



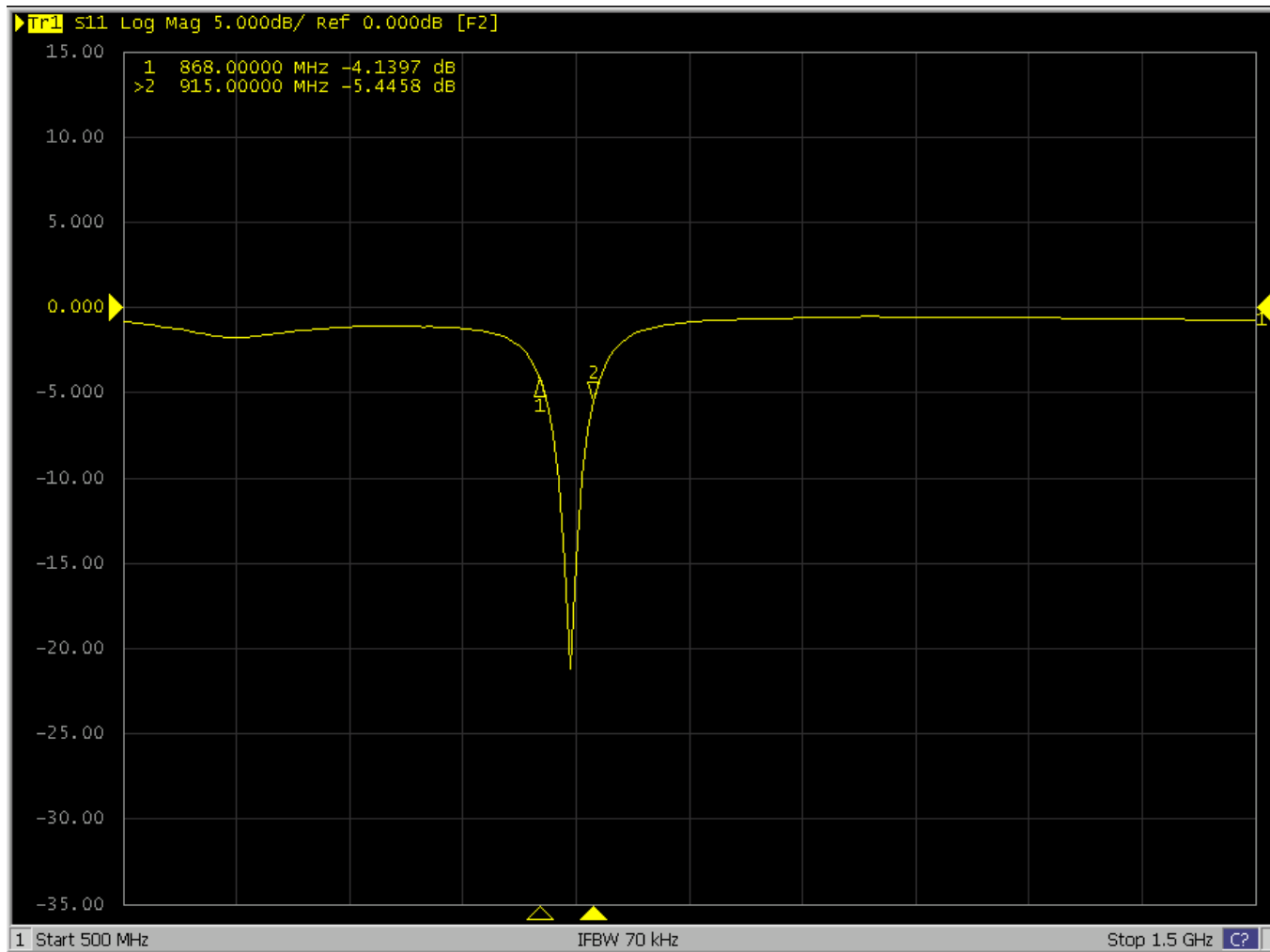
雲創 RFID Antenna 【ES27】 Project

Date 2021/12/02
Author Tim

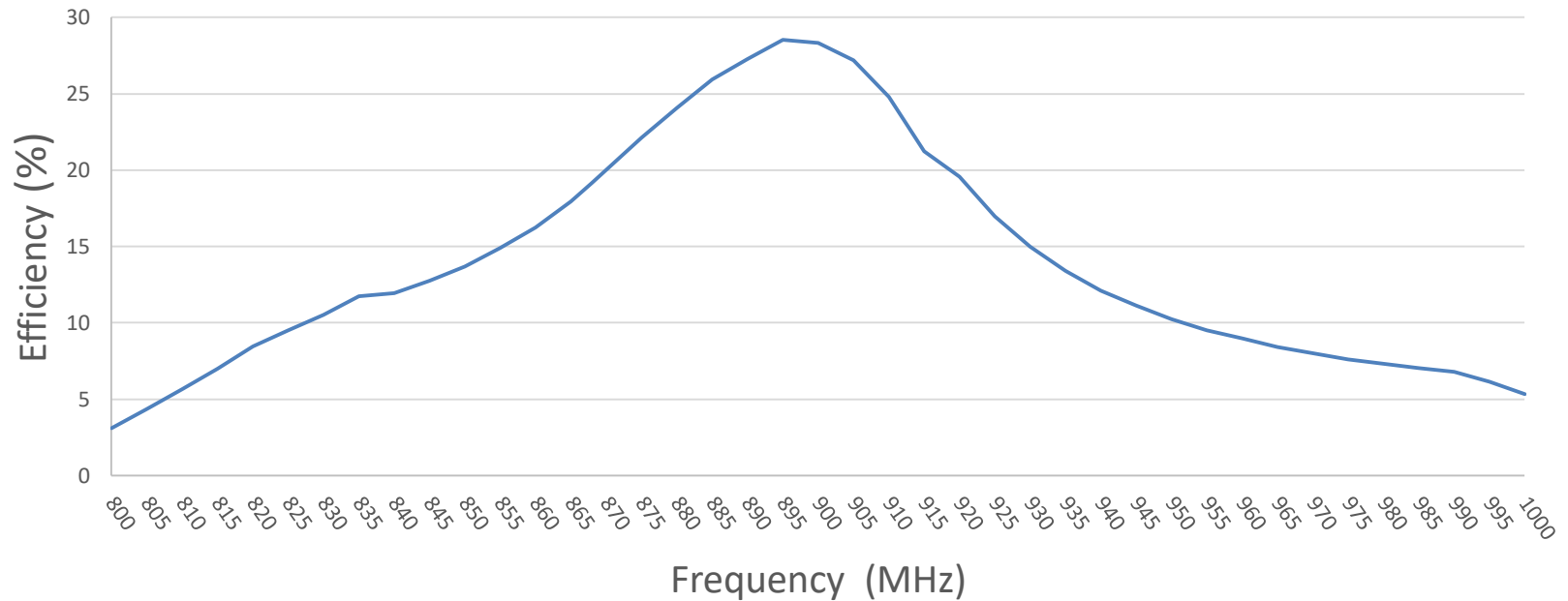
Environment



Antenna S11

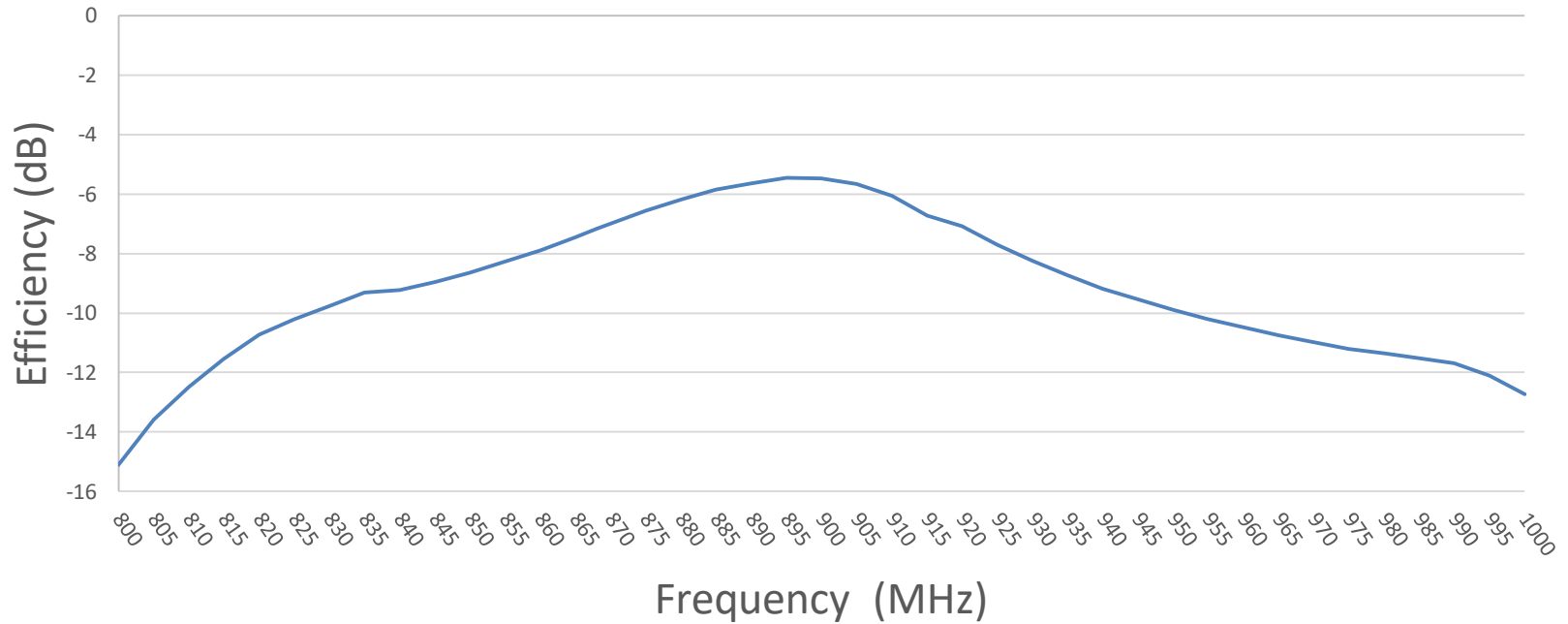


Antenna Efficiency



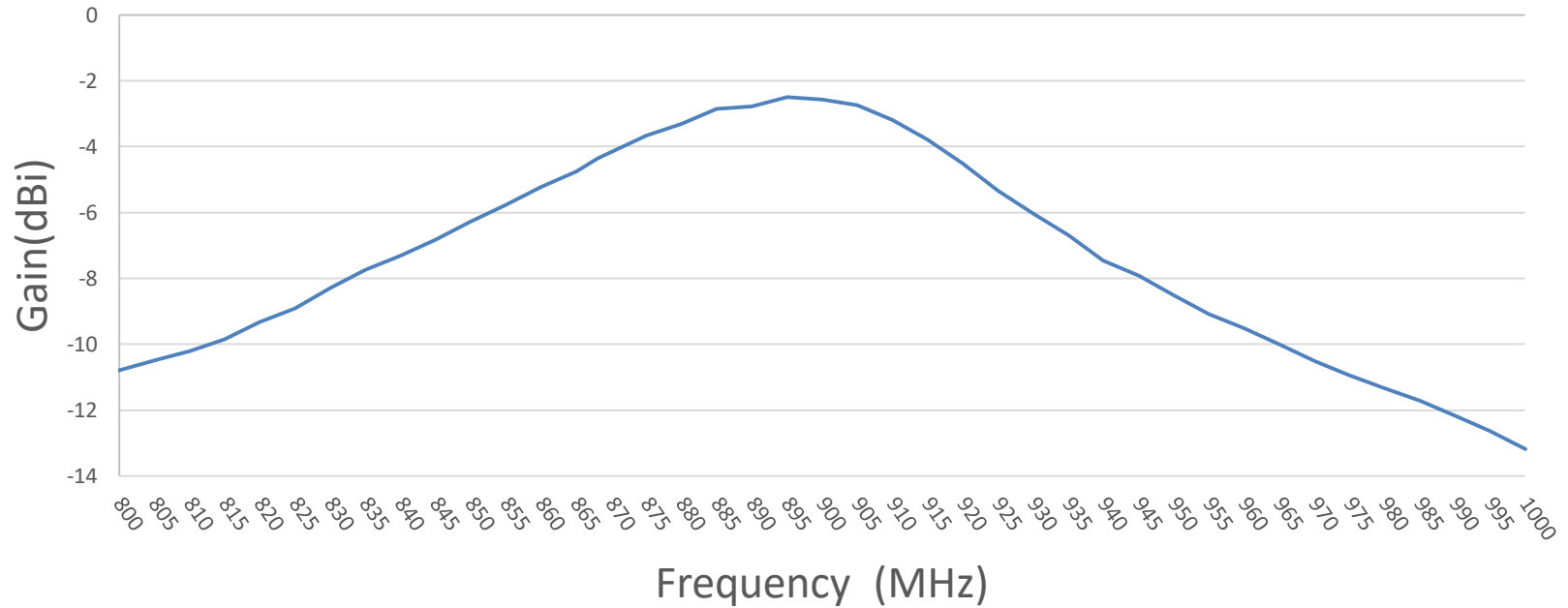
Frequency (MHz)	868	915
Efficiency(%)	19.18	21.24

Antenna Average Gain



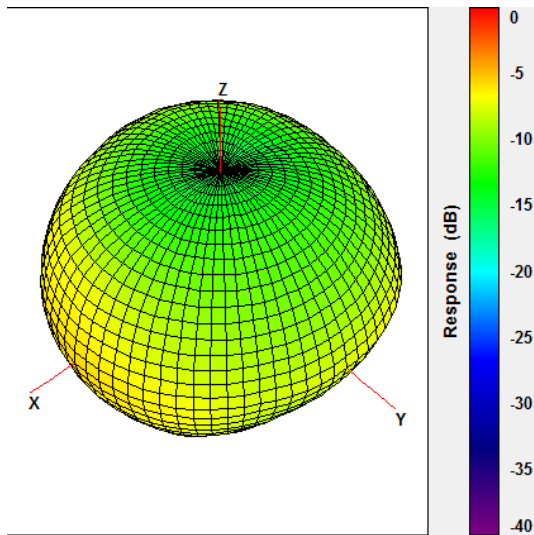
Frequency (MHz)	868	915
Efficiency(dB)	-7.17	-6.73

Antenna Peak Gain

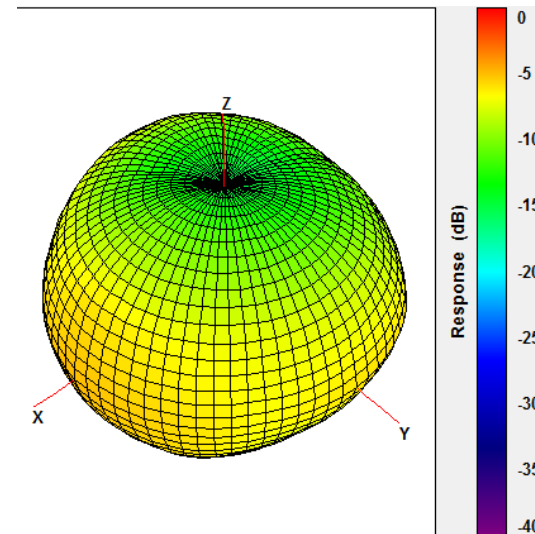


Frequency (MHz)	868	915
Gain(dBi)	-4.36	-3.80

Antenna 3D Pattern



868MHz



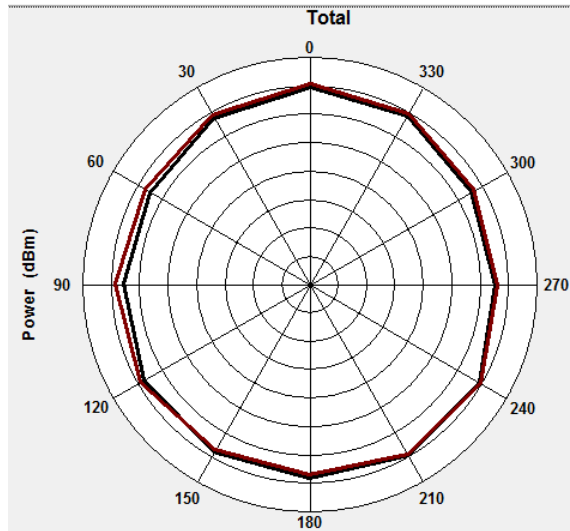
915MHz

Antenna 2D Pattern

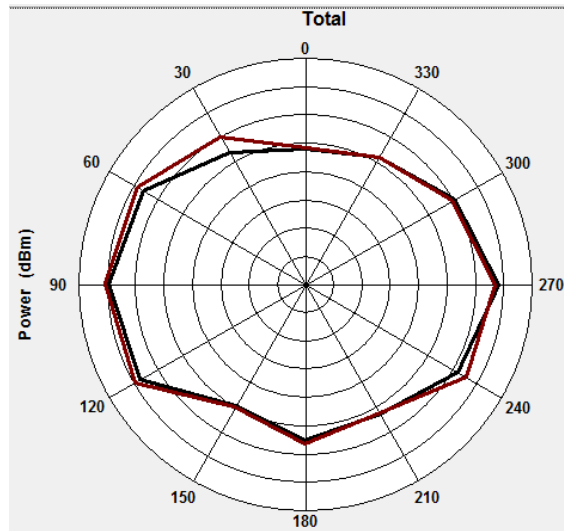


868 MHz
915 MHz

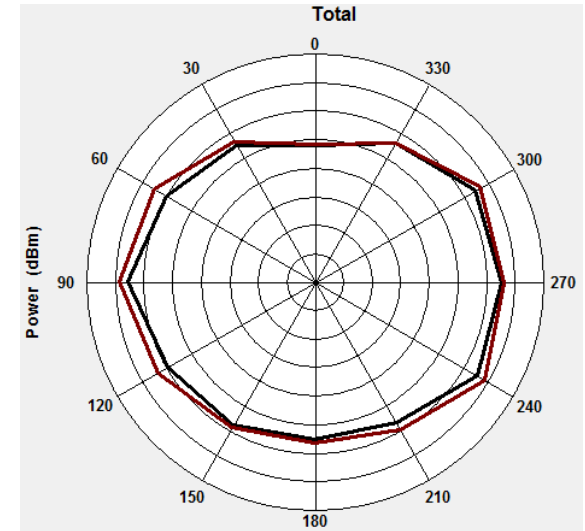
Max: 0
Min: -40
Scale: 5/div



XY-Plane

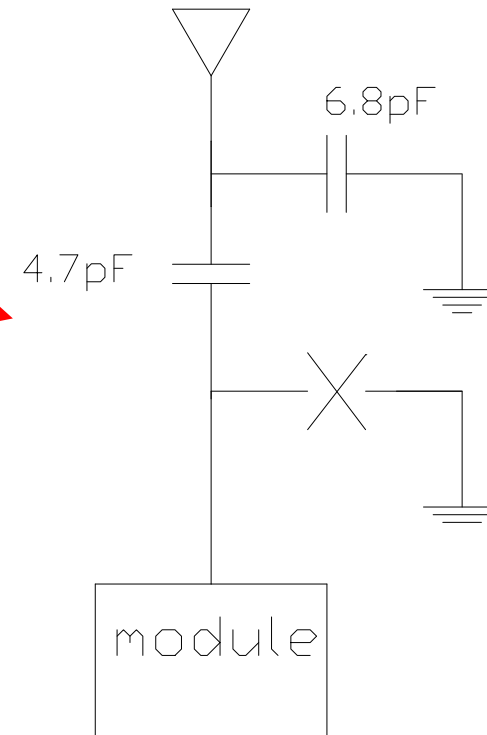
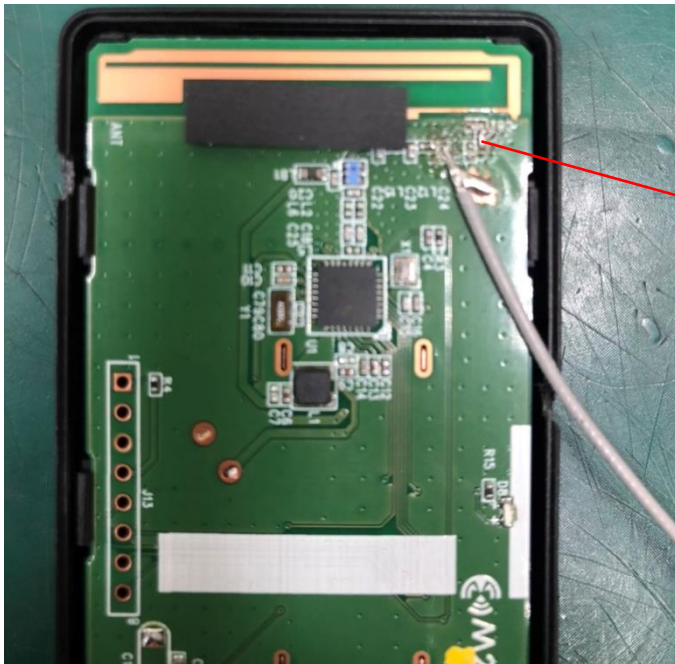


XZ-Plane



YZ-Plane

Matching Circuit



Summary

此報告使用客戶提供PCB版，搭配先前使用外殼，量測868/915MHz天線，經頻率匹配阻抗調整後，天線效率約19~21%，其餘測試資料如上述報告所示，供客戶參考。