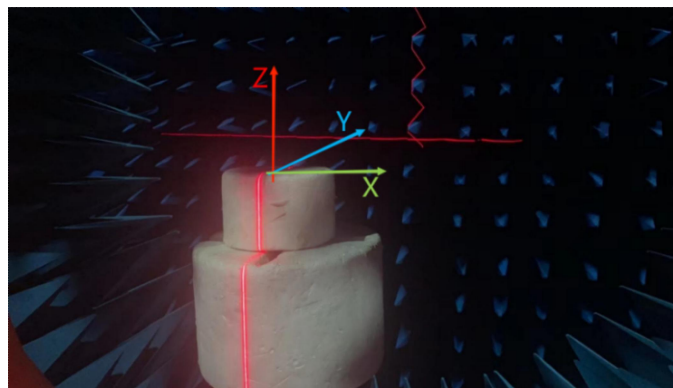


Antenna Test Data Report

1、Overall antenna assembly and environmental testing diagram



testing environment



2、 Passive efficiency

WIFI 1

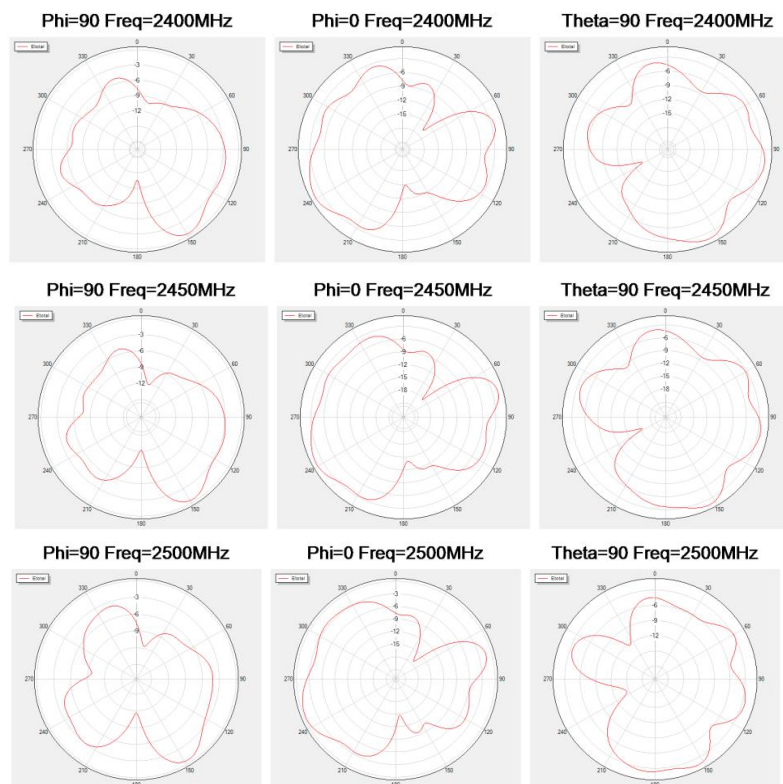
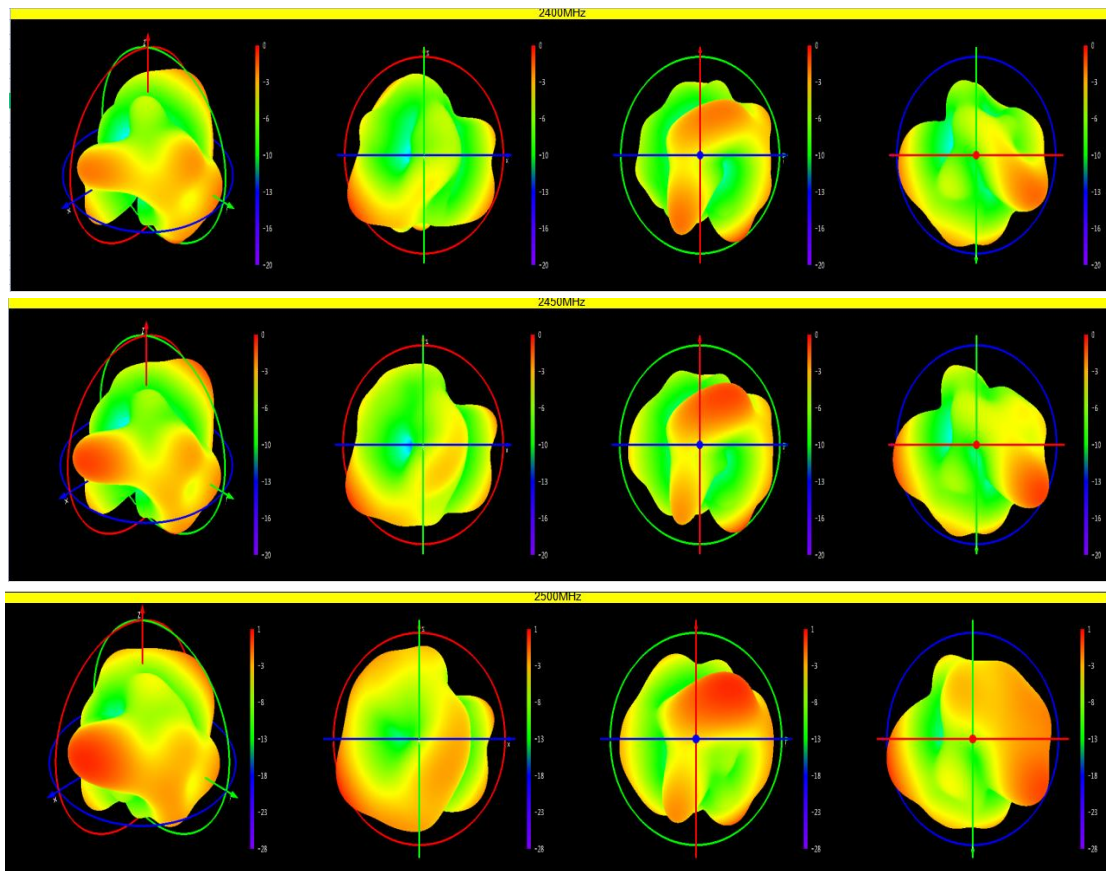
Gain&Efficiency 增益、效率		
frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率(%)
2400	-0.22	36.98
2410	-0.22	36.98
2420	-0.23	37.28
2430	-0.24	37.58
2440	-0.15	38.47
2450	-0.13	39.5
2460	0.04	36.12
2470	0.18	36.83
2480	0.33	37.42
2490	0.53	37.77
2500	0.57	36.27

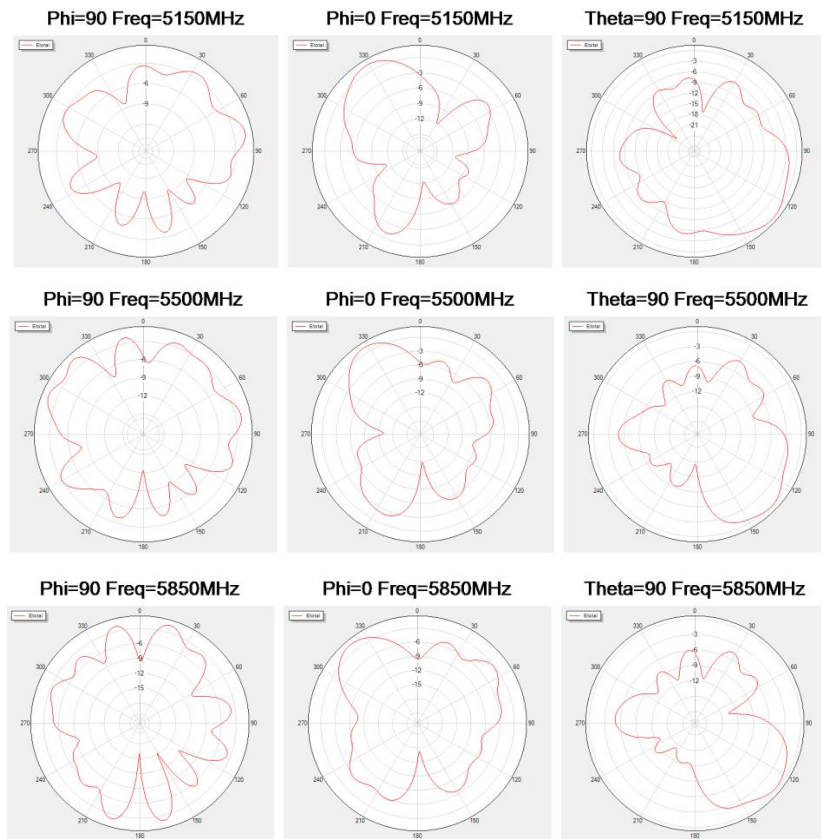
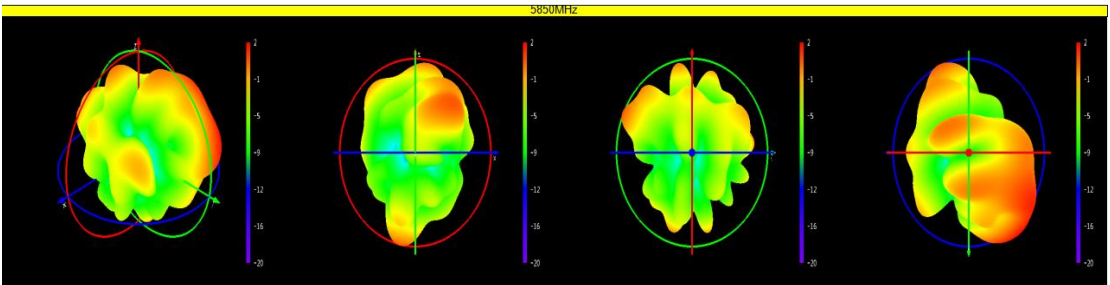
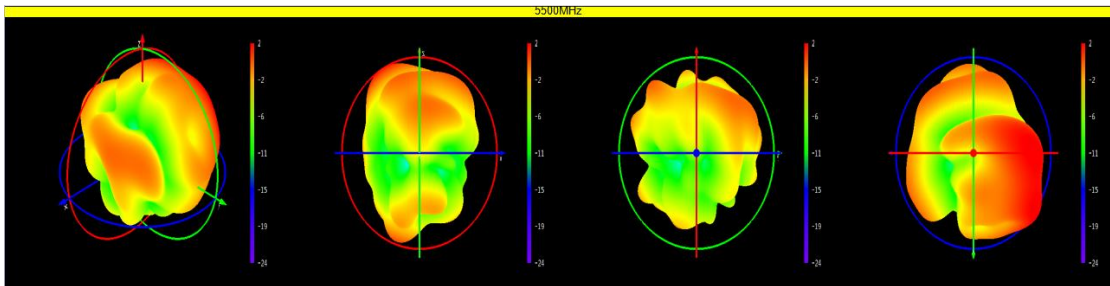
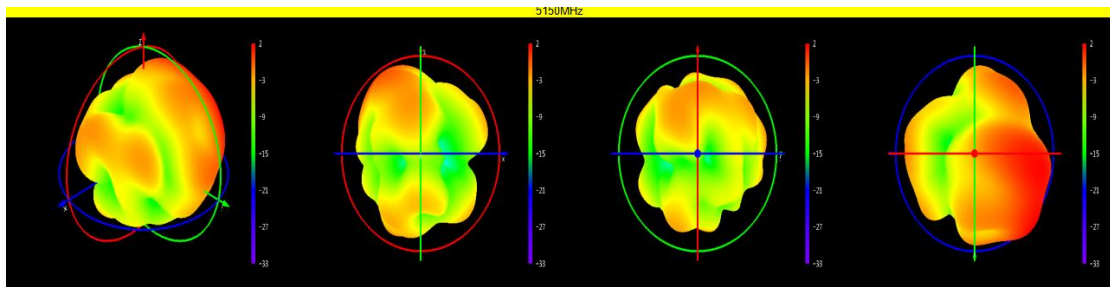
Gain&Efficiency 增益、效率		
frequency 频率(MHz)	gain 增益 (dBi)	efficiency 效率(%)
5150	1.97	44.43
5175	1.87	45.62
5200	1.91	46.07
5225	1.84	46.02
5250	1.83	45.81
5275	1.77	44.77
5300	1.77	44.38
5325	1.68	43.43
5350	1.71	43.79
5375	1.82	44.85
5400	1.91	46.36
5425	1.9	47.55
5450	1.83	48.13
5475	1.75	48.2
5500	1.51	46.62
5525	1.37	45.99
5550	1.34	45.46
5575	1.44	46.09
5600	1.47	46.08
5625	1.61	47
5650	1.67	47.44
5675	1.7	47.95
5700	1.7	47.5
5725	1.71	47.09
5750	1.67	46.79
5775	1.73	47.12
5800	1.59	45.21
5825	1.49	44.84
5850	1.04	40.65

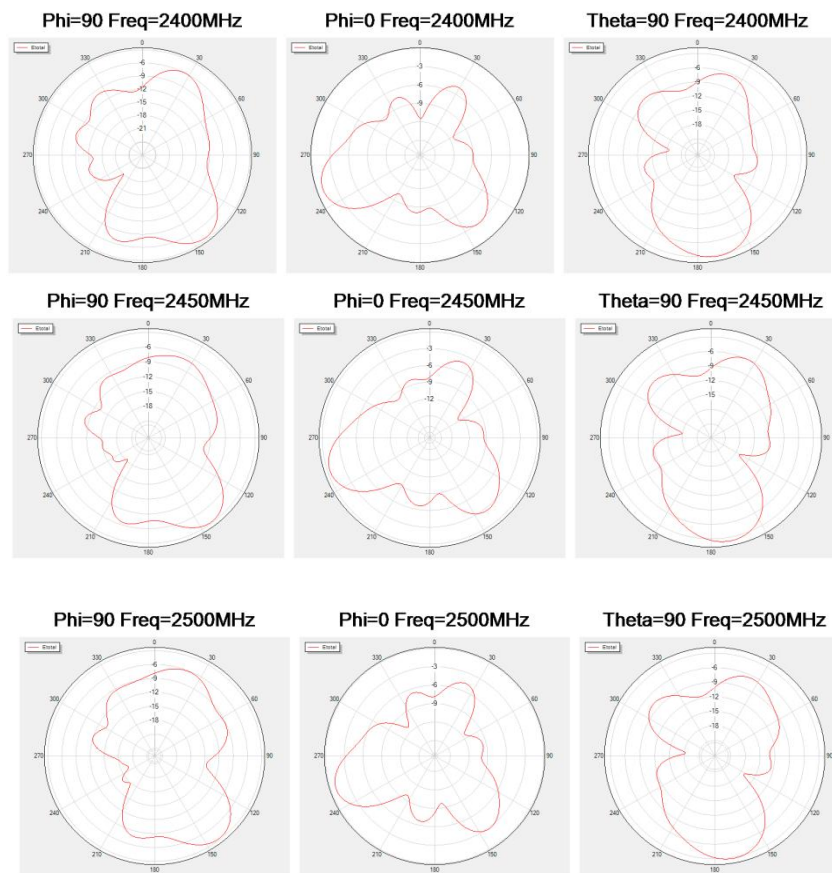
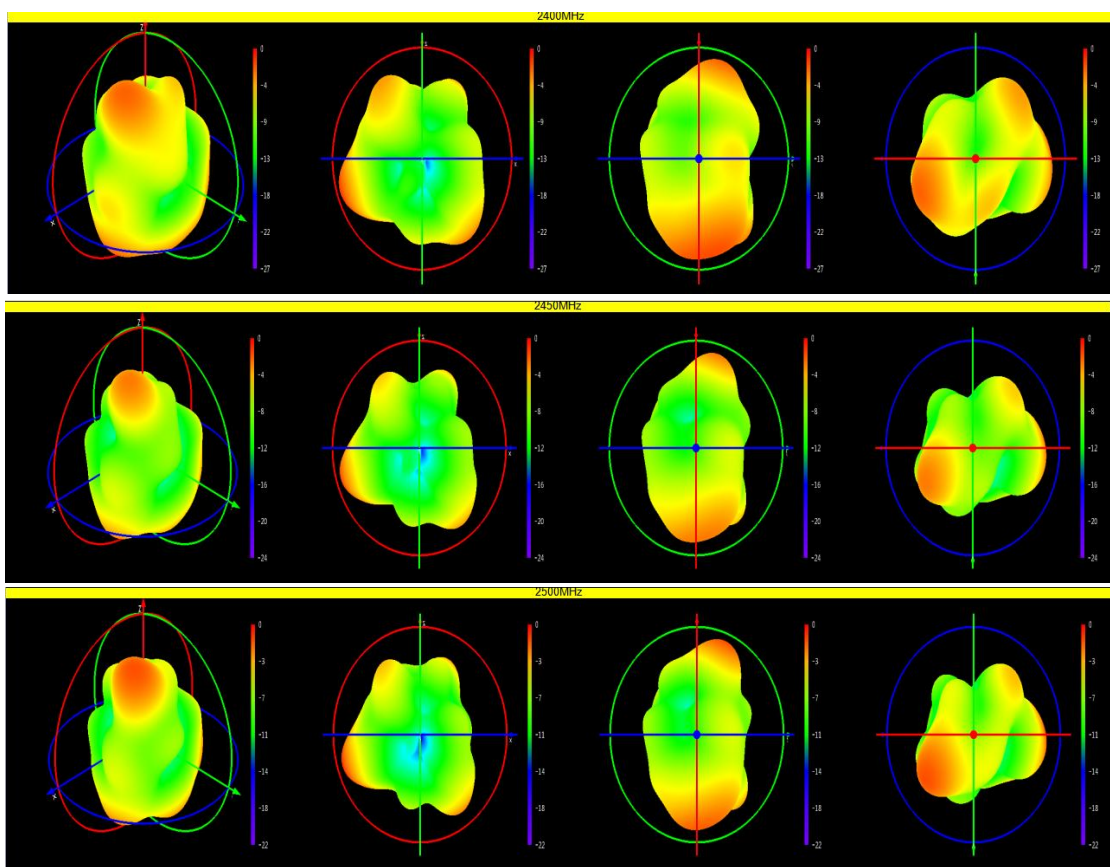
Gain&Efficiency 增益、效率		
frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率(%)
2400	-0.54	34.62
2410	-0.64	34.17
2420	-0.64	34.18
2430	-0.56	34.38
2440	-0.44	34.85
2450	-0.32	35.39
2460	-0.13	36.18
2470	-0.02	36.49
2480	-0.09	36.22
2490	-0.11	36.03
2500	-0.51	34.42

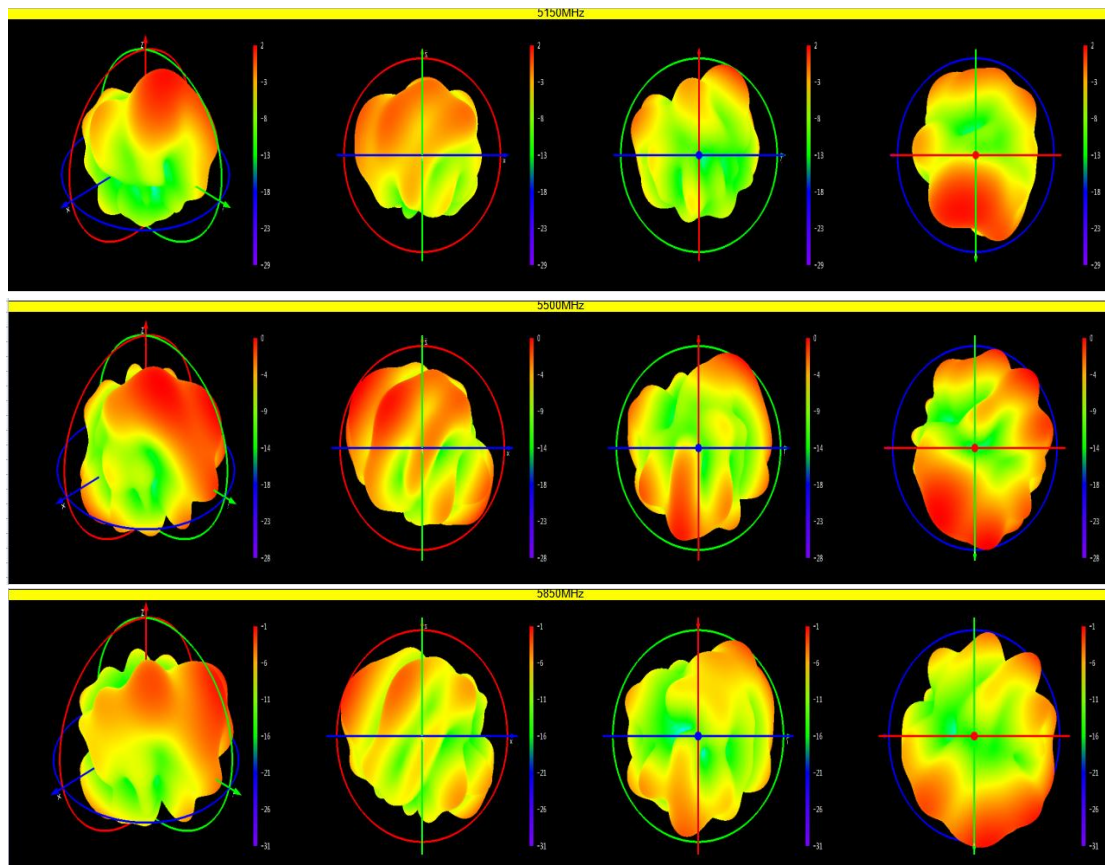
Gain&Efficiency 增益、效率		
frequency 频率(MHz)	gain 增益 (dBi)	efficiency 效率(%)
5150	1.61	44.2
5175	1.49	44.18
5200	1.4	45.68
5225	1.26	45.75
5250	1.1	44.95
5275	0.67	42.81
5300	0.29	41.51
5325	-0.1	40.53
5350	-0.38	40.66
5375	-0.49	41.76
5400	-0.4	43.8
5425	-0.38	45.48
5450	-0.42	46.2
5475	-0.47	46.26
5500	-0.66	45.2
5525	-0.7	44.97
5550	-0.69	44.81
5575	-0.56	45.51
5600	-0.54	45.63
5625	-0.5	45.85
5650	-0.57	45.59
5675	-0.54	46
5700	-0.57	45.81
5725	-0.6	45.47
5750	-0.56	45.5
5775	-0.44	45.75
5800	-0.67	43.66
5825	-0.75	42.62
5850	-1.47	40.11

3、 Antenna 3D and directional pattern

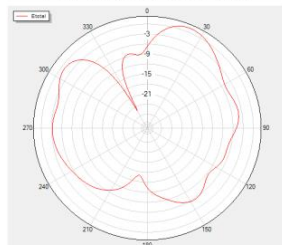




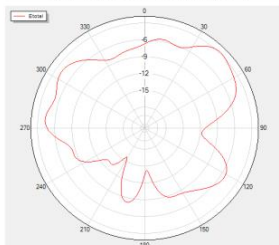




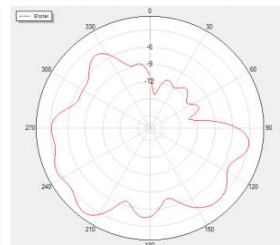
Phi=90 Freq=5150MHz



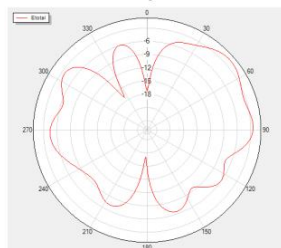
Phi=0 Freq=5150MHz



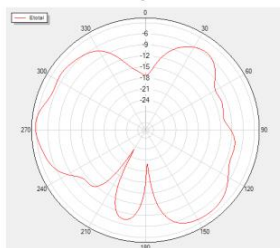
Theta=90 Freq=5150MHz



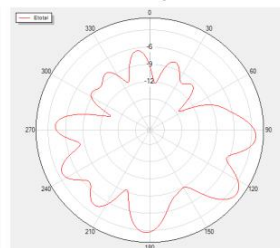
Phi=90 Freq=5500MHz



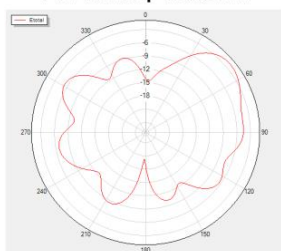
Phi=0 Freq=5500MHz



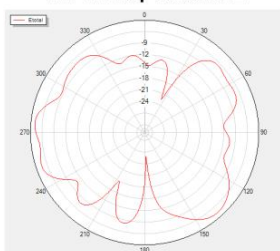
Theta=90 Freq=5500MHz



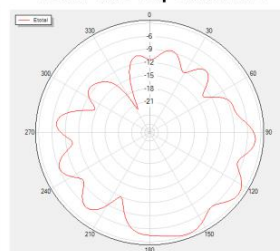
Phi=90 Freq=5850MHz



Phi=0 Freq=5850MHz



Theta=90 Freq=5850MHz



4、 Active OTA darkroom test data

A-mode

Test	Wifi 5G TRP				Test	Wifi 5G TIS		
CH	36	149	165		CH	36	149	165
Frequency (MHz)	5180	5745	5825		Frequency (MHz)	5180	5745	5825
TRP(dBm)	12.13	16.56	13.43		TIS(dBm)	-75.99	-70.79	-70.17

B-mode

Test	Wifi 2.4G TRP				Test	Wifi 2.4G TIS		
CH	1	6	13		CH	1	6	13
Frequency (MHz)	2412	2437	2472		Frequency (MHz)	2412	2437	2472
TRP(dBm)	10.97	11.34	13.38		TIS(dBm)	-66.32	-67.26	-67.07

Shenzhen Everything Connected Communication Co., Ltd

2023.6.15