

Antenna Report

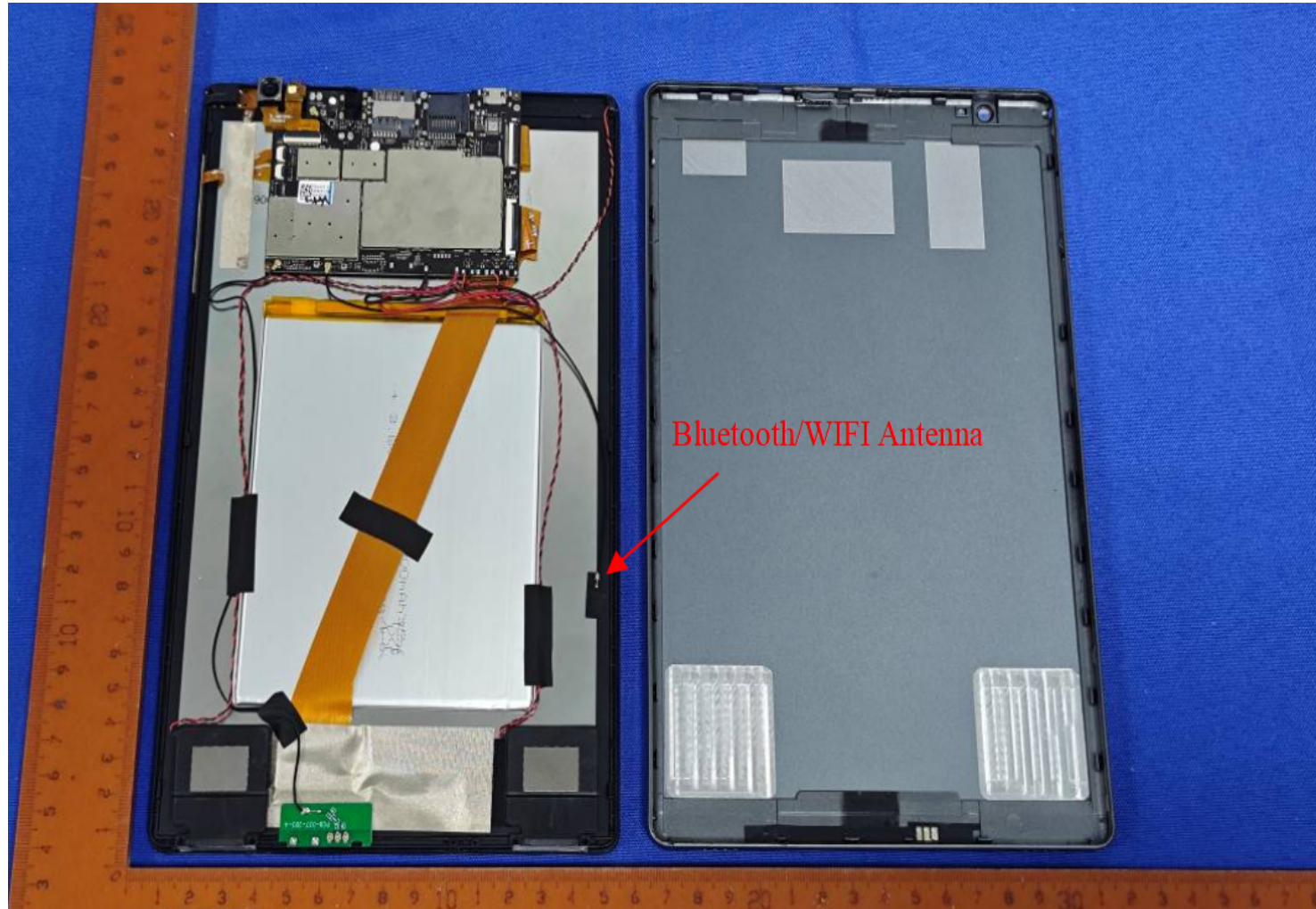
Customer: **ChengFong**

Model: Bluetooth&WIFI ANT

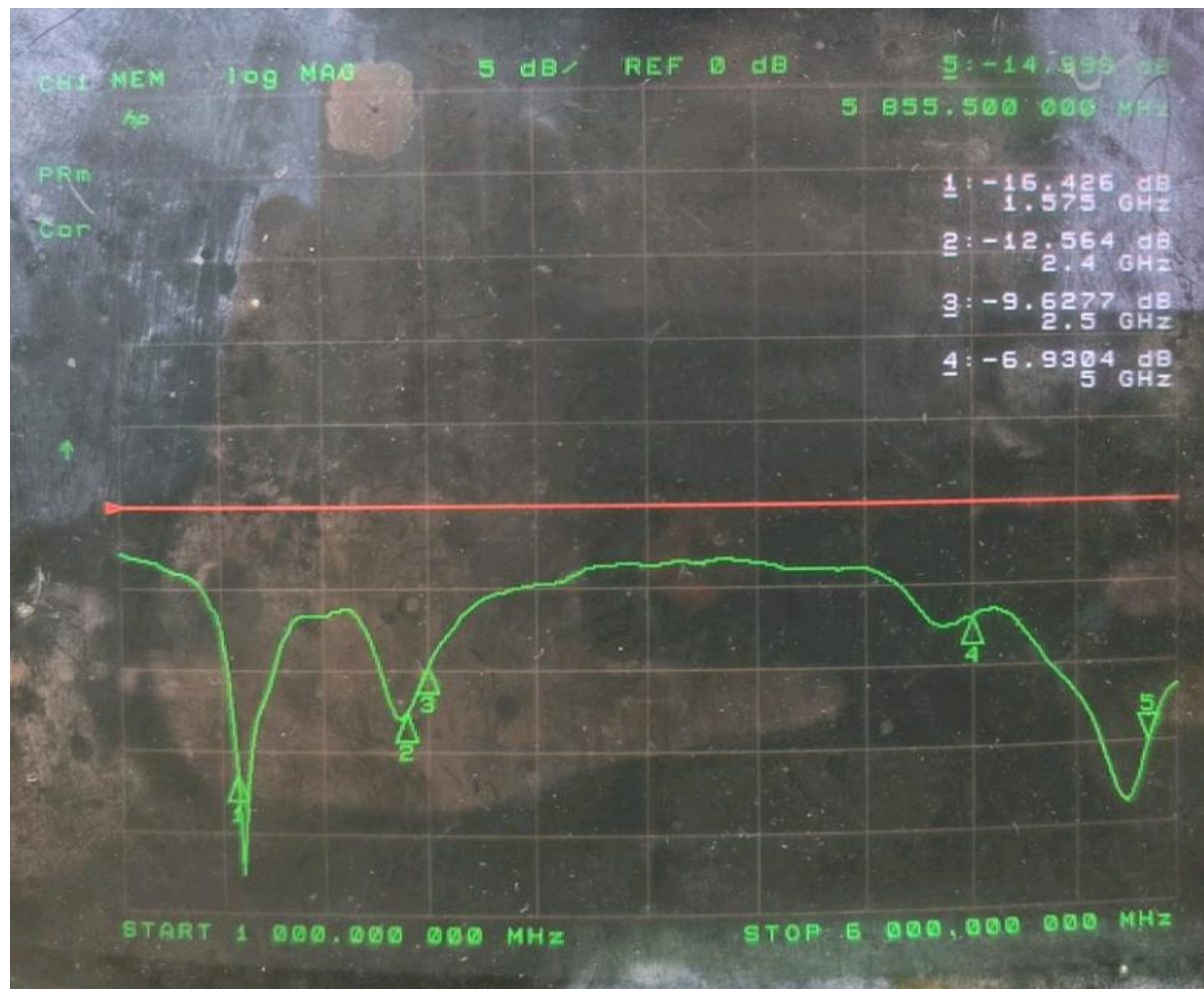
Project : ChengFong_MQ1059--10LB2_10.1-inch-
Li'anTaixin_X168-Metal-Shell_Huazhuo-P612-Board_8766V-
Main-Control

Report Date: 2023. 07. 15

Ants' Position



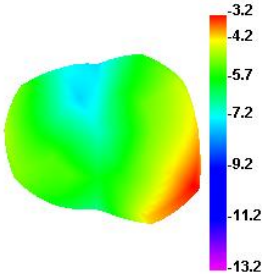
WIFI&Bluetooth-SWR



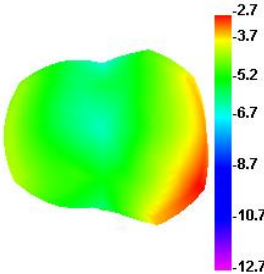
2. 4G WIFI Efficiency and Gain

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

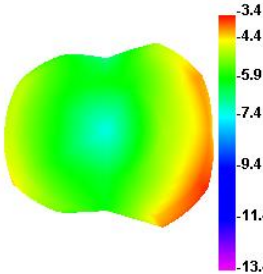
2400.000MHz



2450.000MHz



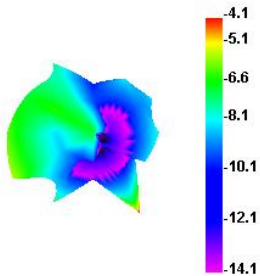
2500.000MHz



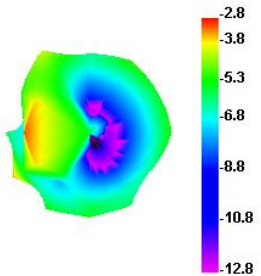
5G WIFI Efficiency and Gain

Passive Test For 5Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHIS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(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

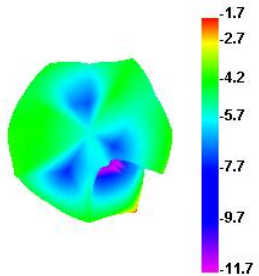
5000.000MHz



5500.000MHz



6000.000MHz



2. 4G WIFI& 5G WIFI Signal Strength



Test Location: R & D of Sward

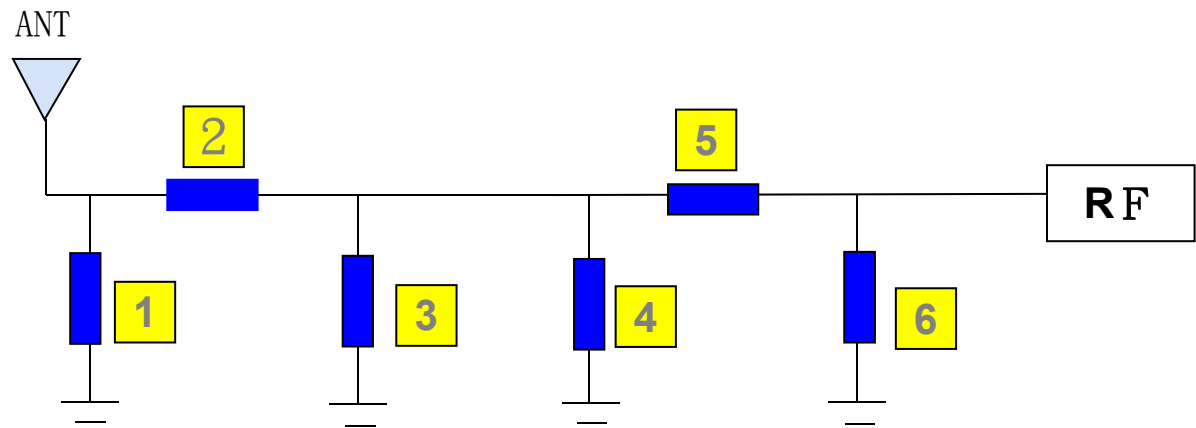
Test Time : 10:00-11:30

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	—	—	—	—	—	—	—