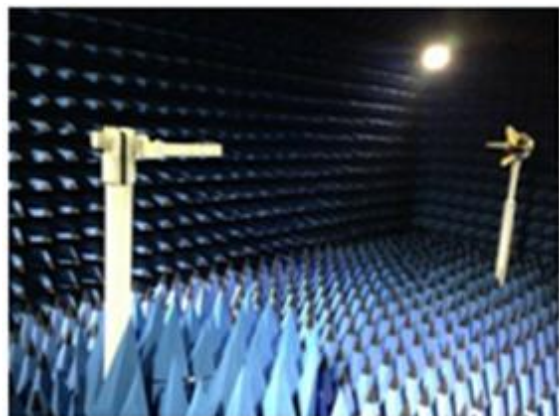


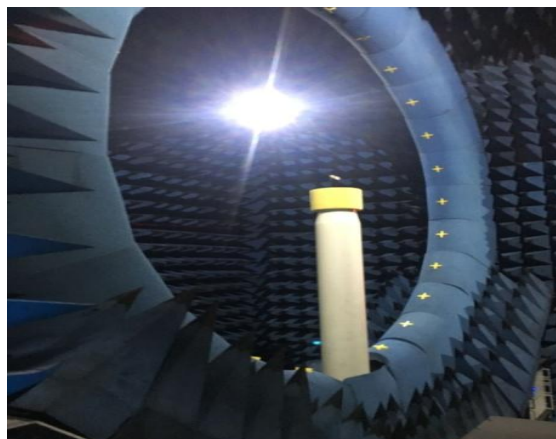


ONE PLUS ONE
Wireless Communication

测试设备



ETS 暗室



SATIMO 暗室



人头手模



8820C 综测仪



E5071B 网络分析仪

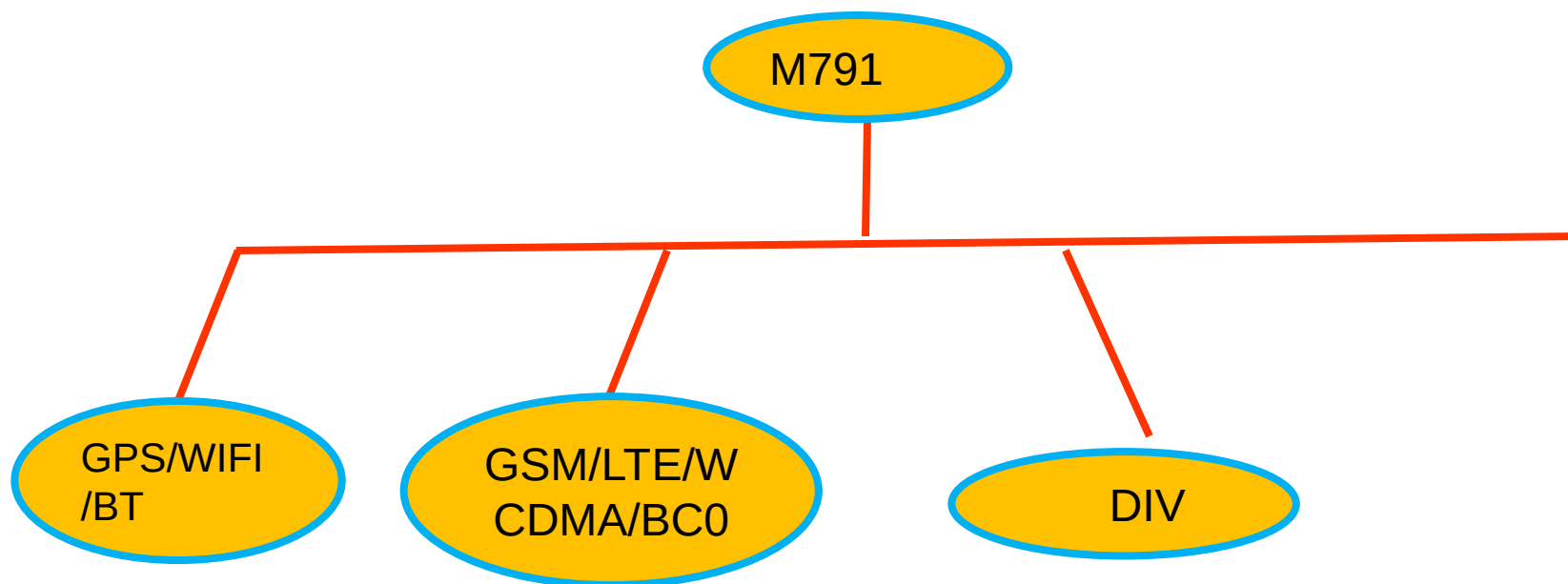


CMW 500 综测仪

测试系统	测试环境	有源测试	无源测试
SATIMO ETS	温度: $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 湿度: $50\% \pm 15\%$	2G/3G/4G/WIFI/BT	600MHZ-6GHZ



项目 说明



天线方式：FPC



项目记录



版本	时间	内容描述
V1	20230509	测试

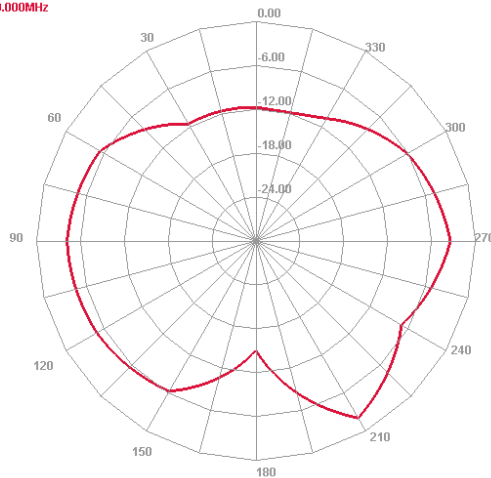


主天线效率方向图

Passive Test For 820-960			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	29.64	-5.28	-2.04
830	31.21	-5.06	-1.92
840	34.54	-4.62	-2.35
850	34.35	-4.64	-2.08
860	36.63	-4.36	-2.21
870	35.72	-4.47	-2.24
880	36.61	-4.36	-1.85
890	36.35	-4.4	-1.57
900	36.86	-4.33	-2.04
910	38.97	-4.09	-1.33
920	38.97	-4.09	-1.53
930	40	-3.98	-1.59
940	41.48	-3.82	-1.96
950	45.23	-3.45	-2.49
960	42.44	-3.72	-1.62

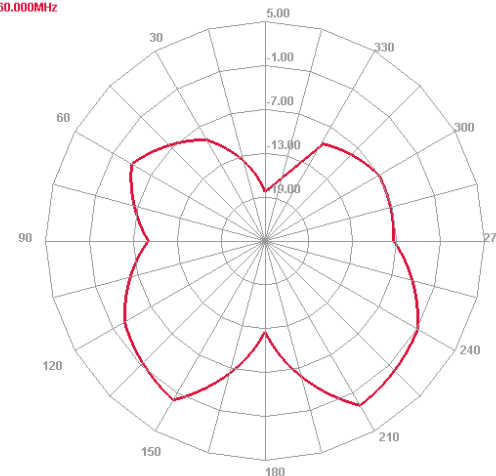
Phi = 45

820.000MHz



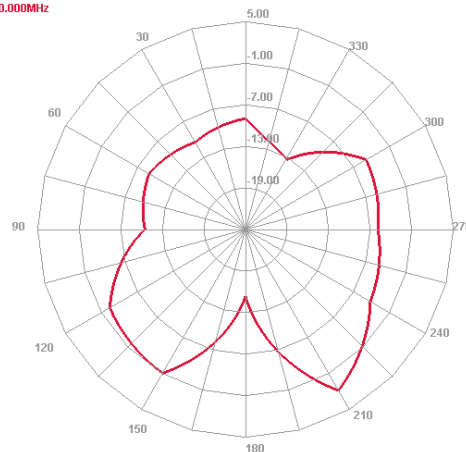
Phi = 45

960.000MHz



Phi = 45

880.000MHz





ONE PLUS ONE

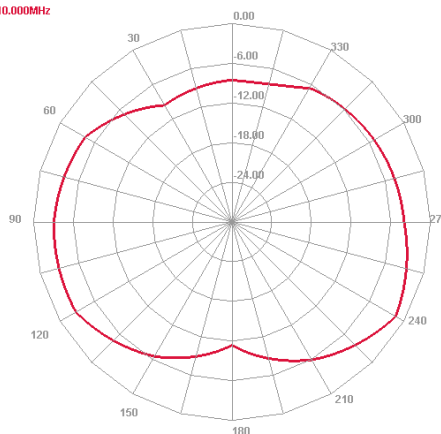
Wireless Comm

Passive Test For 1700-1900

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	42.16	-3.75	-0.98
1710	38.74	-4.12	-1.42
1720	36.44	-4.38	-1.79
1730	33.41	-4.76	-2.08
1740	40.02	-3.98	-1.21
1750	42.78	-3.69	-0.75
1760	41.06	-3.87	-0.65
1770	38.05	-4.2	-0.69
1780	37.23	-4.29	-0.53
1790	36.46	-4.38	-0.41
1800	33.54	-4.74	-0.64
1810	36.34	-4.4	-0.24
1820	32.31	-4.91	-0.72
1830	35.08	-4.55	-0.31
1840	33.73	-4.72	-0.45
1850	42.62	-3.7	0.64
1860	37.12	-4.3	0.12
1870	41.51	-3.82	0.7
1880	36.2	-4.41	0.07
1890	43.95	-3.57	0.86
1900	38.2	-4.18	0.16
1910	45.77	-3.39	0.81
1920	37.06	-4.31	-0.19
1930	40	-3.98	0.22
1940	32.84	-4.84	-0.59
1950	42.28	-3.74	0.53
1960	38.94	-4.1	0.15
1970	44.4	-3.53	0.71
1980	41.37	-3.83	0.17
1990	51.01	-2.92	0.94

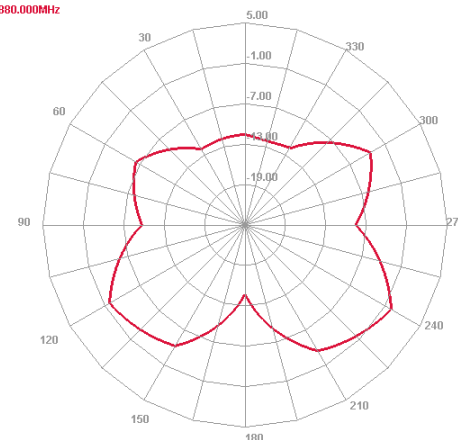
Phi = 45

1710.000MHz



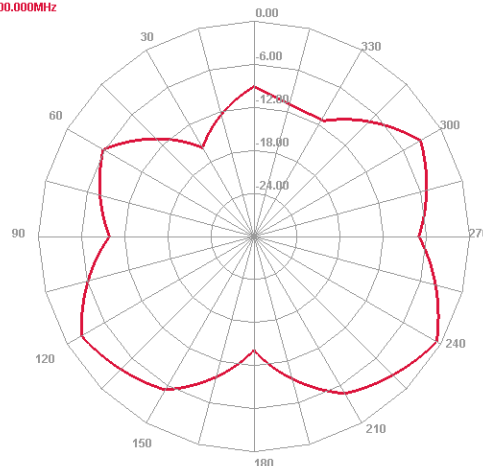
Phi = 45

1880.000MHz



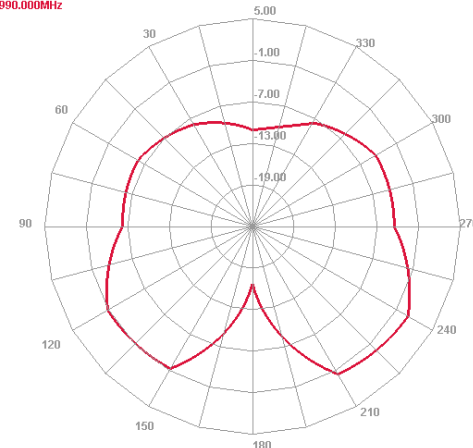
Phi = 45

1800.000MHz



Phi = 45

1990.000MHz





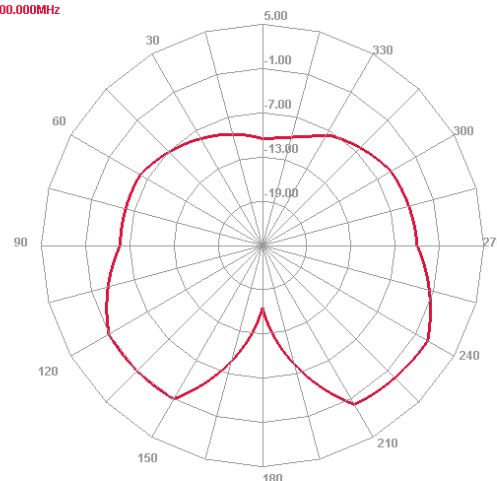
ONE PLUS ONE

Wireless Communication Technology Co. Ltd.

Passive Test For 2000-2300			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2000	51.99	-2.84	0.86
2010	58.61	-2.32	1.24
2020	58.81	-2.31	1.15
2030	61.82	-2.09	1.33
2040	59.19	-2.28	1.12
2050	58.42	-2.33	1.27
2060	58.53	-2.33	1.56
2070	54.74	-2.62	1.52
2080	55.72	-2.54	2.25
2090	53.17	-2.74	1.05
2100	58.45	-2.33	1.75
2110	52.86	-2.77	1.64
2120	49.5	-3.05	0.59
2130	52.69	-2.78	1.06
2140	46.5	-3.33	1.69
2150	46.5	-3.33	1.73
2160	40.35	-3.94	0.81
2170	41.67	-3.8	1.28
2180	41.41	-3.83	1.35
2190	45.95	-3.38	1.88
2200	45.14	-3.45	2.06
2210	46.44	-3.33	1.23
2220	45.13	-3.46	1.27
2230	48.3	-3.16	1.69
2240	45.02	-3.47	1.49
2250	43.97	-3.57	1.46
2260	39.09	-4.08	0.96
2270	41.78	-3.79	1.22
2280	38.15	-4.19	2.72
2290	42.96	-3.67	2.15
2300	43.37	-3.63	1.07

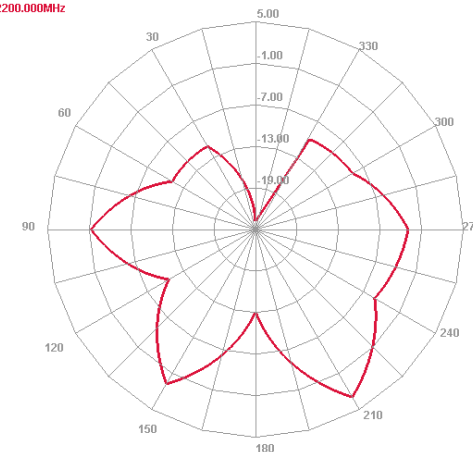
Phi = 45

2000.000MHz



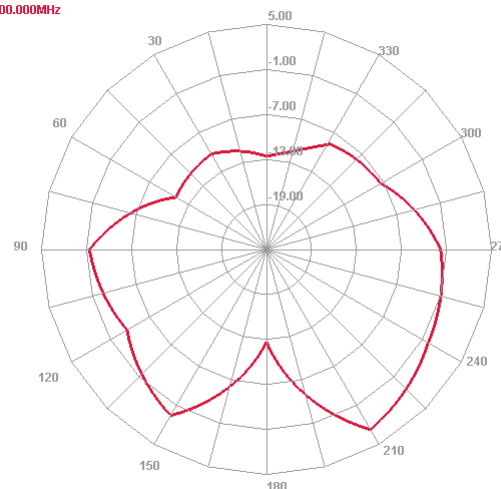
Phi = 45

2200.000MHz



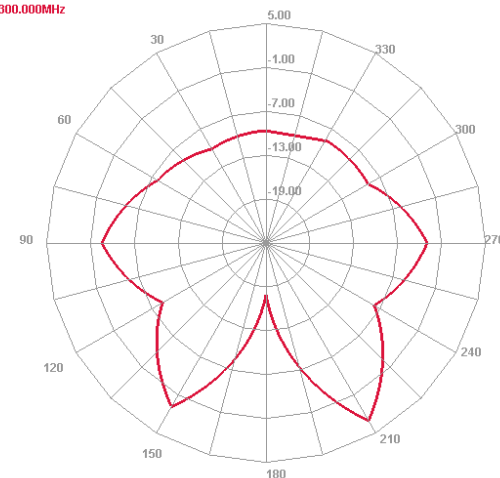
Phi = 45

2100.000MHz



Phi = 45

2300.000MHz





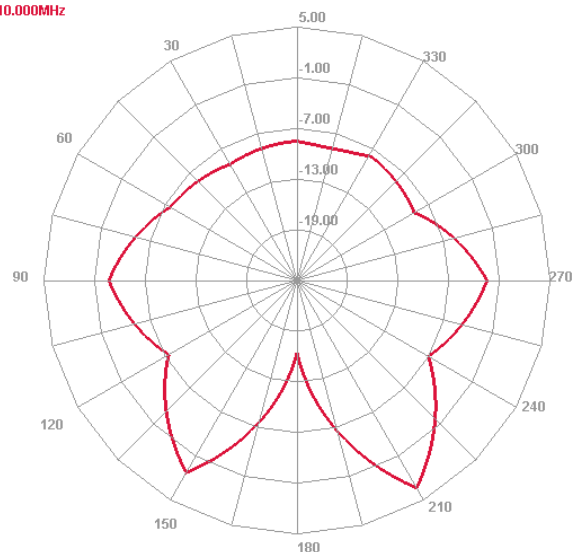
ONE PLUS ONE

Wireless Communication

Passive Test For 2310-2690			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2310	46.97	-3.28	1.37
2320	42.11	-3.76	0.92
2330	45.49	-3.42	1.32
2340	41.29	-3.84	2.86
2350	41.68	-3.8	1.85
2360	40.51	-3.92	1.67
2370	41.35	-3.84	0.47
2380	42.96	-3.67	1.27
2390	49.46	-3.06	2.51
2400	48.24	-3.17	1.92
2410	49.37	-3.07	1.56
2420	51.39	-2.89	1.28
2430	51.16	-2.91	0.87
2440	51.69	-2.87	0.54
2450	55.54	-2.55	0.55
2460	52.06	-2.84	-0.1
2470	53.02	-2.76	-0.28
2480	54.19	-2.66	-0.16
2490	61.48	-2.11	0.61
2500	56.94	-2.45	0.52
2510	59.51	-2.25	0.86
2520	51.82	-2.86	0.36
2530	55.18	-2.58	0.63
2540	46.9	-3.29	-0.04
2550	50.87	-2.94	0.38
2560	43.11	-3.65	-0.3
2570	51.32	-2.9	0.7
2580	43.36	-3.63	0.29
2590	53.3	-2.73	1.47
2600	44.87	-3.48	0.99
2610	49.81	-3.03	1.6
2620	36.44	-4.38	0.4
2630	39.8	-4	0.84
2640	34.94	-4.57	0.33
2650	37.98	-4.2	0.82
2660	34.88	-4.57	0.46
2670	41.51	-3.82	1.11
2680	38.06	-4.2	0.62
2690	39.36	-4.05	0.59

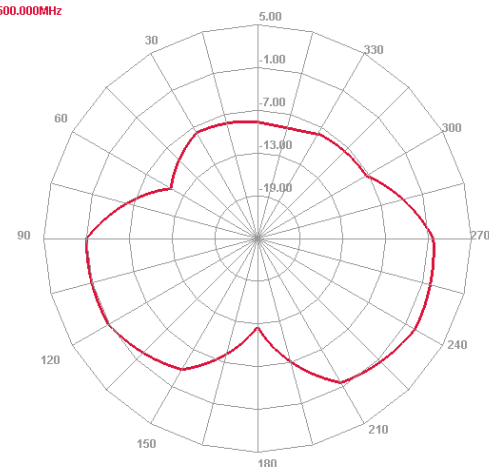
Phi = 45

2310.000MHz



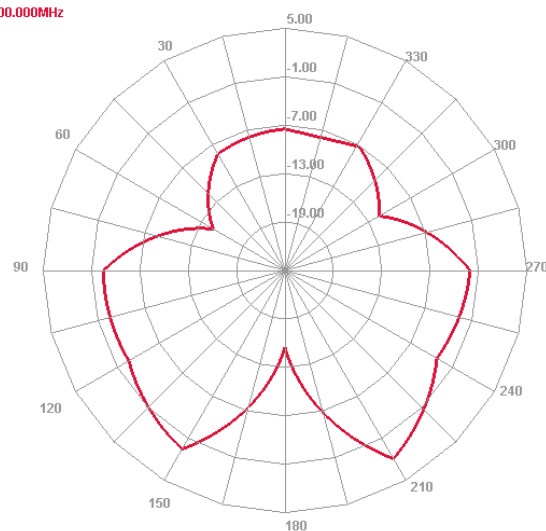
Phi = 45

2500.000MHz



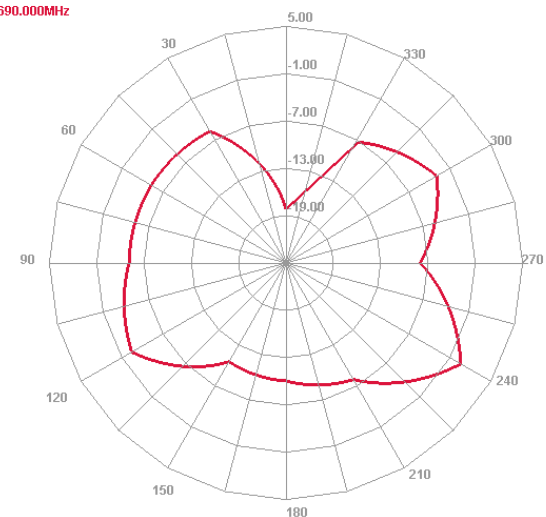
Phi = 45

2400.000MHz



Phi = 45

2690.000MHz



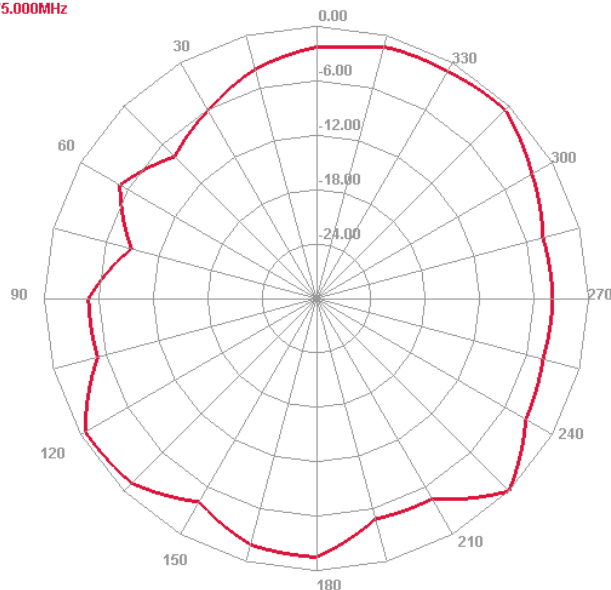


GPS效率方向图

Phi = 45

1575.000MHz

Passive Test For GPS			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1530	40.69	-3.9	0.01
1535	48.63	-3.13	0.64
1540	46.24	-3.35	0.26
1545	49.17	-3.08	0.35
1550	48.6	-3.13	0.15
1555	41.45	-3.82	-0.58
1560	48.75	-3.12	0.11
1565	47.93	-3.19	0.02
1570	43.22	-3.64	-0.43
1575	47.26	-3.25	0.02
1580	44.53	-3.51	-0.18
1585	43.32	-3.63	-0.3
1590	45.27	-3.44	-0.1



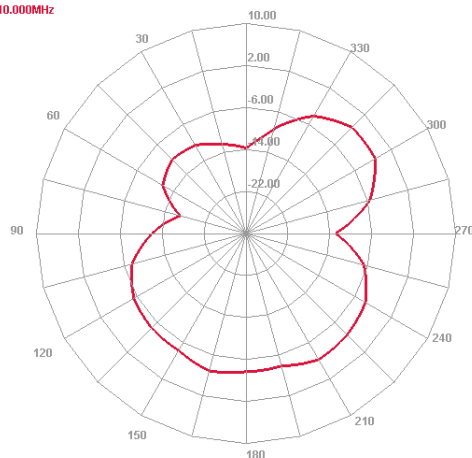


WIFI2.4G效率方向图

Passive Test For WIFI2G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.98	-3.01	1.32
2410	45.17	-3.45	1.07
2420	43.75	-3.59	0.96
2430	39.71	-4.01	0.83
2440	41.32	-3.84	0.53
2450	38.58	-4.14	0.39
2460	40.6	-3.91	0.46
2470	39.07	-4.08	0.42
2480	41.34	-3.84	0.57
2490	40.48	-3.93	0.56
2500	40.4	-3.94	0.51

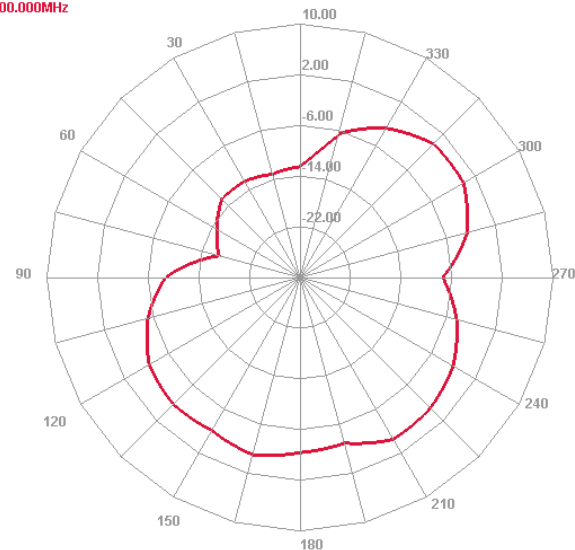
Horizontal

2410.000MHz



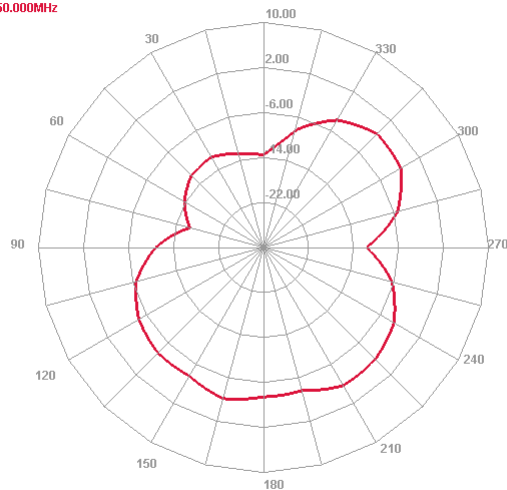
Horizontal

2500.000MHz



Horizontal

2450.000MHz

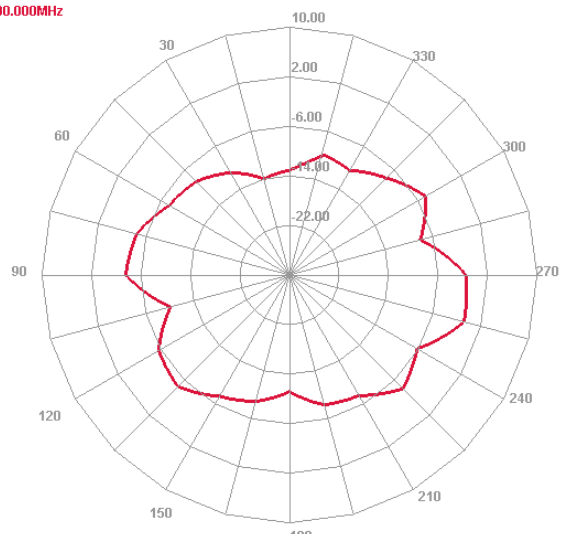




WIFI5G效率方向图

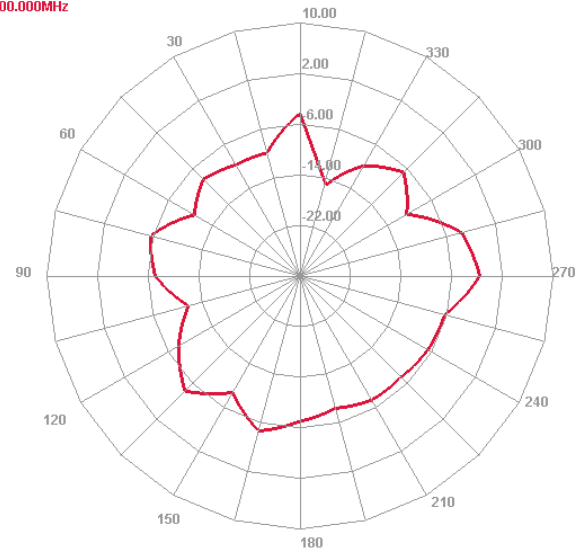
Horizontal

5100.000MHz



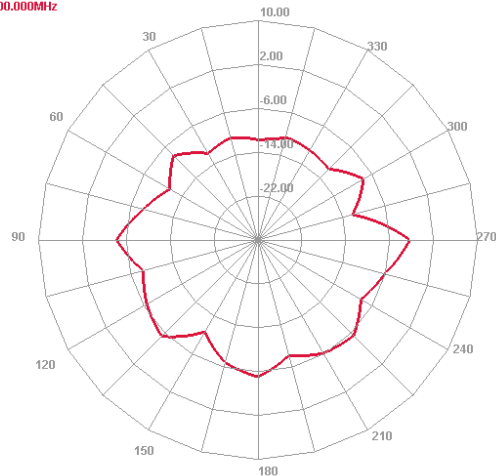
Horizontal

5800.000MHz



Horizontal

5500.000MHz



Passive Test For WIFI 5.8G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5000	31.63	-5	-0.98
5100	27.87	-5.55	-1.28
5200	31.88	-4.97	-0.86
5300	30.48	-5.16	-1.05
5400	32.72	-4.85	-0.74
5500	31.59	-5	-0.99
5600	30.23	-5.2	-1.08
5700	28.57	-5.44	-1.21
5800	28.46	-5.46	-1.23
5900	31.9	-4.96	-0.82



ONE PLUS ONE
Wireless Communication

Thanks