

TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Mobile Phone
Model Name: 25057RN09G
Brand Name: Redmi
FCC ID: 2AFZZRN09G
Test Standard: 47 CFR Part 96.47
(Others refer to chapter 3.1)
Sample Arrival Date: May 12, 2025
Test Date: May 13, 2025 - Jun. 13, 2025
Date of Issue: Jun. 18, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Jiamin.Lu*Jiamin.Lu***Checked by:** Wu Huihui*Wu Huihui***Approved by:** Tolan Tu
(Testing Director)*Tolan Tu*

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Jun. 18, 2025	Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	25057RN09G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135300O19
Software Version	Xiaomi HyperOS 2.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S14
IMEI Number	S14: IMEI1: 868392070081460; IMEI2: 868392070081478

2.4 Technical Information

The following is the technical information of the EUT tested frequency bands in this report.

Operating Bands		4G Network TDD LTE Band 48 5G Network NR: SA n48	
Antenna Type		PIFA Antenna	
Product Type		End User Device	
Band	Power Class	Tx Frequency Range	Rx Frequency Range
LTE B48	3	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz
NR n48	3	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz
Note 1: The EUT is a mobile phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA, LTE and NR. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.			

Note1: The EUT information provided by the applicant. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	End user device additional requirements.	96.47	ANNEX A.1	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the environmental conditions were within the listed ranges:

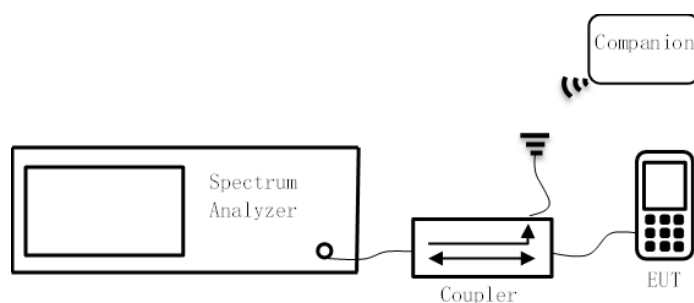
Relative Humidity		20% to 75%
Atmospheric Pressure		98 kPa to 102 kPa
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
CBRS Test System						
Spectrum Analyzer	keysight	N9020A	MY50531628	A.16.09	2025-04-30	2026-04-29
LTE Base Station	Baicells	mBS31001	12020002401 9APP0129	N/A	N/A	N/A
5G NR Base Station	Baicells	BSC7048A243	AP21RBAA N0300107	N/A	N/A	N/A

4.3 Test Setup

4.3.1 For Conducted Test



(Diagram 1)

5 TEST ITEMS

5.1 End user device additional requirements

5.1.1 Limit

FCC § 96.47

(a)End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

(1)An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

5.1.2 Test Setup

The section 4.3.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Ruckus CBSD (FCC ID: 2AG32BSC7048A243) as companion device to show compliance with Part 96.47 requirement for End User Device(EUD):

1. Setup with frequency 3605-3625MHz and power level 17dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check EUD Tx Frequency and power
4. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.
5. Setup with frequency 3670-3690MHz and power level 7dBm/MHz
6. Enable AP service from Ruckus Cloud management
7. Check EUD Tx Frequency and power
8. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.

5.1.4 Test Result

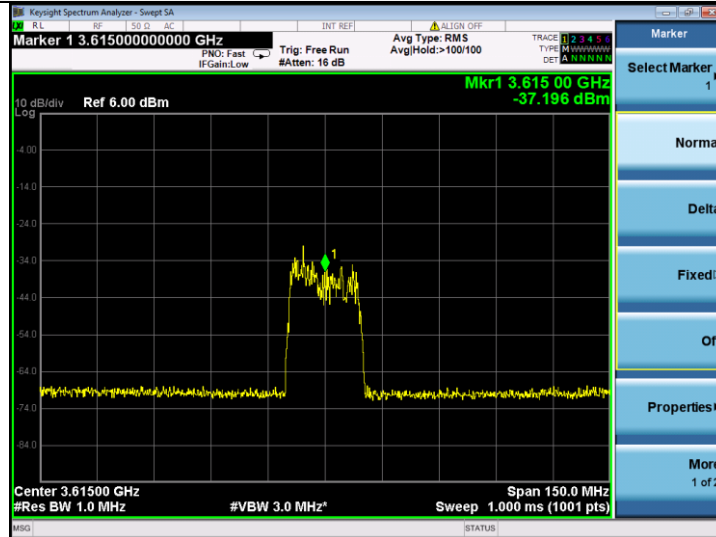
Please refer to ANNEX A.1.

ANNEX A TEST RESULTS

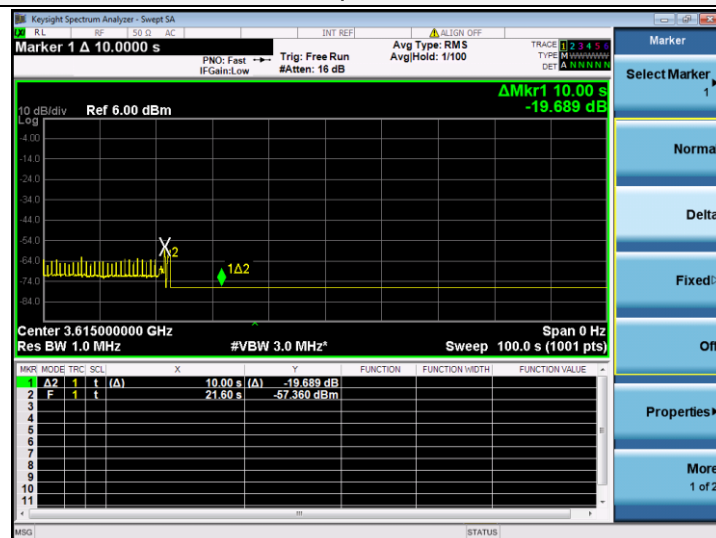
A.1 End user device additional requirements

Test Band: CBSD transmit at frequency 3605-3625MHz of LTE B48

Frequency Operation

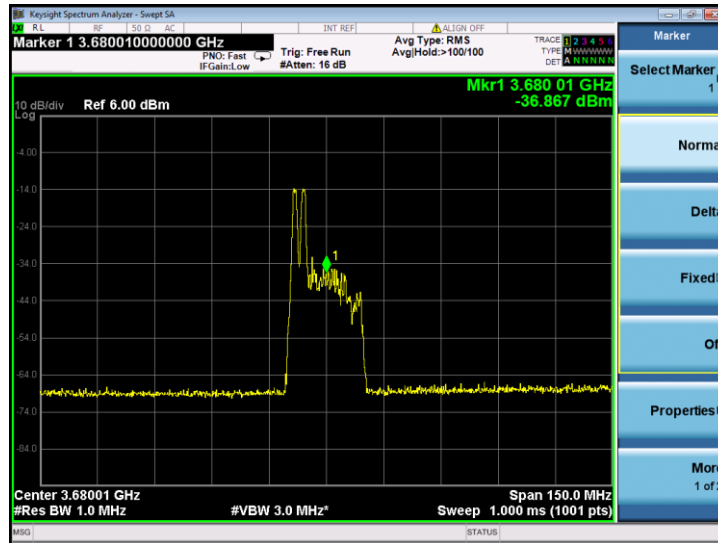


Discontinues Operations within 10s

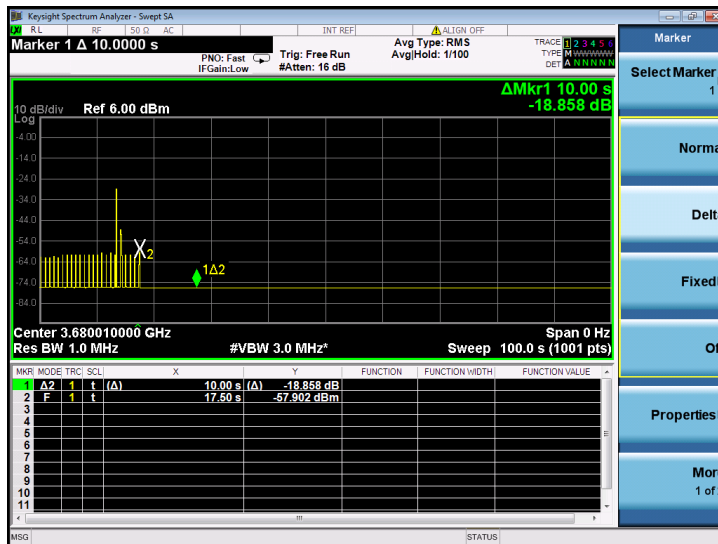


Test Band: CBSD transmit at frequency 3670-3690MHz of LTE B48

Frequency Operation

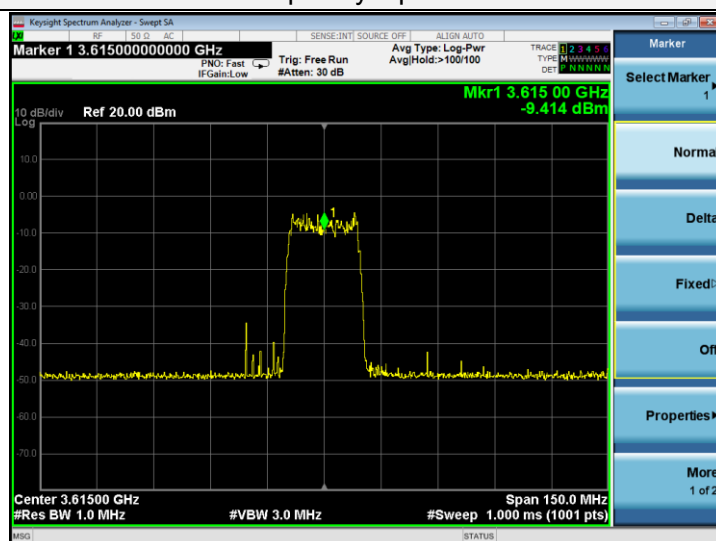


Discontinues Operations within 10s

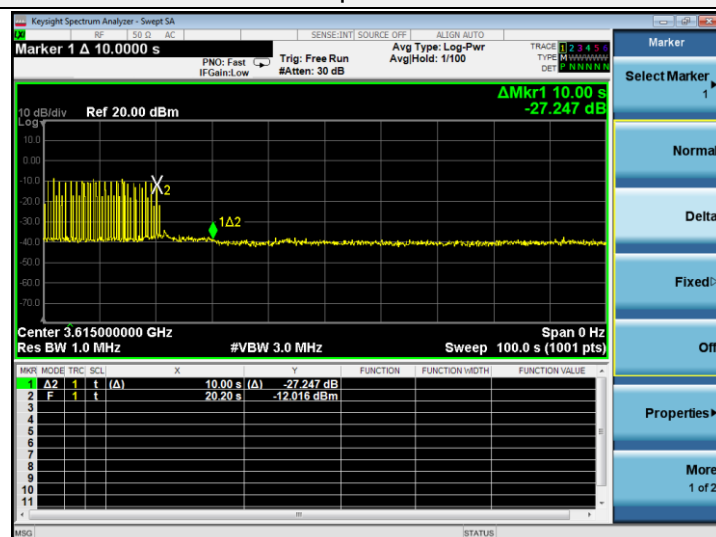


Test Band: CBSD transmit at frequency 3605-3625MHz of n48

Frequency Operation

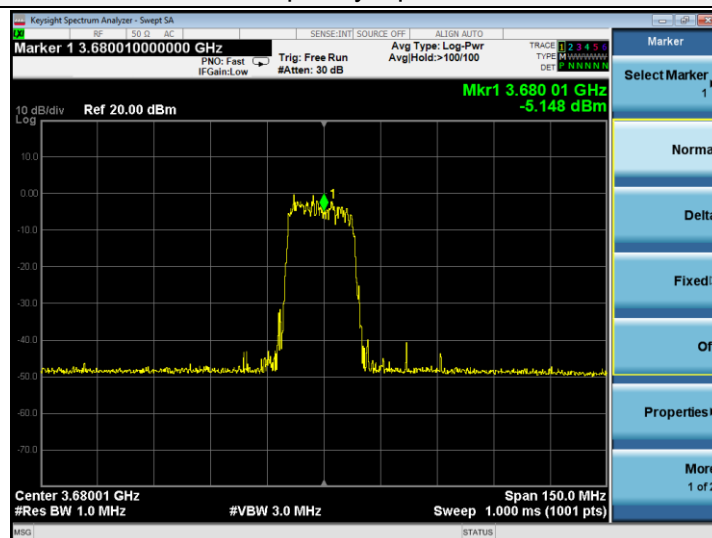


Discontinues Operations within 10s

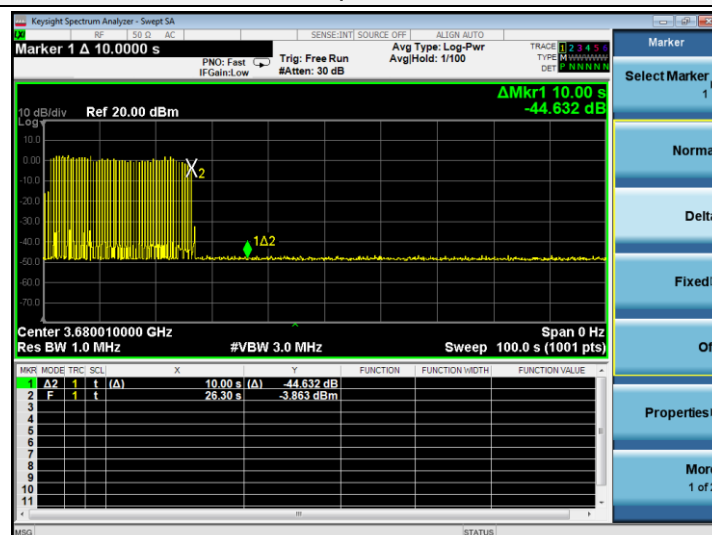


Test Band: CBSD transmit at frequency 3670-3690MHz of n48

Frequency Operation



Discontinues Operations within 10s



ANNEX B TEST SETUP PHOTOS

Please refer to the document “BL-SZ2550149-AR-1.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--