

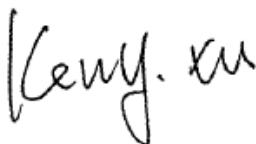
Report No.: SZCR210502107101  
Page: 1 of 12

## **TEST REPORT**

**Application No.:** SZCR2105021071AT  
**Applicant:** Baicells Technologies Co., Ltd.  
**Address of Applicant:** 9-10F, 1stBldg., No.81BeijingRoad, Haidian District, Beijing, China  
**Equipment Under Test (EUT):**  
**EUT Name:** LTE CAT-15 ODU EUD  
**Model No.:** EG8015G-M11-EUD  
**Trade Mark:** Baicells  
**FCC ID:** 2AG32EG8015GM11EUD  
**Standard(s) :** FCC Part 96.47  
FCC KDB 940660 D01 Part 96 CBRS Eqpt v02  
WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification  
WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines  
**Date of Receipt:** 2021-05-24  
**Date of Test:** 2021-05-24 to 2021-05-25  
**Date of Issue:** 2021-05-25

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

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



Keny Xu  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-25		Original

Authorized for issue by:			
		Jacky Li /Project Engineer	
		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 v02

WINNF-TS-0122-V1.0.1 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:	Adapter Model NO.: G0720-240-050 Input: AC100-240V 50/60Hz 0.75A Output: DC 24.0V 0.5A
Cable:	DC cable: 100cm unshielded
Sample Type:	End User device
Transmitter Frequency Band:	LTE Band 48
Transmitter Frequency Range:	3550~3700MHz
Hardware Version:	EG8015-MX VER.B
Software Version:	0.0.0-DBG
Antenna Gain:	18dBi

### 4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	RF conducted power	$\pm 0.75\text{dB}$
3	Temperature test	$\pm 1^\circ\text{C}$
4	Humidity test	$\pm 3\%$
5	Supply voltages	$\pm 1.5\%$
6	Time	$\pm 3\%$

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router	TP-LINK	TL-R860+	1175379002425
Base station	Baicells	pBS31010 (FCC ID: 2AG32PBS31010)	12020002912122B0001

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#### 4.4 Test Location

All tests were performed at:

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518057.

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

No tests were sub-contracted.

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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	Pro-13API 2019	REF. No.SEA1800	/	/
Spectrum Analyzer	Keysight	N9020A	SEM004-17	2021-05-21	2022-05-20
Shield Room	SAEMC	MSR433	SEM001-11	2021-03-13	2022-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-11	2021-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2020-09-27	2021-09-26

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## **6 Test Method and Environment**

### **6.1 End User Device Conformance and Performance**

Test Requirement: FCC Part 96.47

Test 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**

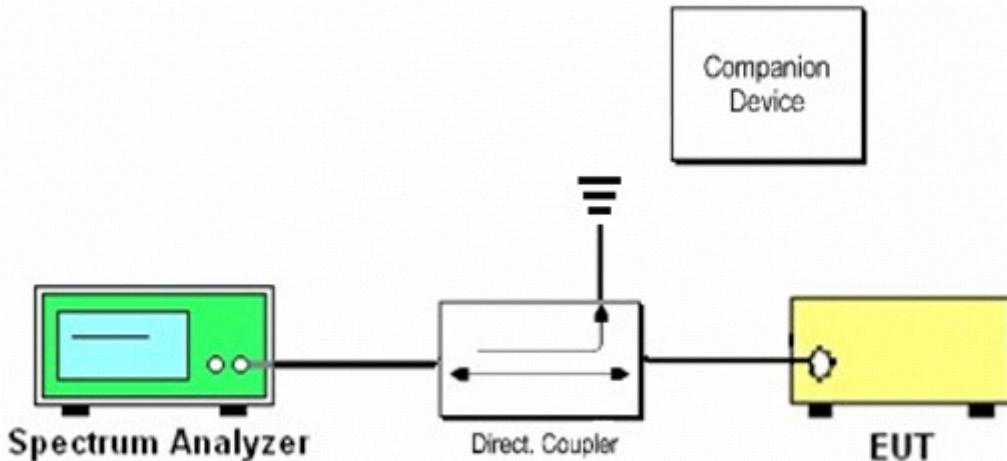
Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: 2AG32PBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

1. Setup with frequency 3590-3610MHz and power level 18dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3610-3630MHz & power level 13dBm/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

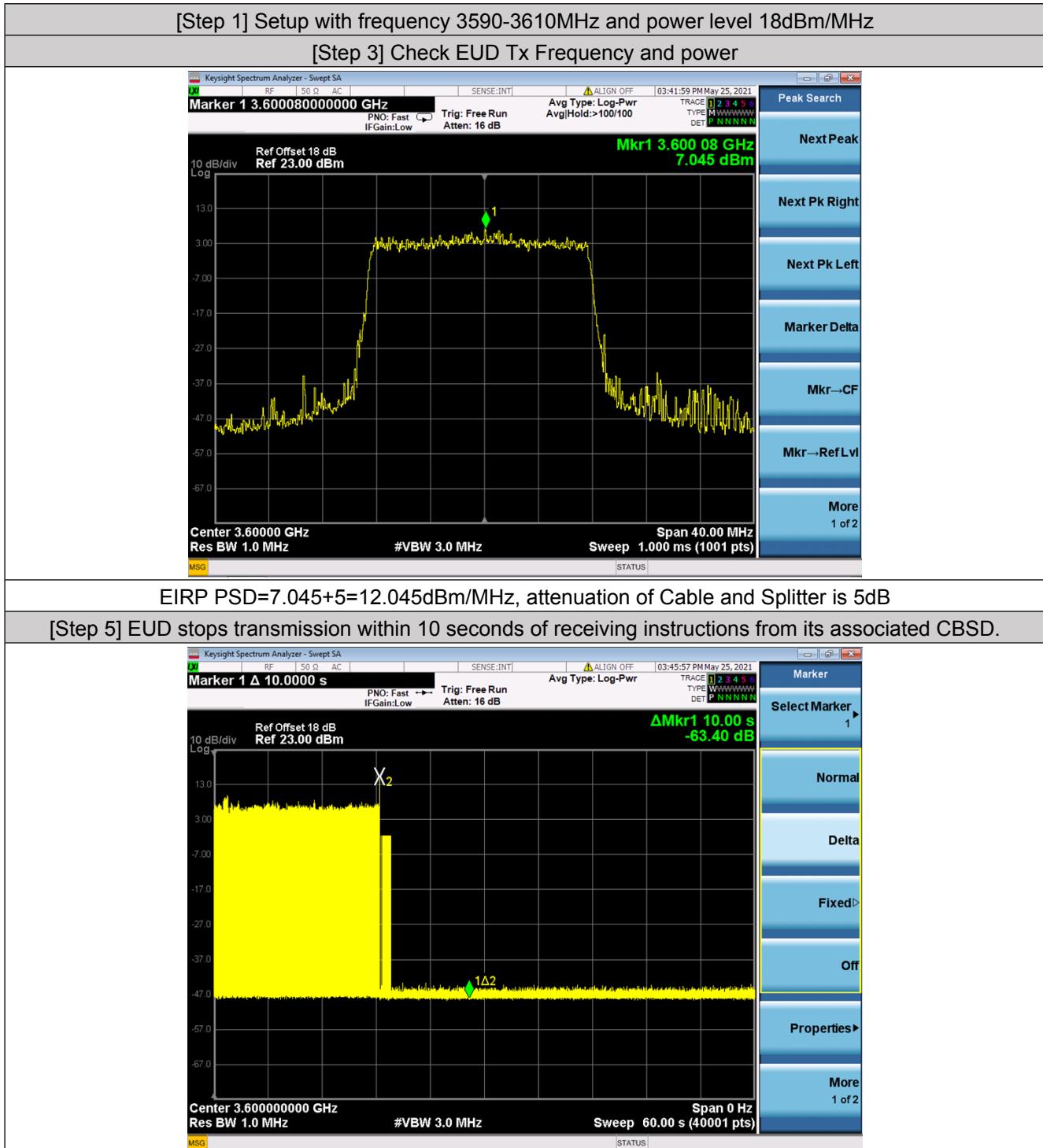


End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)

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## 6.6 Test Result



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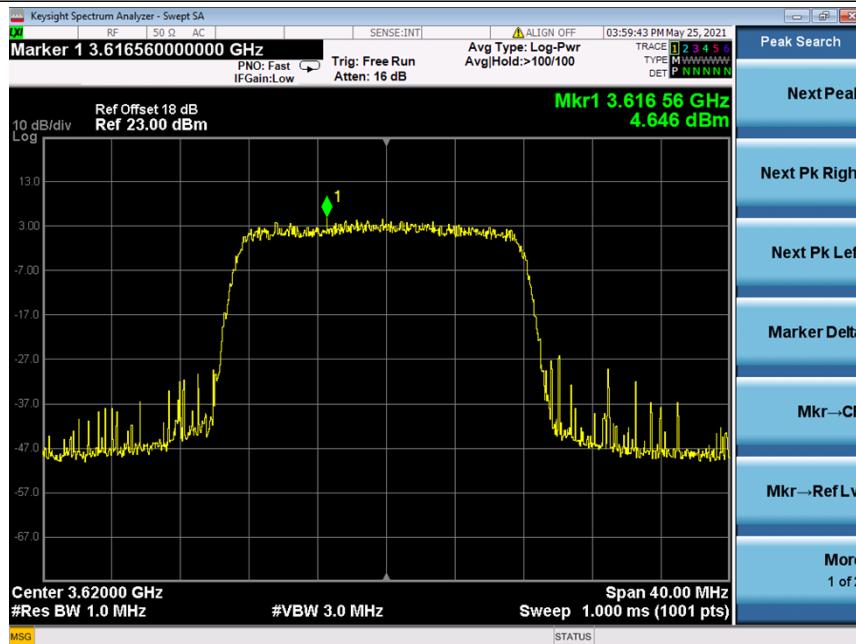


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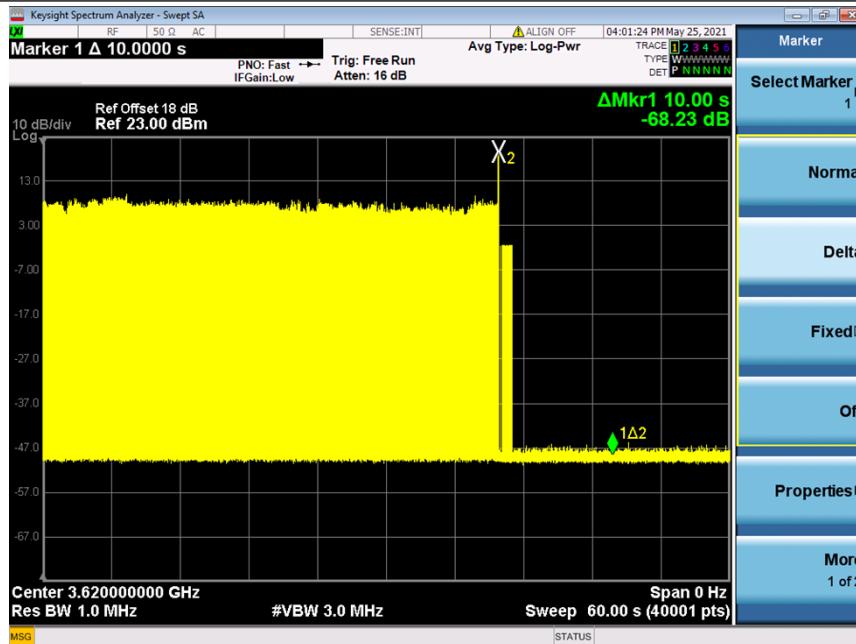
[Step 6] Setup with frequency 3610-3630MHz and power level 13dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=4.646+5=9.646dBm/MHz, attenuation of Cable and Splitter is 5dB

[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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