



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: 英卡

MN: T60-PRO

RF: 戴进平

MD: 黄清清

MP: 19918388579

Date: 2025. 6. 18.

REV :V1. 1



ANTENNA

深圳市星源创科技有限公司

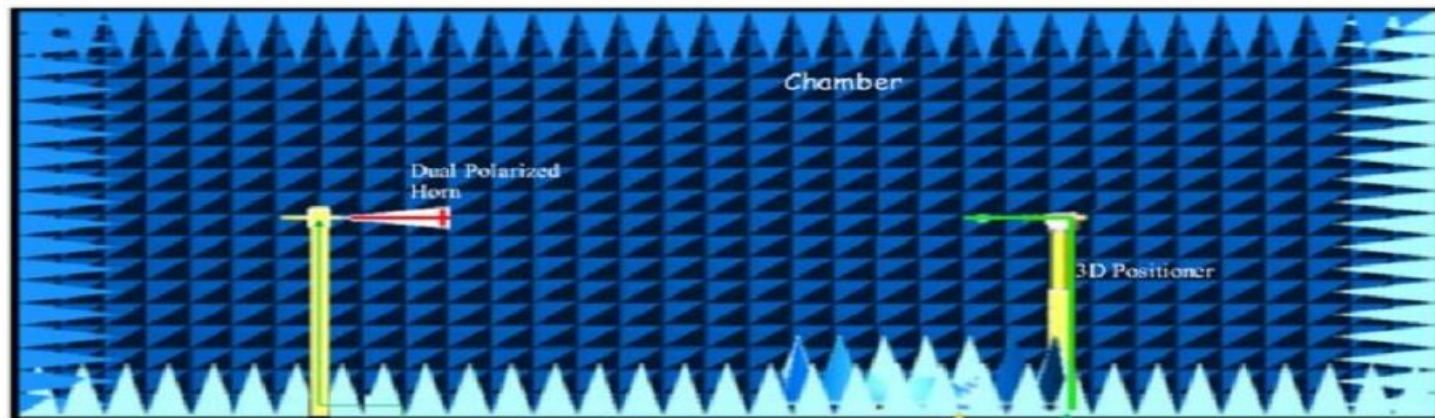
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测试信息

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	1.575G	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

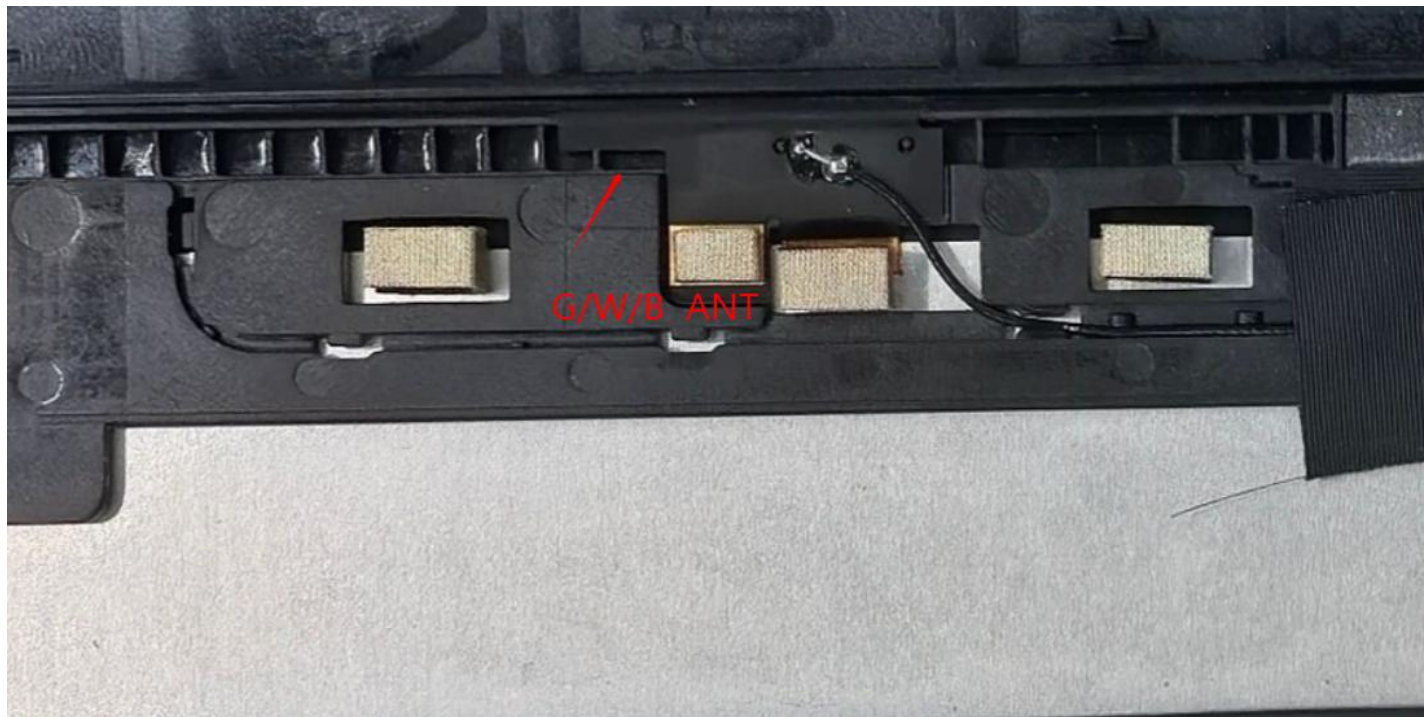
GPIB Link

Optical Link

Serial Link

天线位置

Antenna position



802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	13.74	CH1 11Mbps	-82.47
	2437	CH6 11Mbps	13.65	CH6 11Mbps	-83.38
	2467	CH11 11Mbps	14.68	CH11 11Mbps	-83.07
802.11g		TRP		TIS	
	2412	CH1 54Mbps	10.29	CH36 54Mbps	-70.08
	2437	CH6 54Mbps	10.03	CH60 54Mbps	-71.01
	2467	CH11 54Mbps	10.64	CH161 54Mbps	-70.93
802.11a		TRP		TIS	
	5180	CH36 54Mbps	10.52	CH36 54Mbps	-71.38
	5300	CH60 54Mbps	10.83	CH60 54Mbps	-72.86
	5805	CH161 54Mbps	10.75	CH161 54Mbps	-71.94
802.11g/n		TRP		TIS	
	2412	CH1 MCS7	10.15	CH1 MCS7	-64.82
	2437	CH6 MCS7	10.03	CH6 MCS7	-65.37
	2467	CH11 MCS7	10.23	CH11 MCS7	-65.58

GPS冷启动实测效果以下：
CN值40以上3+颗
CN值35以上5+颗
实际定位8+颗

备注：
GPS搜星测试。会因时间段
及地域而存在差异. 以上数
据为我司测试（空旷地带）
最佳数据





Environmental treatment



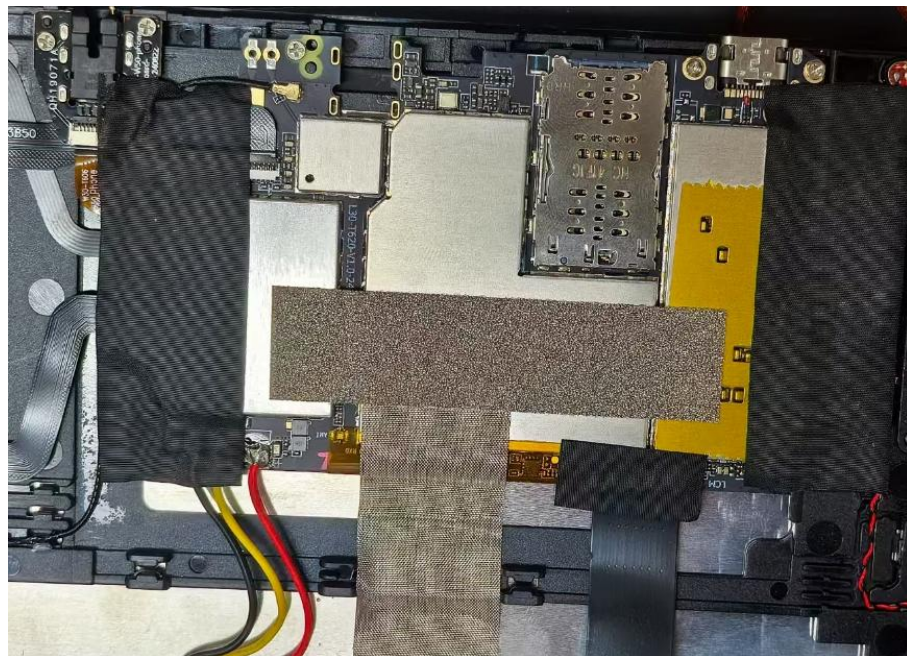
环境处理

Environmental treatment



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环境处理

Environmental treatment





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环境处理

Environmental treatment

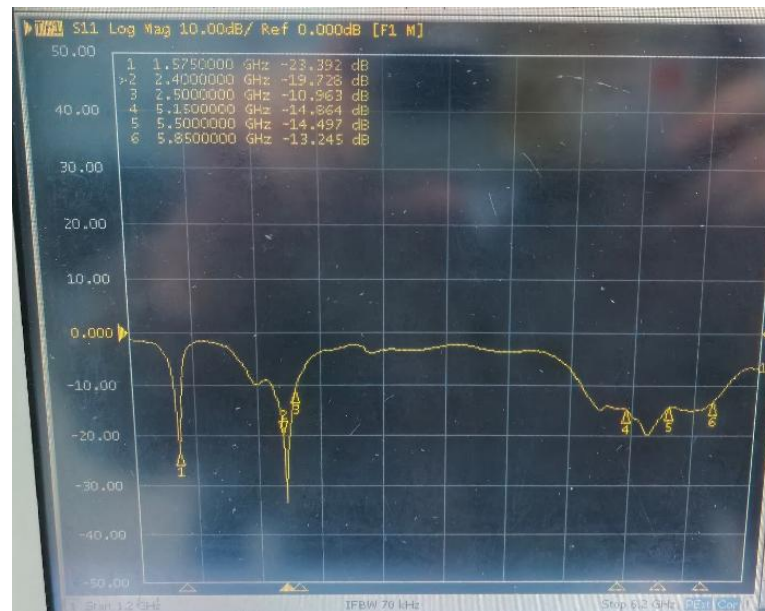
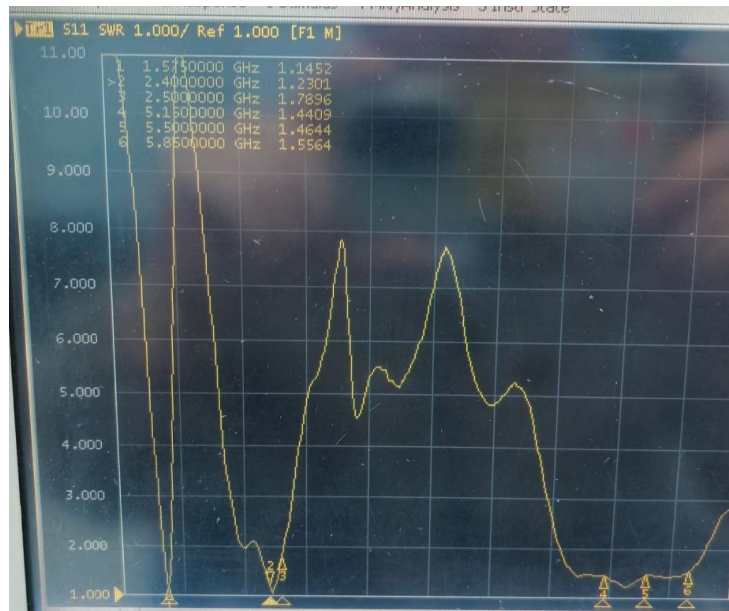




无源测试数据

Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	1575	2400	2500	5150	5500	5850
VSWR	1.14	1.23	1.78	1.44	1.46	1.55
Return Loss (DB)	-23.39	-19.73	-10.96	-14.86	-14.49	-13.24



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Passive test data

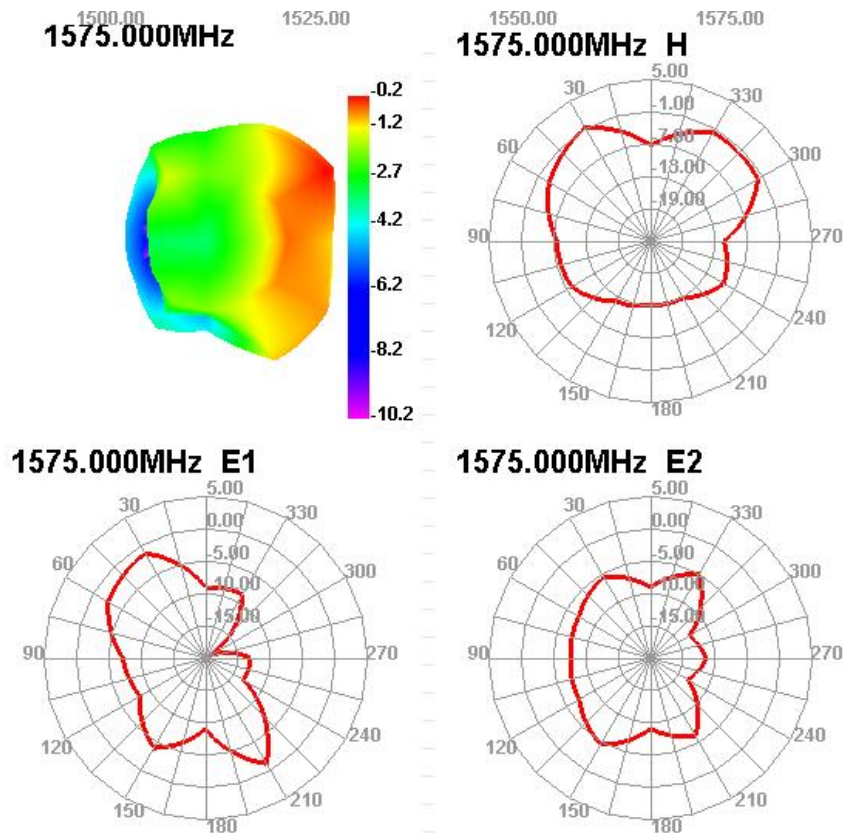
ANT GAIN&Efficiency-GPS

Passive Test For GPS												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
1560	33.44	-4.76	-0.22	-2.37	17.487	15.949	-0.22	-28.49	4.53	0	41.34	40.88
1565	33.62	-4.73	0.01	-2.14	17.632	15.985	0.01	-30.34	4.75	0	41.42	40.95
1570	32.32	-4.91	-0.02	-2.17	16.909	15.41	-0.02	-29.73	4.89	0	41.5	41.03
1575	30.81	-5.11	-0.16	-2.31	16.183	14.625	-0.16	-28.53	4.96	0	41.68	41.23
1580	30.06	-5.22	-0.21	-2.36	15.834	14.226	-0.21	-26.35	5.01	30	41.78	41.35
1585	30.1	-5.21	-0.18	-2.33	15.89	14.208	-0.18	-25.43	5.03	30	41.85	41.4
1590	30.64	-5.14	-0.11	-2.26	16.168	14.472	-0.11	-23.72	5.03	30	41.99	41.53
1595	31.83	-4.97	0	-2.15	16.823	15.011	0	-22.69	4.97	30	42.09	41.67
1600	31.51	-5.02	-0.05	-2.2	16.7	14.813	-0.05	-23.14	4.97	30	42.04	41.62



无源测试数据
Passive test data

ANT Direction of figure(GPS)





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无源测试数据

Passive test data

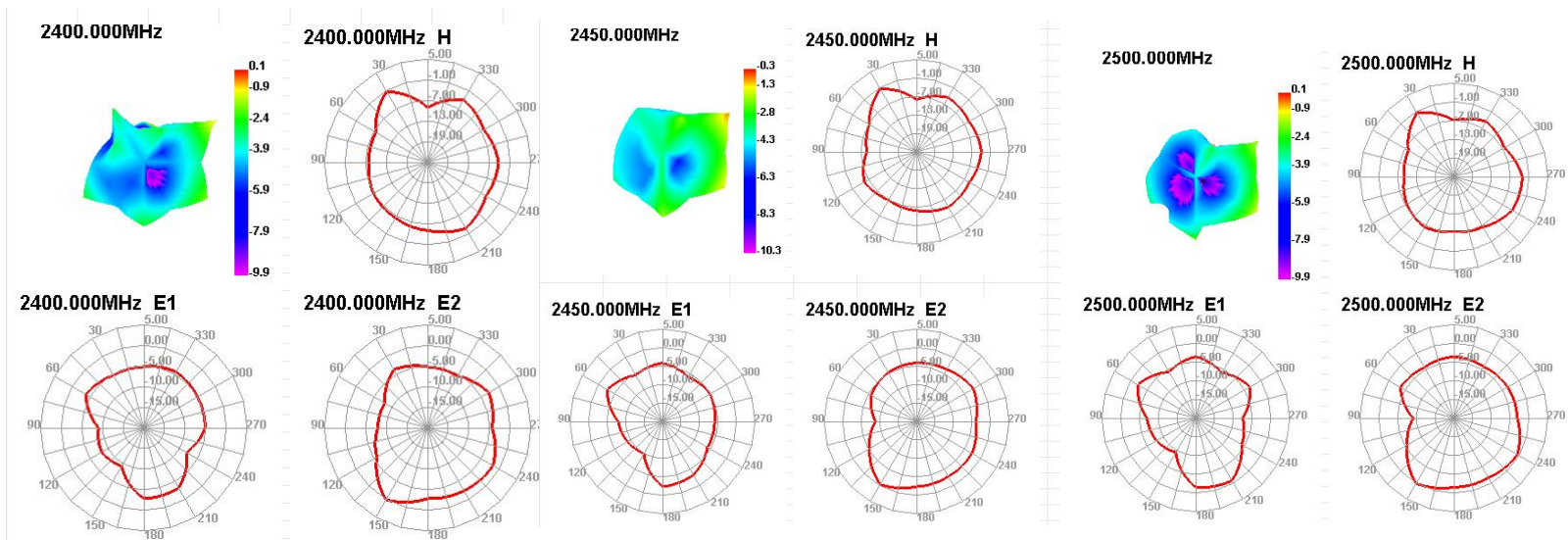
ANT1 GAIN&Efficiency-WIFI2.4&BT

Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	34.63	-4.61	0.13	-2.02	17.139	17.49	0.13	-11.54	4.73	30	45.78	46.01
2410	34.12	-4.67	0.01	-2.14	16.972	17.148	0.01	-12.32	4.68	30	46.01	46.29
2420	34.56	-4.61	-0.07	-2.22	17.436	17.127	-0.07	-12.99	4.55	30	45.73	46
2430	32.2	-4.92	-0.39	-2.54	16.503	15.701	-0.39	-13.46	4.53	30	46.01	46.36
2440	31.67	-4.99	-0.45	-2.6	16.342	15.329	-0.45	-13.29	4.54	30	46.12	46.48
2450	34.1	-4.67	-0.31	-2.46	17.488	16.612	-0.31	-12.53	4.36	30	46.12	46.54
2460	38.04	-4.2	-0.06	-2.21	19.146	18.894	-0.06	-11.45	4.14	30	46.14	46.52
2470	35.29	-4.52	-0.11	-2.26	17.381	17.914	-0.11	-10.81	4.41	30	46.4	46.8
2480	34.63	-4.61	-0.18	-2.33	16.869	17.758	-0.18	-9.86	4.42	30	46.26	46.64
2490	36.21	-4.41	0.06	-2.09	17.41	18.8	0.06	-9.07	4.47	30	46.51	46.91
2500	39.18	-4.07	0.12	-2.03	18.742	20.434	0.12	-9.44	4.19	30	46.47	46.86



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)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	34.82	-4.58	1.03	-1.12	12.273	22.551	1.03	-17.44	5.61	60	49.82	49.4
5170	33.99	-4.69	0.98	-1.17	12.095	21.896	0.98	-17.84	5.66	60	50.13	49.77
5190	38.1	-4.19	1.55	-0.6	14.11	23.994	1.55	-17.52	5.75	60	50.42	49.95
5210	38.51	-4.14	1.76	-0.39	14.753	23.755	1.76	-19.69	5.9	60	50.88	50.49
5230	36.5	-4.38	1.54	-0.61	14.172	22.332	1.54	-21.88	5.91	60	50.42	50.08
5250	44.71	-3.5	2.15	0	17.556	27.151	2.15	-20.81	5.64	60	51.02	50.72
5270	41.49	-3.82	1.82	-0.33	16.652	24.835	1.82	-18.32	5.64	60	50.85	50.6
5290	51.55	-2.88	2.96	0.81	21.028	30.519	2.96	-15.79	5.84	60	51.34	51.12
5310	41.49	-3.82	1.81	-0.34	16.846	24.648	1.81	-15.28	5.63	60	50.44	50.36
5330	41.89	-3.78	1.61	-0.54	16.855	25.033	1.61	-16.38	5.39	60	51.08	51.01
5350	43.38	-3.63	1.97	-0.18	17.672	25.707	1.97	-19.05	5.6	60	51.02	51.01
5370	41.78	-3.79	2.03	-0.12	17.033	24.75	2.03	-16.62	5.82	60	50.91	50.95
5390	39.93	-3.99	1.52	-0.63	15.858	24.073	1.52	-16.04	5.51	60	50.46	50.43
5410	44.24	-3.54	1.94	-0.21	17.172	27.063	1.94	-15.43	5.48	60	51.18	51.09
5430	43.17	-3.65	2.09	-0.06	16.719	26.448	2.09	-17.16	5.74	30	50.69	50.7
5450	45.57	-3.41	2.67	0.52	17.798	27.771	2.67	-16.54	6.09	30	50.71	50.85
5470	44.98	-3.47	2.48	0.33	17.422	27.559	2.48	-16.57	5.95	30	50.93	50.83
5490	43.26	-3.64	2.15	0	16.549	26.714	2.15	-18.6	5.79	30	50.92	50.79
5510	44.27	-3.54	2.63	0.48	17.127	27.143	2.63	-20.78	6.17	30	51.18	51.16
5530	43.08	-3.66	2.72	0.57	16.933	26.142	2.72	-18.53	6.38	30	51.44	51.3
5550	45.53	-3.42	2.82	0.67	18.043	27.485	2.82	-16.77	6.24	60	51.89	51.76
5570	43.29	-3.64	2.25	0.1	17.102	26.187	2.25	-16.75	5.88	90	51.42	51.33
5590	39.63	-4.02	1.78	-0.37	15.762	23.866	1.78	-17.66	5.8	90	51.71	51.76
5610	40.33	-3.94	2.06	-0.09	16.409	23.923	2.06	-17.73	6.01	90	51.17	51.22
5630	34.17	-4.66	1.3	-0.85	14.111	20.063	1.3	-17.36	5.96	90	51.78	51.77
5650	44.35	-3.53	1.98	-0.17	18.176	26.172	1.98	-15.48	5.52	120	51.47	51.55
5670	40.86	-3.89	1.59	-0.56	16.631	24.227	1.59	-15.41	5.48	90	52.12	52.28
5690	45.16	-3.45	2.14	-0.01	18.401	26.759	2.14	-15.1	5.59	90	52.12	52.25
5710	43.79	-3.59	1.89	-0.26	17.823	25.963	1.89	-16.79	5.47	90	51.95	52.05
5730	47.93	-3.19	1.91	-0.24	19.506	28.427	1.91	-15.9	5.1	90	51.59	51.69
5750	41.48	-3.82	1.08	-1.07	16.925	24.557	1.08	-16.75	4.9	90	51.12	51.15
5770	45.52	-3.42	1.96	-0.19	18.548	26.974	1.96	-17.56	5.37	90	51.02	51.06
5790	39.61	-4.02	1.89	-0.26	16.123	23.482	1.89	-16.6	5.92	30	51.08	51.16
5810	42.26	-3.74	2.71	0.56	17.136	25.128	2.71	-16.29	6.45	0	51.36	51.43
5830	39.77	-4	3.09	0.94	16.118	23.65	3.09	-18.67	7.1	0	51.65	51.66
5850	42.5	-3.72	3.64	1.49	17.04	25.459	3.64	-17.92	7.36	30	51.88	52.05



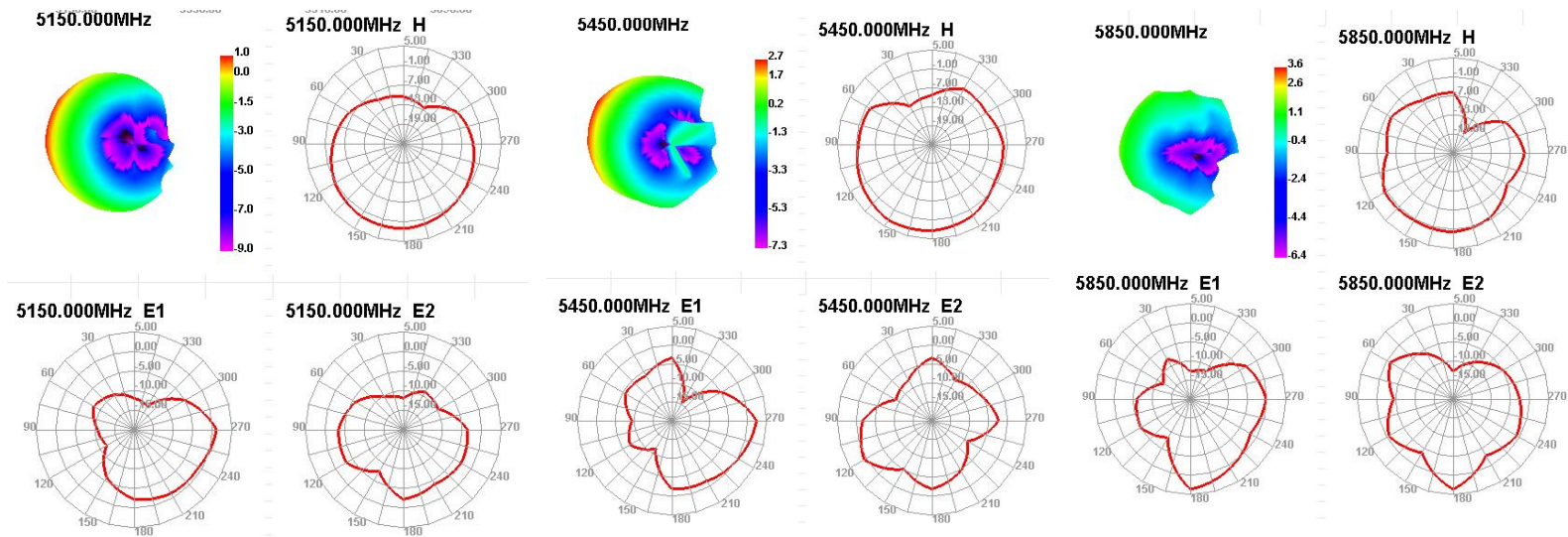
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无源测试数据
Passive test data

ANT1 Direction of figure(5G)



附加说明

Additional instructions



附加说明

Additional instructions



合作共赢

