

Antenna Test Report



Customer	微星
Project	ND
Antenna Revision	A2
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Date:	2018. 5. 12

Purpose

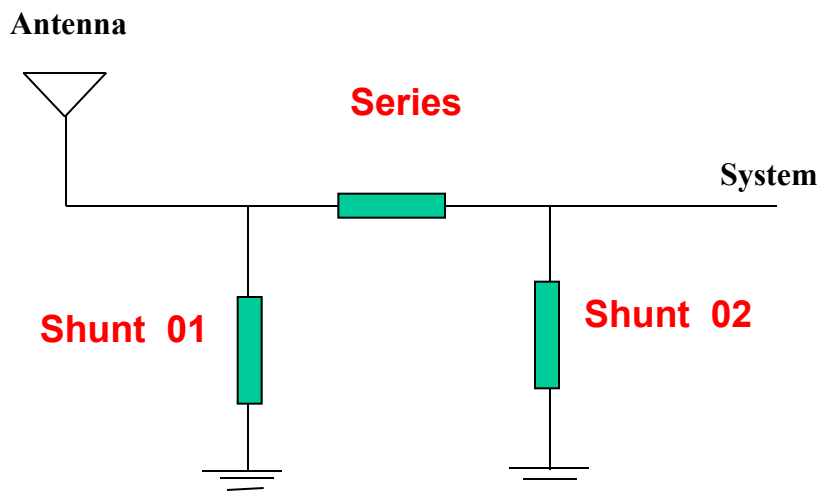
This report is to measure the performance of *Surbaner* FPC WIFI BT antenna for ND. All test data are showed as below.

Content

- 1: Product Overview & Dimension
- 2: Test Result
 - 2.1 VSWR
 - 2.2 Gain & Efficiency
 - 2.3 3D Data
 - 2.4 Open Sky C/N Value Test
- 3 : Conclusion
- 4 : EMI Handle Process
- 5 : Antenna Assembly Method

2. Test Result

2.2 Antenna Matching Network

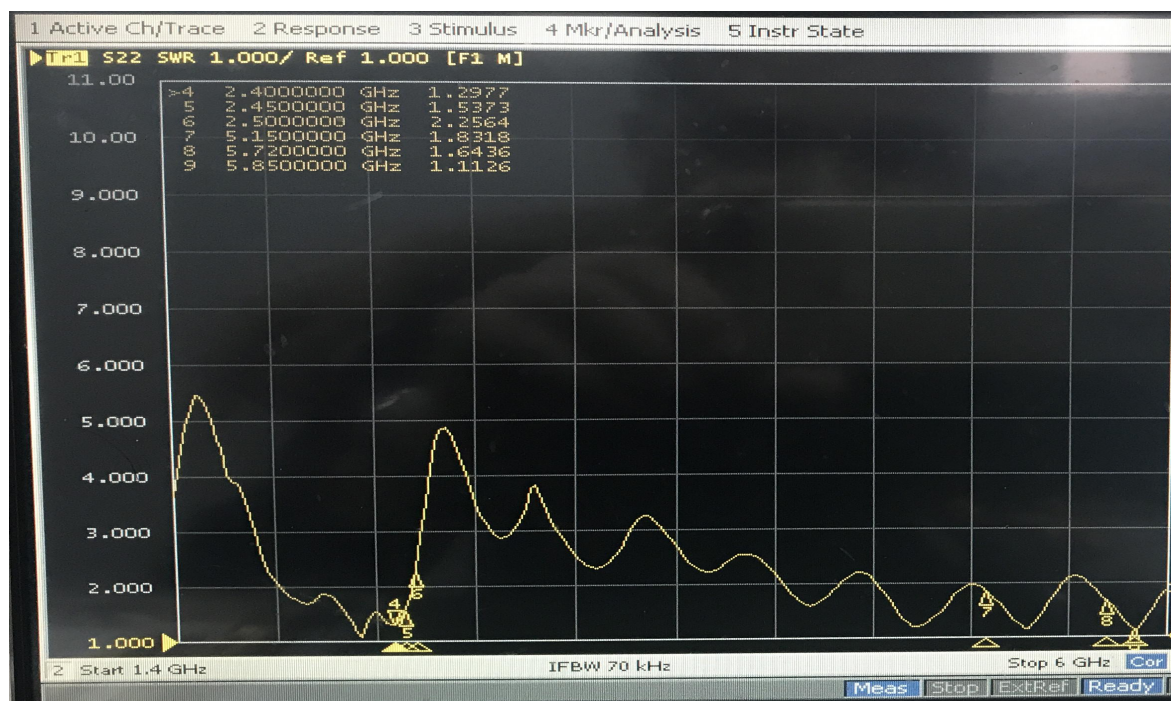


Location	capacitor	Inductor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

2. Test Result

2.1 WIFI VSWR

WIFI 1



Frequency (MHz)	2400	2450	2500	5150	5720	5850
VSWR	1.29	1.53	2.25	1.83	1.64	1.11

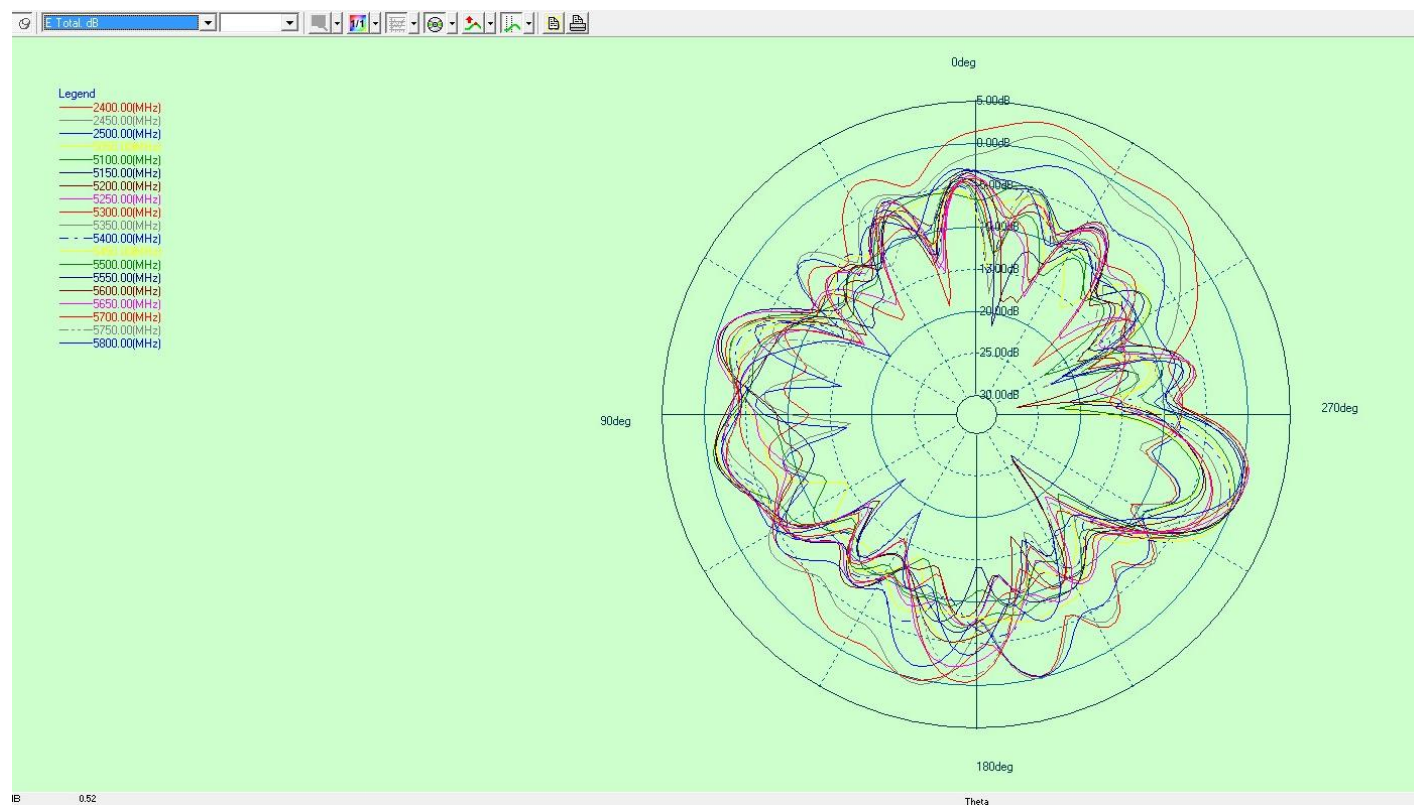
2. Test Result

2.3 GAIN & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	47.42	2.5
2450	43.56	2.43
2500	40.12	2.01
5150	36.12	2.86
5700	40.24	3.21
5850	43.41	3.34

4. Test Result

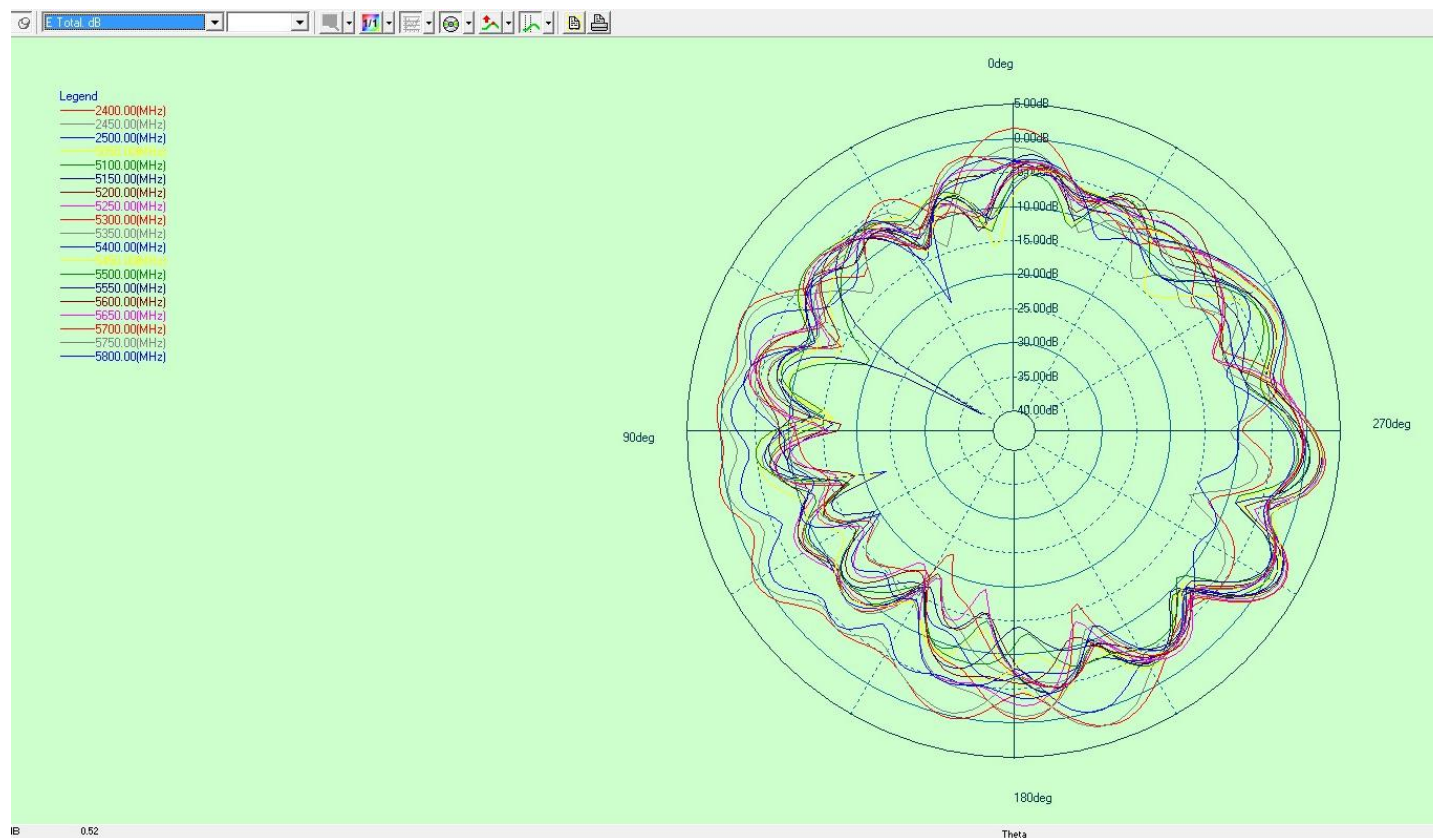
4.4 2D Pattern



X-Z Plane

4. Test Result

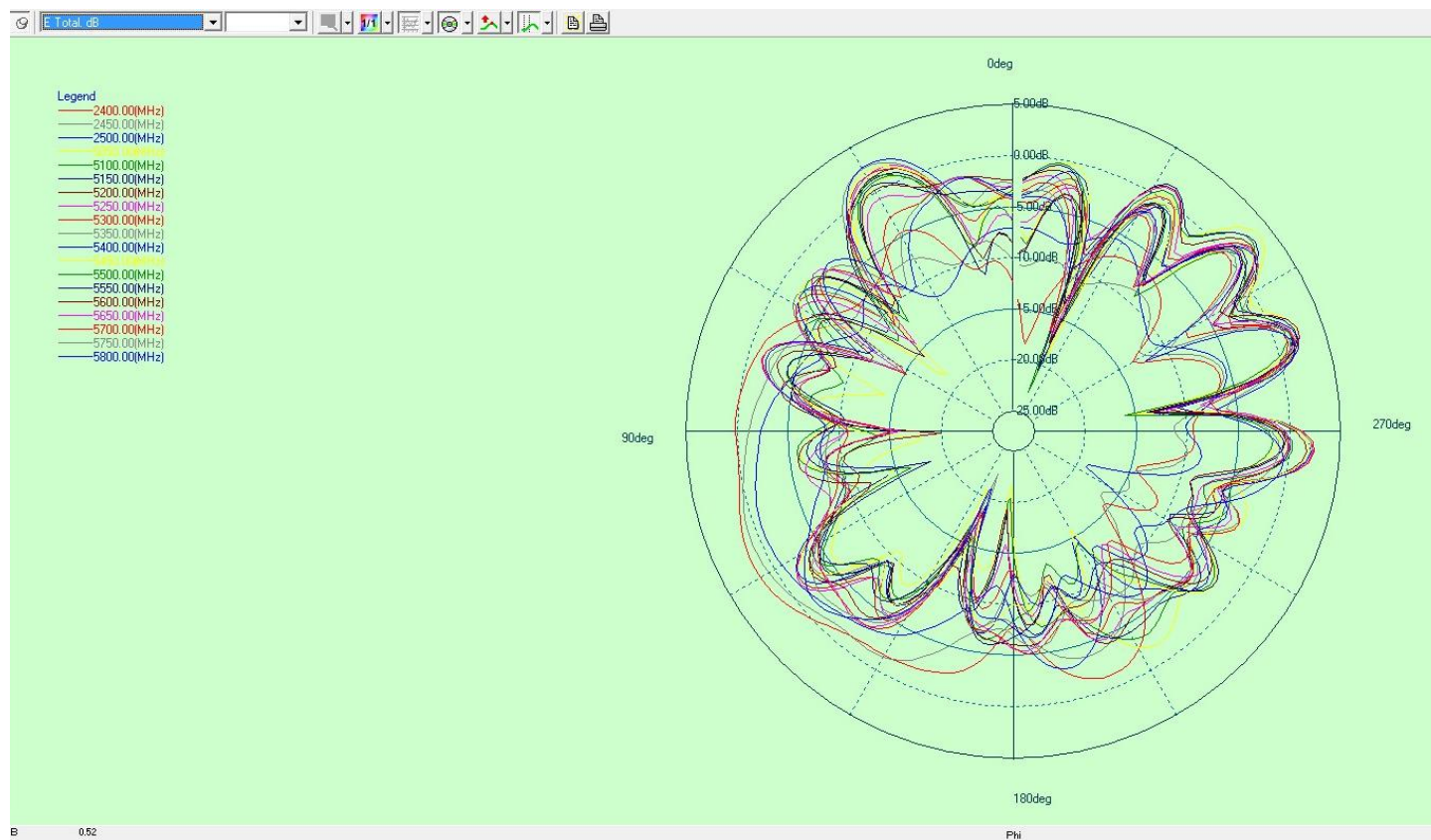
4.4 2D Pattern



Y-Z Plane

4. Test Result

4.4 2D Pattern

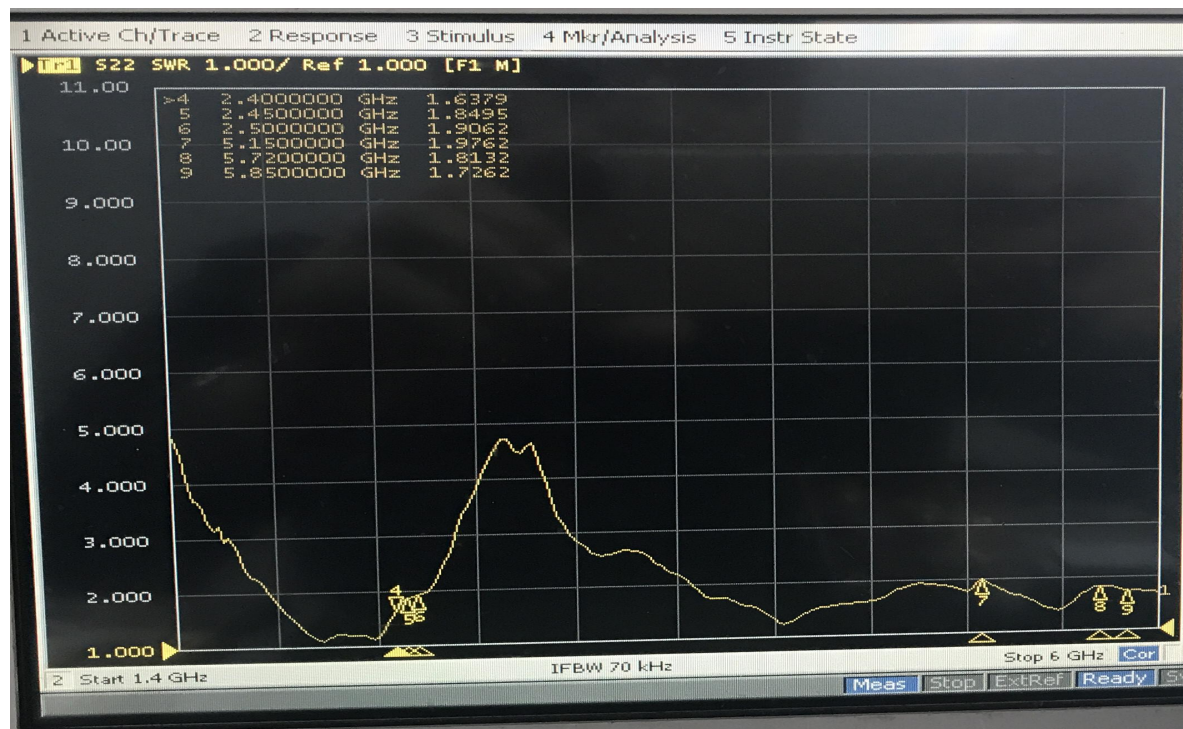


X-Y Plane

2. Test Result

2.1 WIFI VSWR

WIFI 2



Frequency (MHz)	2400	2450	2500	5150	5720	5850
VSWR	1.63	1.84	1.90	1.97	1.81	1.72

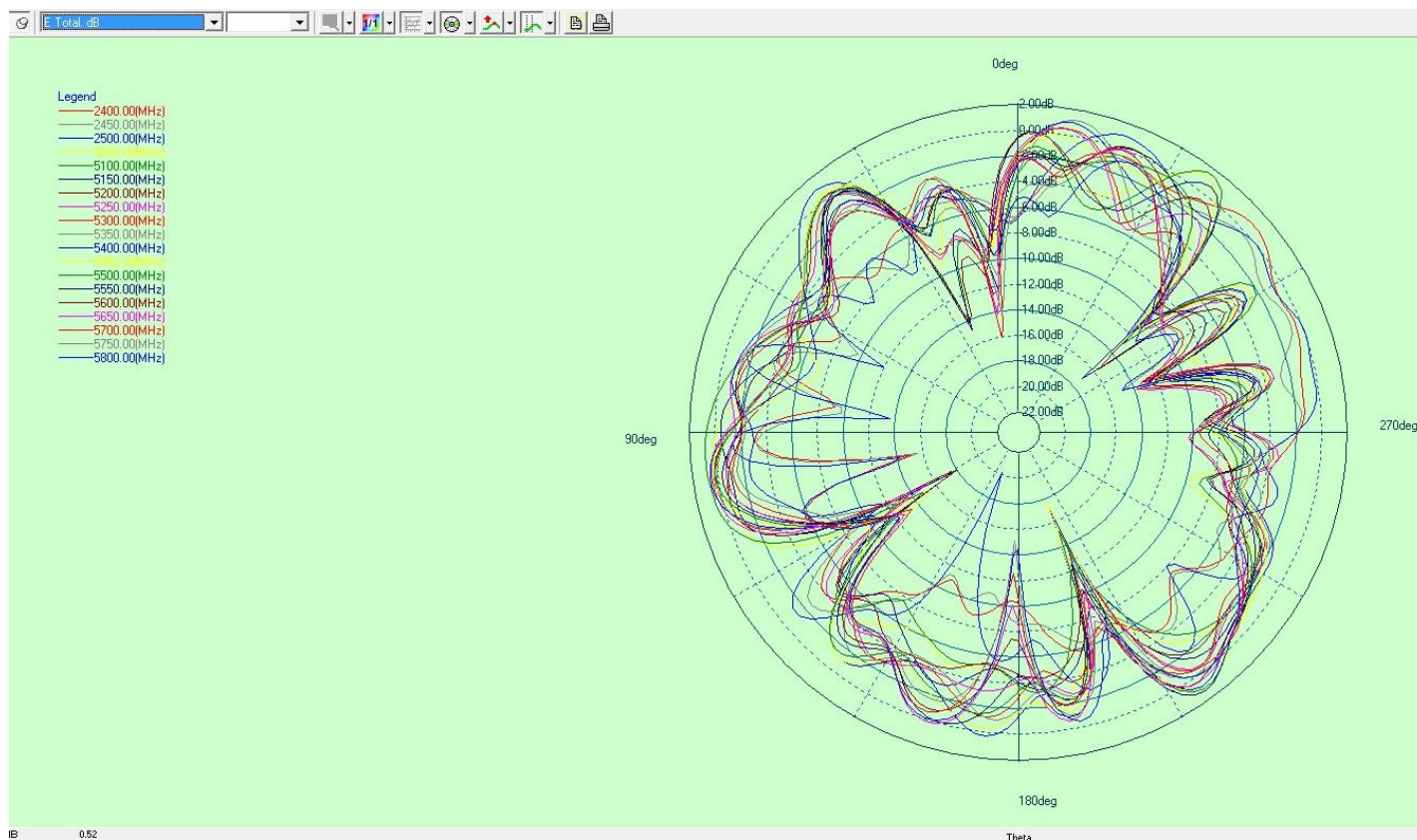
2. Test Result

2.3 *GAIN & Efficiency*

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	45.41	3.78
2450	42.15	3.98
2500	39.65	1.86
5150	40.12	2.65
5700	41.23	2.98
5850	42.41	3.12

4. Test Result

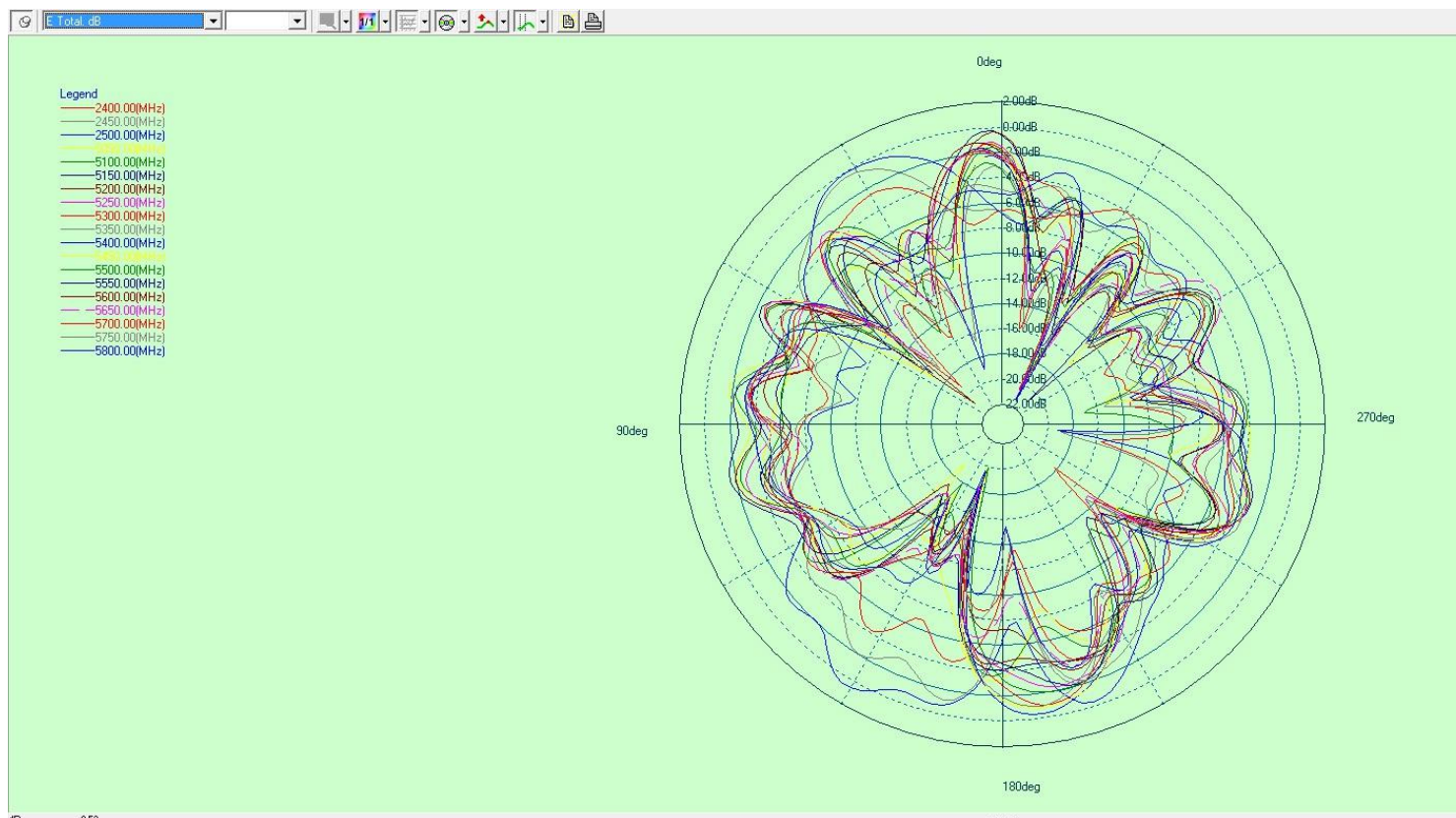
4.4 2D Pattern



X-Z Plane

4. Test Result

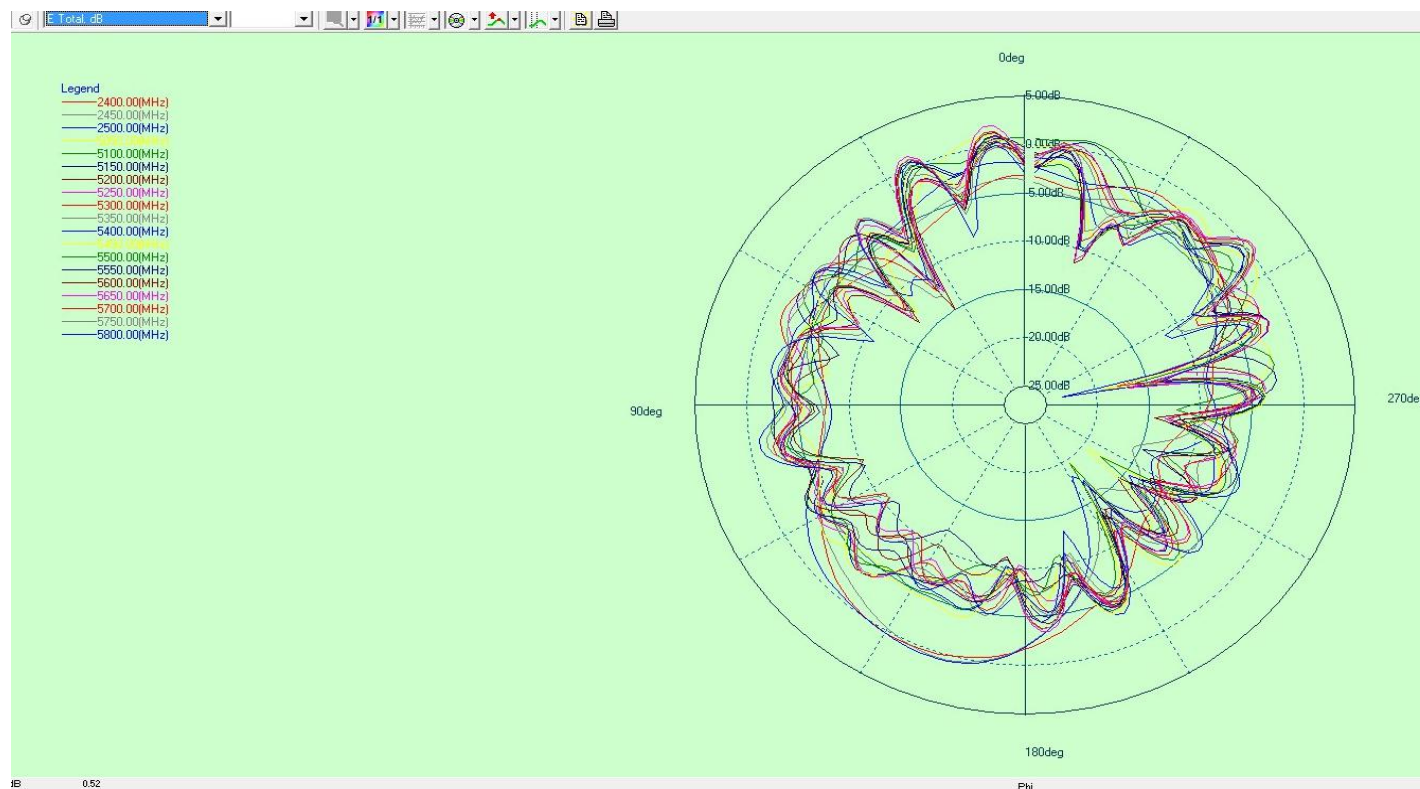
4.4 2D Pattern



Y-Z Plane

4. Test Result

4.4 2D Pattern



X-Y Plane

3. Conclusion

PCB end matching circuit is not changed, antenna performance is OK.