

915MHz Passive antenna report

client:

Items:

Preparation A0

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Reviewer: GuoXi18970988655

Date: 2024.07.17

catalogue:

This report is to debug the performance of the machine, the antenna operating frequency of , 915MHz test content;

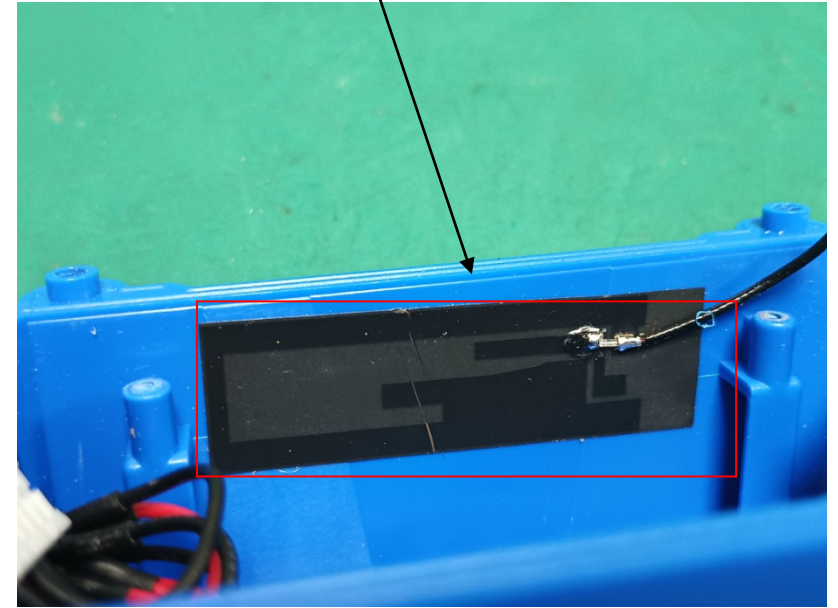
1. Product graphics
2. Test the system
3. antenna matching
4. Test results of antenna
 - 4.1 S11
Parameters
 - 4.2 Efficiency Gain
 - 4.3 Two, three- dimensional graphics
5. conclusion

1、Productgraphics

Front view



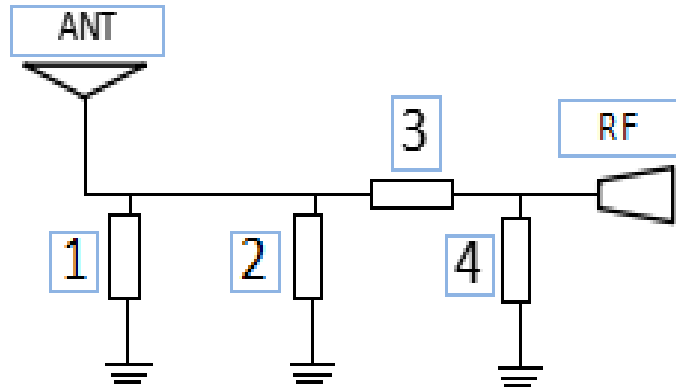
Main antenna



2、 Test system

Serial number	Testing instrument
S11 Parameters	Agilent 5071B
OTA testing	Agilent 5071B&CMW500&Agilent 8960&
Gain and efficiency	Agilent 5071B&

3、 Antenna matching



Serial Number	Capacitance	Inductance
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A

PCB end matching circuit is unchanged

4.1

S11



Frequency	915	
VSWR	4.47	

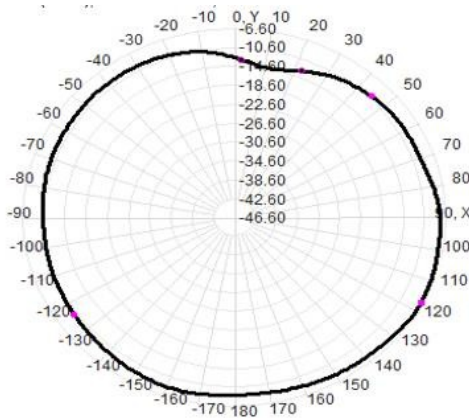
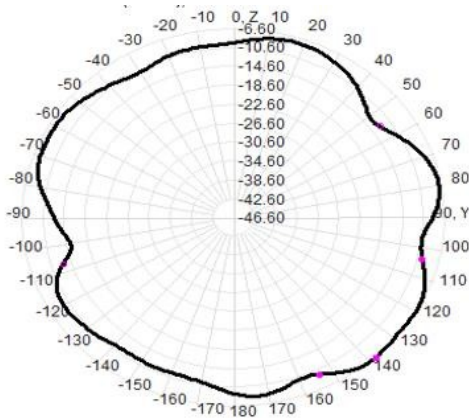
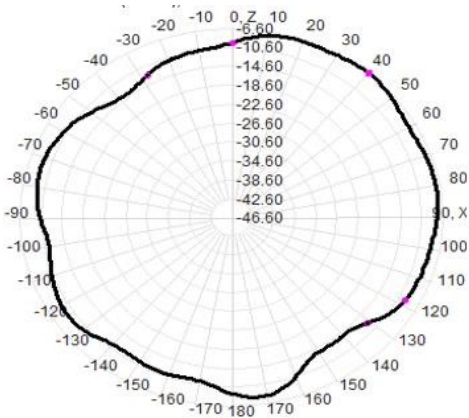
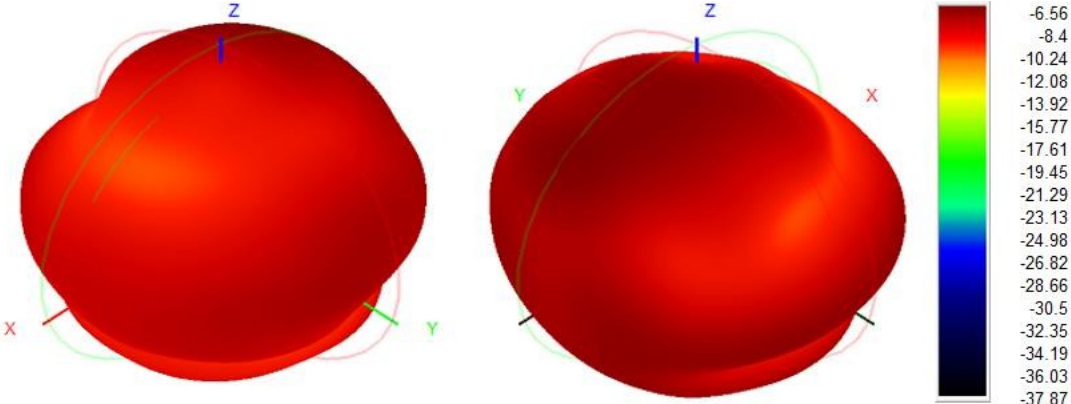
4.2 Efficiency Gain

Frequency(MHz)	Efficiency (%)	PeakGAIN (dBi)
915	30.46	-6.55
902	33.75	-6.56
928	27.68	-6.56

4.3 Two, three-

dimensional

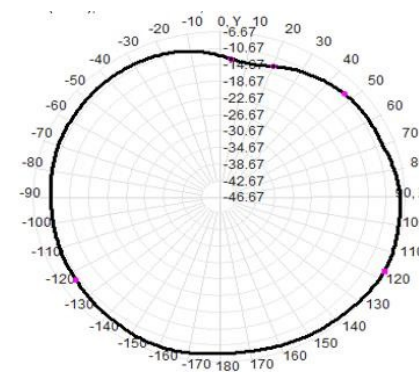
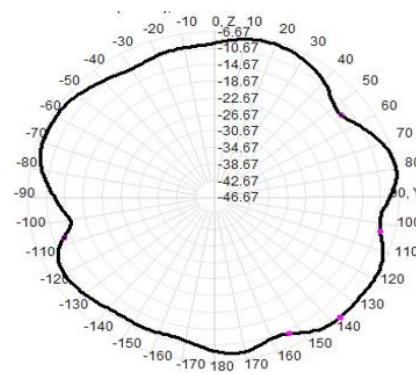
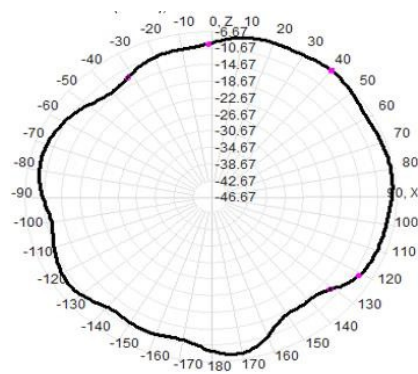
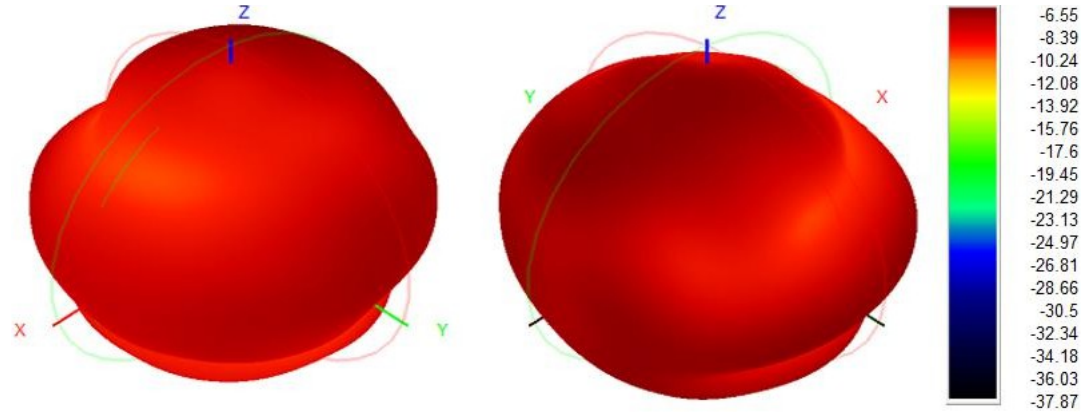
graphics 902MHz



4.3 Two, three-

dimensional

graphics915MHz



4.3 Two, three-

dimensional

graphics928MHz

