

# Antenna Report

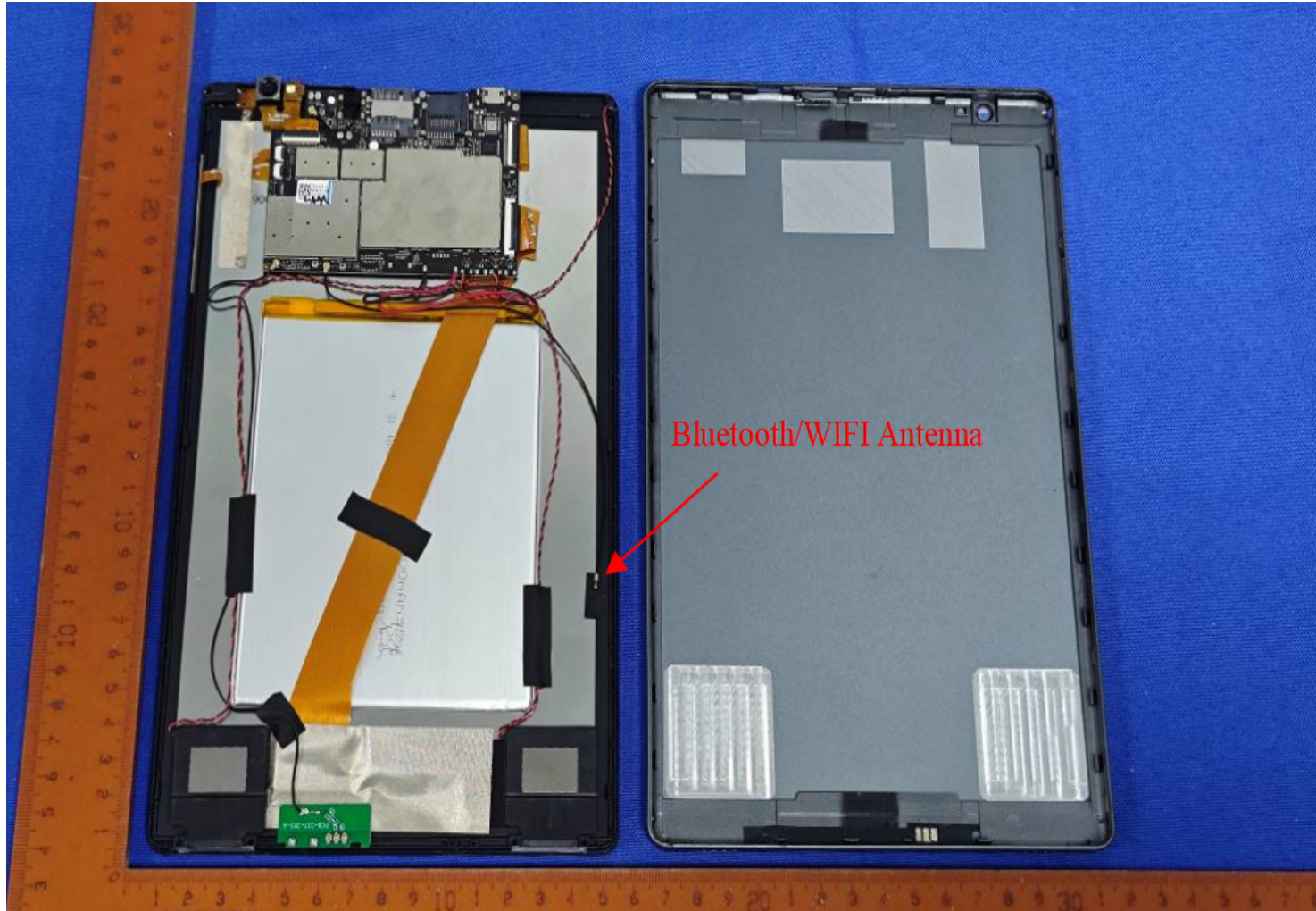
Customer: **ChengFong**

Model: Bluetooth&WIFI ANT

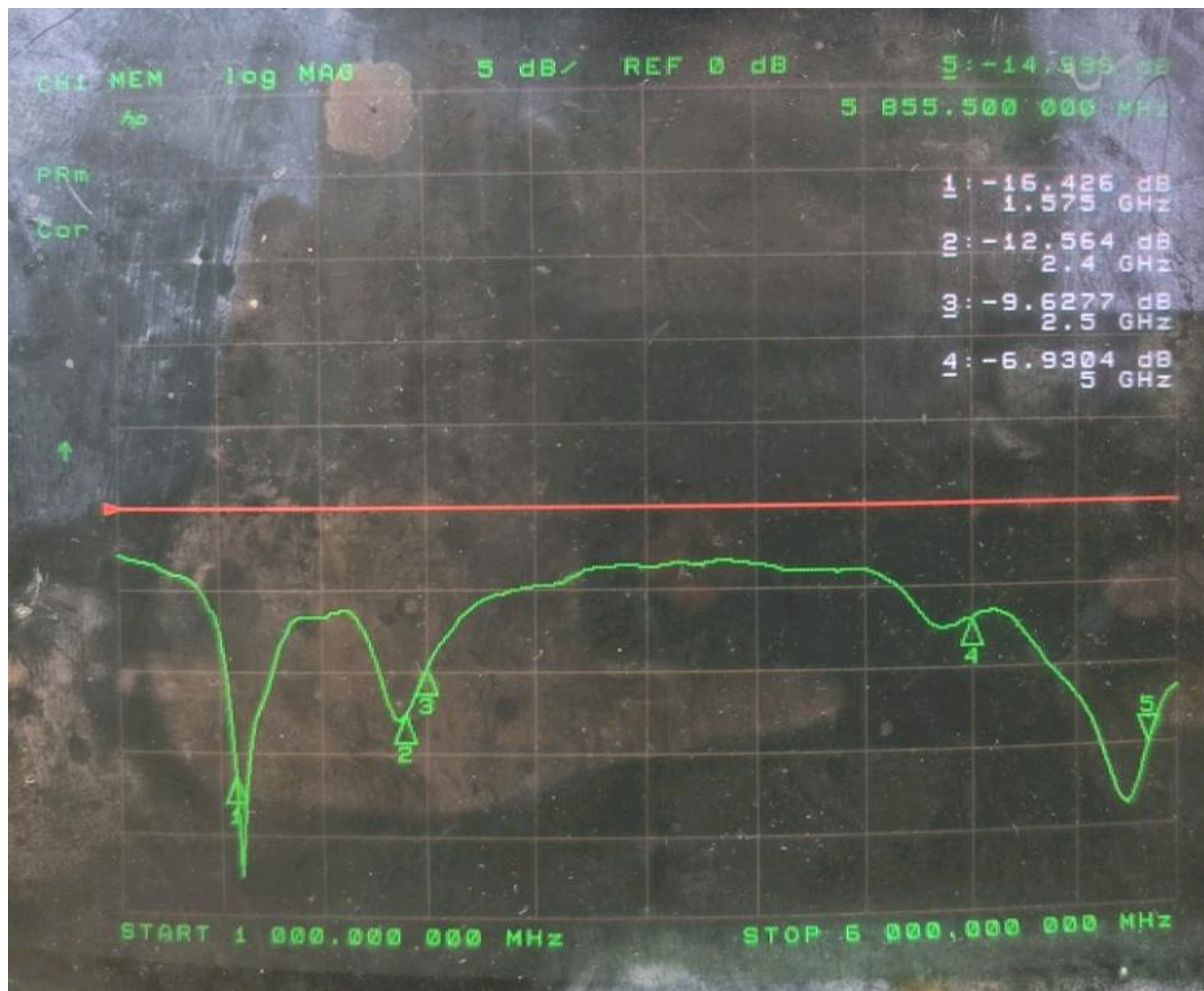
Project : ChengFong\_MQ1059--10LB2\_10.1-inch-  
Li'anTaixin\_X168-Metal-Shell\_Huazhuo-P612-Board\_8766V-  
Main-Control

Report Date: 2023. 07. 15

## Ants' Position



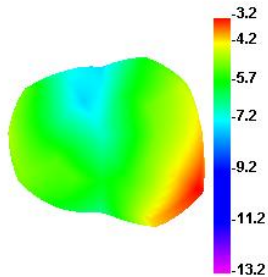
## WIFI&Bluetooth-SWR



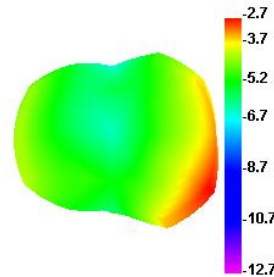
## 2.4G WIFI Efficiency and Gain

Passive Test For 2.4Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHIS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
2400	19.81	-7.03	-3.2	-5.35	11.745	8.061	-3.2	-17.49
2410	18.25	-7.39	-3.41	-5.56	10.812	7.439	-3.41	-17.59
2420	19.11	-7.19	-3.42	-5.57	11.25	7.856	-3.42	-17.78
2430	18.78	-7.26	-3.44	-5.59	10.985	7.791	-3.44	-18.46
2440	20.48	-6.89	-3.18	-5.33	11.941	8.54	-3.18	-18.95
2450	22.03	-6.57	-2.71	-4.86	12.807	9.224	-2.71	-19.58
2460	20.59	-6.86	-3.01	-5.16	11.94	8.65	-3.01	-20.39
2470	18.13	-7.42	-3.4	-5.55	10.503	7.626	-3.4	-21.68
2480	17.15	-7.66	-3.68	-5.83	9.916	7.232	-3.68	-22.75
2490	18.36	-7.36	-3.4	-5.55	10.611	7.746	-3.4	-22.93
2500	18.56	-7.31	-3.38	-5.53	10.728	7.836	-3.38	-23.83

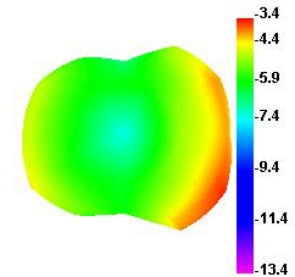
2400.000MHz



2450.000MHz



2500.000MHz

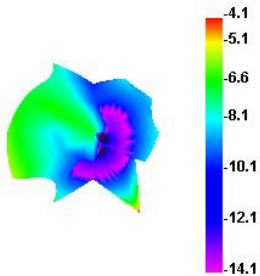


## 5G WIFI Efficiency and Gain

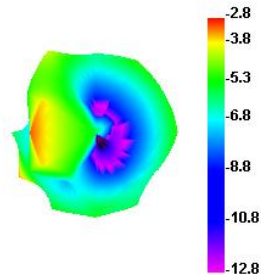
Passive Test For 5Gwifi

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
5000	10.3	-9.87	-4.15	-6.3	5.295	5.008	-4.15	-15.95
5100	11.49	-9.4	-3.87	-6.02	5.728	5.757	-3.87	-18.34
5200	14.05	-8.52	-2.76	-4.91	6.475	7.573	-2.76	-17.11
5300	12.11	-9.17	-2.58	-4.73	5.622	6.487	-2.58	-27.22
5400	16.03	-7.95	-2.15	-4.3	7.83	8.201	-2.15	-22.82
5500	16.58	-7.8	-2.8	-4.95	8.343	8.241	-2.8	-17.84
5600	16.04	-7.95	-3.16	-5.31	8.079	7.958	-3.16	-20.29
5700	20.48	-6.89	-2.21	-4.36	10.194	10.286	-2.21	-23.81
5800	21.42	-6.69	-1.27	-3.42	10.238	11.181	-1.27	-16.92
5900	20.33	-6.92	-1.92	-4.07	9.433	10.901	-1.92	-16.34
6000	19.55	-7.09	-1.7	-3.85	9.275	10.271	-1.7	-17.76

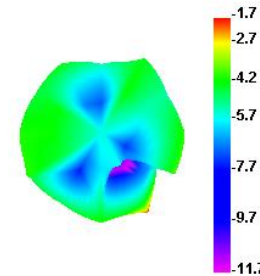
5000.000MHz



5500.000MHz



6000.000MHz



## 2. 4G WIFI& 5G WIFI Signal Strength



Test Location: R & D of Sward

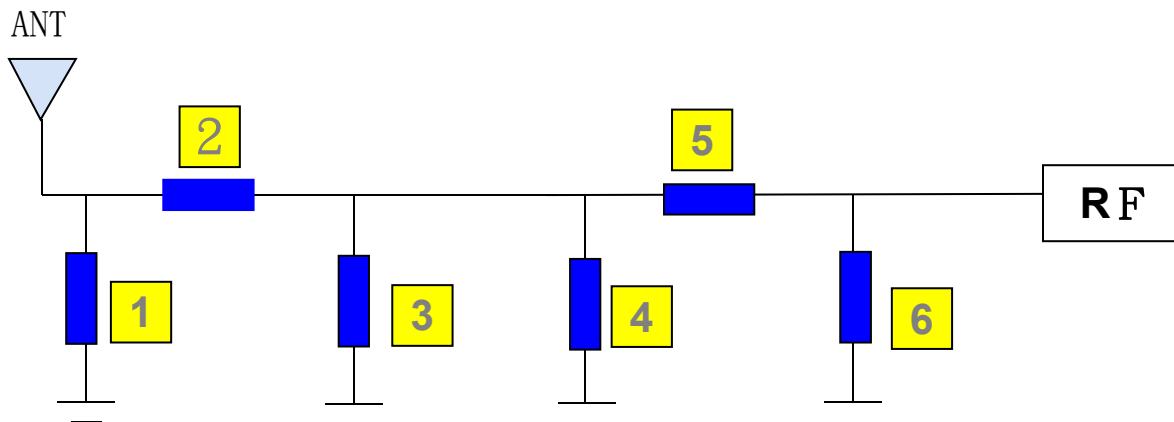
Test Time : 10:00-11:30

Test Distance: 10~15 meters

Test Result : -53dbm to -36dbm

Building B, Hexi Hangcheng Industrial Zone, No. 135 Qianjin No. 2 Road, Baoan District, Shenzhen

## Antenna Matching Network



**Antenna matching has not been changed.**

Main Ant	1	2	3	4	5	6	Remarks
Original Match	-	-	-	-	-	-	-
Changed Match	-	-	-	-	-	-	-