

Sward Antenna Report

Customer: 奥尼

Project: D135

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Project contact information

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Project Introduction

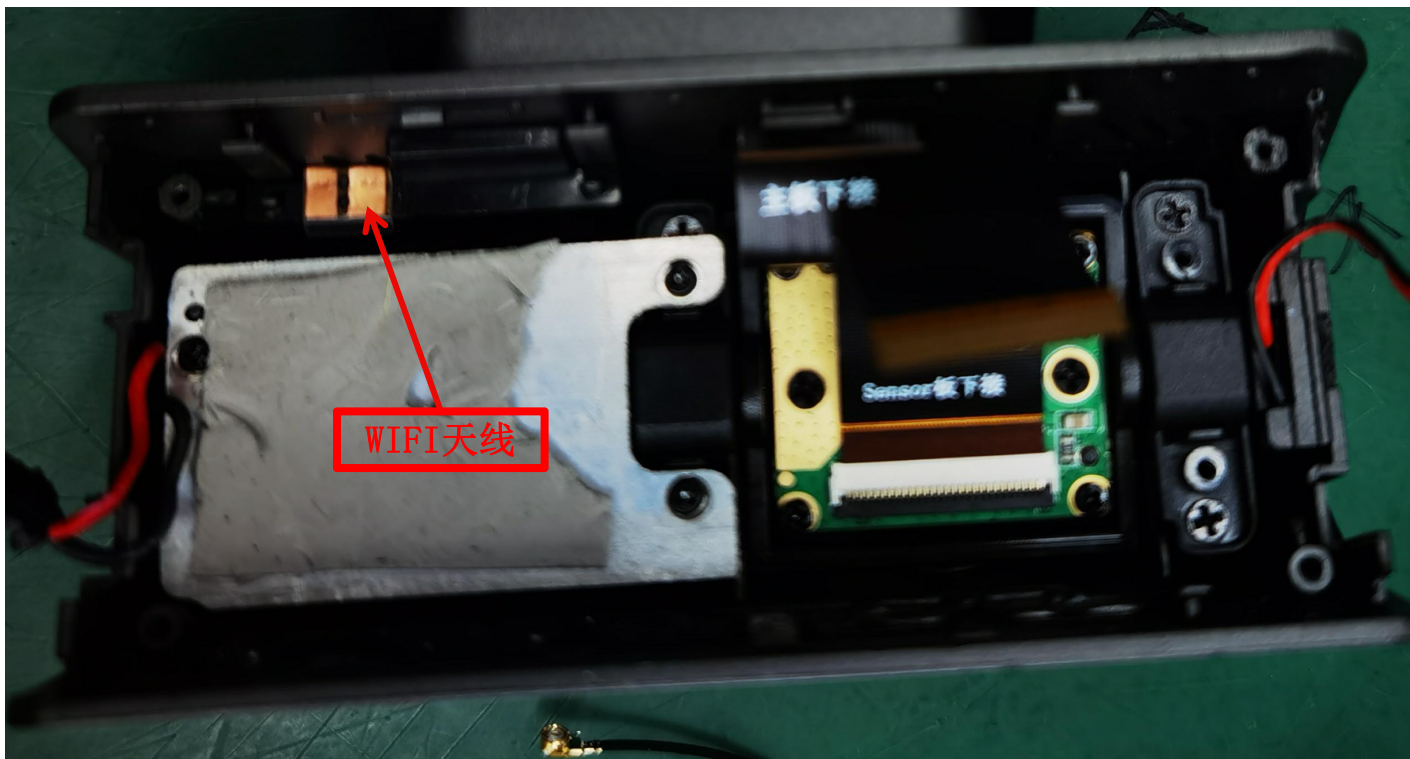
1.Resume

Antennas	Type
1	WIFI hidden recorder
Shell Material: 8-Inch-Plastic	

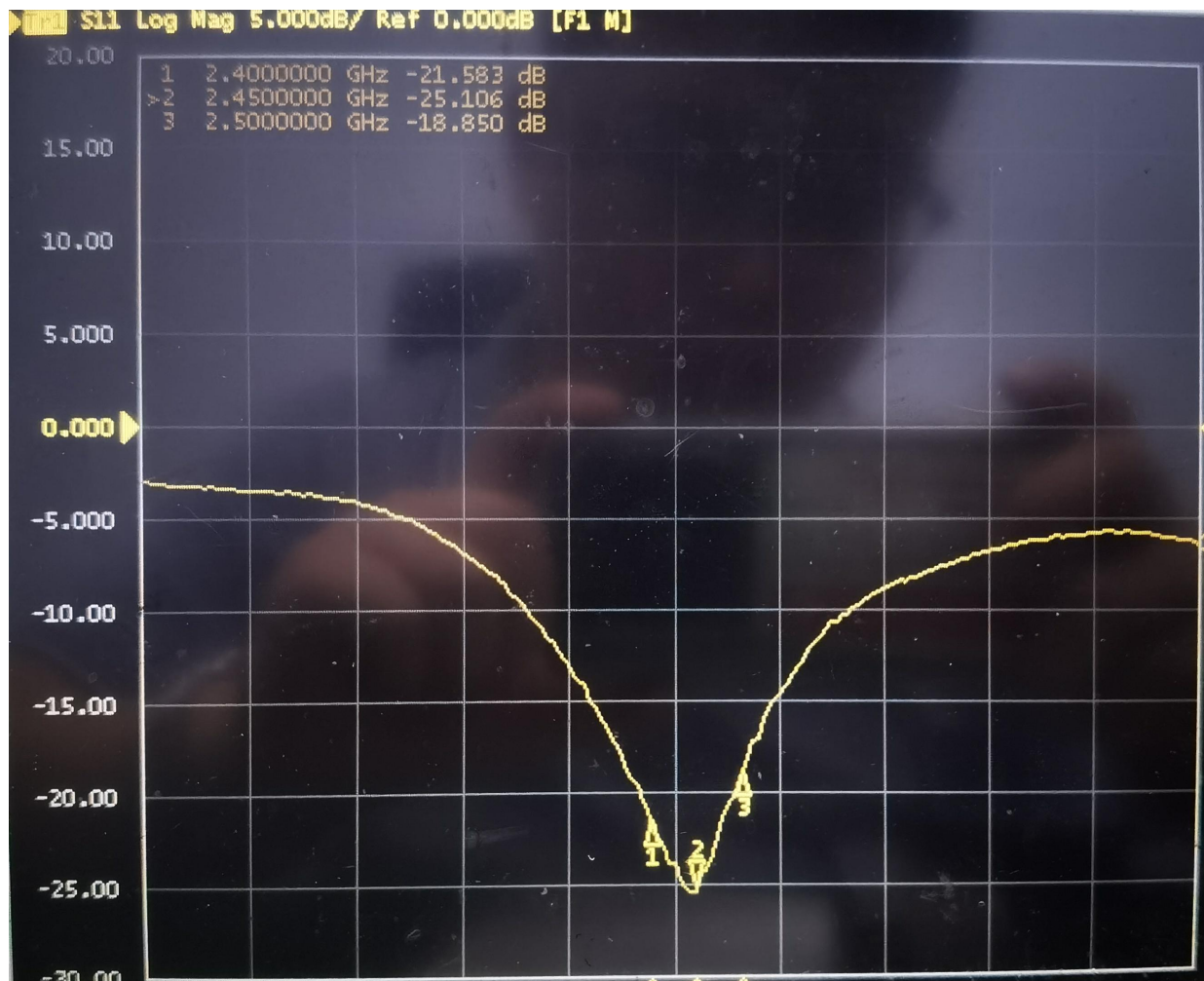
2.Description

Num.	Function	Frequency Band / MHz	Material / Structure
1	WIFI	2400MHz/2500MHz	FPC

Antenna Position



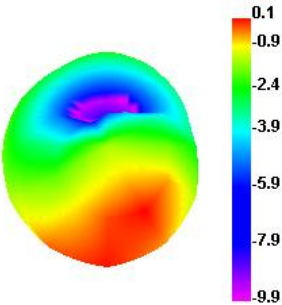
WIFI Antenna S11



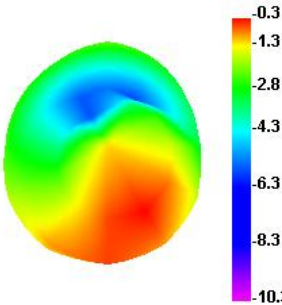
Antenna Efficiency

Passive Test For 2.4G-WiFi-BT										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)
2400	43.13	-3.65	0.1	-2.05	24.248	18.878	0.1	-12.74	3.75	240
2410	41.9	-3.78	-0.07	-2.22	23.461	18.435	-0.07	-13.79	3.71	240
2420	41.77	-3.79	-0.05	-2.2	23.299	18.468	-0.05	-14.56	3.74	240
2430	39.66	-4.02	-0.29	-2.44	22.093	17.571	-0.29	-15.25	3.72	90
2440	39.23	-4.06	-0.23	-2.38	21.878	17.347	-0.23	-15.67	3.83	90
2450	39.17	-4.07	-0.29	-2.44	21.793	17.373	-0.29	-15.41	3.78	60
2460	38.66	-4.13	-0.35	-2.5	21.45	17.215	-0.35	-15.59	3.78	60
2470	38.23	-4.18	-0.52	-2.67	21.059	17.168	-0.52	-14.6	3.65	60
2480	39.43	-4.04	-0.5	-2.65	21.553	17.877	-0.5	-13.2	3.54	60
2490	40.22	-3.96	-0.7	-2.85	21.83	18.394	-0.7	-11.76	3.26	60
2500	37.75	-4.23	-1.03	-3.18	20.398	17.351	-1.03	-11.93	3.2	60

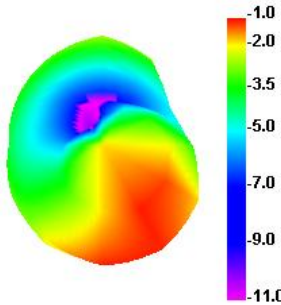
2400.000MHz



2450.000MHz



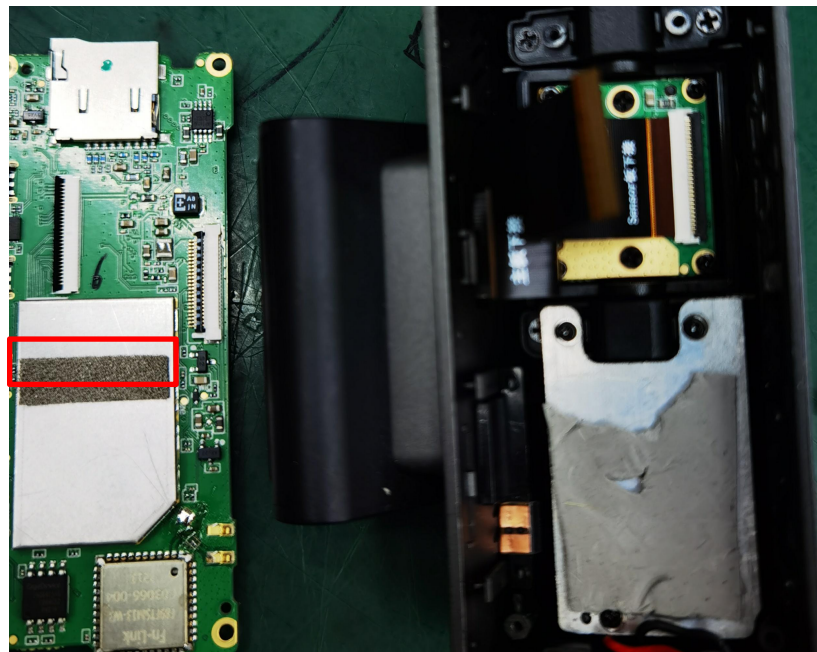
2500.000MHz



WIFI active data

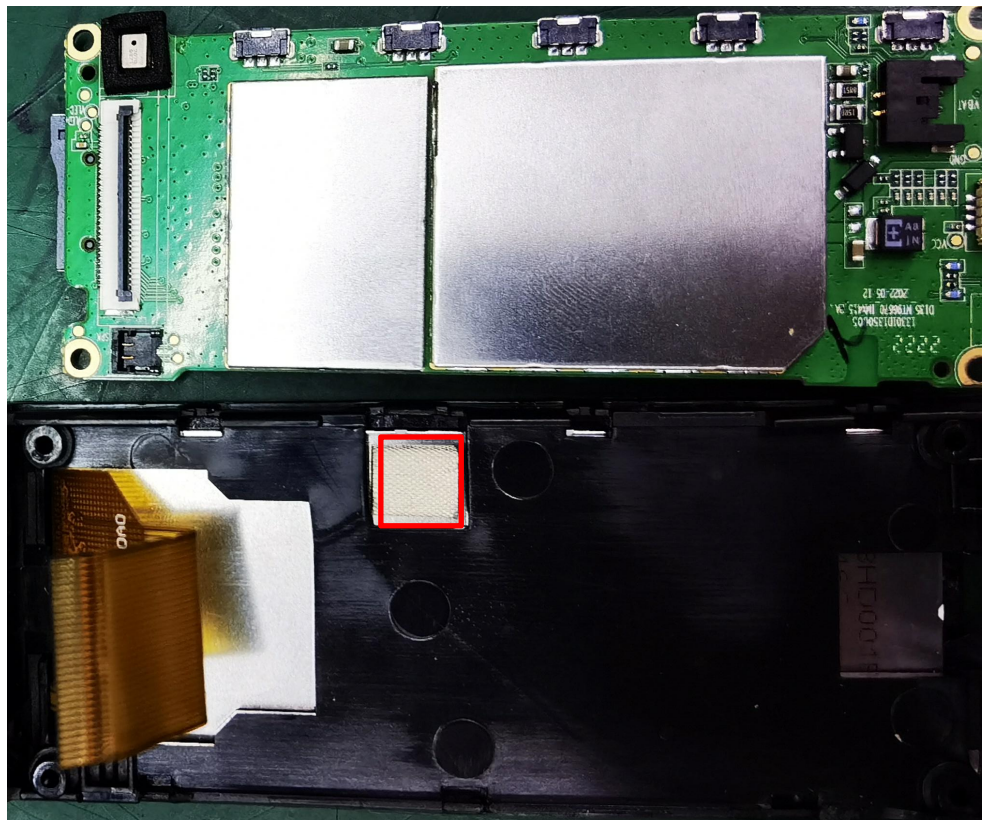
802.11b : 11Mbps		
1	6	11
2412	2437	2462
15.71	14.19	14.68
-78.3	-80.46	-80.16
802.11g : 54Mbps		
1	6	11
2412	2437	2462
12.48	11.85	12.4
-66.74	-66.67	-66.64
802.11n : MCS7		
1	6	11
2412	2437	2462
12.64	11.71	11.58
-63.07	-63.58	-63.36

Environmental Handling and Assembly Instructions



1. The main board shield cover is pasted with conductive sponge and the heat sink is grounded

Environmental Handling and Assembly Instructions



2. The screen paste conductive foam and the shielding cover are grounded

Notes:

1. This report is based on the actual commissioning and testing of the commissioning prototype, including the assembly instructions, antenna position and assembly position of each device. **It cannot be changed at will;**
2. If there is **any change** in the materials used in the prototype, it is necessary to timely feed back to our company for **re-verification**;
3. List of sensitive devices:
 - TP** (material, coating, wiring, etc.)
 - Screen** (amplification circuit, led, cable layout design, etc.)
 - Shell material** (antenna assembly method, structural interference, shell material, antenna position height and area, etc.)
 - Mainboard** (mainboard conduction, RF circuit matching, PA, duplex, filter, LNA, power circuit, etc.)
 - Camera, battery, motor, MIC, fingerprint identification module, etc.**
4. Due to the small number or only one sample adjusting machine, some probabilistic problems cannot be completely found. **It is recommended to Check the problem points in small batch trial production before mass production**(screen flashes , horn noise, TP jump point, black screen OR crash, signal diving, etc.).