



868-915MHz Antenna Test Report



Project	pb05-L
Antenna Revision	A0
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Purpose

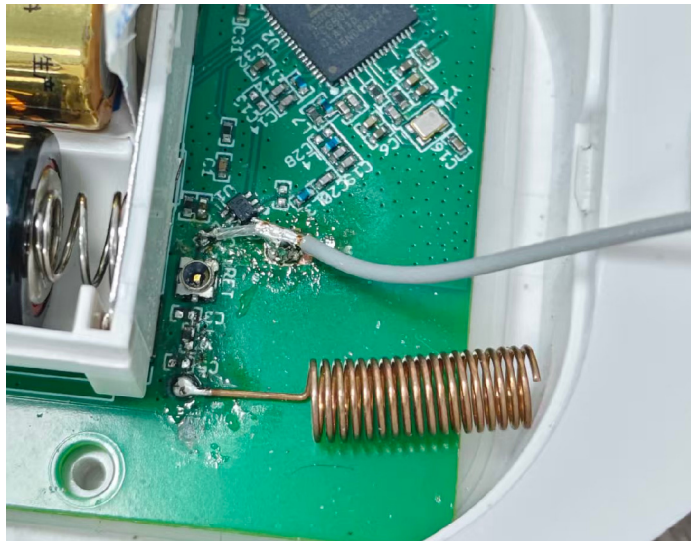
This report is to measure the performance of 868-915MHz antenna for pb05-L. The antenna operating frequency at 868-915MHz, All test data are showed as below.

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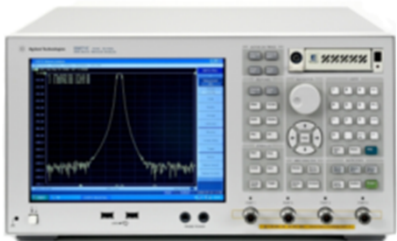
1. Antenna Photo

Antenna

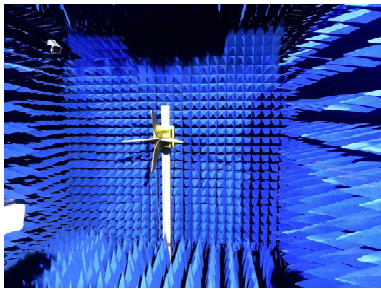


2.Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent E5071B & Agilent E5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500
Gain & Efficiency	Gain & Efficiency	Agilent E5071B



Agilent E5071B



飞图微波暗室

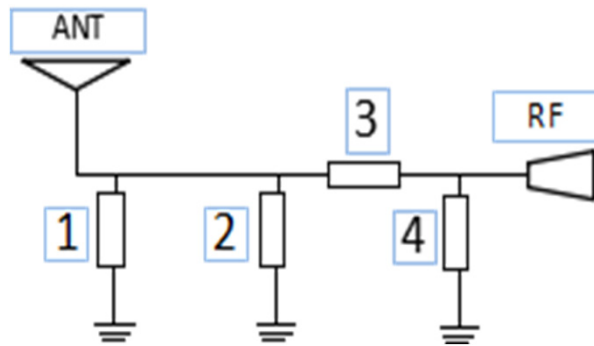


Agilent 8960



CMW 500

3. Antenna Matching Network

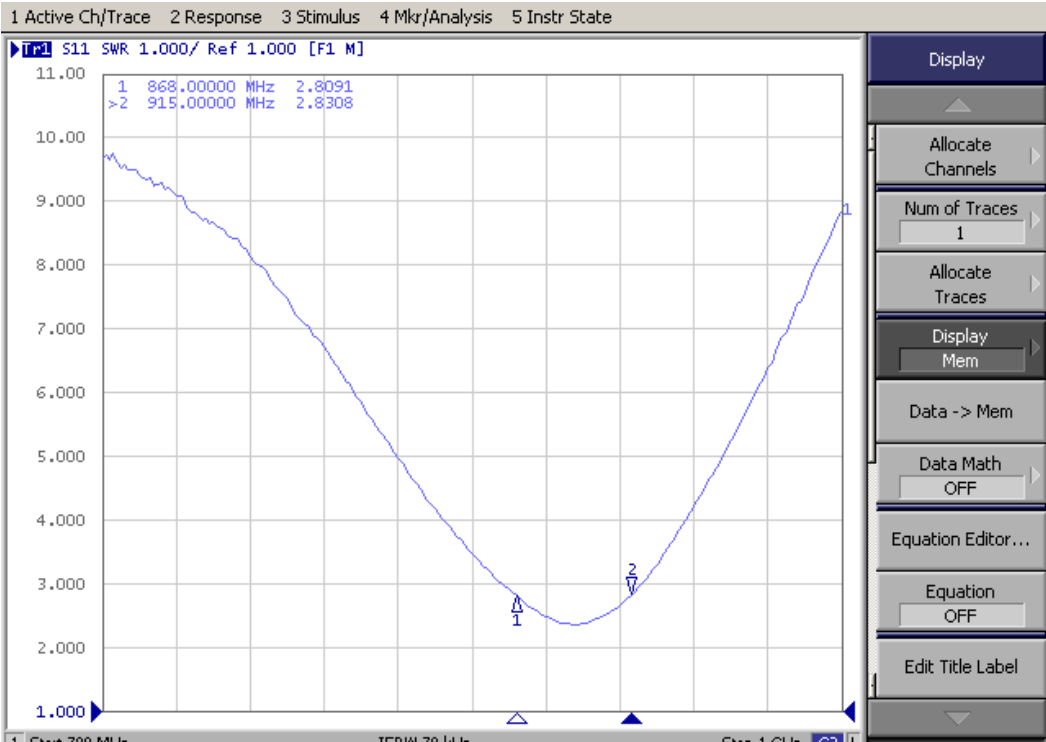


Element	Capacitor	Inductor	Electric resistance
1	N/A	N/A	N/A
2	N/A	N/A	N/A
3	N/A	N/A	N/A
4	N/A	N/A	N/A

The PCB board matching circuit remained unchanged.

4. Test Result

4.1 S11 Parameter-VSWR



Frequency (MHz)	868	915
VSWR	2.80	2.83

4. Test Result

4.2 Gain & Efficiency

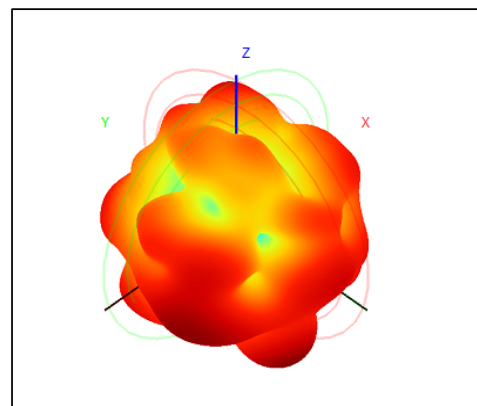
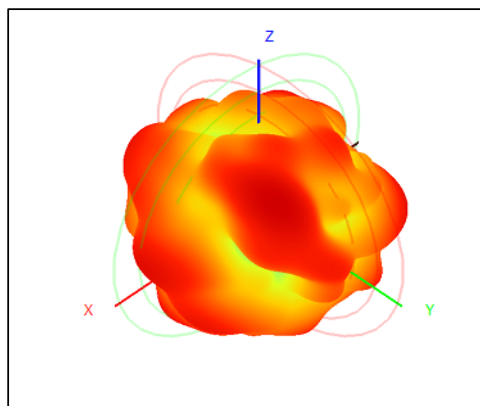
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
868	33.75	0.88
870	34.13	0.34
875	34.00	0.28
880	35.78	0.12
885	37.20	0.35
890	38.62	0.43
895	40.12	0.15
900	41.38	0.37
905	40.73	0.32
910	41.89	0.50
915	40.18	0.42
920	38.90	0.33

4. Test Result

4.3 2D&3D Pattern

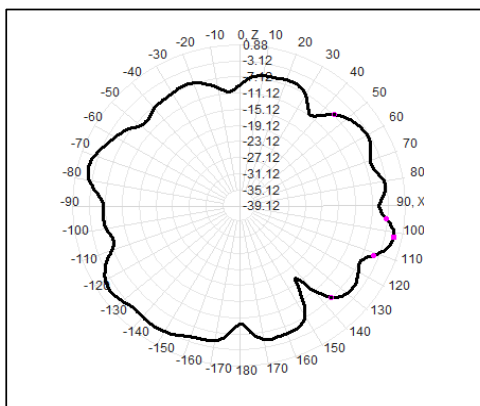
868MHz

3D

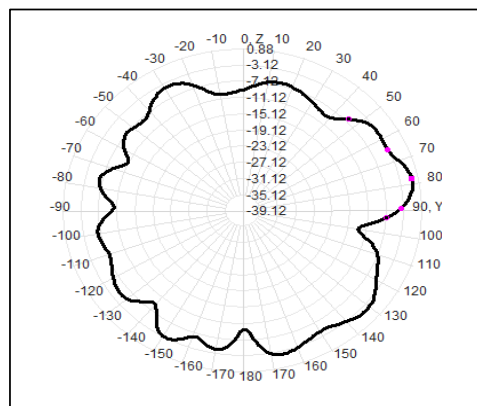


2D

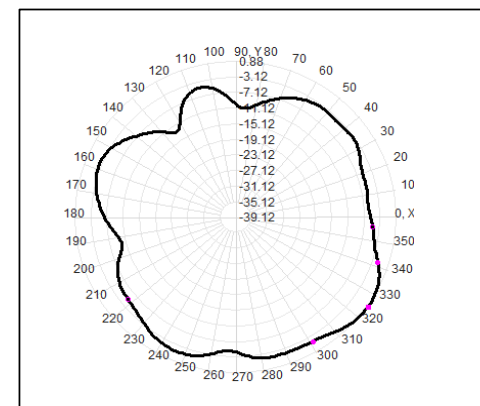
E1=XZ



E2=YZ



H=XY

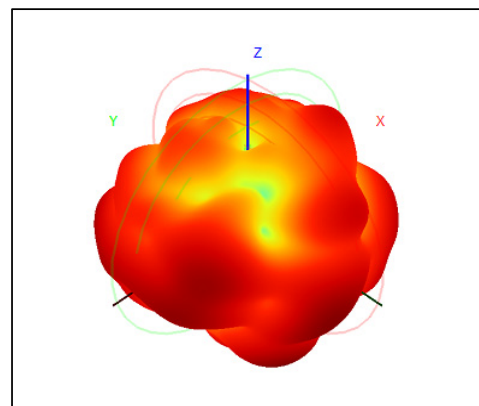
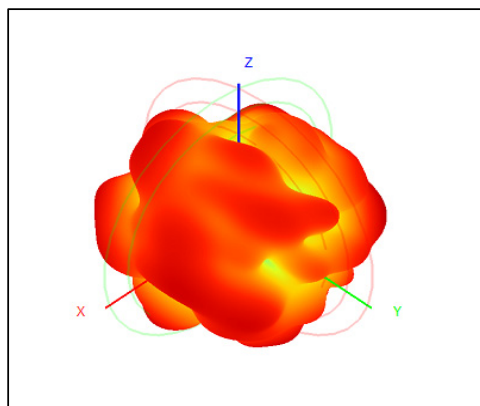


4. Test Result

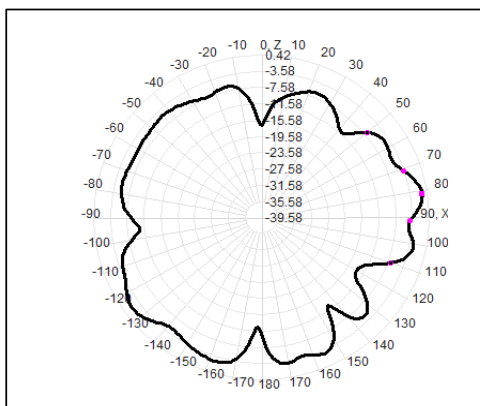
4.3 2D&3D Pattern

915MHz

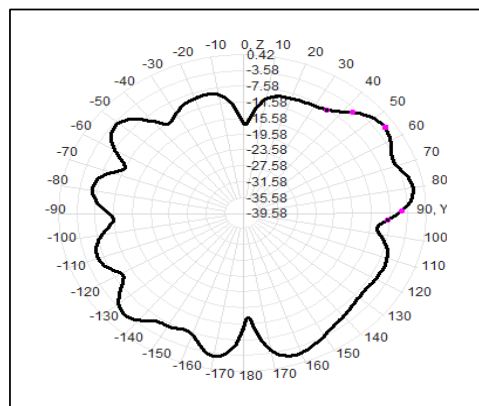
3D



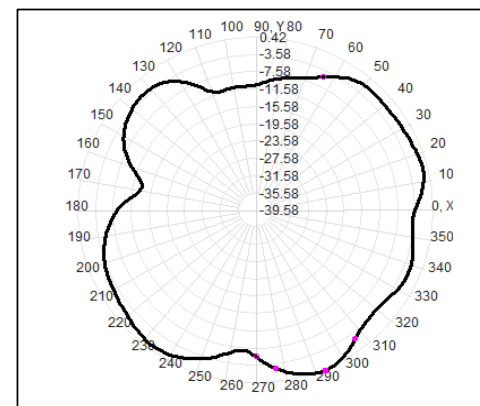
E1=XZ



E2=YZ



H=XY



2D



5. Conclusion

From the perspective of our active testing, the current performance is satisfactory. We would appreciate it if your team could promptly inform us of any other matters that may require attention