



Antenna design and data report

Customer name: Dongguan Liesheng Electronic Co., Ltd.

Project name: LS19

Required frequency band: BT

Research and development project: Yang Zongyu

Completion date: August 4, 2023

Manufacture: Shenzhen Kingwear Technology Development Co., Ltd.

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catalogue

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informati

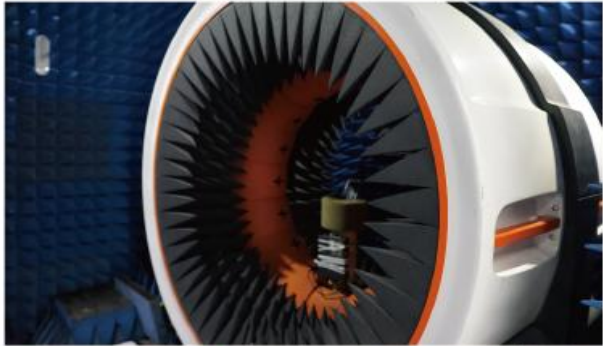
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Basic Information

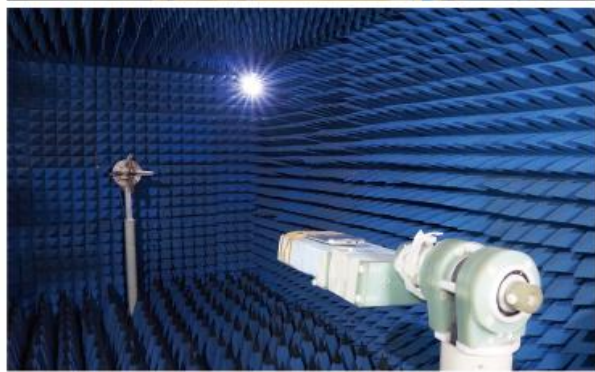
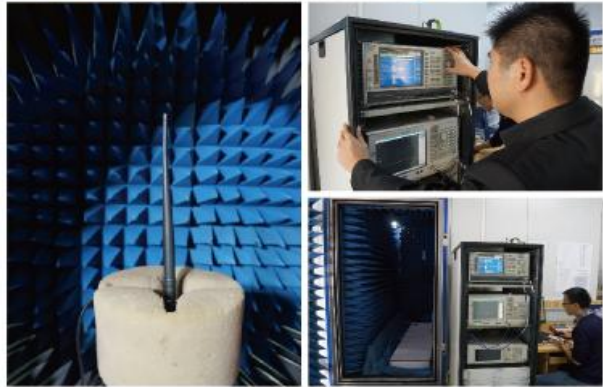


basic
Basic information
Information

【SATIMO】



【广屏】



test macro

➤ SATIMO Dark room equipped:
Anritsu MT8820C /Agilent
E5071C/StarPoint SP9500

➤ The ETS darkroom is equipped with:
CMW500/Agilent 8960

➤ network analyzer:
Agilent E5071C



basic
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S19





test data

Planning to summarize



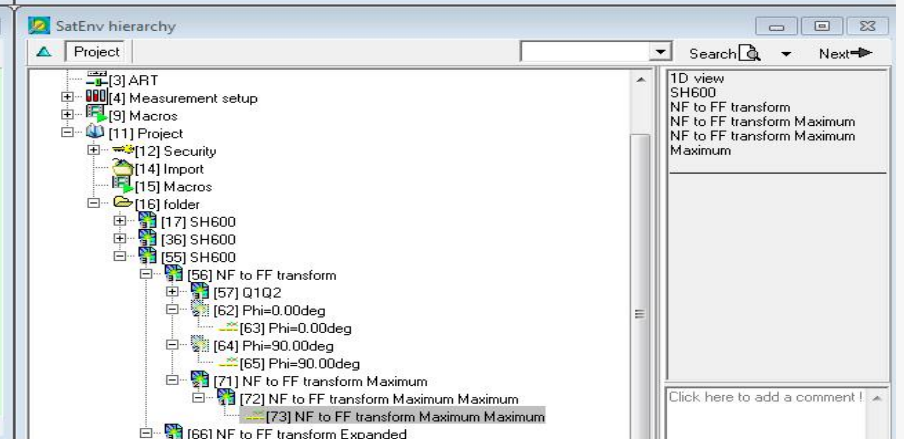
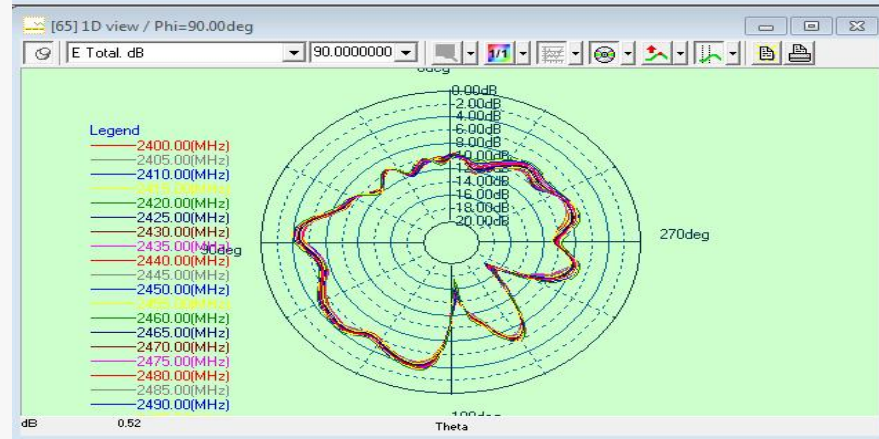
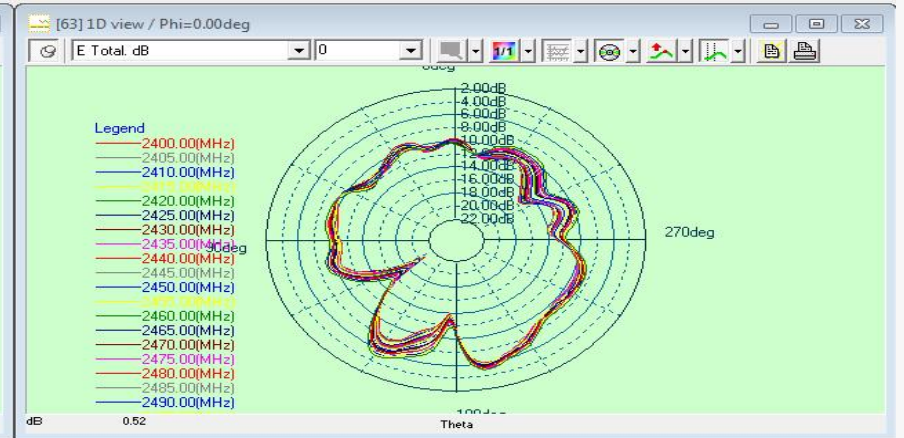
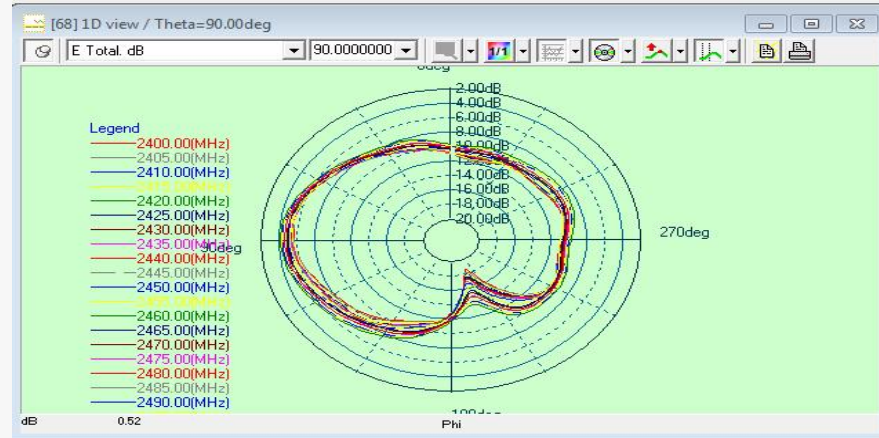
Passive data (loss / Smith / map)





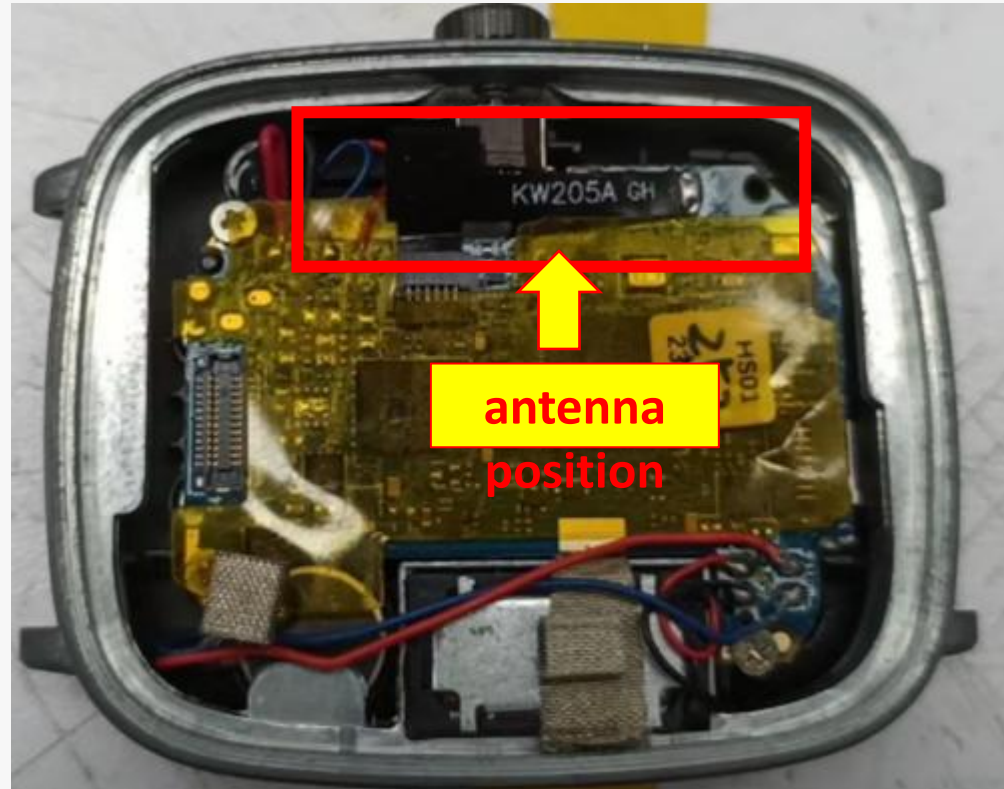
Passive data (efficiency / gain / direction chart)

Frequency	Efficiency()	Gain .dB()
2400MHz	9%	-3.95
2405MHz	9%	-3.64
2410MHz	9%	-3.62
2415MHz	10%	-3.57
2420MHz	10%	-3.48
2425MHz	10%	-3.45
2430MHz	11%	-3.77
2435MHz	11%	-3.74
2440MHz	11%	-3.37
2445MHz	12%	-3.46
2450MHz	12%	-3.53
2455MHz	12%	-3.47
2460MHz	12%	-3.48
2465MHz	11%	-3.53
2470MHz	11%	-3.58
2475MHz	13%	-3.48
2480MHz	12%	-3.24
2485MHz	13%	-2.77
2490MHz	13%	-3.18
2495MHz	13%	-2.88
2500MHz	12%	-2.71



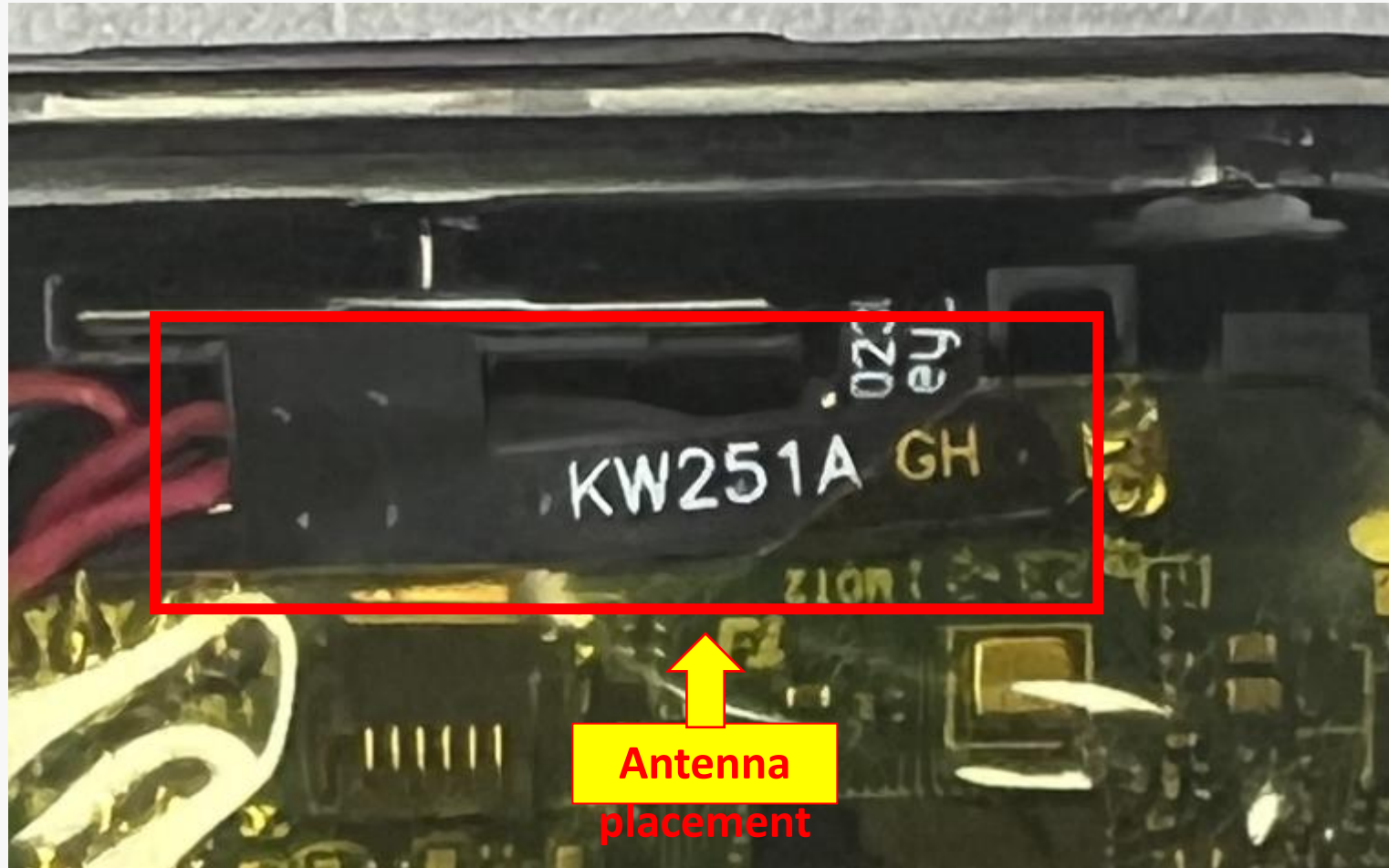


antenna position





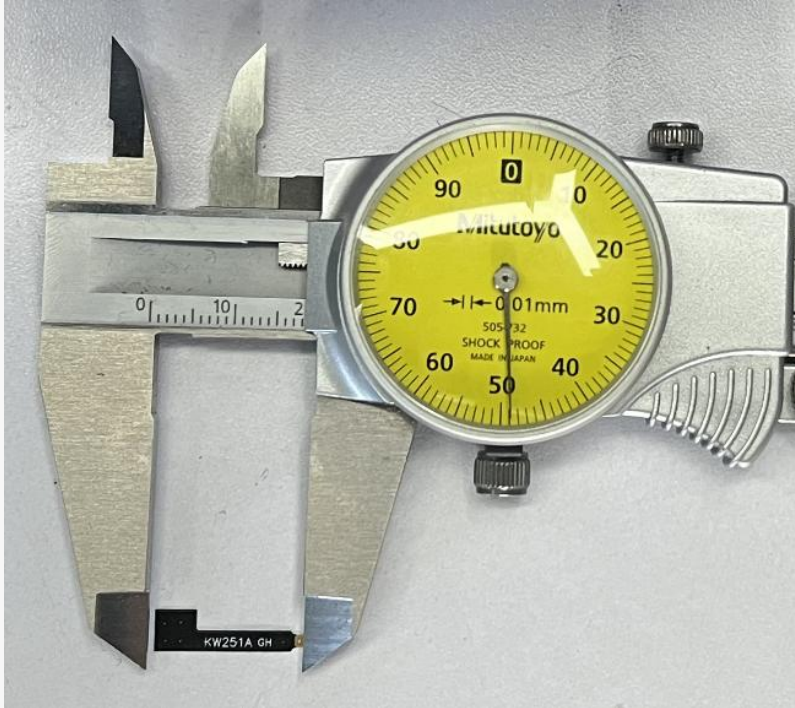
Antenna position / assembly





Antenna specifications

Length: 19.5mm
material quality:FPC





Planning

summary

Planning to summarize

Note: Original machine state test, the motherboard has no changes.



THANK YOU

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

- -Tv

