



Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100232802

Page: 1 of 14

TEST REPORT

Application No.: KSCR2211002328AT
FCC ID: ZMOFG160NA
Applicant: Fibocom Wireless Inc.
Address of Applicant: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer: Fibocom Wireless Inc.
Address of Manufacturer: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: 5G Module
Model No.: FG160-NA
Trade Mark: Fibocom
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: 2022-11-20
Date of Test: 2022-11-21 to 2022-12-08
Date of Issue: 2022-12-22

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
Laboratory Manager



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Report No.: KSCR221100232802

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Revision Record			
Version	Description	Date	Remark
00	Original	2022-12-22	/

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:	DC3.8V
Sample Type:	End User device
Transmitter Frequency Band:	LTE: Band 48 5GNR: n48
Transmitter Frequency Range:	3550~3700MHz
Antenna Type:	External Antenna
Hardware Version:	V1.1
Software Version:	89113.1000.00.02.04.07
Antenna Gain:	-0.58dBi(Provide by Manufacturer)

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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Report No.: KSCR221100232802

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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.

5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M00 1-2	2022/8/22	2023/8/21
Shield Room	研创	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	13	2022/9/16	2023/9/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Renke	RS-WS-N01- 6J	1032844	2022/4/1	2023/3/31



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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.



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6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) and 5GNR Base station CBSD (FCC ID: WBKRU4370) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For LTE:

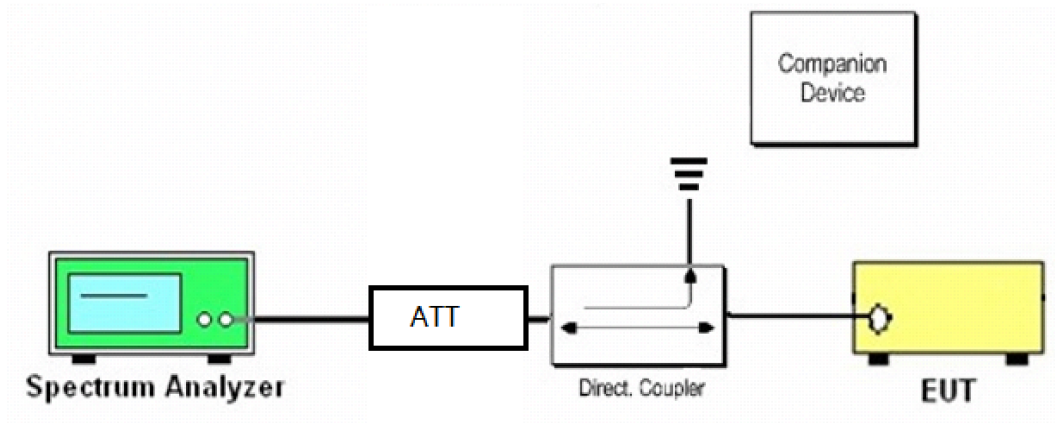
1. Setup with frequency 3550-3570MHz and power level 14dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3570-3590MHz & power level 8dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;
9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.

For 5G NR:

1. Setup with frequency 3550-3650MHz and power level 14dBm/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 3600-3700MHz & 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.



6.5 Test Setup



For LTE:

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

For 5G NR:

End User Device as UUT, the companion device is certified CBRS (FCC ID: WBKRU4370)



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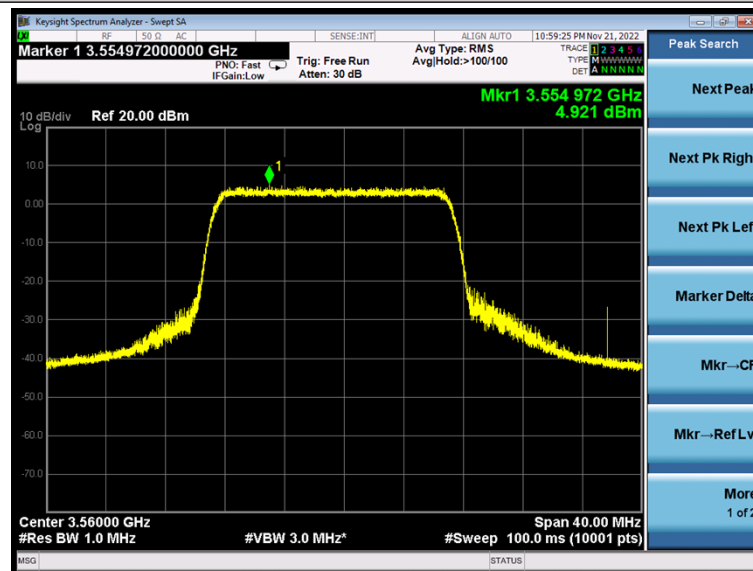
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6.6 Test Result

For LTE

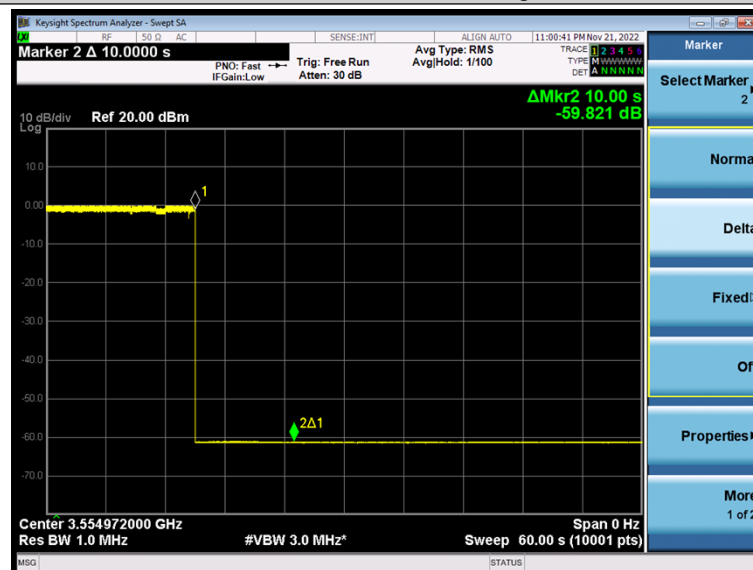
[Step 1] Setup with frequency 3550-3570MHz and power level 14dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=4.921-0.58+6=-10.341dBm/MHz, Antenna gain is -0.58dBi,the path loss is 6dB

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



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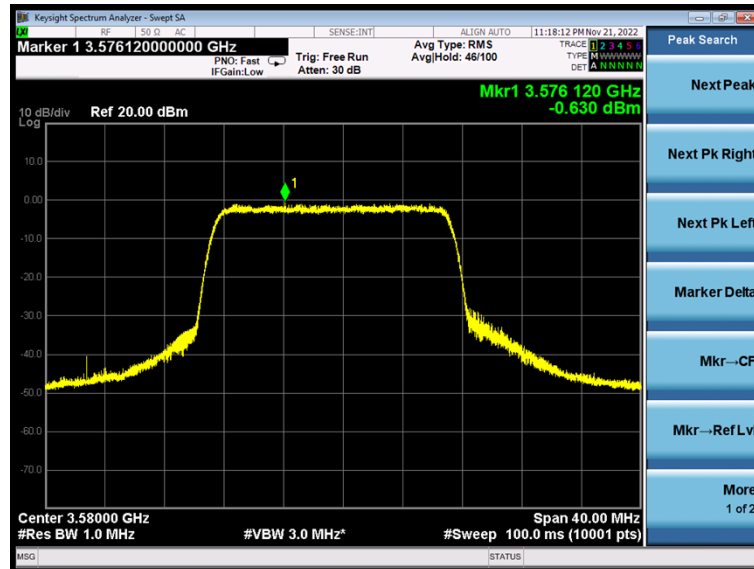
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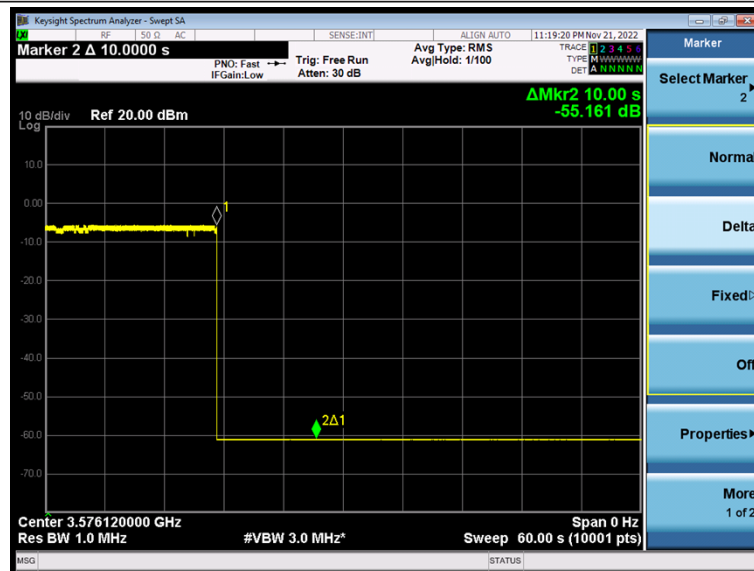
[Step 6] Setup with frequency 3570-3590MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-0.63-0.58+6=4.79dBm/MHz, Antenna gain is -0.58dBi, the path loss is 6dB

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



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EMC Laboratory

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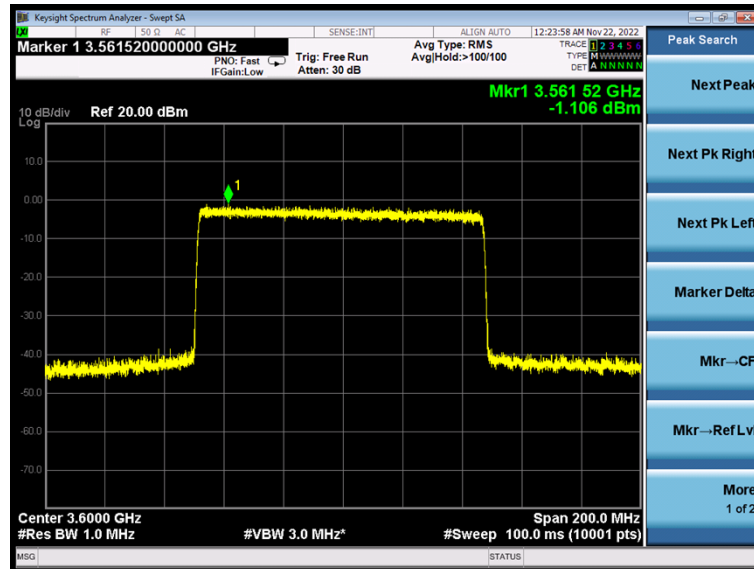
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For 5GNR

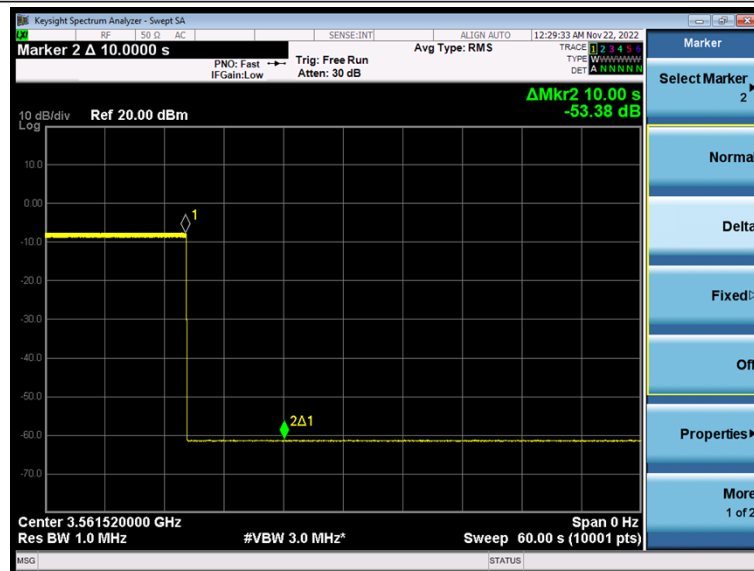
[Step 1] Setup with frequency 3550-3650MHz and power level 14dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-1.106-0.58+6=4.314dBm/MHz, Antenna gain is -0.58dBi,the path loss is 6dB

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



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EMC Laboratory

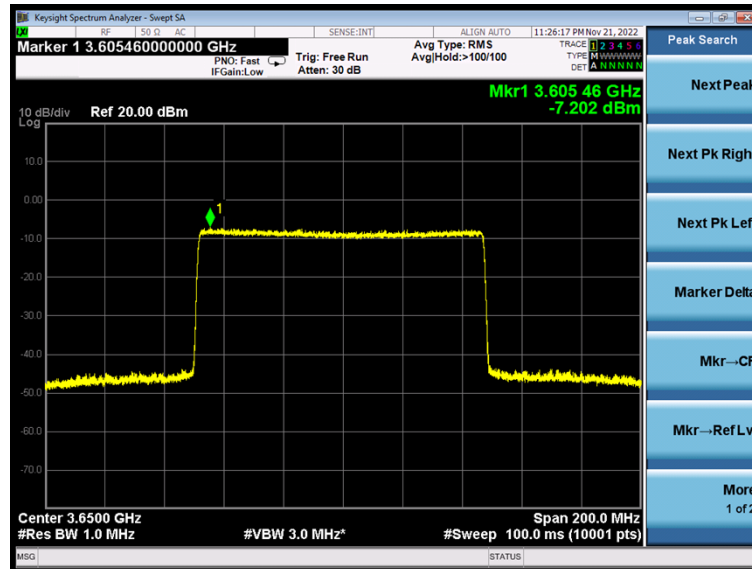
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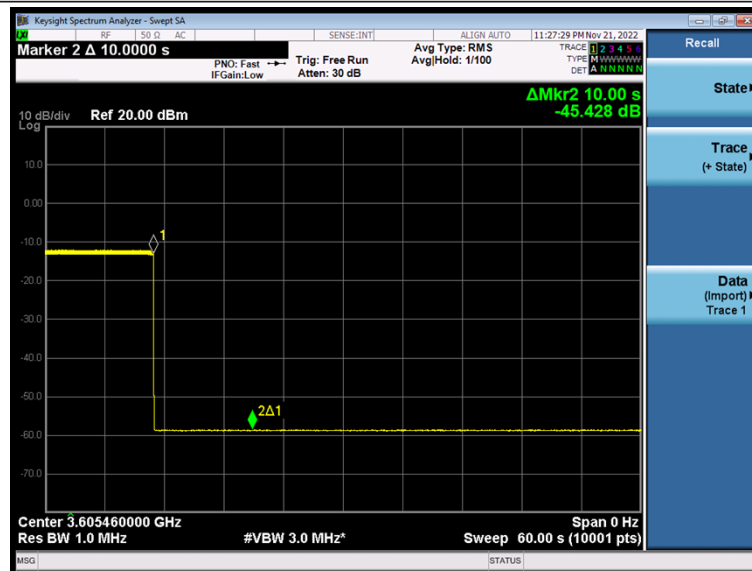
[Step 6] Setup with frequency 3600-3700MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-7.202-0.58+6=-1.782dBm/MHz, Antenna gain is -0.58dBi, the path loss is 6dB

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



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7 Photographs

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2211002328AT

- End of the Report -



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