Topositive Internet of Things

The LS20 antenna test report

Radio frequency: Li Gong

Time: 2024.08.23

catalogue

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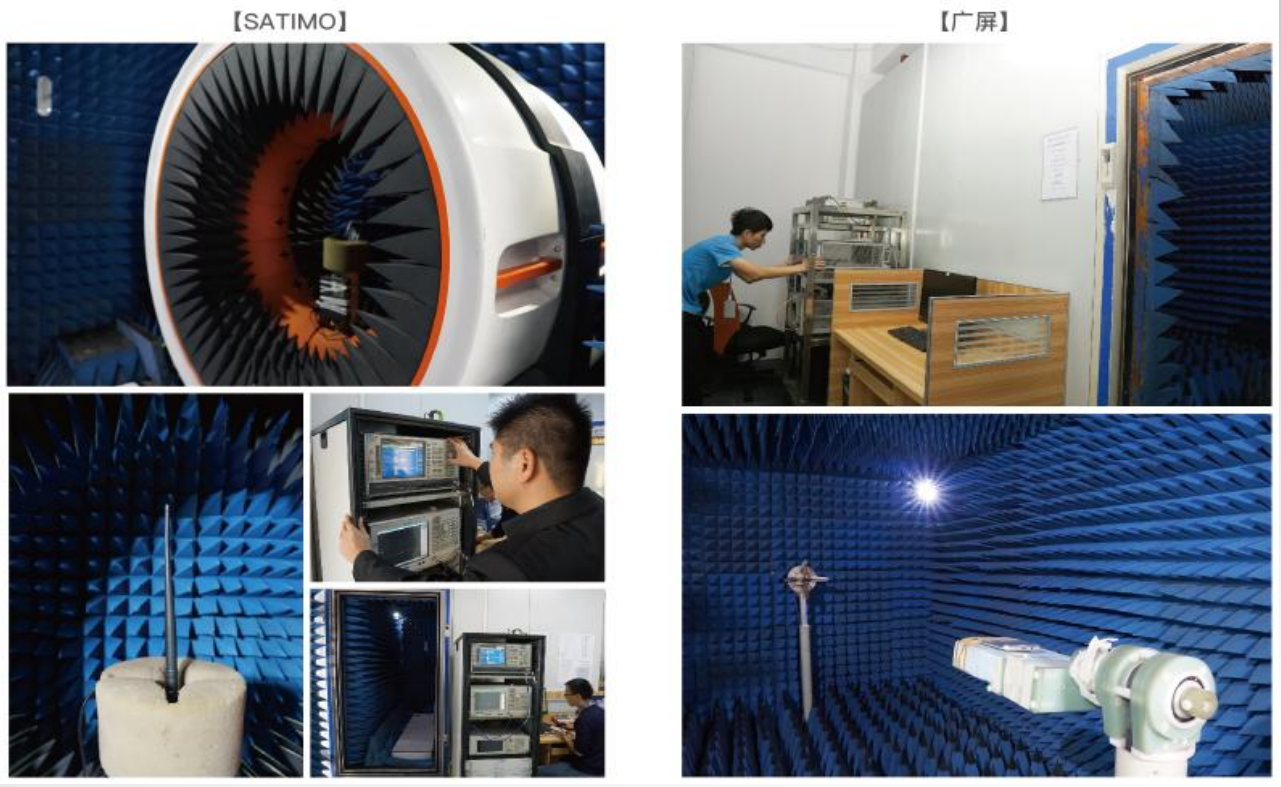
Project overview

basic information:



test macro

- SATIMO，Agilent E5071C，Anristu MT8820C，CMW500,StarPointSP9500

SATIMO暗室–配备

Anritsu综测仪8820c/Agilent网分5071C/Agi–lent综测仪E4438C

广屏暗室–配备

Agilent–综测仪8960/罗德–cmw500

调试网分

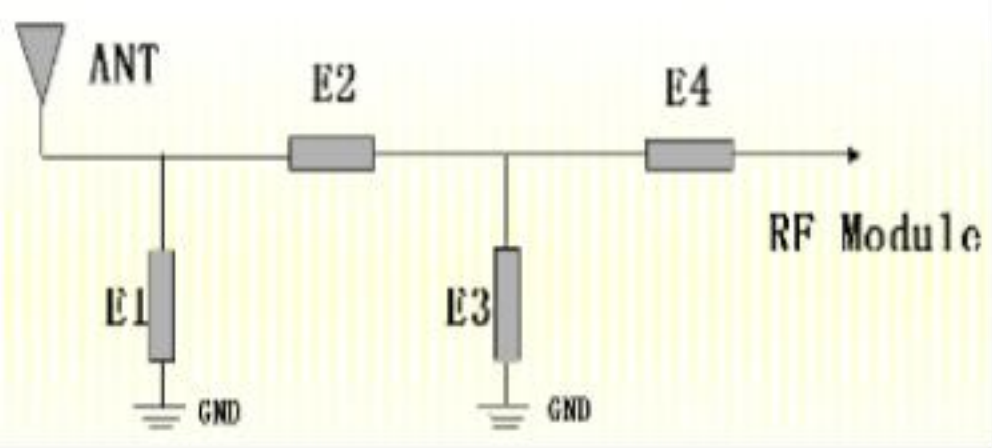
Agilent 网分5071C

basic information:

Complete machine data: machine data

- Manufacture: Qiwo Intelligence
- Add.:41st Floor, Block A, Longhua District Digital Innovation Center, 328 Mintang Road, North Station Community, Minzhi Street, Longhua District
- Project name: **H**F004
- Frequency band information: BT

basic information



antenna loading coil

Antenna circuit matching description

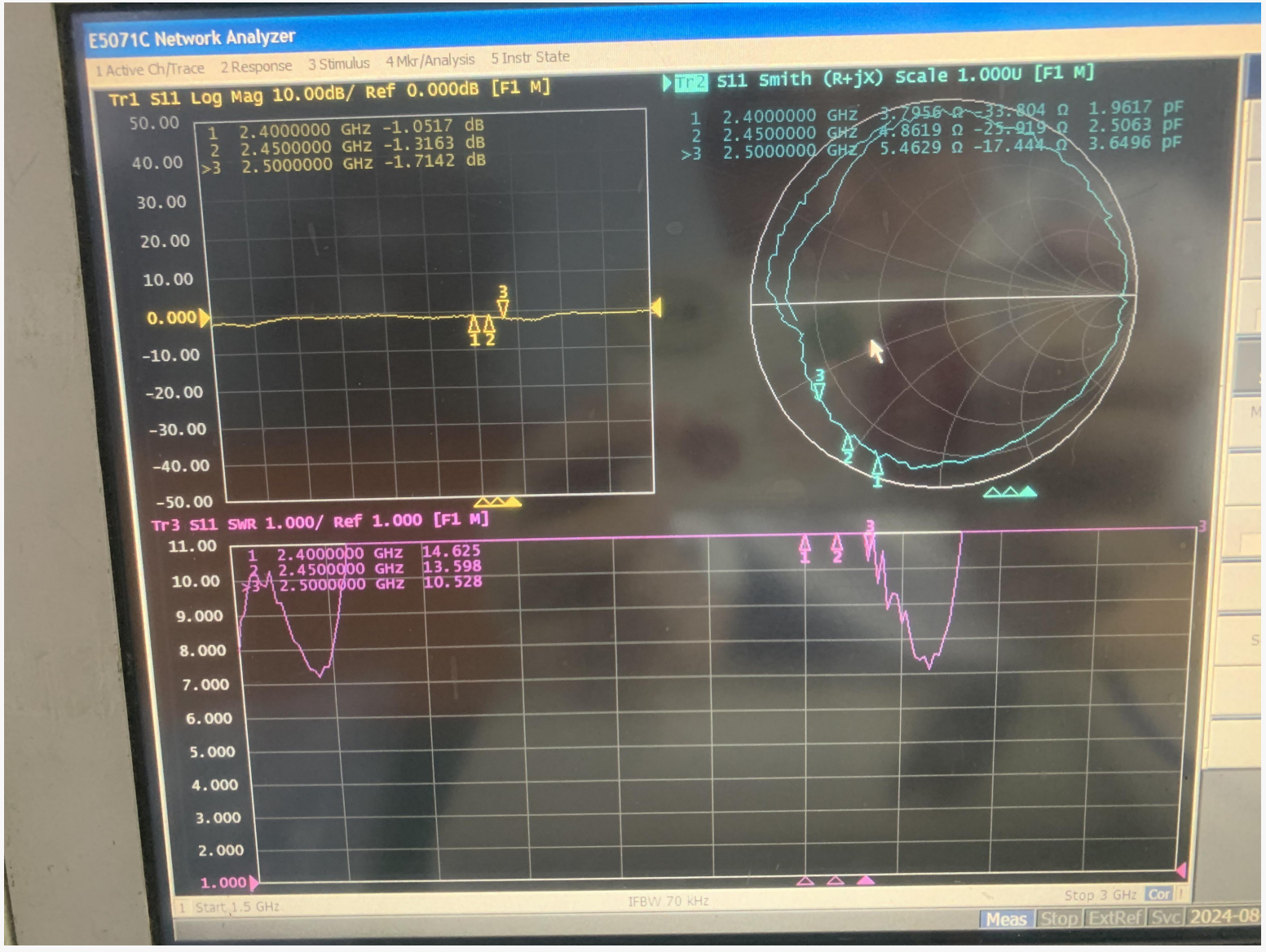
(1) BT antenna and antenna matching

No change

test
data:testdata

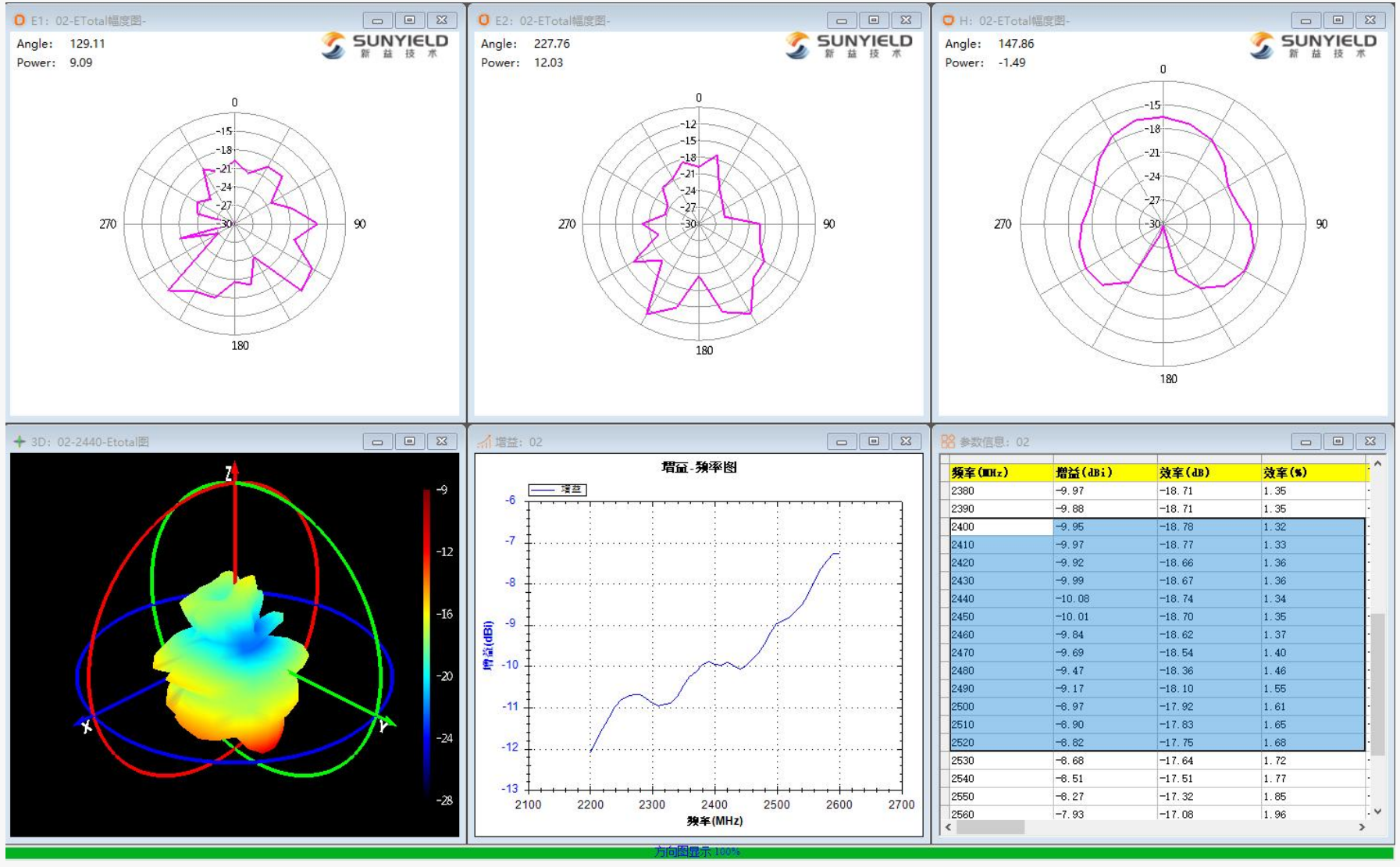
BT antenna passive map- (SWR / Log Mag / Smith)

FPC antenna



test
data:testdata

BT antenna passive data- (efficiency / gain / orientation diagram)

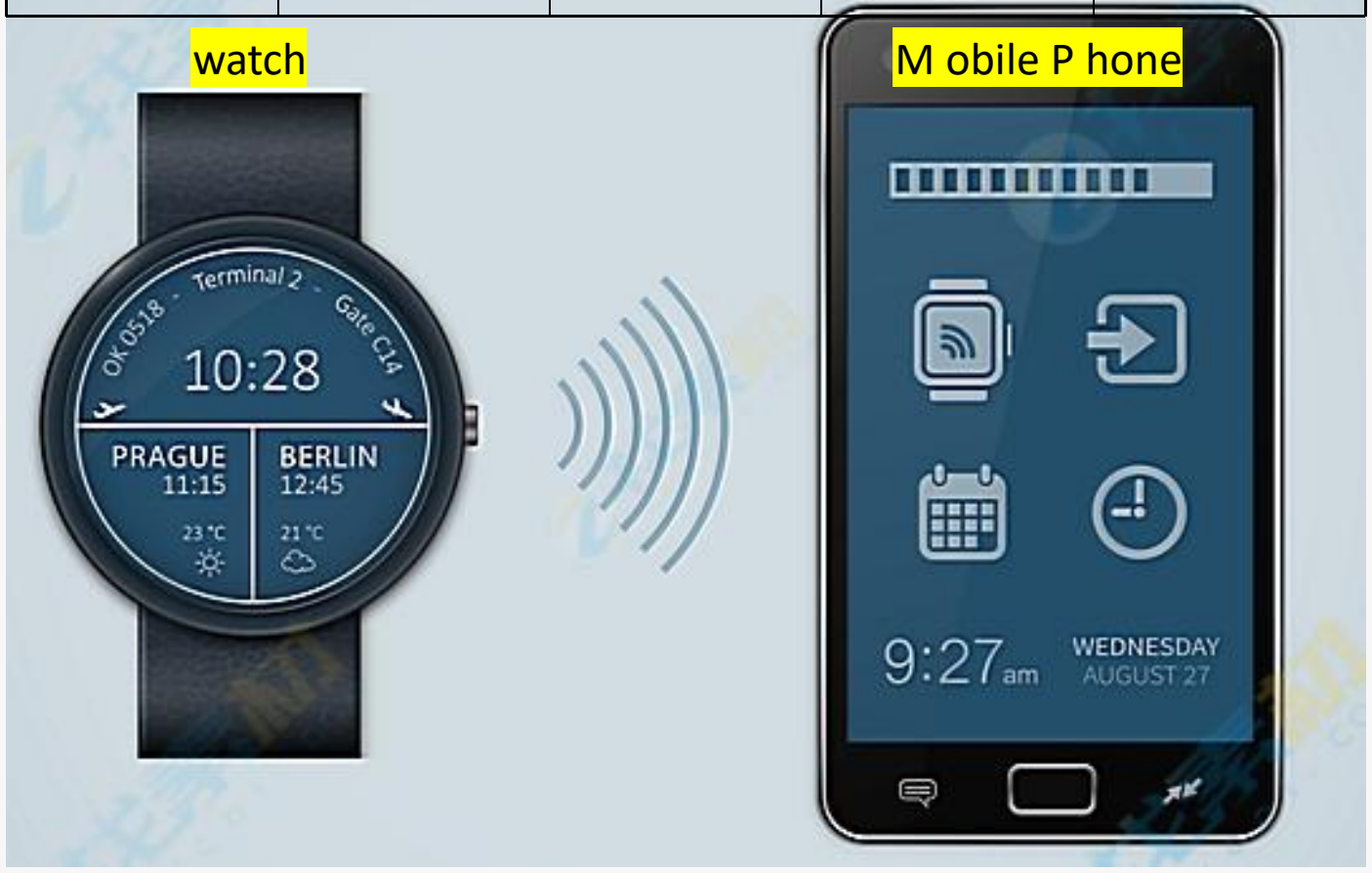


频率(MHz)	增益(dBi)	效率(dB)	效率(%)
2380	-9.97	-18.71	1.35
2390	-9.88	-18.71	1.35
2400	-9.95	-18.78	1.32
2410	-9.97	-18.77	1.33
2420	-9.92	-18.66	1.36
2430	-9.99	-18.67	1.36
2440	-10.08	-18.74	1.34
2450	-10.01	-18.70	1.35
2460	-9.84	-18.62	1.37
2470	-9.69	-18.54	1.40
2480	-9.47	-18.36	1.46
2490	-9.17	-18.10	1.55
2500	-8.97	-17.92	1.61
2510	-8.90	-17.83	1.65
2520	-8.82	-17.75	1.68
2530	-8.68	-17.64	1.72
2540	-8.51	-17.51	1.77
2550	-8.27	-17.32	1.85
2560	-7.93	-17.08	1.96

Play the call measured data:

FPC antenna

test mode	Wear a watch to raise the hand to the chest test, the standard: card distortion			
System model	Android（HUAWEI Mate 50 Pro）			
Indoor / outdoor	indoor	outdoor		
Connection distance	15-16 meters	10-11 meters		



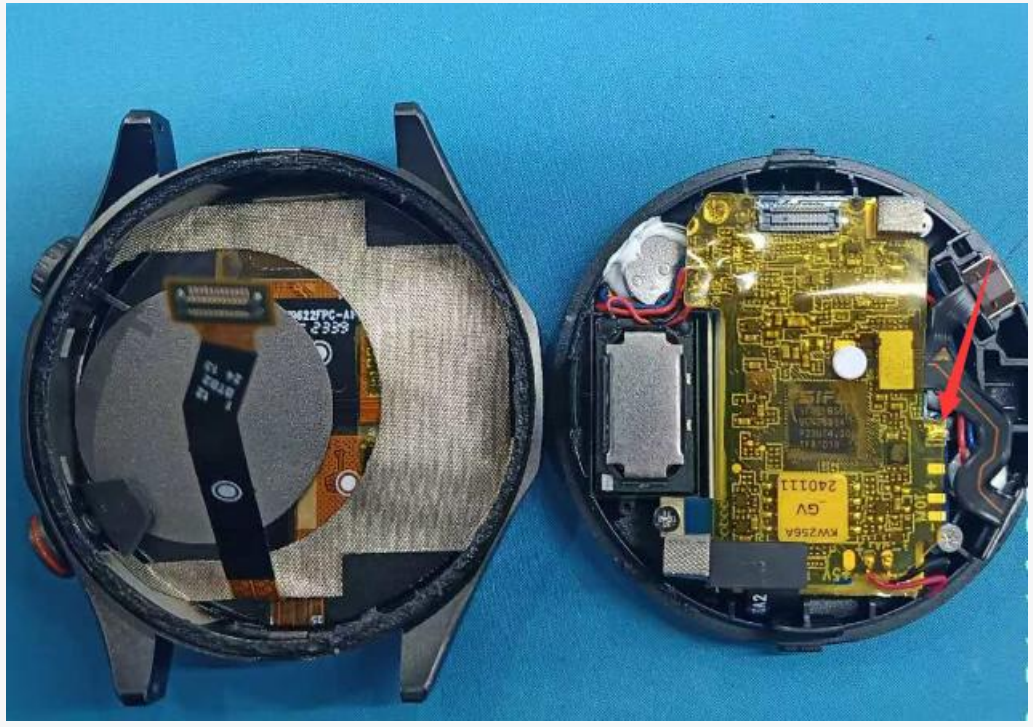
Test data of playing music:

FPC antenna

test mode	Wear a watch, play music, raise your hand to the chest test, lag, and disconnect			
System model	IOS（iPhone XS Max）			
Indoor / outdoor	indoor	outdoor		
Connection distance	15-18 meters	11-12 meters		

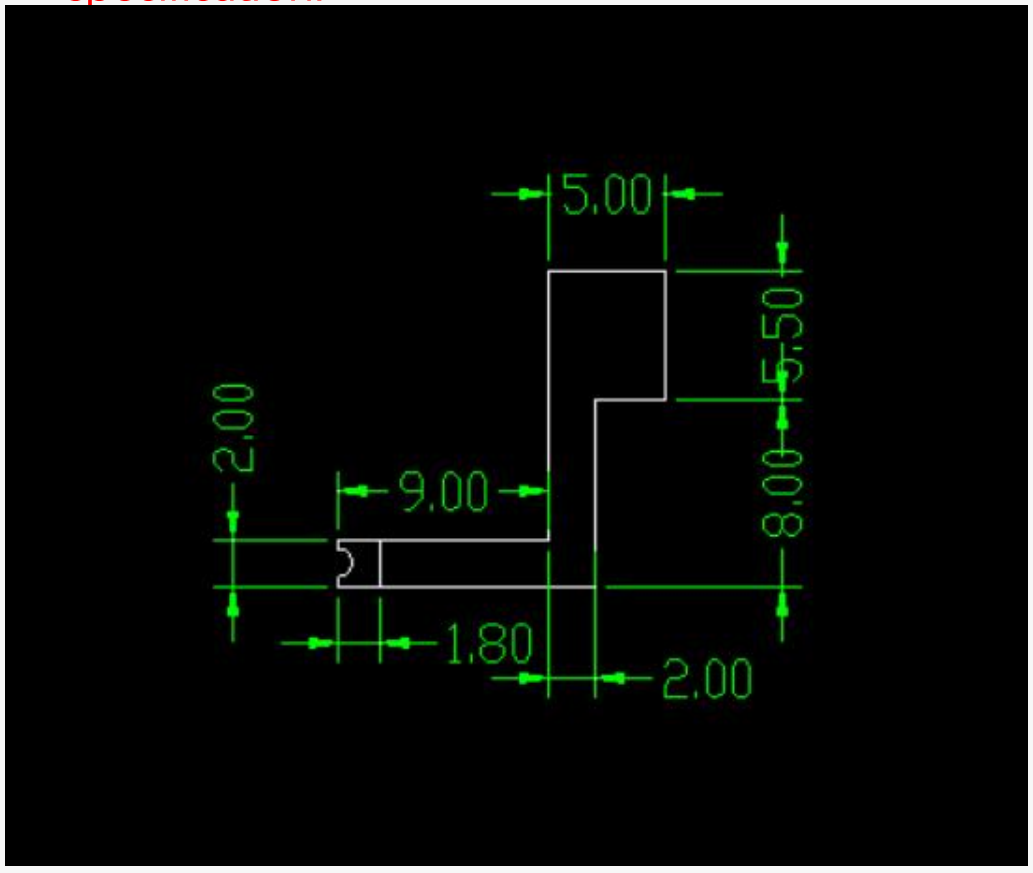
antenna position:

FPC antenna



antenna position:

FPC antenna specification:



Planning summary

Planning to summarize

The above report is LS20 customer machine with passive test report using FPC.

1. No changes in the match.

THANK YOU

May you have a calm heart in the complicated and noisy world

- -Upholding