



安聯智能 WIFI Antenna 【EKS-D7X1S】Project

Brand Name : Cirocomm

DESCRIPTION : Chip Antenna
(3.05x1.6x0.55 mm)

Model Name : DCAH0S04

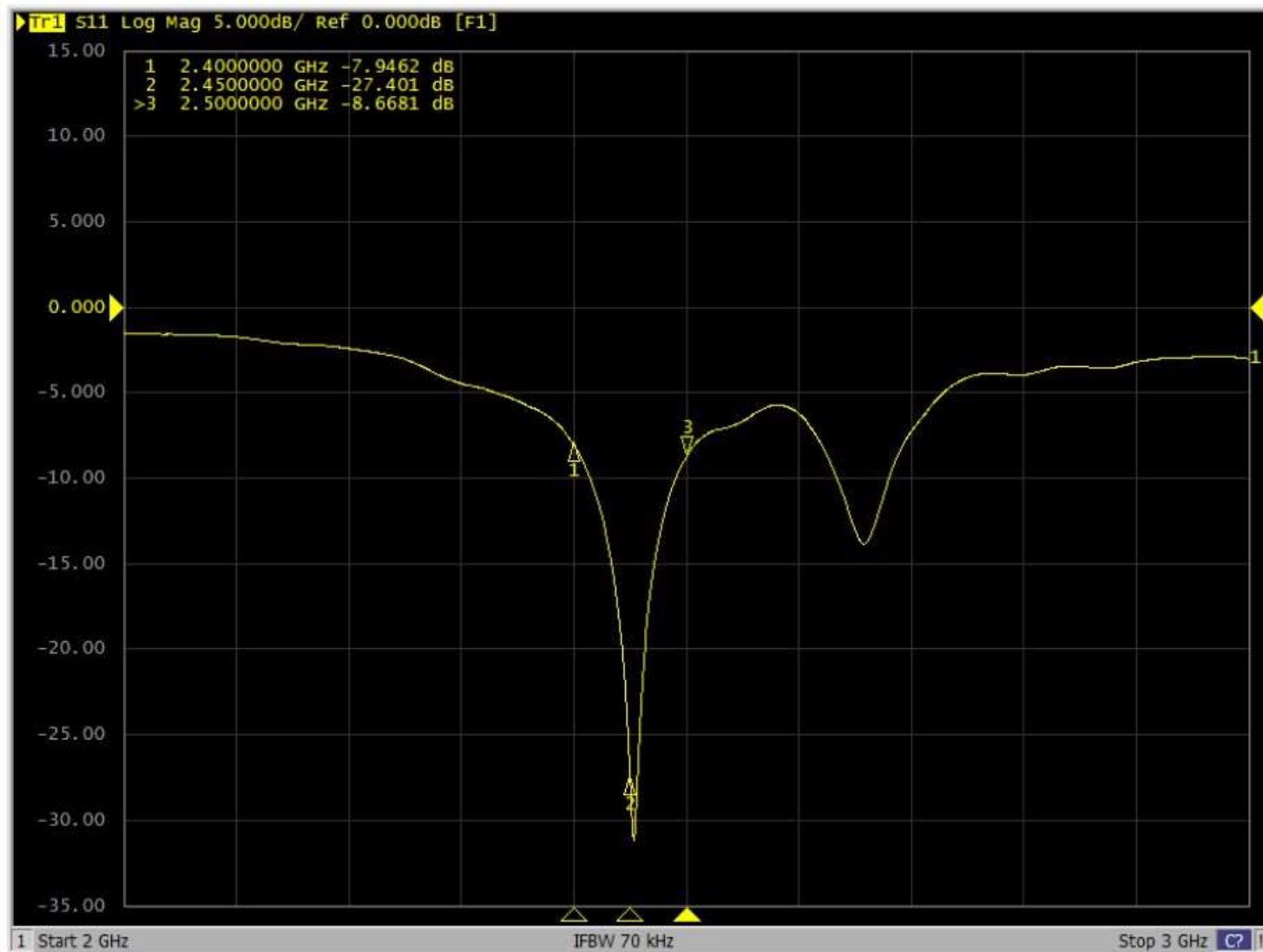
Date 2022/02/22

Author Mark

Environment



Antenna S11



Antenna Efficiency



Frequency (MHz)	2400	2450	2500
Efficiency (%)	30	39	30

Antenna Average Gain



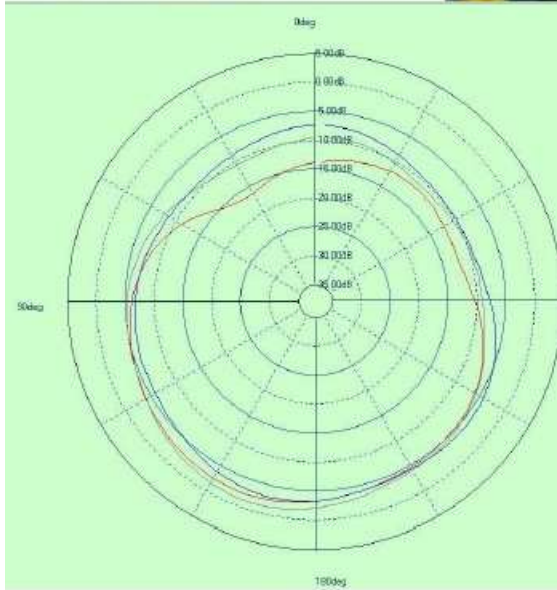
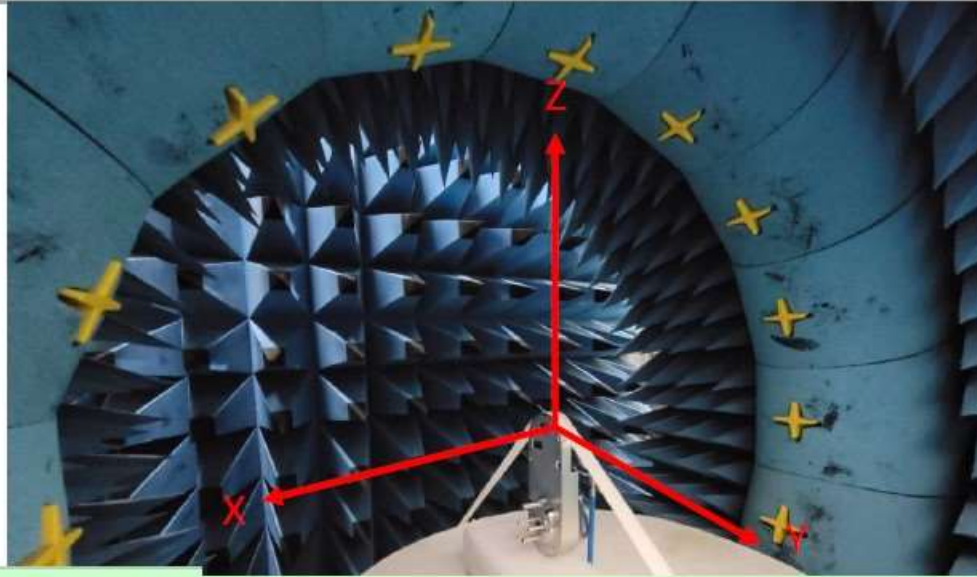
Frequency (MHz)	2400	2450	2500
Average Gain (dB)	-5.17	-3.98	-5.17

Antenna Peak Gain

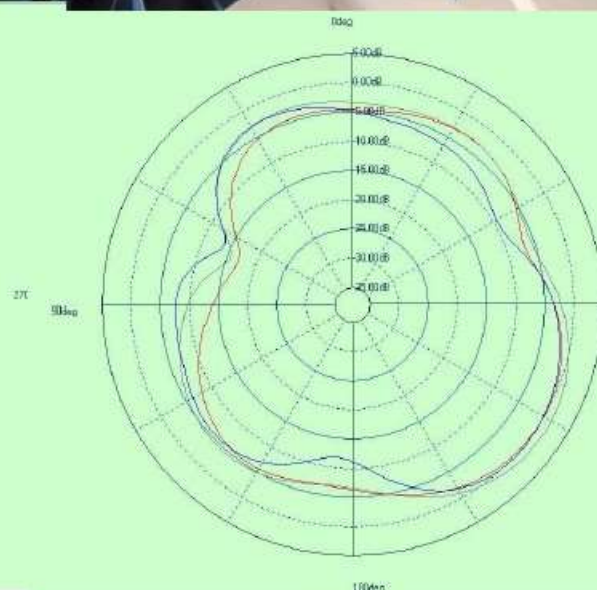


Frequency (MHz)	2400	2450	2500
Gain (dBi)	0.84	2.17	0.66

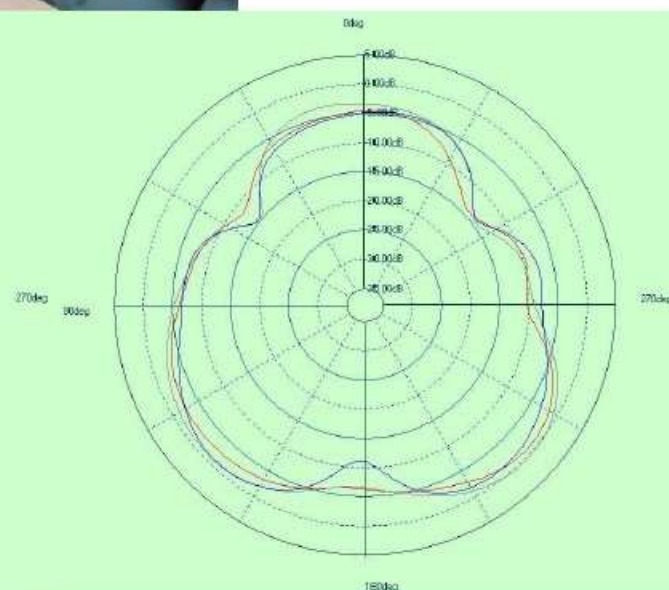
Antenna 7D Pattern



XY-Plane

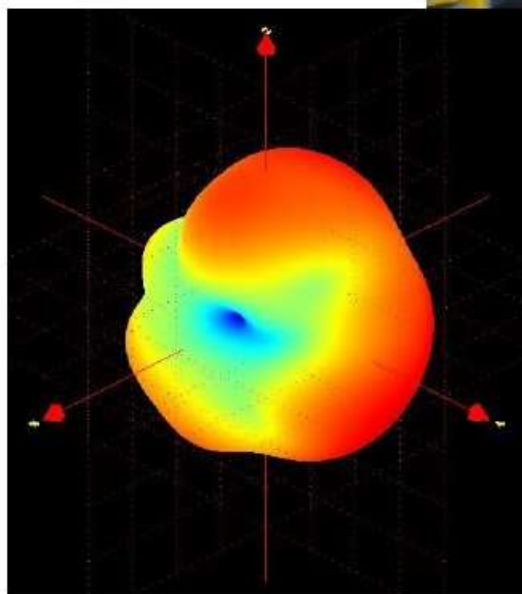
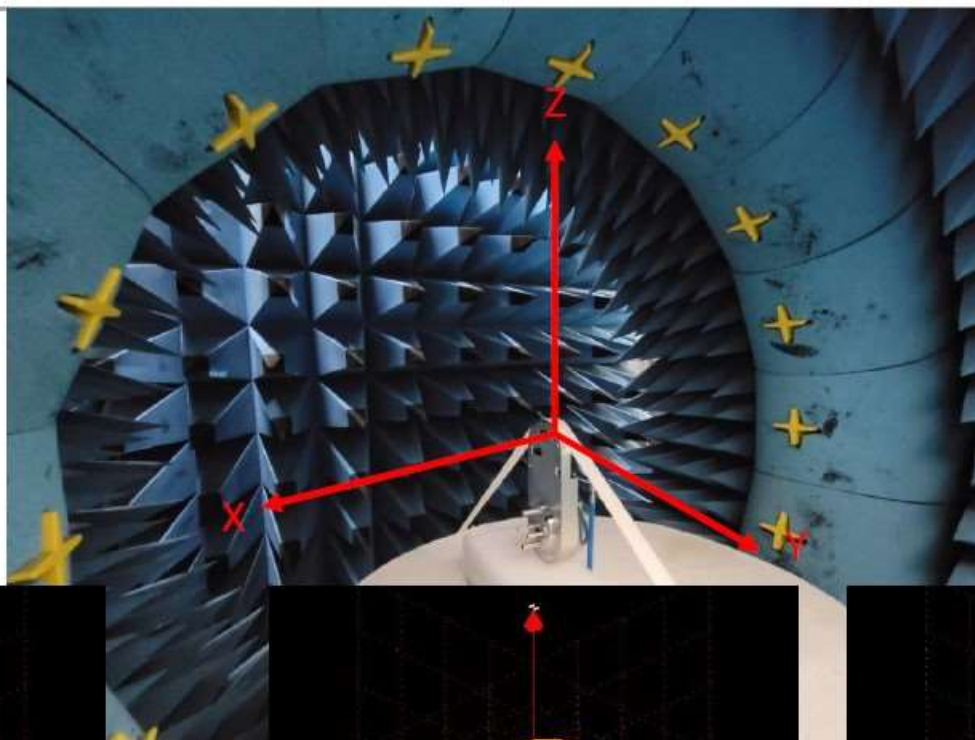


XZ-Plane

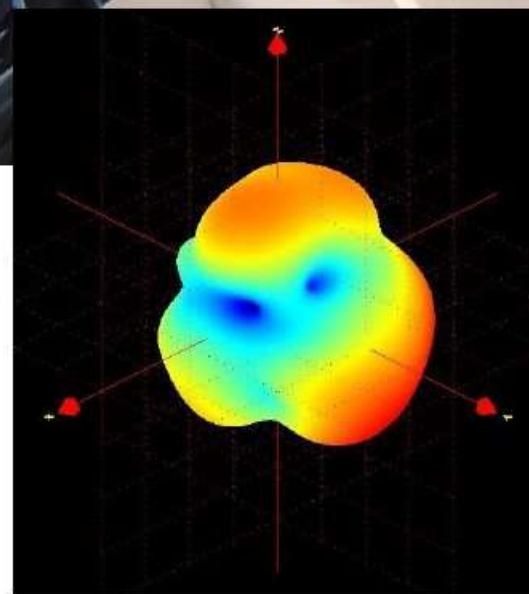


YZ-Plane

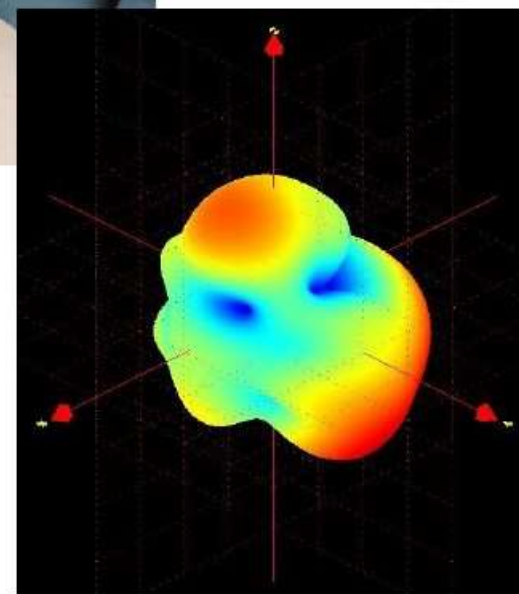
Antenna 8D Pattern



2400MHz

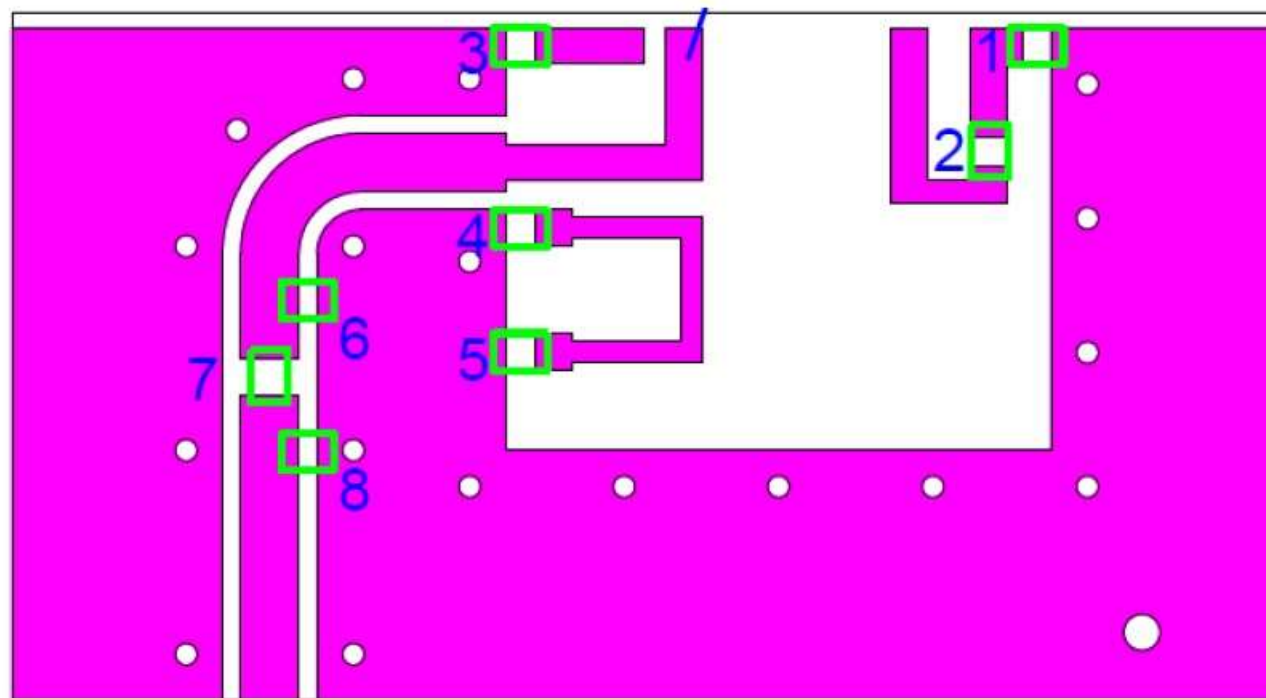


2450MHz



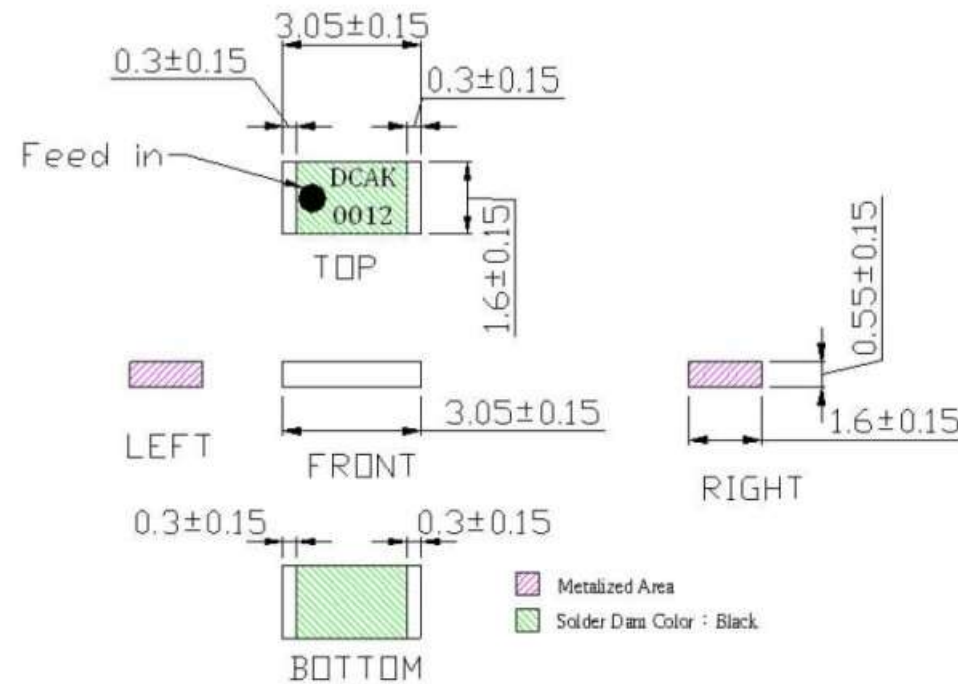
2500MHz

Matching Circuit



NO.	1	2	3	4	5	6	7	8
Description	1.8pF	1pF	N/A	N/A	N/A	1.2nH	1nH	N/A

Antenna Dimensions



Unit: mm

Summary

依客戶提供樣機，並依此環境進行WIFI天線調整，使用太盟DCAH0S04，經頻率及阻抗匹配調整後，天線效率約30~39%，其餘特性如上述報告所示，供客戶參考。