

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

Report No.: SZCR240300076711

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TEST REPORT

Application No.: SZCR2403000767WM **Applicant:** Sonim Technologies, Inc.

Address of Applicant: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

Manufacturer: Sonim Technologies, Inc.

Address of Manufacturer: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

Equipment Under Test (EUT):

EUT Name: smartphone

 Model No.:
 X800

 Type No.:
 S6002

 Trade Mark:
 Sonim

 FCC ID:
 WYPS6002

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: 2024-03-07

Date of Test: 2024-07-31 to 2024-08-07

Date of Issue: 2024-08-09

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. xu



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



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2024-08-09		Original		

Authorized for issue by:			
	Calvin Weng		
	Calvin Weng/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	_	



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Test Summary 2

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.

DC3.87V by Li-ion battery(5000mAh)		
Recharged by AC/DC power adapter		
Adapter M/N:1-CHUSQ302-097		
Adapter Manufacturer: HUIZHOU PUAN ELEOTRONICS CO.,LTD		
Adapter output: 5V/3A,9V/2A,12V/1.5A		
Battery M/N:BAT-05000-21S		
Battery Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd.		
Portable		
End User device		
V1.0		
X80.0-01-14.0-15.26.00		
LTE: Band 48		
5G NR: n48		
3550~3700MHz		
-1.2dBi (Provided by manufacturer)		
PIFA Antenna		

4.2 Measurement Uncertainty

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



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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	
LTE Base Station	Baicells	mBS31010 (FCC ID: 2AG32MBS31010)	120300010220B6B0002	
5G NR Base station	Baicells	BSC7048A243 (FCC ID: 2AG32BSC7048A243)	1202000577233VB0002	



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4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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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5 **Equipment List**

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Laptop (With SAS Test hamess)	Lenovo	T14	/	/	/
Spectrum Analyzer	Keysight	N9020B	SEM004-24	2024-03-20	2025-03-19
Shield Room	SAEMC	MSR433	SEM001-11	2024-03-13	2027-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
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	2024-07-27	2025-07-26



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Test Method and Environment 6

End User Device Conformance and Performance

FCC Part 96.47 Test Requirement:

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines Test Method:

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 LTE:

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: 2AG32MBS31010) 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;
- Enable CBSD service ;
- 3. Check EUD Tx Frequency and power;
- 4. Disable CBSD service;
- Check EUD stops transmission within 10seconds;
- 6. Setup with frequency 3610-3630MHz and power level 5dBm/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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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 5dBm/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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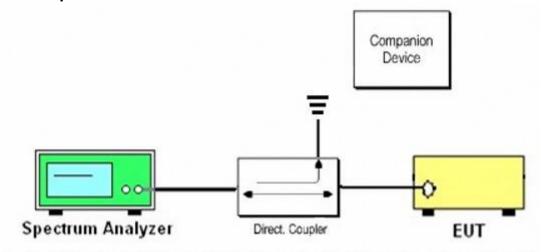


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6.5 Test Setup



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



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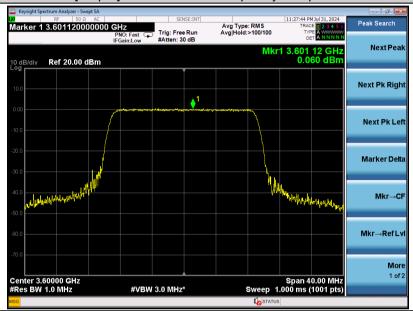
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6.6 Test Result

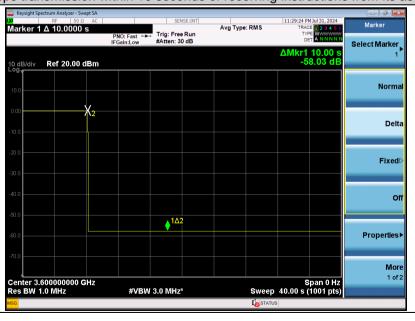
LTE

[Step 1] Setup with frequency 3590-3610MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=0.060-1.2+5.0=3.86dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.2dBi [Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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[Step 6] Setup with frequency 3610-3630MHz and power level 5dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-14.819-1.2+5.0=-11.019dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.2dBi

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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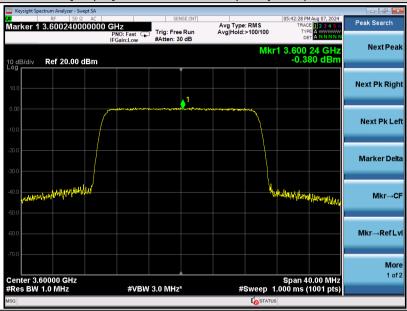
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NR

[Step 1] Setup with frequency 3590-3610MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-0.38-1.2+5.0=3.42dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.2dBi

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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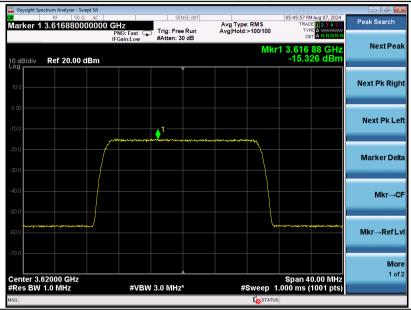
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Report No.: SZCR240300076711

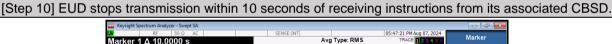
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[Step 6] Setup with frequency 3610-3630MHz and power level 5dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-14.802-3.6+5.0=-13.402dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -3.6dBi







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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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