



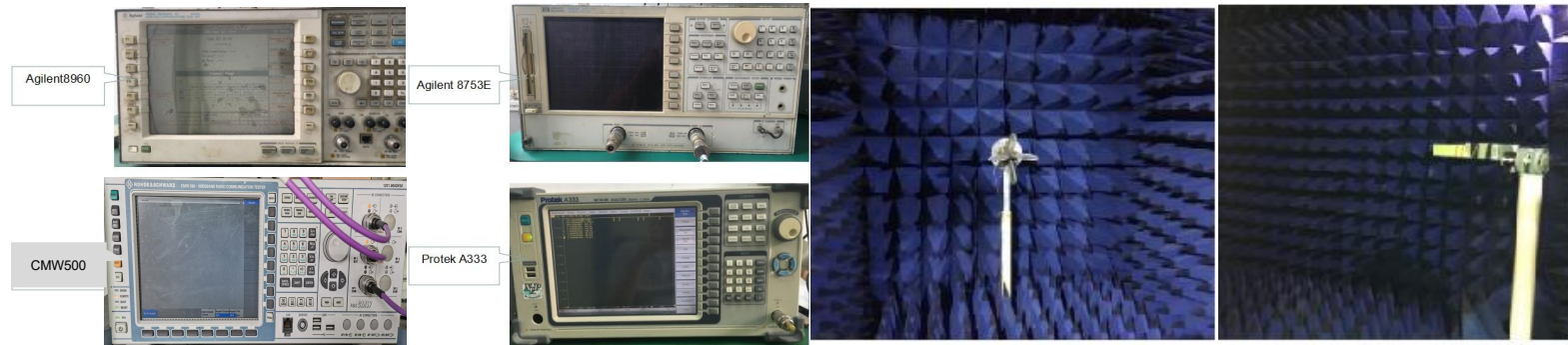
SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

Antenna Test Report

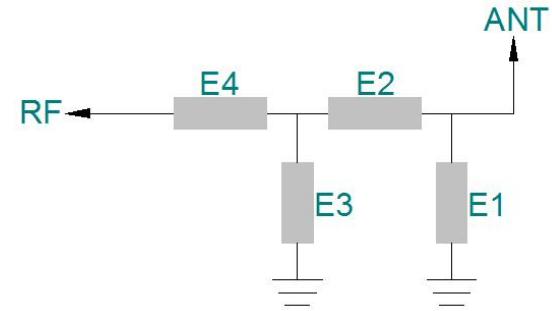
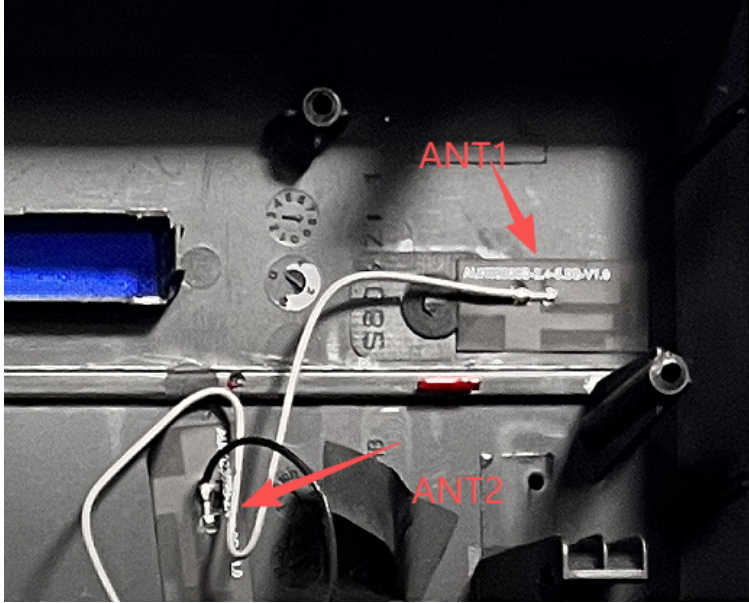
Date: 2023. 5. 19.
REV :V1. 0

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



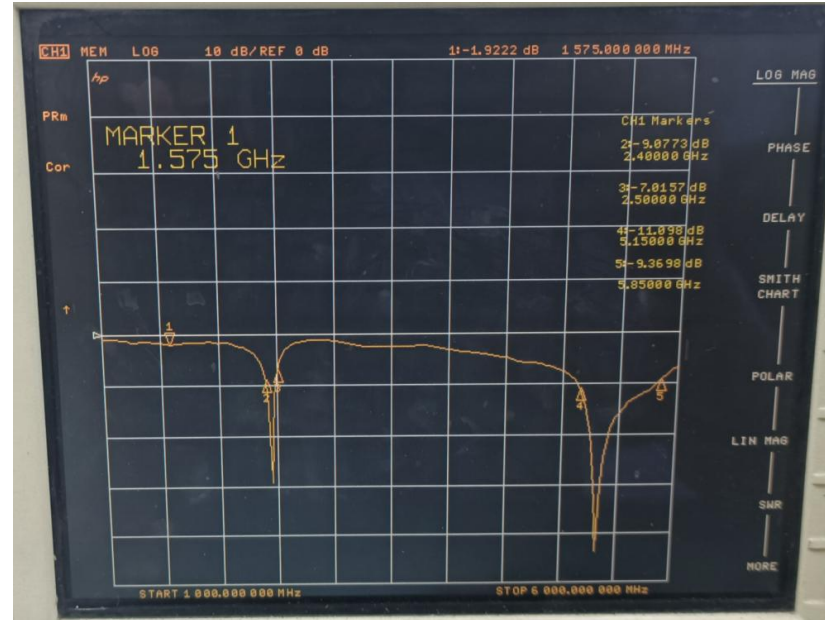
Matching circuit



	电容 (PF)	电感 (NH)
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

ANT1 S11-VSWR&Return Loss

Passive test data



Frequency (MHZ)	2400	2500	5150	5850
Return Loss (DB)	-9.07	-7.01	-11.09	-9.36

Passive test data

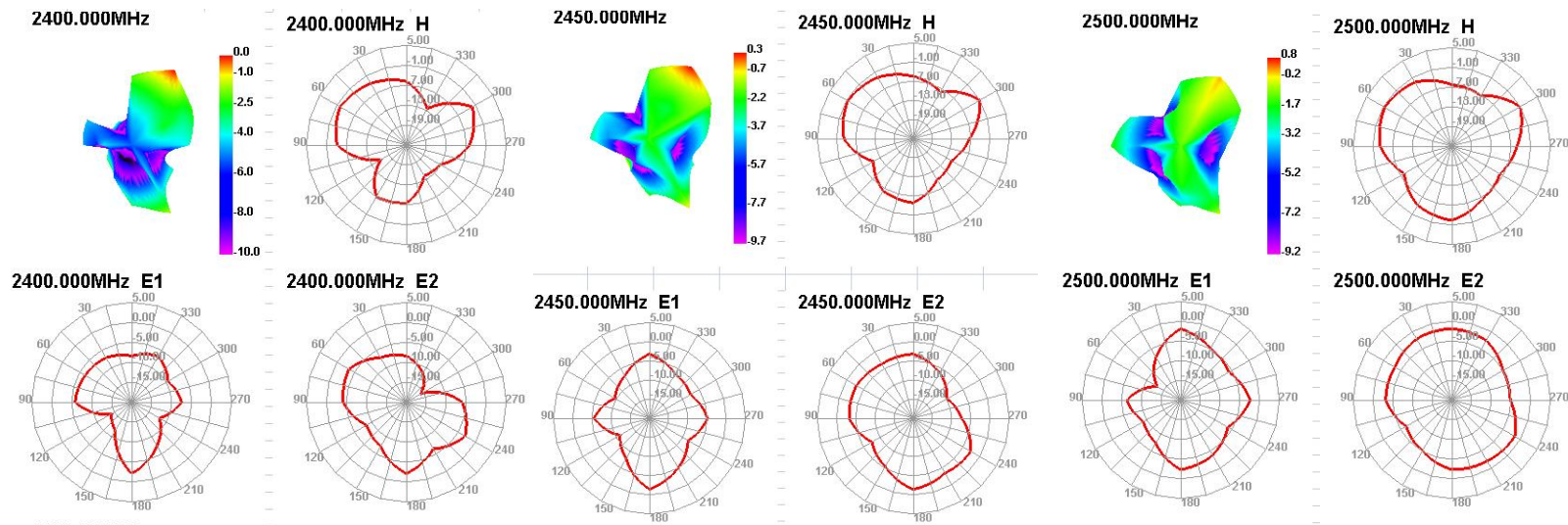
Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	21.29	-6.72	0.04	-2.11	10.664	10.629	0.04	-16.25
2410	19.85	-7.02	-0.41	-2.56	9.862	9.989	-0.41	-17.19
2420	24.12	-6.18	0.2	-1.95	11.937	12.181	0.2	-21.35
2430	26.6	-5.75	0.39	-1.76	13.355	13.247	0.39	-23.65
2440	25.9	-5.87	0.1	-2.05	13.094	12.802	0.1	-19.38
2450	28.19	-5.5	0.31	-1.84	14.176	14.016	0.31	-16.07
2460	33.69	-4.72	1.03	-1.12	16.897	16.795	1.03	-13.83
2470	34.57	-4.61	1.07	-1.08	17.462	17.112	1.07	-13.66
2480	36.7	-4.35	1.14	-1.01	18.565	18.131	1.14	-12.78
2490	38.91	-4.1	1.38	-0.77	19.479	19.43	1.38	-12.57
2500	34.54	-4.62	0.77	-1.38	17.268	17.273	0.77	-13.58



ANTENNA

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Passive test data





Passive test data

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
5150	34.25	-4.65	1.15	-1	16.321	17.928	1.15	-16.51
5170	37.01	-4.32	1.36	-0.79	17.892	19.12	1.36	-16.01
5190	37.21	-4.29	1.29	-0.86	18.301	18.913	1.29	-15.1
5210	41.88	-3.78	1.35	-0.8	20.889	20.995	1.35	-14.39
5230	39.1	-4.08	0.75	-1.4	19.599	19.506	0.75	-16.85
5250	43.99	-3.57	1.49	-0.66	22.387	21.599	1.49	-19.12
5270	44.6	-3.51	1.83	-0.32	22.847	21.752	1.83	-21.91
5290	46.85	-3.29	1.57	-0.58	24.26	22.588	1.57	-25.24
5310	43.44	-3.62	0.64	-1.51	22.747	20.696	0.64	-22.06
5330	45.14	-3.45	0.99	-1.16	24.078	21.067	0.99	-16.93
5350	47.69	-3.22	1.58	-0.57	25.541	22.147	1.58	-14.52
5370	47.27	-3.25	1.43	-0.72	25.336	21.932	1.43	-13.52
5390	41.91	-3.78	1.05	-1.1	22.679	19.231	1.05	-14.77
5410	50.29	-2.98	1.73	-0.42	27.545	22.748	1.73	-15.82
5430	45.51	-3.42	1.57	-0.58	24.917	20.591	1.57	-18.68
5450	51.76	-2.86	2.23	0.08	28.094	23.667	2.23	-19.84
5470	47.73	-3.21	1.67	-0.48	26.071	21.662	1.67	-18.4
5490	49.91	-3.02	1.79	-0.36	27.493	22.421	1.79	-16.56
5510	51.82	-2.85	2.3	0.15	28.443	23.379	2.3	-15.74
5530	54.03	-2.67	2.65	0.5	29.688	24.346	2.65	-14.15
5550	54.67	-2.62	2.56	0.41	30.094	24.579	2.56	-13.24
5570	49.44	-3.06	2.06	-0.09	27.497	21.939	2.06	-13.64
5590	54.34	-2.65	2.89	0.74	30.204	24.134	2.89	-13
5610	49.55	-3.05	2.76	0.61	27.508	22.045	2.76	-13.29
5630	53.19	-2.74	2.86	0.71	29.758	23.427	2.86	-14
5650	43.08	-3.66	1.95	-0.2	24.296	18.781	1.95	-15.57
5670	48.16	-3.17	2.55	0.4	27.266	20.899	2.55	-14.87
5690	41.66	-3.8	2.06	-0.09	23.224	18.431	2.06	-15.22
5710	43.92	-3.57	2.26	0.11	24.721	19.201	2.26	-14.29
5730	41.62	-3.81	1.91	-0.24	23.692	17.927	1.91	-14.22
5750	38.36	-4.16	1.21	-0.94	22.11	16.247	1.21	-14.25
5770	38.07	-4.19	1.13	-1.02	21.861	16.213	1.13	-13.91
5790	35.55	-4.49	0.74	-1.41	20.663	14.882	0.74	-14.7
5810	34.88	-4.57	0.28	-1.87	20.444	14.439	0.28	-15.13
5830	33.26	-4.78	-0.03	-2.18	19.54	13.715	-0.03	-13.49
5850	32.97	-4.82	-0.03	-2.18	19.167	13.801	-0.03	-13.52



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Passive test data

