



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: 亿莱顿

MN: FA3269T

RF: 陈鑫

MD: 黄清清

MP: 13184572550

Date: 2025. 12. 18.

REV :V1. 0



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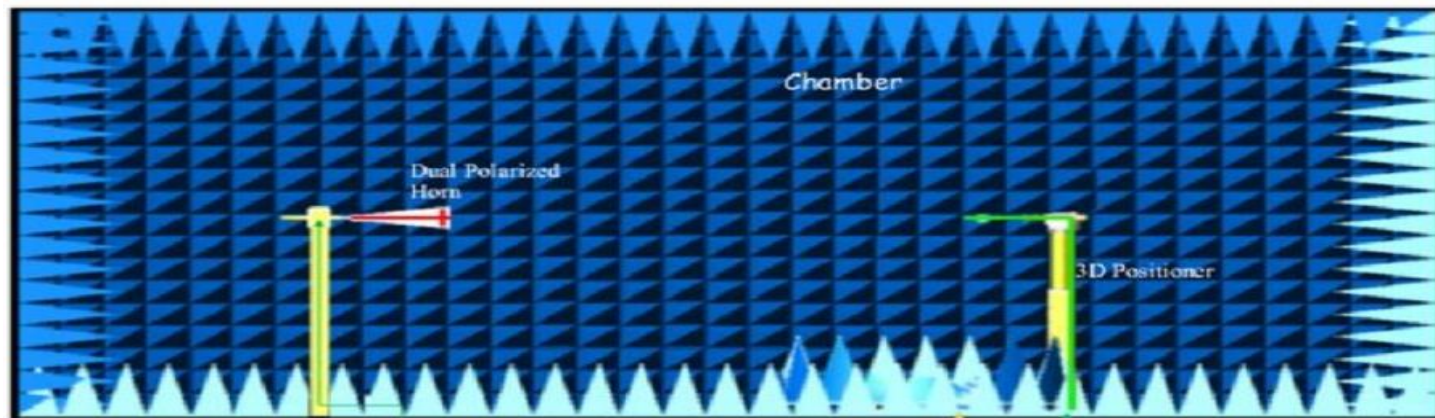
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测试信息

Test information

Antenna band		Antenna state	Antenna form	Match changes	Note
Main ANT	2G	FPC	PIFA	NO	
	3G				
	4G				
AUX ANT	BT/WIFI	2.4G/5G	FPC	PIFA	NO
	GPS		FPC	PIFA	NO
	DIV		FPC	PIFA	NO

OTA Chamber Overview

0.1~12.5Ghz
RF Switch BoxWireless
Communications
Test Set 1Wireless
Communications
Test Set 2Network
Analyzer

Standard	
Passive	Agilent HP8753/E5062/E5071
GSM	Agilent 8960
CDMA2000	Agilent 8960
WCDMA	Agilent 8960
TDSCDMA	Agilent 8960
LTE	RS CMW500
BT	RS CMU500/200
WIFI	Agilent N4010

RF Link

GPIB Link

Optical Link

Serial Link



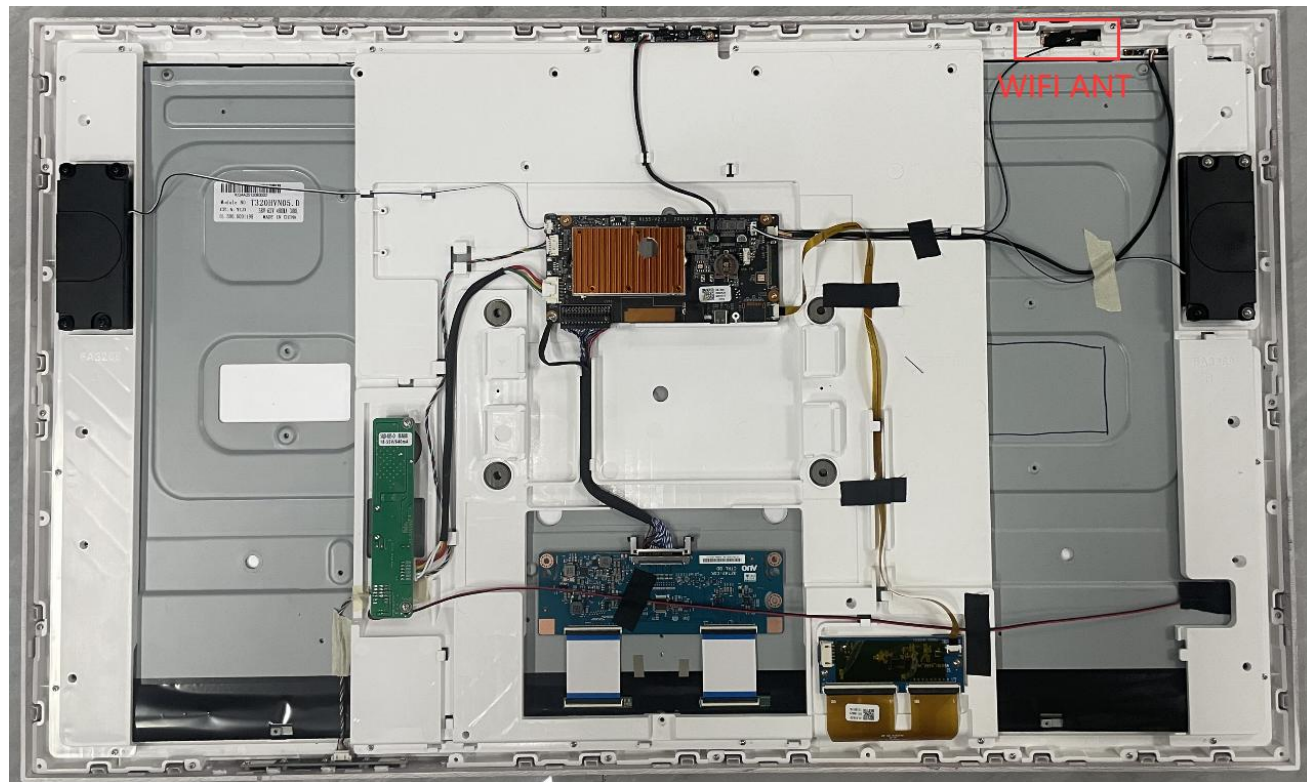
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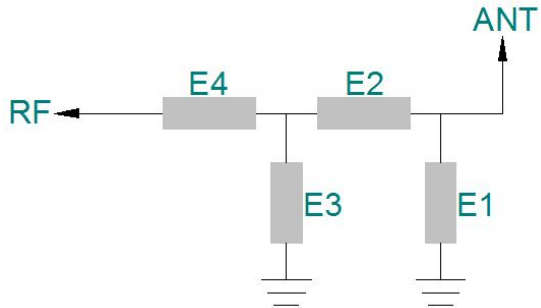
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天线位置

Antenna position





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

匹配电路原理图&位号图

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	15.83	CH1 11Mbps	-80.95
	2437	CH6 11Mbps	15.14	CH6 11Mbps	-79.76
	2467	CH11 11Mbps	15.57	CH11 11Mbps	-80.06
802.11g		TRP		TIS	
	2412	CH1 54Mbps	14.92	CH1 54Mbps	-67.71
	2437	CH6 54Mbps	14.95	CH6 54Mbps	-65.83
	2467	CH11 54Mbps	15.12	CH11 54Mbps	-66.02
802.11n		TRP		TIS	
	2412	CH1 MCS7	14.92	CH1 MCS7	-64.71
	2437	CH6 MCS7	14.76	CH6 MCS7	-64.88
	2467	CH11 MCS7	14.84	CH11 MCS7	-65.13
802.11a		TRP		TIS	
	5180	CH36 54Mbps	11.93	CH36 54Mbps	-70.62
	5300	CH60 54Mbps	11.50	CH60 54Mbps	-69.50
	5805	CH161 54Mbps	11.75	CH161 54Mbps	-71.64



Wifi/BT天线实测 Wifi Antenna test

WIFI

测试环境：开放空间

测试工具：Wifi Analytical Assistant

测试距离：10/m

信号强度：2.4G :-38dBm 5G:-44dBm

测试结果如右图

XYC2023	70:85:c4:73:7d:ad	-38	2437	6
@PHICOMM_60	Phicomm	-44	2427	4
XYC2023_5G	72:85:c4:93:7d:ad	-44	5300	60
ChinaNet-2jvE	TIANYI COMHEART	-48	2422	3
XYC2025-1	TP-LINK	-51	2442	7
HUAWEI-1F33TW	02:a3:26:30:52:c2	-58	2462	11
@PHICOMM_60_5G	Phicomm	-65	5220	44
< Hidden SSID >	96:fb:5d:79:6e:21	-74	2462	11

BT

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：10/m

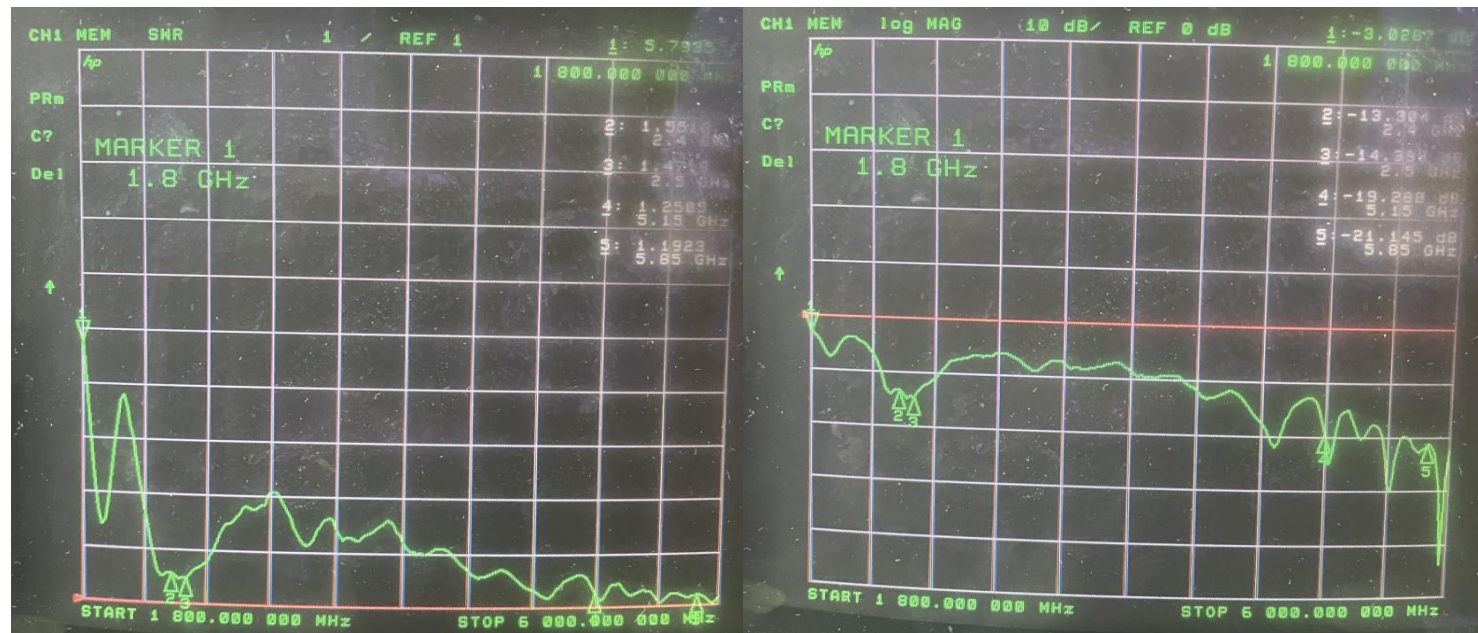
结果：播放音乐流畅，无杂音。



无源测试数据

Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.55	1.47	1.25	1.19
Return Loss (DB)	-13.30	-14.39	-19.28	-21.14



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无源测试数据

Passive test data

ANT1 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	47.14	-3.27	1.56	-0.59	30.324	16.811	1.56	-13.25
2410	44.13	-3.55	1.09	-1.06	28.119	16.015	1.09	-13.48
2420	46.65	-3.31	1.56	-0.59	29.791	16.862	1.56	-13.53
2430	46.06	-3.37	1.65	-0.5	29.356	16.704	1.65	-13.87
2440	46	-3.37	1.76	-0.39	29.222	16.783	1.76	-15.19
2450	45.49	-3.42	1.64	-0.51	28.433	17.058	1.64	-17.83
2460	44.49	-3.52	1.45	-0.7	27.259	17.228	1.45	-20.92
2470	45.35	-3.43	1.45	-0.7	27.223	18.123	1.45	-21.33
2480	47.79	-3.21	1.51	-0.64	28.367	19.426	1.51	-19.46
2490	50.08	-3	1.49	-0.66	29.439	20.639	1.49	-17.88
2500	43.44	-3.62	1.19	-0.96	25.41	18.03	1.19	-18.28



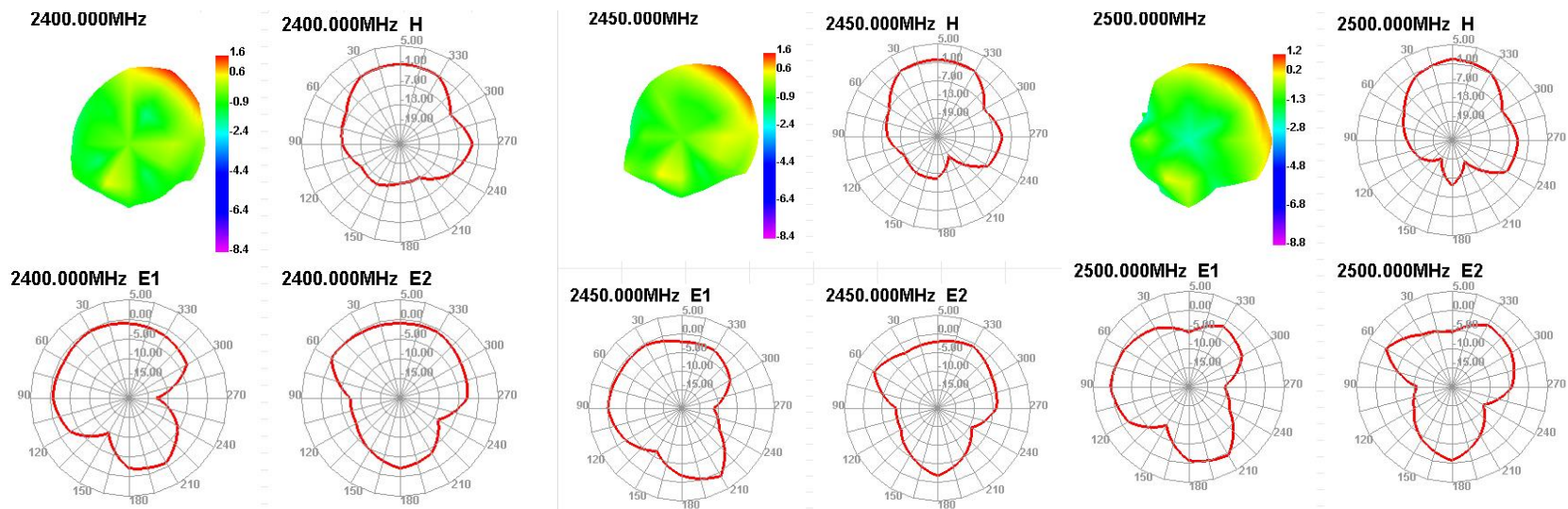
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无源测试数据
Passive test data

ANT1 Direction of figure(2.4/BT)





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无源测试数据
Passive test data

ANT1 GAIN&Efficiency-WIFI 5G

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	39.28	-4.06	-0.15	-2.3	23.733	15.545	-0.15	-20.49
5170	38.36	-4.16	-0.28	-2.43	22.901	15.461	-0.28	-16.55
5190	41.6	-3.81	-0.17	-2.32	24.435	17.16	-0.17	-19.61
5210	40.23	-3.95	-0.34	-2.49	23.434	16.796	-0.34	-19.42
5230	43.5	-3.61	0.1	-2.05	25.457	18.045	0.1	-16.44
5250	42.38	-3.73	-0.04	-2.19	24.859	17.516	-0.04	-16.07
5270	47.12	-3.27	0.55	-1.6	27.514	19.61	0.55	-13.6
5290	44.48	-3.52	0.43	-1.72	25.948	18.536	0.43	-11.71
5310	45.08	-3.46	0.64	-1.51	26.301	18.783	0.64	-11.95
5330	45.46	-3.42	0.66	-1.49	26.288	19.173	0.66	-15.63
5350	49.91	-3.02	1.05	-1.1	28.483	21.425	1.05	-13.81
5370	47.23	-3.26	1.32	-0.83	26.481	20.745	1.32	-13.36
5390	44.22	-3.54	1.45	-0.7	24.54	19.684	1.45	-16.66
5410	51.14	-2.91	2.24	0.09	28.361	22.781	2.24	-13.85
5430	46.2	-3.35	1.56	-0.59	25.627	20.576	1.56	-14.15
5450	49.31	-3.07	1.8	-0.35	27.315	21.991	1.8	-15.95
5470	46.3	-3.34	1.45	-0.7	25.731	20.572	1.45	-19.01
5490	48.05	-3.18	1.68	-0.47	26.884	21.166	1.68	-28.28
5510	48.46	-3.15	1.69	-0.46	26.812	21.646	1.69	-24.56
5530	50.13	-3	1.66	-0.49	27.161	22.964	1.66	-18.52
5550	53.4	-2.72	1.67	-0.48	28.968	24.437	1.67	-15.88
5570	50.05	-3.01	1.15	-1	27.429	22.625	1.15	-15.57
5590	53.77	-2.69	1.52	-0.63	29.383	24.383	1.52	-16.22
5610	48.34	-3.16	1.03	-1.12	26.112	22.227	1.03	-16.13
5630	55.06	-2.59	1.34	-0.81	29.802	25.256	1.34	-14.56
5650	48.24	-3.17	0.77	-1.38	26.339	21.898	0.77	-14.45
5670	52.8	-2.77	1.39	-0.76	28.523	24.281	1.39	-14.82
5690	48.71	-3.12	1.14	-1.01	25.826	22.883	1.14	-16.46
5710	50.27	-2.99	1.08	-1.07	26.206	24.059	1.08	-17.03
5730	53.76	-2.7	1.08	-1.07	27.929	25.829	1.08	-15.15
5750	48.61	-3.13	0.45	-1.7	25.188	23.422	0.45	-15.7
5770	51.02	-2.92	0.45	-1.7	26.249	24.774	0.45	-16.98
5790	47.86	-3.2	0.14	-2.01	24.419	23.442	0.14	-15.8
5810	50.81	-2.94	0.66	-1.49	25.948	24.864	0.66	-14.42
5830	49.59	-3.05	0.96	-1.19	25.349	24.245	0.96	-15.1
5850	50.49	-2.97	1.21	-0.94	25.623	24.865	1.21	-15.13



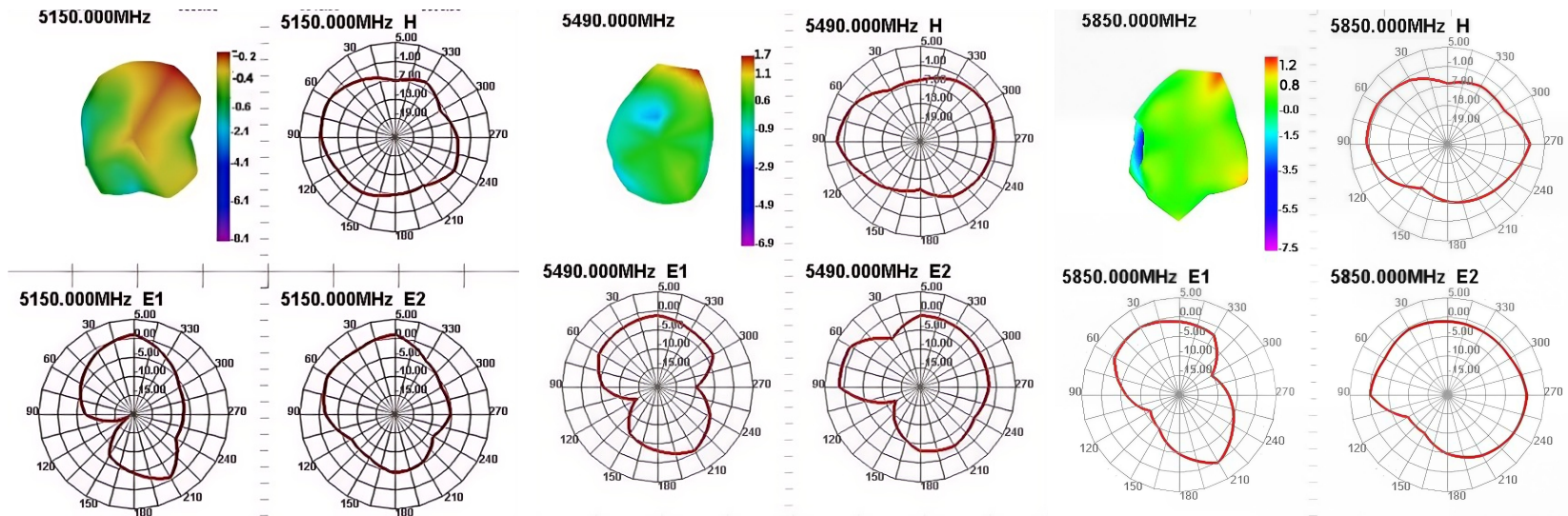
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无源测试数据
Passive test data

ANT1 Direction of figure(5G)



合作共赢

