



深圳市星源创科技有限公司
SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线测试报告

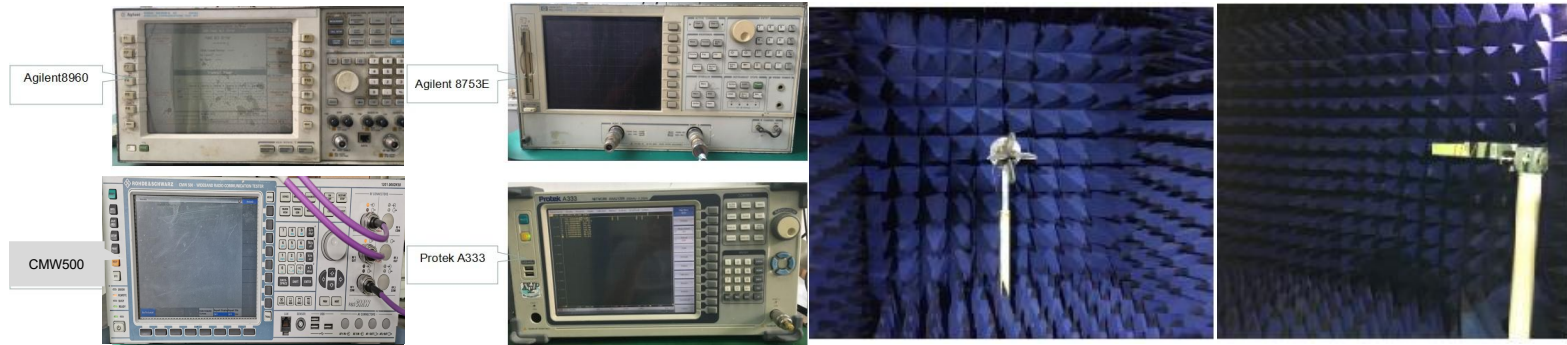
Antenna Test Report

Date: 2023. 08. 17
REV :V1. 0

测试环境

Test environment

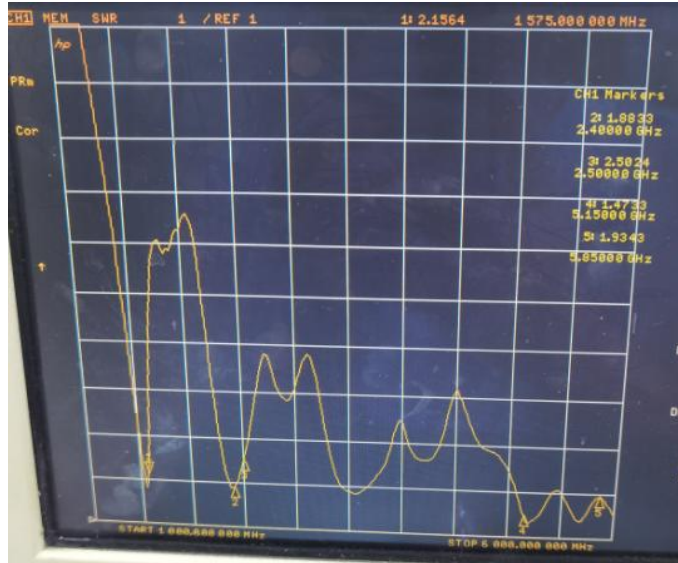
	测试项目	测试设备
S参数 (S-parameter)	1. 电压驻波比 (VSWR) 2. 回波损耗 (Rrtun Loss)	网络分析仪: Agilent8753ES
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 屏灭/屏亮	1. 暗室: 5*3*3m (3D) Chamber 2. 综测仪: Agilent8960 CMW500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 5*3*3m (3D) Chamber 2. 网络分析仪: Agilent 8753ES





无源测试数据 Passive test data

ANT S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.88	2.50	1.47	1.93
Return Loss (DB)	-10.27	-7.35	-14.36	-9.94



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Passive test data

ANT 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)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	25.25	-5.98	-0.69	-2.84	8.093	17.16	-0.69	-17.1	5.29	0	45.79	46.02
2410	25.23	-5.98	-0.53	-2.68	8.068	17.16	-0.53	-16.74	5.45	0	46	46.28
2420	24.39	-6.13	-0.49	-2.64	7.743	16.648	-0.49	-17.71	5.64	0	45.66	45.93
2430	24.12	-6.18	-0.42	-2.57	7.633	16.487	-0.42	-18.29	5.76	0	45.82	46.17
2440	24.72	-6.07	-0.19	-2.34	7.84	16.876	-0.19	-17.23	5.88	0	45.92	46.28
2450	25.46	-5.94	-0.04	-2.19	8.136	17.328	-0.04	-15.99	5.9	0	45.95	46.38
2460	25.83	-5.88	0.03	-2.12	8.335	17.49	0.03	-15.44	5.91	0	45.93	46.31
2470	25.6	-5.92	-0.01	-2.16	8.347	17.257	-0.01	-15	5.91	0	46.24	46.64
2480	25.78	-5.89	0.07	-2.08	8.469	17.309	0.07	-14.76	5.96	0	46.17	46.56
2490	26.3	-5.8	0.23	-1.92	8.726	17.573	0.23	-15.17	6.04	0	46.38	46.78
2500	24.91	-6.04	0.12	-2.03	8.32	16.591	0.12	-15.36	6.15	0	46.26	46.65



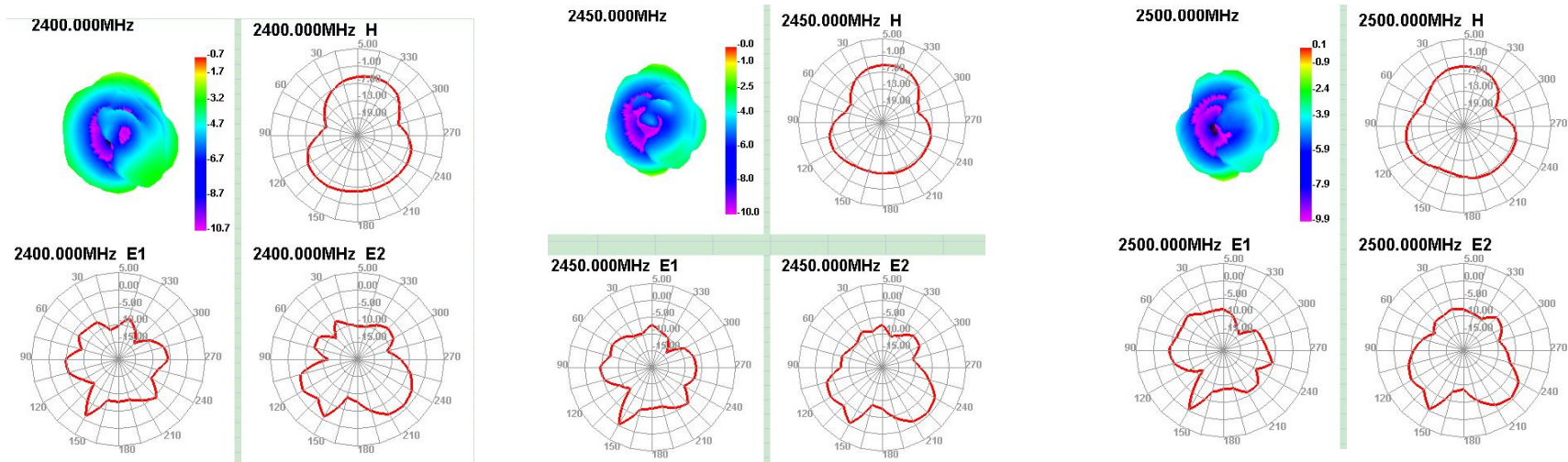
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Passive test data

ANT Direction of figure(2.4/BT)





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无源测试数据

Passive test data

ANT GAIN&Efficiency-WIFI 5G

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
5150	14.21	-8.48	-2.92	-5.07	7.417	6.788	-2.92	-21.94
5170	14.03	-8.53	-2.45	-4.6	7.51	6.521	-2.45	-20.13
5190	17.7	-7.52	-1.44	-3.59	9.259	8.441	-1.44	-19.27
5210	16.77	-7.76	-1.99	-4.14	8.492	8.275	-1.99	-21.42
5230	18.97	-7.22	-1.84	-3.99	9.681	9.292	-1.84	-23.64
5250	17.31	-7.62	-2.99	-5.14	9.189	8.118	-2.99	-23.39
5270	21.19	-6.74	-2.27	-4.42	11.595	9.599	-2.27	-20.68
5290	18.76	-7.27	-2.53	-4.68	10.506	8.259	-2.53	-18.4
5310	19.57	-7.08	-2.32	-4.47	11.219	8.353	-2.32	-18.86
5330	20.35	-6.91	-2.38	-4.53	11.96	8.387	-2.38	-19.52
5350	23.62	-6.27	-1.83	-3.98	13.93	9.687	-1.83	-18.58
5370	23.87	-6.22	-1.57	-3.72	14.02	9.848	-1.57	-19.55
5390	22.86	-6.41	-1.62	-3.77	13.443	9.413	-1.62	-19.09
5410	29.22	-5.34	-0.01	-2.16	16.9	12.32	-0.01	-16.25
5430	27.03	-5.68	0.46	-1.69	15.208	11.82	0.46	-19.37
5450	29.96	-5.23	1.3	-0.85	16.709	13.255	1.3	-20.7
5470	27.01	-5.68	0.57	-1.58	14.866	12.145	0.57	-21.45
5490	27.76	-5.57	0.07	-2.08	14.668	13.087	0.07	-19.69
5510	27.41	-5.62	-0.34	-2.49	13.684	13.726	-0.34	-17.92
5530	26.82	-5.72	-0.28	-2.43	12.916	13.9	-0.28	-18.17
5550	25.89	-5.87	-0.65	-2.8	12.421	13.467	-0.65	-17.89
5570	22.83	-6.41	-1.78	-3.93	10.777	12.055	-1.78	-17.84
5590	20.29	-6.93	-2.72	-4.87	9.198	11.091	-2.72	-19
5610	18.7	-7.28	-2.41	-4.56	8.366	10.336	-2.41	-22.37
5630	17.34	-7.61	-2.39	-4.54	8.002	9.341	-2.39	-29.38
5650	18.55	-7.32	-1.97	-4.12	8.787	9.764	-1.97	-24.36
5670	15.58	-8.07	-2.71	-4.86	7.387	8.192	-2.71	-19.01
5690	16.93	-7.71	-1.89	-4.04	8.228	8.706	-1.89	-17.98
5710	11.37	-9.44	-3.43	-5.58	5.699	5.674	-3.43	-21.8
5730	13.49	-8.7	-2.45	-4.6	6.746	6.742	-2.45	-23.05
5750	11.07	-9.56	-3.44	-5.59	5.442	5.625	-3.44	-24.25
5770	15.63	-8.06	-2.15	-4.3	7.542	8.086	-2.15	-19.98
5790	16.06	-7.94	-2.18	-4.33	7.737	8.324	-2.18	-17.1
5810	20.28	-6.93	-1.37	-3.52	9.937	10.341	-1.37	-16.19
5830	20.53	-6.88	-1.32	-3.47	10.299	10.226	-1.32	-14.63
5850	23.63	-6.27	-0.43	-2.58	12.298	11.328	-0.43	-14.48



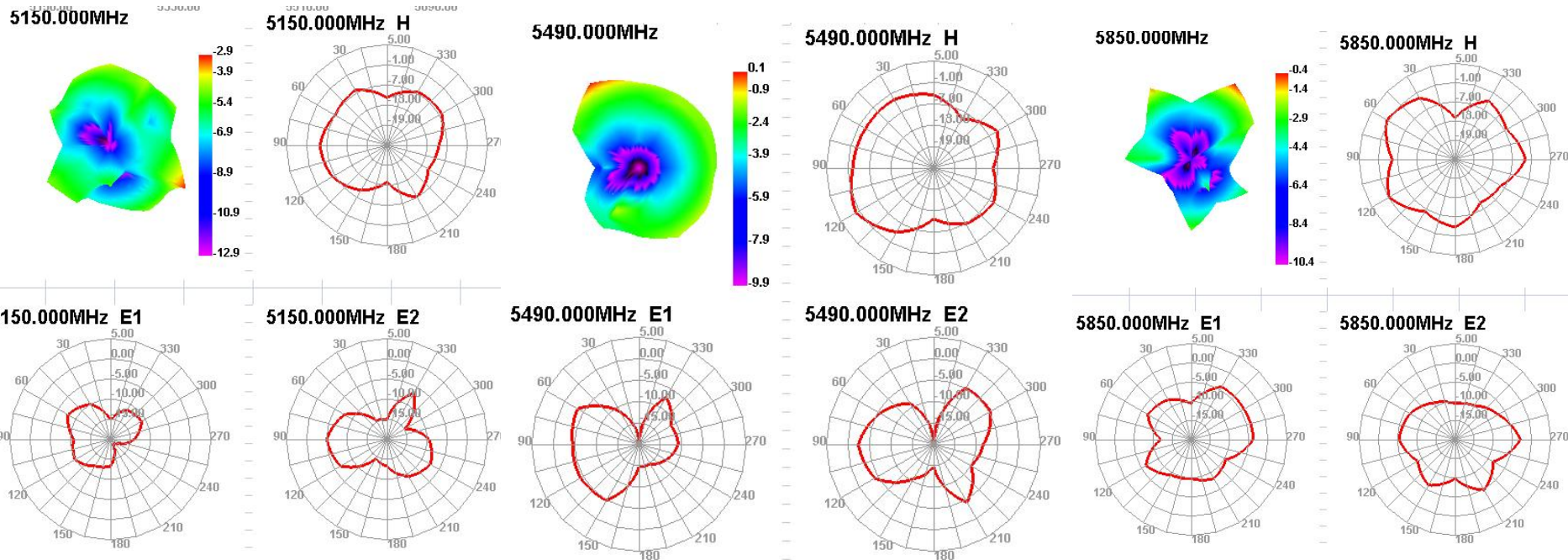
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ANT Direction of figure(5G)



Mechanical Specification:

