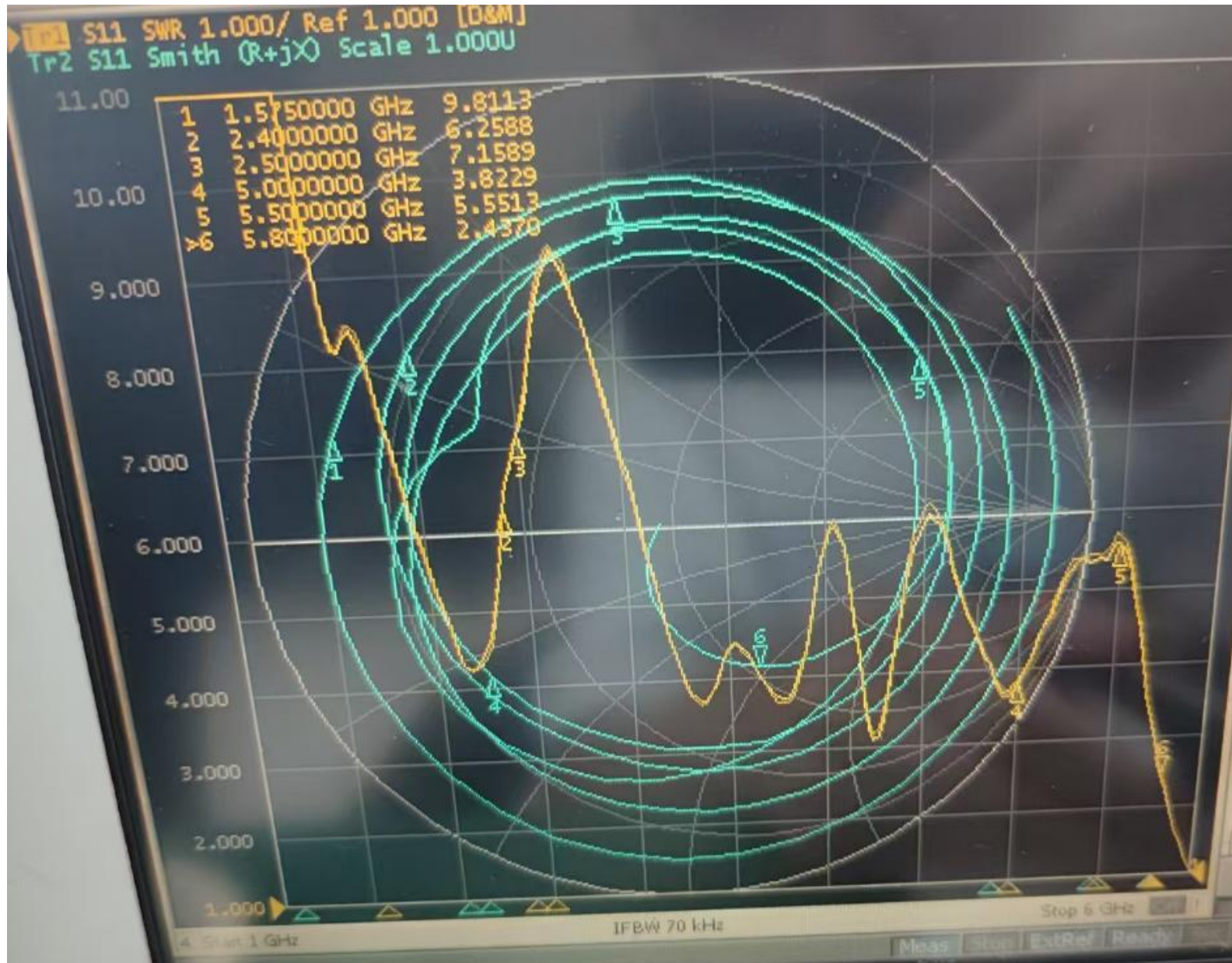
	测试项目	设备
1. S参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B ×2 HP 8753D PROTEK A338
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 频率误差 4. 屏灭、屏亮	1. 暗室: 飞图 7x4x3 m (24探头 3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 综合测试仪: Agilent 8960 ×2 CMW500 ×3/CMU200
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 飞图 7x4x3 m (24探头 3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: Agilent E5071B





Matching Circuit-WIFI Antenna





WiFi无源



BT无源

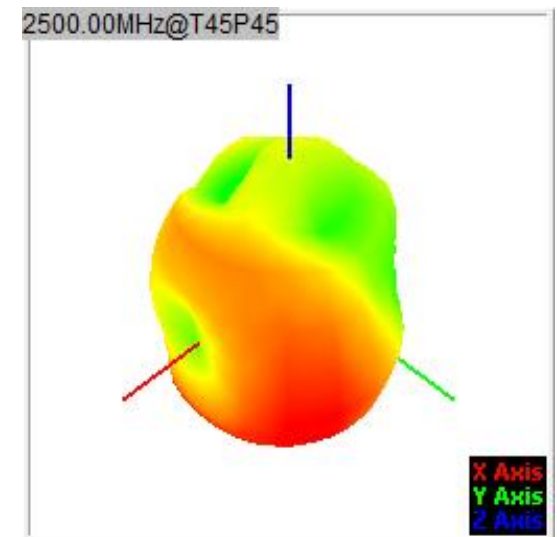
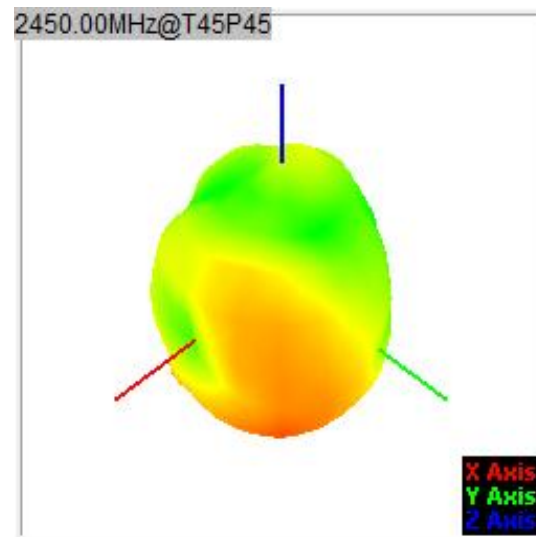
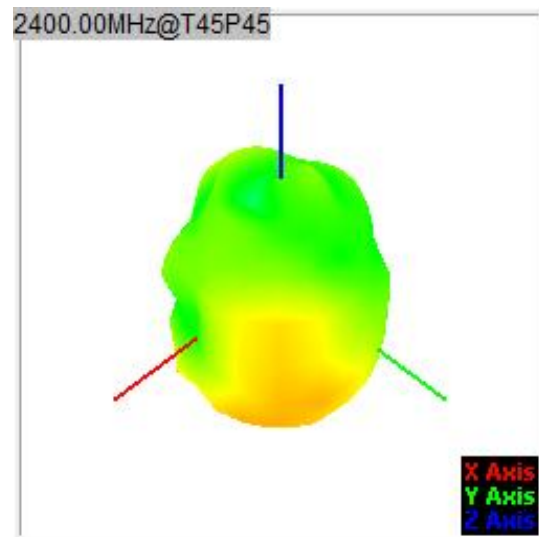


蓝牙效率

FEITUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-8.27	-8.26	-8.25	-8.20	-8.16	-8.11	-8.05	-7.97	-7.81	-7.70	-7.59
Peak EIRP (dBm)	1.16	1.31	1.32	1.20	0.93	0.50	-0.09	-0.60	-0.76	-0.79	-0.73
Directivity (dBi)	9.43	9.57	9.57	9.40	9.10	8.60	7.96	7.37	7.05	6.91	6.86
Efficiency (dB)	-8.27	-8.26	-8.25	-8.20	-8.16	-8.11	-8.05	-7.97	-7.81	-7.70	-7.59
Efficiency (%)	14.90	14.90	15.00	15.10	15.30	15.50	15.70	16.00	16.60	17.00	17.40
Gain (dBi)	1.16	1.31	1.32	1.20	0.93	0.50	-0.09	-0.60	-0.76	-0.79	-0.73
NHPRP $\pm\pi/4$ (dBm)	-10.08	-10.05	-10.00	-9.91	-9.84	-9.76	-9.68	-9.59	-9.43	-9.31	-9.19
NHPRP $\pm\pi/6$ (dBm)	-11.70	-11.65	-11.59	-11.49	-11.43	-11.37	-11.32	-11.25	-11.11	-11.01	-10.91
NHPRP $\pm\pi/8$ (dBm)	-13.05	-12.99	-12.90	-12.78	-12.73	-12.69	-12.65	-12.58	-12.44	-12.35	-12.26
Upper Hem. PRP (dBm)	-12.65	-12.56	-12.45	-12.31	-12.20	-12.09	-11.99	-11.89	-11.72	-11.60	-11.44
Lower Hem. PRP (dBm)	-10.24	-10.28	-10.33	-10.33	-10.34	-10.32	-10.29	-10.23	-10.07	-9.97	-9.90
Upper Hem. PRP (%)	5.44	5.55	5.68	5.87	6.02	6.18	6.32	6.47	6.73	6.92	7.17
Lower Hem. PRP (%)	9.47	9.38	9.28	9.26	9.24	9.29	9.35	9.49	9.84	10.07	10.24



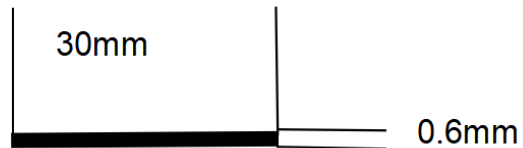
蓝牙方向图





天线装配

BT天线尺寸



BT用0.6*30mm



提示说明

Note:

1. This data is based solely on the prototype provided by the customer and does not represent the final mass production status.
2. Please carefully review the matching circuit modifications and environmental treatment instructions in our report.
3. Before mass production, please provide a trial production prototype for secondary verification. Please inform us in advance of any material changes, software updates, or environmental treatment requirements.
4. If the customer requires third-party retesting or requires customer testing, please return the prototype to us for verification before submitting it to prevent discrepancies between the machine and the debugged machine.
5. We do not accept data from machines other than our debugged machines or any other data that implies testing. However, data from the certified darkroom may be used as a reference. If any discrepancies occur, the debugged machine will be used as the basis for identification.



谢谢!

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