

Antenna Test Report

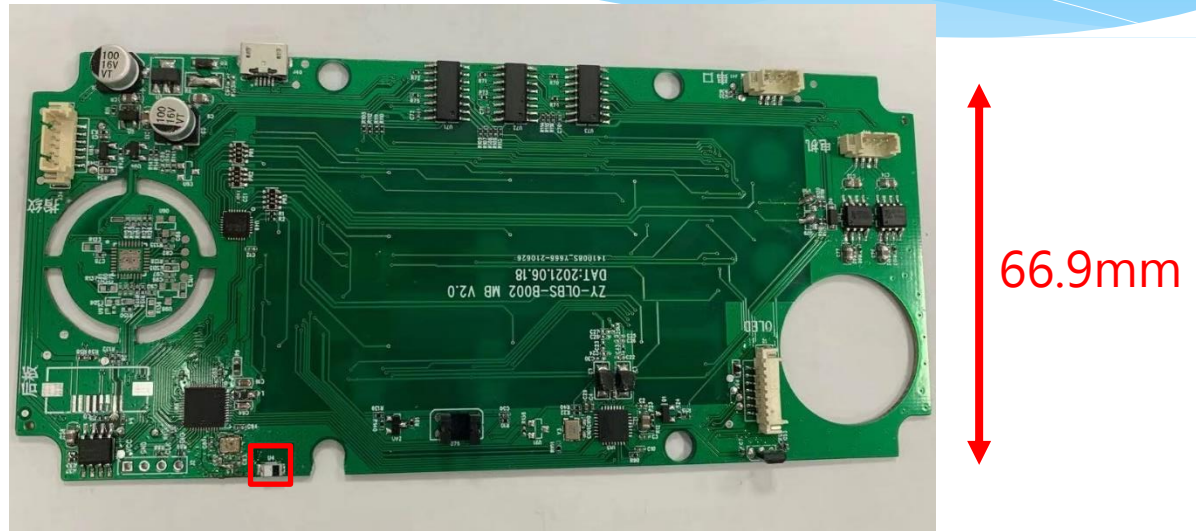
ZY-WER-G002 V1.0

Customer	中裕精密电子技术有限公司
Agent	新世
Project name	ZY-WER-G002
Model. IC	SYD8811
Model. ANT	WAN3216F245W36

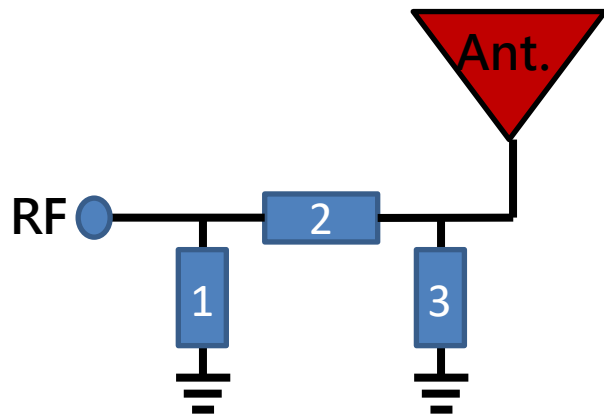
Brian 2021/08/10

Ant. Matching

- Antenna Placement



- Matching Circuit

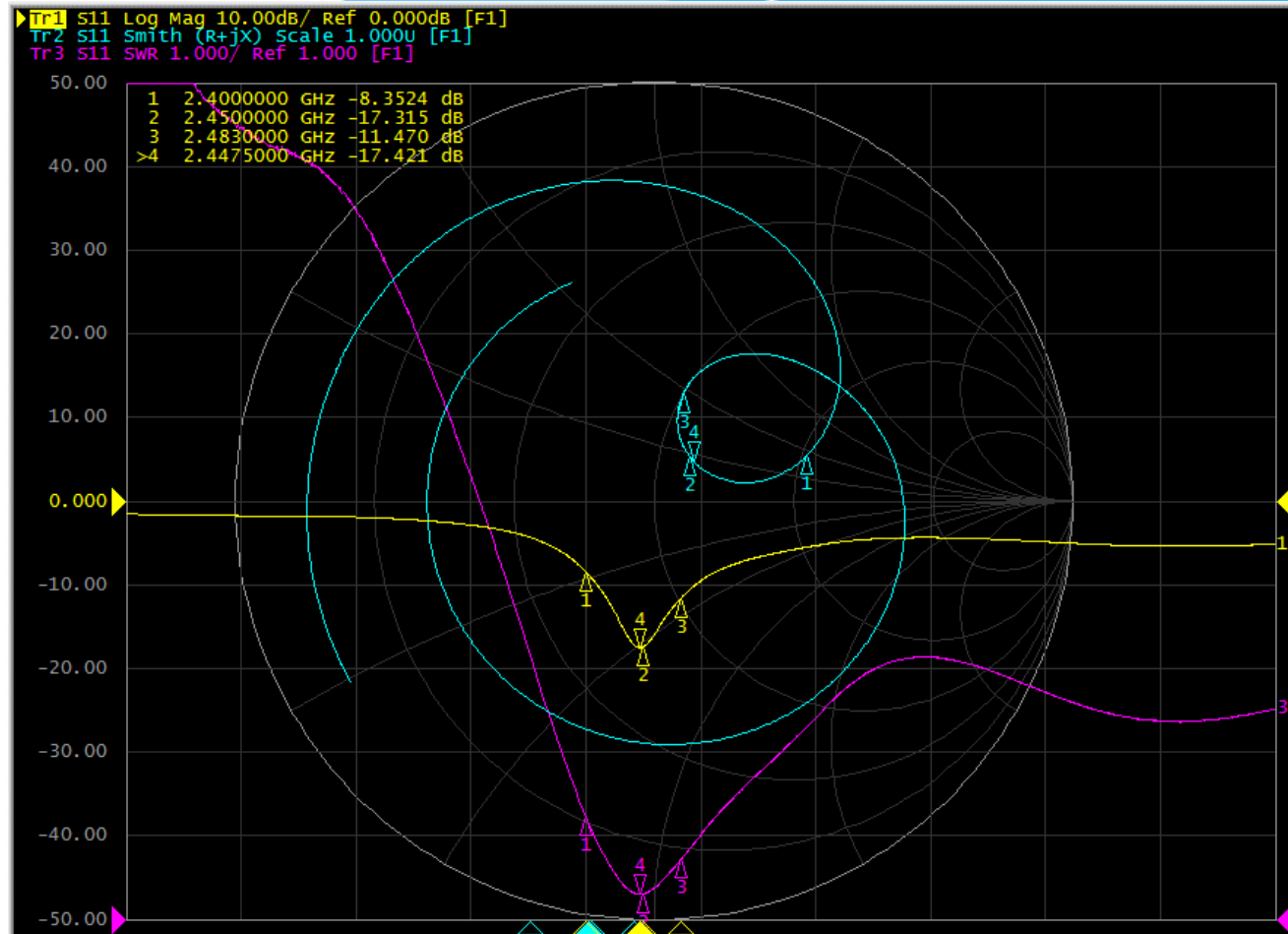


149.8mm

天線淨空區 : 6.3X5.2mm

	LC	P/N
Ant.	WAN3216F245W36	
1	2.2pF	Murata
2	3.6nH	Murata
3	NC	--

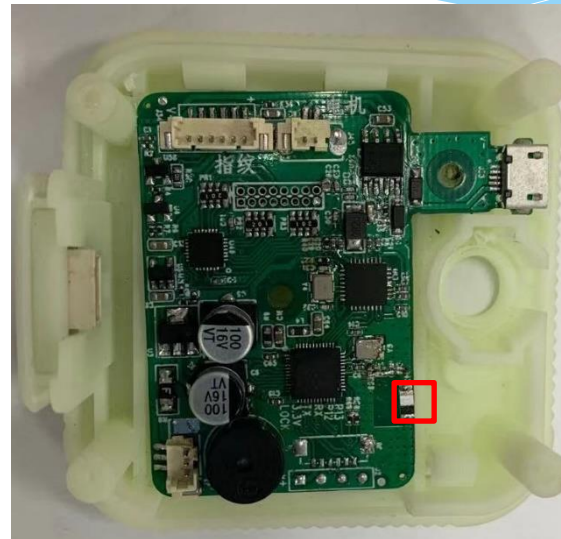
Ant. S11 Parameter-大板



Fre.(MHz)	2400	2450	2483
S11(dB)	-8.3	-17.3	-11.4

Ant. Matching

- Antenna Placement

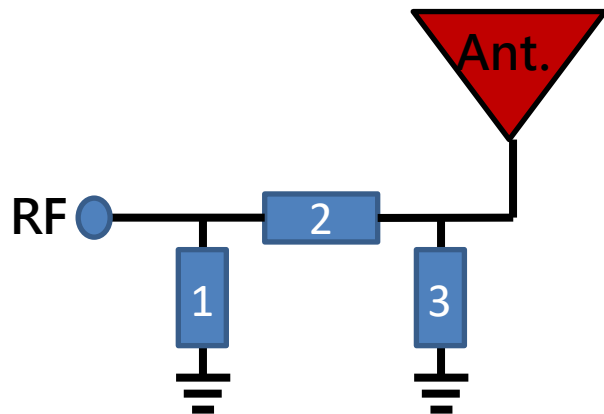


47.8mm

47.3mm

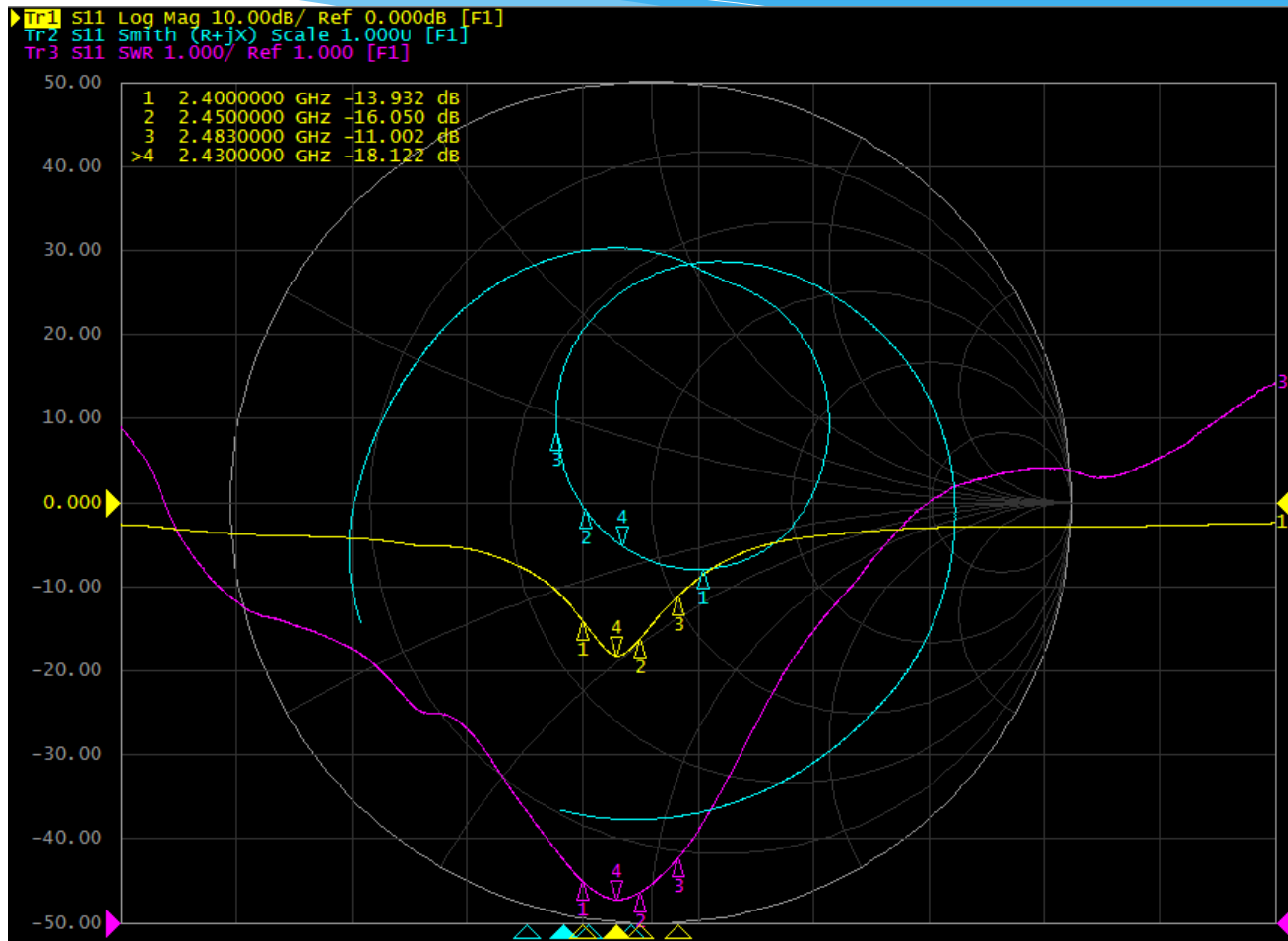
天線淨空區 : 6.2X5.2mm

- Matching Circuit



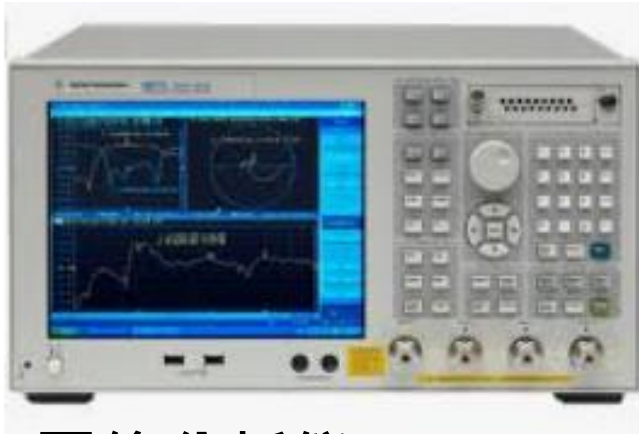
	LC	P/N
Ant.	WAN3216F245W36	
1	2.0pF	Murata
2	2.7nH	Murata
3	NC	--

Ant. S11 Parameter-小板



Fre.(MHz)	2400	2450	2483
S11(dB)	-13.9	-16.0	-11.0

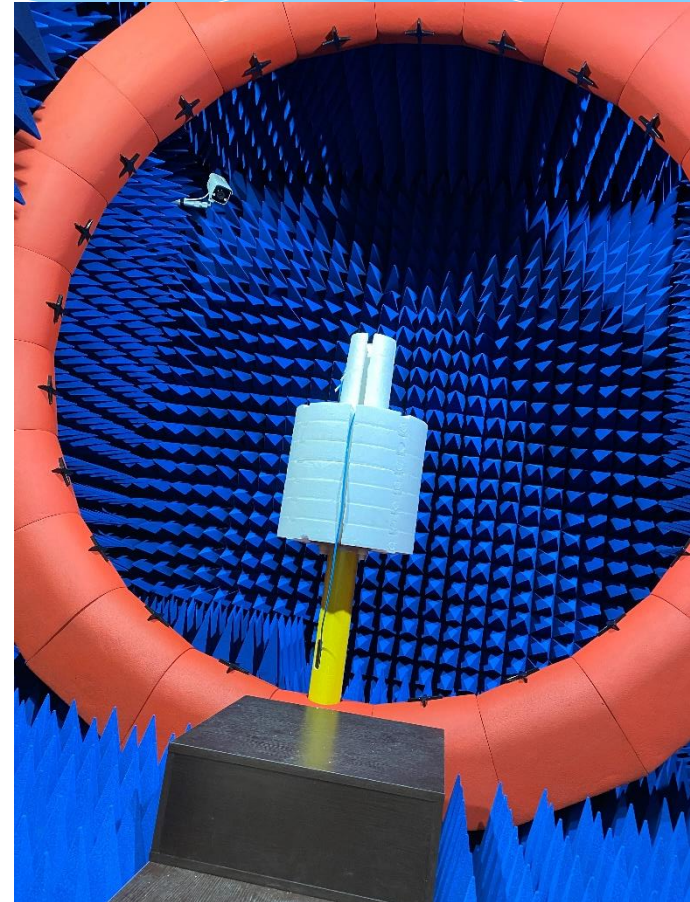
Equipment of OTA test



网络分析仪 E5071C



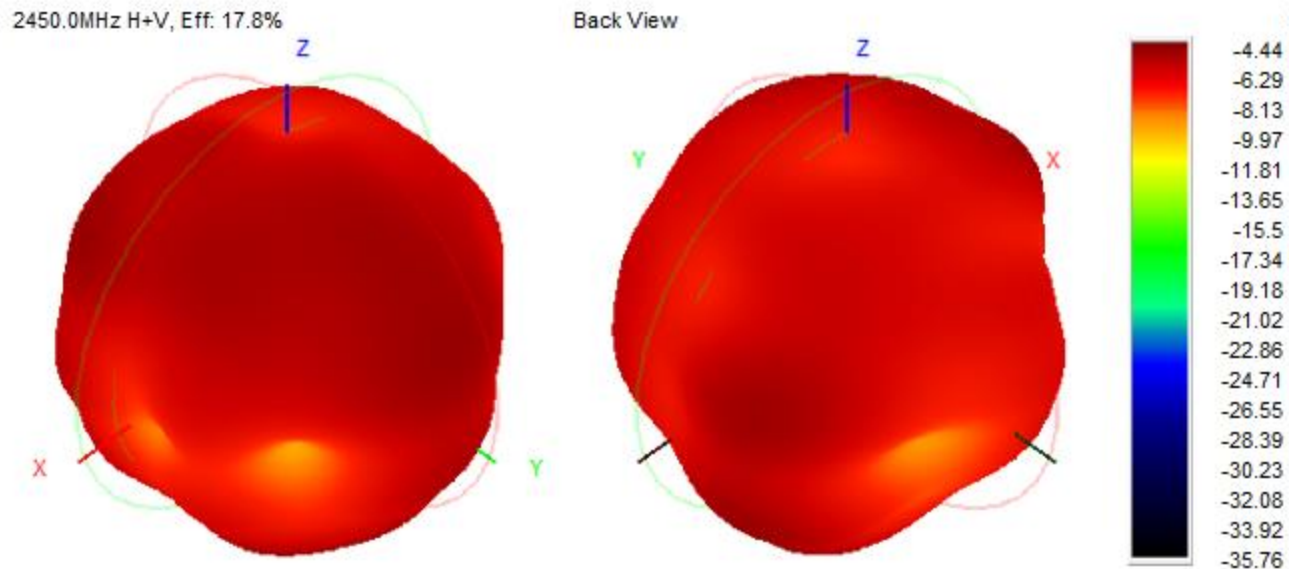
综合测试仪 CMW500



微波暗室 FTM-24D多探头

Ant. Gain Pattern @2.45GHz(万诚)

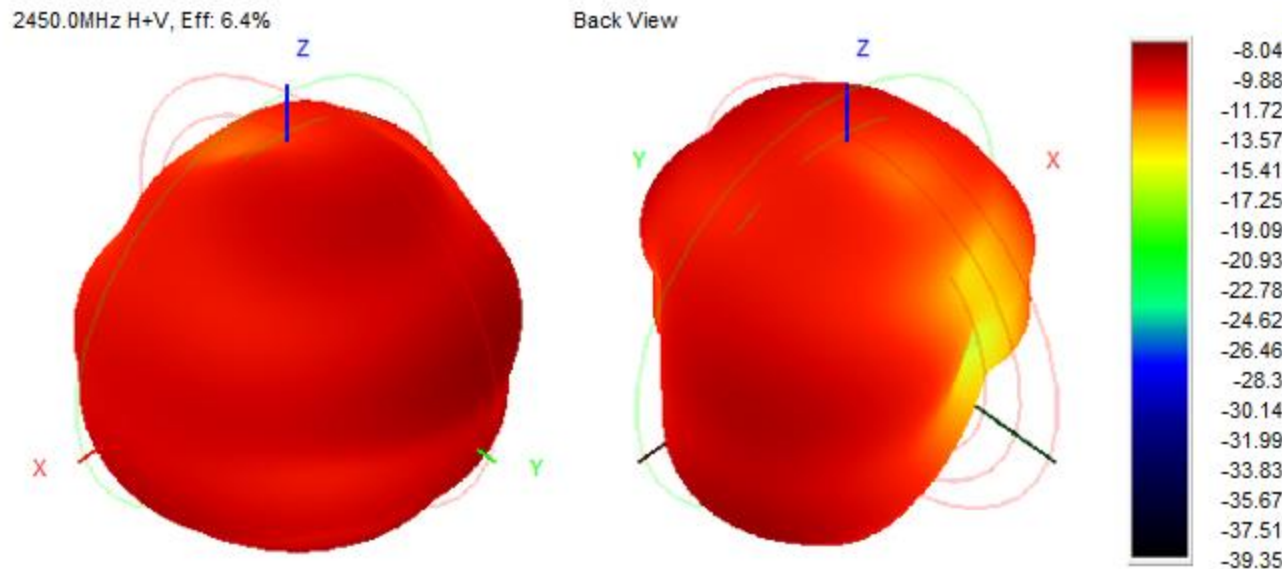
- Passive Test (free space) 大板



Fre.(MHz)	2400	2450	2500
Gain(dBi)	-5.46	-4.44	-5.68
Efficiency(%)	14.14	17.78	14.07

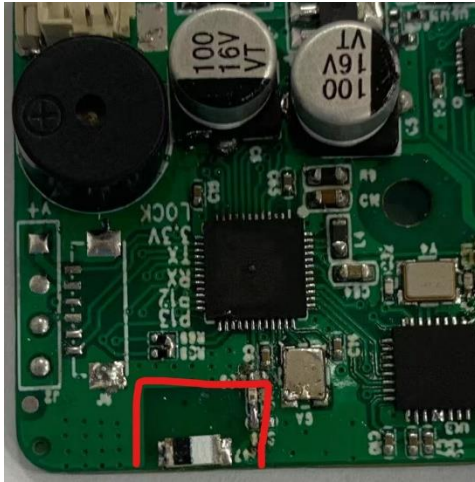
Ant. Gain Pattern @2.45GHz(万诚)

- Passive Test (free space) 小板



Fre.(MHz)	2400	2450	2500
Gain(dBi)	-10.26	-8.04	-9.20
Efficiency(%)	3.37	6.44	4.89

结论



- 單極被地包住效率會很差,建議改成雙極