



深圳市星源创科技有限公司
SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线测试报告

Antenna Test Report

TC: 为视特

MN: D2

RF: 戴进平

MD: 黄清清

MP: 19918388579

Date: 2022. 3. 21

REV :V1. 0



测试信息

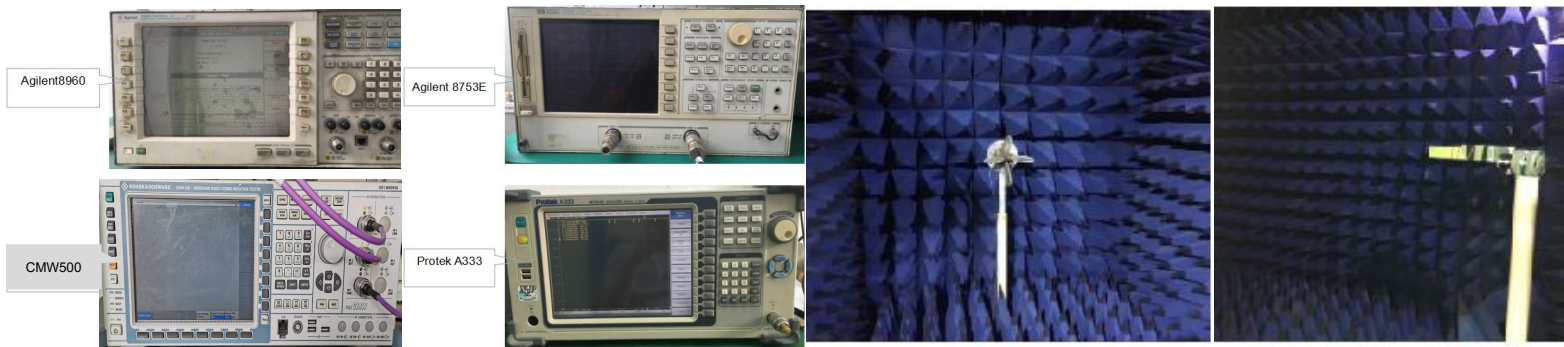
Test information

		Antenna band	Antenna state	Antenna form	Match changes	Note
Main ANT	2G					
	3G				NO	
	4G					
AUX ANT	BT/WIFI	2.4G	FPC	PIFA	NO	
	GPS				NO	
	DIV				NO	

测试环境

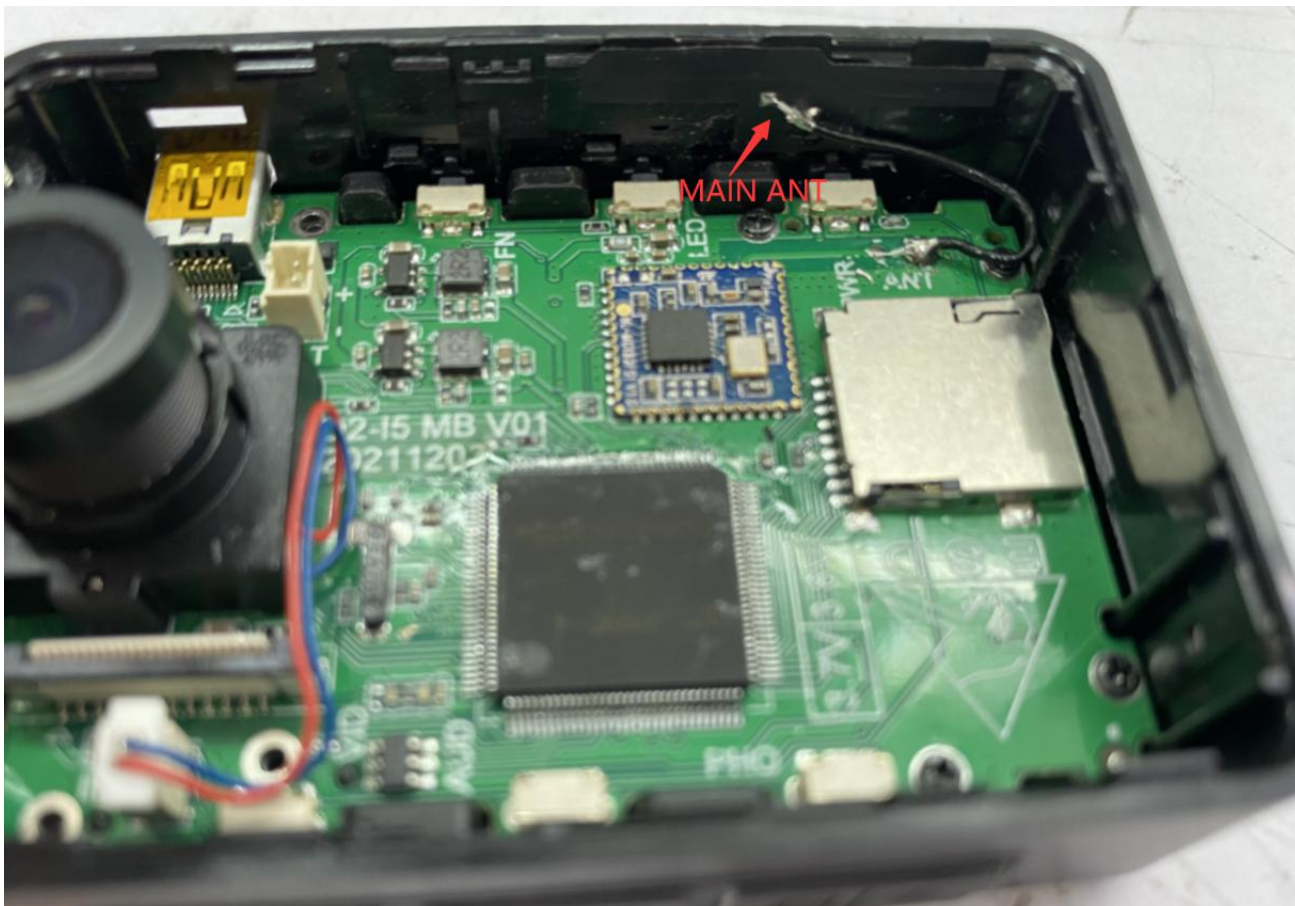
Test environment

	测试项目	测试设备
S参数 (S-parameter)	1. 电压驻波比 (VSWR) 2. 回波损耗 (Rrtun Loss)	网络分析仪: Agilent8753ES
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 屏灭/屏亮	1. 暗室: 5*3*3m (3D) Chamber 2. 综测仪: Agilent8960 CMW500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 5*3*3m (3D) Chamber 2. 网络分析仪: Agilent 8753ES

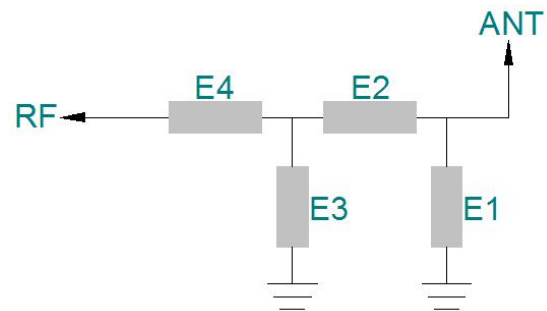


天线位置

Antenna position



匹配电路
Matching circuit



匹配电路原理图&位号图

	电容 (PF)	电感 (NH)
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

无源测试数据 Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2483
VSWR	1.64	1.11	1.98
Return Loss (DB)	-12.25	-26.5	-9.66

无源测试数据
Passive test data

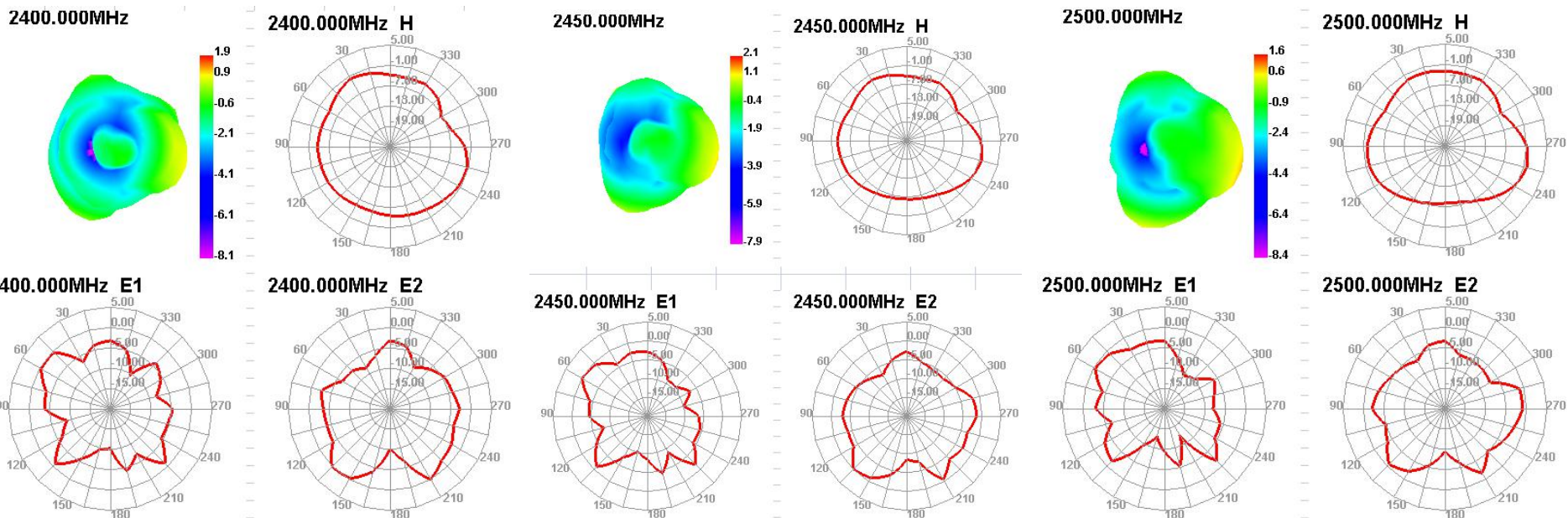
ANTI GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	42.57	-3.71	1.95	-0.2	17.801	24.767	1.95	-17.71
2410	41.57	-3.81	1.88	-0.27	17.508	24.066	1.88	-18.17
2420	41.4	-3.83	1.93	-0.22	17.452	23.95	1.93	-17.94
2430	40.32	-3.94	1.9	-0.25	17.105	23.216	1.9	-17.33
2440	41.22	-3.85	2.02	-0.13	17.644	23.576	2.02	-16.64
2450	42.04	-3.76	2.13	-0.02	18.22	23.824	2.13	-17.13
2460	41.75	-3.79	2.11	-0.04	18.323	23.427	2.11	-16.63
2470	41.09	-3.86	2	-0.15	18.268	22.825	2	-17.74
2480	41.39	-3.83	1.91	-0.24	18.624	22.761	1.91	-19.29
2490	42.09	-3.76	1.89	-0.26	19.148	22.945	1.89	-19.79
2500	40.03	-3.98	1.59	-0.56	18.25	21.78	1.59	-18.14

无源测试数据 Passive test data

ANT1 Direction of figure (2.4/BT)



合作共赢

