



东莞市同讯电子科技有限公司

Customer	SHENZHEN KINGBOLEN ELECTRONIC TECHNOLOGY.,LTD
Project	<b>diag 2</b>
Antenna Revision	X/0
Product Description	FPC
Prepared by	LIDEWEN

Contact number : 15889421381

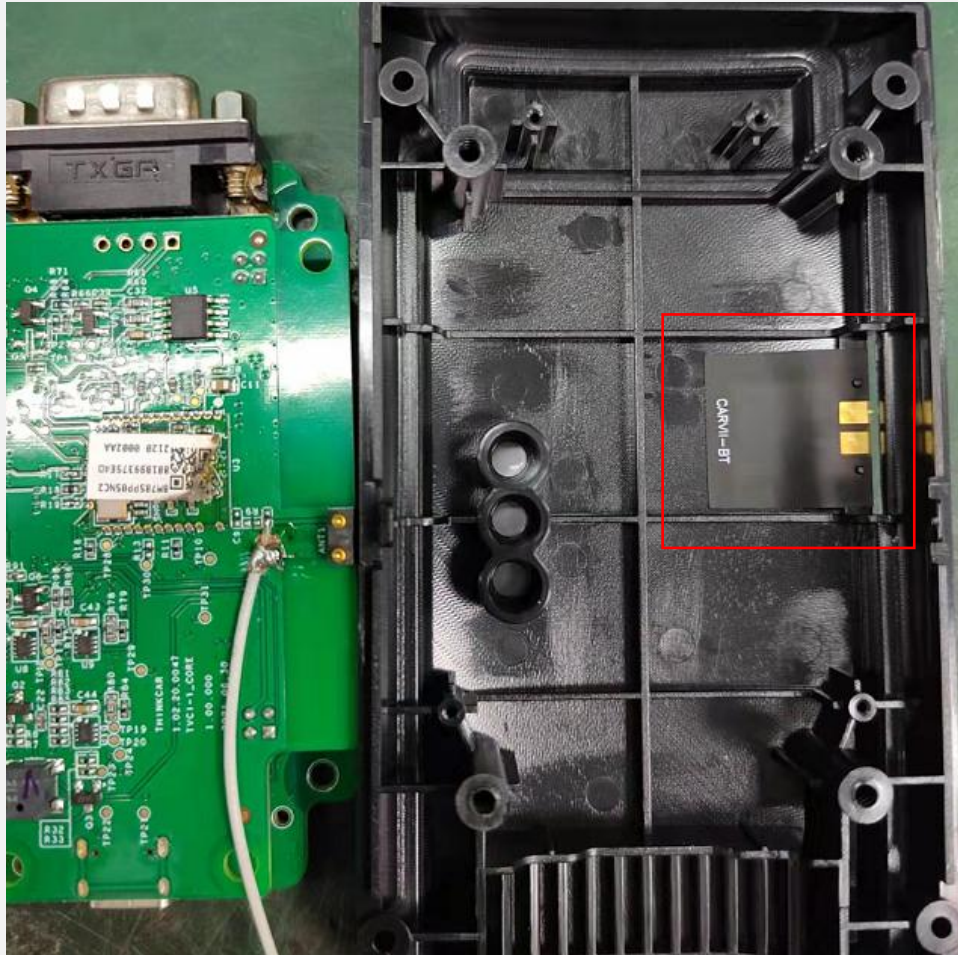
date : 2021.09.26

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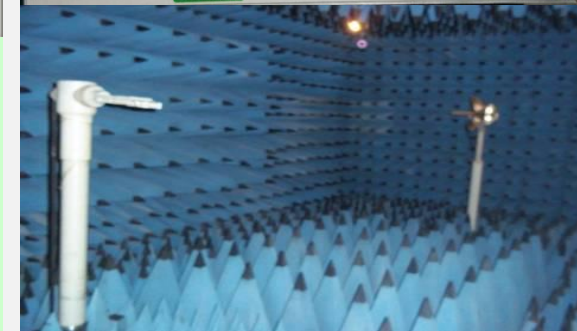
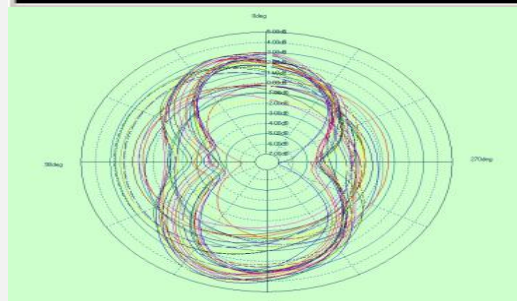
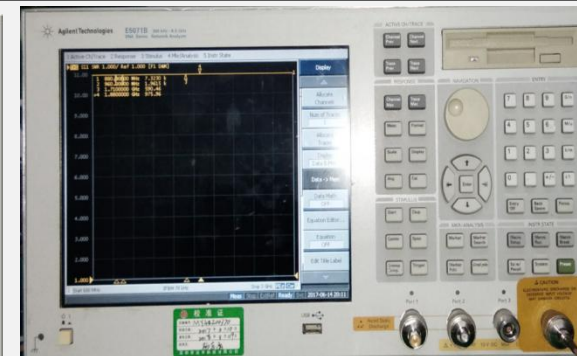
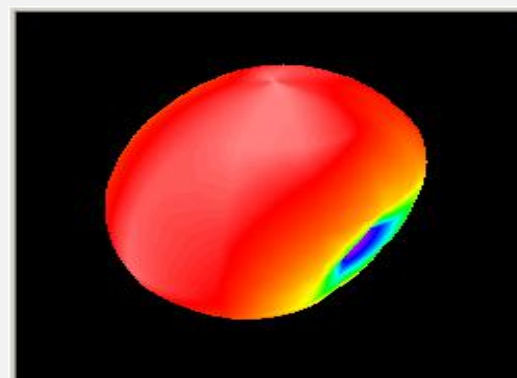
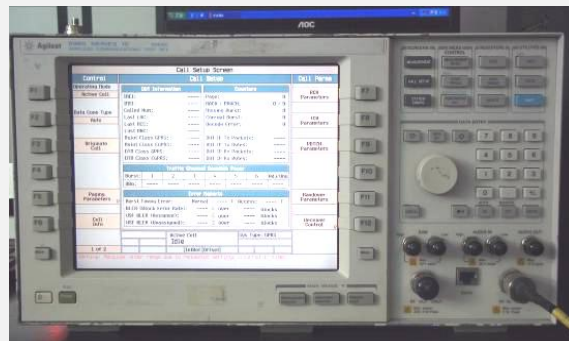
# 1. Test scenario and antenna location





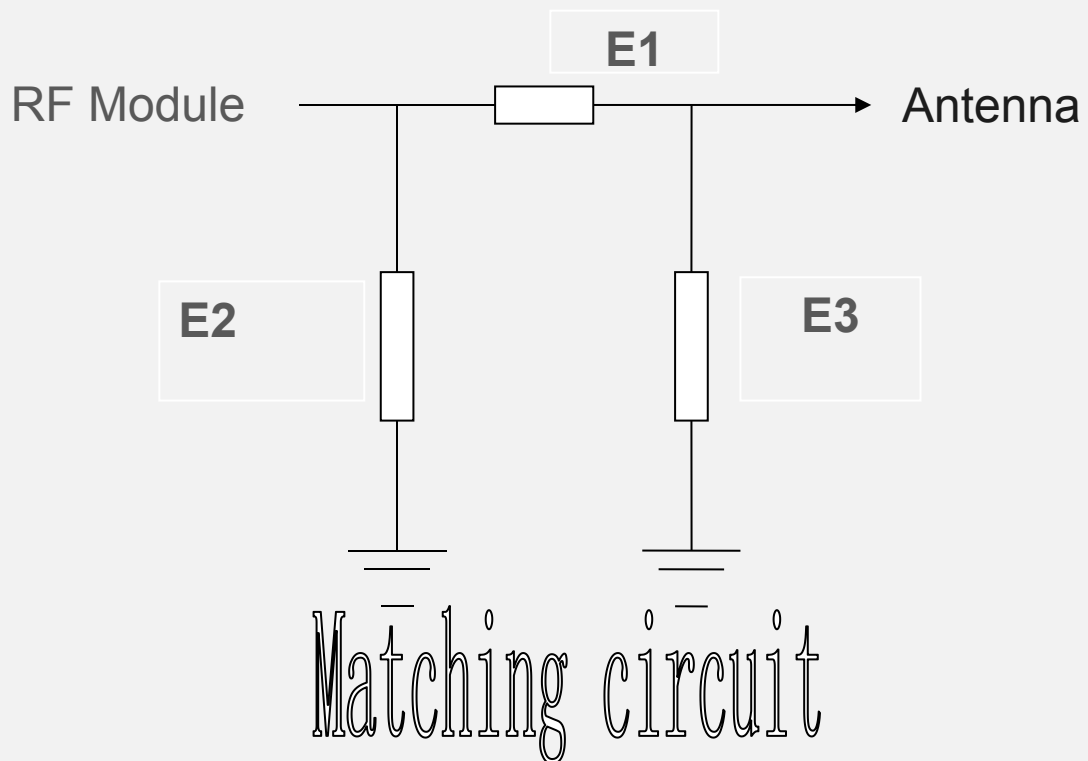
# 2. Test System

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

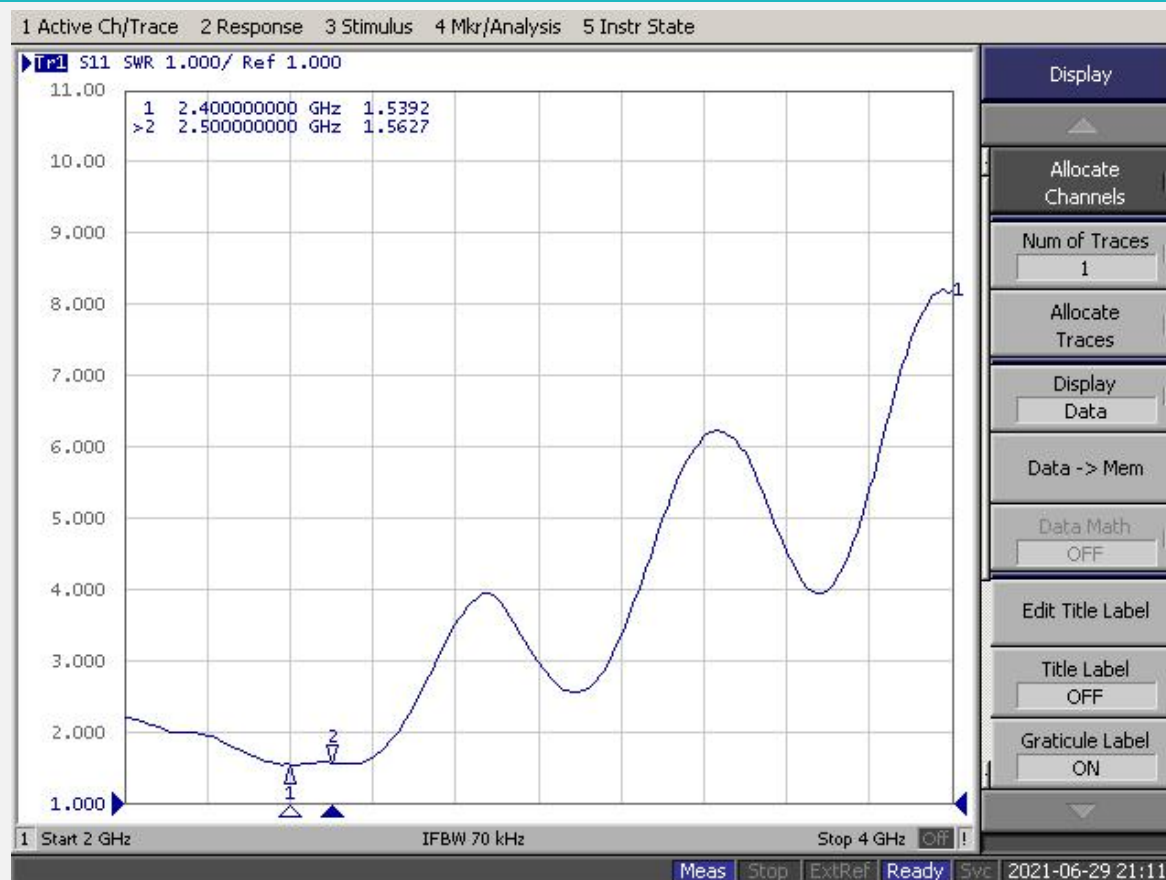


## 2.1. Antenna Matching Network

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



## 2.2. VSWR



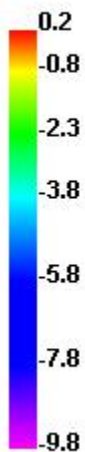
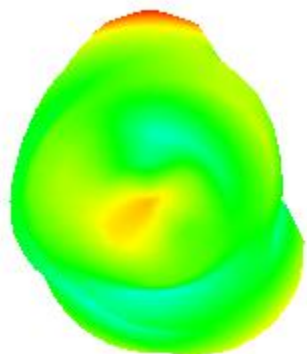
Frequency (MHz)	2400	2500
VSWR	1.53	1.56

## 2.3. GAIN & Efficiency

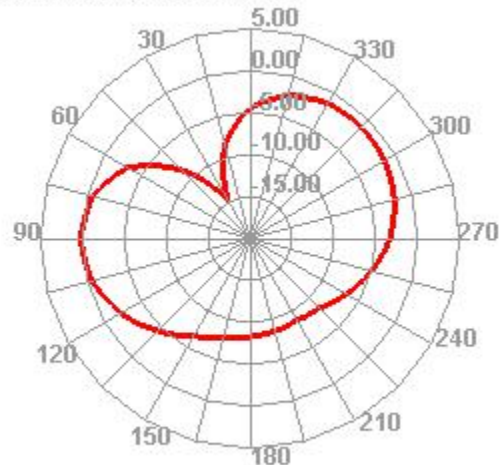
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	46.48	-3.33	0.18
2410	58.69	-2.31	1.43
2420	45.7	-3.4	0.25
2430	53.8	-2.69	1.22
2440	42.08	-3.37	0.53
2450	46.89	-3.29	0.77
2460	40.37	-3.94	0.3
2470	47.5	-3.23	1.03
2480	43.34	-4.05	0.25
2490	42.81	-3.68	0.55
2500	45.8	-3.46	0.89

# 2.4 3D Date

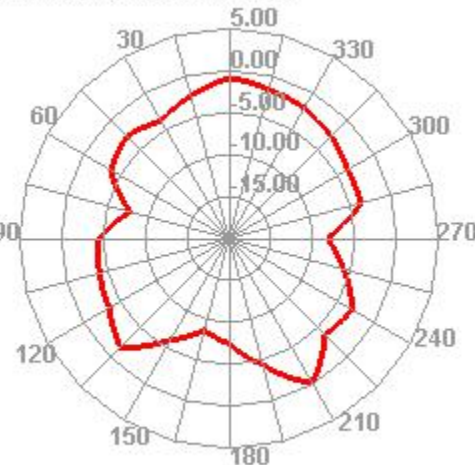
2400.000MHz



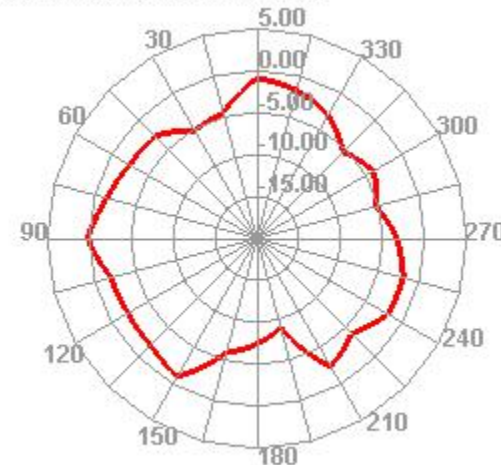
2400.000MHz H



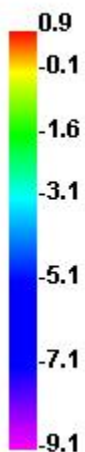
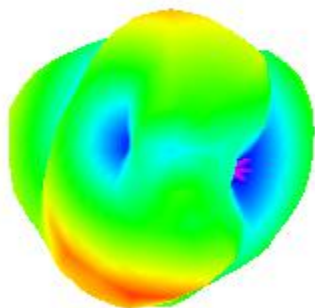
2400.000MHz E1



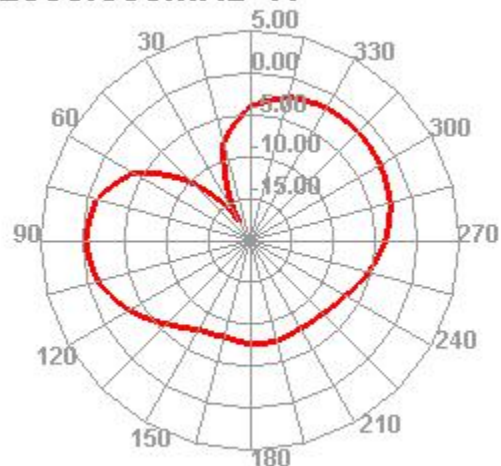
2400.000MHz E2



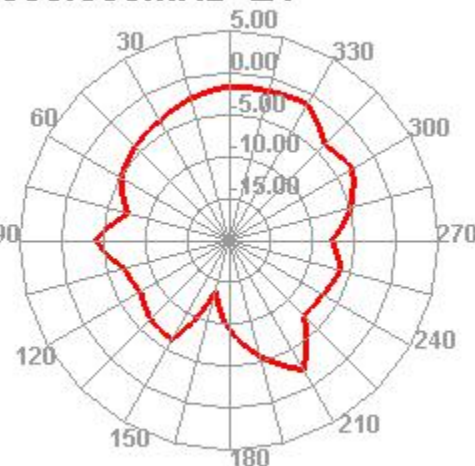
2500.000MHz



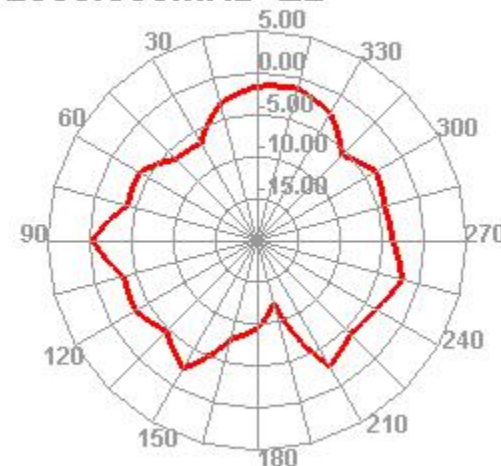
2500.000MHz H



2500.000MHz E1



2500.000MHz E2





## 3. Conclusion

PCB主板端匹配电路未改动，天线无源驻波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！