

Antenna Test Report

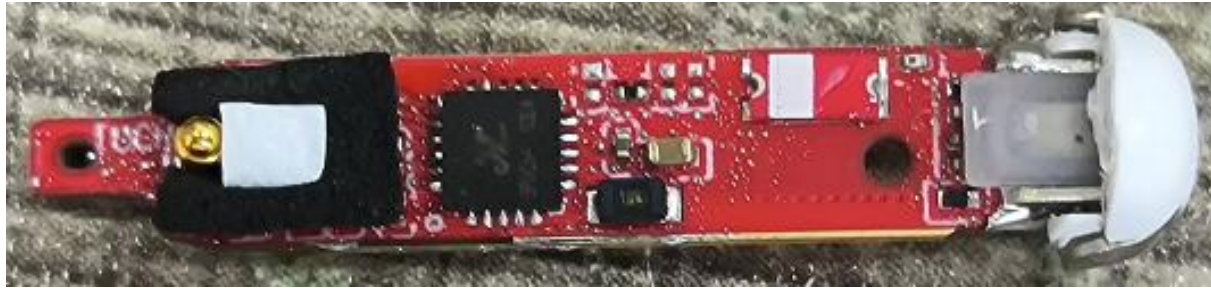
G129 V1.0

Customer	大康
Agent	新世
Project name	G129
Model. IC	杰理
Model. ANT	KBAN3216G245H01

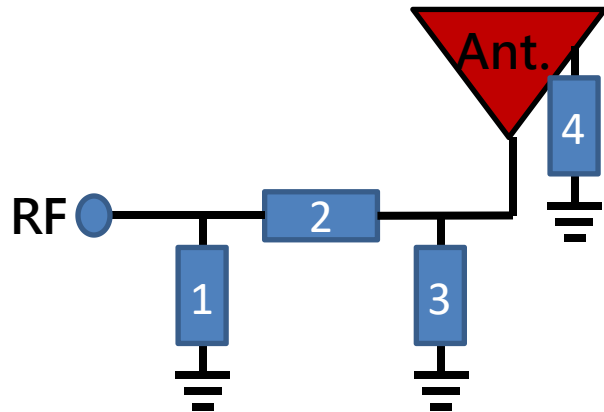
Fanson 2022/12/02

Ant. Matching

- Antenna Placement



- Matching Circuit



	LC	P/N
Ant.	KBAN3216G245H01	
1	NC	--
2	0R	--
3	1p	--
4	1nH	

Ant. S11 Parameter (ANT2)



Fre.(MHz)	2400	2450	2483
S11(dB)	-11.5	-17.0	-18.3

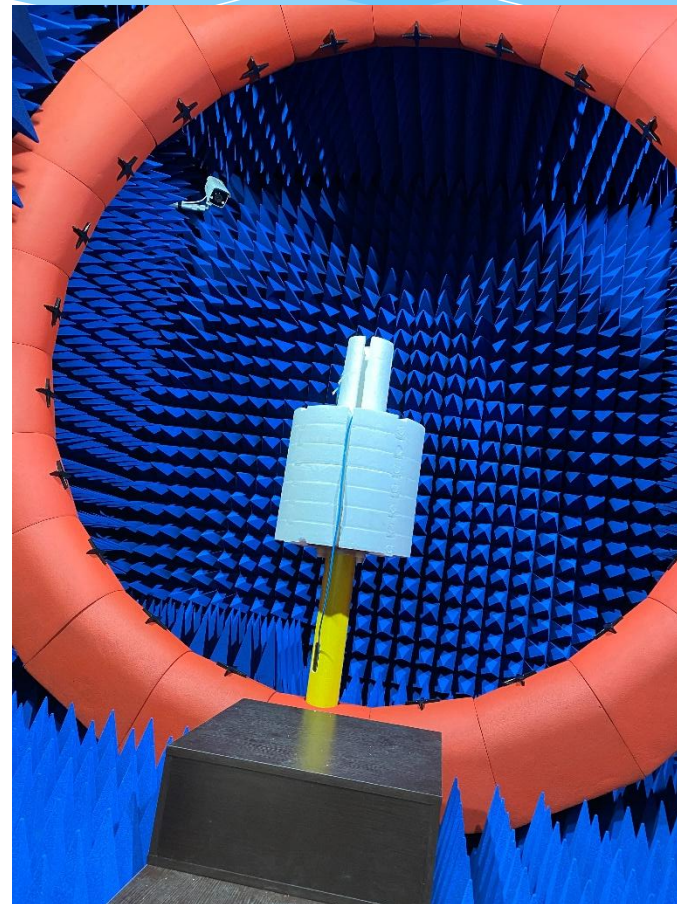
Equipment of OTA test



網路分析儀 E5071C



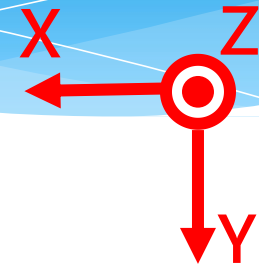
綜合測試儀 CMW500



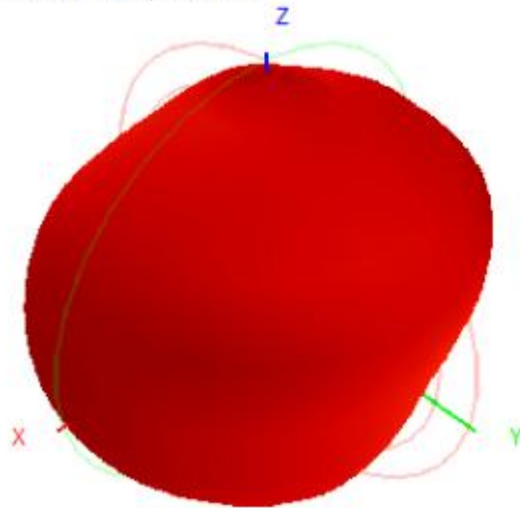
微波暗室 FTM-24D多探頭

Ant. Gain Pattern @2.4GHz

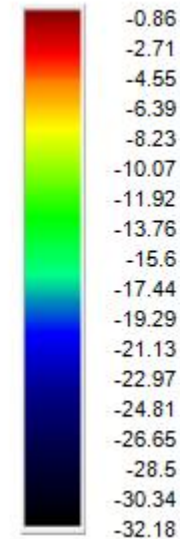
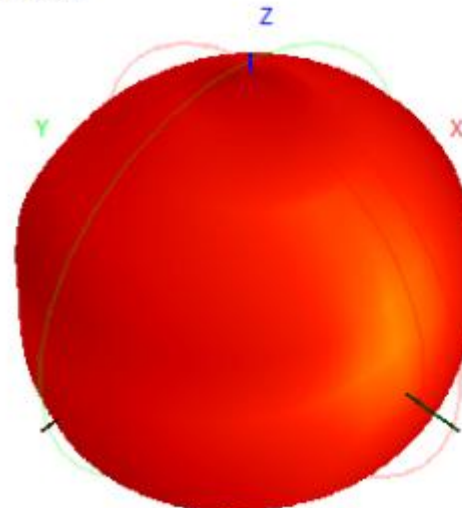
- Active Test



2450.0MHz H+V, Eff: 40.3%



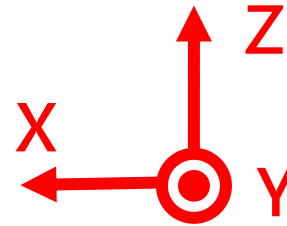
Back View



Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.51	-4.47	-4.39	-4.27	-4.13	-3.95	-3.82	-3.73	-3.68	-3.74	-3.92
Gain (dBi)	-0.85	-0.98	-1.02	-0.95	-0.89	-0.86	-0.96	-0.94	-0.73	-0.54	-0.42
Efficiency (%)	35.43	35.73	36.36	37.42	38.66	40.28	41.47	42.35	42.89	42.30	40.55

Ant. Gain Pattern @2.45GHz (7月18号)

- Active Test



	CH.	TIS(dBm)	TRP (dBm)
BT	0	-88.43	2.57
	39	-87.74	3.01
	78	-88.46	2.96

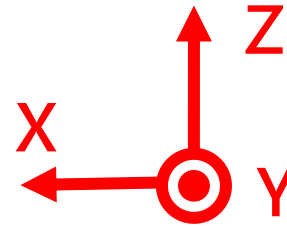
L

	CH.	TIS(dBm)	TRP (dBm)
BT	0	-90.44	2.69
	39	-90.59	3.59
	78	-90.9	4.1

R

Ant. Gain Pattern @2.45GHz (12月2号)

- Active Test



	CH.	TIS(dBm)	TRP (dBm)
BT	0	-89.99	2.64
	39	-88.83	3.4
	78	-88.32	4.2

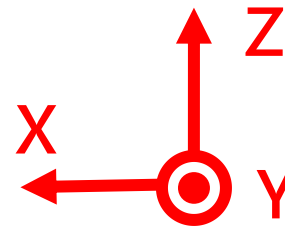
L

	CH.	TIS(dBm)	TRP (dBm)
BT	0	-89.45	2.04
	39	-88.91	3.08
	78	-87.03	3.74

R

Ant. Gain Pattern @2.45GHz

- With Head



	CH.	TIS(dBm)	TRP (dBm)
BT	0	-83.94	-2.83
	39	-83.49	-1.79
	78	-81.37	-2.65

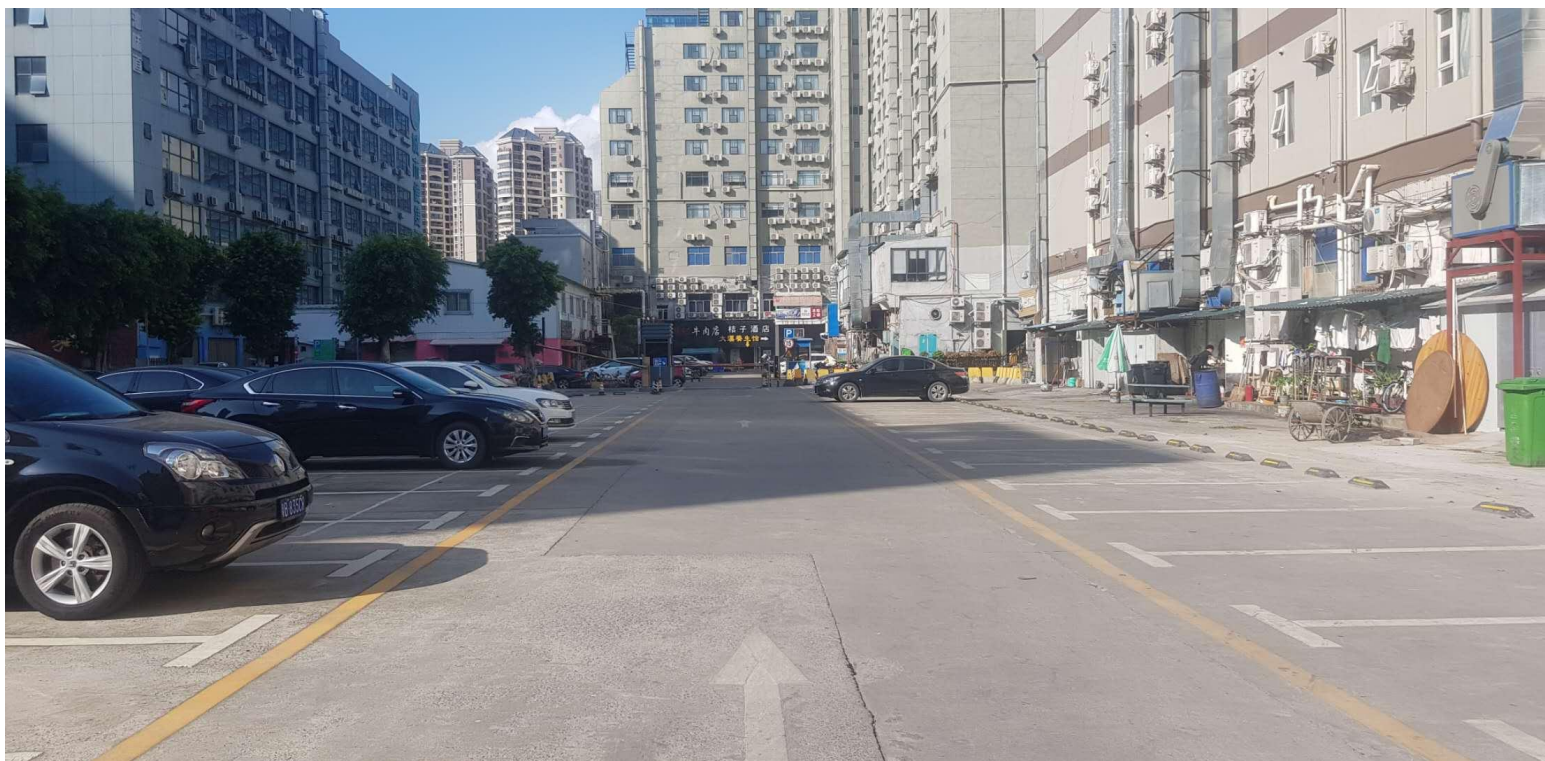
L

	CH.	TIS(dBm)	TRP (dBm)
BT	0	-82.2	-5.21
	39	-81.45	-5.7
	78	-81.38	-5.9

R

Real test

- 測試環境：空曠停車場
- 測試手機：紅米K30
- 測試距離：10米
- 摑耳測試：OK



结论

- 待客户测试评估。