

Sword Antenna Report

Customer: **ChengFong**

Project : 10LB4

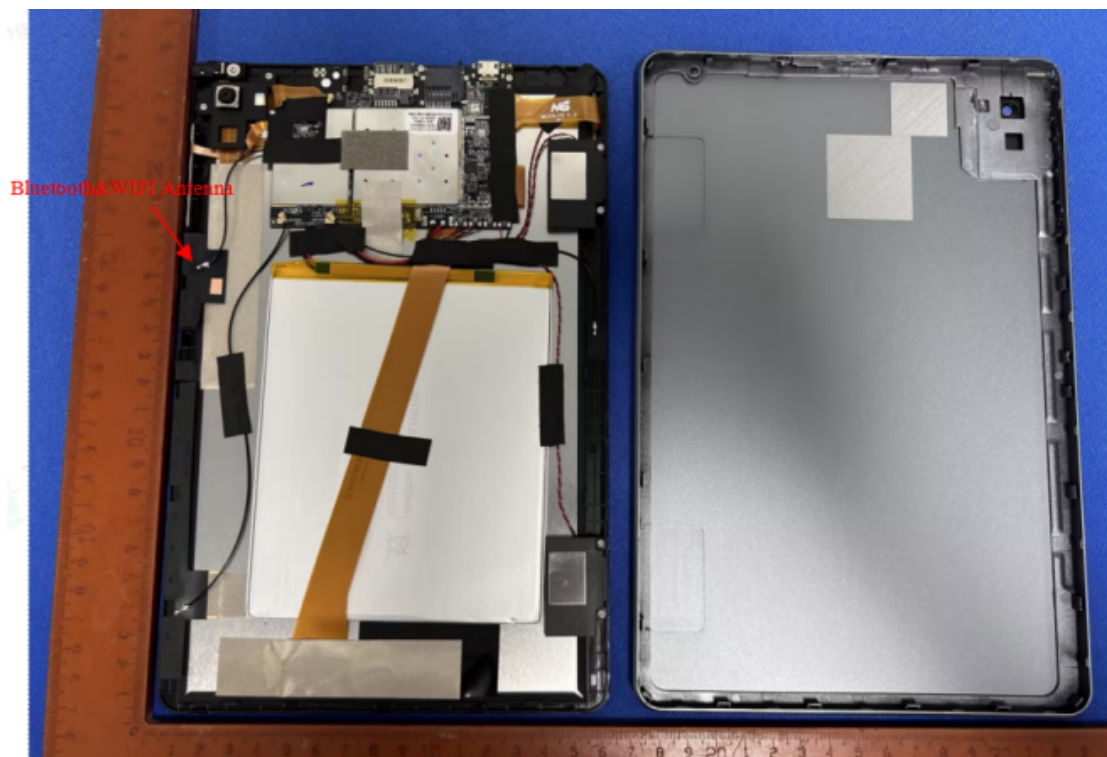
Report Date: 2024. 07. 12

Project Introduction

Description

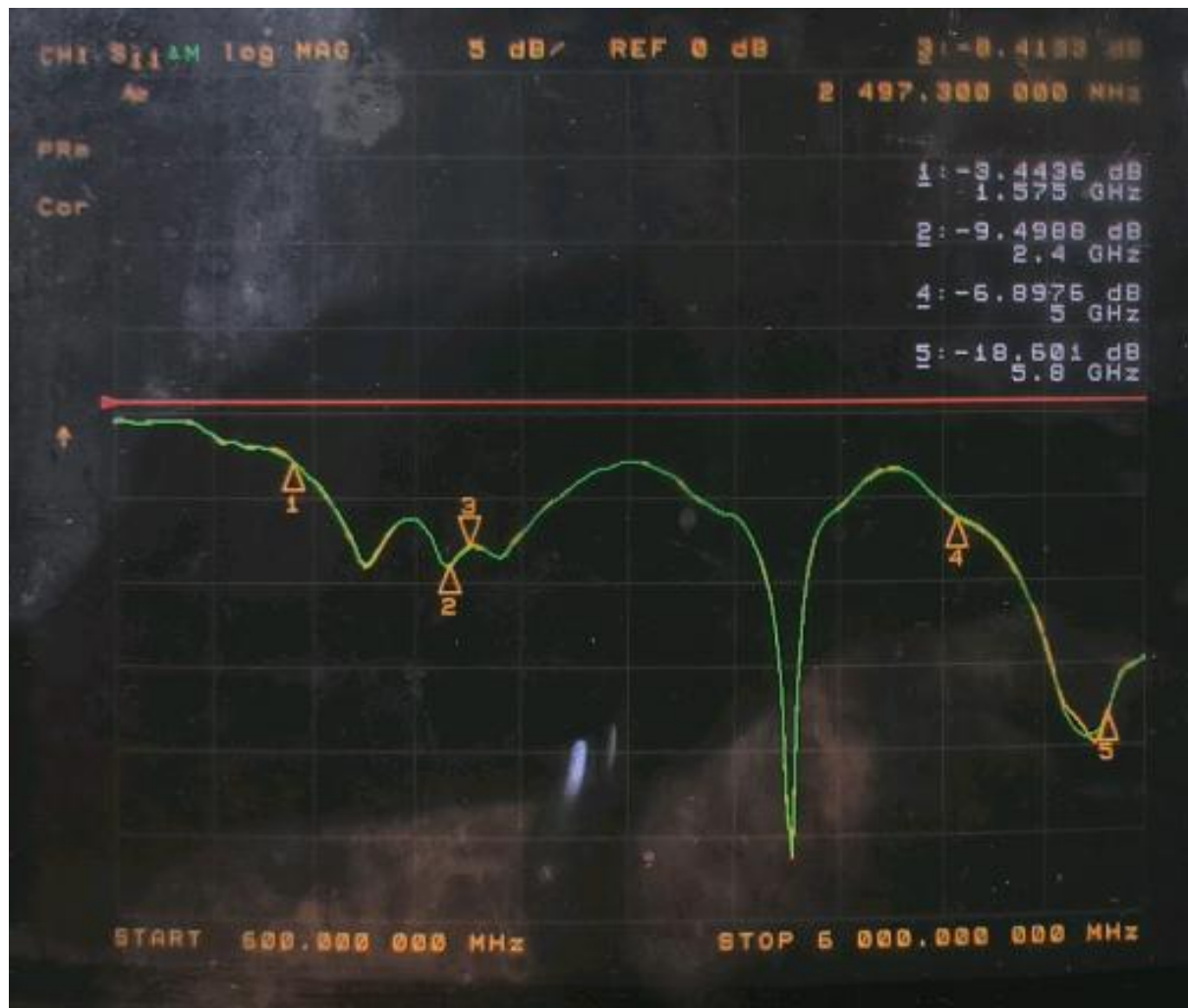
Num.	Function	Frequency Band / MHz	Material / Structure
1	WIF&Bluetooth	2400MHz-2500MHz 5000MHz-6000MHz	FPC Antenna

AntennaPosition



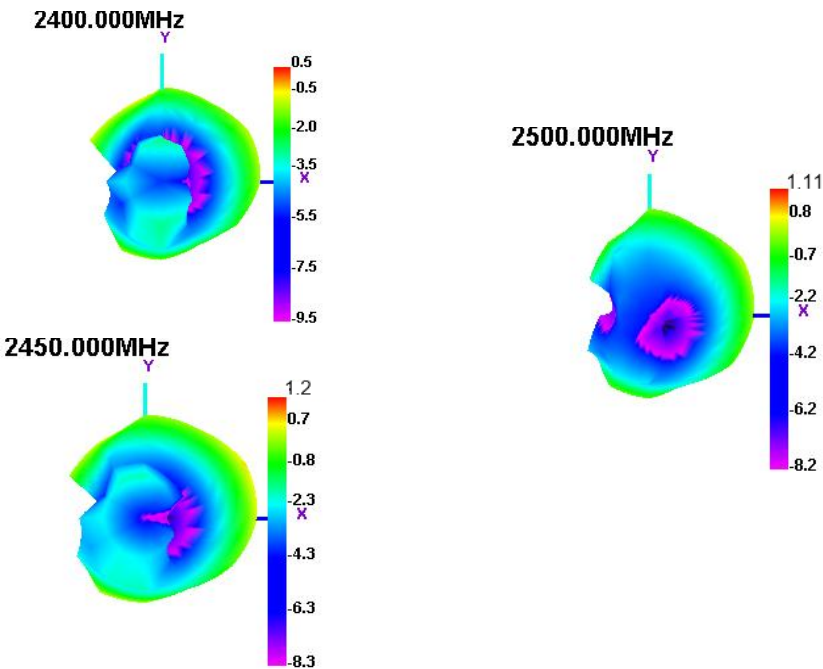
No changes have been made.

WIFI&Bluetooth Antenna S11



2. 4G WIFI&Bluetooth Efficiency/Gain

Passive Test For 2.4Gwifi			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	39.25	-4.06	0.52
2410	39.99	-3.98	0.48
2420	38.11	-4.19	0.42
2430	37.31	-4.28	0.56
2440	40.86	-3.89	1.14
2450	43.29	-3.64	1.20
2460	41.5	-3.82	1.02
2470	37.77	-4.23	1.09
2480	35.7	-4.47	1.11
2490	37.51	-4.26	0.96
2500	38.3	-4.17	0.82



5GWIFI Efficiency/Gain

Passive Test For 5Gwifi			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5000	43.59	-3.61	1.59
5100	41.44	-3.52	1.02
5200	43.03	-3.1	1.25
5300	42.05	-3.76	1.72
5400	41.11	-3.86	1.82
5500	37.19	-4.3	1.51
5600	43.92	-3.57	1.7
5700	46.45	-2.48	1.98
5800	46.58	-2.36	2.00
5900	44.21	-3.35	1.79
6000	42.78	-2.77	1.21

