



Antenna Test Report

MN: CF-102P-TEQ

Manufacturer: SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

***Address: 1506 Tangwei Stock Business Building, Tangwei Community,
Fuhai Street, Baoan District, Shenzhen***

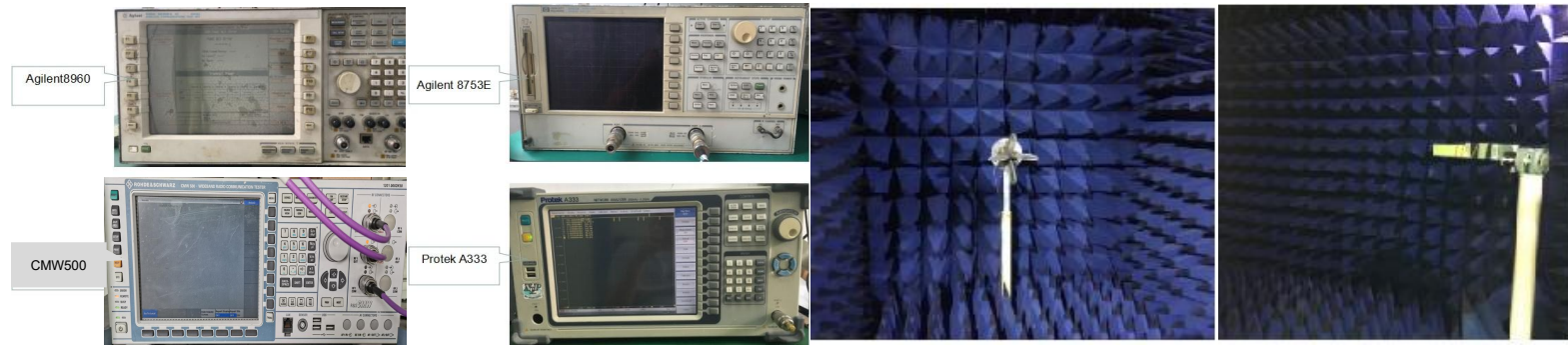
Date: 2025. 1. 13.
REV : V1. 0

Test information

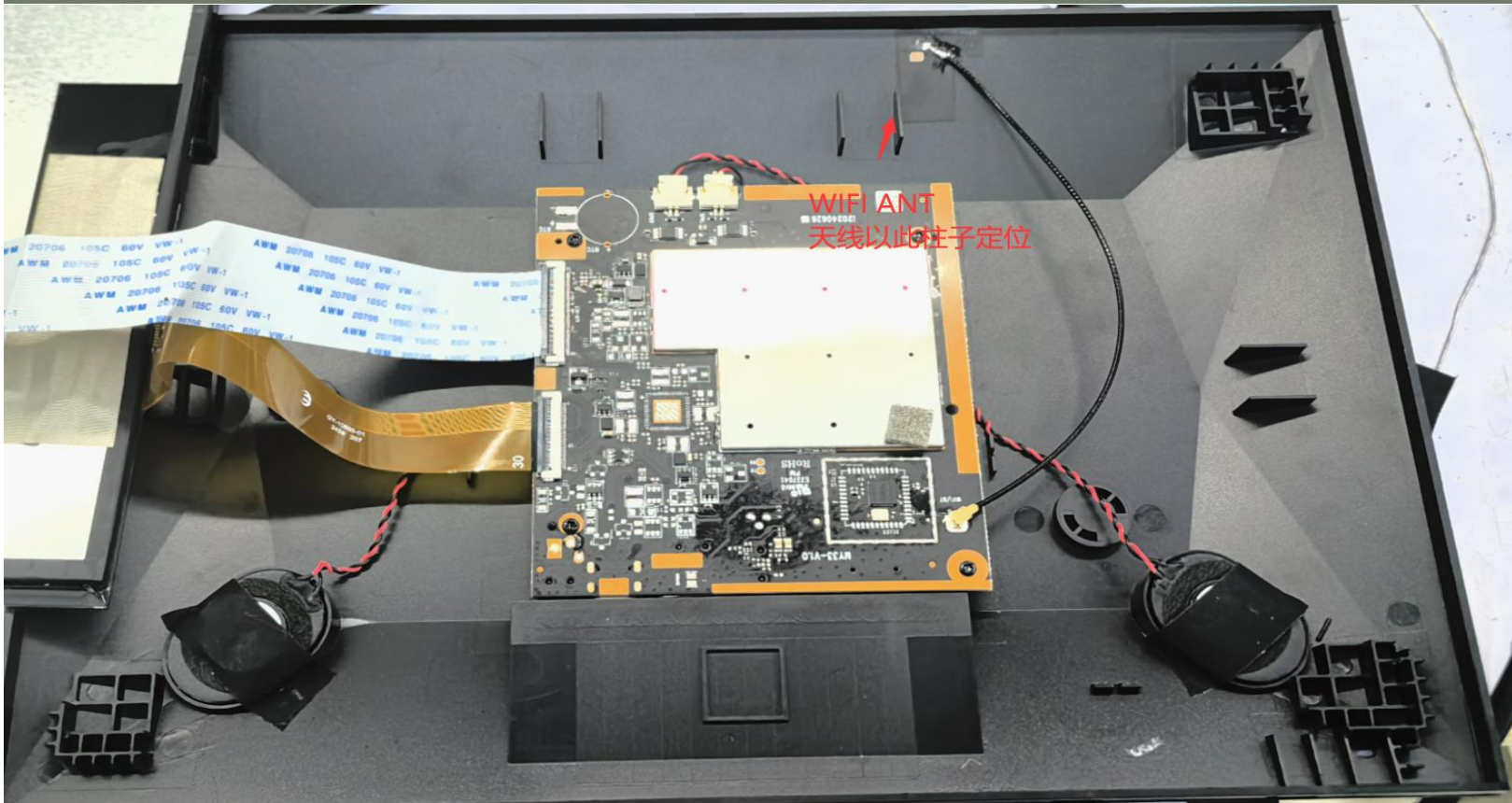
Antenna band		Antenna state	Antenna form	Match changes	Note
Main ANT	2G			NO	
	3G				
	4G				
AUX ANT	BT/WIFI	2.4G	FPC	PIFA	NO
	GPS		FPC	PIFA	NO
	DIV				NO

Test environment

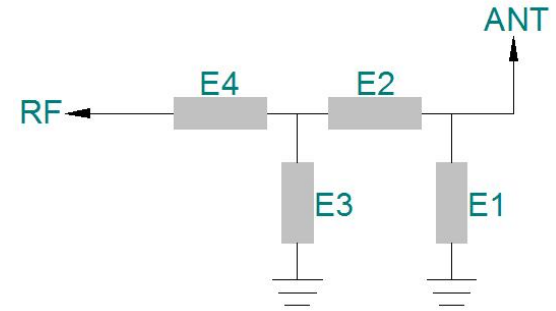
	Test item	Test equipment
1. (S-parameter)	1. VSWR 2. Rrtun Loss	Agilent8753ES
2. (Active)	1. TRP 2. TIS	1. 5*3*3m (3D) Chamber 2. Agilent8960 CMW500
3 (Passive)	1. Gain 2. Efficiency	1. 5*3*3m (3D) Chamber 2. Agilent 8753ES



Antenna position



Matching circuit



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



ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

Active test data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	14.27	CH1 11Mbps	-81.44
	2437	CH6 11Mbps	14.38	CH6 11Mbps	-81.76
	2467	CH11 11Mbps	13.5	CH11 11Mbps	-81.22
802.11g	Frequency	TRP		TIS	
	2412	CH1 6Mbps	13.77	CH1 54Mbps	-73.15
	2437	CH6 6Mbps	14.38	CH6 54Mbps	-72.02
	2467	CH11 6Mbps	13.5	CH11 54Mbps	-74.22
802.11n	Frequency	TRP		TIS	
	2412	CH1 MCS7	13.3	CH1 MCS7	-68.83
	2437	CH6 MCS7	13.9	CH6 MCS7	-68.54
	2467	CH11 MCS7	13.26	CH11 MCS7	-68.2

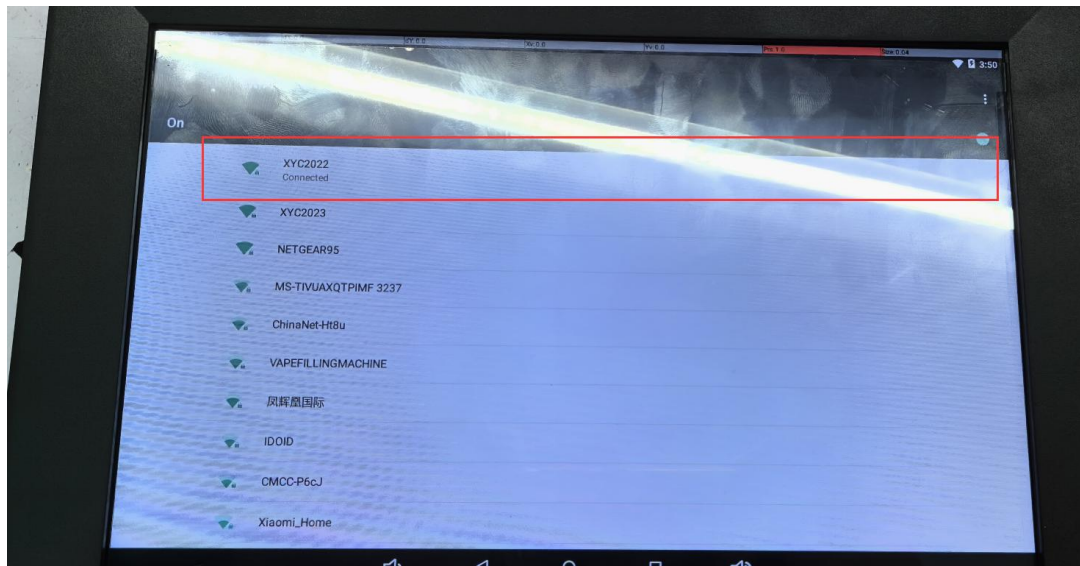
Wifi Antenna test

WIFI

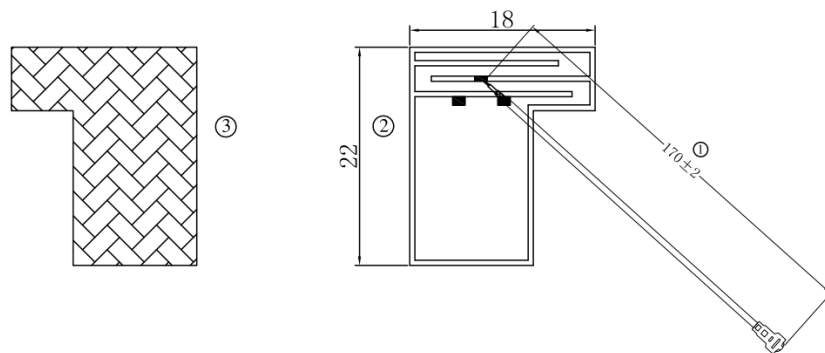
Test environment: Open space

Test distance: 10m

The test results are shown on the right



Antenna position and size(mm)



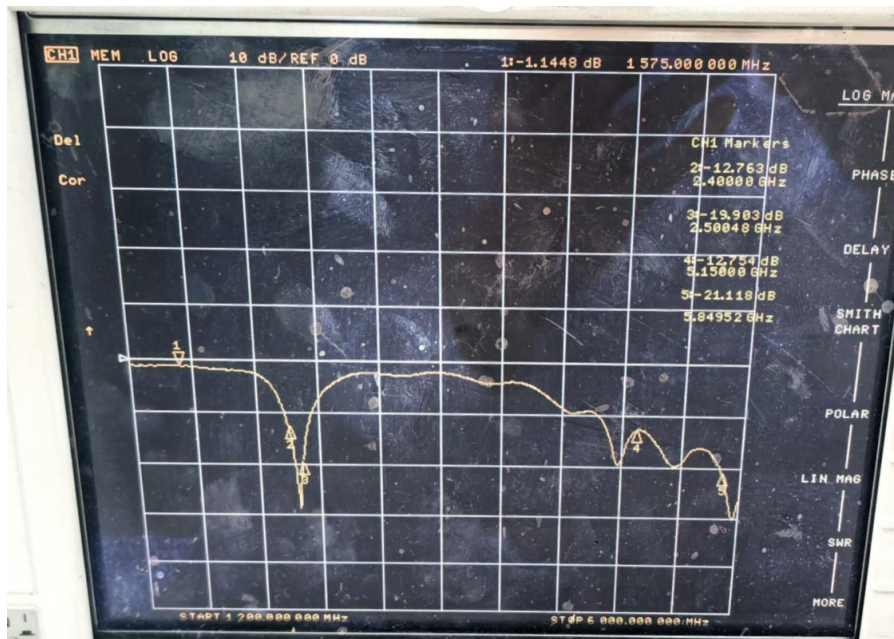
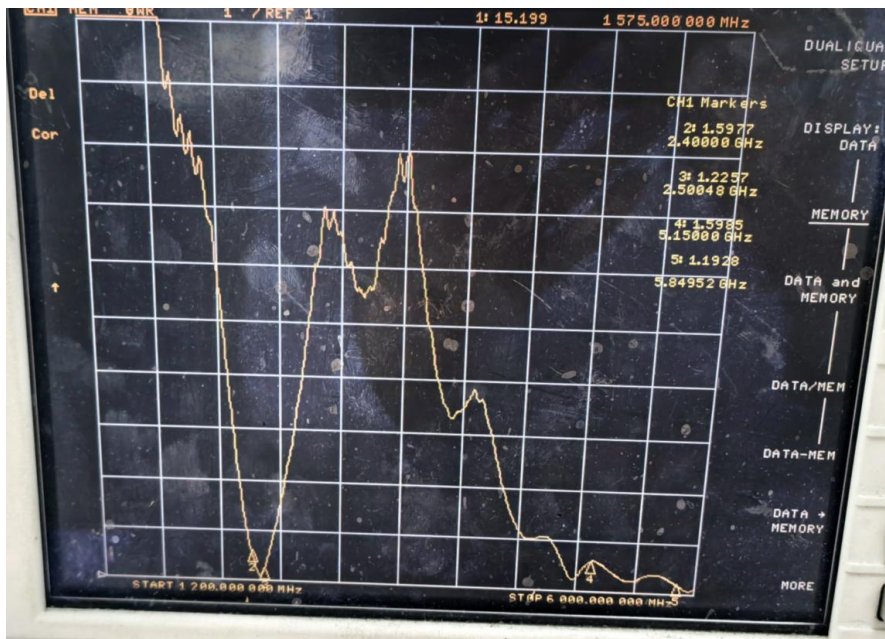


ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500
VSWR	1.59	1.22
Return Loss (DB)	-12.76	-19.90



ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO.,LTD

ANT1 GAIN&Efficiency-WIFI2.4G/BT

Passive test data

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	47.7	-3.21	1.11	-1.04	30.368	17.334
2410	46.42	-3.33	0.89	-1.26	28.909	17.514
2420	49.45	-3.06	1.1	-1.05	30.181	19.27
2430	49.71	-3.04	1.1	-1.05	29.814	19.894
2440	50.25	-2.99	1.28	-0.87	29.58	20.673
2450	49.75	-3.03	1.03	-1.12	28.774	20.979
2460	48.18	-3.17	0.65	-1.5	27.351	20.828
2470	48.68	-3.13	0.71	-1.44	27.288	21.392
2480	50.93	-2.93	0.87	-1.28	27.831	23.098
2490	50.31	-2.98	0.94	-1.21	27.017	23.288
2500	43.22	-3.64	0.32	-1.83	22.918	20.306



ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

ANT1 Direction of figure(2.4/BT)

Passive test data

