

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900315201 Page: 1 of 12

TEST REPORT

Application No.:	SZCR2309003152AT		
Applicant:	Xiaomi Communications Co., Ltd.		
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, C hina, 100085		
Manufacturer:	Xiaomi Communications Co., Ltd.		
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, C hina, 100085		
Equipment Under Test (EU	Т):		
EUT Name:	Mobile Phone		
Model No.:	23113RKC6G		
Trade Mark:	POCO		
FCC ID:	2AFZZRKC6G		
Standard(s) :	FCC Part 96.47		
	FCC KDB 940660 D01 Part 96 CBRS Eqpt v03		
	WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines		
Date of Receipt:	2023-09-20		
Date of Test:	2023-11-03 to 2023-11-06		
Date of Issue:	2023-11-06		
Test Result:	Pass*		

* In the configuration tested, the EUT complied with the standards specified above.

Keny. Ku

Keny Xu EMC Laboratory Manager



Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023-11-06		Original	

Authorized for issue by:		
	Bonson Wang	
	Benson Wang/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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2 **Test Summary**

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC Part 96.47 FCC KDB 940660 D01 Part 96 CBRS Eqpt v03 WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.89V from internal rechargeable battery which can be charge by AC/DC adapter
Sample Type:	Mobile Phone
CBSD Class:	End User device
Transmitter Frequency Band:	5G NR: n48
Transmitter Frequency Range:	3550~3700MHz
Hardware Version:	13510N11
Software Version:	Xiaomi HyperOS 1.0
Max Antenna Gain:	-2.5dBi (ANT 7)
Antenna Type:	PIFA Antenna

4.2 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	RF conducted power	± 0.75dB
3	Temperature test	± 1 ℃
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.3 Description of Support Units

Description Manufacturer		Model No.	Serial No.	
DP	Lanner Electronics Inc.	LICA-1513A	/	
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052	
Router	TP-LINK	TL-R860+	1175379002425	
		BSC7048A243		
5G NR Base station	Baicells	(FCC ID: 2AG32BSC7048A243)	1202000577233VB0002	

4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch



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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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Equipment List 5

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Laptop	Samsung	930XCJ	REF.	/	/
(With SAS Test hamess)	Carribarig	000/100	No.SEA1900		
Spectrum Analyzer	Keysight	N9020A	SEM004-21	2023-03-20	2024-03-19
Shield Room	SAEMC	MSR433	SEM001-11	2021-03-13	2024-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-11	2024-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Splitter	MACOM	2090-6214-00	N/A	N/A	N/A
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27



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6 Test Method and Environment

6.1 End User Device Conformance and Performance

Test Requirement:FCC Part 96.47Test Method:WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

6.2 Test Environment

Environmental Conditions: 25deg. C, 65%RH

6.3 Test Requirement

FCC Part 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.

b). 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.

6.4 Test Procedure

For NR:

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

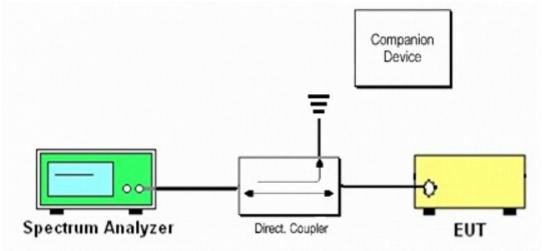
- 1. Setup with frequency 3590-3610MHz and power level 18dBm/MHz;
- 2. Enable CBSD service ;
- 3. Check EUD Tx Frequency and power;
- 4. Disable CBSD service ;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with frequency 3610-3630MHz and power level 8dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.



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6.5 Test Setup



End User Device as UUT, the companion device is certified CBSD

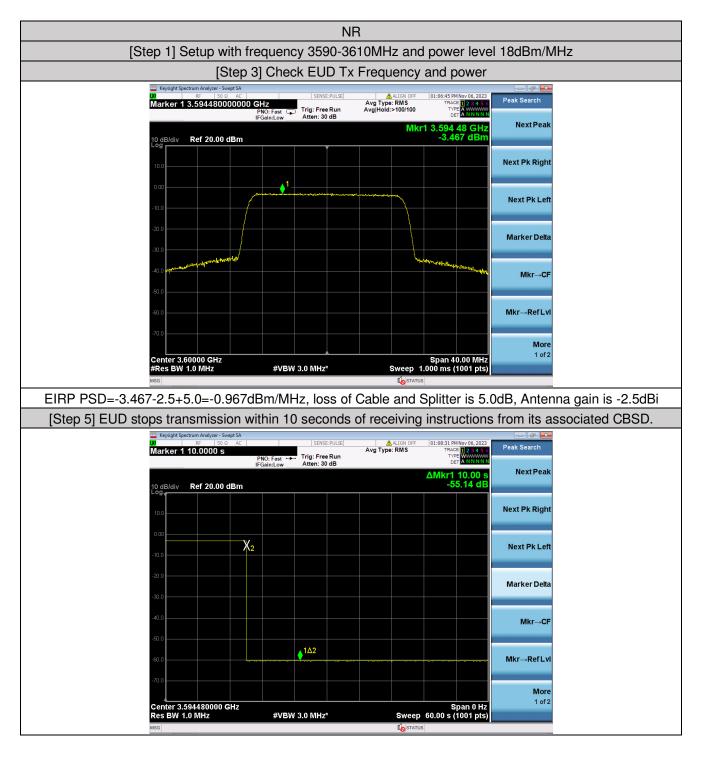


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6.6 Test Result

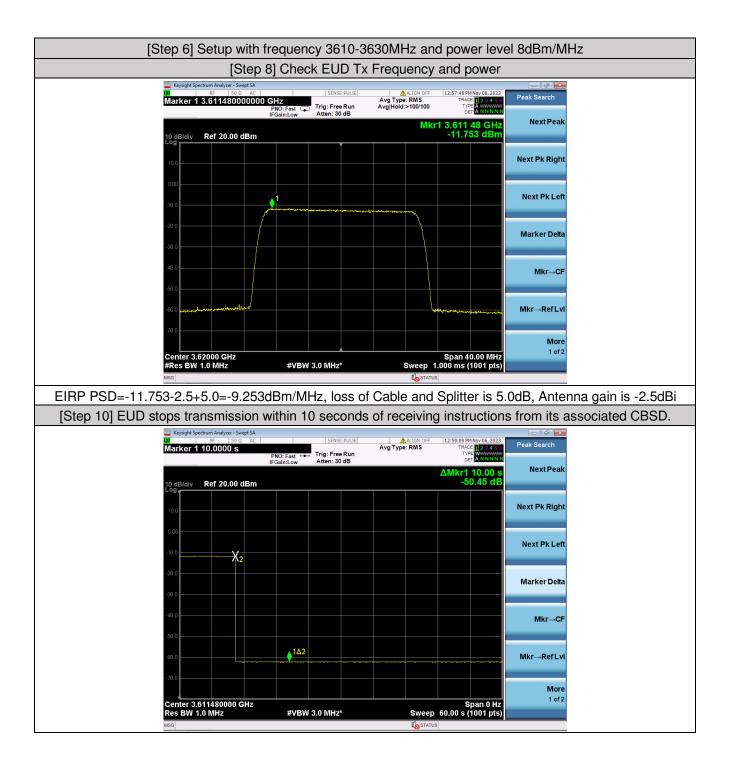




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7 Photographs

7.1 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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