

深圳市云希科技有限公司

ShenZhen Yunxi Technology Co.,Ltd.

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Bao'an District, Shenzhen China

Antenna test Report

Customer: 文泰

Project Name: FM6-M5

RF Engineer: Wu Gong

Testing Date: 2026-7-27

Operating band: GPS-2.4G-5.8G WIFI/BT

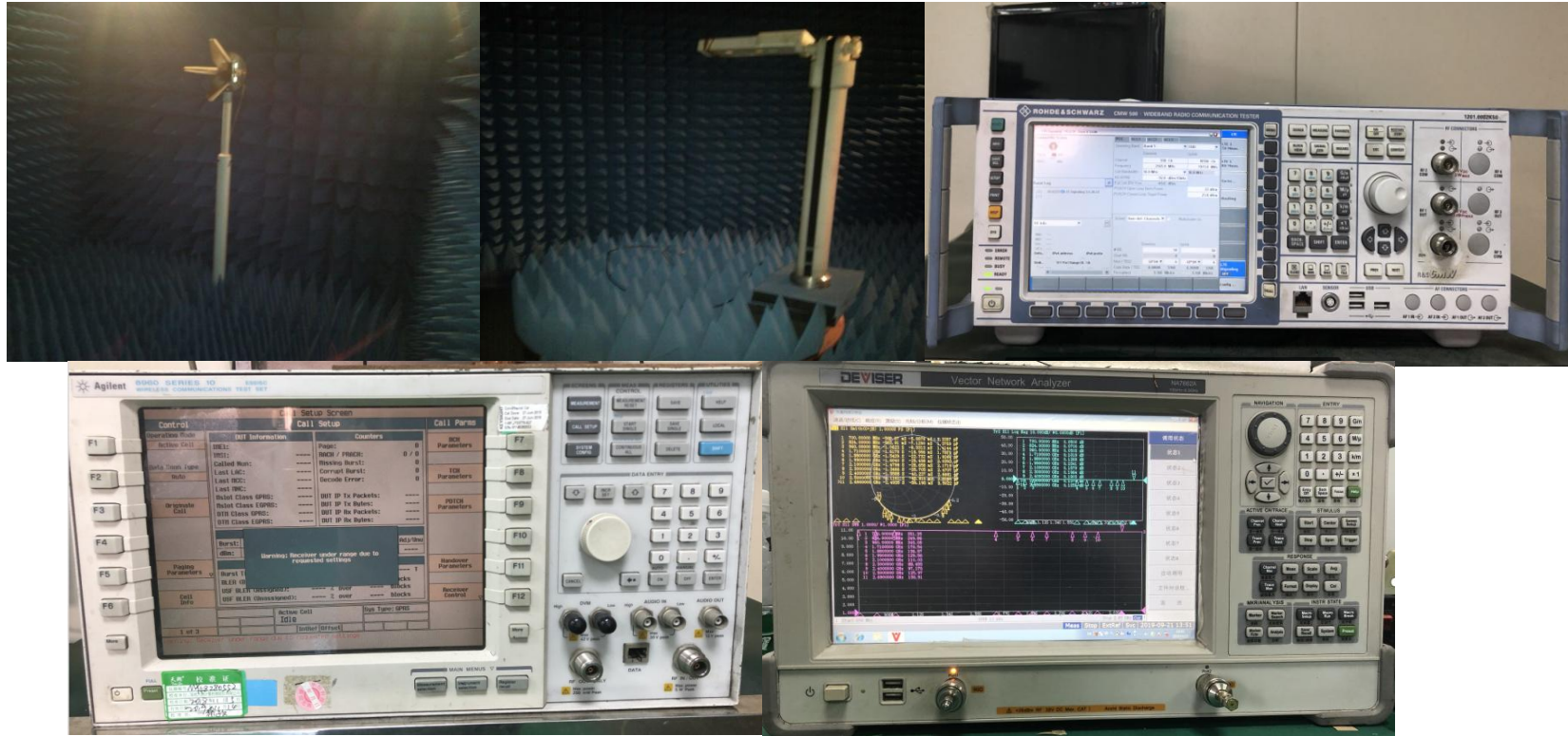


1.Project brief

NO.	ITEMS	DETAILS
1	工作频段 Operating band	GPS2.4G&5G WIFI/BT
2	频率范围 Frequency range	(1575.42MHz)(2400~2500MHz)(5150~5850MHz)
3	天线类型 Antenna Type	PIFA
4	天线材质及实现形式 Antenna material and implementation form	The antenna is attached to the side shell using FPC
5	天线料号 Antenna part number	W
	天线料号 Antenna part number	
6	输入阻抗 Input Impedance	50 (Ω)
7	增益	
	RF	吴工
	ME	邹工

测试系统及测试设备

Test Systems and Test Equipment



整机图 Overall Device View



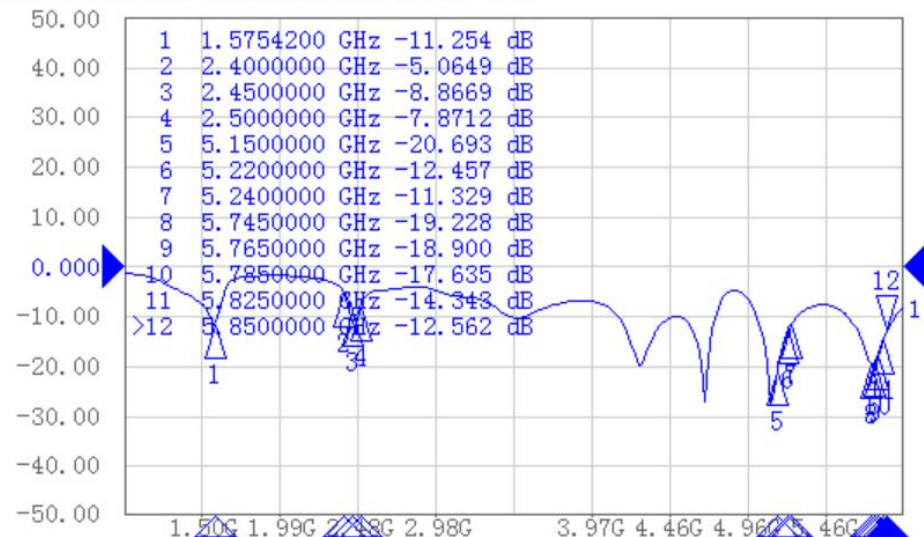
Antenna Placement/Mounting Location

天线装配位置

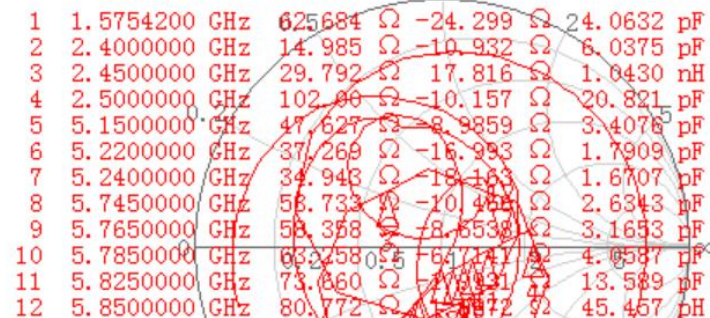


WIFI-GPS-S11

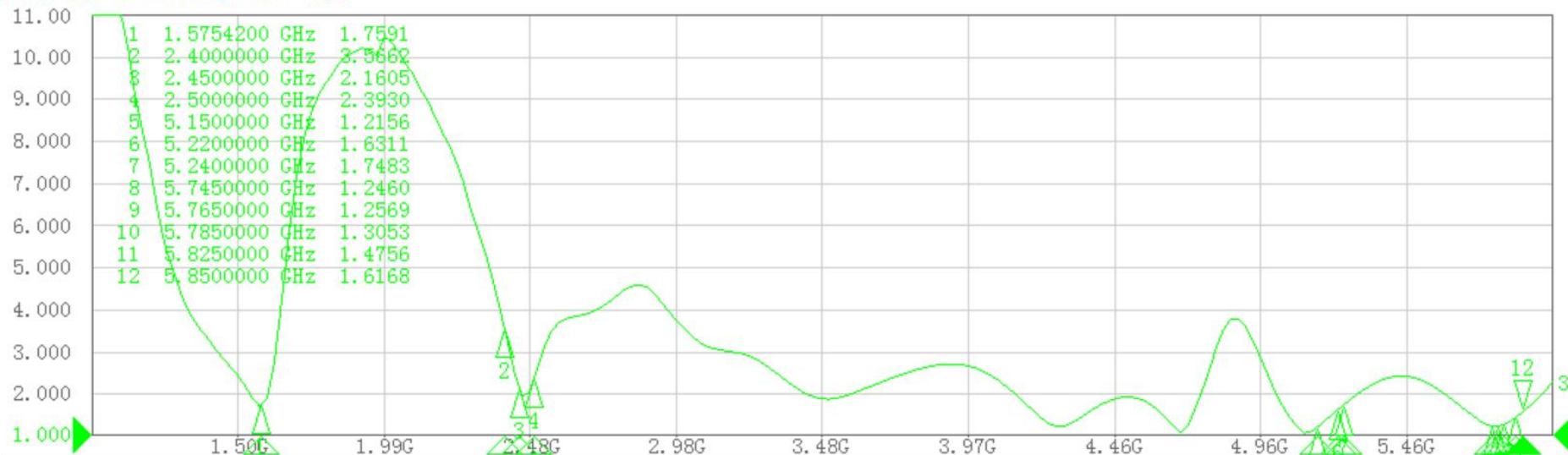
Tr1 S22 Log Mag 10.000dB/ ▶0.000dB [F1]



Tr2 S22 Smith(R+jX) 1.0000U FS [F1]



Tr3 S22 SWR 1.0000/ ▶1.0000 [F1]



1 Start 1 GHz

IFBW 10 kHz

Stop 5.95 GHz Cor !

WIFI天线无源测试数据

Passive Test Data for Wi-Fi Antennas

Freq	Effi	Effi	Gain					Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)
1530	21.05	-3.66	0.68	2400	49.3	-2.22	0.92	5150	42.18	-2.83	2.95
1535	23.82	-3.39	0.91	2410	40.53	-2.18	1.28	5200	45.75	-2.54	3.74
1540	28.53	-3.23	1.04	2420	42.9	-2.01	1.55	5250	43.88	-3.58	2.8
1545	24.22	-3.26	0.96	2430	44.9	-1.87	1.8	5300	44.91	-3.48	2.93
1550	32.42	-3.06	1.14	2440	46.15	-1.8	1.9	5350	43.52	-3.05	3.38
1555	31.9	-2.85	1.29	2450	46.56	-1.74	1.96	5400	45.1	-2.59	4.11
1560	33.2	-2.66	1.59	2460	44.78	-1.89	1.9	5450	44.1	-2.59	3.81
1565	35.94	-2.52	1.83	2470	46.36	-2.34	1.56	5500	41.7	-2.1	4.17
1570	41.4	-2.41	2.02	2480	41.21	-2.13	1.91	5550	42.42	-2.8	3.39
1575	30.6	-2.18	2.34	2490	44.16	-1.93	2.1	5600	46	-3.01	3.46
1580	31.95	-2.08	2.5	2500	46.34	-1.7	2.47	5650	46.9	-3.02	3.47
1585	31.38	-2.12	2.52					5700	45.12	-3.09	3.23
1590	32.11	-2.07	2.61					5750	42.22	-3.74	2.44
1595	32.38	-2.05	2.68					5800	40.27	-3.95	2.03
								5850	40.62	-3.91	2.41

Wi-Fi OTA Test Data

WiFi-OTA测试数据

	AdditionalInfor		802.11b : 11MBps					AdditionalInfor		802.11a : 54MBps		
Test		Wifi 2G TRP			Wifi 2G TIS		Test		Wifi 5G TRP			Wifi 5G TIS
Result		1	6	11	11		Result		36	64	165	165
Frequency (MHz)		2412	2437	2462	2462		Frequency (MHz)		5180	5320	5825	5825
TRP (dBm)		10.23	10.73	11.23	-80.2		TRP (dBm)		11.06	12.58	12.93	-71.76

Note: If there are any unclear or questionable locations regarding this project, please contact me promptly

