



Heyuan Xunwei Communication Technology Co., Ltd.

LT008

Antenna Test Report

RF Engineer: Chen Chuanming

Test date: 2025.09.03

Corporate Culture: Talent, Technology, Innovation, Quality, Efficiency, Sharing

Catalog:

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1、test equipment

Comprehensive Tester: CMW500

Network Analyzer: Agilent 5071B

3D Darkroom: SATIMO SG24



2、 Project Basic Information

Customer Name:	Wotewode
Project Name:	LT008
Motherboard Model:	HS63-MB-P1
Subboard Model:	HS63-SUB-P0
Version:	V1.2

3、 Project Change Record Form

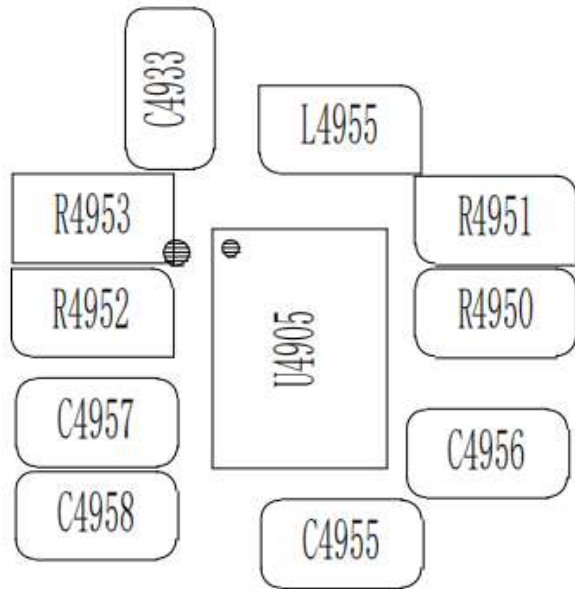
Report Version	date	Description of changes
V1.0	2024.11.07	Initial Antenna Test Report
V1.1	2025.03.15	DVT Antenna Optimization Test Report
V1.2	2025.09.03	Antenna Test Report

4、 Antenna matching circuit

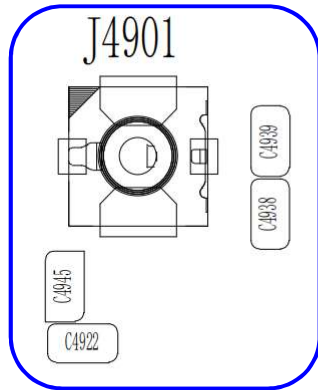
Antenna Name	Match changed	Remarks
MAIN	Yes	4.1~4.2
DIV	Yes	4.3
GWB	Yes	4.4
NFC	Yes	4.6

4.1 MAIN tuning switch circuit configuration (LT008-OTA-NV1)

RFport	bit number	value	Application Bandwidth
RF1	R4953	1NH	W-B1/2/4/8+LTE-B1/2/3/4/7/8/25/38/39/40/41/66
RF2	R4952	4.7NH	W-B5/19+LTE-B5/19/20/26
RF3	R4951	12NH	LTE-B12/13/17/28
RF4	R4950	33NH	LTE-B71

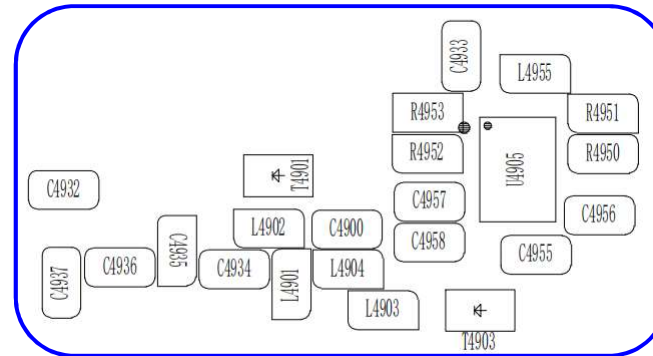


4.2、 Main antenna board matching

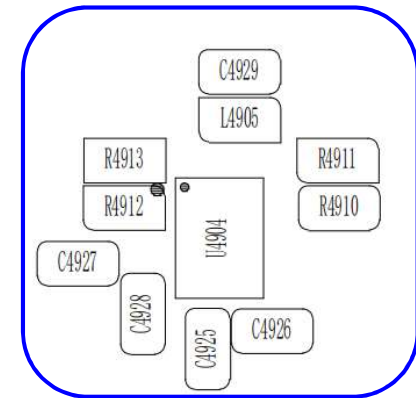


C4939=NC
C4938=0Ω
C4945=
C4922=NC

J4903:
C4932=22PF



J4902:
L4902/L4901=100NH
C4934=22PF
C4935=22NH
C4936=0Ω
C4937=NC
T4901=NC



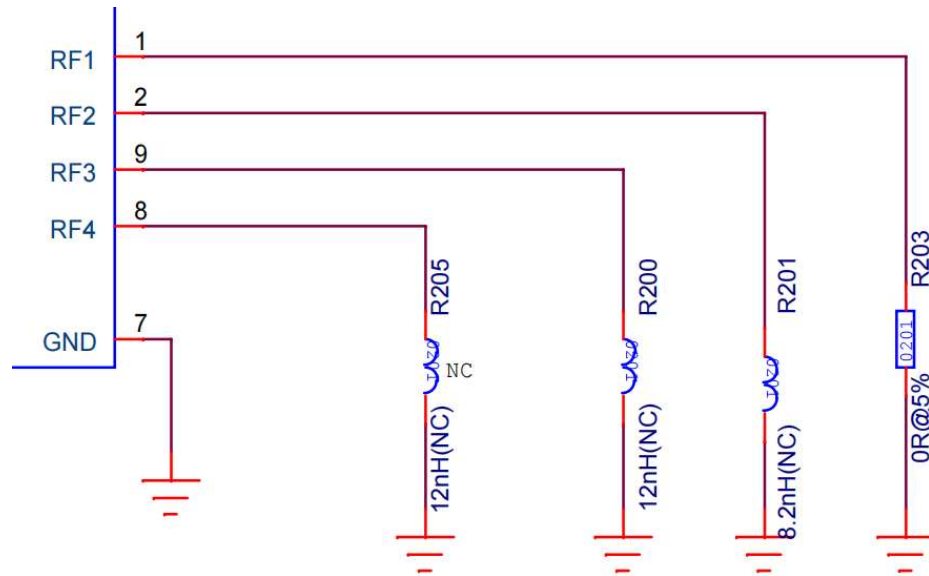
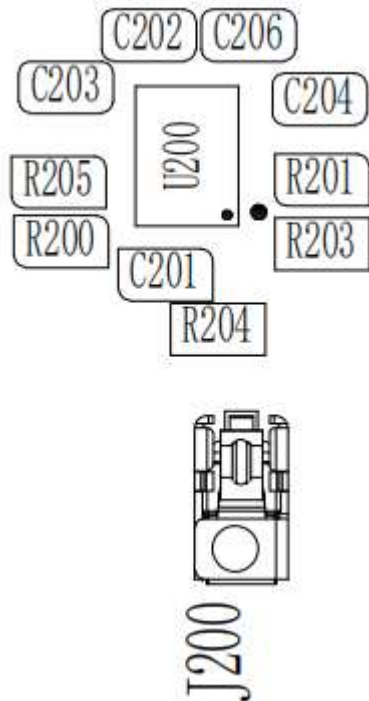
J4905:

去掉弹脚+射频开关匹配

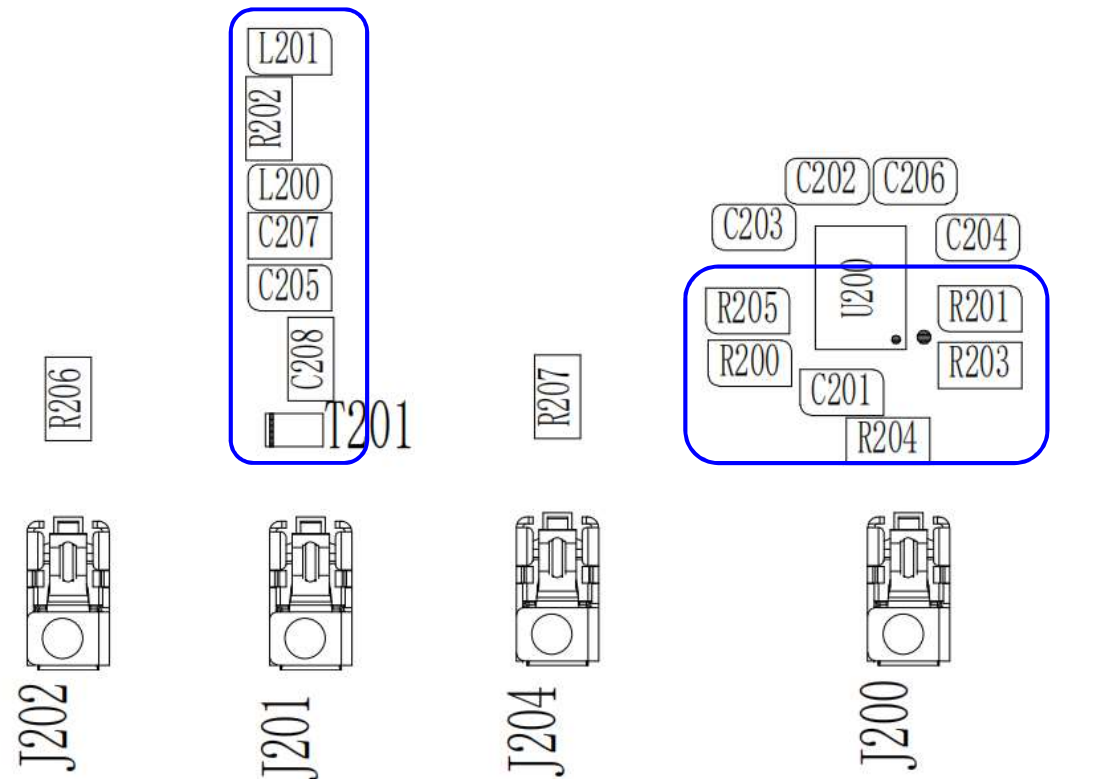
J4904:
C4933=22PF
L4955=120NH
R4953=1NH
R4952=4.7NH
R4951=12NH
R4950=33NH

4.3 DIV Tuning Switch Circuit Configuration (LT008-OTA-NV1)

RFport	bit number	value	Application Bandwidth
RF1	R203	0Ω	W-B1/2/4/8+LTE-B1/2/3/4/7/8/25/38/39/40/41/66
RF2	R201	5.6NH	W-B5/19+LTE-B5/19/20/26
RF3	R200	27NH	LTE-B12/13/17/28
RF4	R205	47NH	LTE-B71



4.4、 Diversity antenna small board matching

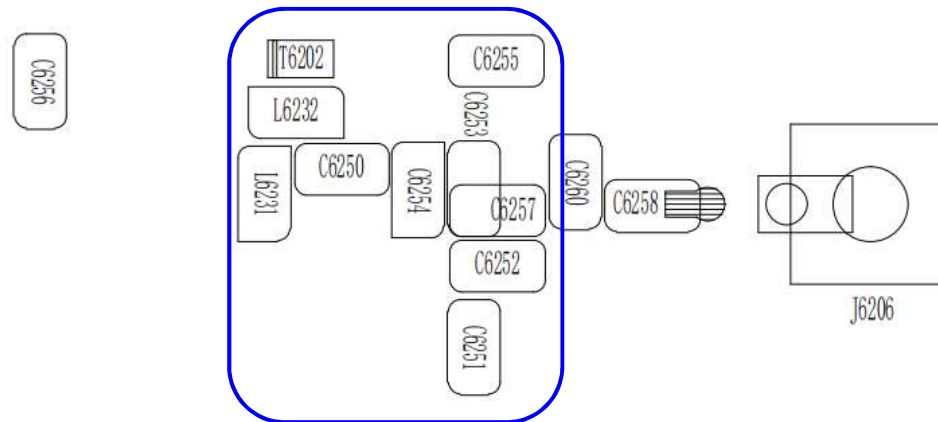
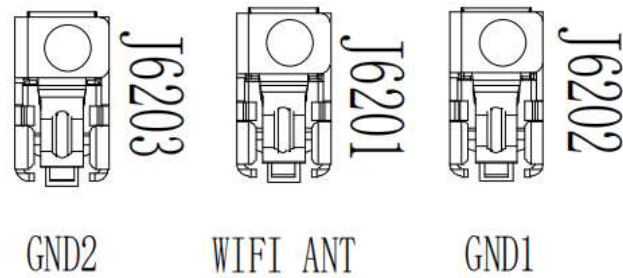


R206/R207=NC

J201: NC
L201=NC
R202=0Ω
L200=NC
C207=0Ω
C205=12NH
C208=0Ω

J200:
R205=0Ω
C201=NC
R203=0Ω
R201=5.6NH
R200=27NH
R205=47NH

4.5、GWB Antenna matching

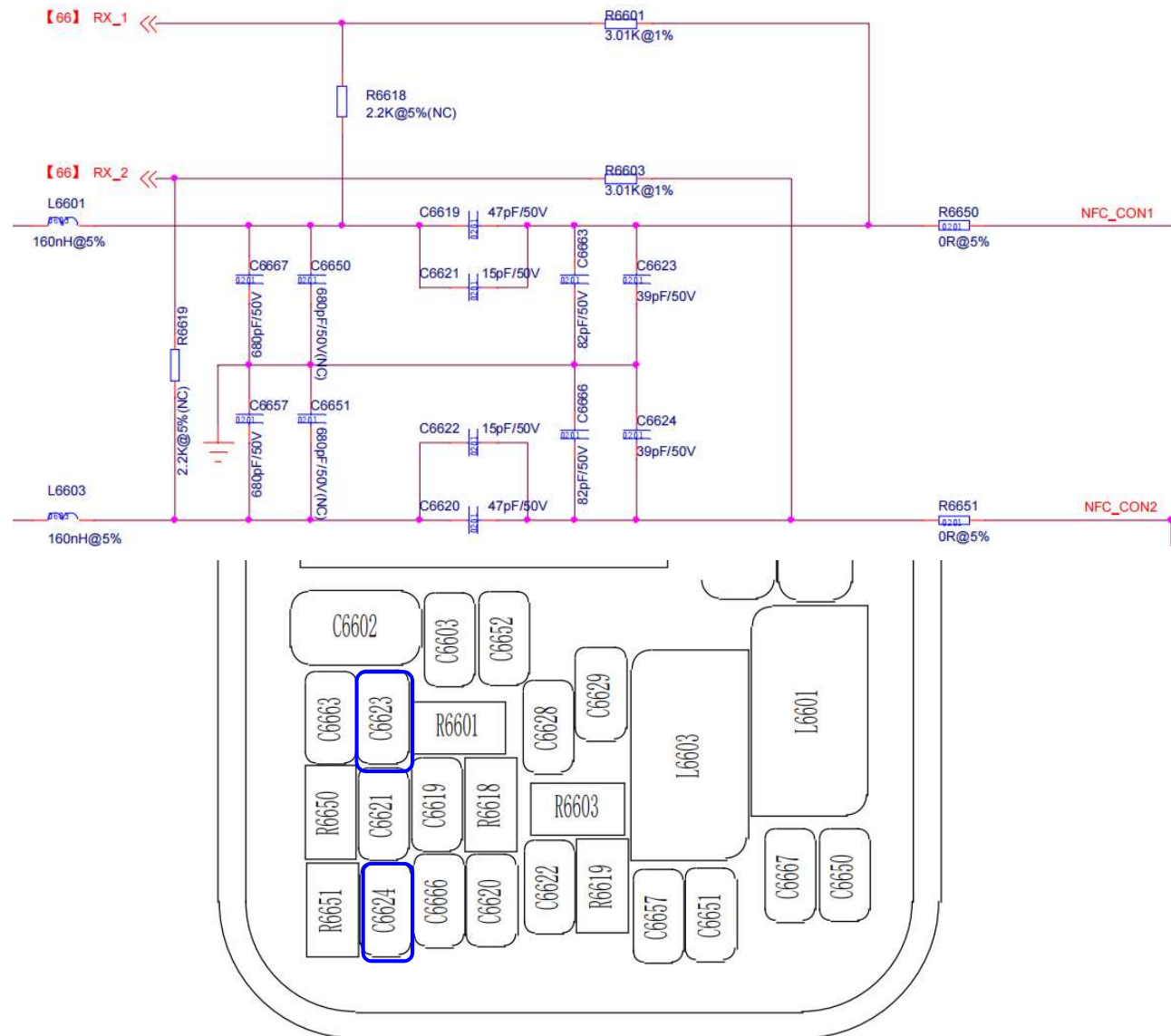


C6526=NC

J6201:
L6232/L6231=100NH
C6250=100NH
C6245=100PF)
C6253=0Ω
C6252=NC
C6251=0Ω T6202=NC

J6202:
C6255=22PF

4.6、NFC antenna matching



C6623/C6624=39PF replacement **68PF**

4.6、 NFC test data

Test item	Standard Card Type	Measure height
Read card	Tag1 (NFCA ISO 14443-3A)	3.0cm
	Tag2 (NFCA ISO 14443-3A)	3.5cm
	Tag3 (NFCF JIS X 6319-4)	2.5cm
	Tag4 (NFCA ISO 14443-4A/B)	2.5cm
	Tag5 (NFCV ISO 15693)	4.5cm

5、 Environmental Treatment and Antenna Improvement Suggestions

6、Contact Us

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Thanks and best regards!

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