

Antenna Test Report

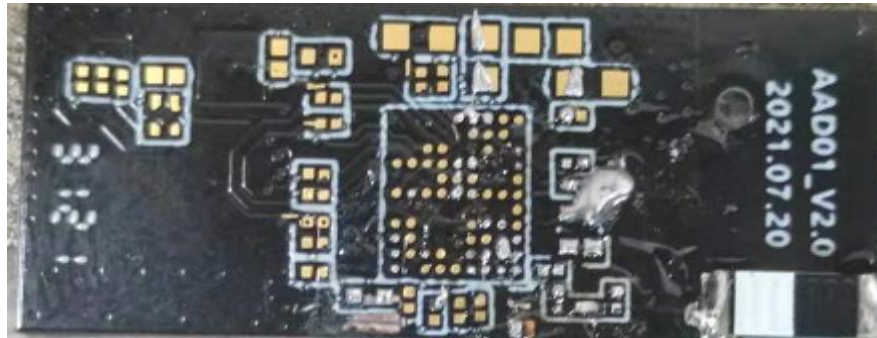
AAD01M V1.0

Customer	亚昱
Agent	新世
Project name	AAD01M
Model. IC	AB1565M
Model. ANT	WAN5020D245M05

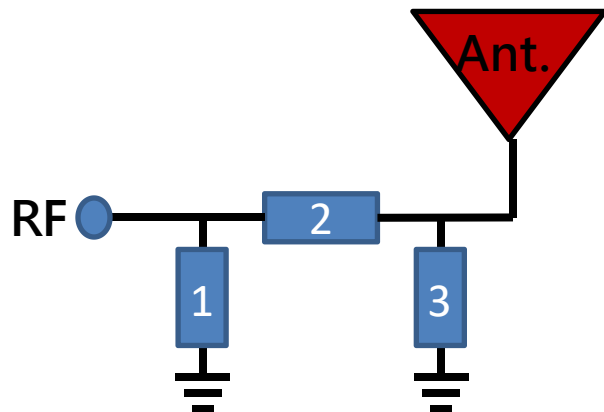
Fanson 2022/01/04

Ant. Matching

- Antenna Placement

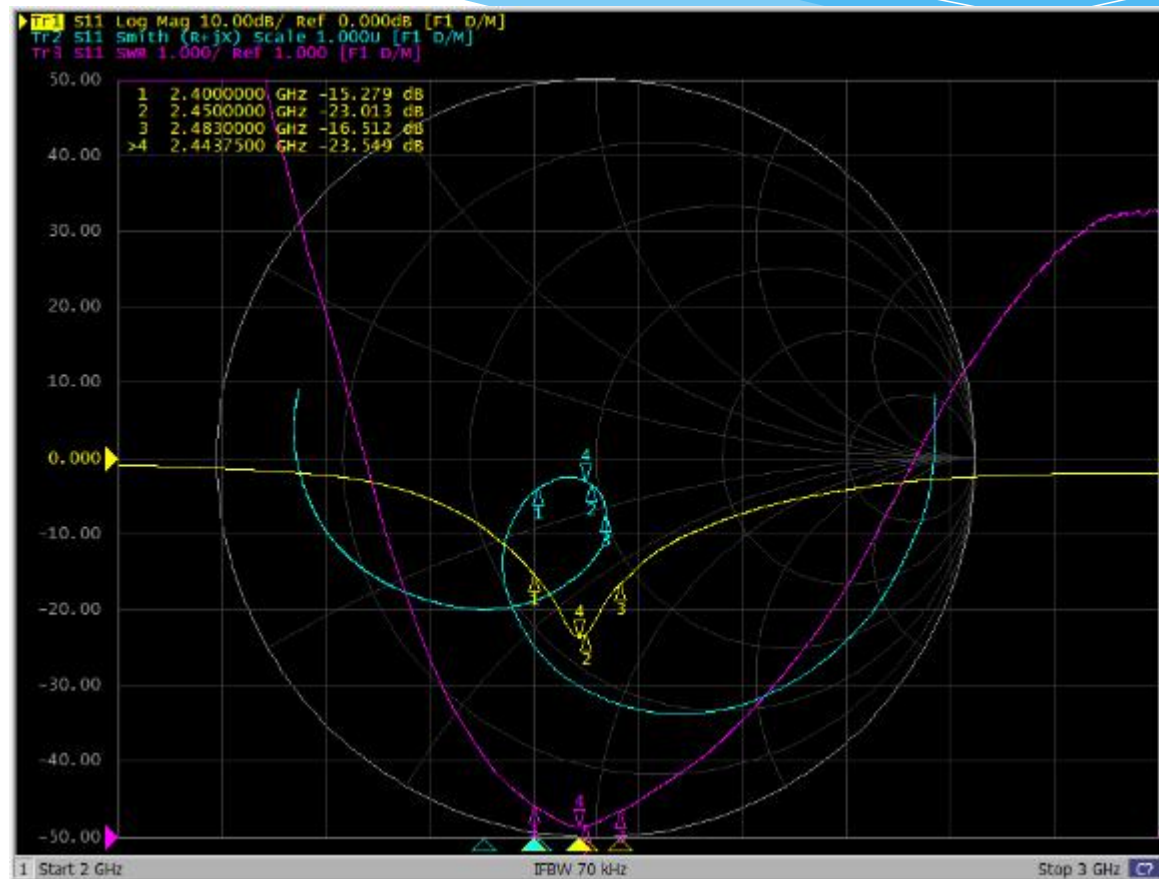


- Matching Circuit



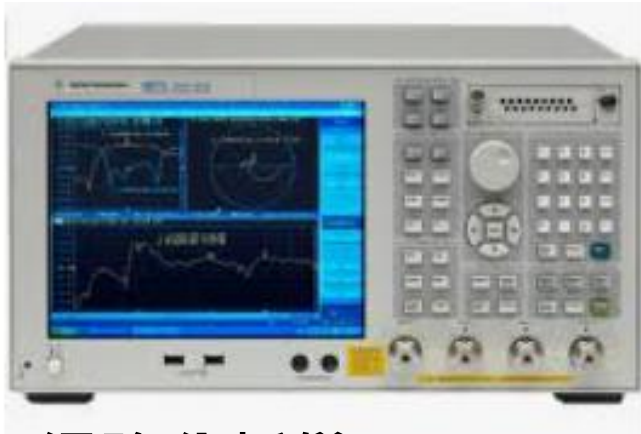
	LC	P/N
Ant.	WAN5020D245M05	
1	NC	--
2	1.3nH	Murata
3	NC	Murata

Ant. S11 Parameter



Fre.(MHz)	2400	2450	2483
S11(dB)	-15.2	-23.0	-16.5

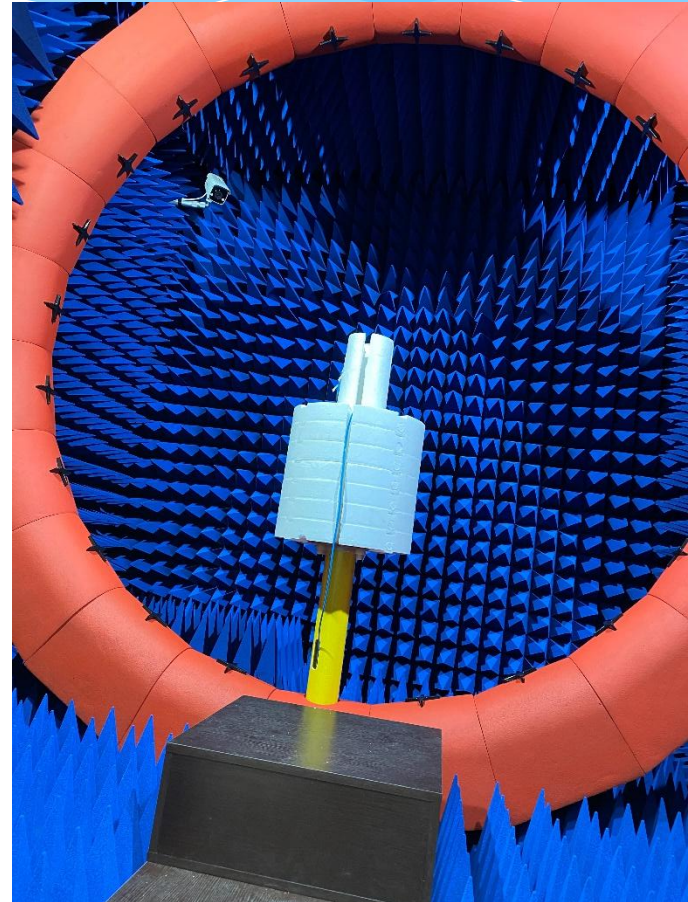
Equipment of OTA test



網路分析儀 E5071C



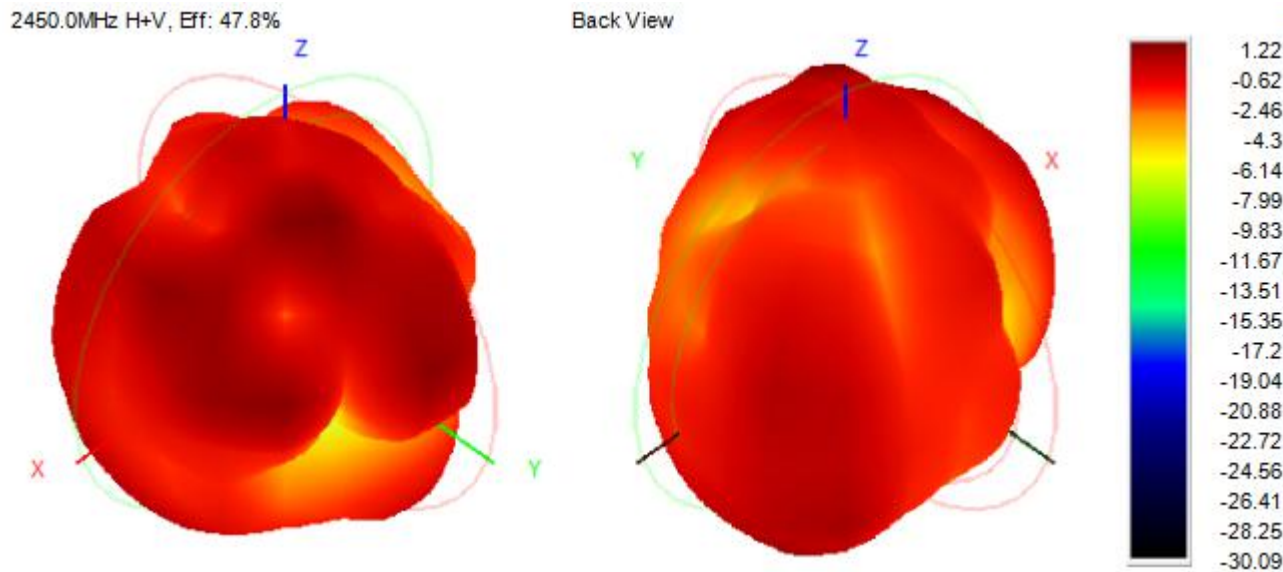
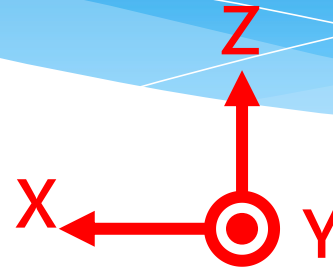
綜合測試儀 CMW500



微波暗室 FTM-24D多探頭

Ant. Gain Pattern

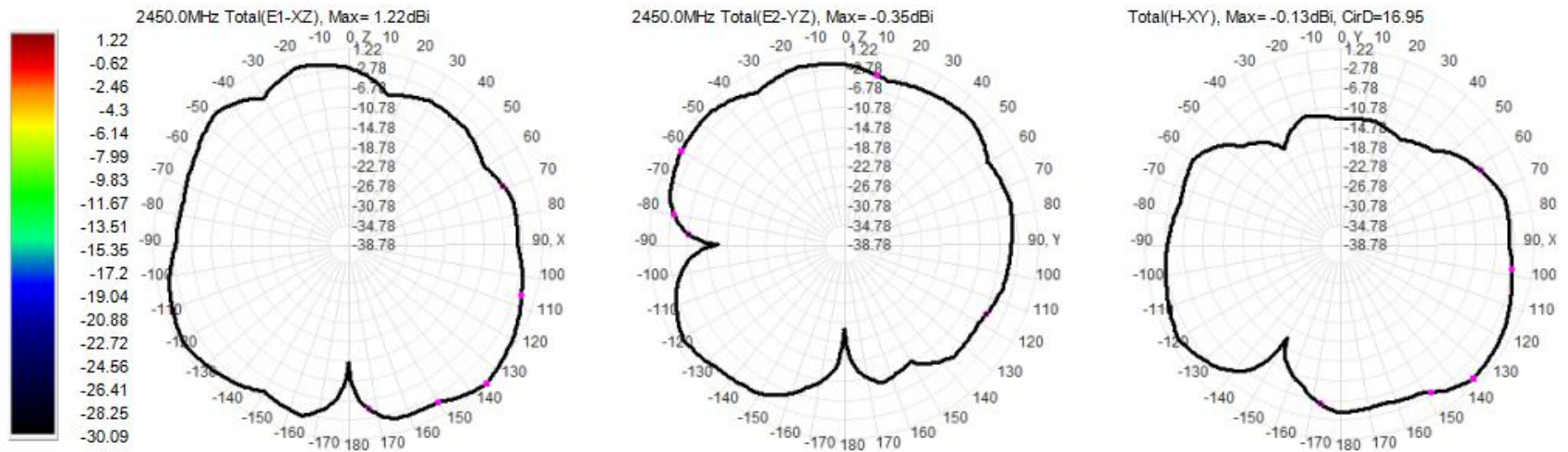
- Free computer



Fre.(MHz)	2400	2450	2500
Gain(dBi)	1.01	1.22	1.28
Efficiency(%)	42.92	47.83	45.21

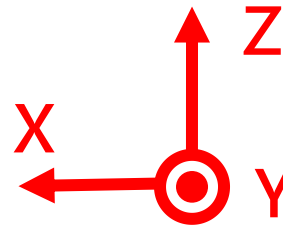
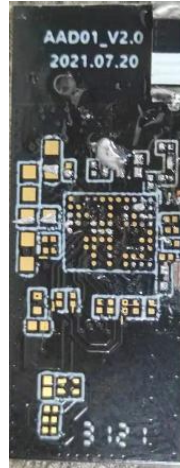
Ant. Gain Pattern2D

- Free computer



Ant. Gain Pattern

- Active Test (Free computer)



	CH.	TIS(dBm)	TRP (dBm)
BT	0	4.21	-91.95
	39	3.86	-88.15
	78	3.66	-90.24

Real test

- 測試環境：空曠停車場
- 測試手機：耳机，dongle
- 測試距離：5米
- 搗耳測試：单耳OK



结论

- **RF**数据都较好，天线效率也很好，有源数据也好，但实测效果过差，请芯片原厂协助排查哪里的问题。