

样品承认书

SPECIFICATION FOR APPROVAL

客户名称: 诺达方舟

CUSTOMER NAME Nuoda Ark

产品名称: BT&2.4/5.8G WIFI 天线

PAPT NAME BT&2.4/5.8G WIFI Antenna

产品型号: SPH2.0-10PIN

PAPT MODEL

承认栏

Acknowledgment Section

拟定 Drafting	审核 Review	客户确认 Confirm
陈放	王占峰	许国豪

厂址: 深圳市宝安区松岗芙蓉路8号鑫伟润高新科技园A栋二楼

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E-mail: qin.fang@emwchina.cn

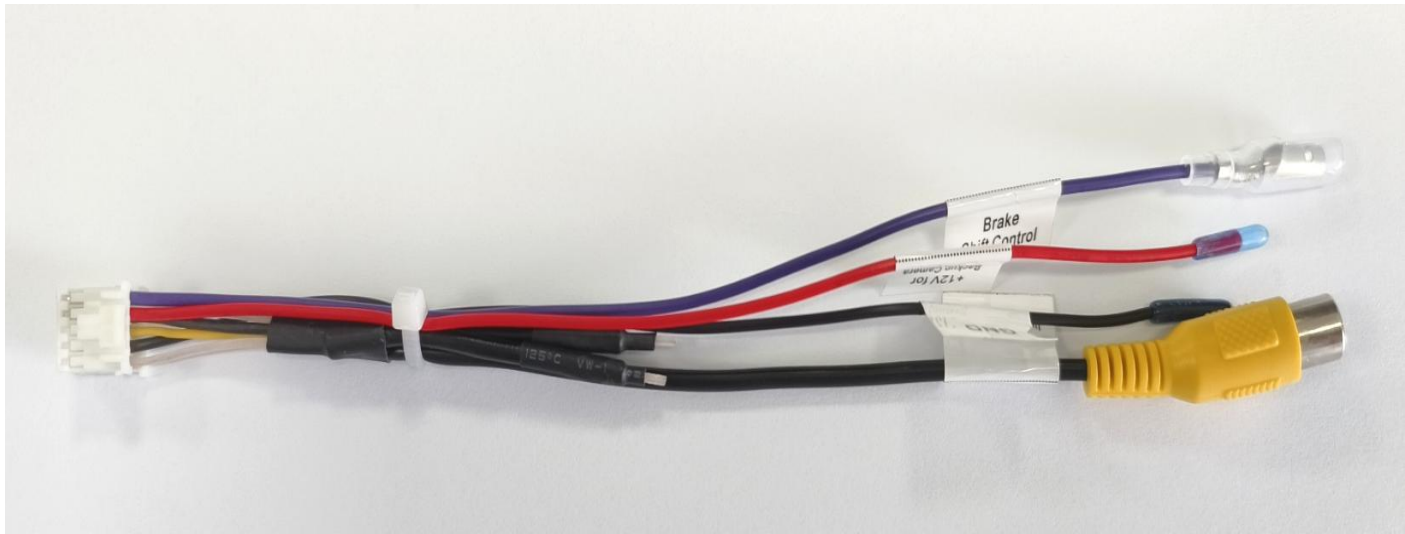
一、 电气性能 Electrical factor

1. 频率范围 Frenquency range	2400~ 2500 MHz/5150~5800 MHZ
2. 输入阻抗 Impedance	50 Ω
3. 驻波比 VSWR	≧ 1.5
4. 增益 Gain	<3.74dBi
5. 极化方式 Polarization	水平极化
6. 辐射方向 Radiation	全向
7. 功率容量 Maximun power Input-watts	50W

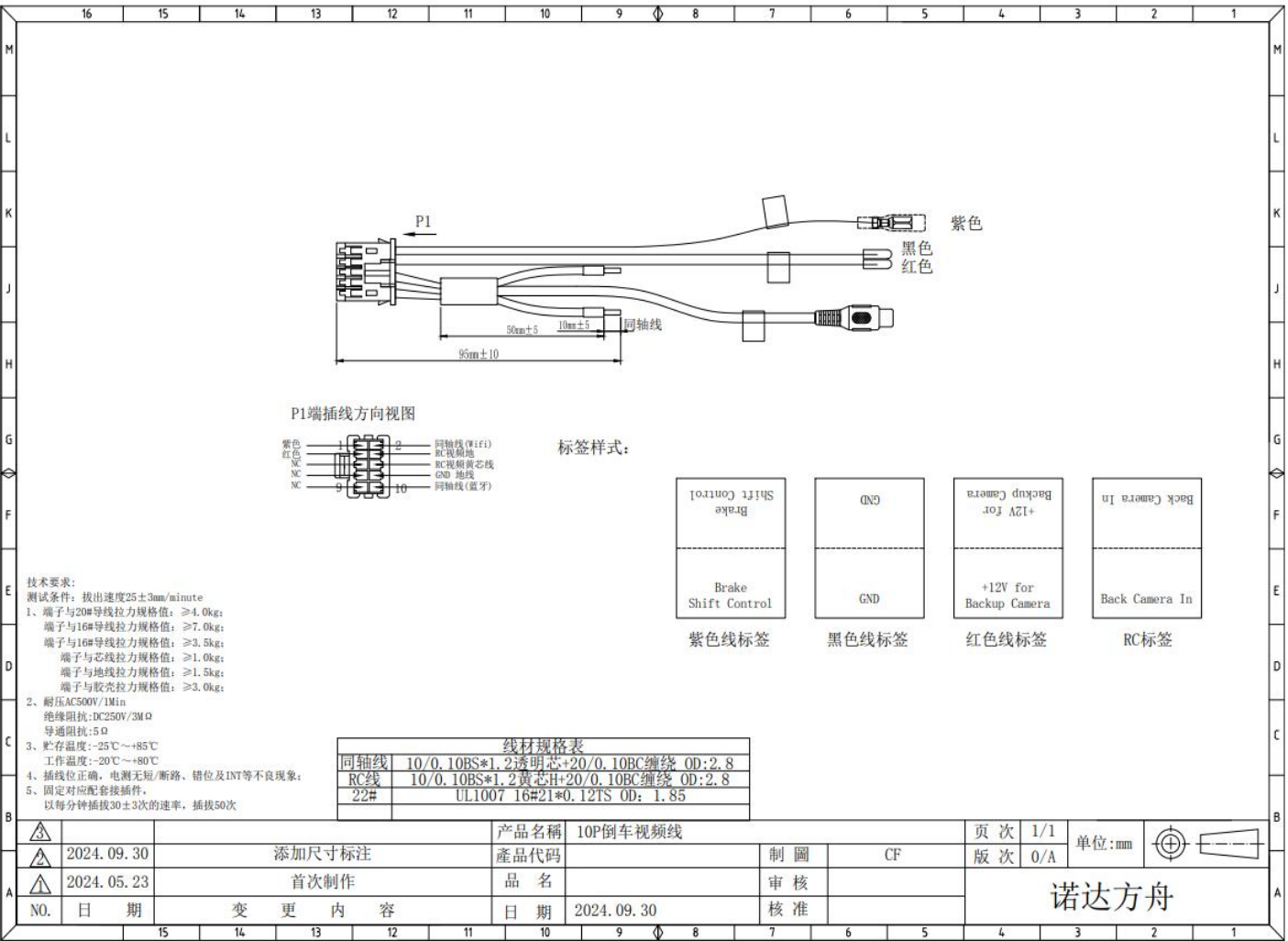
二、 机械特性 Mechanical performance

1. 线长 Dimension	95±10mm
2. 接头 Connector	SPH2.0-10PIN
3. 材料 Radome material	同轴线
4. 外观颜色 Radome color	黑色+白色芯
5. 工作温度 Working temperature	-20~75度
6. 存放温度 Storage temperature	-40~85度

三、实物样品 Sample



四、图纸 Drawings



五、性能测试 Performance test

1.1: 2.4G BT-Antenna, Standing wave diagram



2.4G BT Standing wave pattern

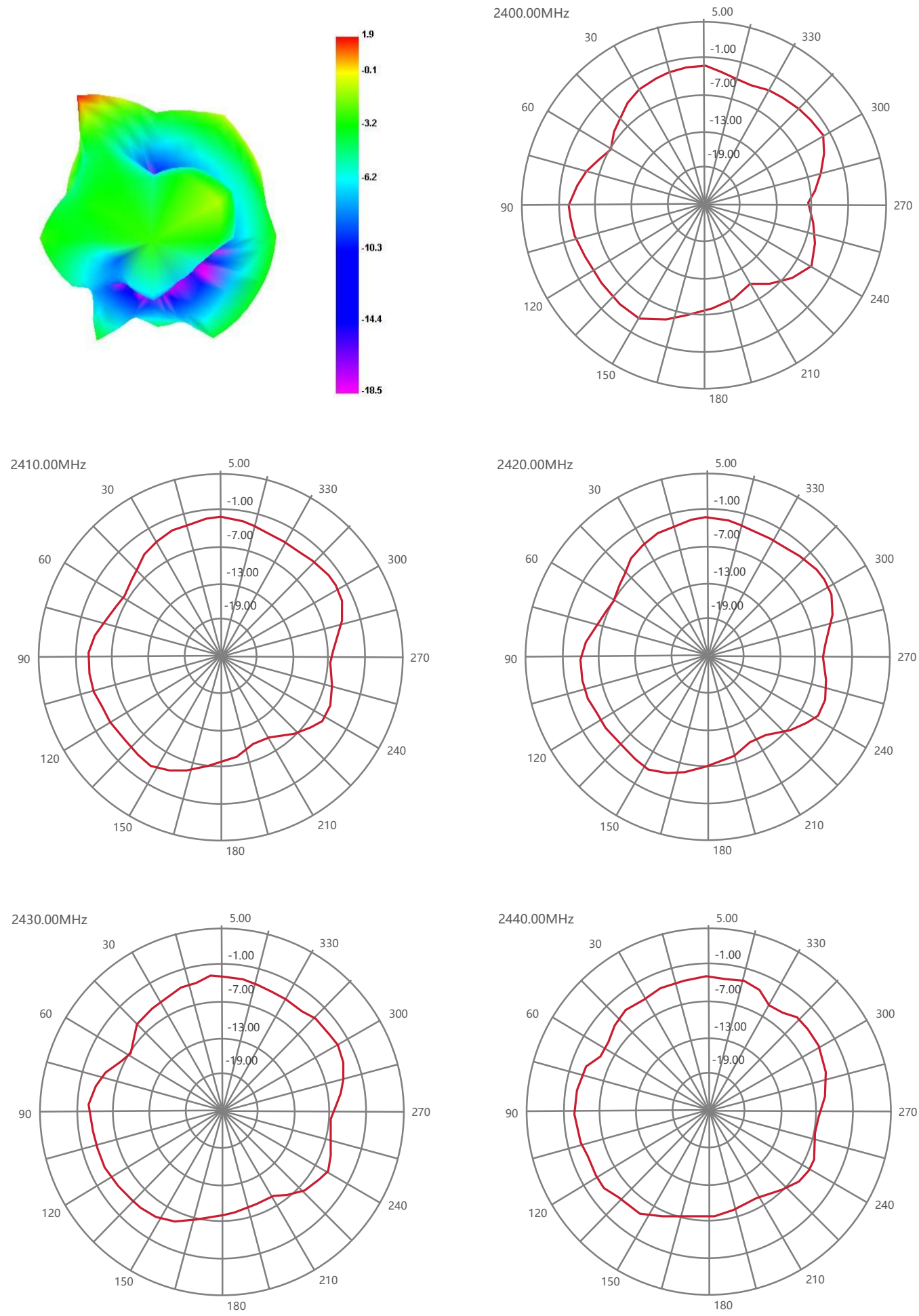


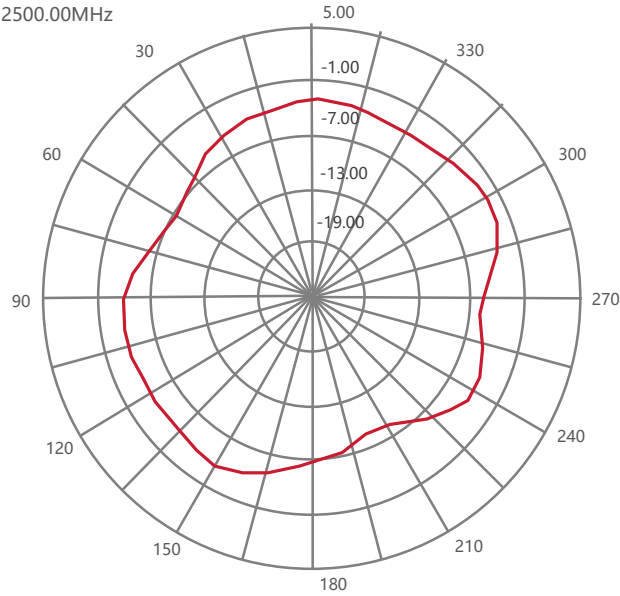
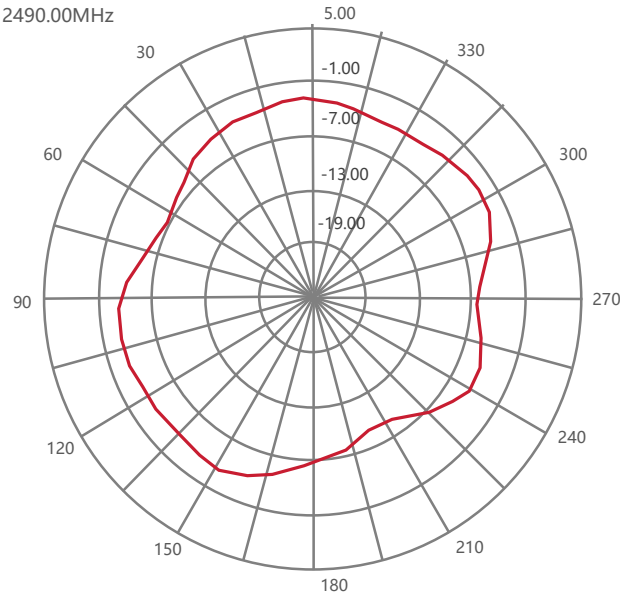
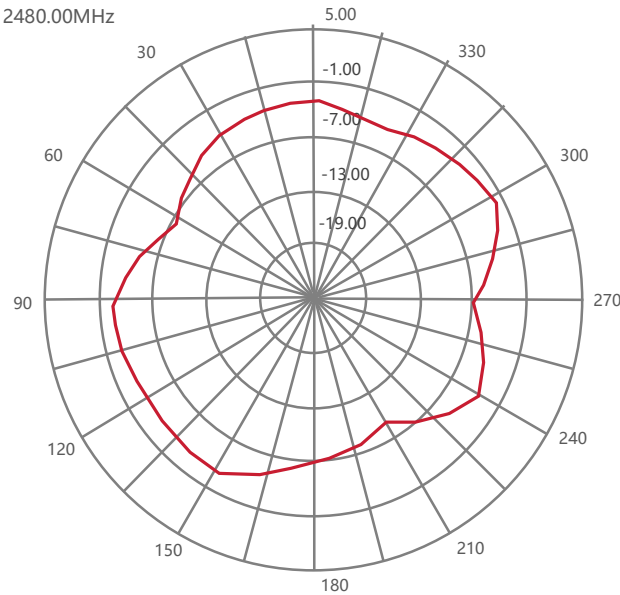
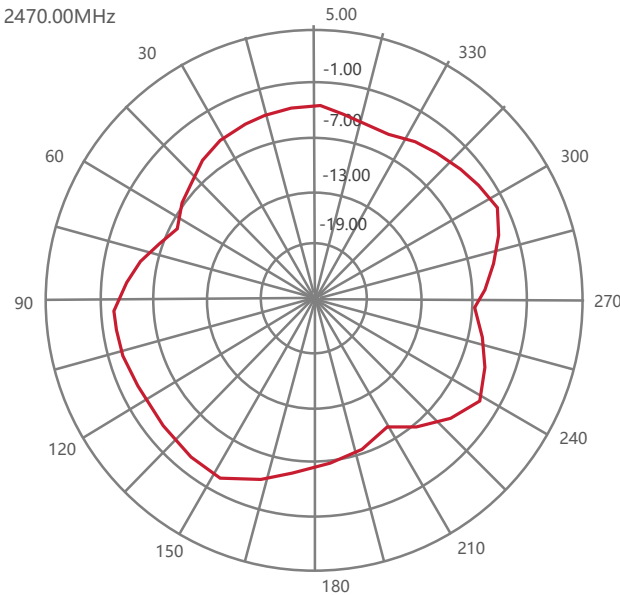
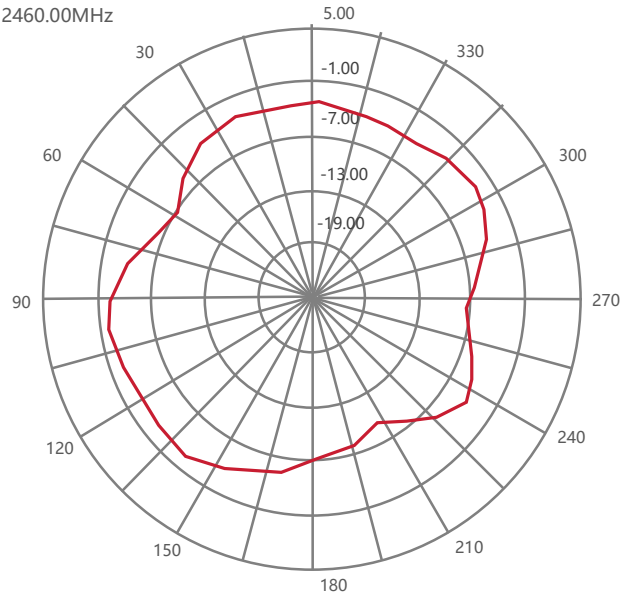
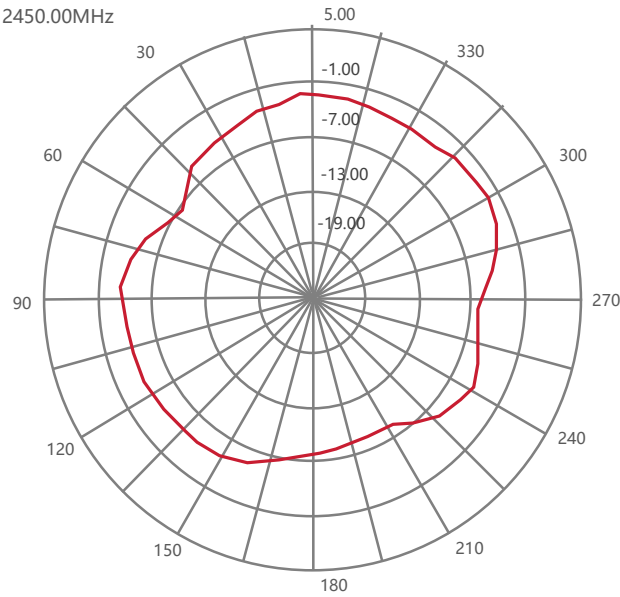
2.4G BT Standing wave return loss graph

1.2: BT-Antenna, Test data

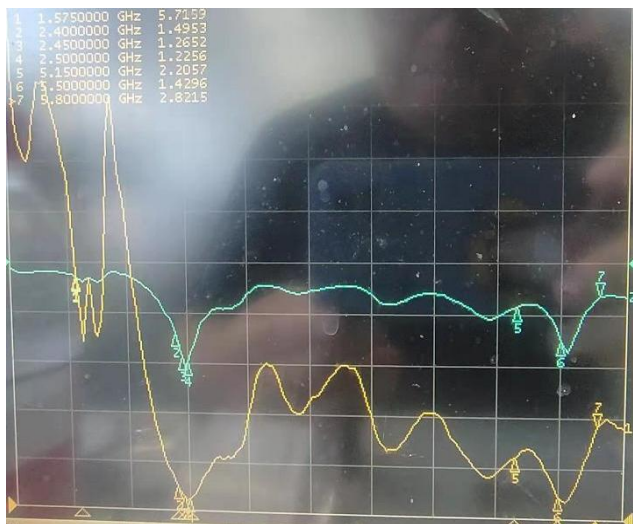
Passive Test For BT2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	39.56	-4.03	1.93	-0.22	15.453	24.104	1.93	-18.49	47.51	47.63
2410	37.2	-4.29	1.69	-0.46	14.231	22.972	1.69	-15.91	47.34	47.64
2420	31.04	-5.08	0.96	-1.19	11.746	19.291	0.96	-15.21	47.27	47.45
2430	26.87	-5.71	0.24	-1.91	10.278	16.592	0.24	-15.23	47.09	47.44
2440	26.63	-5.75	0.2	-1.95	10.314	16.315	0.2	-16.7	47.25	47.56
2450	28.69	-5.42	0.33	-1.82	11.239	17.452	0.33	-16.71	47.42	47.77
2460	35.43	-4.51	1.12	-1.03	14.206	21.224	1.12	-15.17	47.67	47.91
2470	42.21	-3.75	1.77	-0.38	17.644	24.57	1.77	-13.53	47.7	48.04
2480	50.38	-2.98	2.41	0.26	21.548	28.83	2.41	-11.51	47.89	48.23
2490	53.03	-2.76	2.38	0.23	23.235	29.791	2.38	-11.35	48.1	48.34
2500	48.71	-3.12	1.94	-0.21	21.36	27.353	1.94	-12.35	47.94	48.19

1.3: 2.4G BT-Antenna 3D





2.1: 2.4G WIFI-Antenna, Standing wave diagram



2.4G WIFI Standing wave pattern

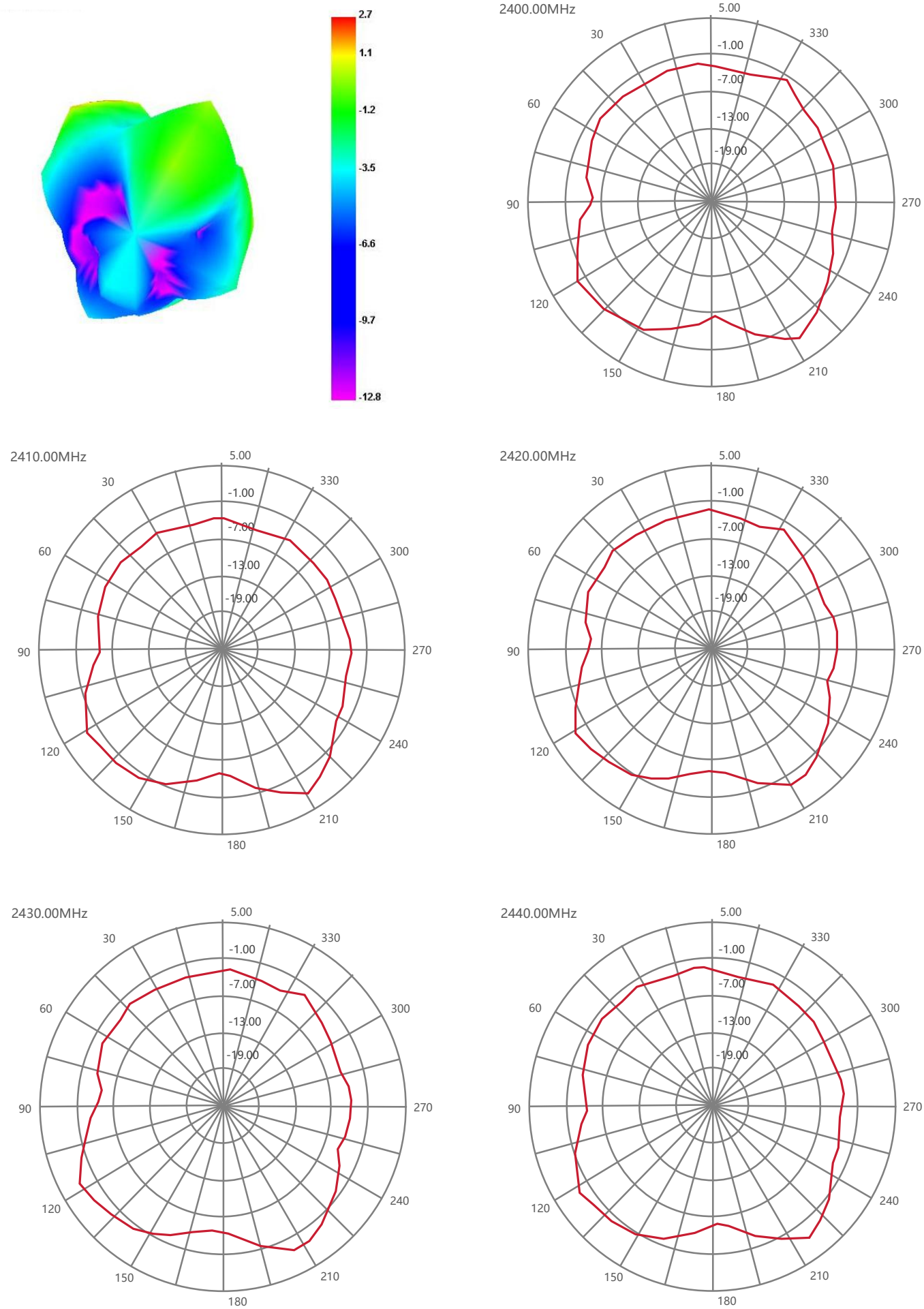


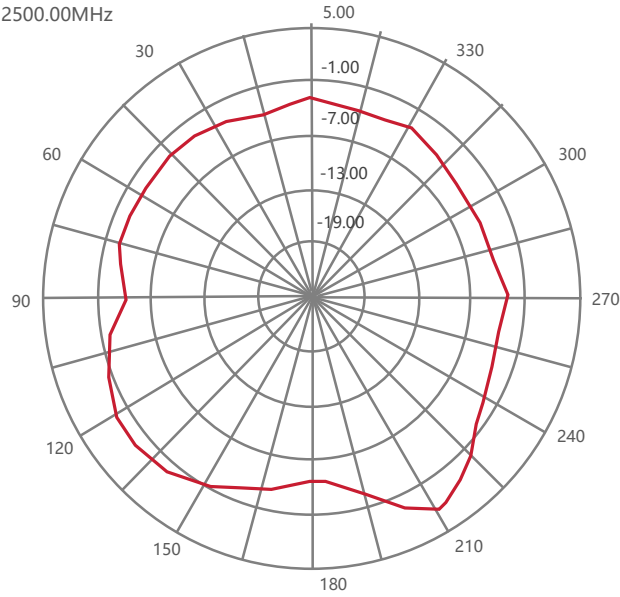
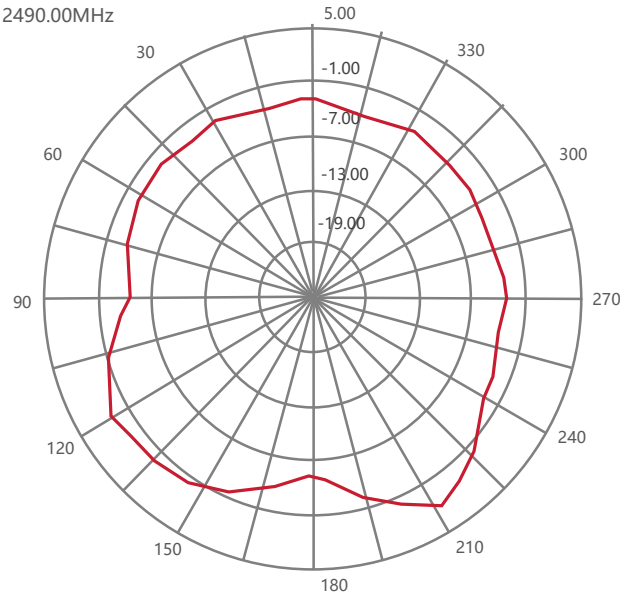
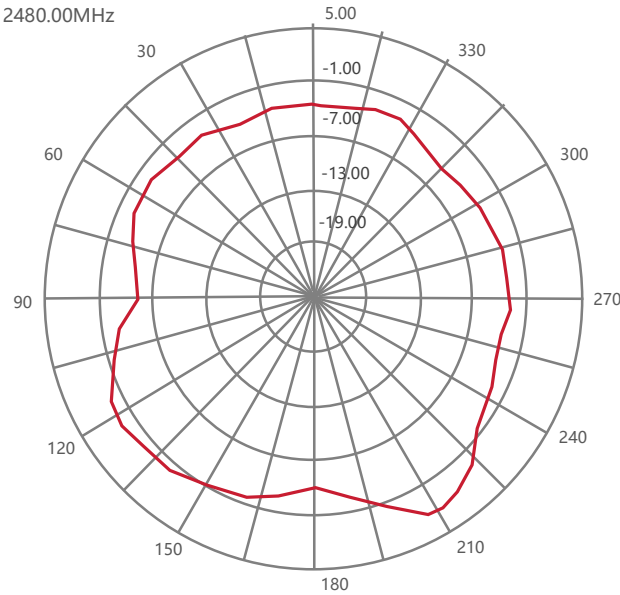
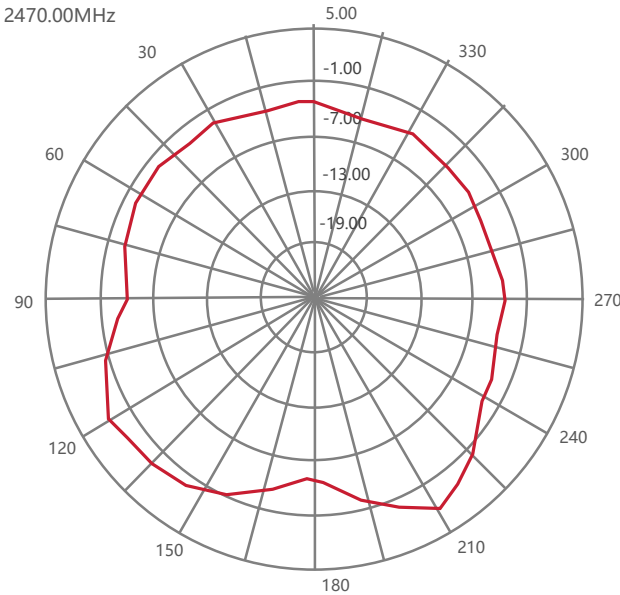
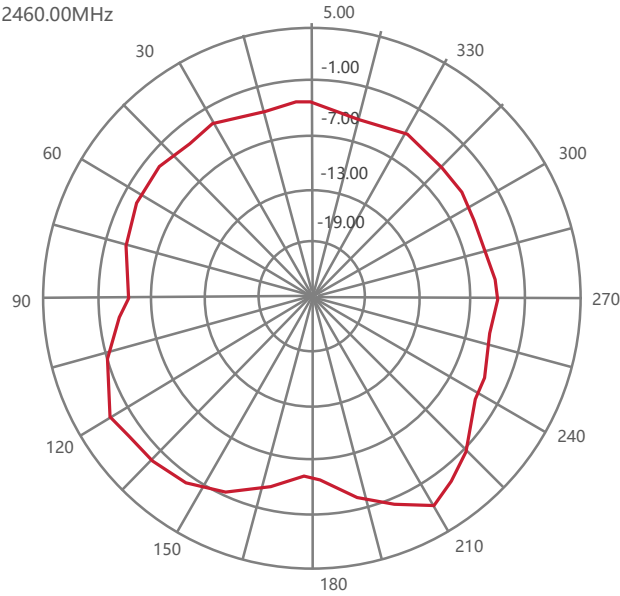
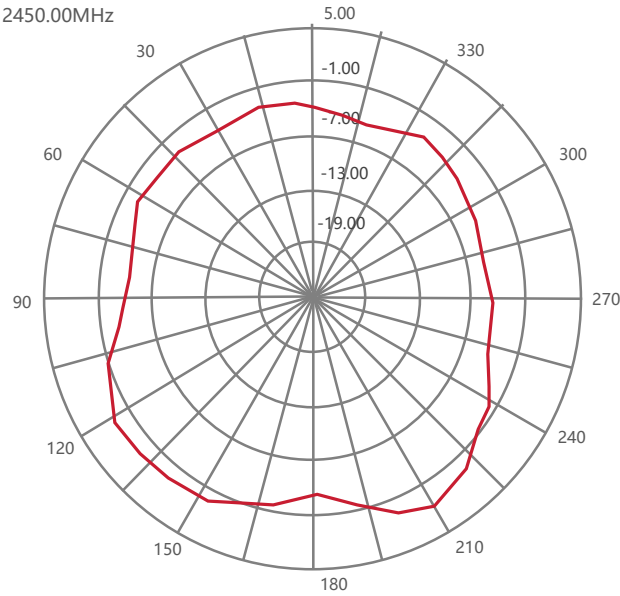
2.4G WIFI Standing wave return loss graph

2.2: 2.4G WIFI-Antenna, Test data

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	53.54	-2.71	2.60	0.54	19.492	34.052	2.69	-12.8	47.51	47.63
2410	54.29	-2.65	2.61	0.46	20.203	34.085	2.61	-14.41	47.34	47.64
2420	53.84	-2.69	2.27	0.12	20.785	33.051	2.27	-10.59	47.27	47.45
2430	49.48	-3.06	1.51	-0.64	20.047	29.43	1.51	-11.17	47.09	47.44
2440	49.2	-3.08	1.11	-1.04	20.545	28.657	1.11	-12.28	47.25	47.56
2450	48.62	-3.13	0.72	-1.43	21.471	27.153	0.72	-15.32	47.42	47.77
2460	48.82	-3.11	0.43	-1.72	22.612	26.21	0.43	-15.23	47.67	47.91
2470	49.56	-3.05	0.33	-1.82	24.105	25.458	0.33	-16.18	47.7	48.04
2480	52.29	-2.82	0.64	-1.51	26.415	25.875	0.64	-16.19	47.89	48.23
2490	53.4	-2.72	0.68	-1.47	27.686	25.714	0.68	-13.16	48.1	48.34
2500	48.33	-3.16	0.5	-1.65	25.571	22.762	0.5	-12.66	47.94	48.19

2.3: 2.4G WIFI-Antenna, 3D





3.1: 5.8G WIFI-Antenna, Standing wave diagram



5.8G WIFI Standing wave pattern



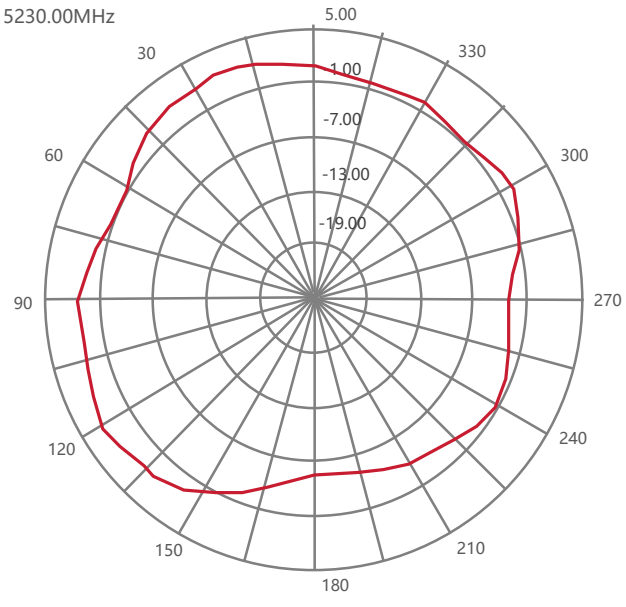
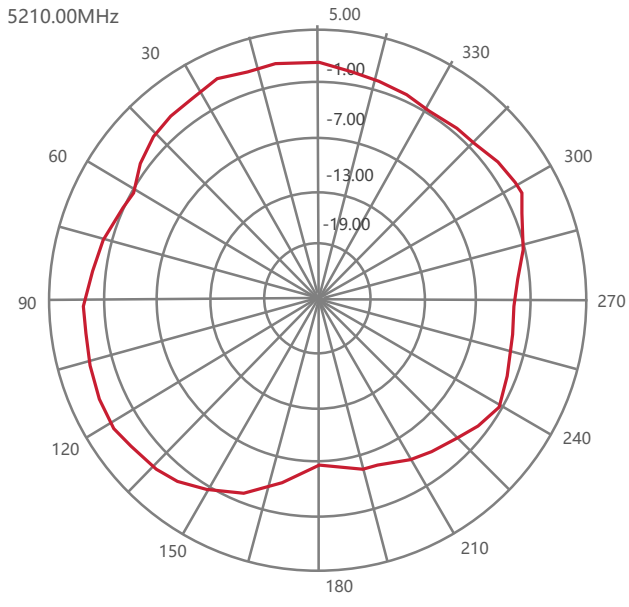
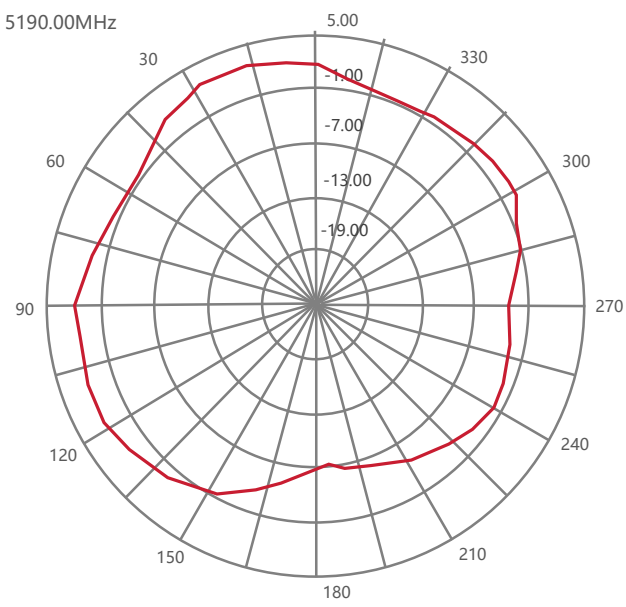
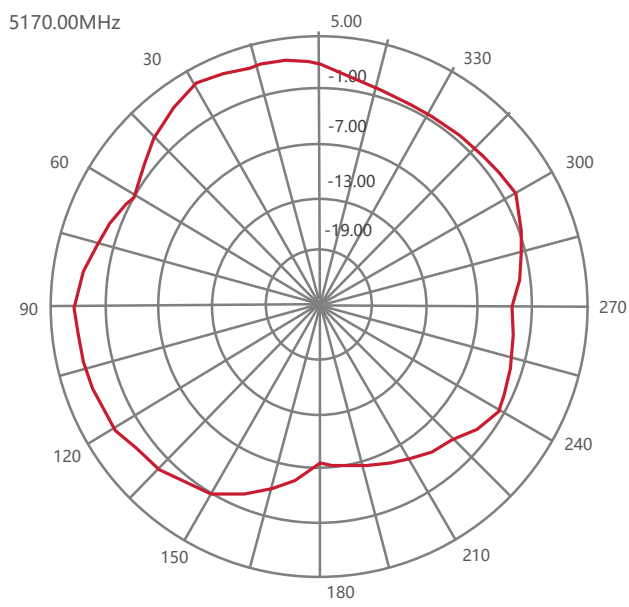
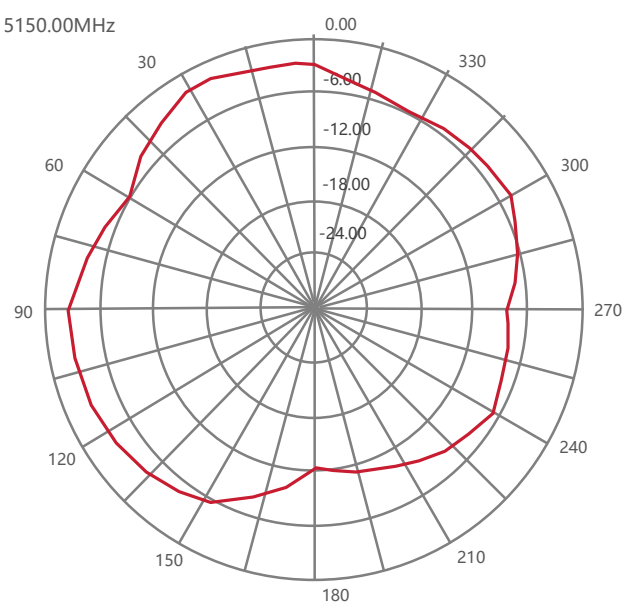
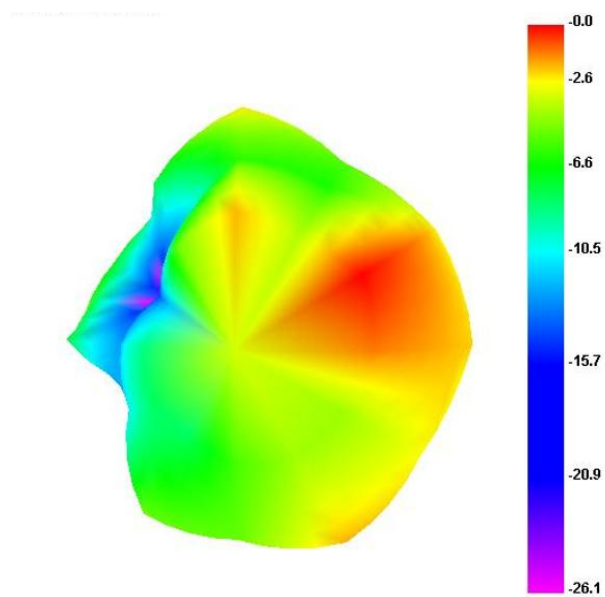
5.8G WIFI Standing wave return loss graph

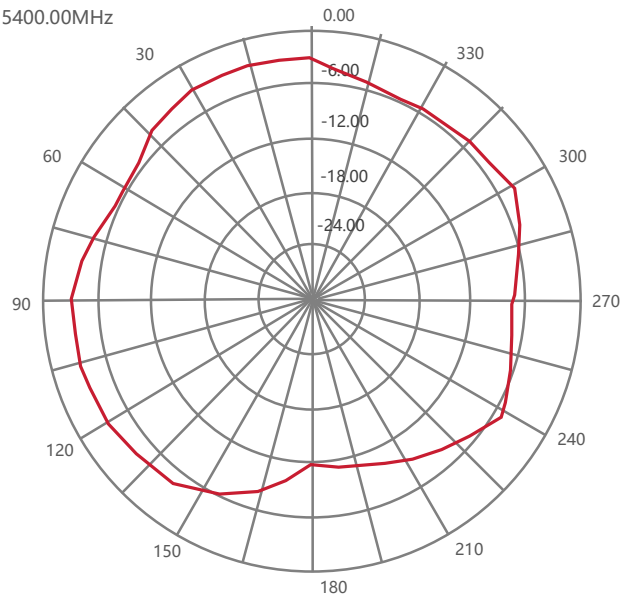
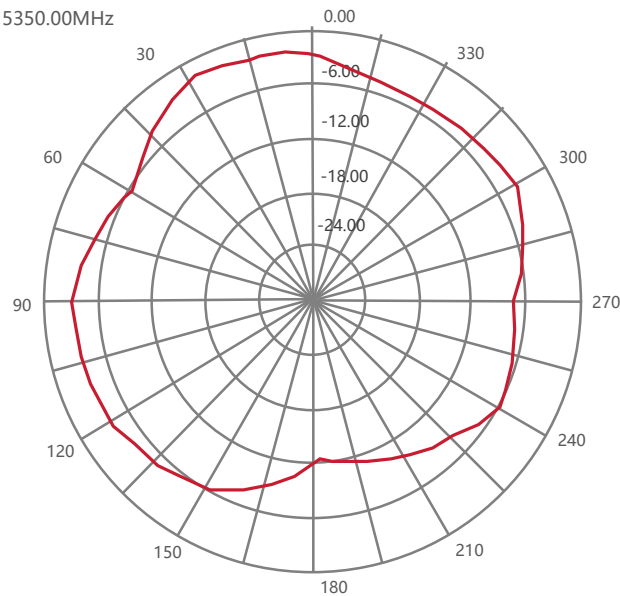
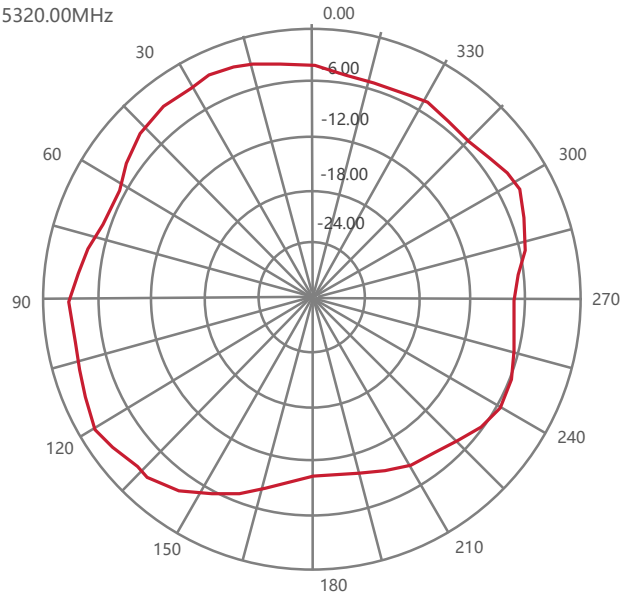
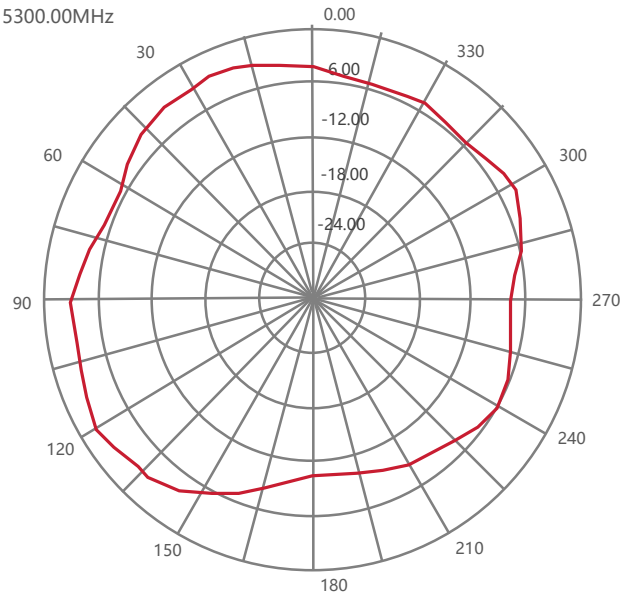
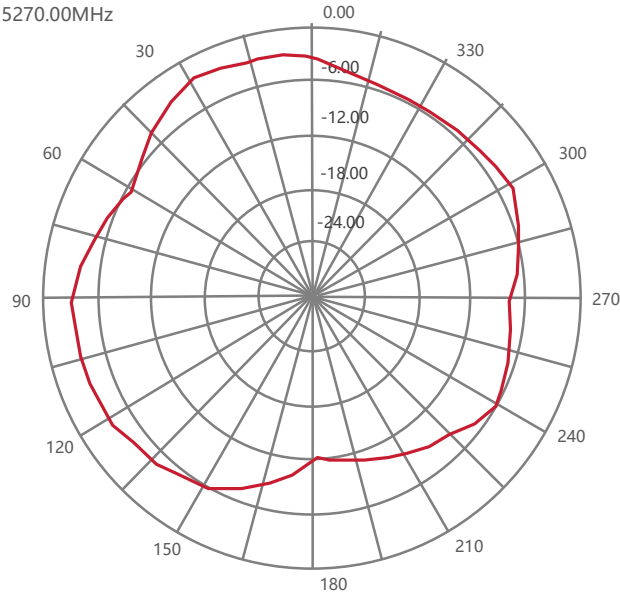
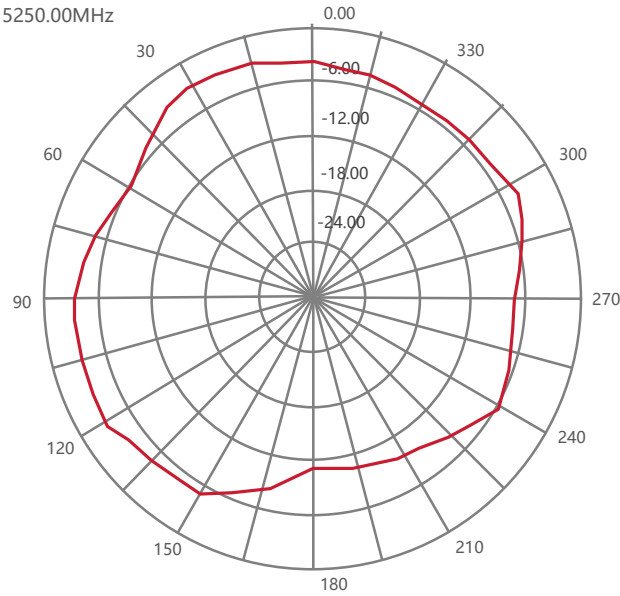
3.2: 5.8G WIFI-Antenna, Test data

Passive Test For WIFI5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	24.99	-6.02	-0.02	-2.17	15.542	9.448	-0.02	-26.14	56.04	56.11
5160	22.09	-6.56	-0.7	-2.85	13.7	8.394	-0.7	-26.71	55.94	55.86
5170	22.65	-6.45	-0.72	-2.87	14.179	8.473	-0.72	-27.14	55.74	55.67
5180	21.36	-6.7	-1.11	-3.26	13.379	7.984	-1.11	-28.08	56.03	55.65
5190	19.12	-7.19	-1.79	-3.94	11.903	7.215	-1.79	-30.57	55.68	55.83
5200	17.92	-7.47	-2.08	-4.23	11.328	6.592	-2.08	-28.39	55.87	55.81
5210	15.11	-8.21	-2.86	-5.01	9.585	5.526	-2.86	-26.54	55.94	55.96
5220	15.36	-8.14	-2.77	-4.92	9.783	5.573	-2.77	-26.28	55.86	55.79
5230	13.09	-8.83	-3.21	-5.36	8.498	4.596	-3.21	-26.38	55.99	55.84
5240	15.12	-8.21	-2.21	-4.36	9.802	5.315	-2.21	-24.38	56.05	55.72
5250	16.99	-7.7	-1.45	-3.6	10.833	6.159	-1.45	-25.37	55.81	55.6
5260	18.98	-7.22	-1.37	-3.52	12.089	6.891	-1.37	-24.42	55.61	55.43
5270	21.64	-6.65	-0.72	-2.87	13.861	7.779	-0.72	-23.28	55.78	55.36
5280	22.08	-6.56	-0.66	-2.81	14.055	8.023	-0.66	-26.12	55.63	55.51
5290	19.95	-7	-1.31	-3.46	12.711	7.239	-1.31	-26.12	55.97	55.74
5300	19.67	-7.06	-1.47	-3.62	12.494	7.178	-1.47	-28.15	55.77	55.91
5310	18.05	-7.44	-1.7	-3.85	11.5	6.548	-1.7	-40.05	56.17	56.1
5320	18.53	-7.32	-1.48	-3.63	12.092	6.438	-1.48	-33.44	56.2	56.14
5330	18.15	-7.41	-1.43	-3.58	11.789	6.361	-1.43	-33.41	56.64	56.39
5340	20.29	-6.93	-0.78	-2.93	13.39	6.898	-0.78	-33.38	56.47	56.34
5350	25.73	-5.9	0.11	-2.04	16.957	8.774	0.11	-27.5	56.43	56.64
5360	27.23	-5.65	0.64	-1.51	17.979	9.251	0.64	-24.19	56.34	56.36
5370	28.43	-5.46	0.96	-1.19	18.77	9.655	0.96	-22.13	56.12	56.43
5380	26.75	-5.73	0.67	-1.48	17.859	8.888	0.67	-23.31	55.97	56.11
5390	23.87	-6.22	0.26	-1.89	16.081	7.79	0.26	-23.58	55.88	56.4
5400	28.47	-5.46	1.4	-0.75	19.366	9.104	1.4	-22.18	56.99	57.12
5410	25.63	-5.91	0.91	-1.24	17.476	8.155	0.91	-22.6	56.78	57.1
5420	20.98	-6.78	-0.04	-2.19	14.374	6.606	-0.04	-22.48	56.82	57.07
5430	22.35	-6.51	0.3	-1.85	15.393	6.955	0.3	-23	56.67	56.92
5440	19.95	-7	-0.22	-2.37	13.843	6.109	-0.22	-24.08	56.4	57.01
5450	23.8	-6.23	0.68	-1.47	16.521	7.279	0.68	-24.46	56.77	57.2
5460	24.91	-6.04	0.79	-1.36	16.981	7.933	0.79	-23.6	56.77	57.86
5470	27.85	-5.55	1.2	-0.95	18.998	8.849	1.2	-23.83	56.93	57.46
5480	30.03	-5.22	1.46	-0.69	20.168	9.861	1.46	-23.54	57.18	58.28
5490	28.3	-5.48	1.36	-0.79	19.405	8.89	1.36	-22.88	57.75	58.05
5500	32.31	-4.91	1.96	-0.19	22.064	10.247	1.96	-21.78	57.51	58.66

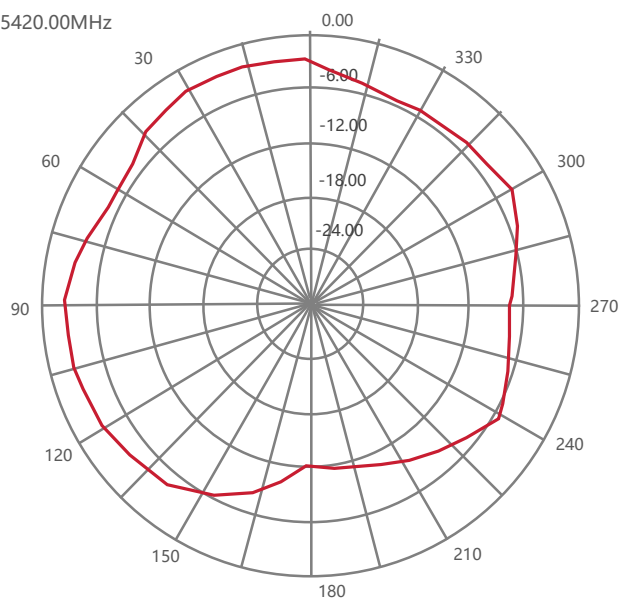
5510	31.05	-5.08	1.98	-0.17	21.709	9.341	1.98	-23.33	58.01	58.63
5520	33.68	-4.73	2.21	0.06	23.378	10.305	2.21	-20.26	58.12	59.28
5530	32.55	-4.87	2.27	0.12	22.699	9.848	2.27	-20.04	58.14	59.07
5540	30.88	-5.1	1.88	-0.27	21.18	9.702	1.88	-18.81	58.38	59.54
5550	35.16	-4.54	2.15	0	24.178	10.984	2.15	-20.57	58.62	59.51
5560	37.11	-4.31	2.63	0.48	25.865	11.243	2.63	-22.01	58.45	59.46
5570	41.4	-3.83	3.21	1.06	28.291	13.112	3.21	-19.99	58.46	59.67
5580	40.61	-3.91	3.19	1.04	27.617	12.993	3.19	-17.38	58.81	59.4
5590	39.28	-4.06	2.9	0.75	26.95	12.327	2.9	-19.56	58.36	59.49
5600	33.62	-4.73	2.32	0.17	23.662	9.963	2.32	-20.23	58.64	59.51
5610	38.09	-4.19	3.07	0.92	26.93	11.158	3.07	-21.54	58.68	59.72
5620	39.86	-4	3.32	1.17	28.16	11.696	3.32	-19.3	58.86	59.73
5630	40.35	-3.94	3.23	1.08	28.191	12.159	3.23	-18.81	58.61	60.11
5640	38.25	-4.17	2.86	0.71	26.575	11.679	2.86	-18.93	59.03	59.48
5650	38.23	-4.18	2.83	0.68	26.726	11.506	2.83	-19.11	58.72	59.67
5660	42.9	-3.68	3.34	1.19	29.795	13.102	3.34	-19.7	58.75	59.52
5670	46.15	-3.36	3.74	1.59	31.876	14.277	3.74	-20.95	58.69	59.35
5680	44.48	-3.52	3.66	1.51	30.533	13.947	3.66	-19.49	58.38	59.25
5690	42.12	-3.75	3.34	1.19	28.799	13.326	3.34	-18.24	58.39	59.33
5700	37.99	-4.2	2.95	0.8	26.628	11.367	2.95	-19.61	58.69	59.26
5710	39	-4.09	3.2	1.05	27.637	11.365	3.2	-20.66	58.69	59.44
5720	43.03	-3.66	3.58	1.43	29.959	13.066	3.58	-20.36	58.79	59.84
5730	41.47	-3.82	3.57	1.42	28.819	12.646	3.57	-19.16	58.98	59.61
5740	42.2	-3.75	3.52	1.37	29.387	12.809	3.52	-17.62	59.16	59.57
5750	40.91	-3.88	2.99	0.84	27.978	12.936	2.99	-17.93	58.87	59.81
5760	44.9	-3.48	3.48	1.33	30.623	14.279	3.48	-17.92	59.25	59.37
5770	47.48	-3.23	3.68	1.53	32.117	15.367	3.68	-16.95	58.49	59.49
5780	46.43	-3.33	3.55	1.4	31.51	14.916	3.55	-17.25	58.71	59.37
5790	39.74	-4.01	2.78	0.63	27.028	12.715	2.78	-18.71	58.45	59.66
5800	34.09	-4.67	2.42	0.27	23.903	10.187	2.42	-19.33	58.86	59.22
5810	29.59	-5.29	1.59	-0.56	20.114	9.475	1.59	-20.05	58.41	59.69
5820	28.1	-5.51	1.56	-0.59	19.87	8.232	1.56	-19.67	59.04	59.38
5830	27.17	-5.66	1.21	-0.94	18.7	8.474	1.21	-21.31	58.69	59.65
5840	32.12	-4.93	1.84	-0.31	21.696	10.427	1.84	-19.67	58.84	59.65
5850	35.75	-4.47	2.01	-0.14	23.593	12.153	2.01	-18.35	58.91	60.12

3.3: 5.8G WIFI-Antenna, 3D

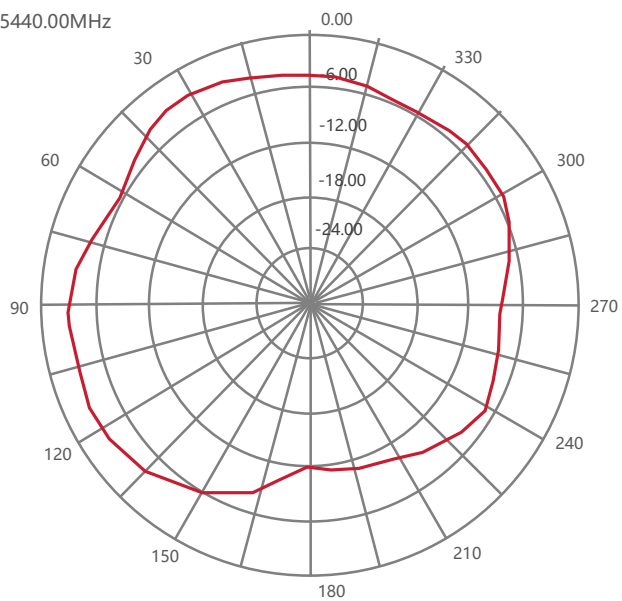




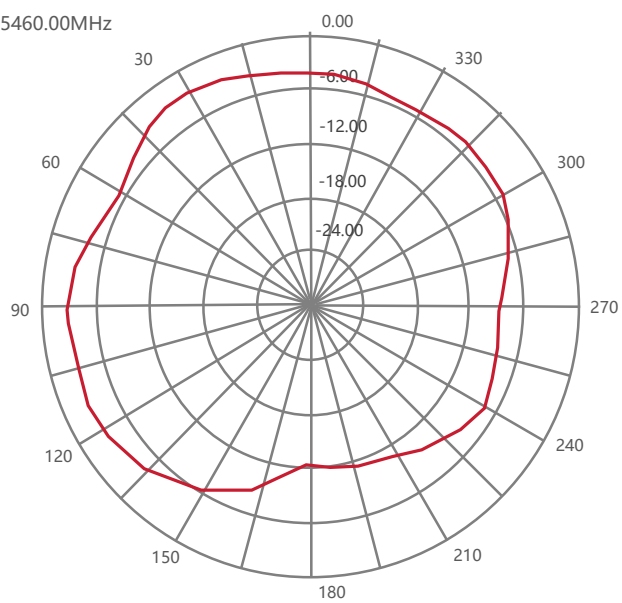
5420.00MHz



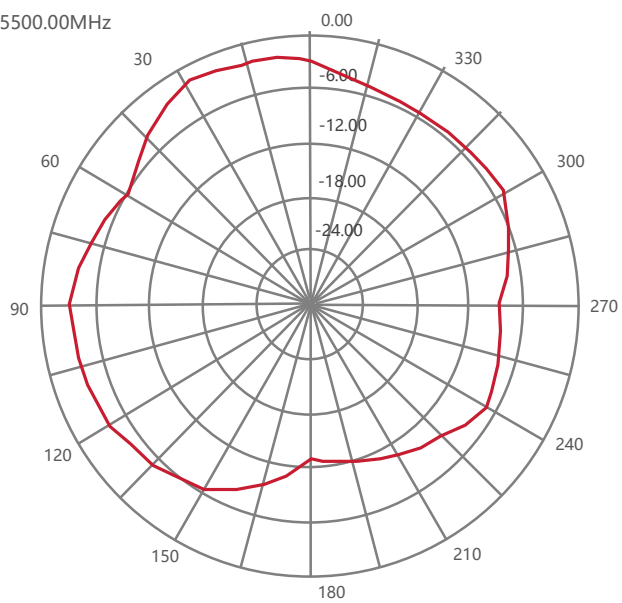
5440.00MHz



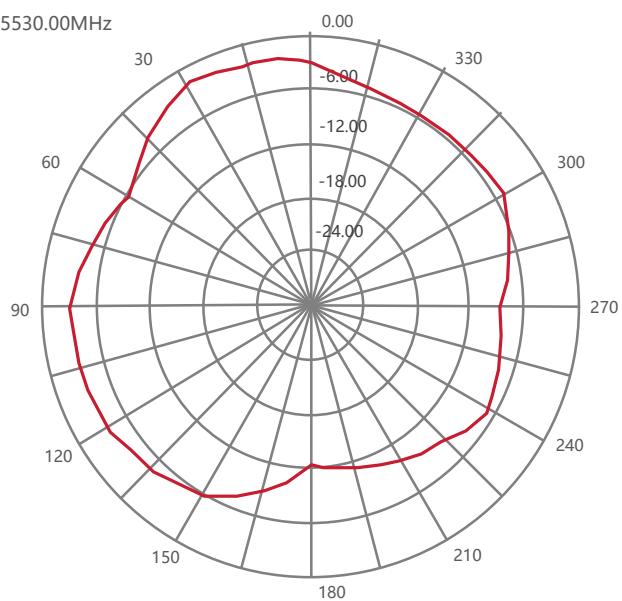
5460.00MHz



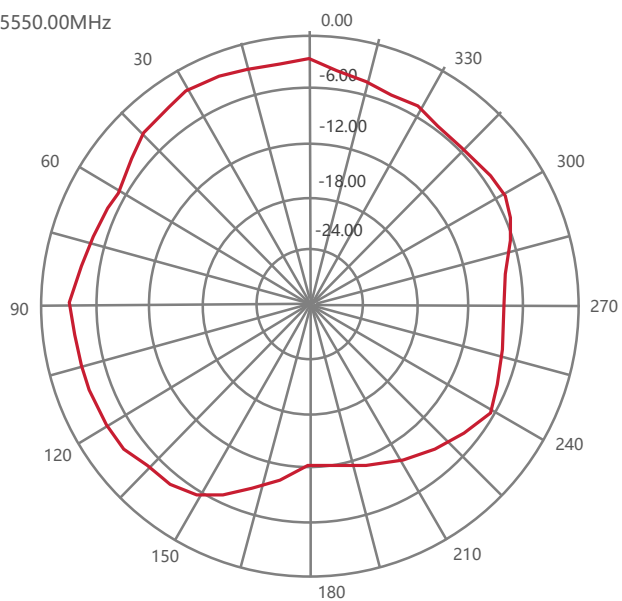
5500.00MHz

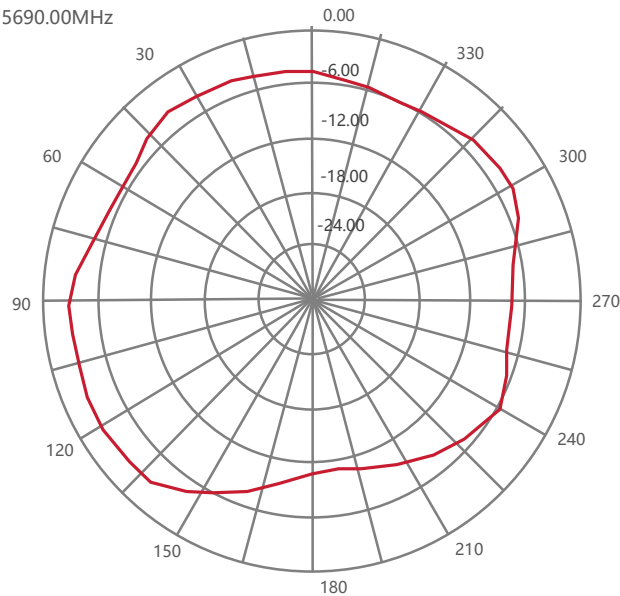
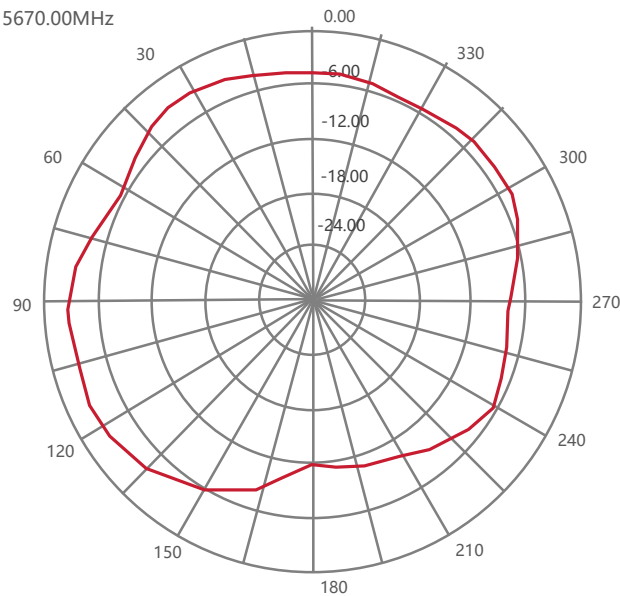
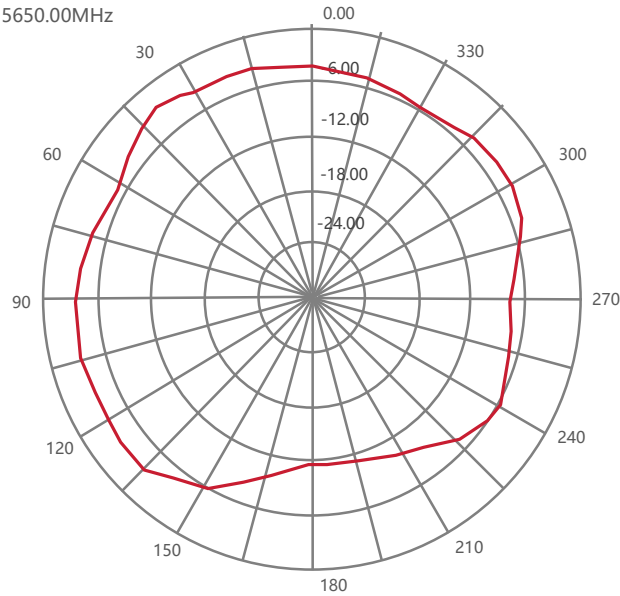
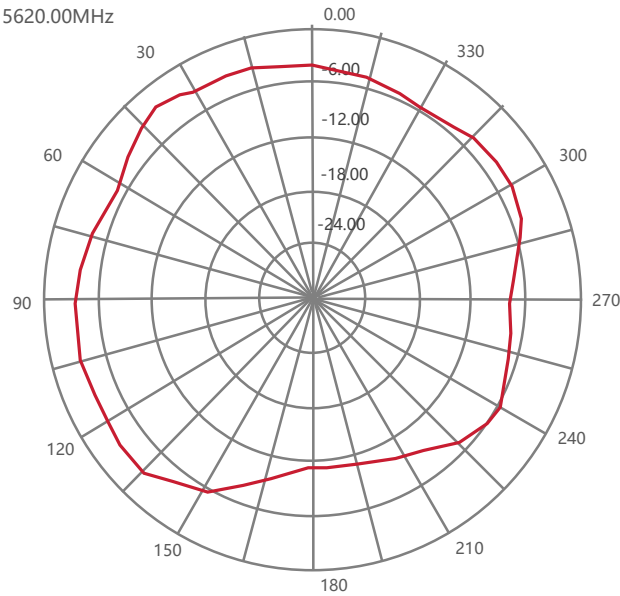
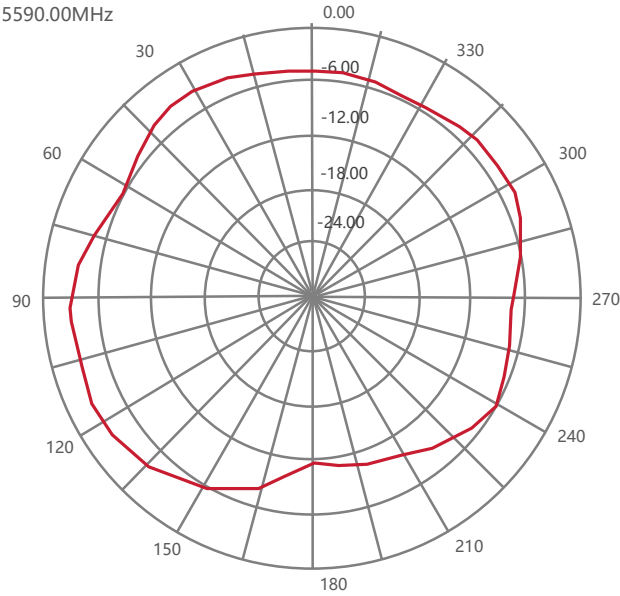
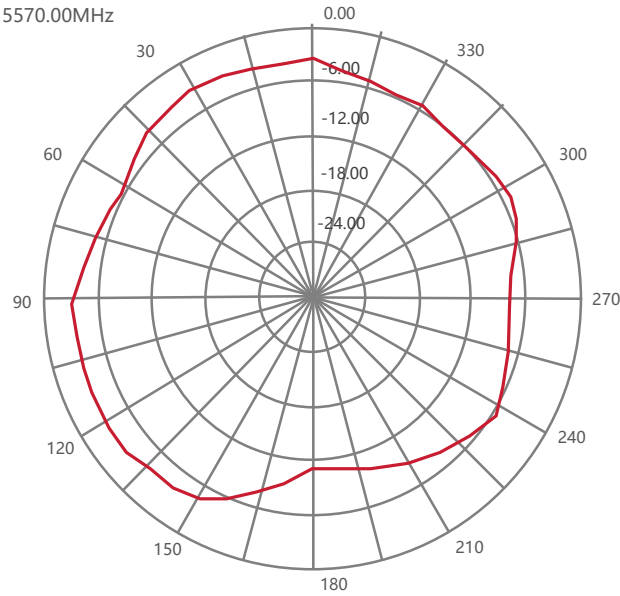


5530.00MHz

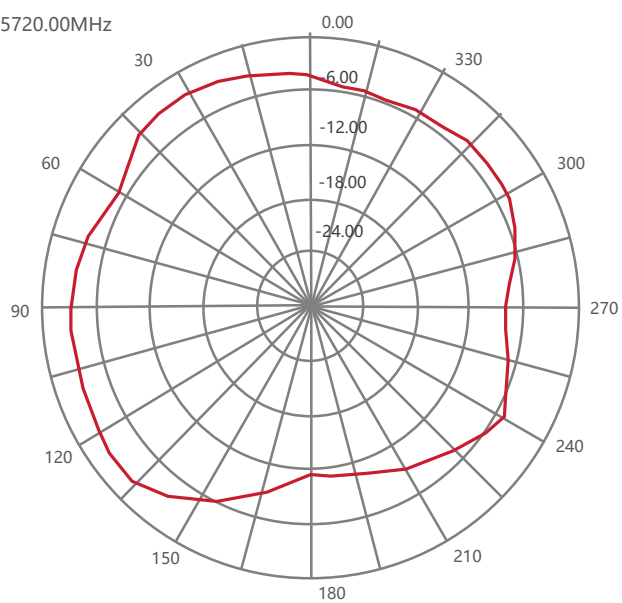


5550.00MHz

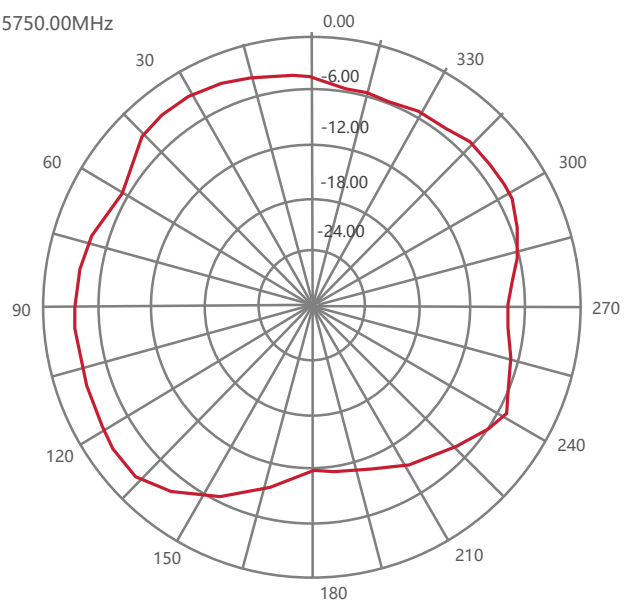




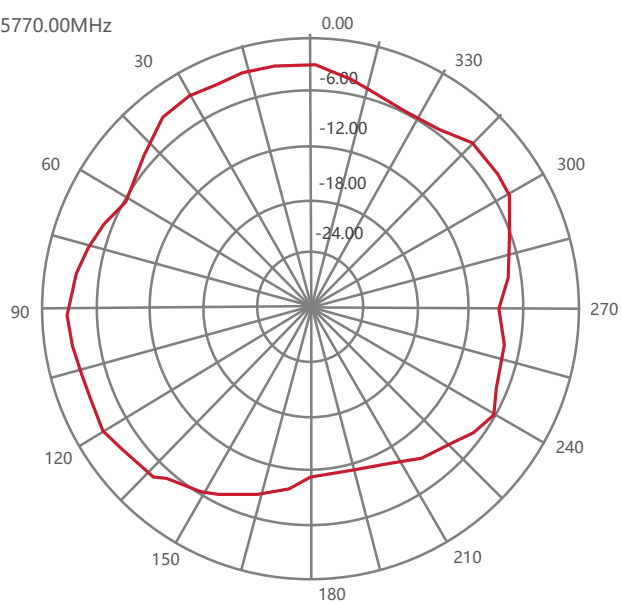
5720.00MHz



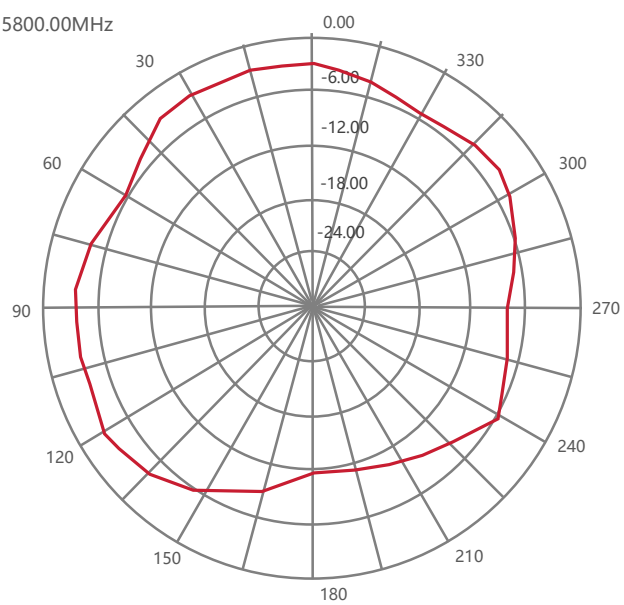
5750.00MHz



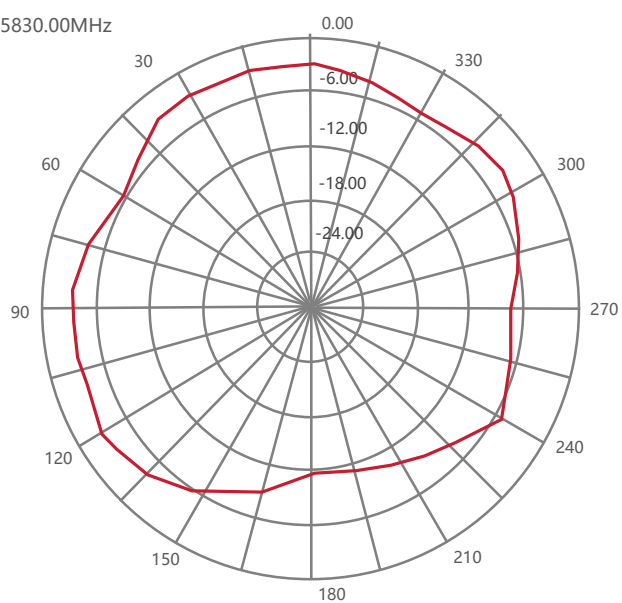
5770.00MHz



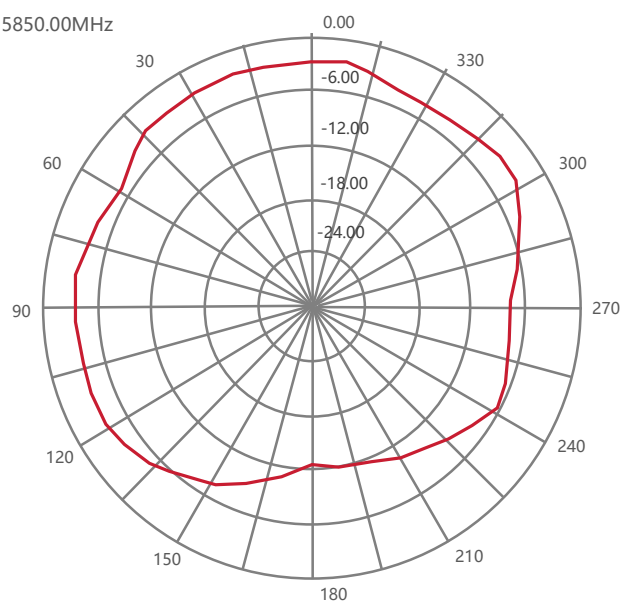
5800.00MHz



5830.00MHz



5850.00MHz





深圳市创引科技有限公司

Shenzhen Chuangyin Technology Co., Ltd.

规格书

SPECIFICATION FOR APPROVAL

客户 <u>Customer</u>	
项目名 <u>Project</u>	SMA-4G antenna
频段 <u>Band</u>	600-2800MHz
CY 料号 <u>Part number</u>	R2JZ-4G-1-H
版本 <u>Version</u>	A0
射频 <u>RF</u>	
结构 <u>ME</u>	
业务 <u>Sale</u>	
日期 <u>Date</u>	2025-9-12
客户项目名称 <u>Customer project name</u>	
客户料号 <u>Customer part number</u>	

承 认 人 签 章 Signature		
制定 Responsible	审核 Approve	客户确认 Confirm

深圳市创引科技有限公司

[illegible]

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of.

The antenna is a 600-2800MHz Band . The antenna Picture and assembly are shown below.



antenna Picture & assembly Picture

2. Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

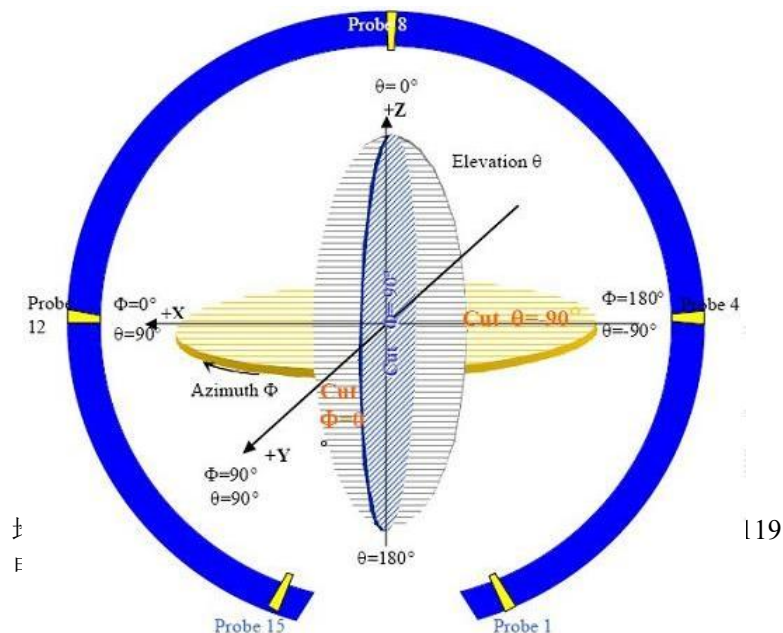


图 4 3D 微波暗室测试坐标系 (back view)

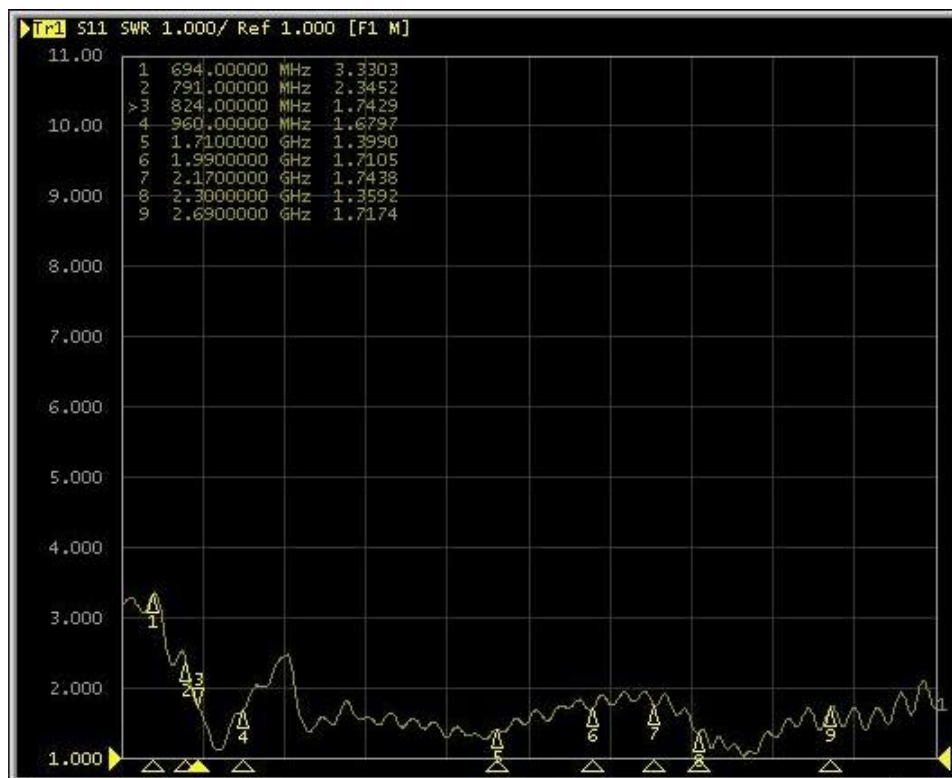
3. Electrical Specification

3-1 Frequency Requirements

Antenna working band at 600-2800MHz ; Resonate in this frequency band.

3-2 Passive S11 parameter

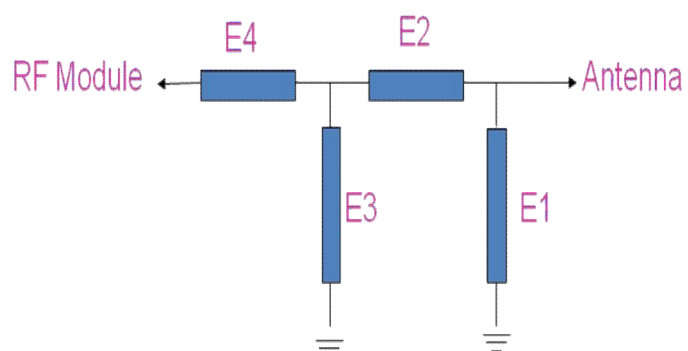
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



VSWR

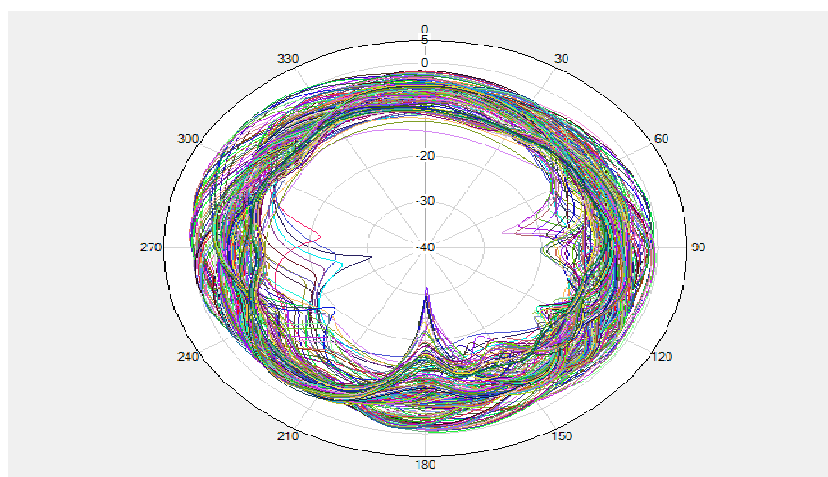
Frequency	791	824	960	1710	1990	2170	2700
VSWR	2.34	1.74	1.67	1.39	1.71	1.74	1.58

3-3 Antenna Matching Network

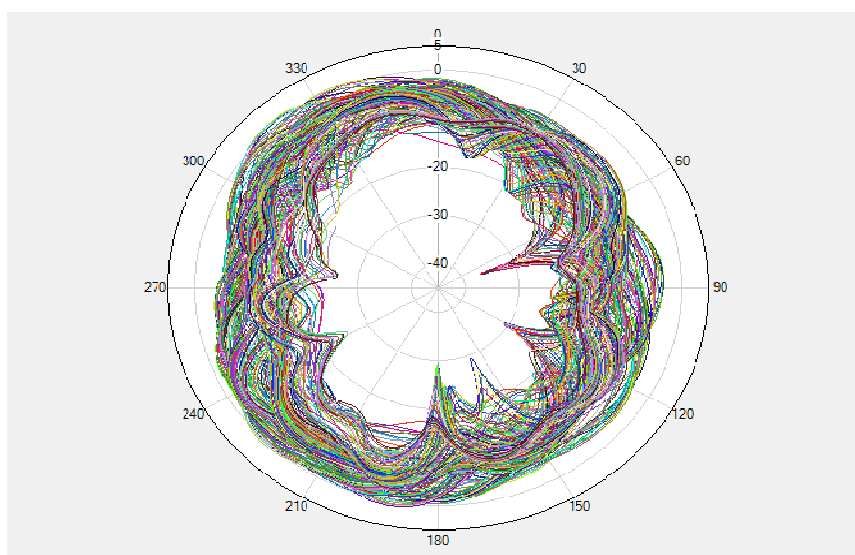


Element	Capacitor	Inductor
E1	N/A	N/A
E2	N/A	N/A
E3	N/A	N/A
E4	N/A	N/A

3-4 2D Pattern

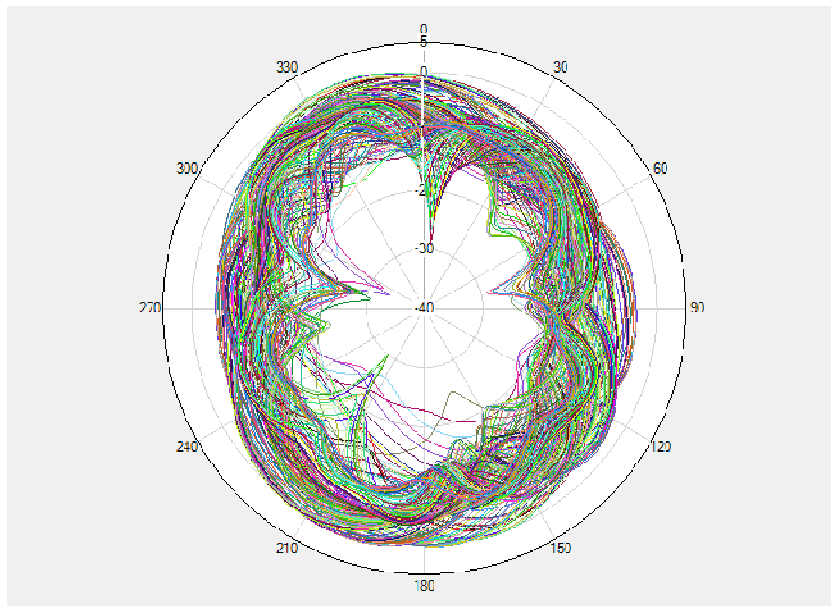


X-Z Plane



Y-Z Plane

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X-Y Plane

3-5 Efficiency and Gain Value

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
600	-5.67	-9.88	10.28
610	-9.85	-13.73	4.24
620	-9.59	-13.69	4.28
630	-10.15	-14.46	3.58
640	-10.34	-14.9	3.24
650	-8.56	-14.61	3.46
660	-6.37	-13.34	4.63
670	-5.82	-12.92	5.11
680	-5.99	-12.83	5.21
690	-5.78	-13.59	4.38
700	-7.77	-15.24	2.99
710	-9.49	-16.11	2.45
720	-10.71	-15.79	2.64
730	-10.38	-14.55	3.51
740	-8.12	-13.05	4.95
750	-6.22	-12.25	5.96
760	-5.07	-11.34	7.35
770	-3.98	-10.54	8.83
780	-2.39	-9.16	12.13
790	-1.13	-8.22	15.07
800	-2.14	-7.74	16.83
810	-0.54	-6.39	22.96
820	0.45	-5.23	29.99
830	0.53	-4.47	35.73
840	1.08	-4.01	39.72
850	1.1	-3.84	41.3
860	1.03	-4.16	38.37
870	1.33	-3.94	40.36
880	2.09	-3.98	39.99
890	2.1	-3.84	41.3
900	2.3	-3.79	41.78
910	1.96	-3.9	40.74
920	1.64	-4.08	39.08
930	0.86	-4.32	36.98
940	1.04	-4.25	37.58
950	0.98	-4.12	38.73
960	0.47	-4.52	35.32
970	0.13	-4.7	33.88
980	0.61	-4.35	36.73
990	0.37	-4.61	34.59
1000	0.41	-4.76	33.42

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1010	0.64	-4.71	33.81
1020	0.61	-4.93	32.14
1030	0.34	-5.15	30.55
1040	0.5	-4.95	31.99
1050	0.28	-5.14	30.62
1060	-0.15	-5.8	26.3
1070	-0.23	-5.83	26.12
1080	-0.23	-5.88	25.82
1090	-0.29	-5.91	25.64
1100	-0.43	-6.16	24.21
1110	-0.48	-6.35	23.17
1120	-0.62	-6.81	20.84
1130	-0.08	-6.35	23.17
1140	0.4	-5.9	25.7
1150	0.03	-6.26	23.66
1160	0.1	-6.2	23.99
1170	0.53	-5.83	26.12
1180	0.73	-5.61	27.48
1190	0.97	-5.52	28.05
1200	1.07	-5.41	28.77
1210	0.86	-5.85	26
1220	0.6	-6.08	24.66
1230	0.88	-5.89	25.76
1240	0.97	-5.67	27.1
1250	1.03	-5.59	27.61
1260	0.68	-5.8	26.3
1270	0.06	-6.34	23.23
1280	0.21	-6.1	24.55
1290	0.9	-5.58	27.67
1300	0.75	-5.71	26.85
1310	0.55	-5.89	25.76
1320	0.63	-5.8	26.3
1330	0.85	-5.41	28.77
1340	0.87	-5.21	30.13
1350	1.01	-5.02	31.48
1360	0.55	-5.34	29.24
1370	0.34	-5.3	29.51
1380	0.74	-4.95	31.99
1390	0.79	-4.75	33.5
1400	0.49	-4.85	32.73

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Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1410	0.24	-5.02	31.48	1810	0.08	-6.05	24.83
1420	0.43	-4.99	31.7	1820	-0.22	-6.45	22.65
1430	-0.01	-5.17	30.41	1830	-0.16	-6.24	23.77
1440	0.67	-4.84	32.81	1840	0.34	-5.85	26
1450	0.37	-5.11	30.83	1850	-0.08	-6.09	24.6
1460	-0.11	-5.54	27.93	1860	0.32	-5.81	26.24
1470	-0.58	-5.71	26.85	1870	0.12	-5.82	26.18
1480	-0.05	-5.72	26.79	1880	0.65	-5.55	27.86
1490	-0.31	-5.35	29.17	1890	0.91	-5.3	29.51
1500	0.15	-5.31	29.44	1900	1.03	-5.18	30.34
1510	0.09	-5.44	28.58	1910	0.27	-5.61	27.48
1520	0.06	-5.66	27.16	1920	0.81	-5.11	30.83
1530	0.02	-5.51	28.12	1930	0.34	-5.41	28.77
1540	0.29	-5.48	28.31	1940	1.27	-5.17	30.41
1550	-0.22	-5.3	29.51	1950	1.21	-5.15	30.55
1560	-0.51	-5.56	27.8	1960	1.22	-5.56	27.8
1570	-0.46	-5.69	26.98	1970	1.12	-5.49	28.25
1580	0.31	-5.24	29.92	1980	1.23	-5.52	28.05
1590	0.47	-5.21	30.13	1990	1.21	-5.47	28.38
1600	0.56	-5.27	29.72	2000	1.23	-5.69	26.98
1610	0.49	-5.51	28.12	2010	0.8	-5.78	26.42
1620	-0.22	-5.98	25.23	2020	0.54	-6.01	25.06
1630	0.5	-5.38	28.97	2030	0.46	-5.87	25.88
1640	0.63	-5.27	29.72	2040	0.5	-5.92	25.59
1650	0.79	-5.51	28.12	2050	0.31	-6.08	24.66
1660	0.75	-5.72	26.79	2060	0.59	-5.87	25.88
1670	0.94	-5.9	25.7	2070	0.11	-6.02	25
1680	1.16	-5.83	26.12	2080	-0.07	-6.06	24.77
1690	1.83	-5.47	28.38	2090	0.06	-5.97	25.29
1700	1.79	-5.6	27.54	2100	-0.06	-6.33	23.28
1710	1.25	-5.93	25.53	2110	0.8	-5.8	26.3
1720	0.95	-5.98	25.23	2120	0.57	-5.99	25.18
1730	0.62	-6.03	24.95	2130	0.79	-5.85	26
1740	0.93	-5.7	26.92	2140	-0.34	-6.38	23.01
1750	0.8	-5.67	27.1	2150	0.02	-6.55	22.13
1760	0.54	-5.99	25.18	2160	-0.59	-6.7	21.38
1770	0.25	-6.15	24.27	2170	-0.04	-6.36	23.12
1780	0.51	-5.92	25.59	2180	-0.44	-6.43	22.75
1790	0.54	-5.79	26.36	2190	-0.53	-6.8	20.89
1800	0.58	-5.83	26.12	2200	-0.79	-7.08	19.59

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Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2210	-0.51	-6.91	20.37
2220	-0.71	-6.99	20
2230	-0.94	-6.99	20
2240	-1.37	-7.2	19.05
2250	-1.28	-7.08	19.59
2260	-1.06	-6.87	20.56
2270	-0.74	-6.57	22.03
2280	-1.02	-6.84	20.7
2290	-1.31	-7.28	18.71
2300	-1.5	-7.59	17.42
2310	-0.44	-6.9	20.42
2320	-0.33	-6.99	20
2330	-0.81	-7.32	18.54
2340	-0.55	-7.36	18.37
2350	-0.85	-7.61	17.34
2360	-0.04	-7.29	18.66
2370	0.11	-6.97	20.09
2380	-0.34	-7.25	18.84
2390	-1.05	-7.68	17.06
2400	-0.49	-7.2	19.05
2410	-0.29	-7.16	19.23
2420	0.03	-6.9	20.42
2430	0.27	-6.58	21.98
2440	-0.14	-6.88	20.51
2450	0.23	-6.6	21.88
2460	0.71	-6.44	22.7
2470	0.97	-6.24	23.77
2480	0.68	-6.45	22.65
2490	0.69	-6.35	23.17
2500	0.51	-6.53	22.23
2510	0.45	-5.65	27.23
2520	0.57	-5.64	27.29
2530	0.27	-5.6	27.54
2540	-0.25	-5.98	25.23
2550	-0.52	-6.17	24.15
2560	-0.35	-6.33	23.28
2570	-0.2	-6.41	22.86
2580	-0.39	-6.74	21.18
2590	-1.28	-7.39	18.24
2600	-1.7	-7.58	17.46

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2610	-1.62	-7.56	17.54
2620	-1.13	-7.23	18.92
2630	-1.58	-7.7	16.98
2640	-2.18	-8.29	14.83
2650	-2.86	-8.91	12.85
2660	-2.55	-8.52	14.06
2670	-2.27	-8.31	14.76
2680	-2.45	-8.49	14.16
2690	-3.41	-9.1	12.3
2700	-3.69	-9.1	12.3
2710	-3.99	-10.25	9.44
2720	-3.93	-10.03	9.93
2730	-4.23	-10.19	9.57
2740	-4.61	-10.44	9.04
2750	-5.02	-10.46	8.99
2760	-4.39	-9.66	10.81
2770	-4.54	-9.62	10.91
2780	-5.02	-9.84	10.38
2790	-6.08	-10.41	9.1
2800	-6.19	-10.59	8.73

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4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 6

