



河源市迅维通讯技术有限公司

# 潜行创新 遥控手柄

## 天线测试报告

射频工程师: 何国荣

测试日期: 2022.08.09

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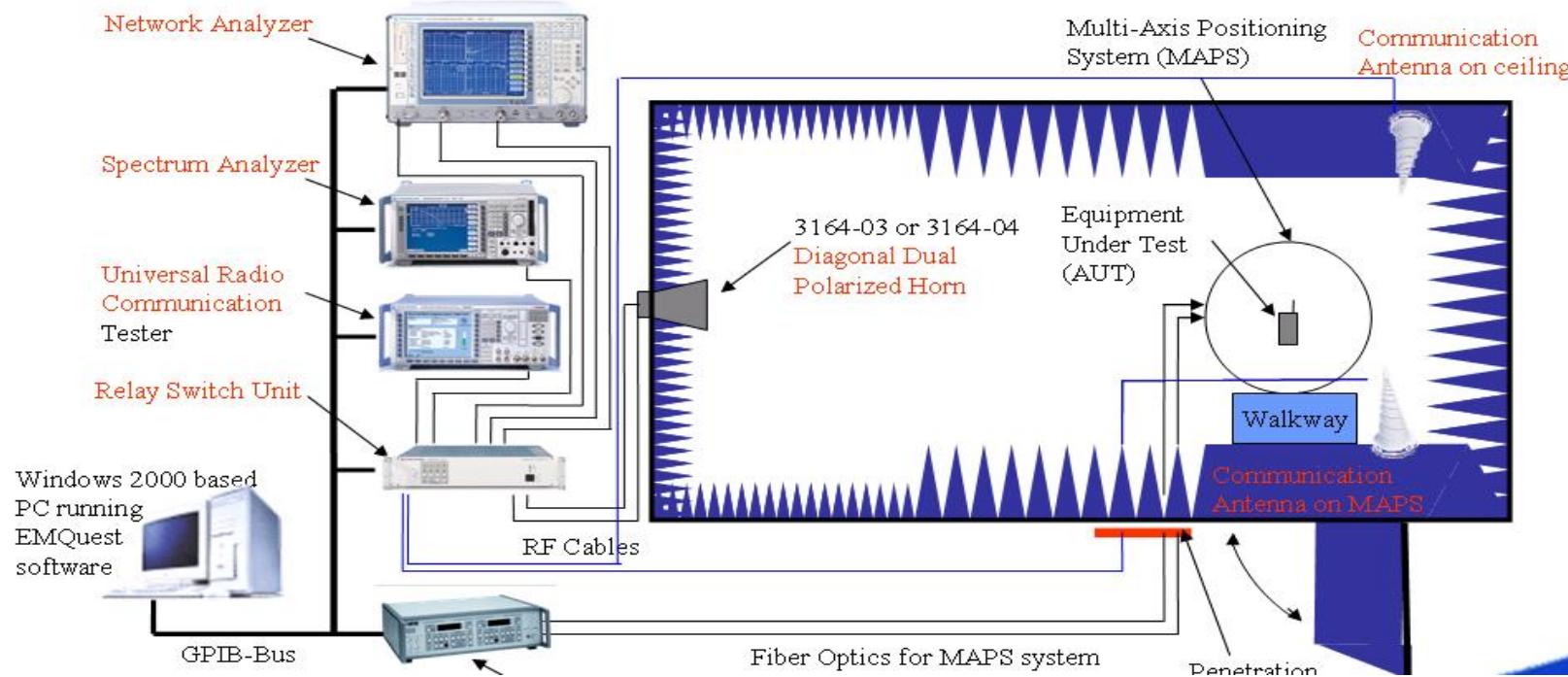
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# 1、测试设备

综测仪: Agilent 8960

网络分析仪: Agilent 8753ES

3D暗室: 7x4x3m

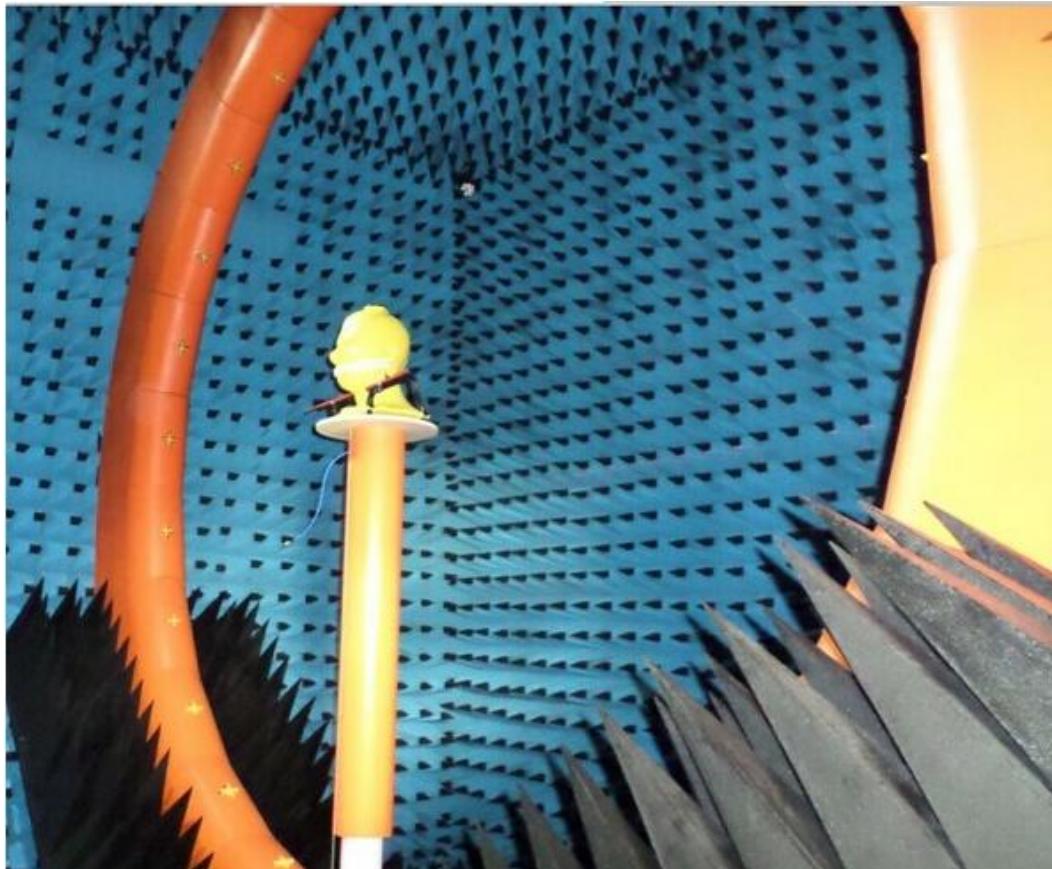


# 1、测试设备

综测仪: CMW500

网络分析仪: Agilent 5071B

3D暗室: SATIMO SG24



## 2、项目基本信息

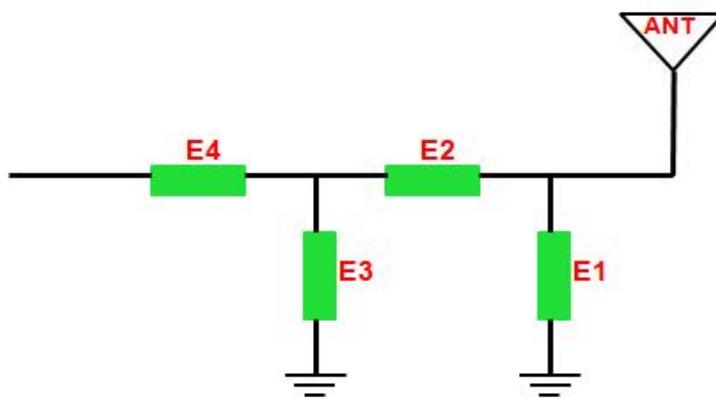
客户名称	潜行创新
项目名称	遥控手柄
手机类型	手柄
主板型号	
小板型号	
版本	V1.2

### 3、项目变更记录表

报告版本	日期	变更内容描述
V1.0	2022.04.29	测试报告
V1.1	2022.06.11	测试报告
V1.2	2022.08.09	测试报告

# 4、天线匹配电路

天线名称	匹配是否更改	备注
主天线	否	
分集天线	否	
三合一天线	否	



位号	原匹配	变更匹配
E1		NC
E2		NC
E3		NC
E4		NC

# 5、驻波图



# 6、WIFI有源数据

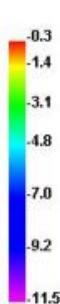
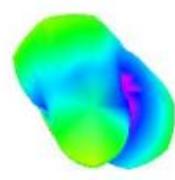
编号	信道	WIFI B (11Mbps)		WIFI G (54Mbps)		WIFI N (MCS7)		WIFI A (54Mbps)	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
整机	1	13.71	-85.61	15.01	-74.43	NA	NA	NA	NA
	7	13.81	-84.14	14.81	-74.35	NA	NA	NA	NA
	13	14.22	-83.92	13.64	-72.19	NA	NA	NA	NA
	36	NA	NA	NA	NA	NA	NA	13.62	-72.21
	100	NA	NA	NA	NA	NA	NA	13.39	-71.21
	136	NA	NA	NA	NA	NA	NA	13.46	-71.67
	165	NA	NA	NA	NA	NA	NA	14.02	-72.29

# 7、WIFI无源效率（2.4G）

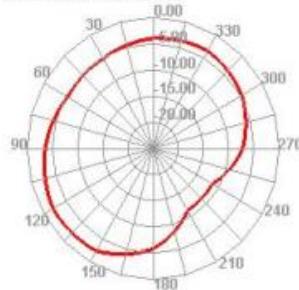
Passive Test For 2.4G WIFI				
Frequency	Efficiency (%)	Efficiency (db)	Gain (DBI)	Gain (DBD)
2400MHZ	50%	-3.14	2.03	0.26
2410MHZ	52%	-2.71	2.29	0.34
2420MHZ	51%	-2.9	2.13	0.59
2430MHZ	53%	-2.7	2.27	0.47
2440MHZ	52%	-2.84	2.28	0.4
2450MHZ	53%	-2.76	2.76	0.81
2460MHZ	52%	-2.83	2.56	0.61
2470MHZ	51%	-2.92	2.11	0.64
2480MHZ	52%	-2.8	2.22	0.48
2490MHZ	51%	-2.94	2.5	0.35
2500MHZ	50%	-3.07	2.07	0.67

# 7、WIFI无源苹果/方向图 (2.4G)

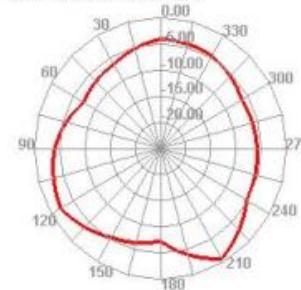
2400.000MHz



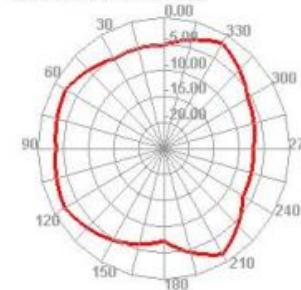
2400.000MHz H



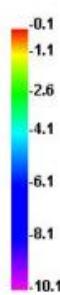
2400.000MHz E1



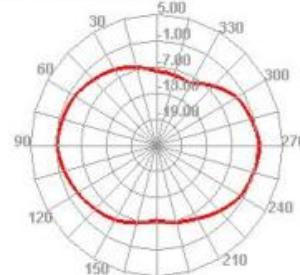
2400.000MHz E2



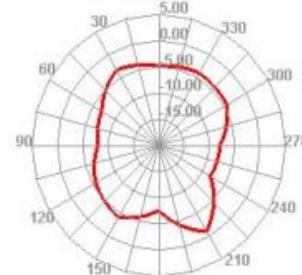
2450.000MHz



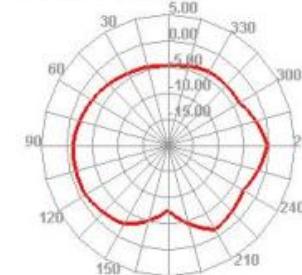
2450.000MHz H



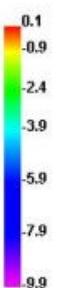
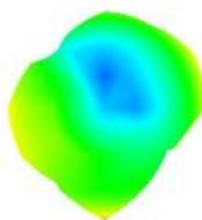
2450.000MHz E1



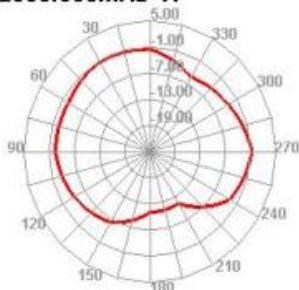
2450.000MHz E2



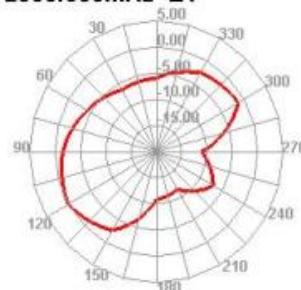
2500.000MHz



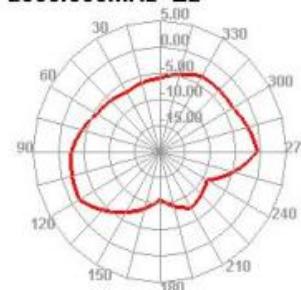
2500.000MHz H



2500.000MHz E1



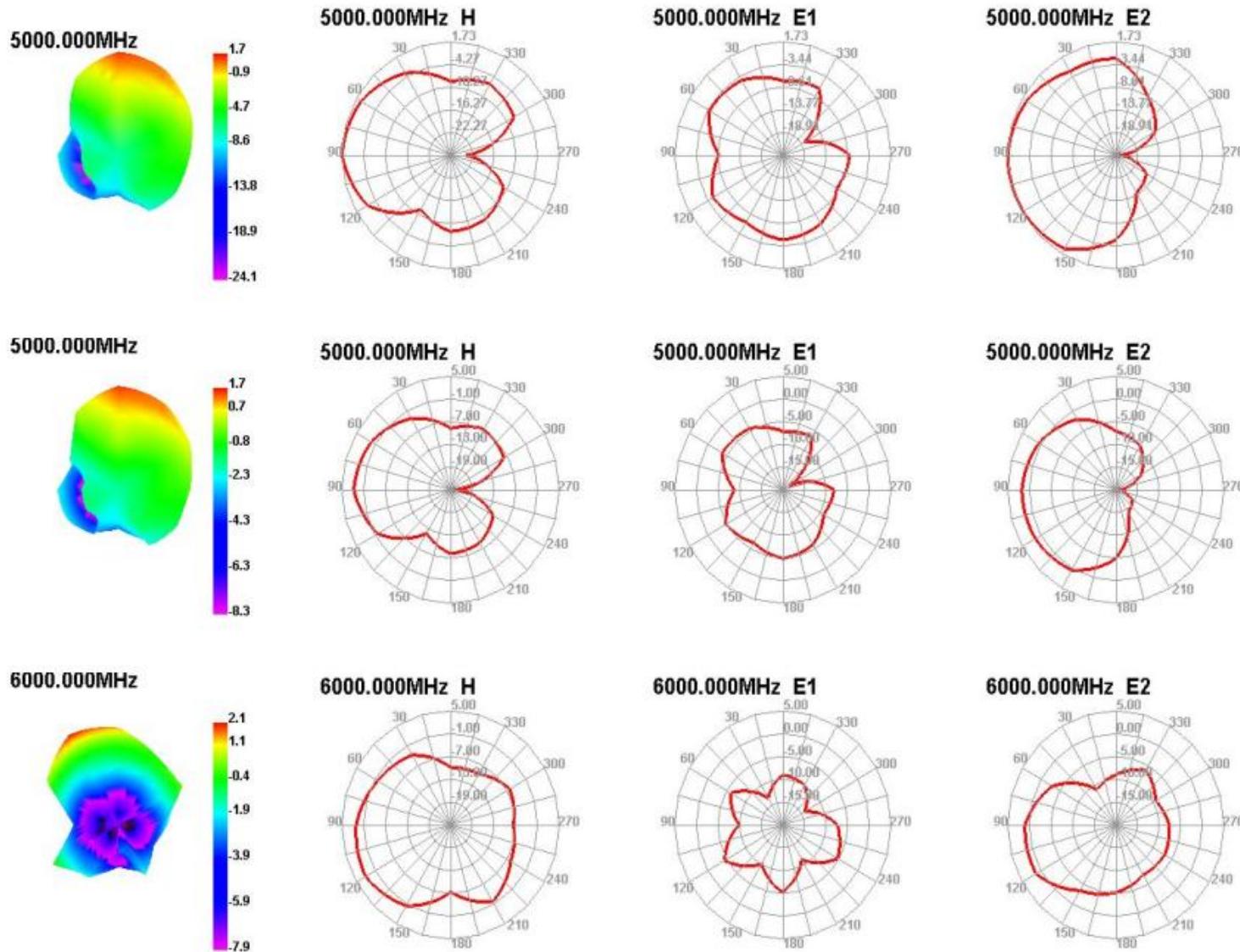
2500.000MHz E2



# 7、WIFI无源效率 (5.8G)

Passive Test For 5.8G WIFI				
Frequency	Efficiency (%)	Efficiency (db)	Gain (DBI)	Gain (DBD)
5000MHZ	42%	-3.56	0.1	-2.02
5080MHZ	43%	-3.6	0.25	-1.9
5160MHZ	44%	-3.58	0.41	-1.82
5240MHZ	45%	-3.39	0.39	-1.73
5320MHZ	45%	-3.4	0.46	-1.7
5400MHZ	45%	-3.43	0.42	-1.75
5480MHZ	46%	-3.34	0.56	-1.62
5560MHZ	46%	-3.37	0.61	-1.61
5640MHZ	45%	-3.5	0.59	-1.74
5720MHZ	44%	-3.52	0.5	-1.81
5800MHZ	45%	-3.55	0.51	-1.74

# 7、WIFI无源苹果/方向图 (5.8G)



## 8、环境处理及天线改善建议

# 9、联系我们

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Thanks and best regards!

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