



SA-7733 2.4G Printer Antenna Report

2022-01-17

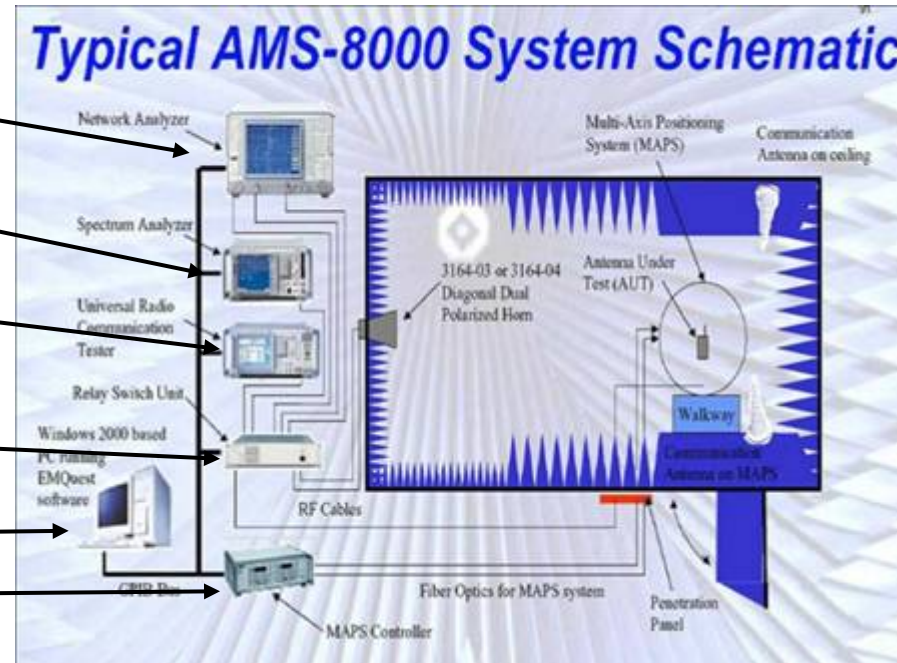
Antenna Test System

- ETS-Lindgren AMS-8000 Series System Components
- Chambers
- EMQuest EMQ-100 Software
- Positioning Systems
- Chamber Room Size: L*W*H=7.3*3.7*3.7 M



NA 8720ES

- **Network Analyzer**
Agilent 8720ES
- **Spectrum Analyzer**
R&S FSP13
- **Universal Radio Communication Tester**
R&S CMU200
- **Switch**
Agilent 3499B
- **PC and Software**
- **Rotate Controller**
ETS-Lindgren 2090



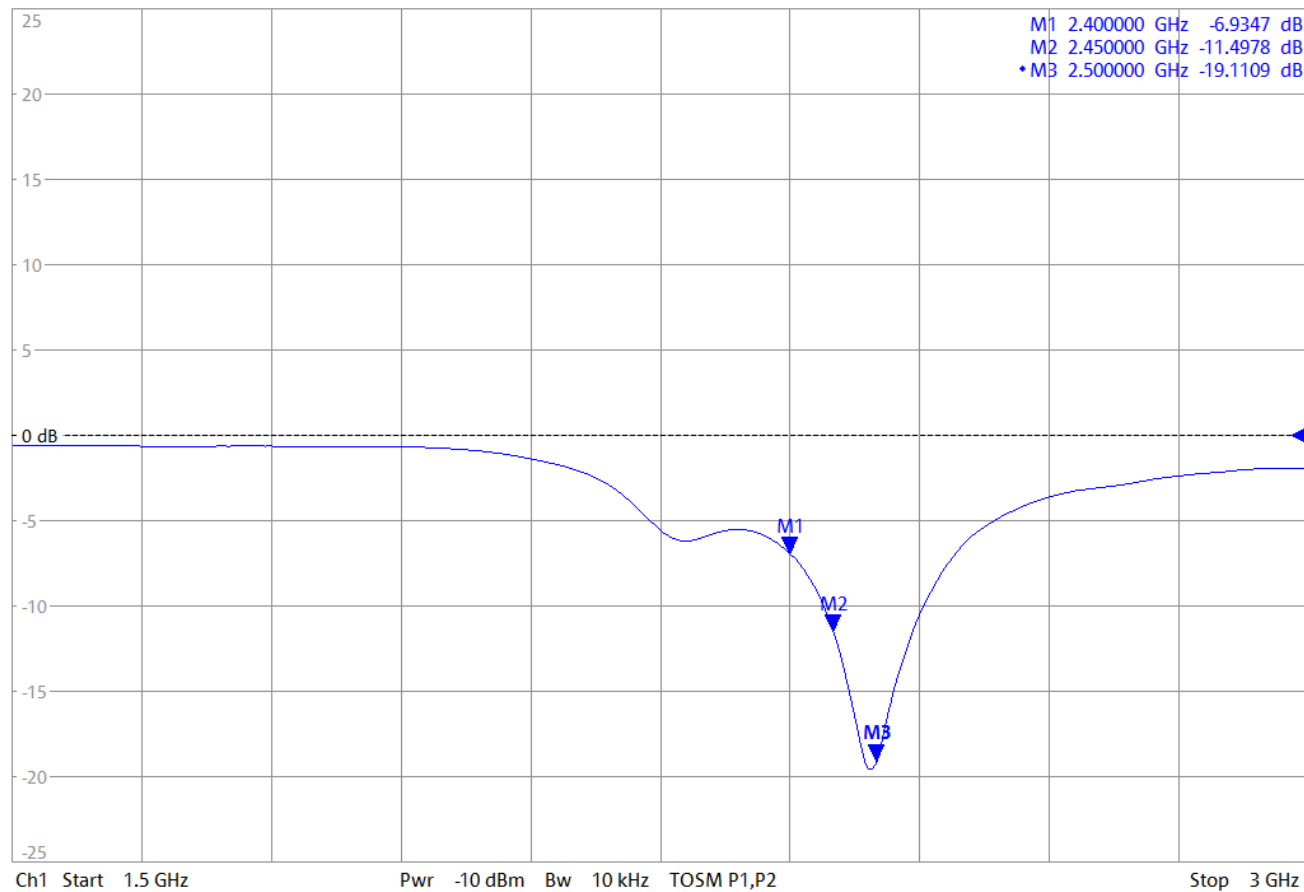
ANT S-Parameter



1/12/2022 9:02:24 AM
1328.5170K92-102391-Qt

Trc1 — S11 dB Mag 5 dB/ Ref 0 dB Cal int

1



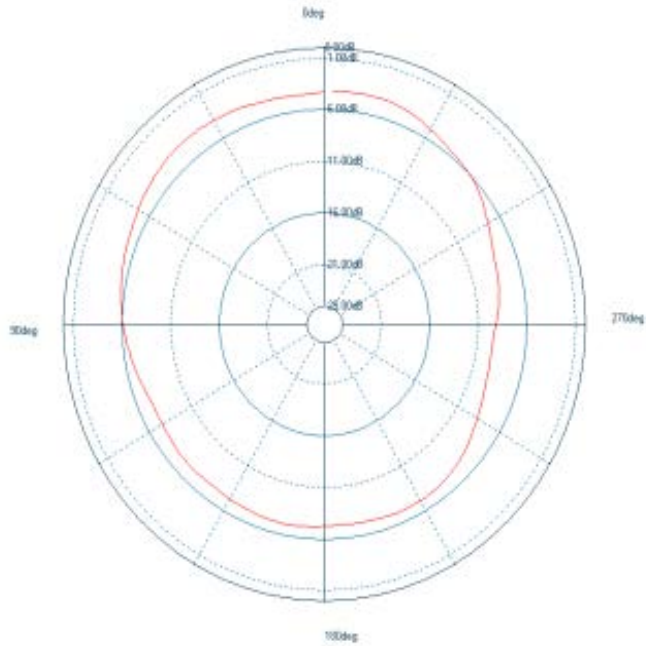
Gain Table



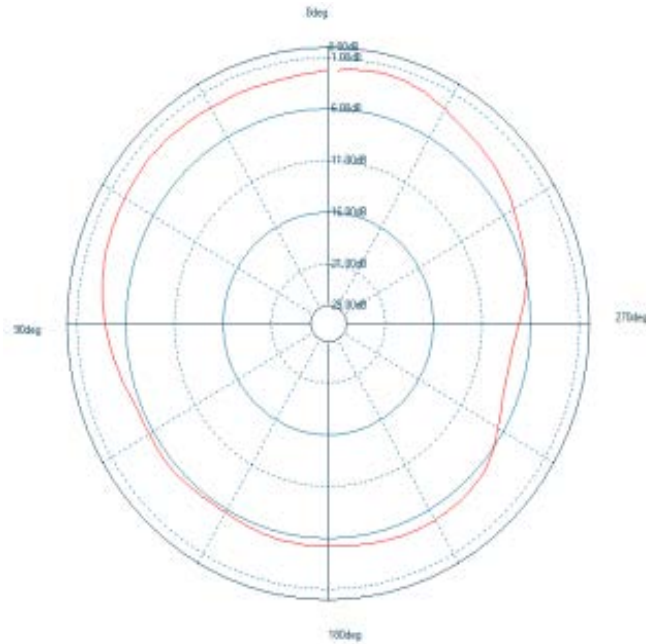
Frequency (MHz)	2350	2400	2450	2500	2550
Efficiency(%)	11.0	20.0	31.0	45.0	45.0
Peak Gain(dBi)	-2.20	-1.60	-0.50	1.50	2.10



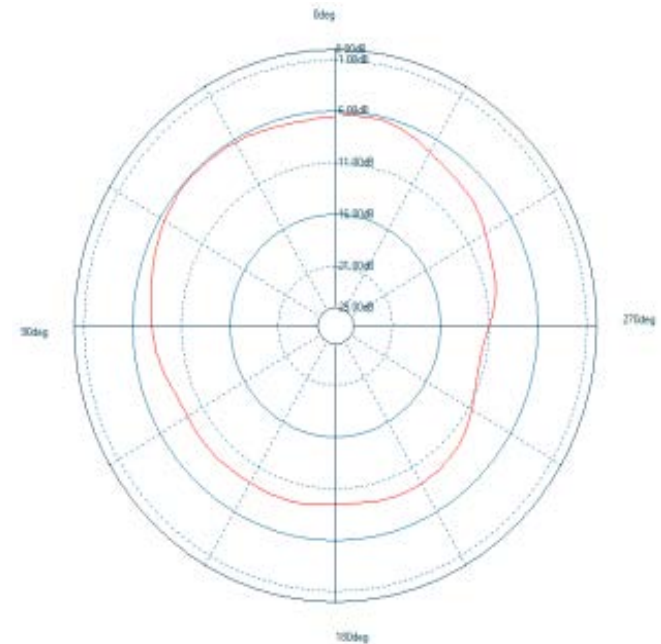
Antenna 2D Radiation Pattern



2.4GHz



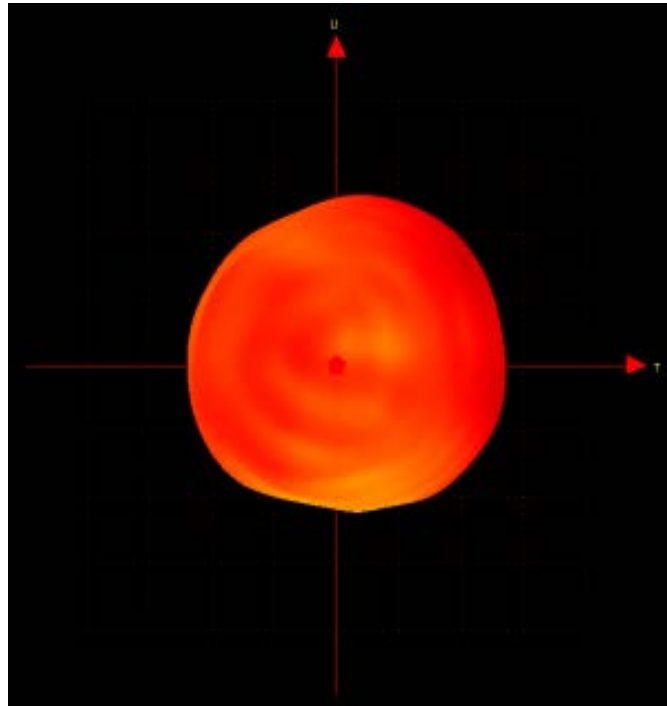
2.45GHz



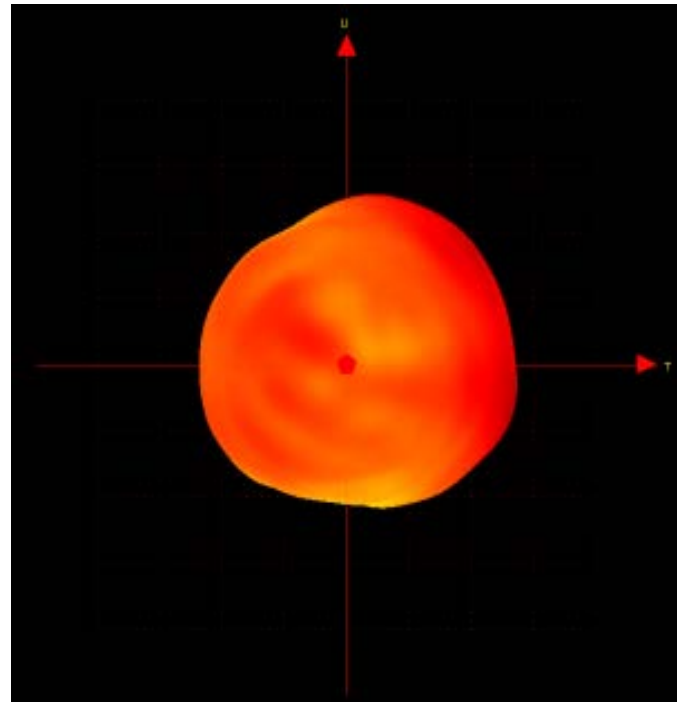
2.5GHz



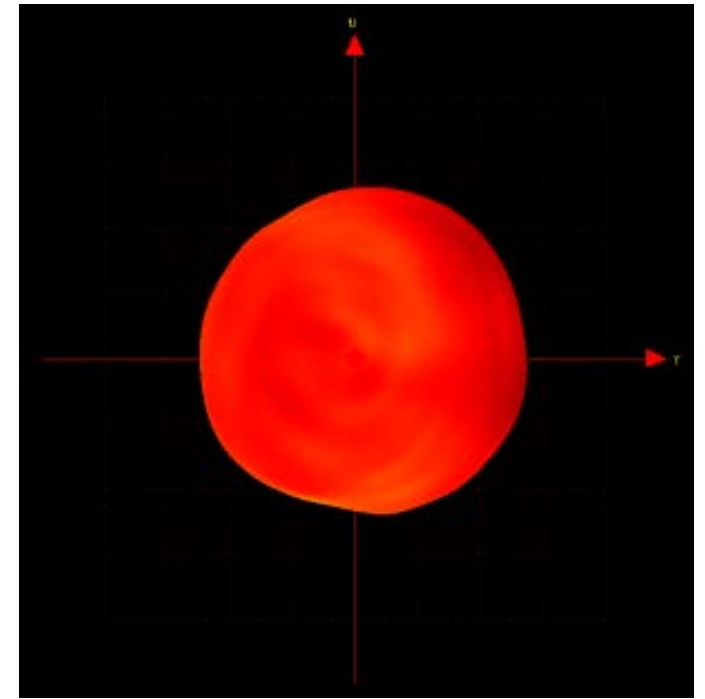
Antenna 3D Radiation Pattern



2.4GHz



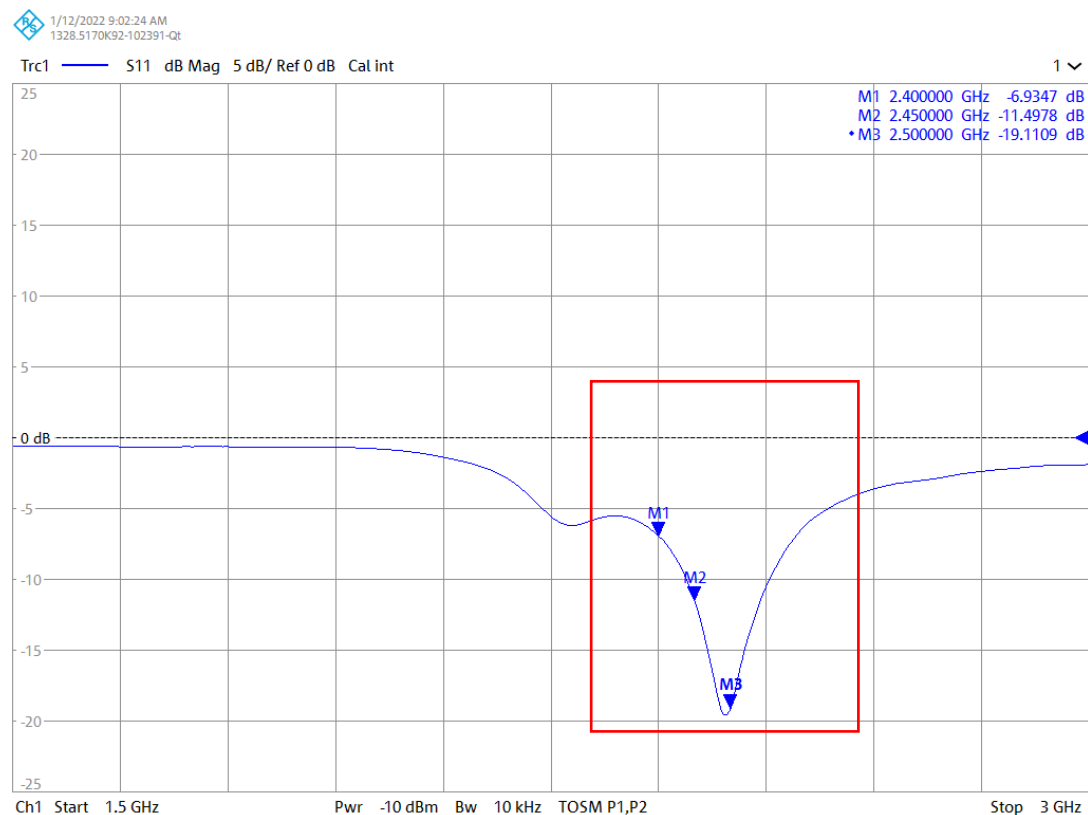
2.45GHz



2.5GHz

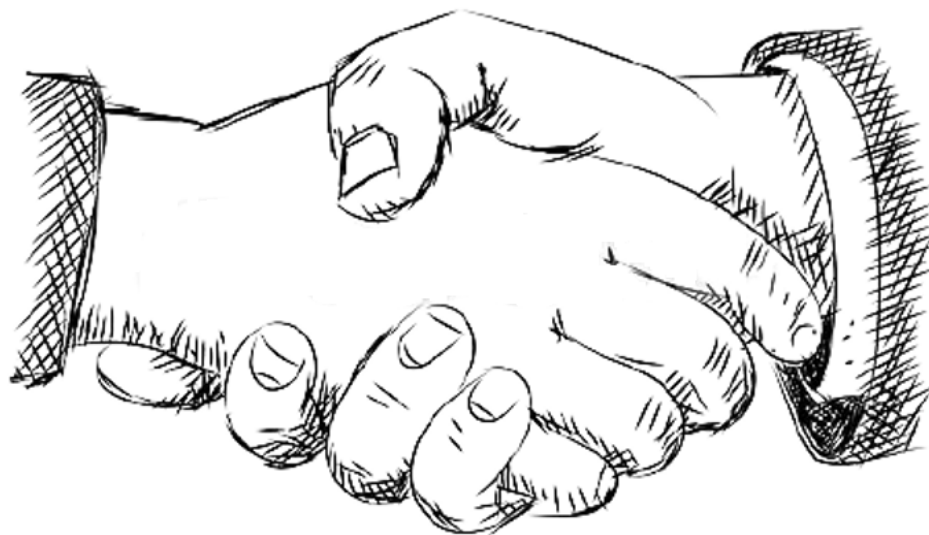
Conclusion

天線原始狀態頻段略往高頻偏移，建議先實測，如連線距離不足再進行優化。





Thank You!



碧擎科技有限公司
Bi Qing Technology Co., Ltd.