

Antenna Test Report

扫读笔 V1.0

Customer	Inka
Agent	Gieten
Project name	Scanning pen
Model. IC	--
Model. ANT	2.4G

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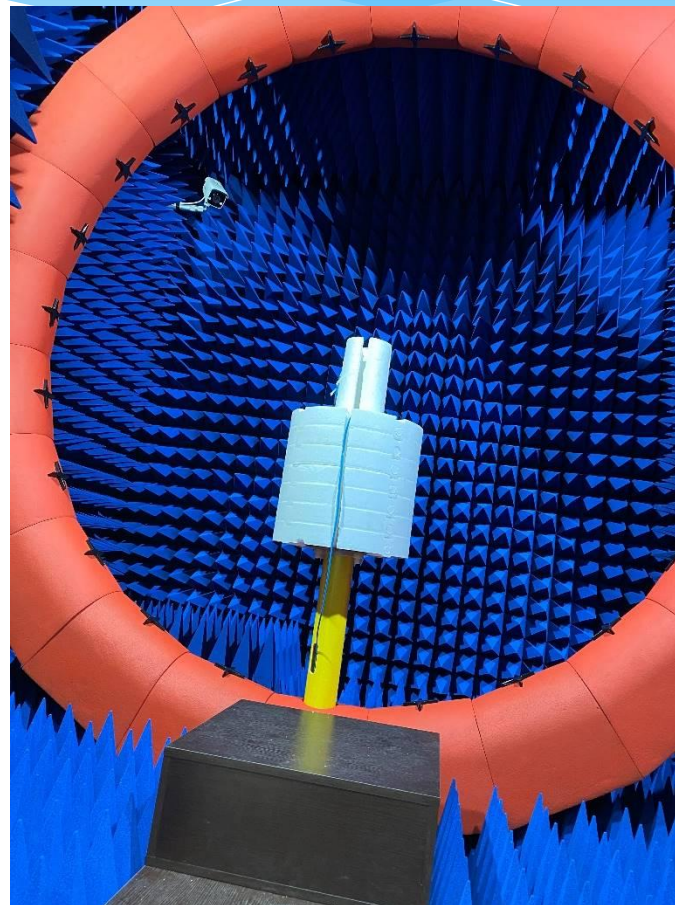
Equipment of OTA test



網路分析儀 E5071C



綜合測試儀 CMW500

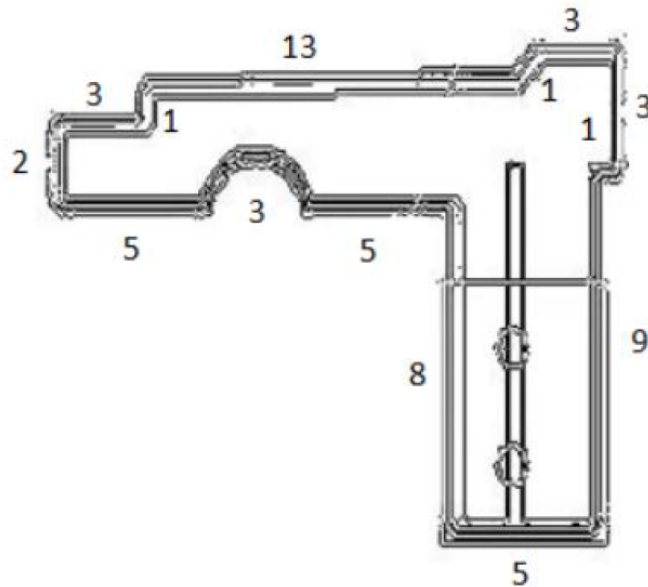


微波暗室 FTM-24D多探頭

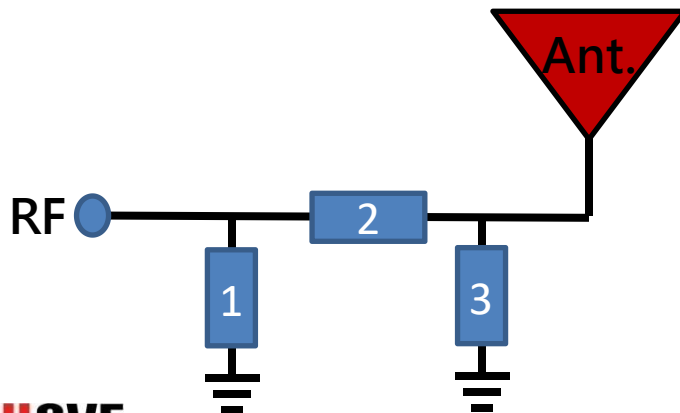
Ant. Matching

- Antenna size

unit(mm)



- Matching Circuit



	LC	P/N
Ant.	2.4G	
1	2.4pF	Murata
2	1.2nH	Murata
3	NC	--

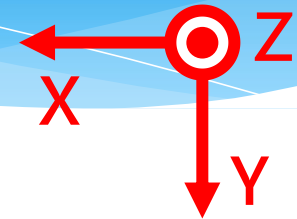
Ant. S11 Parameter



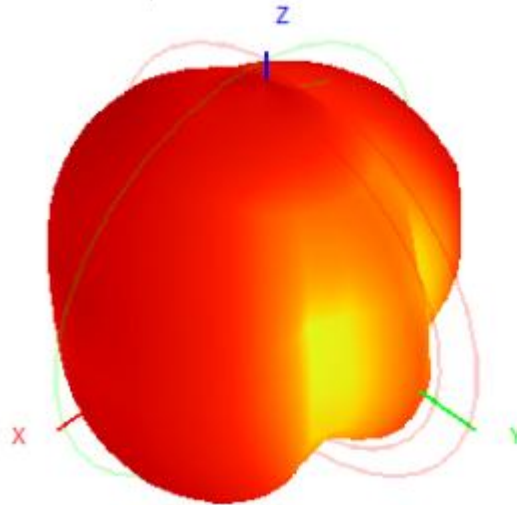
Fre.(MHz)	2400	2450	2483
S11(dB)	-15.9	-22.2	-19.3

Ant. Gain Pattern @2.4GHz

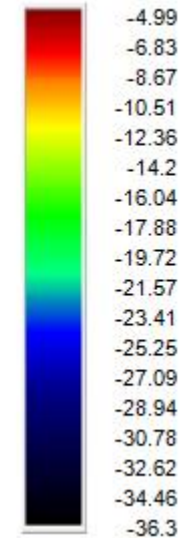
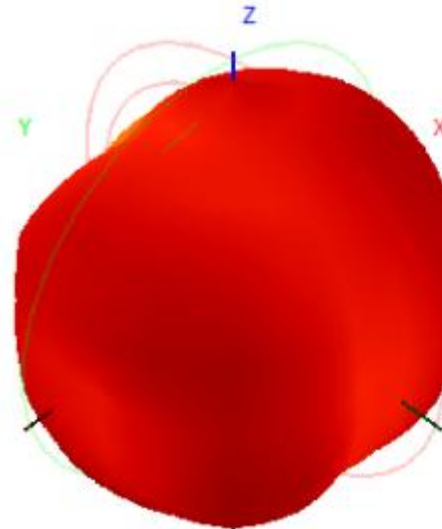
- Passive Test (free space)



2450.0MHz H+V, Eff: 13.4%



Back View



Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-7.29	-6.42	-5.77	-5.22	-4.96	-4.99	-5.36	-5.98	-6.62	-7.30	-8.32
Efficiency (%)	8.20	9.97	11.55	12.91	13.47	13.36	12.34	10.78	9.13	7.56	6.08

Ant. Gain Pattern @2.4GHz

- Active Test (free space)

	channel	TRP(dBm)	TIS(dBm)
WiFi b-11M	1	9.06	-83.6
	6	10.14	-83.48
	11	9.55	-84.3

结论

- 待测试验证反馈