



深圳市星源创科技有限公司

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天线测试报告

Antenna Test Report

TC: 英众/Yingzhong

MN: DNN215-140H-XD

RF: 戴进平/ji npi ngdai

MD: 黄清清/qi ngqi nghuang

MP: 19918388579

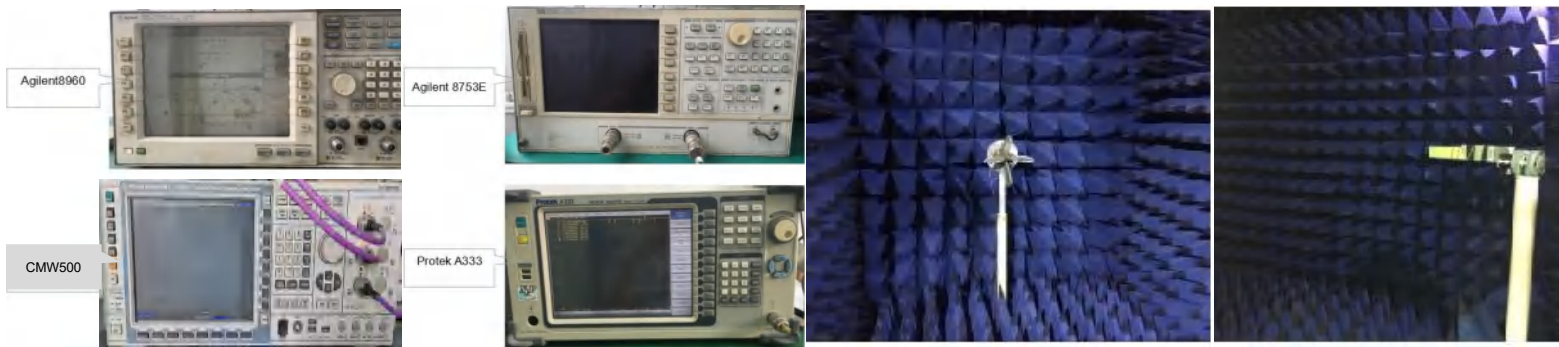
Date: 2022.11.10

REV :V1.0

测试环境

Test environment

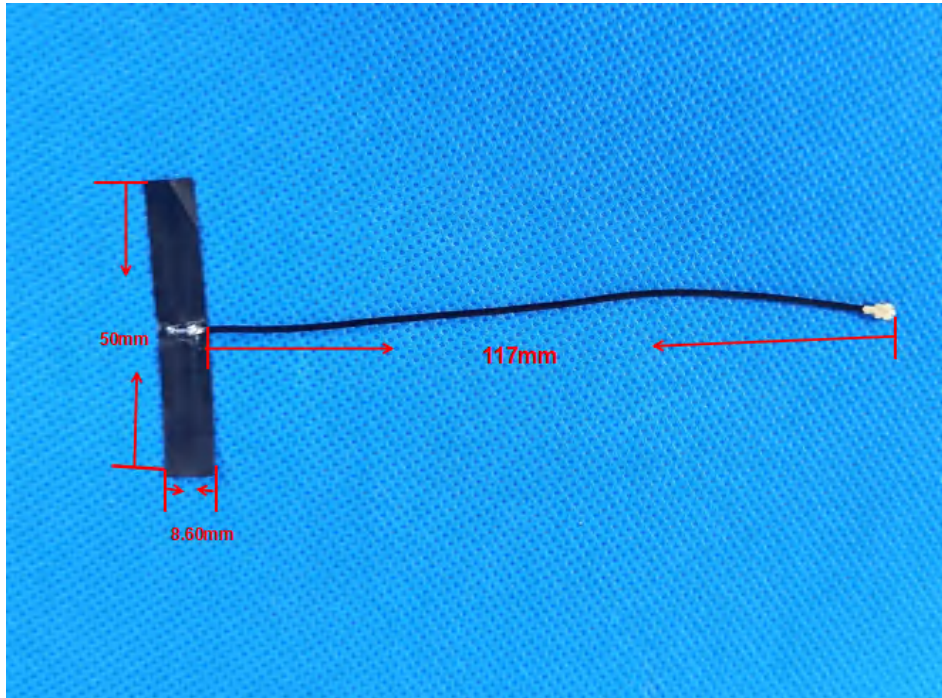
	测试项目/Test project	测试设备/Test equipment
S参数 (S-parameter)	1. 电压驻波比 (VSWR) 2. 回波损耗 (Rrtun Loss)	网络分析仪: Agilent8753ES
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 屏灭/屏亮	1. 暗室: 5*3*3m (3D) Chamber 2. 综测仪: Agilent8960 CMW500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 5*3*3m (3D) Chamber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



天线尺寸

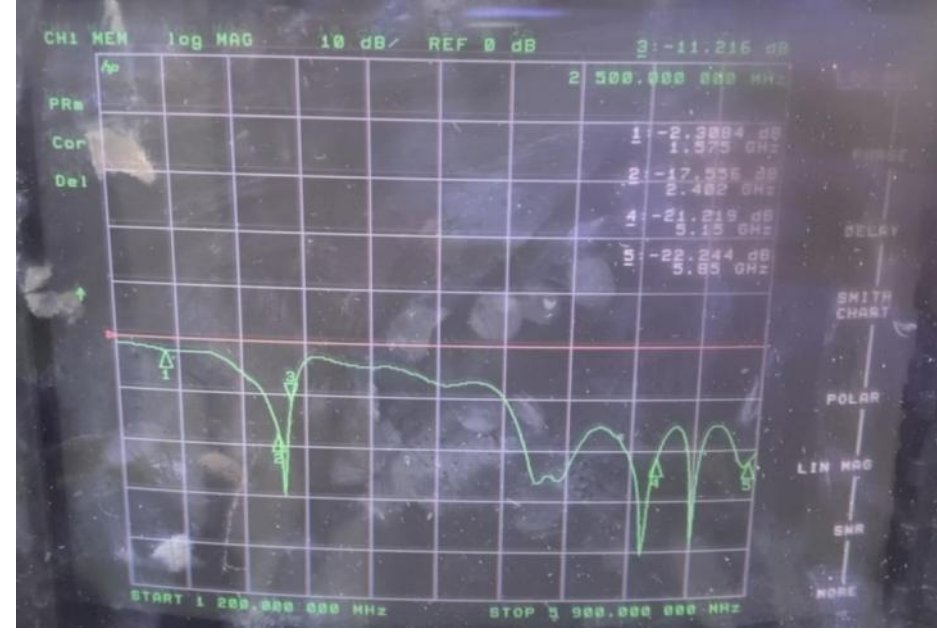
Antenna S ize

ANT



无源测试数据
Passive test data

ANT S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2483	
VSWR	1.31	1.79	1.19	
Return Loss (DB)	-17.55	-11.21	-21.21	



无源测试数据

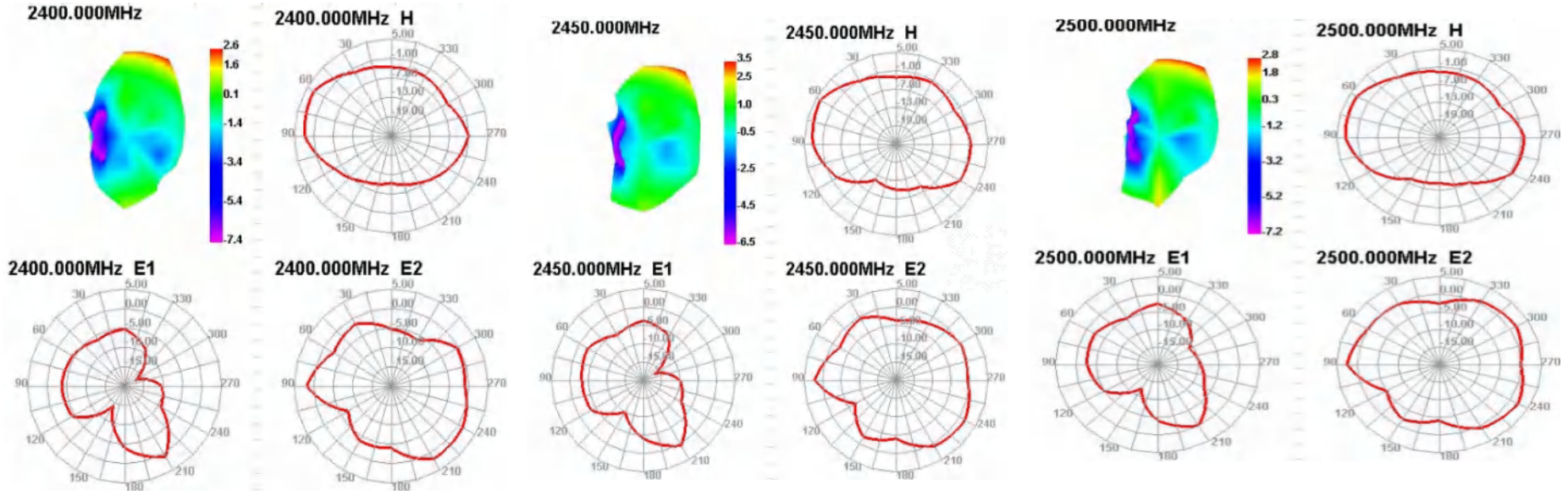
Passive test data

ANT GAIN&Efficiency-WIFI2.4G

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	46.42	-3.33	2.64	0.49	19.243	27.18	2.64	-16.88
2410	47.87	-3.2	2.86	0.71	20.007	27.86	2.86	-15.05
2420	48.47	-3.15	3.02	0.87	20.582	27.89	3.02	-14.4
2430	48.47	-3.14	3.05	0.9	20.91	27.564	3.05	-14.67
2440	51.82	-2.86	3.3	1.15	22.874	28.942	3.3	-15.59
2450	55.15	-2.58	3.51	1.36	25.016	30.133	3.51	-16.47
2460	54.55	-2.63	3.41	1.26	25.293	29.255	3.41	-16.02
2470	55.73	-2.54	3.41	1.26	26.356	29.378	3.41	-14.35
2480	59.24	-2.27	3.42	1.27	28.368	30.873	3.42	-13.48
2490	60.79	-2.16	3.27	1.12	29.366	31.428	3.27	-12.26
2500	58.63	-2.32	2.8	0.65	28.661	29.964	2.8	-12.2

无源测试数据
Passive test data

ANT Direction of figure(2.4G)





有源测试数据 Active test data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	11.06	CH1 11Mbps	-79.41
	2437	CH6 11Mbps	12.06	CH6 11Mbps	-79.19
	2467	CH11 11Mbps	11.38	CH11 11Mbps	-78.66