



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: 美迪飞

MN: A7

RF: 戴进平

MD: 黄清清

MP: 19918388579

Date: 2025. 09. 18.

REV :V1. 0



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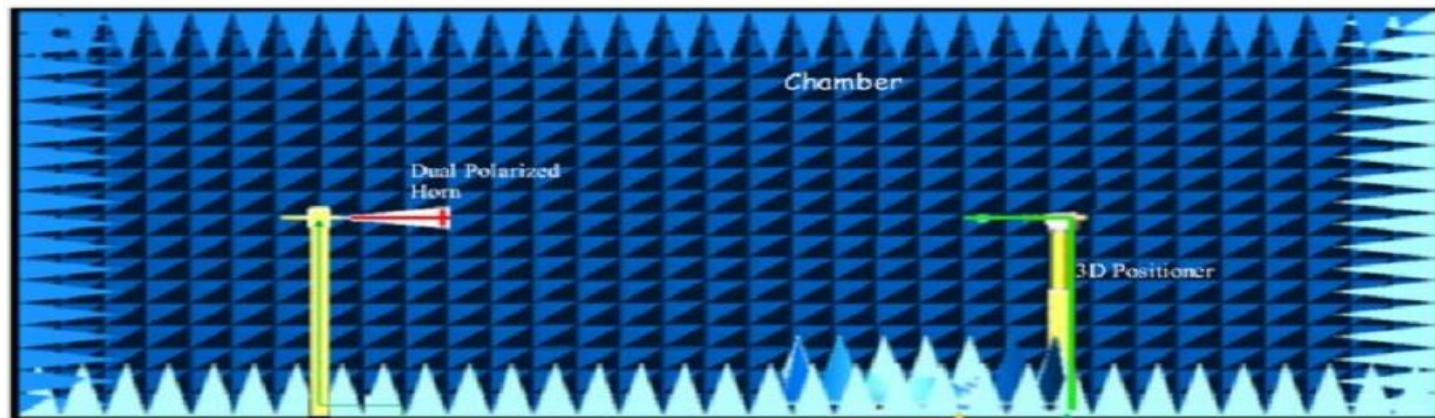
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测试信息

Test information

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



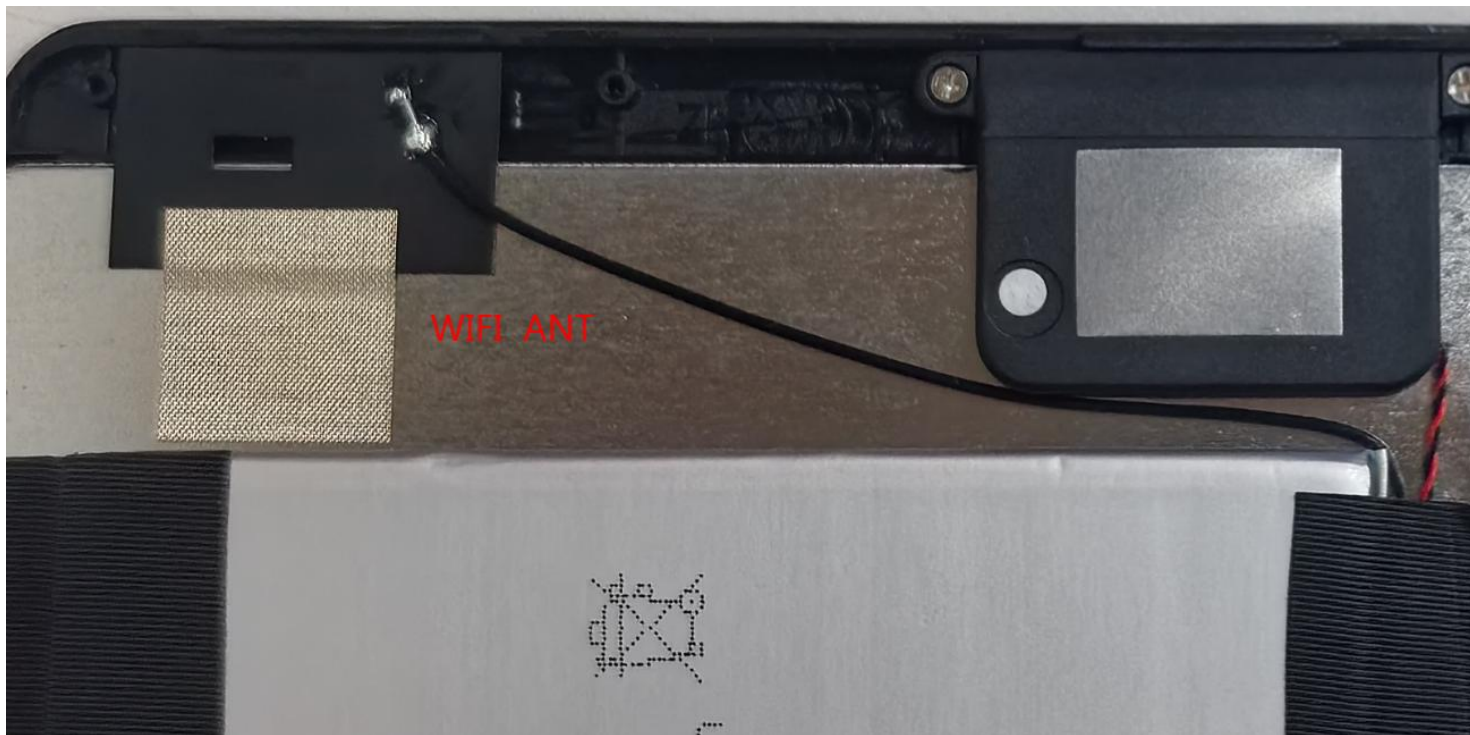
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天线位置

Antenna position



802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	11.68	CH1 11Mbps	-80.52
	2437	CH6 11Mbps	11.28	CH6 11Mbps	-79.61
	2467	CH11 11Mbps	11.87	CH11 11Mbps	-80.97
802.11a		TRP		TIS	
	5180	CH36 6Mbps	13.54	CH36 54Mbps	-72.72
	5300	CH60 6Mbps	15.12	CH60 54Mbps	-72.41
	5805	CH161 6Mbps	15.0	CH161 54Mbps	-72.94



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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：10m

信号强度：2.4G :-43dBm 5G:-52dBm

测试结果如右图

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。

SSID	DEVICE	RSSI	FREQUENCY	CHANNEL
XYC2022	TP-LINK	-39	2442	7
ChinaNet-Ht8u	00:6b:6f:5f:7e:e8	-40	5180	36
⌋	08:79:8c:1d:57:4c	-40	5180	36
⌋	08:79:8c:1d:57:48	-41	2437	6
⌋	00:6b:6f:5f:7e:e4	-51	2462	11
< Hidden SSID >	08:79:8c:1d:57:4f	-41	5180	36
TP-LINK_4160	TP-LINK	-43	2412	1
XYC2023	70:85:c4:73:7d:ad	-46	2432	5
TP-LINK_5G_4160	TP-LINK	-52	5805	161
TP-LINK_5G2_9660	TP-LINK	-53	5765	153
XYC2022-5G	TP-LINK	-55	5180	36
XYC2023_5G	72:85:c4:93:7d:ad	-55	5320	64
HUAWEI-Wi-Fi5	02:4a:6a:6e:05:a5	-55	5765	153
HUAWEI2023	a2:fc:3b:6d:22:a9	-56	2437	6
HUAWEI	02:4a:6a:6e:05:9a	-56	5765	153
DIRECT-dc-HP M281 LaserJet	8e:c8:4b:78:c2:dc	-57	2437	6
HUAWEI2023_5G	a2:fc:3b:6d:22:ad	-64	5180	36
augvape	08:79:8c:24:47:fc	-66	2462	11
⌋	00:6b:6f:67:4e:30	-74	2412	1
< Hidden SSID >	a2:2b:a6:cf:a9:e7	-68	2437	6
MOSH	3c:6a:48:67:cb:ec	-69	2437	6
⌋	3c:6a:48:67:cb:ee	-76	5785	157
< Hidden SSID >	3e:6a:48:65:cb:ec	-70	2437	6
Xiaomi_C502	a4:39:b3:b5:c5:03	-70	2442	7
DESKTOP-6HATVNH 0660	2a:6b:35:62:87:61	-72	2412	1

环境处理

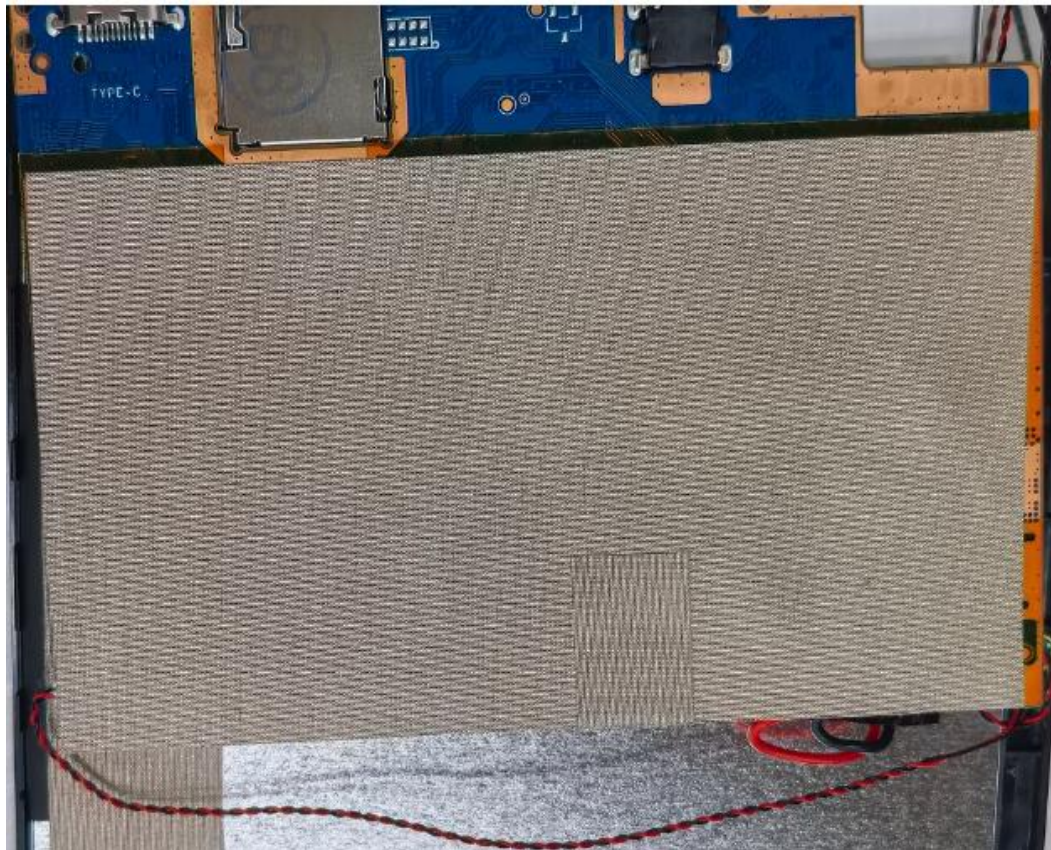
Environmental treatment



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环境处理

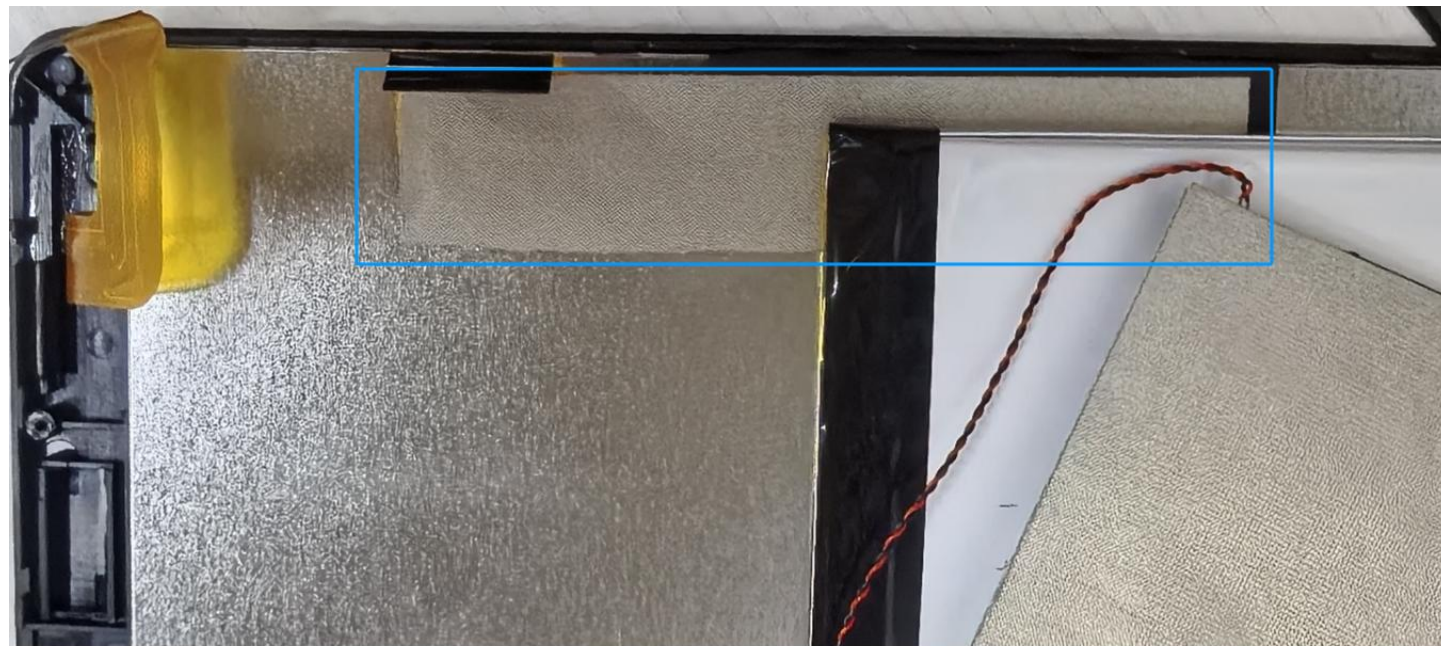
Environmental treatment



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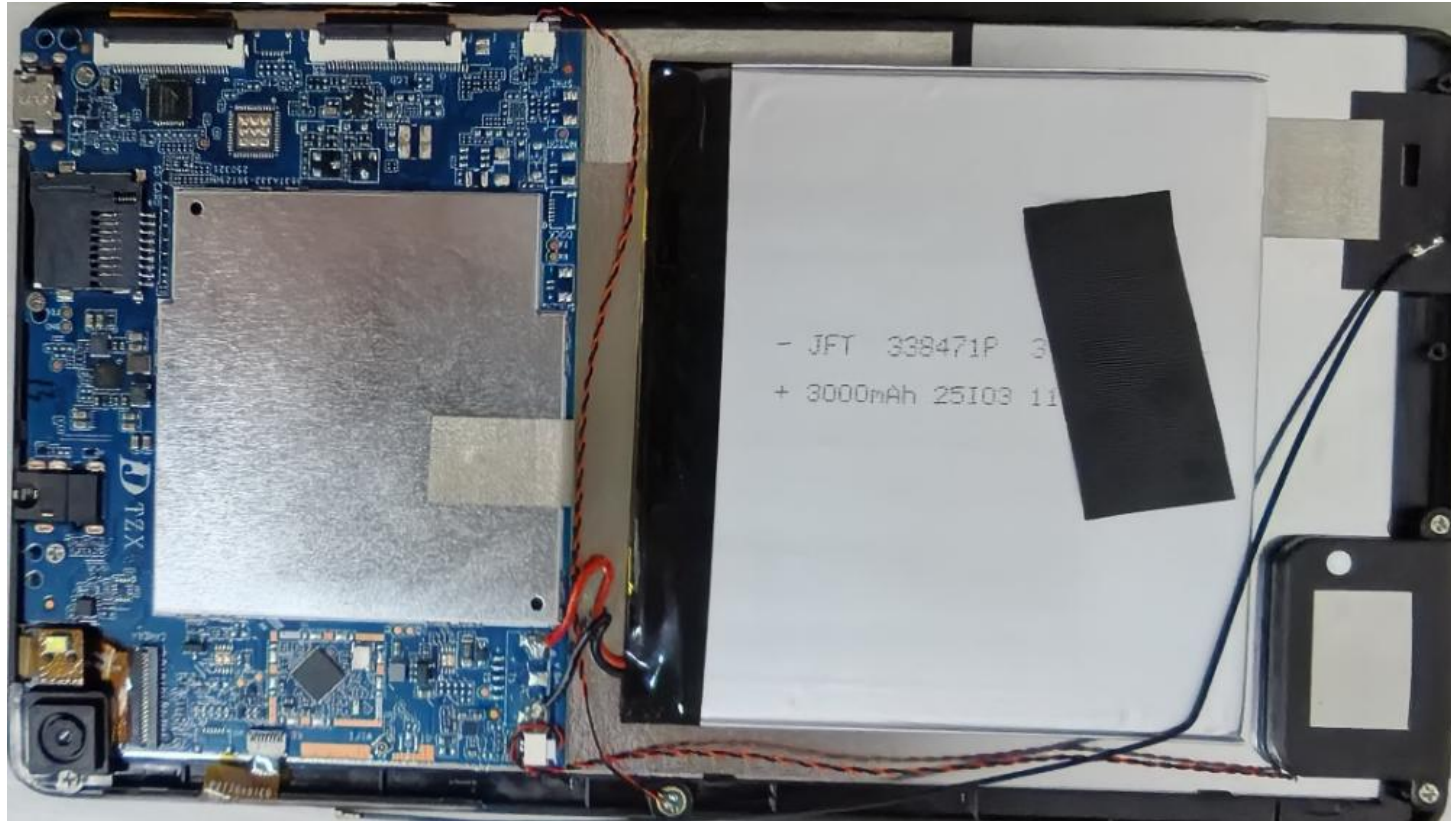
环境处理

Environmental treatment



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无源测试数据

Passive test data

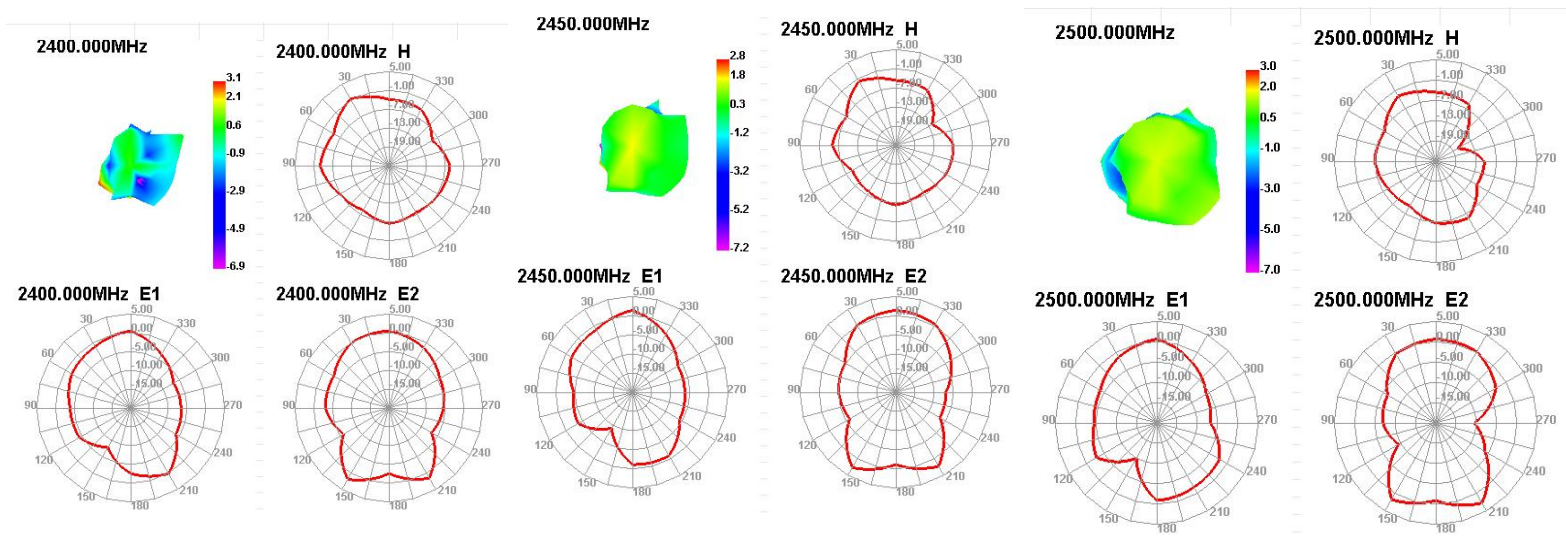
ANT1 GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	48.21	-3.17	3.1	0.95	23.037	25.175
2410	48.23	-3.17	3.14	0.99	22.727	25.507
2420	47.75	-3.21	3.11	0.96	22.437	25.31
2430	47.98	-3.19	3.05	0.9	22.629	25.346
2440	49.96	-3.01	2.98	0.83	23.781	26.18
2450	51.11	-2.91	2.8	0.65	24.542	26.572
2460	51.22	-2.91	2.69	0.54	24.661	26.556
2470	51.5	-2.88	2.68	0.53	24.566	26.936
2480	51.53	-2.88	2.58	0.43	24.177	27.357
2490	49.96	-3.01	2.7	0.55	22.956	27.004
2500	51.34	-2.9	3.05	0.9	23.101	28.238



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 (dEd)	UHS (%)	DHS (%)
5150	44.02	-3.56	2.71	0.56	20.104	23.915
5170	45.96	-3.38	2.58	0.43	20.903	25.053
5190	42.58	-3.71	1.98	-0.17	19.199	23.378
5210	45.94	-3.38	2.04	-0.11	20.561	25.381
5230	46.16	-3.36	1.74	-0.41	20.623	25.539
5250	42	-3.77	1.19	-0.96	18.616	23.381
5270	45.7	-3.4	1.38	-0.77	20.229	25.47
5290	44.16	-3.55	1.11	-1.04	19.528	24.637
5310	49.05	-3.09	1.55	-0.6	21.818	27.231
5330	46.71	-3.31	1.52	-0.63	21.123	25.585
5350	51.04	-2.92	2.09	-0.06	23.319	27.721
5370	47.78	-3.21	1.87	-0.28	22.324	25.453
5390	51.59	-2.87	2.12	-0.03	24.644	26.943
5410	57.01	-2.44	2.58	0.43	27.752	29.259
5430	55.44	-2.56	2.71	0.56	27.676	27.762
5450	50.92	-2.93	1.96	-0.19	25.84	25.079
5470	53.88	-2.69	1.95	-0.2	27.392	26.492
5490	52.34	-2.81	1.73	-0.42	26.742	25.596
5510	47.12	-3.27	0.86	-1.29	24.344	22.78
5530	46.2	-3.35	0.89	-1.26	23.735	22.466
5550	45.63	-3.41	0.94	-1.21	23.4	22.232
5570	48.62	-3.13	1.61	-0.54	25.582	23.042
5590	43.69	-3.6	1.11	-1.04	23.4	20.29
5610	47.28	-3.25	1.15	-1	25.528	21.757
5630	42.67	-3.7	0.51	-1.64	23.337	19.338
5650	53.86	-2.69	1.51	-0.64	30.166	23.695
5670	46.79	-3.3	0.67	-1.48	26.778	20.017
5690	53.63	-2.71	0.91	-1.24	31.117	22.508
5710	46.59	-3.32	0.5	-1.65	27.302	19.29
5730	54.28	-2.65	1.09	-1.06	32.303	21.98
5750	51.06	-2.92	1.01	-1.14	30.744	20.312
5770	49.71	-3.04	1.03	-1.12	30.016	19.694
5790	45.47	-3.42	0.9	-1.25	27.332	18.143
5810	46.66	-3.31	1	-1.15	27.803	18.856
5830	45.83	-3.39	0.7	-1.45	26.851	18.98
5850	45.85	-3.39	0.55	-1.6	26.494	19.359



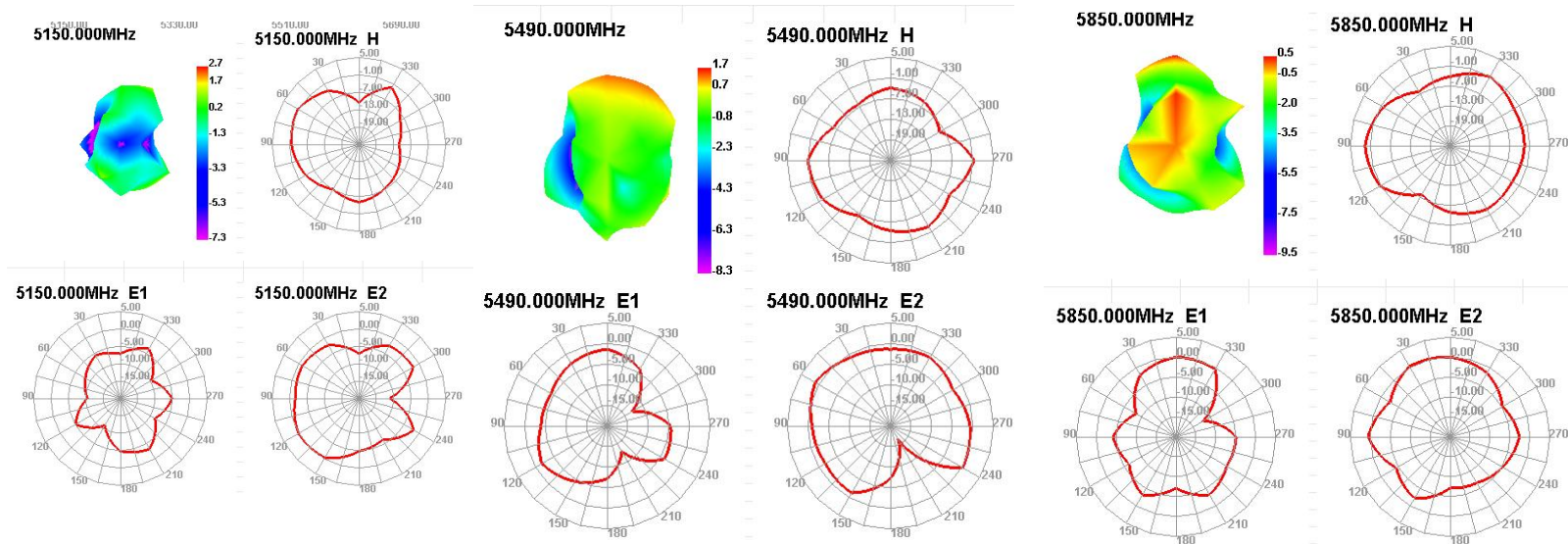
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Passive test data

ANT1 Direction of figure(5G)



合作共赢

