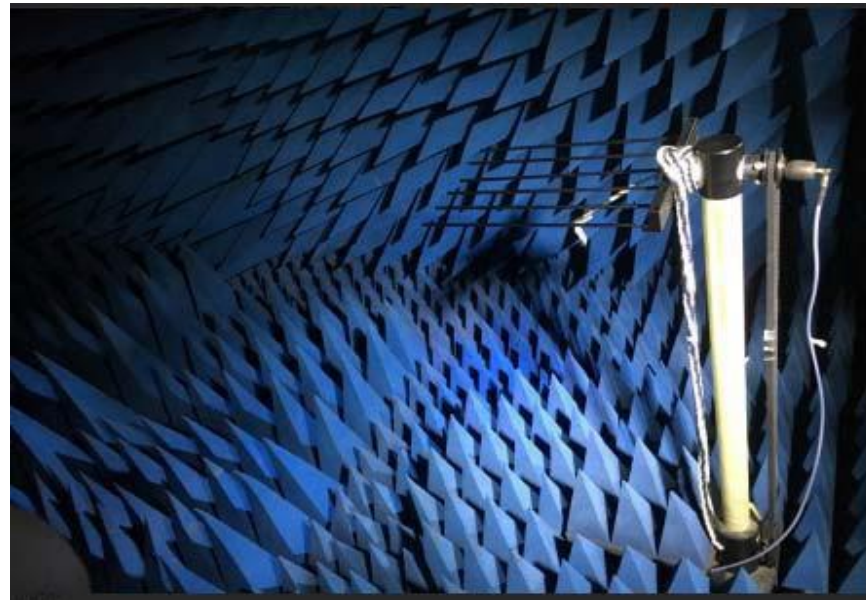

Antenna test report

customer	Arashi	project	
Frequency band	Dual-band 2.4G/5G	version	V1.0
Antenna engineer	Liu Yunhai	date	2020.03.10

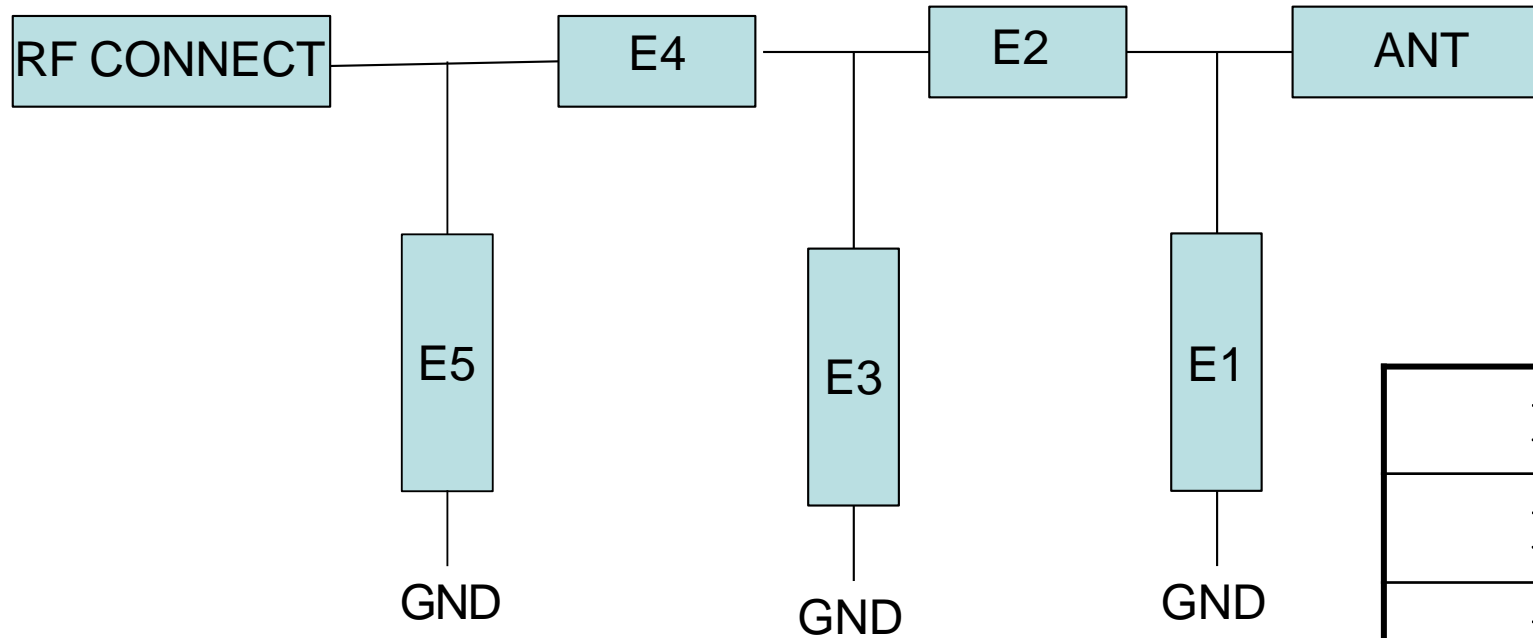
1. Test equipment

Vector network analyzer	Agilent E5071B
Dark room	OTA-500
tester	Liu Yunhai



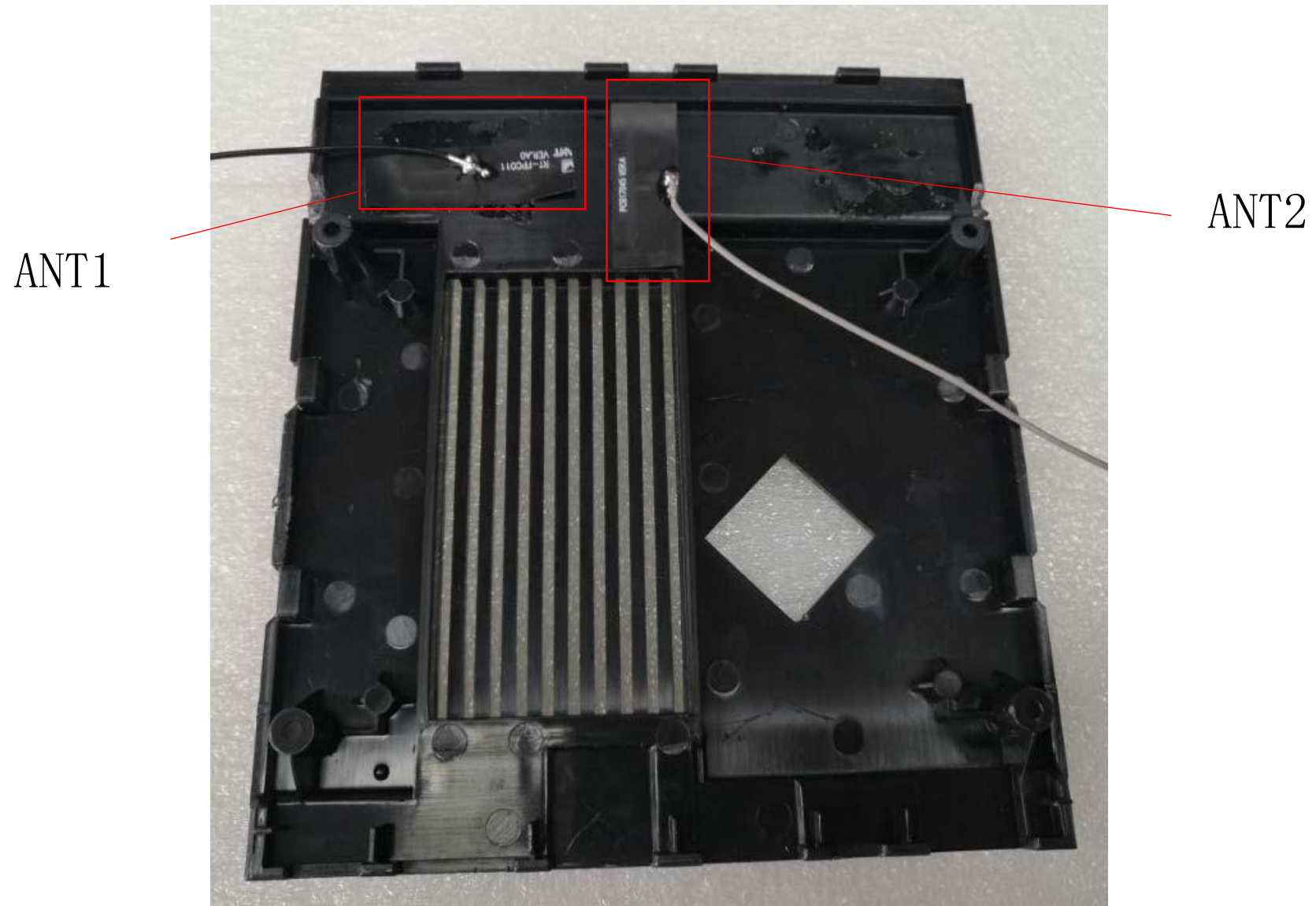
2. Matching circuit

The match has not changed, according to the motherboard original match



E1	vacancy
E2	0 Ω
E3	vacancy
E4	0 Ω
E5	vacancy

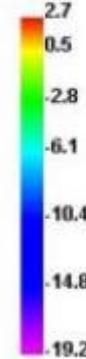
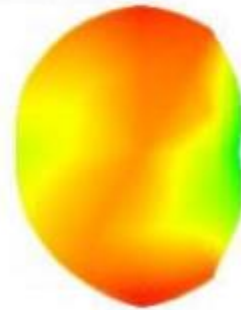
3. Antenna object



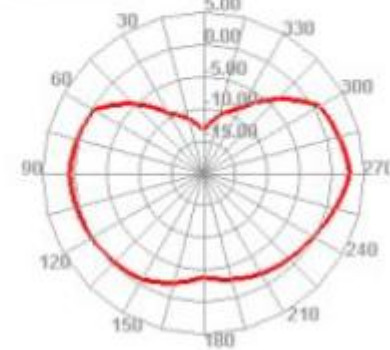
4.WIFI 2.4G antenna gain/efficiency /3D Apple chart

Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.51	1.99
2410	55.27	2.79
2420	52.2	2.48
2430	56.41	2.66
2440	54.39	2.01
2450	51.05	2.74
2460	55.46	3.21
2470	55.53	3.15
2480	51.72	3.01
2490	53.44	3.1
2500	51.41	3

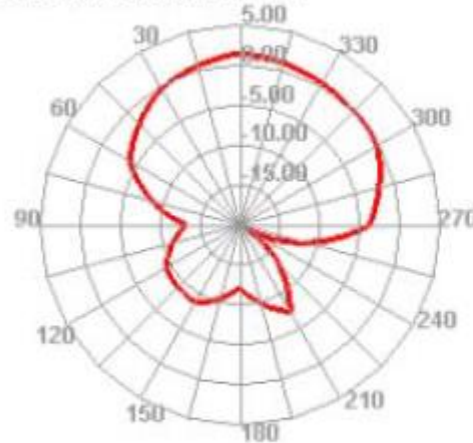
2450.000MHz



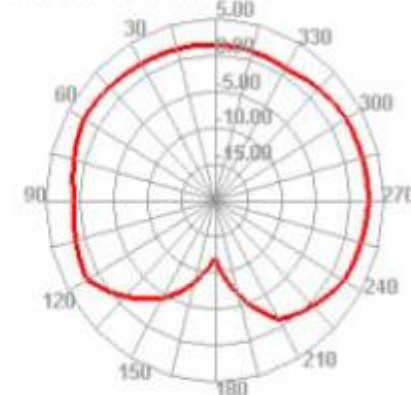
2450.000MHz H



2450.000MHz E1

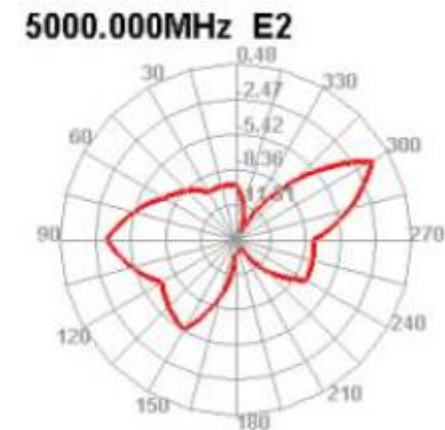
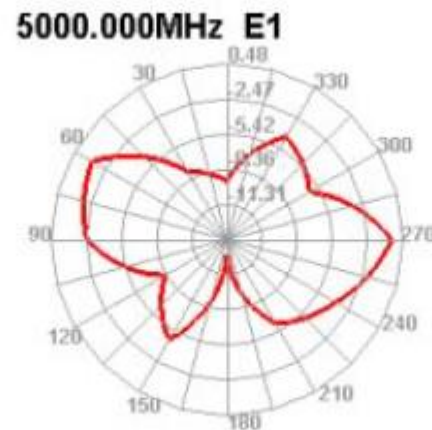
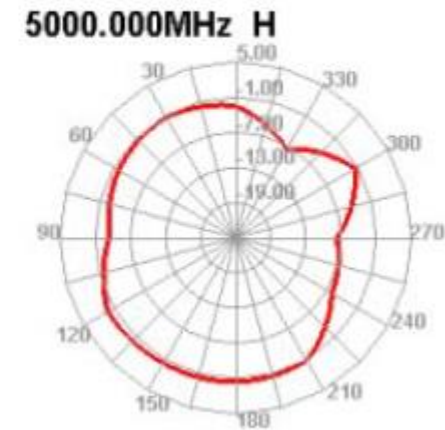
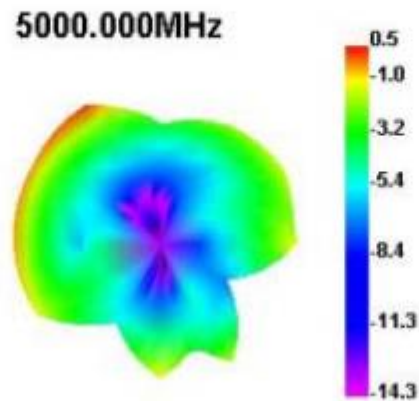


2450.000MHz E2



6.WIFI 5.8G antenna gain/efficiency /3D Apple chart

Freq (MHz)	Effi (%)	Gain (dBi)
5000	40.3	0.48
5100	38.9	0.34
5200	39.95	-0.34
5300	40.48	-0.55
5400	41.81	-0.03
5500	41.54	-1.4
5600	40.53	-2.29
5700	39.26	-2.44
5800	37.42	-0.13



Thanks !