



东莞市同讯电子科技有限公司

Customer	元征
Project	CRT701
Antenna Revision	X/0
Product Description	FPC
Prepared by	LIDEWEN

Contact number : 15889421381

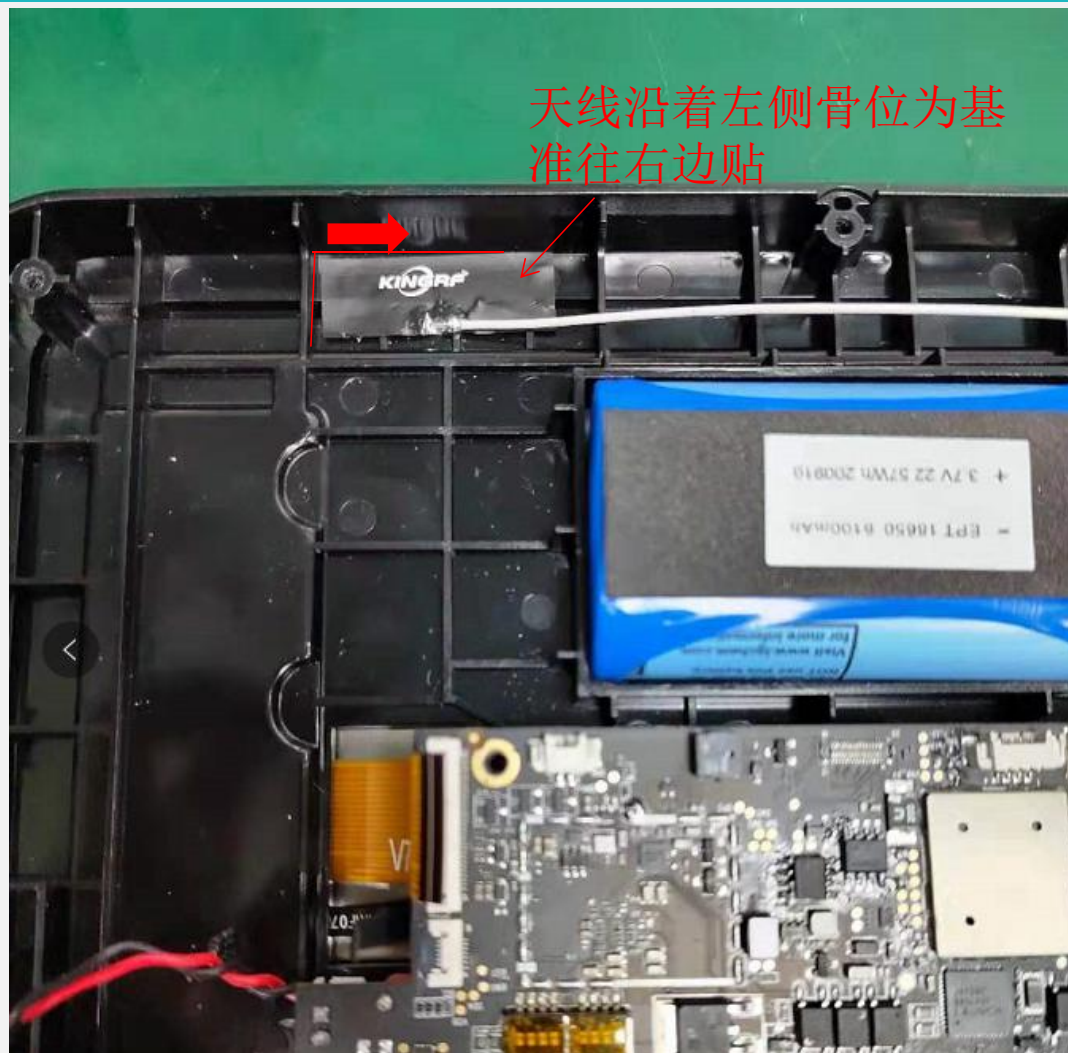
date : 2021.08.02

Content



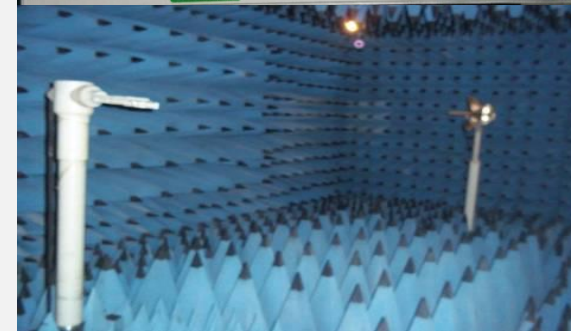
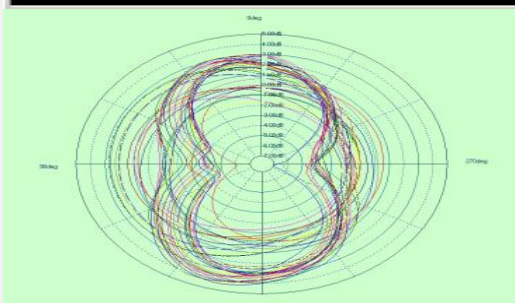
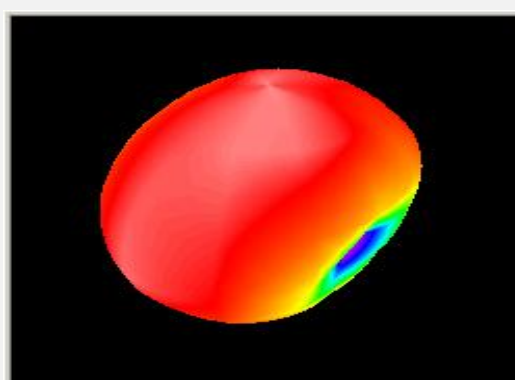
- 1: Test environment and antenna location
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 - 2.2 VSWR
 - 2.3 Gain & Efficiency
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1. Test scenario and antenna location



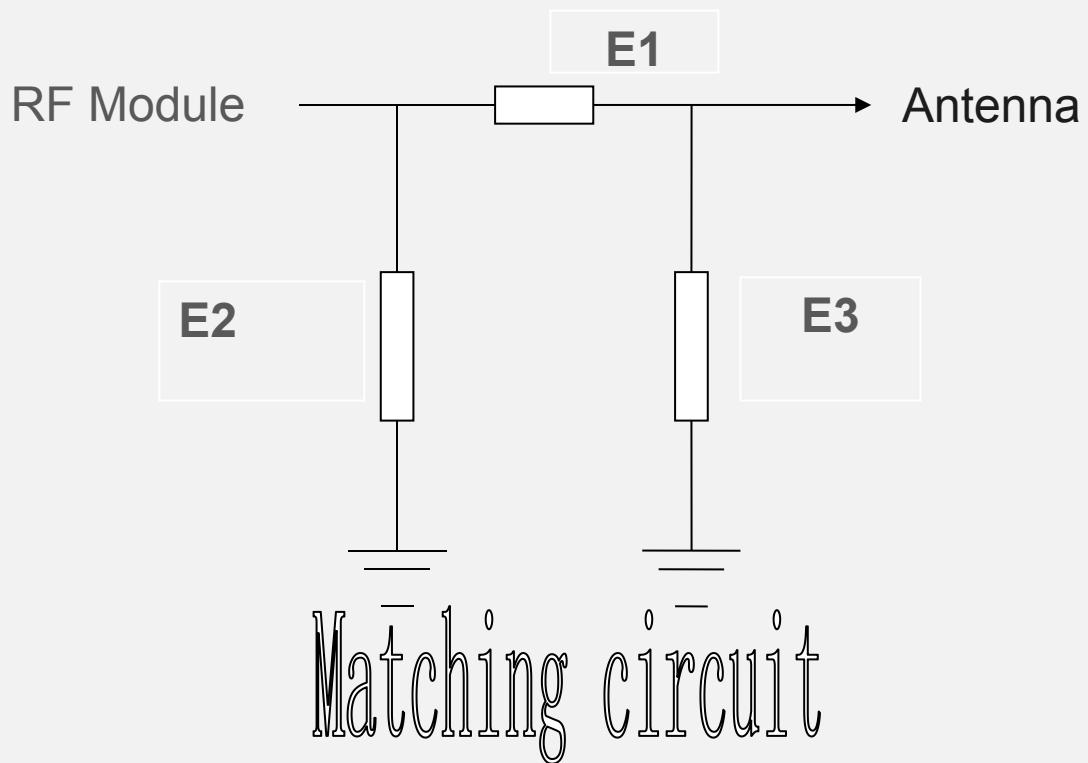
2.Test System

Sequence Number	Test Item	equipment
1. S parameter	VSWR	Agilent 5071C & Agilent 5062A
2. OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
3. Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

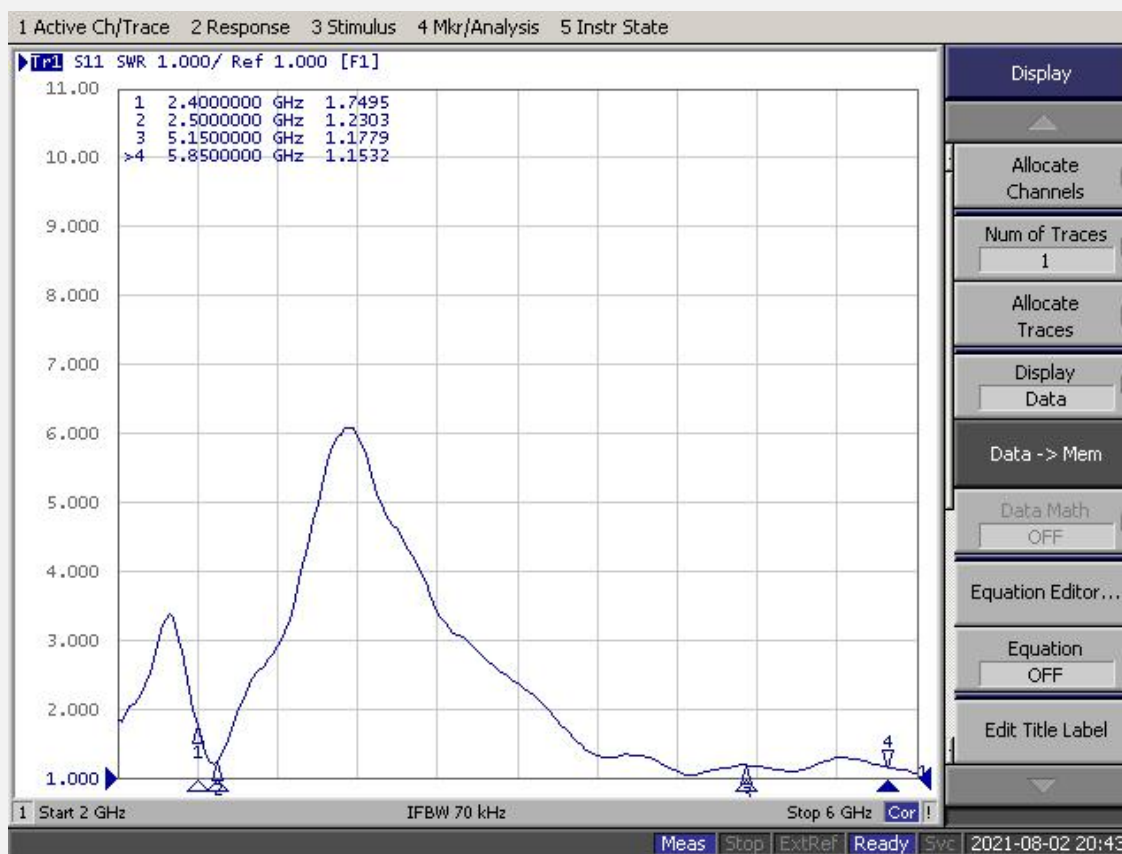


2.1.Antenna Matching Network

Element	Value
E1(0402)	0Ω
E2(0402)	NC
E3(0402)	NC
是否修改匹配	否



2.2.WIFI 2.4G VSWR



Frequency (MHz)	2400	2500	5150	5850
VSWR	1.74	1.23	1.17	1.15

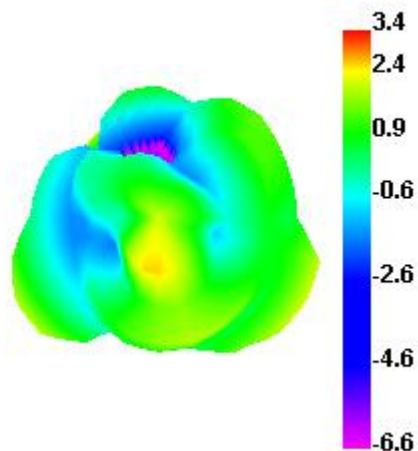
2.3. GAIN & Efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	73.82	-1.32	3.42
2410	65.81	-0.66	4.05
2420	80.09	-0.96	3.63
2430	80.03	-0.22	4.49
2440	71.49	-0.39	3.96
2450	71.7	-1.44	3.17
2460	75.79	-1.2	3.3
2470	69	-0.51	3.69
2480	78.02	-1.08	3.09
2490	75.41	-1.23	2.74
2500	74.59	-1.27	2.59

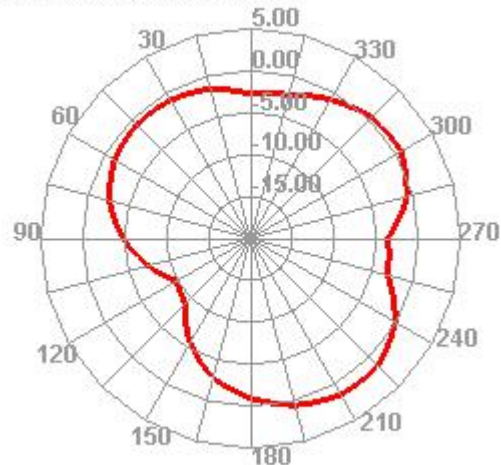
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	63.35	-1.98	4.19
5200	61.84	-2.09	4.63
5250	63.2	-1.99	5.15
5300	77.44	-1.11	5.36
5350	74.04	-1.31	5.19
5400	86.9	-0.61	5.06
5450	86.61	-0.62	5.65
5500	66.11	-1.8	5.58
5550	61.2	-2.13	5.3
5600	52.94	-2.76	4.86
5650	64.54	-1.9	5.57
5700	65.55	-1.83	5.53
5750	58.87	-4.1	4
5800	57.09	-2.43	5.1
5850	59.35	-2.27	5.22

2.4 3D Date

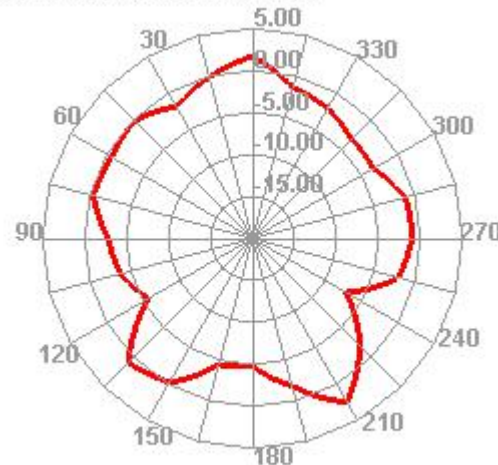
2400.000MHz



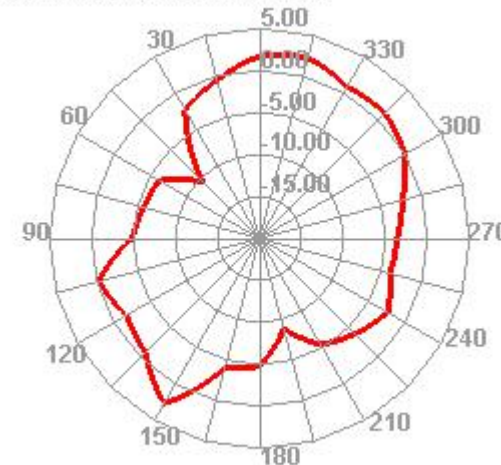
2400.000MHz H



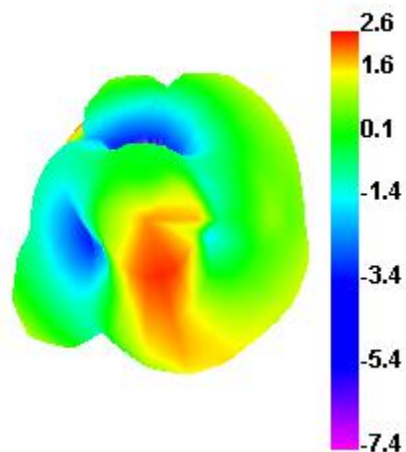
2400.000MHz E1



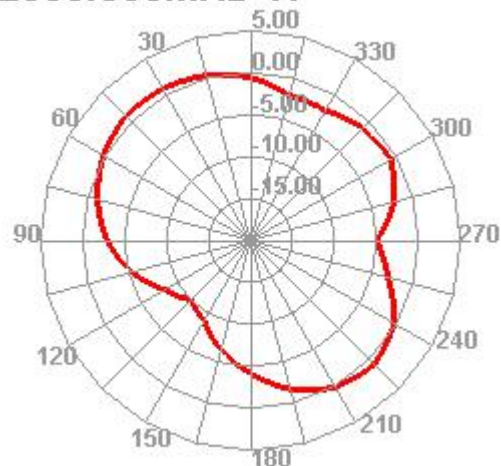
2400.000MHz E2



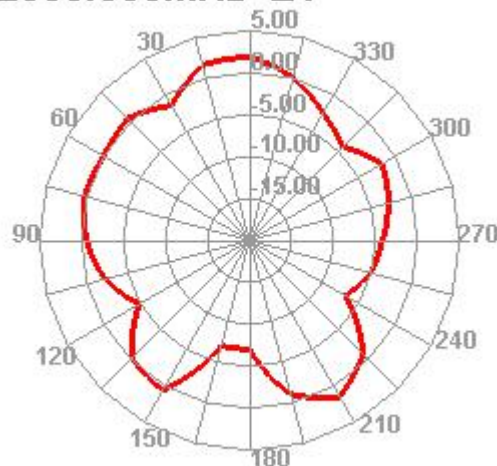
2500.000MHz



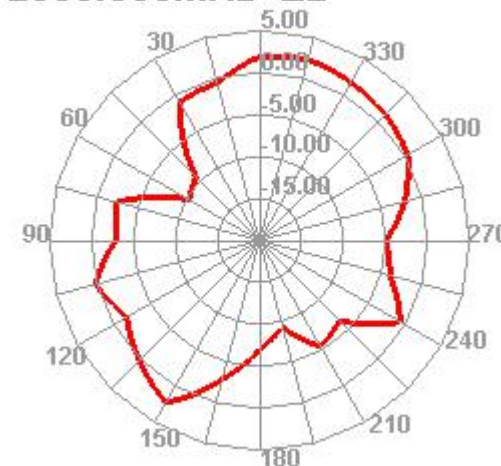
2500.000MHz H



2500.000MHz E1

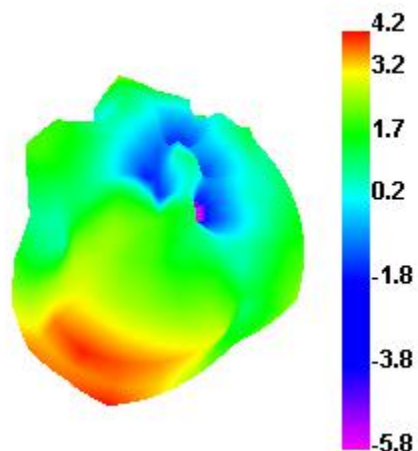


2500.000MHz E2

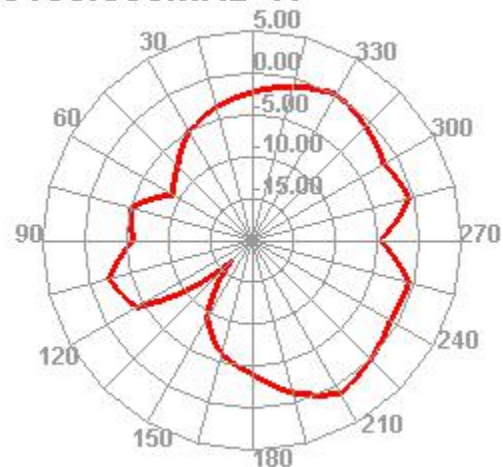


2.4 3D Date

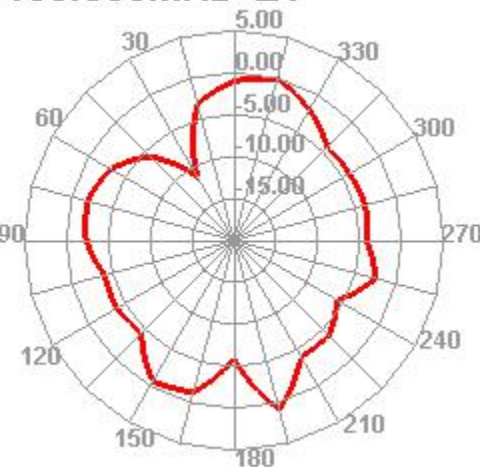
5150.000MHz



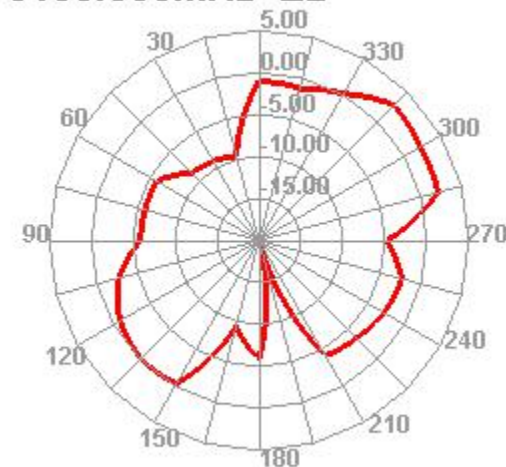
5150.000MHz H



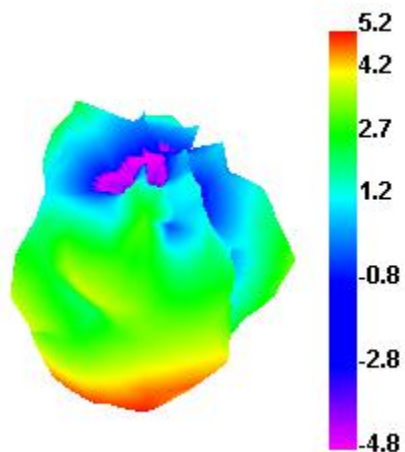
5150.000MHz E1



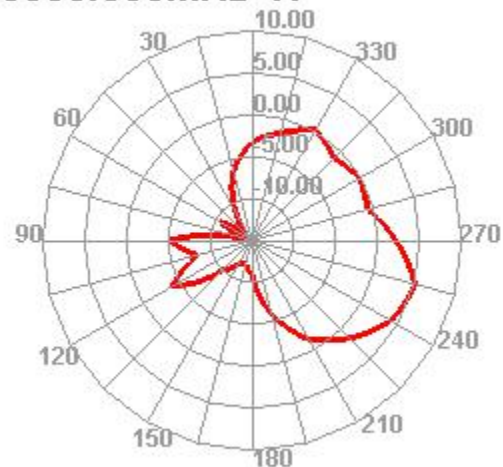
5150.000MHz E2



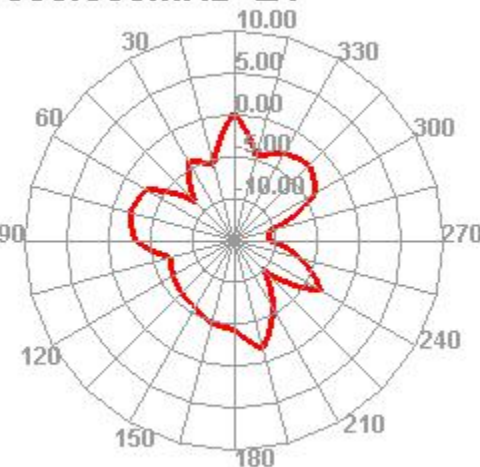
5850.000MHz



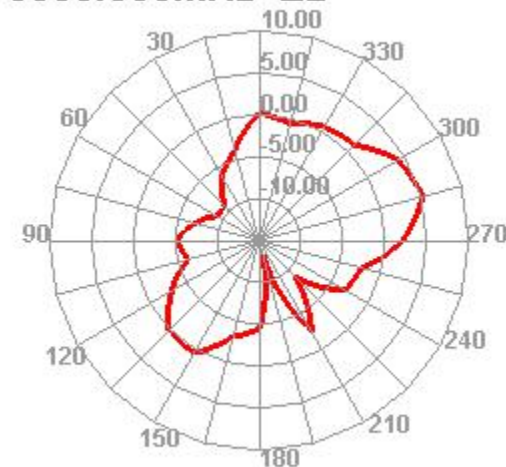
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



3. Conclusion

PCB主板端匹配电路未改动，天线无源驻波调试到2.0以下，在微波实验室测试效率增益时，测试效率和增益均满足要求。装机需注意天线贴的位置！如有其他问题电话联系，谢谢！