

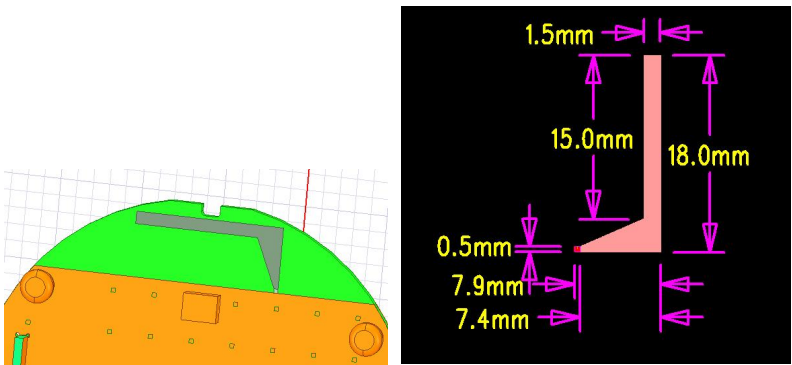
RT-8252 Antenna Report

Date	Description	Author	Note
20220718	Initial release	Tony.Zhong	None

1. Antenna Description:

Antenna type	Monopole antenna
Model name	RT-8252
Antenna gain	4dBi(Typical)
Frequency range	2.4GHz~2.5GHz
Connector type	PCB
Location of measurement	SHENZHEN RTI-TEK CO.,LTD

2. Antenna Model

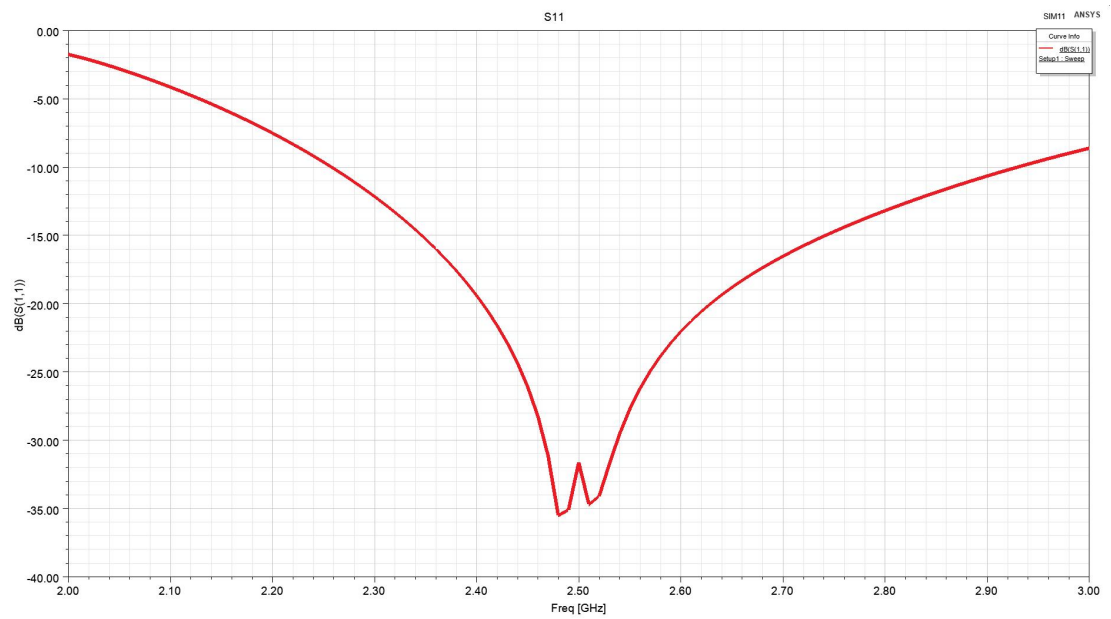


3. Antenna Specification

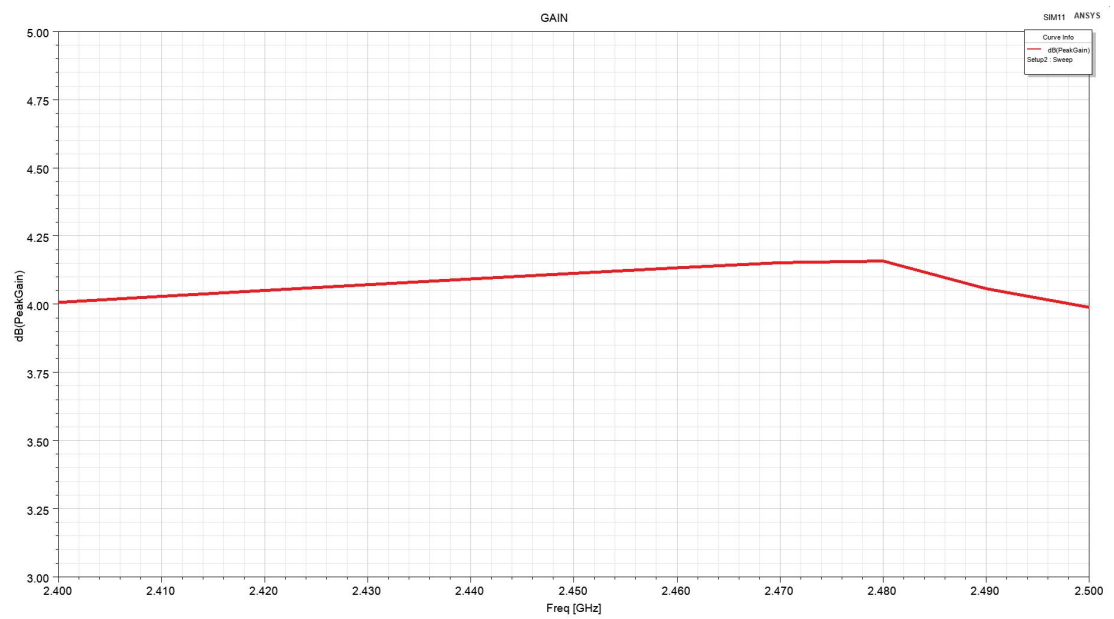
3.1 VSWR

Frequency	S11
2.4GHz~2.5GHz	<-10dB

S11:

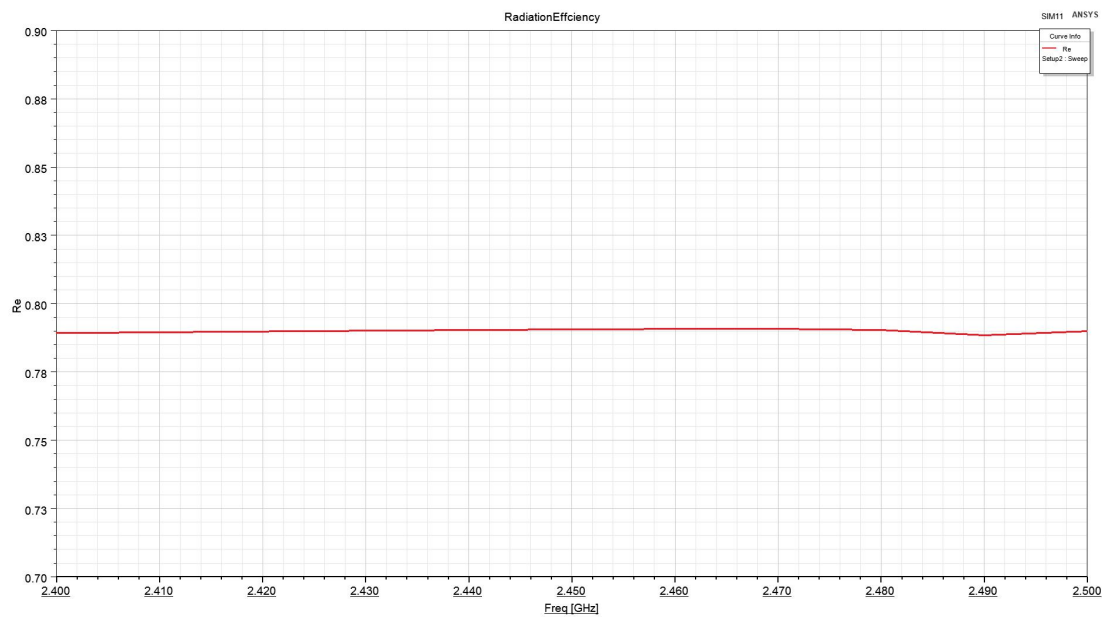


3.2 Gain



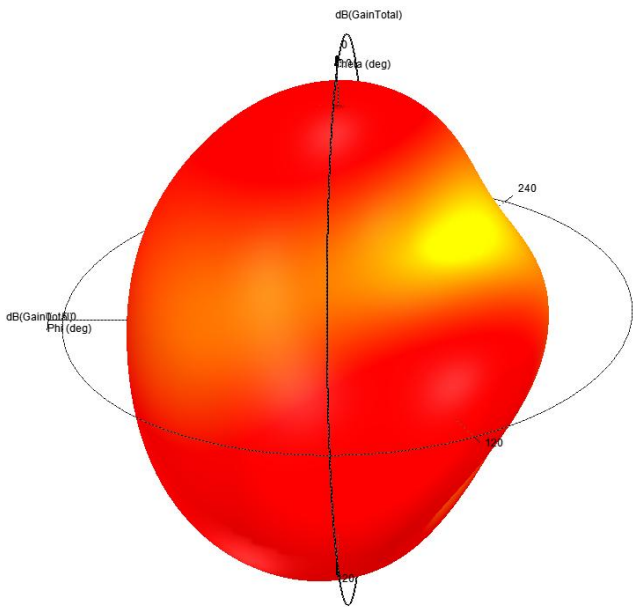
3.3 Efficiency

Radiation efficiency is more than 75%.



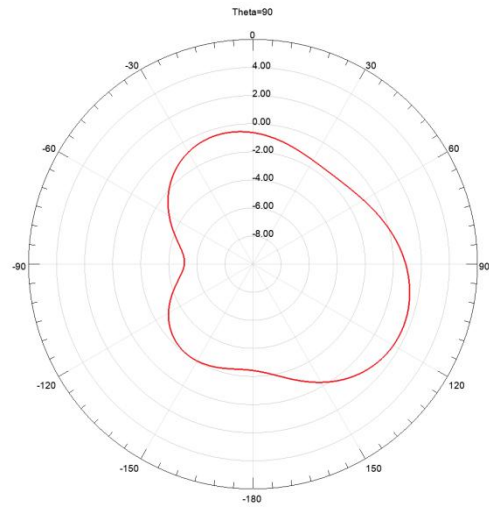
3.4 Antenna Radiation Pattern

3.4.1 3D Pattern



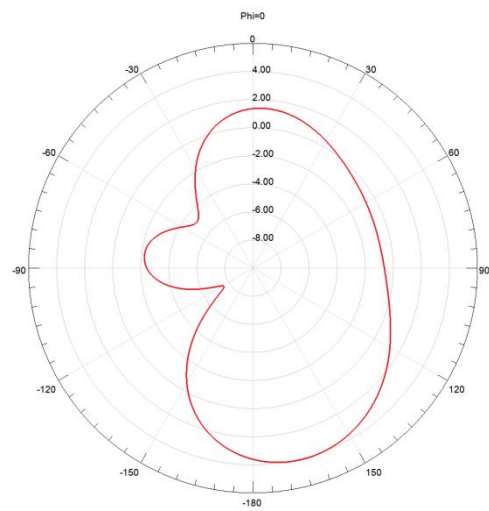
3.4.2 2D Pattern

Theta=90°



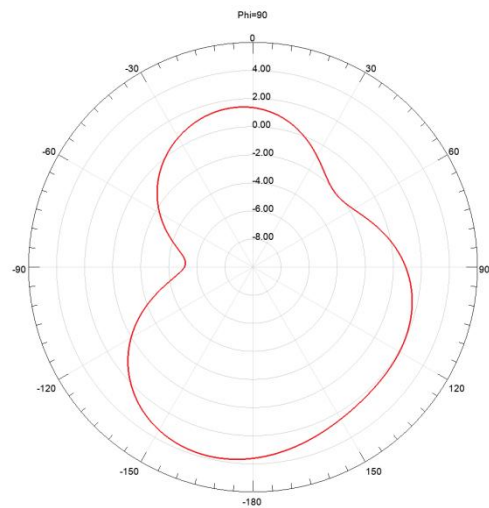
SBM11 ANSYS
Curve Info
dB(ScaTnTotl)
Setup1: LossReduction
Param2: dB(ScaTnTotl) Theta=90deg

Phi=0°



SBM11 ANSYS
Curve Info
dB(ScaTnTotl)
Setup1: LossReduction
Param2: dB(ScaTnTotl) Phi=0deg

Phi=90°



SBM11 ANSYS
Curve Info
dB(ScaTnTotl)
Setup1: LossReduction
Param2: dB(ScaTnTotl) Phi=90deg

4. **Summary**

All indexes of the antenna meet the requirements.