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深圳顺达成科技有限公司

Antenna Test Report



客户名称：熠华

项目名称：TR2603

频段：WiFi 2.4/5.8

版本：A

制作日期：2026-8-15



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1. Test system

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW2 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

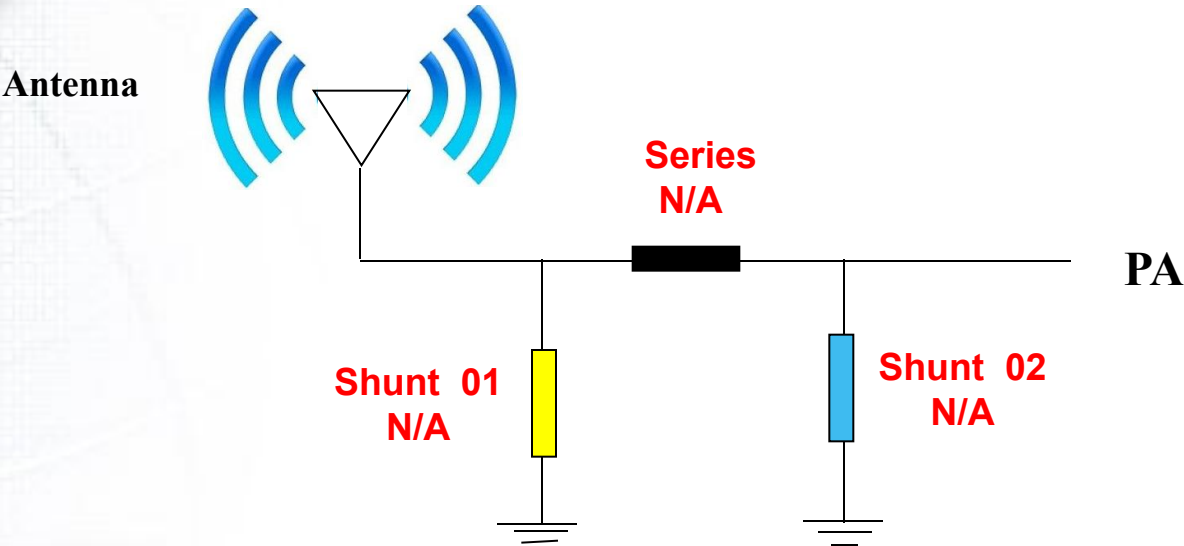




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2. Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

未改动主板
匹配电路

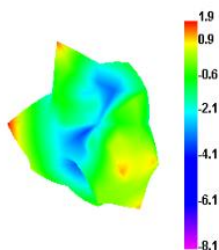


Gain & Efficiency

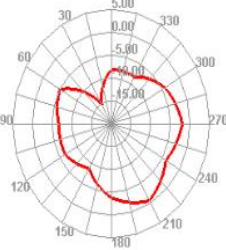
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Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	42.39	-3.73	1.93	-0.22	17.479	19.537	1.93	-17.03	3.73	0	48.23	48.39
2425	46.36	-3.34	2.22	0.07	18.761	21.994	2.22	-13.49	3.34	0	48.32	48.45
2450	40.81	-2.94	2.13	-0.02	24.756	28.62	2.13	-12.2	2.94	0	48.74	48.76
2475	43.62	-2.25	2.86	0.71	27.216	25.213	2.86	-10.29	2.25	0	49.07	49
2500	43.19	-2.66	2.51	0.36	29.268	21.264	2.51	-12.43	2.66	0	49.2	49.11

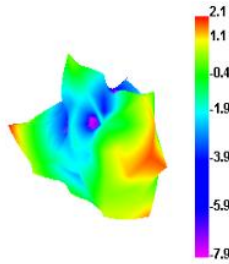
2400.000MHz



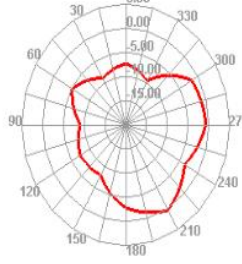
2400.000MHz H



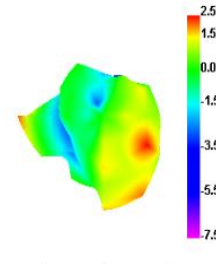
2450.000MHz



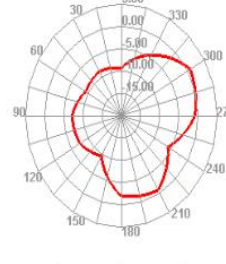
2450.000MHz H



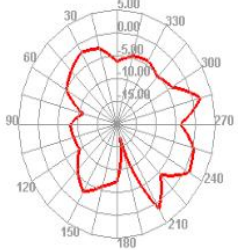
2500.000MHz



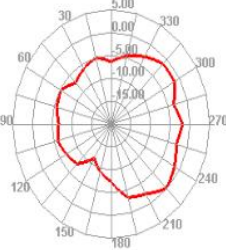
2500.000MHz H



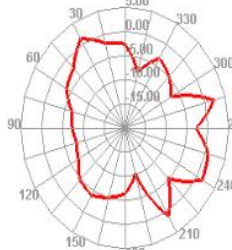
2400.000MHz E1



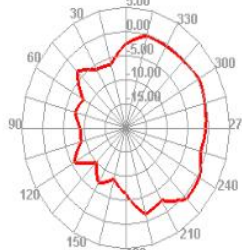
2400.000MHz E2



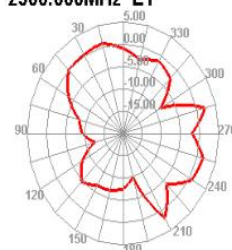
2450.000MHz E1



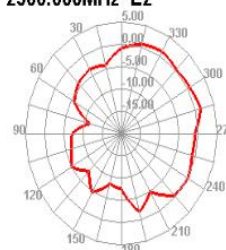
2450.000MHz E2



2500.000MHz E1



2500.000MHz E2

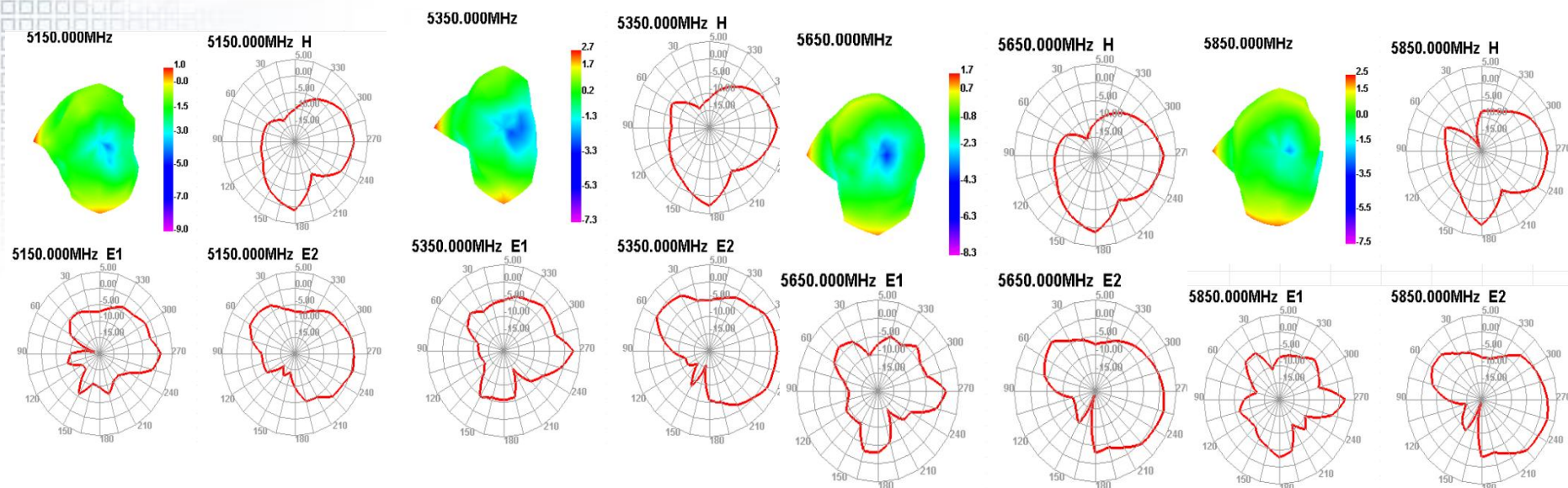




Gain & Efficiency

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Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	33.5	-4.75	0.98	-1.17	25.032	25.153	0.98	-18.84	4.75	15	58.24	57.86
5250	35.28	-4.53	1.92	-0.23	22.061	19.055	1.92	-16.91	4.53	15	58.55	58.24
5350	43.59	-3.61	2.65	0.5	21.053	14.306	2.65	-15.68	3.61	0	58.32	57.64
5450	41.24	-3.85	2.28	0.13	18.937	15.897	2.28	-18.03	3.85	0	59.47	58.22
5550	40.88	-3.88	2.54	0.39	14.805	18.086	2.54	-25.65	3.88	0	59.98	58.53
5650	38.56	-4.14	1.74	-0.41	13.601	20.833	1.74	-18.84	4.14	15	60.3	59.1
5750	42.14	-3.75	2.03	0.88	13.305	22.904	2.03	-24.41	3.75	15	60.64	59.72
5850	40.95	-3.88	2.51	0.36	14.37	21.787	2.51	-25.36	3.88	0	61.06	60.22





WIFI OTA 传导

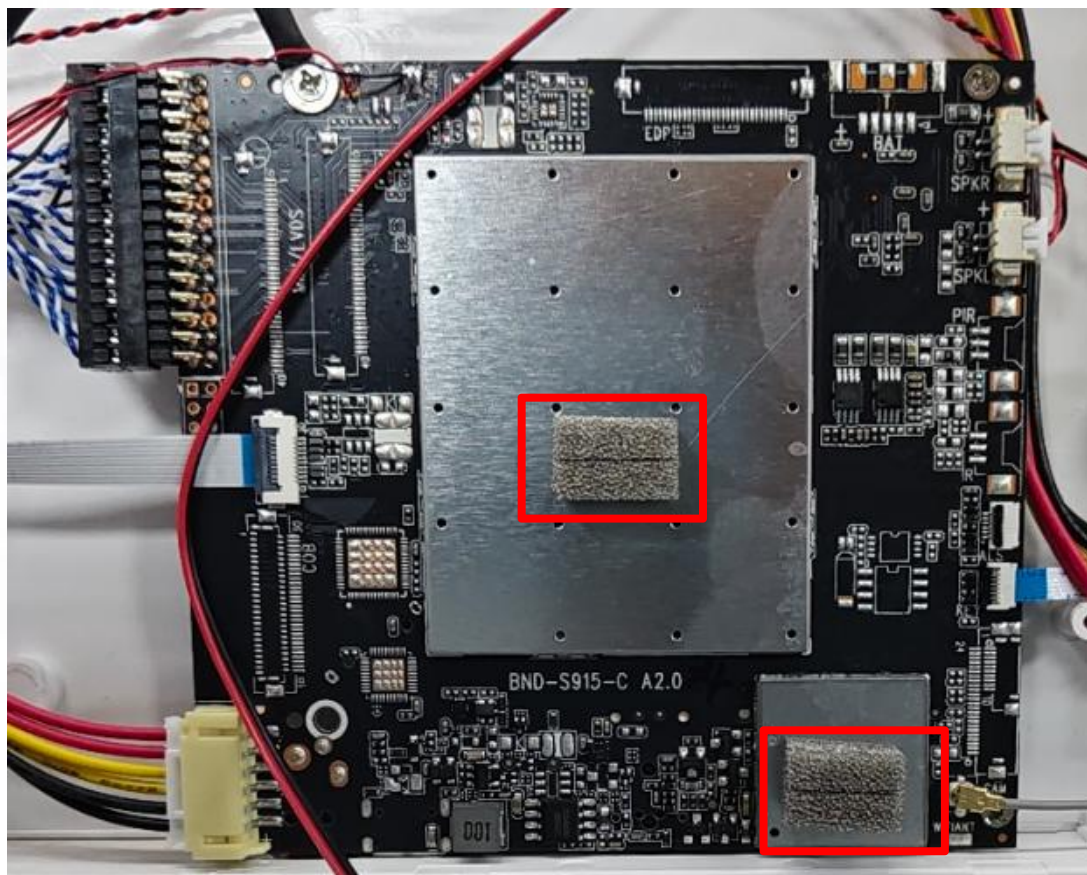
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	14.16	14.65	2.86
TIS			

5.8G末信道传导偏低



WIFI OTA Data

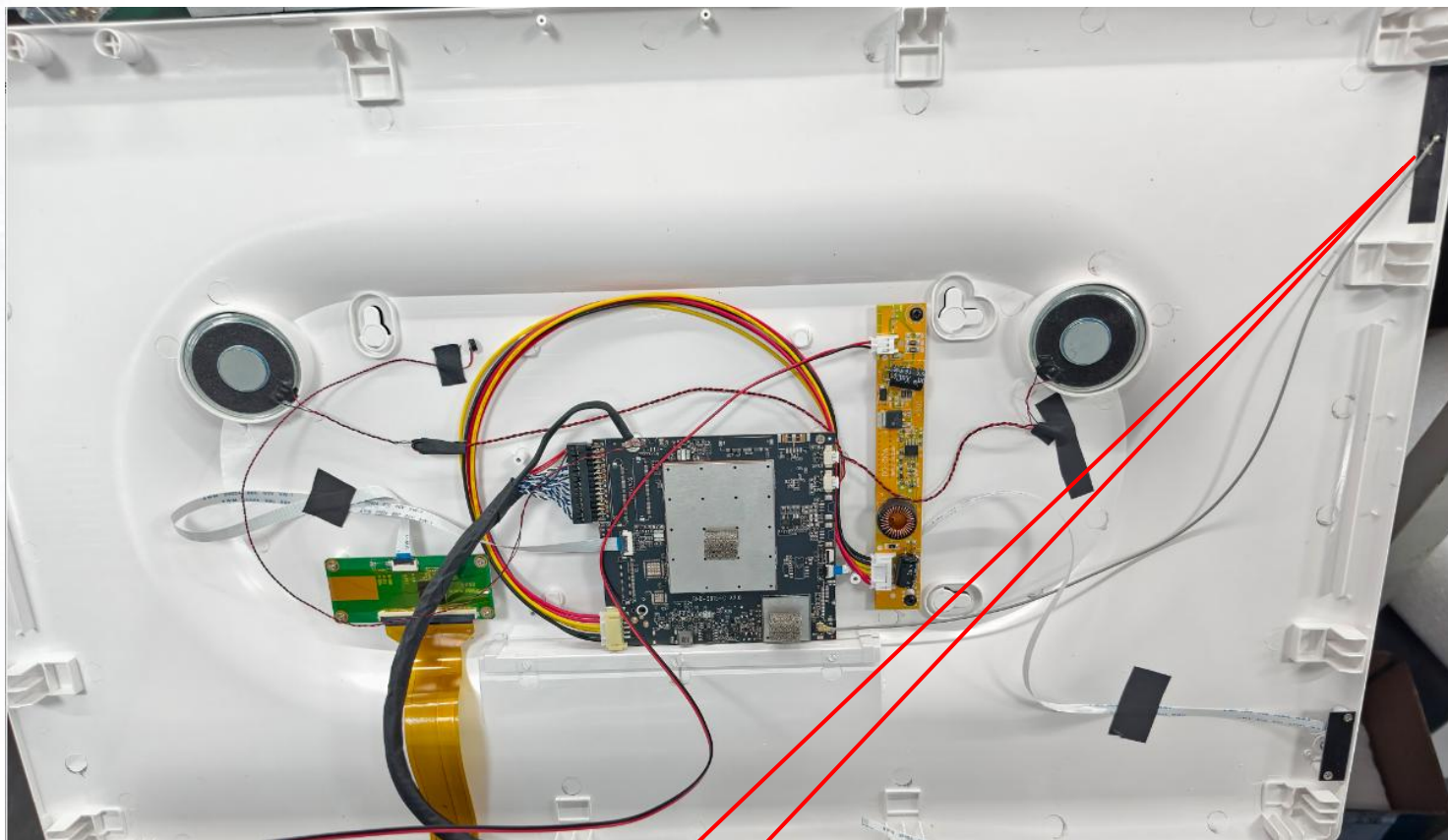
2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	14.68	14.20	14.54
TIS	-76.59	-76.37	-76.25
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	11.36	11.28	1.07
TIS	-70.26	-70.81	-69.33



主板屏蔽罩贴导电海绵接地



天线安装位置图



WiFi天线



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顺达成感谢您的支持

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