

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

Report No.: SZCR230900305801

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TEST REPORT

Application No.: SZCR2309003058AT

Applicant: Shenzhen Tinno Mobile Technology Corp.

Address of Applicant: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South

Road, Xili Community, Xili Street, Nanshan District, Shenzhen, PRC

Manufacturer: Shenzhen Tinno Mobile Technology Corp.

Address of Manufacturer: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South

Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

Equipment Under Test (EUT):

EUT Name: Smart Phone

Model No.: Celero3 5G

FCC ID: XD6U653DS

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: 2023-10-11 to 2023-10-12

Date of Issue: 2023-10-13

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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	Revision Record					
Version	Remark					
01		2023-10-13		Original		

Authorized for issue by:		
	Benson Wong	
	Benson Wang/Project Engineer	-
	Exic 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 3.85V from internal rechargeable battery which can be charge by AC/DC adapter
Sample Type:	Mobile Phone
CBSD Class:	End User device
Transmitter Frequency Band:	LTE: Band 48;
	5G NR: n48
Transmitter Frequency Range:	3550~3700MHz
Hardware Version:	V1.0
Software Version:	N/A
Antenna Gain:	ANT5: -1dBi (Provided by manufacturer)
Antenna Type:	PIFA

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%

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	
LTE Base Station Baicells		mBS31010 (FCC ID: 2AG32MBS31010)	120300010220B6B0002	



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FC ND Page		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

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)	Samsung	930XCJ	REF. 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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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;
- 2. Enable CBSD service;
- 3. Check EUD Tx Frequency and power;
- Disable CBSD service ;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with frequency 3630-3650MHz 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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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 3630-3650MHz 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 3590-3610MHz 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.



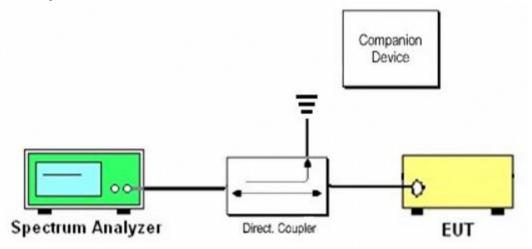


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6.5 Test Setup



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



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6.6 Test Result

LTE

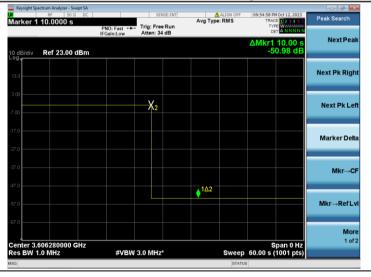
[Step 1] Setup with frequency 3590-3610MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-2.643-1+5.0=1.357dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.0dBi

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





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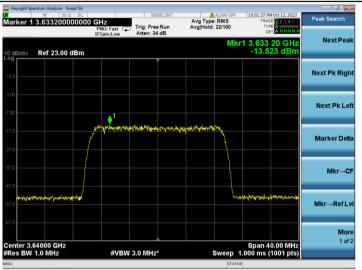
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[Step 6] Setup with frequency 3630-3650MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-13.523-1+5.0=-9.523dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.0dBi

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





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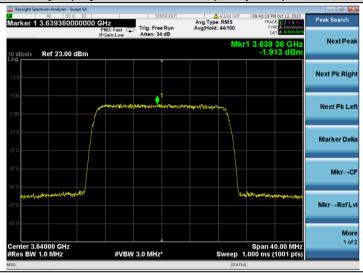
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NR

[Step 1] Setup with frequency 3630-3650MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-1.913-1+5.0=2.087dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.0dBi [Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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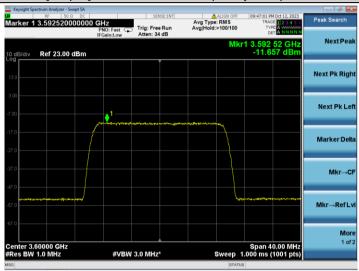
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[Step 6] Setup with frequency 3590-3610MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-13.958-1+5.0=-9.958dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is -1.0dBi

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





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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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