



深圳市昱晟通讯设备有限公司  
Yusheng Communications-equipment Co.,LTD

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# LG115 antenna debugging report

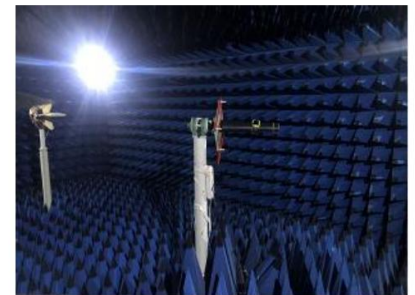
Radio Frequency: Hong Yuankai

Date: 2024-11-21

Contact: 15119409299

Manufacturer: Shenzhen Fission Intelligent Co., Ltd.

Address: Room 820-822, Building B, No. 108 Donghuan 1st Road,  
Songhe Community, Longhua District, Shenzhen, Guangdong,  
China

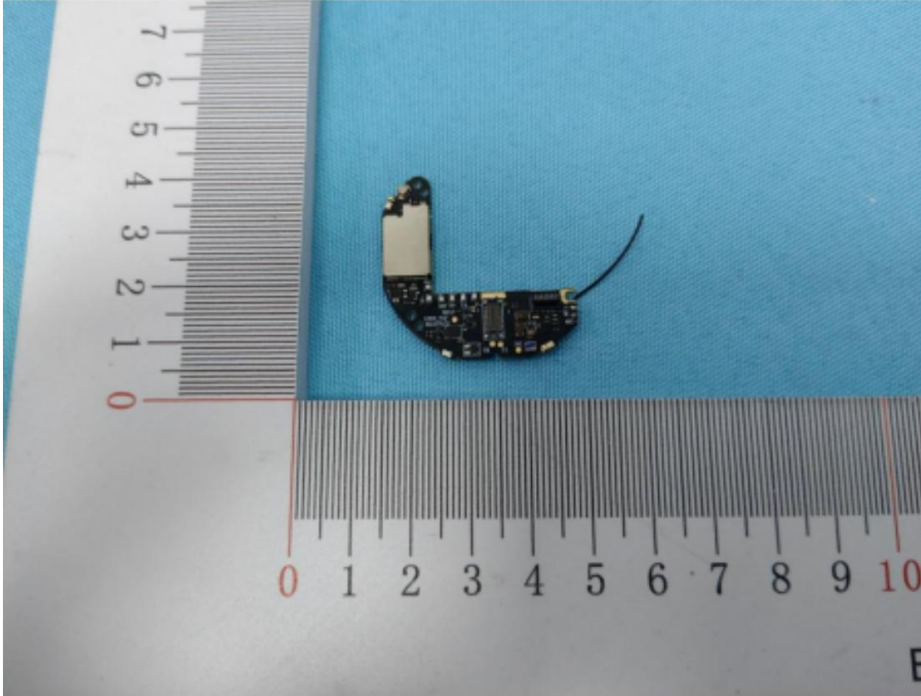




Project Debugging Introduction

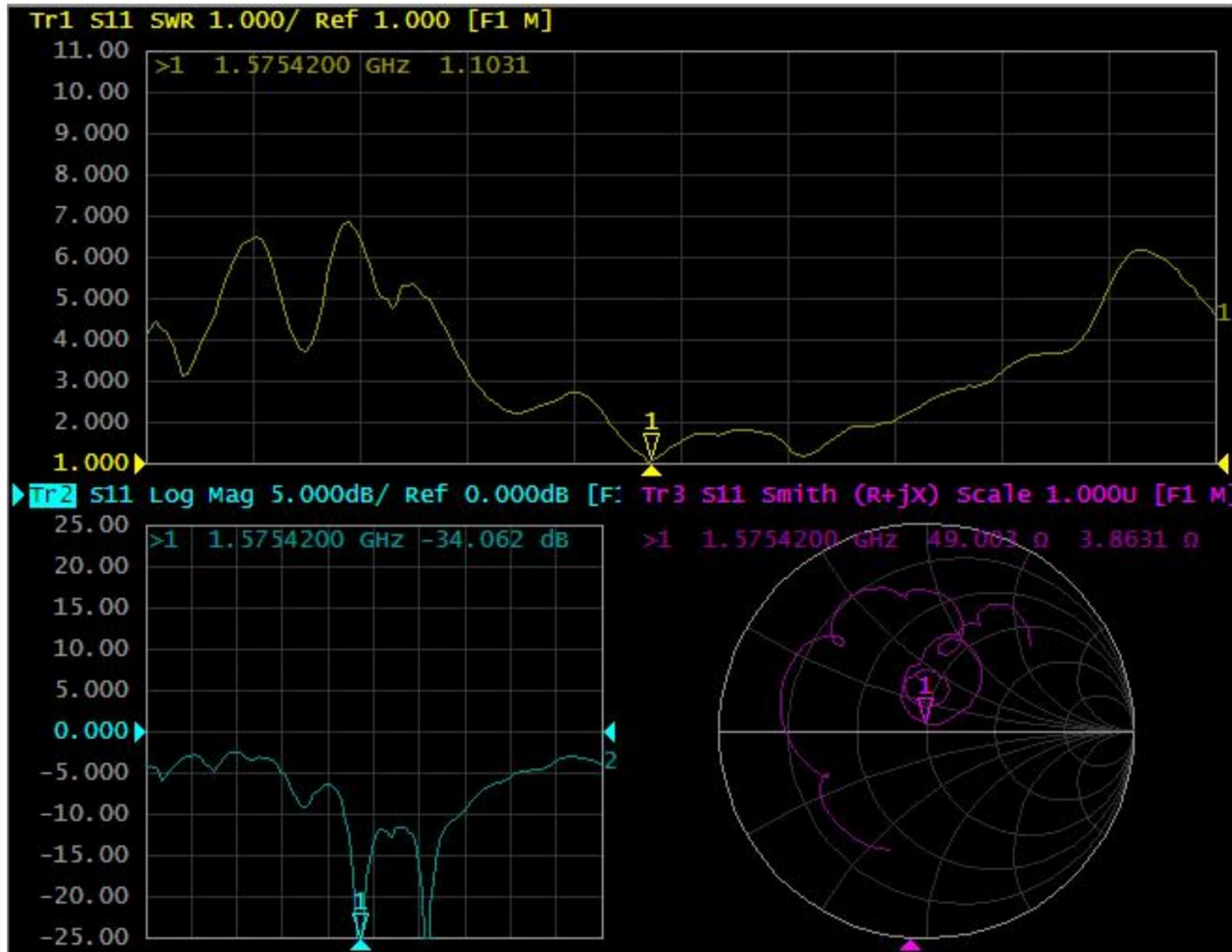
model	watch		
Frequency band and antenna material GPS/BT		Frequency band	Material
		1575.42MHz/2.4GHz-2.5GHz	/
Performance requirements	Execute according to customer requirements		

## Monopole Antenna



Antenna length: 23mm

Antenna passive parameters

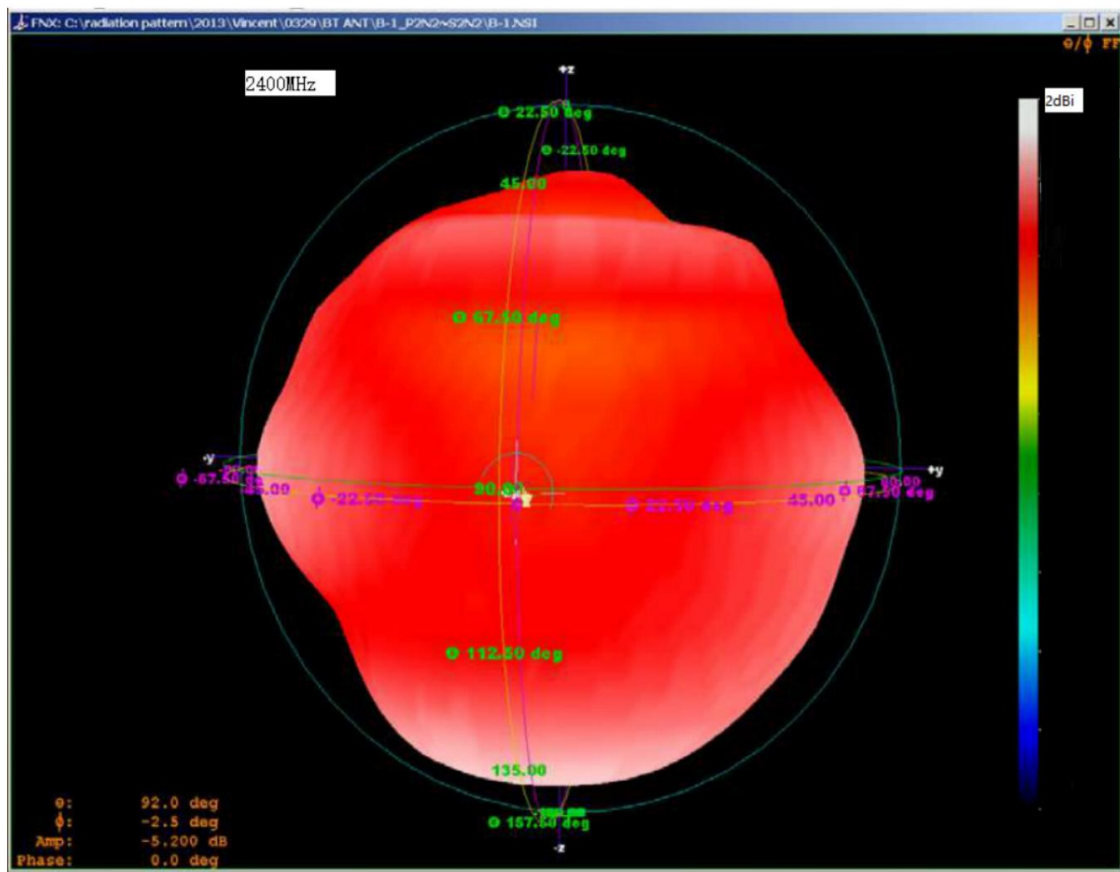


## Antenna efficiency and gain—ARM

GPS		
Freq (MHz)	Effi (%)	Gain (dBi)
1550	6.0	-6.5
1560	6.5	-6.3
1570	6.8	-5.9
1575	7.1	-5.7
1580	6.7	-6.0
1590	6.2	-6.5

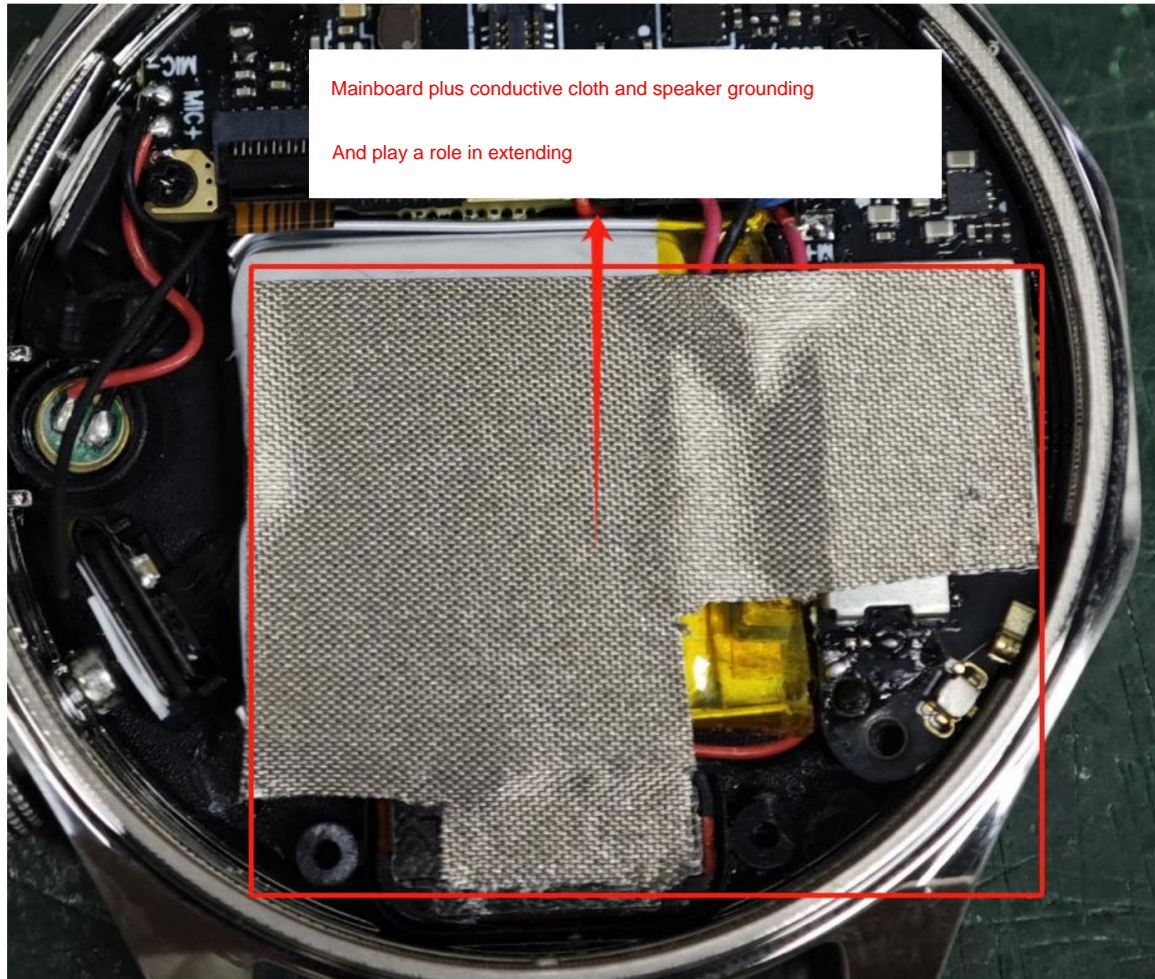
BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	4.4	2.00
2420	4.8	1.20
2440	5.4	-0.88
2450	5.0	0.54
2460	4.7	1.89
2480	4.3	-1.19

3D Plot



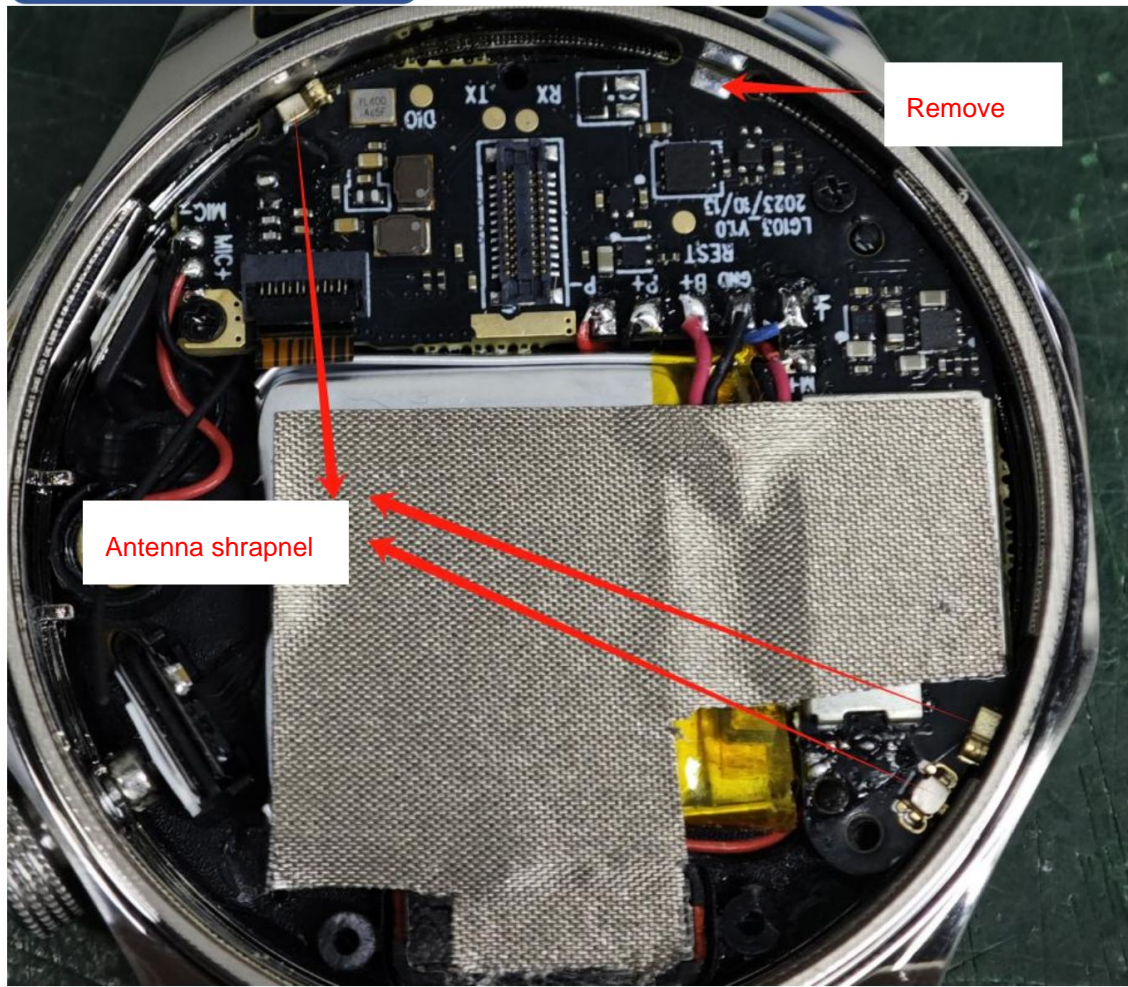


Environmental treatment



illustrate

LG115 motherboard



Remove

Antenna shrapnel

These are the GPS antenna shrapnel spots



# *Thank you!*



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