

Report No.: KSCR220500074001

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TEST REPORT

Application No.: KSCR2205000740AT (FYCR2204000100AT)

FCC ID: ZMOFM160NA

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.: FM160-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: 2022-03-15

Date of Test: 2022-05-12 to 2022-05-13

Date of Issue: 2022-05-13

Test Result: Pass*

Eric Lin 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 Description Date R					
00	Original	2022-05-13	1		

Authorized for issue by:			
	Damon zhou		
	Damon Zhou / Project Engineer		
	Esia Li		
	Eric Lin / Reviewer	_	



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2 Test Summary

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	1	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 3.8V
Sample Type:	End User device
Transmitter Frequency Band:	LTE Band 48
Transmitter Frequency Range:	3550~3700MHz
Antenna Type:	Monopole
Hardware Version:	V1.1
Software Version:	89610.1000.00.02.01.01
Antenna Gain:	-0.13dBi

4.2 Measurement Uncertainty

No.	ltem	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%

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	
Dogo station	Doiselle	pBS31010	1202000201212200001	
Base station	Baicells	(FCC ID: 2AG32PBS31010)	12020002912122B0001	

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.



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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	N9030B	KSEM021-1	2022/01/22	2023/01/22
Shield Room	研创	N/A	KS301115-2	N/A	N/A
Coaxial Cab `le	Thermax	N/A	14	2021/10/16	2022/10/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Anymetre	TH603	CZ700001(4/7	2021/10/14	2022/10/13



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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 Procedure

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: 2AG32PBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3550-3570MHz and power level 17dBm/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 3590-3610MHz & power level 7dBm/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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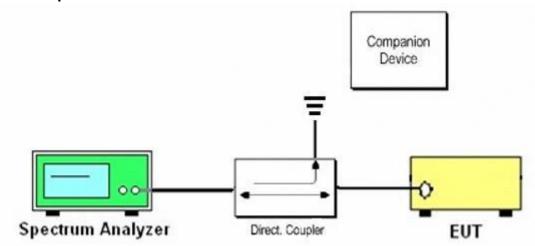
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6.5 Test Setup



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



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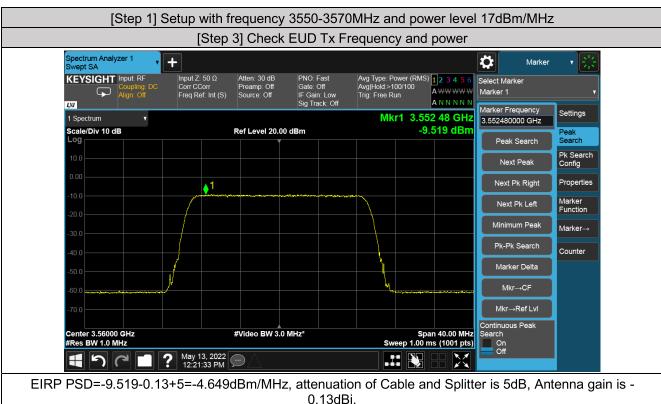
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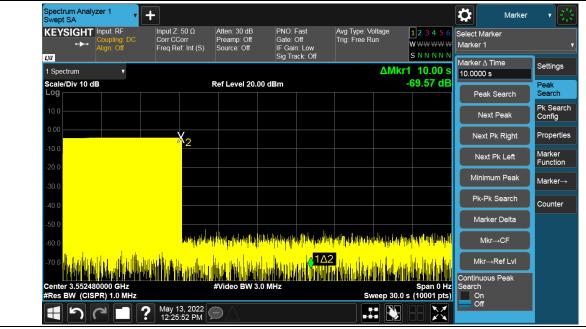
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6.6 Test Result



0.13dBi.

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





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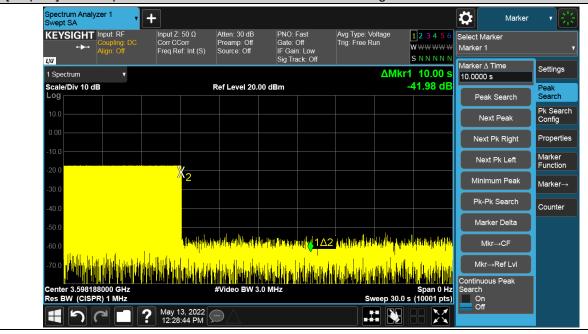
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EIRP PSD=-19.580-0.13+5=-14.71dBm/MHz, attenuation of Cable and Splitter is 5dB, Antenna gain is - 0.13dBi.

[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 Integral and internal photos for details.

- End of the Report -



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