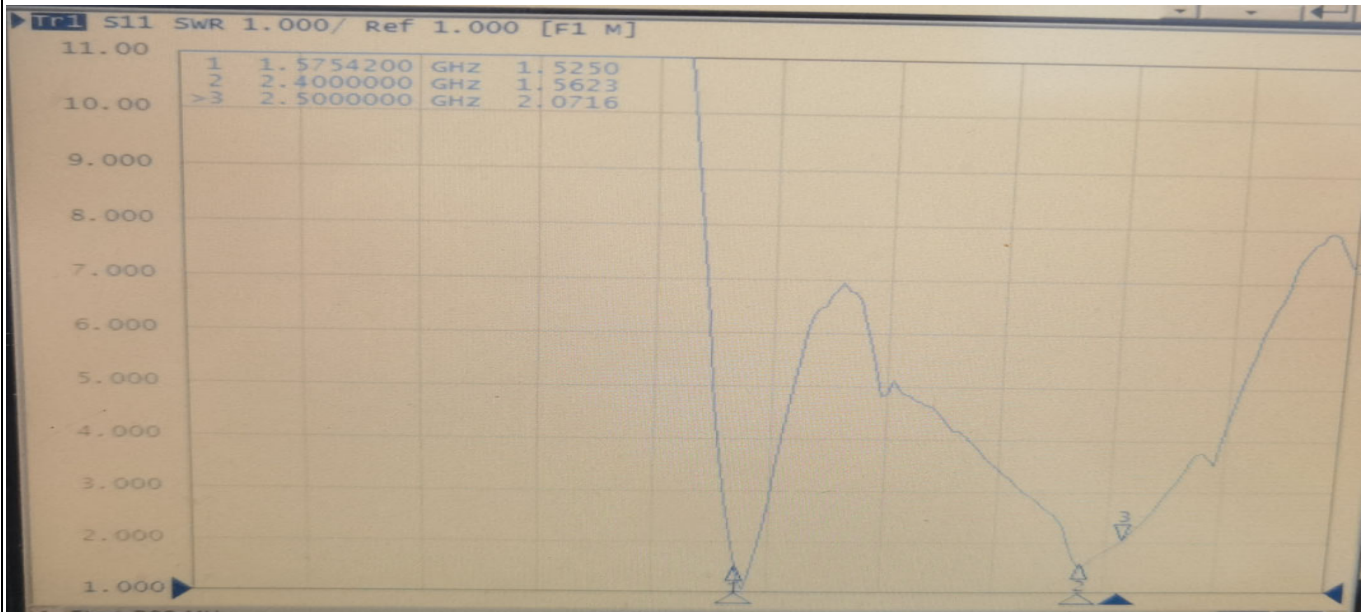


Dongguan Zhongshang Tongda Plastic Wuquan Co., Ltd
No. 751 Yangwu Section, Guanchang Road, Dalingshan Town, Dongguan City
S666 Antenna Report

Main content of the report

Optimization test results: 1. Arm GPS antenna efficiency debugging around 7%, 2. Arm BT antenna efficiency debugging around 5%

GPS/BT Passive diagram

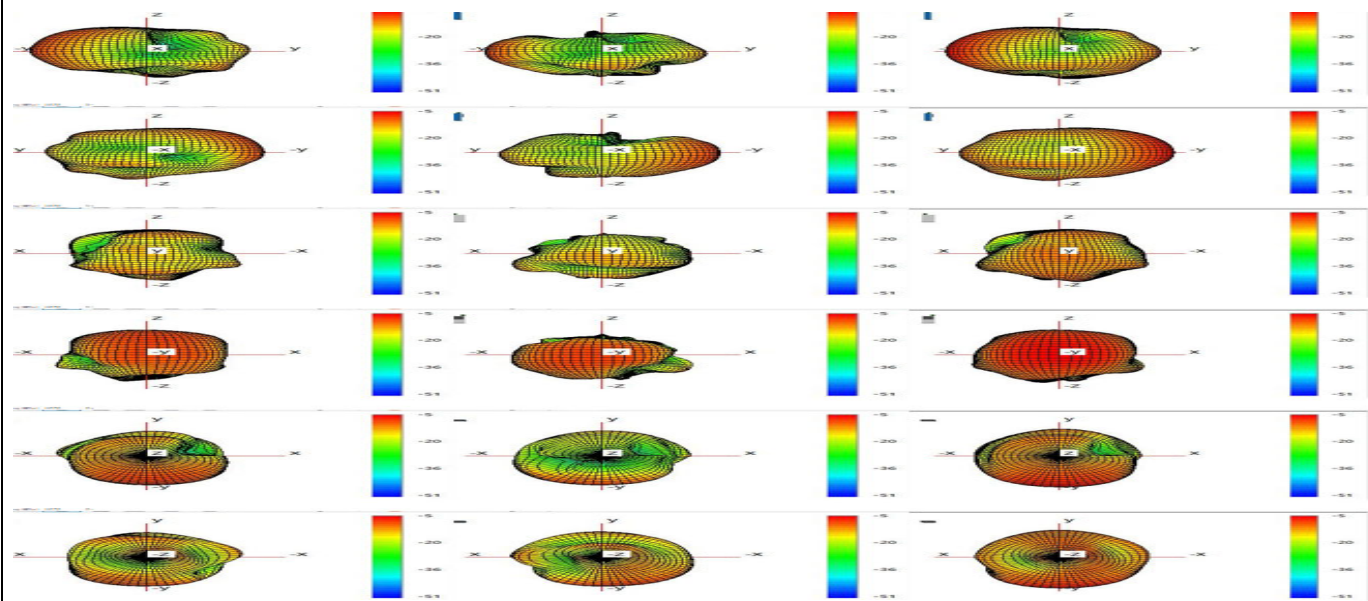


Test results of antenna efficiency parameters

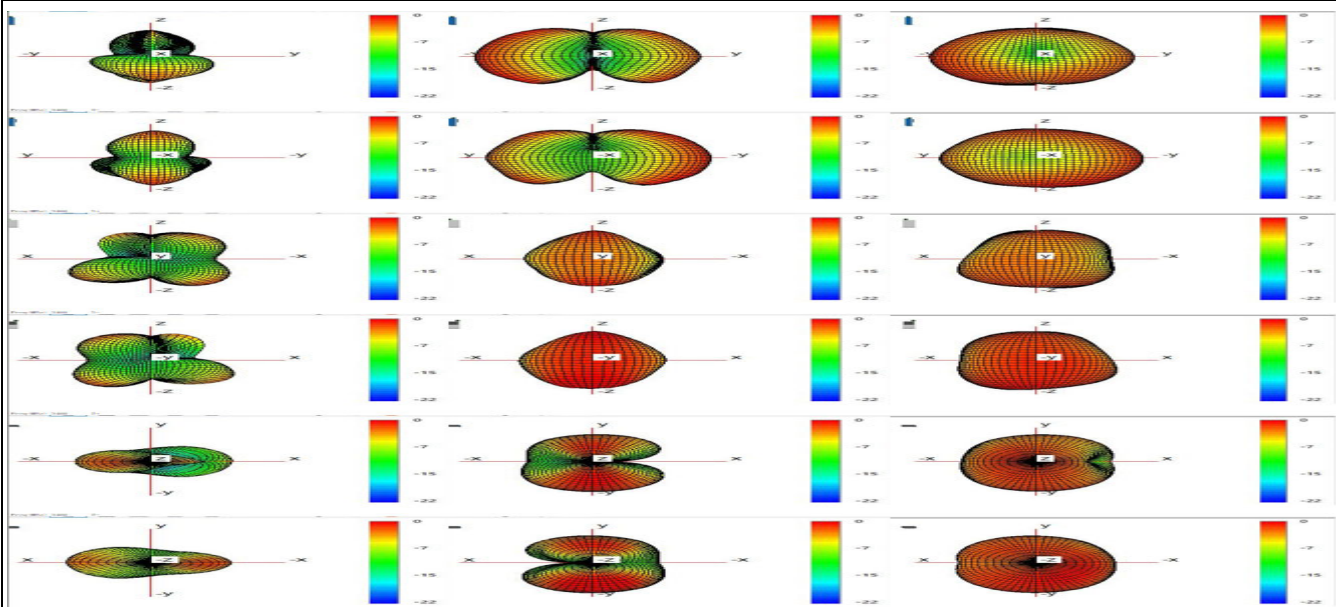
	Frequency point	Efficiency	Efficiency db	gain		Frequency point	Efficiency	Efficiency db	gain
BT Arm	2400	1%	-18.5	-5.8	GPS Arm	1550	3%	-15.5	-6.4
	2410	2%	-16.8	-5.7		1555	4%	-13.9	-6.1
	2420	3%	-14.9	-5.5		1560	4%	-13.6	-5.9
	2430	4%	-14.6	-5.3		1565	5%	-12.8	-5.7
	2440	4%	-14.3	-5.1		1570	6%	-11.9	-5.5
	2450	5%	-12.7	-5.2		1575	7%	-11.7	-5.1
	2460	4%	-13.6	-5.2		1580	6%	-12.4	-5.3
	2470	3%	-14.9	-5.3		1585	4%	-13.6	-5.6
	2480	4%	-14.2	-5.5		1590	3%	-15.1	-5.7
	2490	3%	-15.7	-5.6					
	2500	3%	-15.5	-5.4					

1575MHZ Passive directional diagram/field pattern diagram

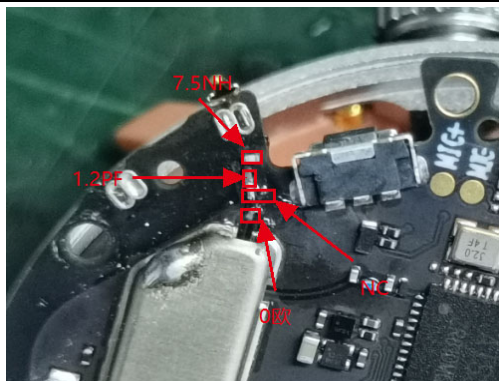
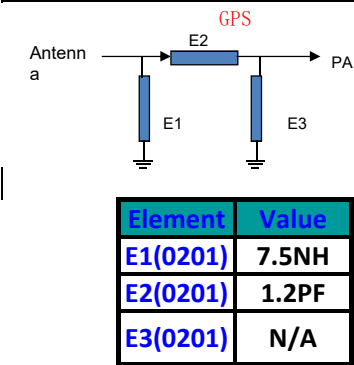
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2450MHZ Passive directional diagram/field pattern diagram

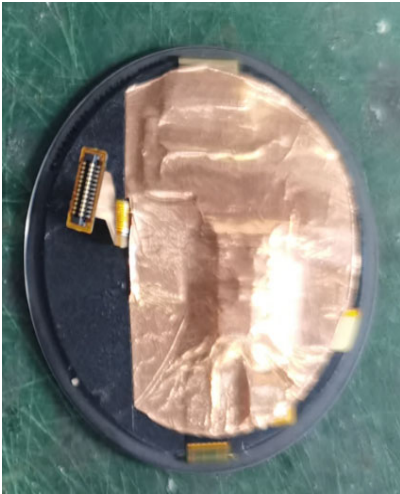


GPS match

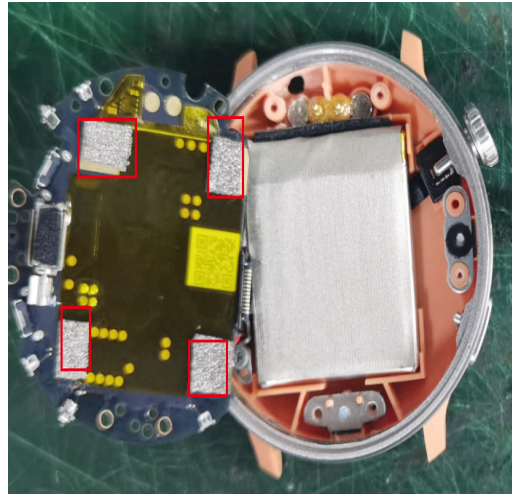


environmental treatment

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1、Copper foil shielding FPC shielding

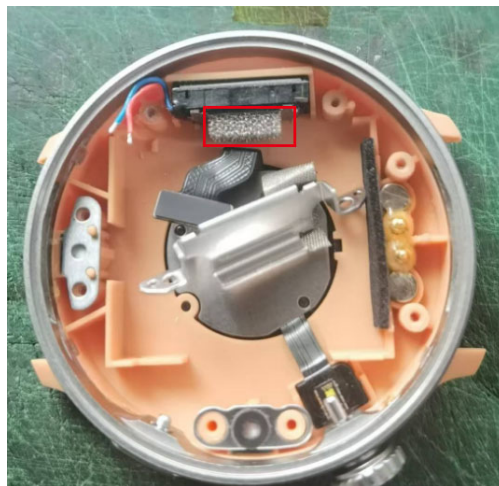


2、Four sponges are attached to the motherboard for copper leakage and connected to the battery group
Both the front and back of the battery are covered with conductive cloth for shielding

environmental treatment

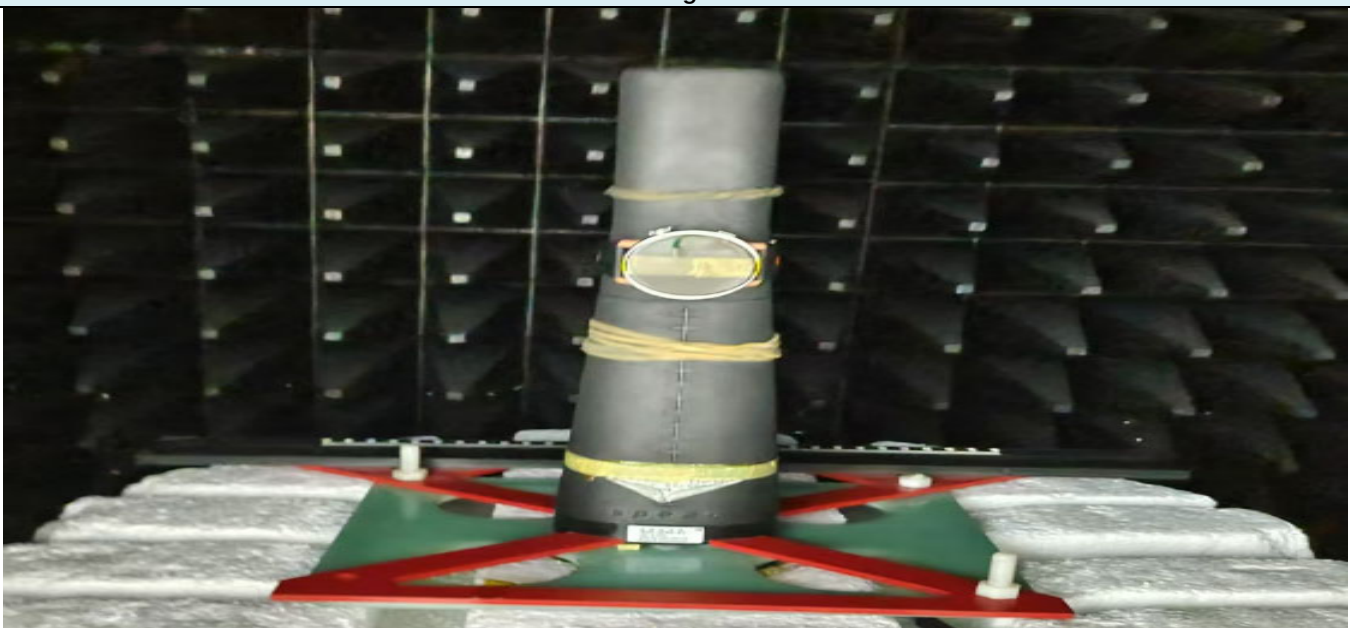


3、The horn pressing steel plate is connected to the heart rate small plate with conductive cloth



4、The horn magnetic steel is bonded with conductive foam and the horn pressing steel plate is grounded and must be connected to the position

Antenna testing environment



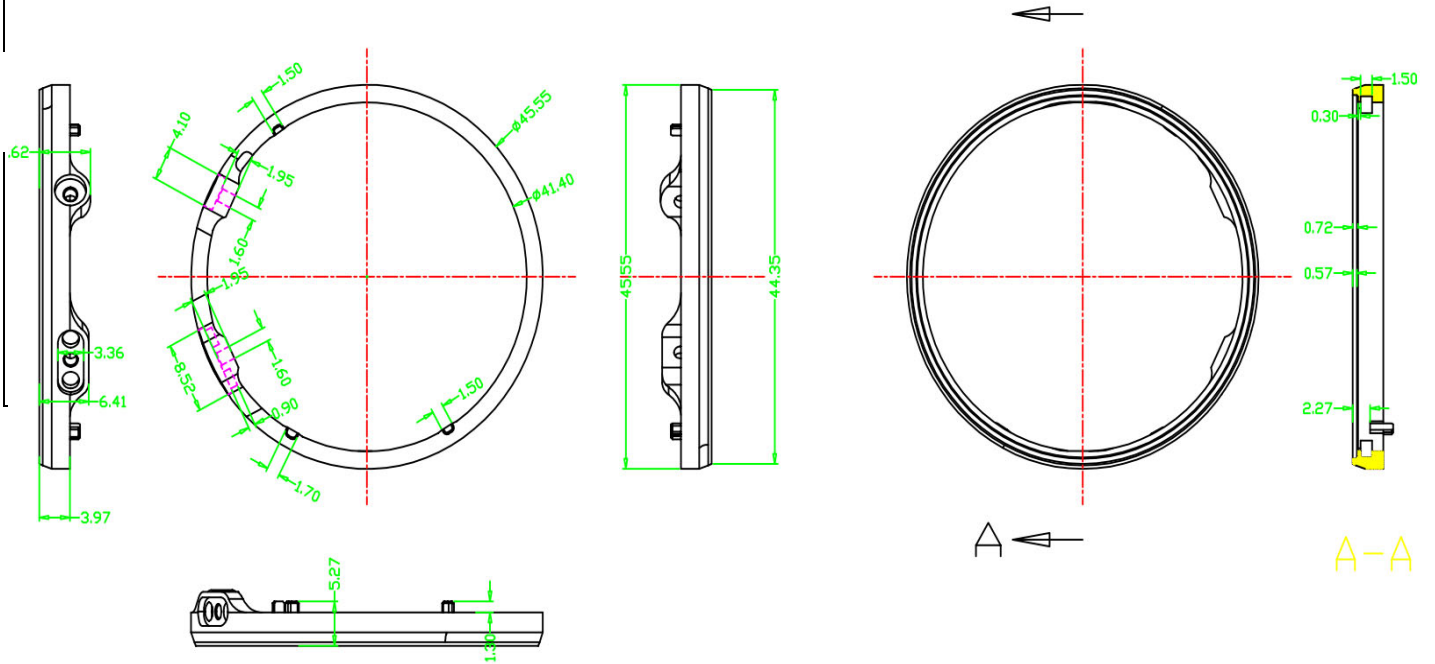
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Whole machine N-value test



Antenna size



rd.

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