



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

Unit 610-614, Building C, Jiansheng Fortune Plaza,
Maanshan Community, Shajing Street, Bao'an District,
Shenzhen

TC: 亿莱顿

MN: KDS1585

RF: 陈鑫

MD: 黄清清

MP: 13184572550

Date: 2025. 11. 28.

REV :V1. 0



ANTENNA

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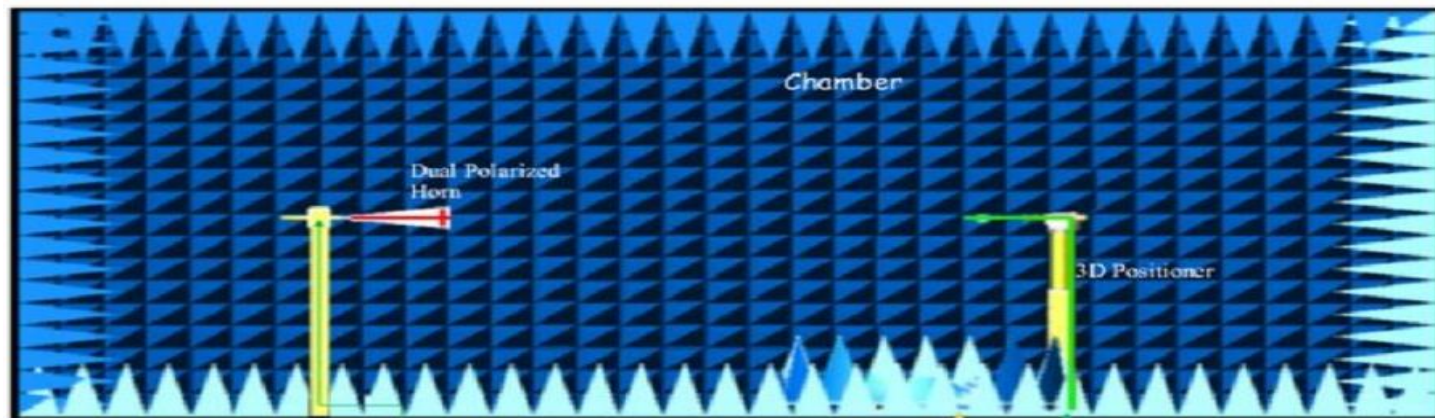
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测试信息

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



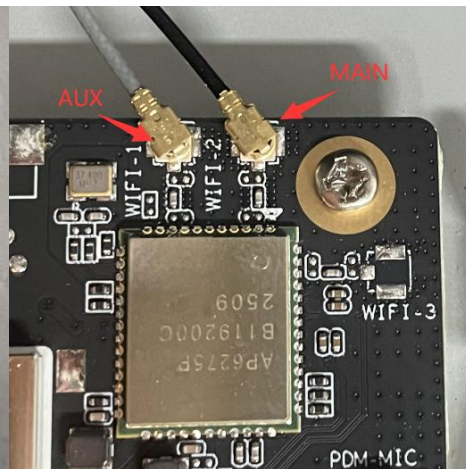
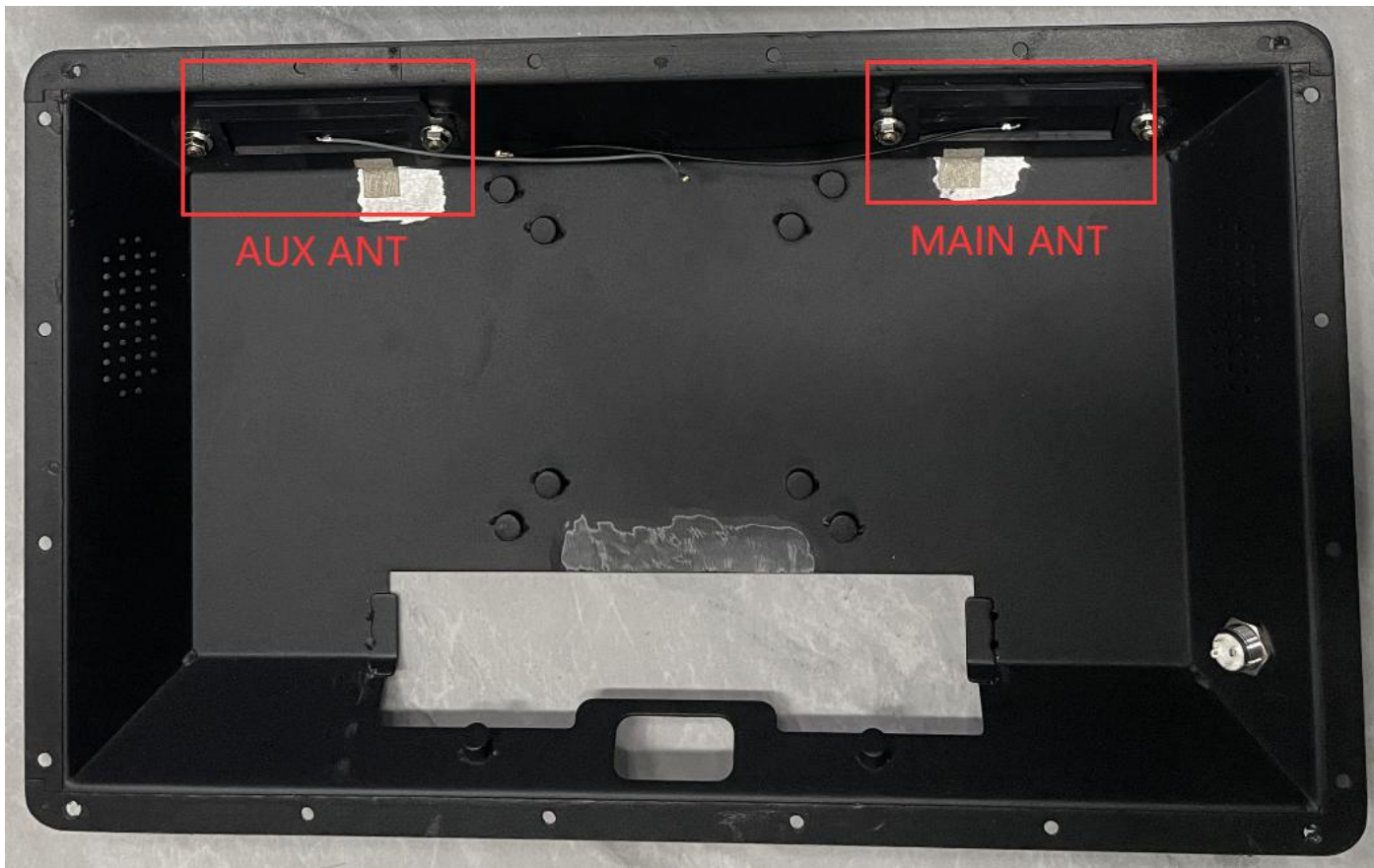
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天线位置

Antenna position





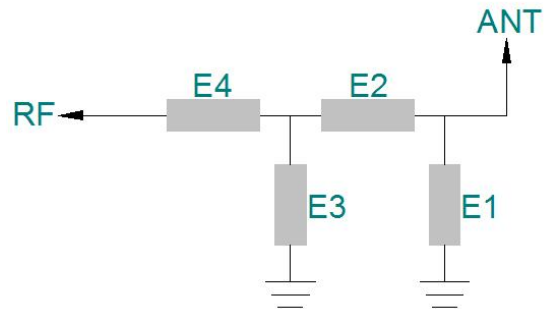
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匹配电路 Matching circuit



	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	10.97	CH1 11Mbps	-77.85
	2437	CH6 11Mbps	10.66	CH6 11Mbps	-76.23
	2467	CH11 11Mbps	10.83	CH11 11Mbps	-77.34
802.11g		TRP		TIS	
	2412	CH1 54Mbps	11.42	CH1 54Mbps	-65.36
	2437	CH6 54Mbps	11.39	CH6 54Mbps	-64.93
	2467	CH11 54Mbps	11.52	CH11 54Mbps	-65.51
802.11n		TRP		TIS	
	2412	CH1 MCS7	11.98	CH1 MCS7	-63.50
	2437	CH6 MCS7	11.87	CH6 MCS7	-63.88
	2467	CH11 MCS7	11.72	CH11 MCS7	-64.42
802.11a		TRP		TIS	
	5180	CH36 54Mbps	13.17	CH36 54Mbps	-70.91
	5300	CH60 54Mbps	13.31	CH60 54Mbps	-71.75
	5805	CH161 54Mbps	13.22	CH161 54Mbps	-72.42



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 :-49dBm 5G:-50dBm

测试结果如右图

名称	设备	强度	频率	信道
XYC2025	c4:b2:5b:28:ee:de	-33	5260	52
—	c6:b2:5b:88:ee:de	-45	2412	1
—	c4:b2:5b:29:29:ef	-53	5805	161
—	c6:b2:5b:89:29:ef	-61	2412	1
< Hidden SSID >	c6:b2:5b:58:ee:de	-34	5260	52
< Hidden SSID >	c6:b2:5b:d8:ee:de	-45	2412	1
< Hidden SSID >	c6:b2:5b:59:29:ef	-48	5805	161
XYC2023	70:85:c4:73:7d:ad	-49	2437	6
< Hidden SSID >	72:85:c4:d3:7d:ad	-49	5300	60
< Hidden SSID >	72:85:c4:53:7d:ad	-50	2437	6
XYC2023_5G	72:85:c4:93:7d:ad	-50	5300	60
ChinaNet-2jvE	TIANYI COMHEART	-54	2427	4
@PHICOMM_60	Phicomm	-55	2427	4
NETGEAR95-5G	6c:cd:d6:07:22:e7	-61	5220	44
@PHICOMM_60_5G	Phicomm	-64	5220	44
XYC2025-5G	TP-LINK	-66	5200	40
HUAWEI-1F33TW_5G	02:a3:26:30:52:c6	-69	5220	44
XYC2025-1	TP-LINK	-70	2442	7
NETGEAR95	6c:cd:d6:07:22:e8	-70	2457	10
HUAWEI-1F33TW	02:a3:26:30:52:c2	-73	2462	11
< Hidden SSID >	c8:cd:55:74:1d:24	-74	5280	56
Lingyan	f4:84:8d:ce:4b:2e	-76	2437	6
—	f4:84:8d:ce:49:7a	-80	2437	6
hijw	a0:10:77:0f:74:8e	-80	2437	6

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。

环境处理

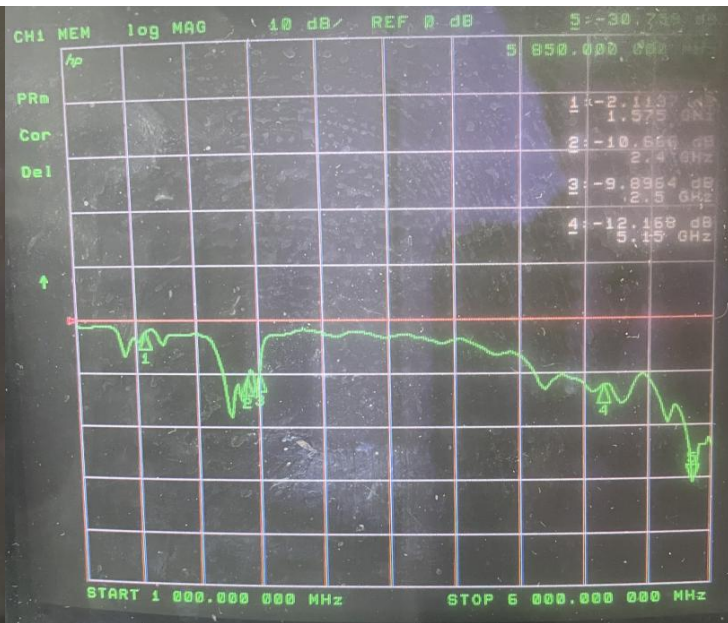
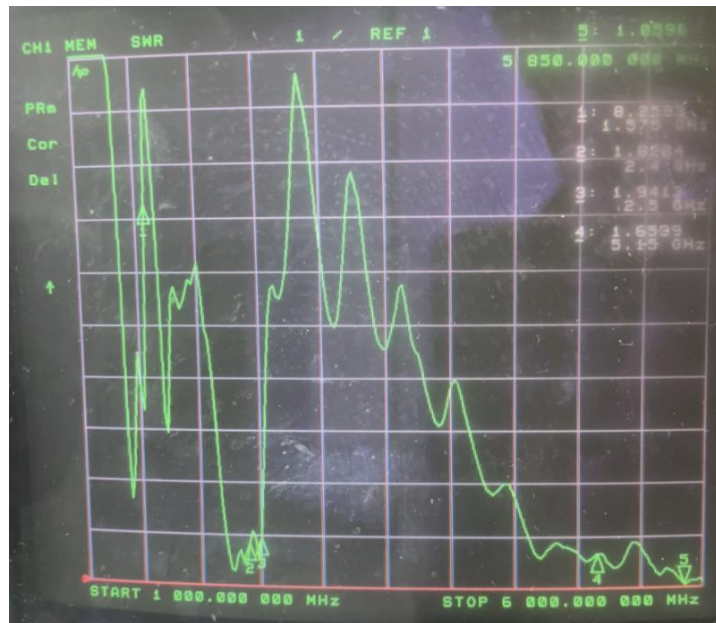
Environmental treatment





无源测试数据 Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.82	1.94	1.65	1.05
Return Loss (DB)	-10.66	-9.89	-12.16	-30.75



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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	32.5	-4.88	0.33	-1.82	21.71	10.791
2410	31.64	-5	-0.06	-2.21	20.78	10.857
2420	34.31	-4.65	0.22	-1.93	22.283	12.031
2430	34.67	-4.6	0	-2.15	22.261	12.405
2440	35.8	-4.46	-0.02	-2.17	22.761	13.04
2450	34.7	-4.6	-0.14	-2.29	21.84	12.861
2460	35.93	-4.45	-0.12	-2.27	22.69	13.24
2470	37.61	-4.25	0.22	-1.93	23.975	13.639
2480	34.61	-4.61	0.1	-2.05	22.277	12.328
2490	31.45	-5.02	-0.25	-2.4	20.308	11.142
2500	32.69	-4.86	-0.06	-2.21	21.01	11.678



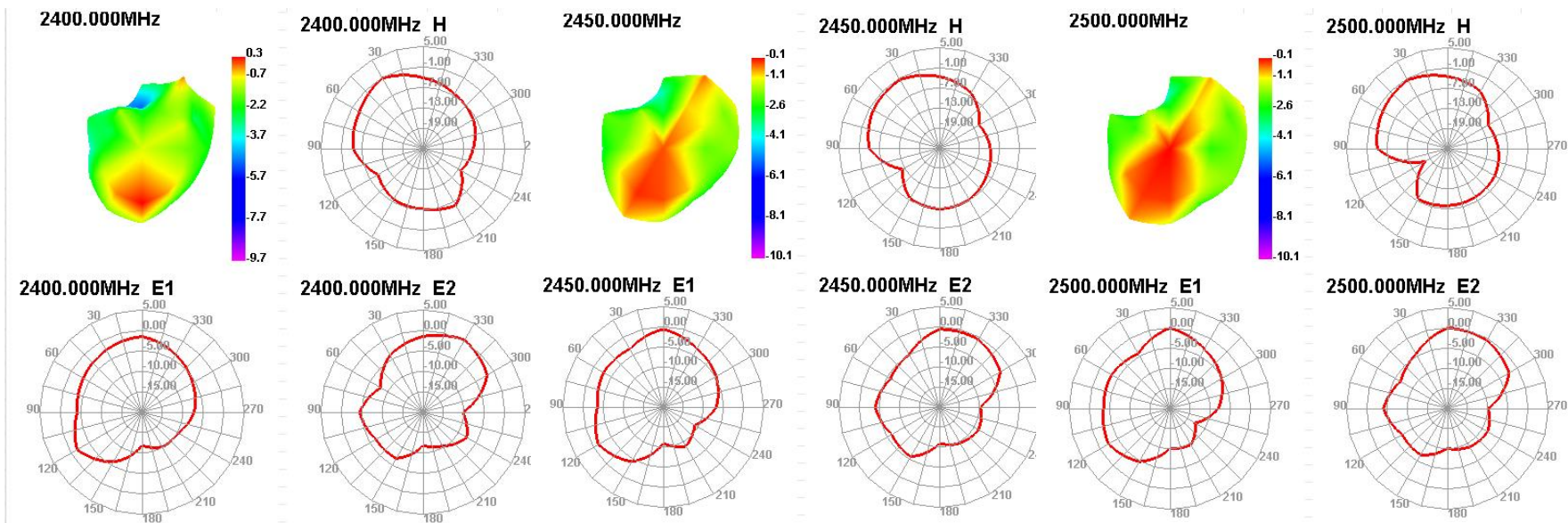
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无源测试数据
Passive test data

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 (dEd)	UHS (%)	DHS (%)
5150	32.61	-4.87	2.83	0.68	8.257	24.356
5170	30.9	-5.1	2.68	0.53	7.736	23.165
5190	35.48	-4.5	3.58	1.43	8.94	26.536
5210	34.59	-4.61	3.73	1.58	8.722	25.864
5230	37.86	-4.22	4.01	1.86	9.454	28.406
5250	40.74	-3.9	4.24	2.09	10.235	30.51
5270	44.1	-3.56	4.86	2.71	11.148	32.95
5290	48.71	-3.12	5.29	3.14	12.559	36.149
5310	44.47	-3.52	4.69	2.54	11.762	32.704
5330	45.38	-3.43	4.59	2.44	12.1	33.284
5350	47.56	-3.23	4.86	2.71	12.77	34.795
5370	46.66	-3.31	5.01	2.86	12.545	34.115
5390	45.03	-3.46	4.68	2.53	12.356	32.678
5410	52.46	-2.8	5.16	3.01	14.443	38.018
5430	49.01	-3.1	5.03	2.88	13.287	35.726
5450	52.03	-2.84	5.51	3.36	13.799	38.228
5470	49.76	-3.03	5.3	3.15	13.281	36.481
5490	48.77	-3.12	4.98	2.83	13.174	35.6
5510	51.13	-2.91	5.17	3.02	13.899	37.23
5530	50.55	-2.96	5.28	3.13	13.548	37.005
5550	55.75	-2.54	5.79	3.64	14.978	40.773
5570	53.58	-2.71	5.31	3.16	14.91	38.675
5590	54.93	-2.6	5.2	3.05	15.537	39.39
5610	51.22	-2.91	4.95	2.8	14.469	36.748
5630	48.27	-3.16	4.8	2.65	13.737	34.535
5650	49.28	-3.07	4.67	2.52	14.384	34.901
5670	52	-2.84	4.71	2.56	15.722	36.283
5690	46.98	-3.28	4.49	2.34	14.12	32.863
5710	51.69	-2.87	5.09	2.94	15.614	36.077
5730	50.57	-2.96	5.07	2.92	15.491	35.074
5750	49.08	-3.09	4.76	2.61	15.634	33.443
5770	50.4	-2.98	4.85	2.7	16.259	34.145
5790	46.84	-3.29	4.57	2.42	15.146	31.691
5810	48.1	-3.18	4.73	2.58	15.442	32.653
5830	49.94	-3.02	4.81	2.66	16.263	33.673
5850	51.07	-2.92	4.69	2.54	17.039	34.03



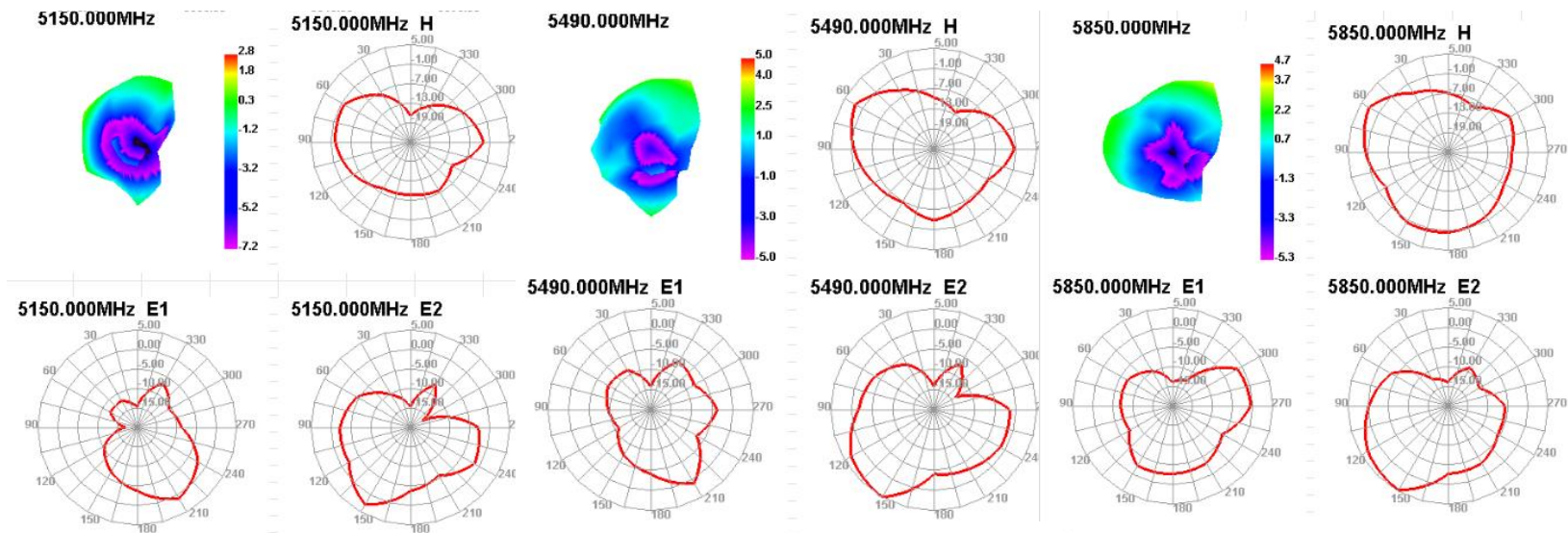
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无源测试数据
Passive test data

ANT1 Direction of figure(5G)

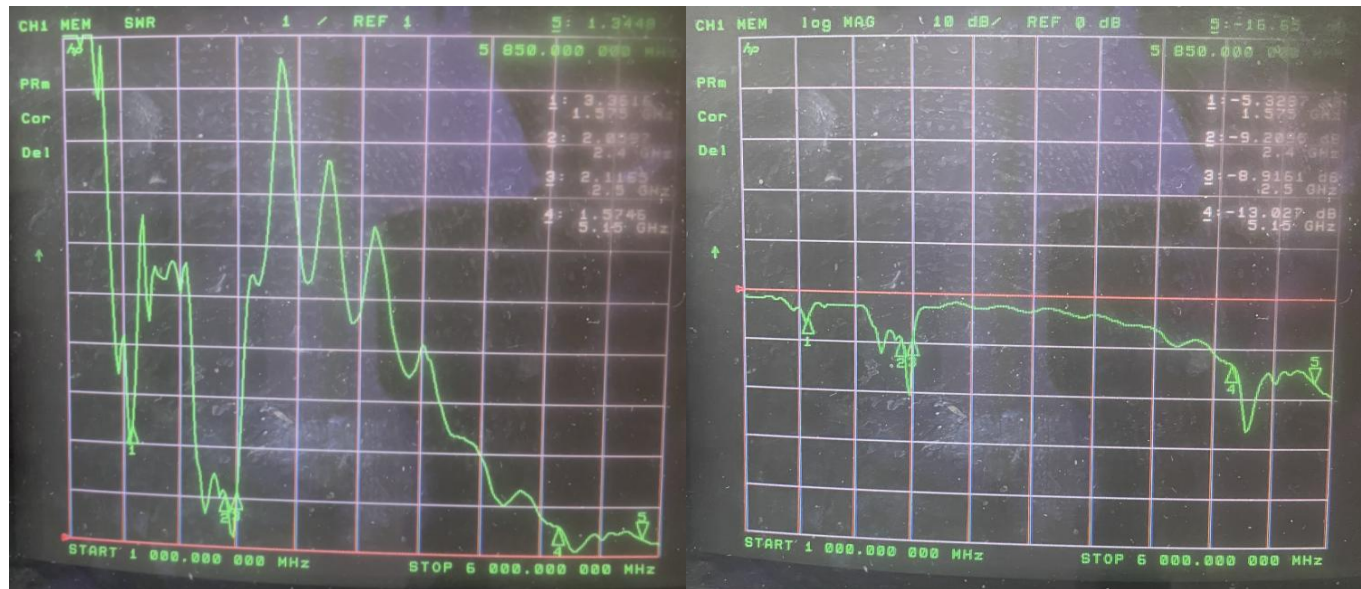




无源测试数据

Passive test data

ANT2 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500	5150	5850
VSWR	2.05	2.11	1.57	1.34
Return Loss (DB)	-9.20	-8.91	-13.02	-16.65



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无源测试数据

Passive test data

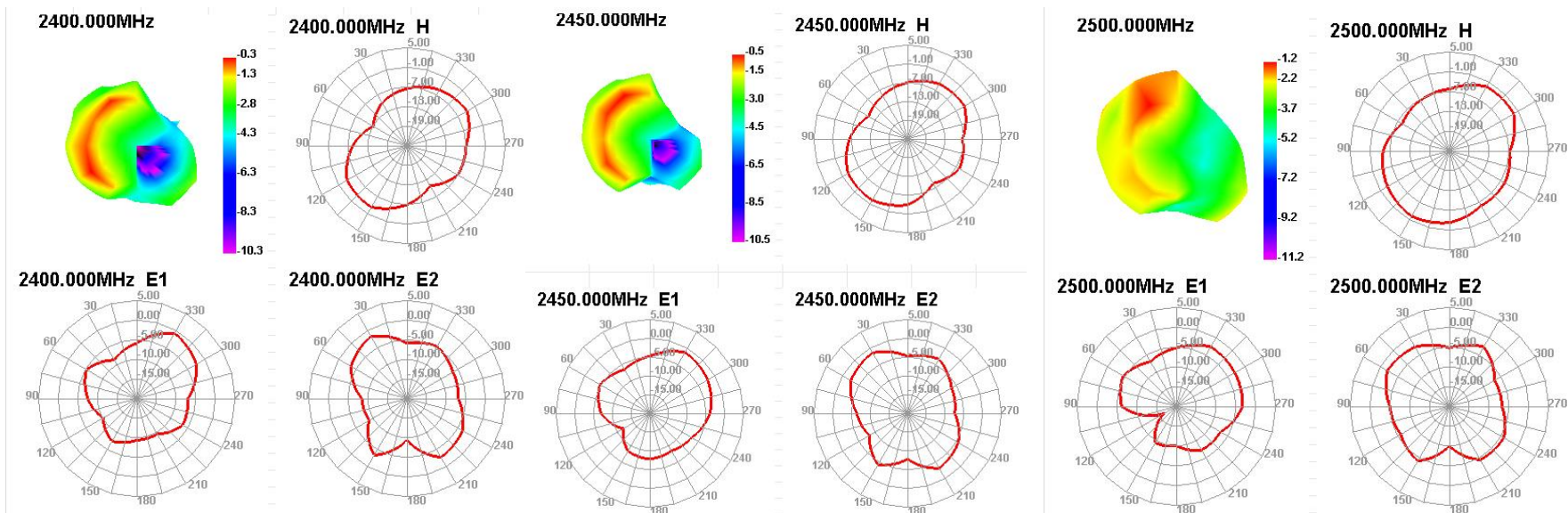
ANT2 GAIN&Efficiency

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	30.34	-5.18	-0.27	-2.42	18.066	12.278
2410	29.61	-5.29	-0.47	-2.62	17.742	11.867
2420	32.41	-4.89	-0.37	-2.52	19.653	12.759
2430	31.39	-5.03	-0.69	-2.84	19.505	11.884
2440	31.43	-5.03	-0.69	-2.84	19.724	11.701
2450	32.32	-4.91	-0.51	-2.66	20.402	11.917
2460	33.6	-4.74	-0.33	-2.48	20.988	12.611
2470	34.25	-4.65	-0.58	-2.73	21.153	13.093
2480	34.58	-4.61	-0.75	-2.9	21.124	13.456
2490	34.87	-4.58	-0.86	-3.01	21.086	13.785
2500	32.36	-4.9	-1.19	-3.34	19.581	12.778



无源测试数据 Passive test data

ANT2 Direction of figure





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无源测试数据

Passive test data

ANT2 GAIN&Efficiency-WIFI 5G

Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)
5150	34.55	-4.62	3.31	1.16	22.811	11.737
5170	34.74	-4.59	3.38	1.23	22.951	11.791
5190	37.03	-4.31	3.65	1.5	24.568	12.459
5210	39.68	-4.01	4.05	1.9	26.509	13.171
5230	37.2	-4.29	3.69	1.54	25.019	12.182
5250	45.71	-3.4	4.56	2.41	30.885	14.826
5270	39.96	-3.98	4.03	1.88	27.042	12.921
5290	47.54	-3.23	4.86	2.71	32.285	15.259
5310	40.12	-3.97	4.1	1.95	27.22	12.9
5330	39.81	-4	3.96	1.81	26.779	13.029
5350	40.8	-3.89	4.06	1.91	27.304	13.495
5370	37.13	-4.3	3.69	1.54	24.841	12.288
5390	36.47	-4.38	3.73	1.58	24.428	12.046
5410	40.35	-3.94	4.11	1.96	27.078	13.276
5430	41.86	-3.78	4.22	2.07	28.054	13.81
5450	43.33	-3.63	4.62	2.47	29.219	14.11
5470	43.95	-3.57	4.84	2.69	29.848	14.101
5490	42.95	-3.67	4.83	2.68	29.159	13.795
5510	46.62	-3.31	5.34	3.19	31.682	14.934
5530	47.99	-3.19	5.59	3.44	32.809	15.178
5550	53.26	-2.74	6.04	3.89	36.872	16.384
5570	52.73	-2.78	5.88	3.73	36.638	16.096
5590	53.48	-2.72	5.8	3.65	37.094	16.385
5610	53.19	-2.74	5.75	3.6	36.962	16.232
5630	47.45	-3.24	5.36	3.21	33.255	14.192
5650	50.19	-2.99	5.68	3.53	35.342	14.85
5670	53.92	-2.68	5.9	3.75	37.751	16.166
5690	46.6	-3.32	5.32	3.17	32.382	14.216
5710	53.2	-2.74	6.03	3.88	37.123	16.079
5730	51.34	-2.9	6.02	3.87	36.096	15.244
5750	49.9	-3.02	5.94	3.79	35.026	14.871
5770	54.76	-2.62	6.31	4.16	38.003	16.761
5790	50.31	-2.98	6.04	3.89	34.78	15.526
5810	53.94	-2.68	6.44	4.29	37.505	16.438
5830	53.85	-2.69	6.47	4.32	37.564	16.284
5850	59.19	-2.28	6.82	4.67	41.041	18.147



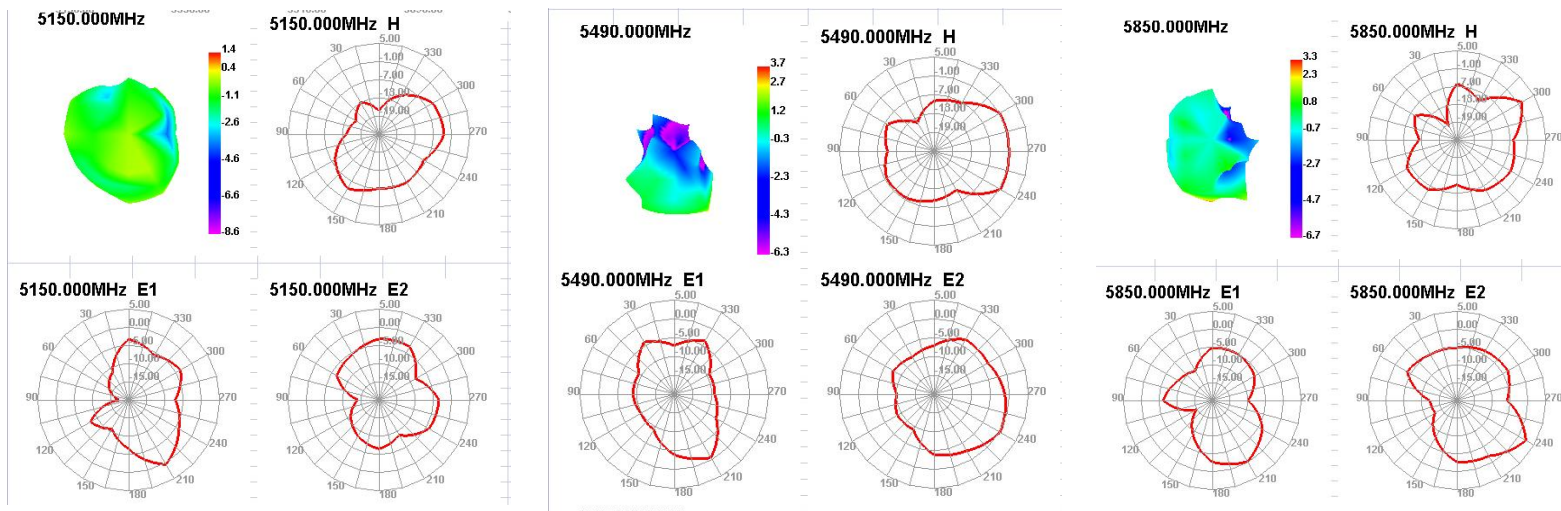
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无源测试数据
Passive test data

ANT2 Direction of figure(5G)

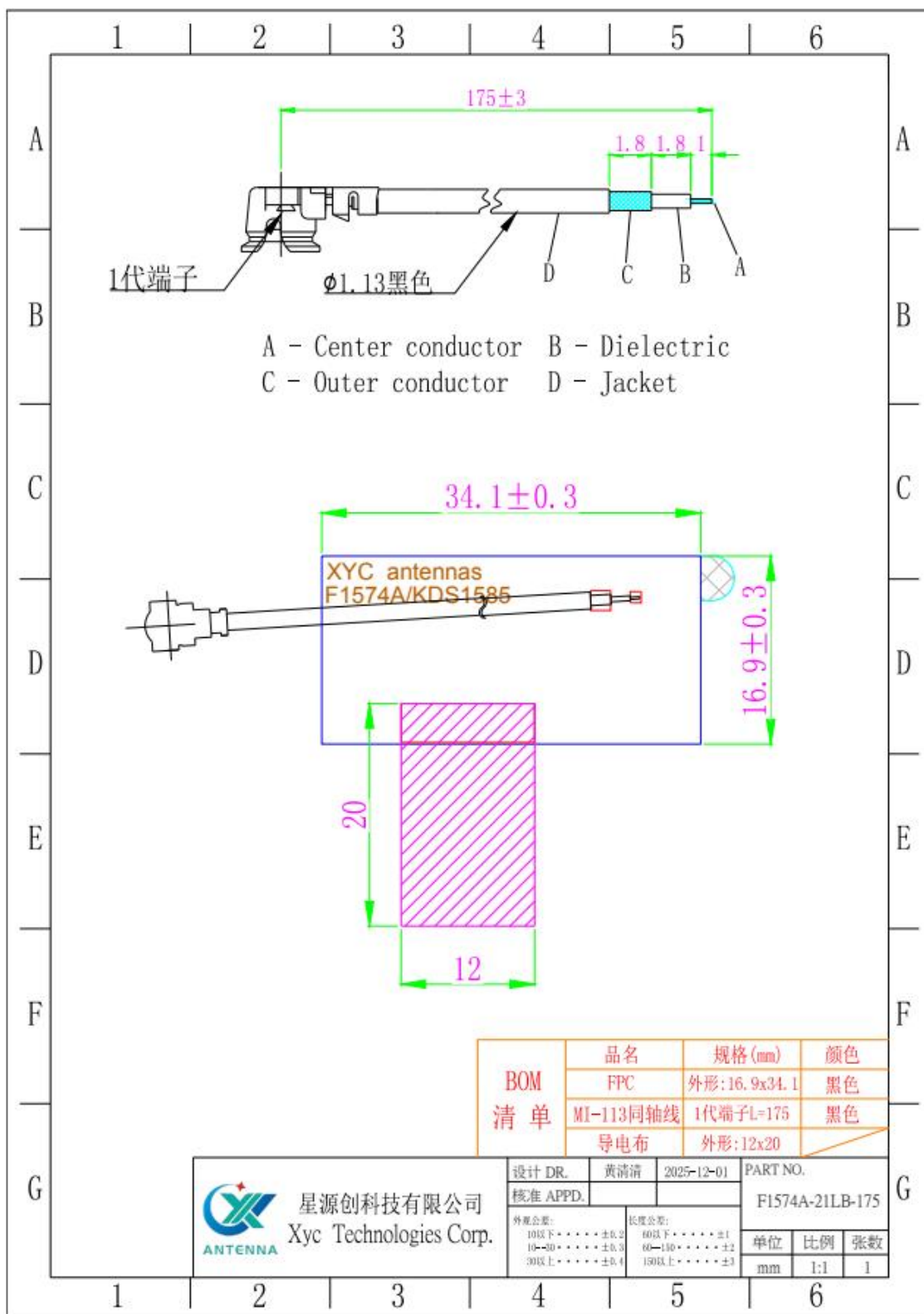




深圳市星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Antenna Assembly



地址: 深圳市宝安区沙井街道马安山社区马安山锦胜财富广场C栋610-614

Address: Room 610-614, Building C, Ma'an Shan Jinsheng Fortune Plaza, Ma'an Shan Community, Shajing Sub-district, Bao'an District, Shenzhen City Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



1代端子

$\phi 1.13$ 灰色

A - Center conductor B - Dielectric
C - Outer conductor D - Jacket

XYC antennas
F1574/KDS1585

端口朝下

BOM 清单		品名	规格 (mm)	颜色
		FPC	外形: 16.9x34.1	黑色
		MI-113同轴线	1代端子L=125	灰色
		导电布	外形: 12x20	

设计 DR.	黄清清	2025-12-01	PART NO.	
核准 APPD.			F1574-21RG-125	
外观公差:		长度公差:		
10以下 ±0.2		60以下 ±1		
10~30 ±0.3		60~150 ±2		
30以上 ±0.4		150以上 ±3		
单位	比例	张数		
mm	1:1	1		

Address: Room 610-614, Building C, Ma ' anshan Jinsheng Fortune Plaza, Ma ' anshan Community, Shajing Sub-district, Bao ' an District, Shenzhen City Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com

合作共赢

