



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: 攻氦

MN: AB08

RF: 蔡林满

MD: 黄清清

MP: 19918388579

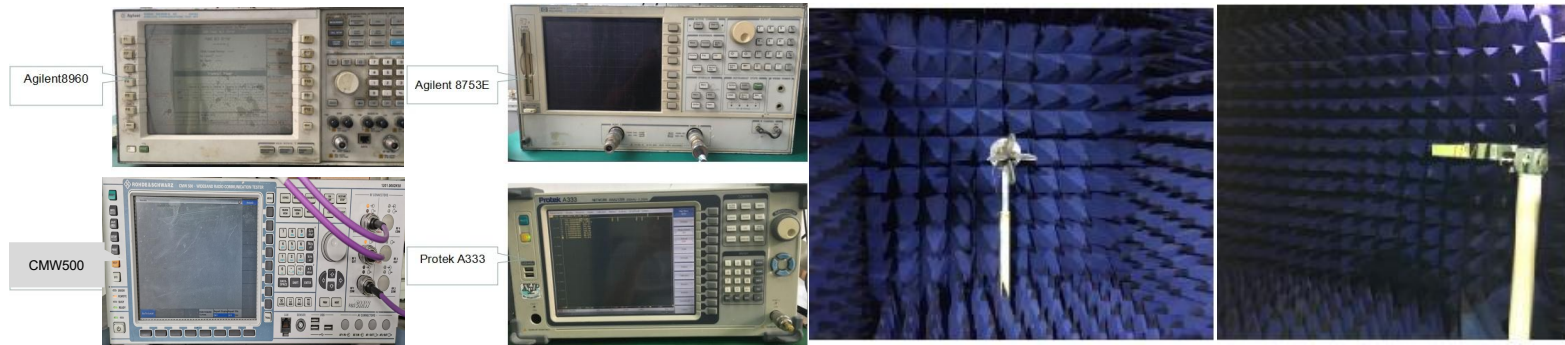
Date: 2023. 8. 11.

REV :V1. 0

测试环境

Test environment

	测试项目	测试设备
S参数 (S-parameter)	1. 电压驻波比 (VSWR) 2. 回波损耗 (Rrtun Loss)	网络分析仪: Agilent8753ES
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 屏灭/屏亮	1. 暗室: 5*3*3m (3D) Chamber 2. 综测仪: Agilent8960 CMW500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 5*3*3m (3D) Chamber 2. 网络分析仪: Agilent 8753ES





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无源测试数据

Passive test data

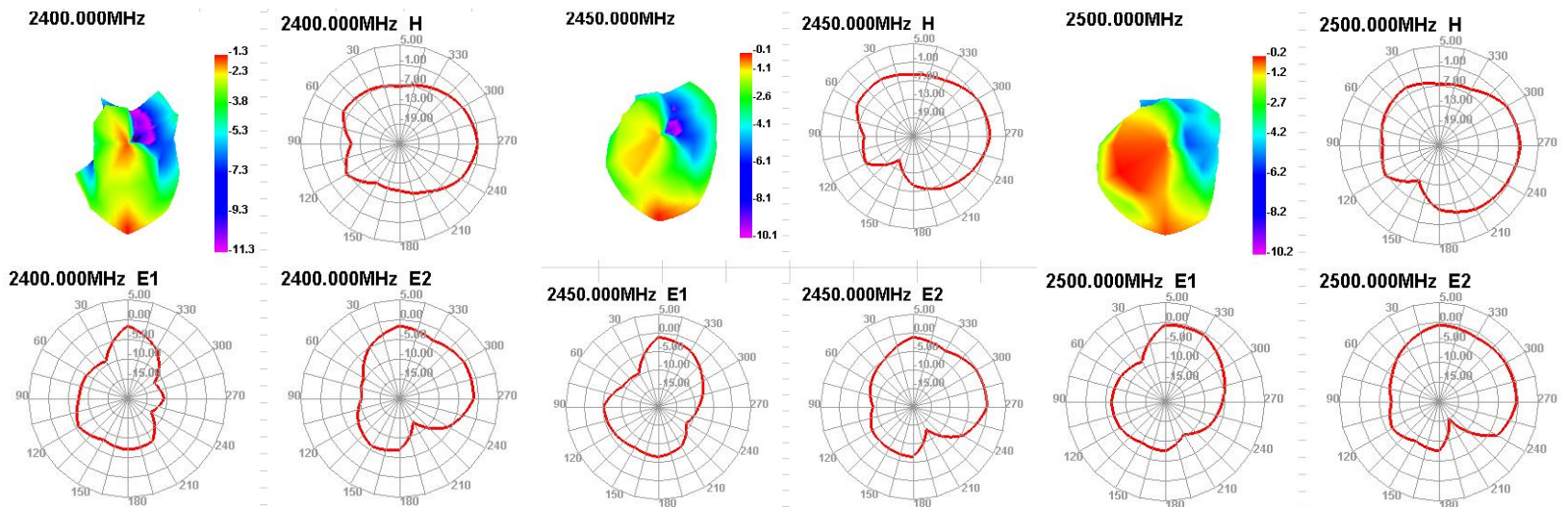
WIFI MAIN ANT GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI MAIN ANT 2.4 (ANT1)								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	23.72	-6.25	-1.25	-3.4	12.843	10.873	-1.25	-14.09
2410	22.61	-6.46	-1.41	-3.56	12.409	10.205	-1.41	-14.73
2420	25.2	-5.99	-0.98	-3.13	13.926	11.277	-0.98	-13.97
2430	27.79	-5.56	-0.6	-2.75	15.541	12.251	-0.6	-14.68
2440	28.72	-5.42	-0.42	-2.57	16.387	12.329	-0.42	-15.73
2450	29.91	-5.24	-0.1	-2.25	17.45	12.463	-0.1	-16.21
2460	33.63	-4.73	0.44	-1.71	19.974	13.656	0.44	-16.25
2470	34.35	-4.64	0.42	-1.73	20.586	13.767	0.42	-15.75
2480	35.19	-4.54	0.36	-1.79	21.359	13.835	0.36	-14.77
2490	36.71	-4.35	0.25	-1.9	22.377	14.331	0.25	-14.52
2500	33.29	-4.78	-0.24	-2.39	20.455	12.833	-0.24	-15.18



无源测试数据 Passive test data

WIFI MAIN ANT Direction of figure(2.4/BT)





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无源测试数据
Passive test data

WIFI MAIN ANT GAIN&Efficiency-WIFI 5G

Passive Test For WIFI MAIN ANT 5G (ANTI)								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	39.25	-4.06	0.82	-1.33	18.157	21.091	0.82	-23.11
5170	39.81	-4	1.02	-1.13	18.641	21.165	1.02	-20.27
5190	40.22	-3.96	1.01	-1.14	19.281	20.937	1.01	-16.77
5210	44.78	-3.49	1.37	-0.78	21.584	23.195	1.37	-14.38
5230	41.98	-3.77	1.31	-0.84	20.409	21.567	1.31	-15.88
5250	46.57	-3.32	2.02	-0.13	22.8	23.767	2.02	-15.5
5270	44.14	-3.55	1.85	-0.3	21.977	22.164	1.85	-14.38
5290	48.1	-3.18	2.23	0.08	24.461	23.634	2.23	-13.77
5310	43.49	-3.62	1.6	-0.55	22.063	21.423	1.6	-14.43
5330	45.25	-3.44	2.03	-0.12	22.894	22.354	2.03	-14.31
5350	44.22	-3.54	2.35	0.2	22.51	21.715	2.35	-14.56
5370	43.18	-3.65	2.6	0.45	22.238	20.938	2.6	-14.56
5390	37.7	-4.24	2.37	0.22	19.136	18.561	2.37	-15.18
5410	46.27	-3.35	3.46	1.31	23.106	23.159	3.46	-13.96
5430	38.4	-4.16	2.92	0.77	18.855	19.547	2.92	-15.54
5450	42.39	-3.73	3.65	1.5	20.754	21.635	3.65	-17.29
5470	38.86	-4.11	3.54	1.39	18.864	19.994	3.54	-18.99
5490	42.27	-3.74	4.09	1.94	20.311	21.959	4.09	-20.23
5510	43.54	-3.61	4.16	2.01	20.903	22.634	4.16	-22.46
5530	45.12	-3.46	4.3	2.15	21.824	23.299	4.3	-20.91
5550	47.86	-3.2	4.6	2.45	23.459	24.399	4.6	-18.69
5570	45.86	-3.39	4.33	2.18	22.404	23.451	4.33	-16.85
5590	50.52	-2.97	4.55	2.4	24.579	25.938	4.55	-15.89
5610	46.93	-3.29	3.98	1.83	22.939	23.987	3.98	-15.39
5630	50.58	-2.96	4.3	2.15	24.76	25.816	4.3	-14.34
5650	46.95	-3.28	3.97	1.82	22.915	24.032	3.97	-15.21
5670	49.61	-3.04	3.96	1.81	23.498	26.113	3.96	-15.92
5690	46.79	-3.3	3.6	1.45	21.8	24.994	3.6	-16.95
5710	45.38	-3.43	3.5	1.35	20.899	24.481	3.5	-17.59
5730	48.85	-3.11	3.77	1.62	22.195	26.651	3.77	-15.62
5750	44.42	-3.52	3.16	1.01	19.569	24.853	3.16	-15.02
5770	46.82	-3.3	3.02	0.87	20.142	26.681	3.02	-14.36
5790	42.97	-3.67	2.58	0.43	18.383	24.592	2.58	-15.29
5810	45.64	-3.41	2.83	0.68	19.631	26.012	2.83	-17.2
5830	45.84	-3.39	2.83	0.68	19.632	26.209	2.83	-16.46
5850	48.45	-3.15	3.19	1.04	20.729	27.717	3.19	-16.76



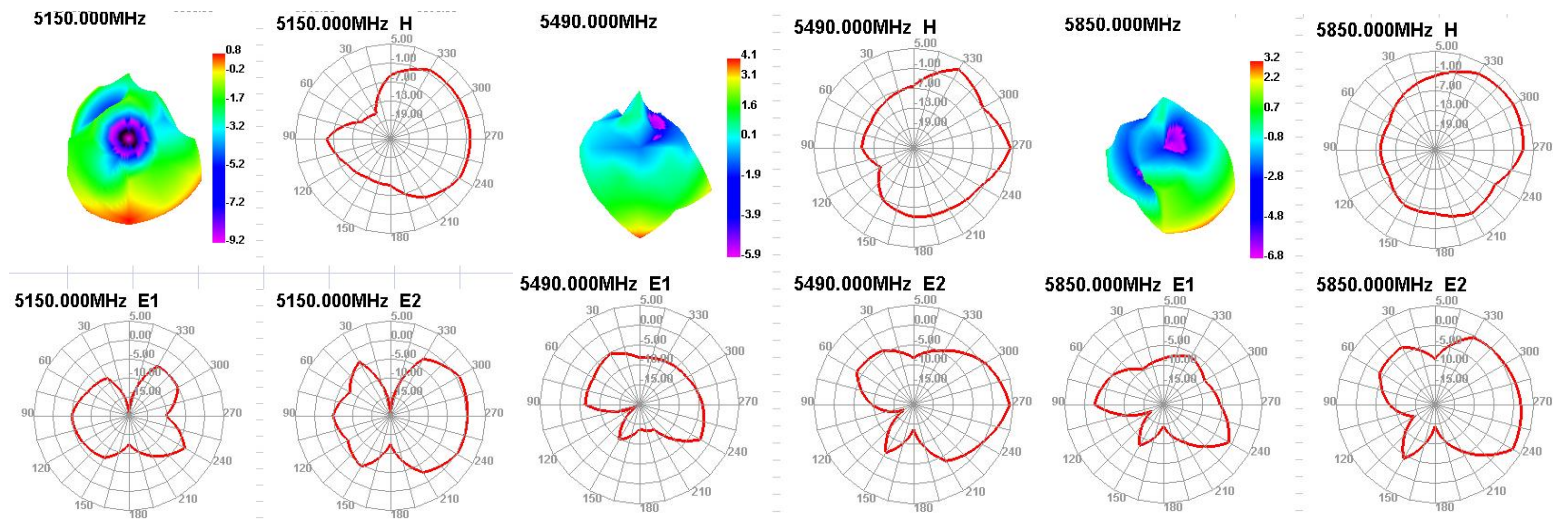
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无源测试数据
Passive test data

WIFI MAIN ANT Direction of figure(5G)





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Passive test data

WIFI AUX ANT GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI AUX ANT 2.4 (ANT2)								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	22.12	-6.55	-0.5	-2.65	9.178	12.94	-0.5	-17.41
2410	21.93	-6.59	-0.49	-2.64	9.309	12.621	-0.49	-17.11
2420	26.37	-5.79	0.41	-1.74	11.367	15.006	0.41	-15.85
2430	28.66	-5.43	0.99	-1.16	12.647	16.012	0.99	-16.25
2440	28.73	-5.42	1.23	-0.92	12.9	15.829	1.23	-18.02
2450	30.92	-5.1	1.68	-0.47	14.073	16.848	1.68	-21.35
2460	33.21	-4.79	2.08	-0.07	15.317	17.889	2.08	-23.57
2470	32.87	-4.83	2.09	-0.06	15.376	17.493	2.09	-20.01
2480	32.99	-4.82	2.09	-0.06	15.674	17.318	2.09	-16.63
2490	31.57	-5.01	1.81	-0.34	15.317	16.258	1.81	-14.58
2500	26.14	-5.83	0.98	-1.17	13.011	13.129	0.98	-13.92



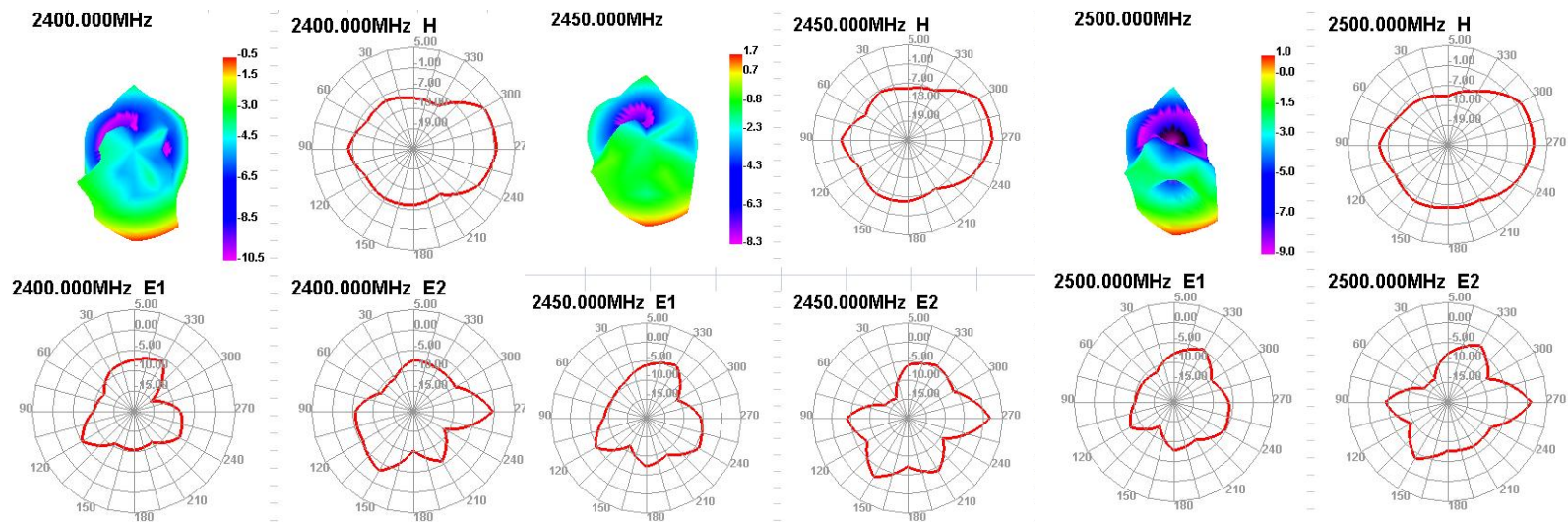
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无源测试数据
Passive test data

WIFI AUX ANT Direction of figure (2.4/BT)





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无源测试数据
Passive test data

WIFI AUX ANT GAIN&Efficiency-WIFI 5G

Passive Test For WIFI AUX ANT 5G (ANT2)								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	41.5	-3.82	2.14	-0.01	20.1	21.403	2.14	-19.81
5170	41.9	-3.78	2.5	0.35	20.107	21.794	2.5	-21.17
5190	43.58	-3.61	2.88	0.73	21.063	22.515	2.88	-18.83
5210	46.76	-3.3	3.32	1.17	22.462	24.301	3.32	-16.24
5230	45.93	-3.38	3.38	1.23	21.76	24.17	3.38	-17.58
5250	48.77	-3.12	3.82	1.67	22.614	26.155	3.82	-19.14
5270	51.03	-2.92	4.16	2.01	23.527	27.506	4.16	-16.1
5290	51.23	-2.9	3.99	1.84	23.77	27.459	3.99	-15.74
5310	48.53	-3.14	3.42	1.27	22.482	26.048	3.42	-16.94
5330	49.68	-3.04	3.53	1.38	22.841	26.844	3.53	-15.21
5350	52.39	-2.81	3.89	1.74	24.112	28.278	3.89	-14.87
5370	50.54	-2.96	3.58	1.43	23.589	26.951	3.58	-14.62
5390	45.31	-3.44	3.17	1.02	21.3	24.011	3.17	-17.27
5410	52.9	-2.77	3.92	1.77	24.697	28.203	3.92	-16.27
5430	47.5	-3.23	3.69	1.54	22.014	25.491	3.69	-19.5
5450	51.04	-2.92	3.93	1.78	23.729	27.307	3.93	-15.83
5470	47.4	-3.24	3.43	1.28	22.256	25.141	3.43	-14.9
5490	46.94	-3.28	3.63	1.48	21.909	25.028	3.63	-14.48
5510	47.32	-3.25	3.84	1.69	21.96	25.359	3.84	-14.88
5530	48.11	-3.18	3.94	1.79	22.46	25.648	3.94	-16.15
5550	50.62	-2.96	4.36	2.21	24.183	26.438	4.36	-17.06
5570	46.44	-3.33	4.13	1.98	22.434	24.004	4.13	-19.49
5590	50.55	-2.96	4.77	2.62	24.364	26.187	4.77	-17.43
5610	46.91	-3.29	4.52	2.37	22.795	24.112	4.52	-23.59
5630	54.08	-2.67	5.03	2.88	26.54	27.541	5.03	-21.74
5650	45.09	-3.46	4.24	2.09	22.307	22.787	4.24	-17.29
5670	53.55	-2.71	4.97	2.82	26.53	27.019	4.97	-16.13
5690	45.45	-3.42	4.28	2.13	22.518	22.936	4.28	-22.06
5710	53.65	-2.7	4.88	2.73	26.681	26.969	4.88	-16.71
5730	50.89	-2.93	4.47	2.32	25.441	25.452	4.47	-15.15
5750	49.31	-3.07	4.19	2.04	24.527	24.787	4.19	-16.21
5770	49.06	-3.09	4.14	1.99	24.304	24.758	4.14	-16.28
5790	47.42	-3.24	4.02	1.87	23.619	23.801	4.02	-14.97
5810	47.33	-3.25	4.22	2.07	23.684	23.643	4.22	-15.6
5830	47.46	-3.24	4.46	2.31	23.631	23.825	4.46	-16.01
5850	46.88	-3.29	4.5	2.35	23.065	23.812	4.5	-15.83



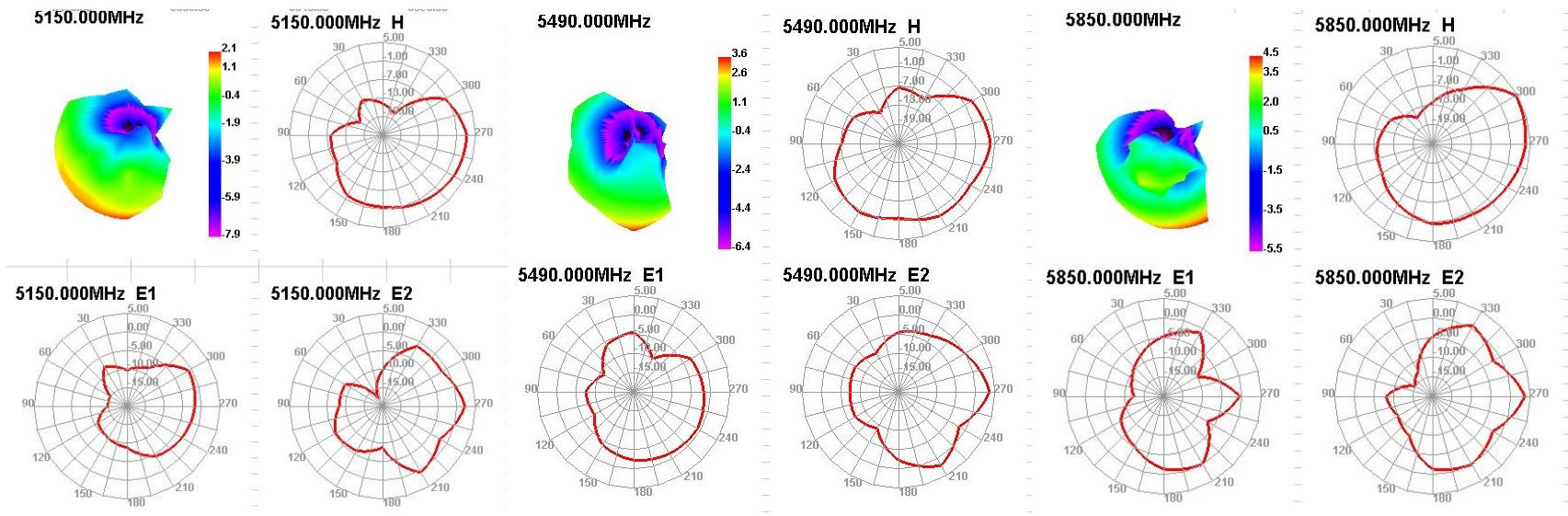
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无源测试数据
Passive test data

WIFI AUX ANT Direction of figure(5G)



合作共赢

