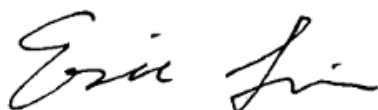


TEST REPORT

Application No.: KSCR22110022010AT(SZCR2211003683AT)
FCC ID: 2AON8RX50
Applicant: Shanghai BroadMobi Communication Technology Co., Ltd.
Address of Applicant: 15F, Building 9, No. 99, Tianzhou Rd., Xuhui District, Shanghai
Manufacturer: Shanghai BroadMobi Communication Technology Co., Ltd.
Address of Manufacturer: 15F, Building 9, No. 99, Tianzhou Rd., Xuhui District, Shanghai
Equipment Under Test (EUT):
EUT Name: RX50
Model No.: RX50
Trademark: BroadMobi
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: 2022-11-02
Date of Test: 2022-11-09 to 2022-11-11
Date of Issue: 2022-11-17

Test Result:	Pass*
---------------------	--------------

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



Eric Lin
Laboratory Manager



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Report No.: KSCR221100220102

Page: 2 of 11

Revision Record			
Version	Description	Date	Remark
00	Original	2022-11-17	/

Authorized for issue by:				
		Damon Zhou		
		Damon Zhou / Project Engineer		
		Eric Lin		
		Eric Lin / 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:	Adapter Model No.: GQ24-120200-AU Input: 100-240V~50/60Hz, 1A Output: 12.0V, 2.0A, 24.0W
Sample Type:	End User Device
Transmitter Frequency Band:	LTE Band 48
Transmitter Frequency Range:	3550~3700MHz
Hardware Version:	RX50A_MB_V4.0
Software Version:	1.01
Antenna Gain:	4.79dBi
Transmitter Type:	1T4R

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
OMC	Lanner Electronics Inc.	LICA-1513A	LR202002004054
Router	TP-LINK	TL-R860+	1175379002425
Base station	Baicells	mBS31001H (FCC ID: 2AG32MBS3100196N)	1202000240194DP0023



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100220102

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.5 Test Facility

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

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M001-2	2022/08/22	2023/08/21
Shield Room	研创	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	14	2022/10/16	2023/10/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Anymetre	TH603	CZ700001(4/7)	2022/10/14	2023/10/13



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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

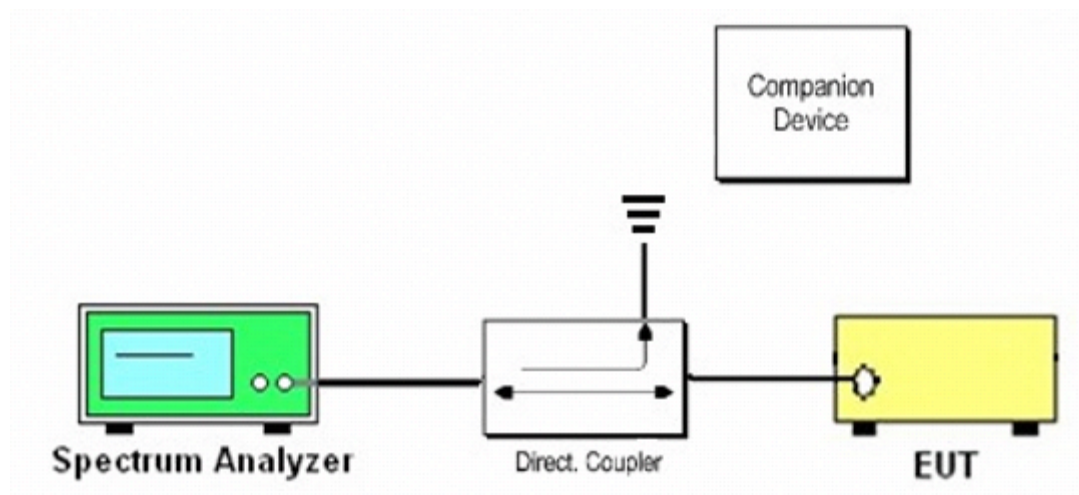
Environmental Conditions: 25deg. C, 65%RH

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 Setup



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



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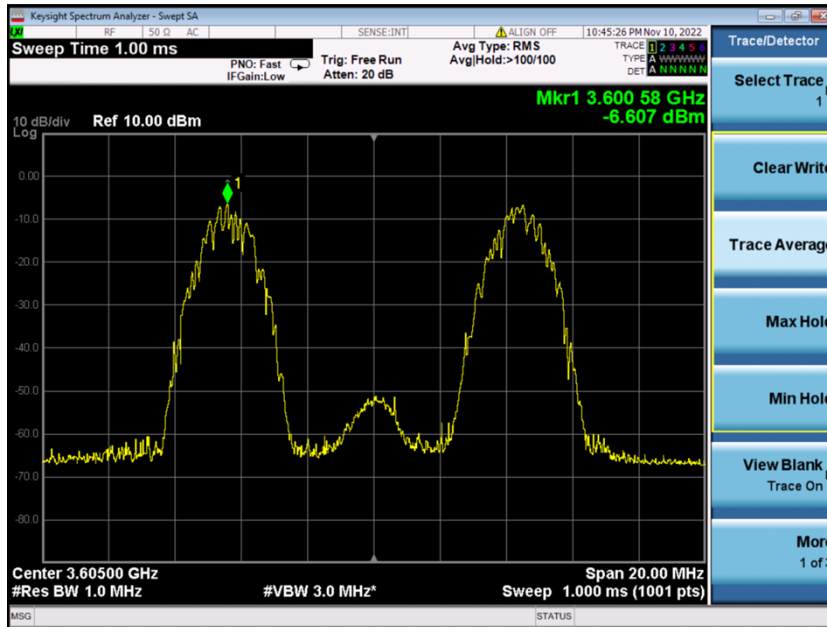
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6.5 Test Result

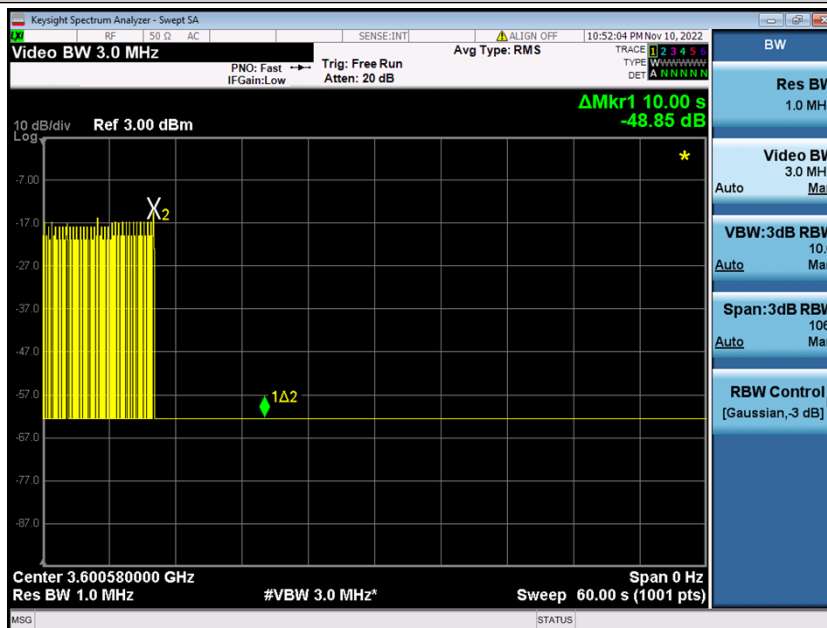
Setup with frequency 3600-3610MHz and power level 23dBm/MHz

Check EUD Tx Frequency and power



EIRP PSD=-6.607+3+4.4=0.793dBm/MHz, loss of Cable and Splitter is 3dB, Antenna gain is 4.4dBi

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



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EMC Laboratory

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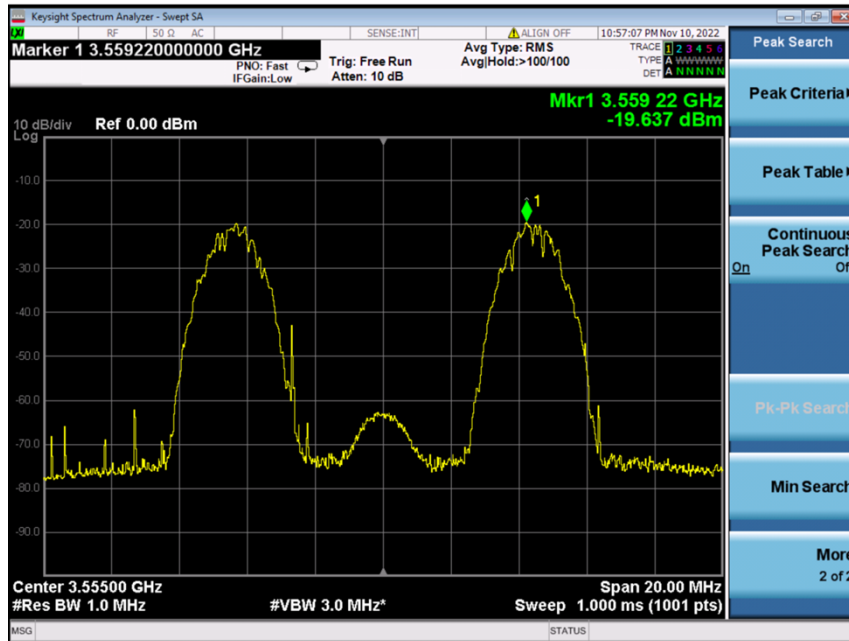
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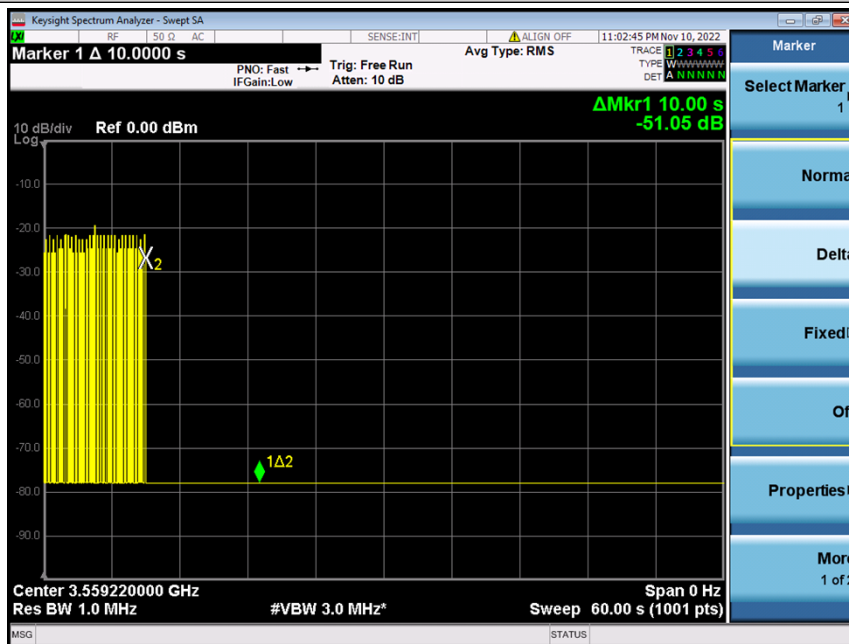
Setup with frequency 359-3610MHz and power level 5dBm/MHz

Check EUD Tx Frequency and power



EIRP PSD=-19.637+3+4.4=-12.237dBm/MHz, loss of Cable and Splitter is 3dB, Antenna gain is 4.4dBi

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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