

TEST REPORT

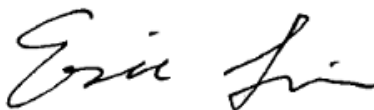
Application No.: KSCR2210001872AT
FCC ID: ZMOFG360NA08
Applicant: Fibocom Wireless Inc.
Address of Applicant: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer: Fibocom Wireless Inc.
Address of Manufacturer: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: 5G Module
Model No.: FG360-NA
Trade Mark: Fibocom
Standard(s): FCC Part 96.47
FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
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: 2022-10-09
Date of Test: 2022-10-24 to 2022-10-31
Date of Issue: 2022-11-03

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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Revision Record			
Version	Description	Date	Remark
00	Original	2022-11-03	/

Authorized for issue by:		<i>Damon Zhou</i>		
		Damon Zhou / Project Engineer		
		<i>Eric Lin</i>		
		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-V1.0.1 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:	DC4.3V
Sample Type:	End User device
Hardware Version:	V1.0
Software Version:	81112.7000.30.01.01.07
Operation Frequency Band:	LTE: Band 48
	NR: n48
CA Under Test	EN-DC: DC_2A_n48A,DC_66A_n48A,DC_48A_n66A,DC_48A_n25A
	LTE:48C
MIMO function	NR: CA_n48A-n66A,CA_n25A-n48A,CA_n41A-n48A
	n48 support 2*2 MIMO
Modulation Type:	LTE: QPSK, 16QAM, 64QAM
	NR: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256 QAM
LTE Power Class:	Level 3
SCS Information:	30KHz
Antenna Type:	External Antenna
	LTE B48:-0.13dBi(Provide by Manufacturer)
Antenna Gain:	NR n48: Antenna 1 -0.13 dBi(Provide by Manufacturer);
	Antenna 2 -0.13 dBi(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	$\pm 3\%$



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4.3 Description of Support Units

For LTE test:

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

For 5G NR Test:

Description	Manufacturer	Model No.	Serial No.
5GC	astir	astir_5GC	A372768X0507398
Router	TP-LINK	TL-R860+	1175379002425
Base Band Unit	BTI	sCELL- G52091NAX	L603JESE1I
Remote Radio Unit	BTI	RU4370 (FCC ID: WBKRU4370)	C0214921000004S



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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.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

• A2LA

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

• FCC

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

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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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	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	14	2021/11/14	2022/11/13
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.

6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) and 5G NR 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 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 3640-3660MHz & power level 8dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;



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9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.



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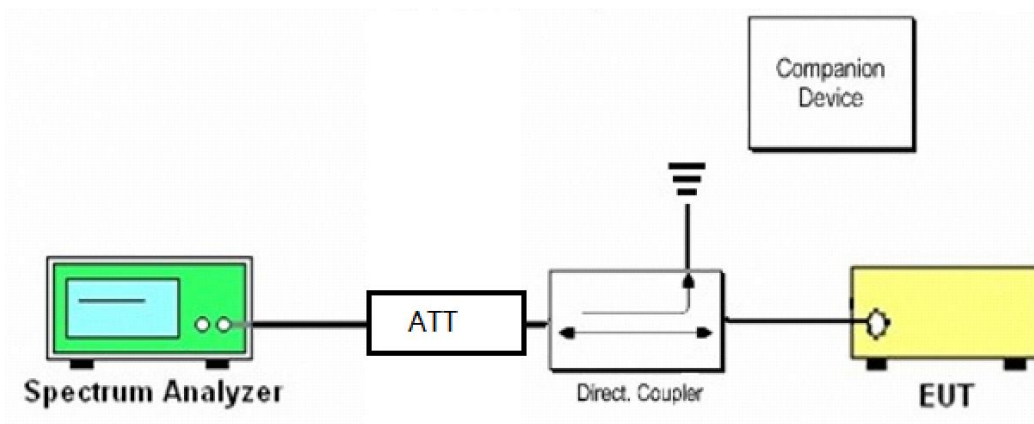
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For 5G NR:

1. Setup with frequency 3600-3700MHz and power level 15dBm/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 3550-3650MHz & power level 5dBm/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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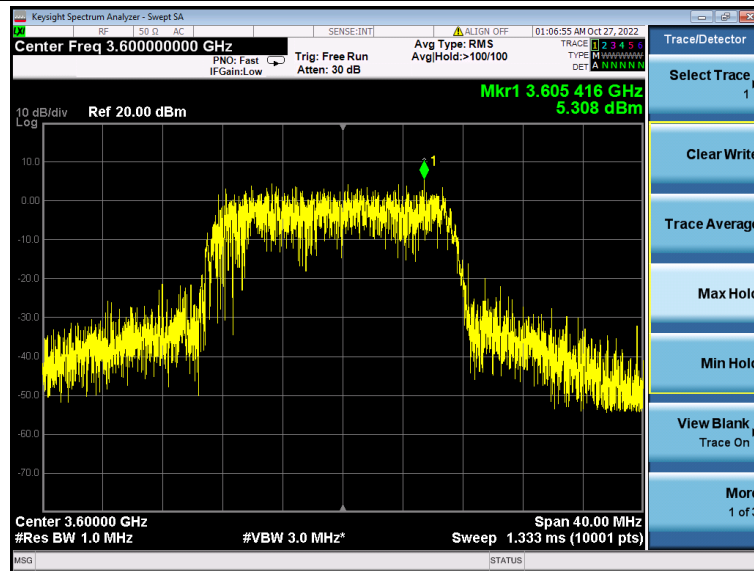
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6.6 Test Result

For LTE

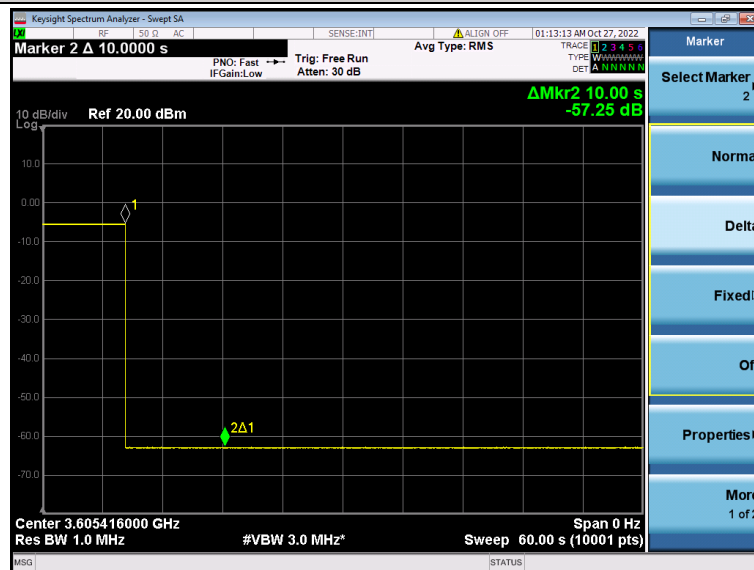
[Step 1] Setup with frequency 3590-3610MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=5.308-0.13=5.178dBm/MHz, Antenna gain is -0.13dBi

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



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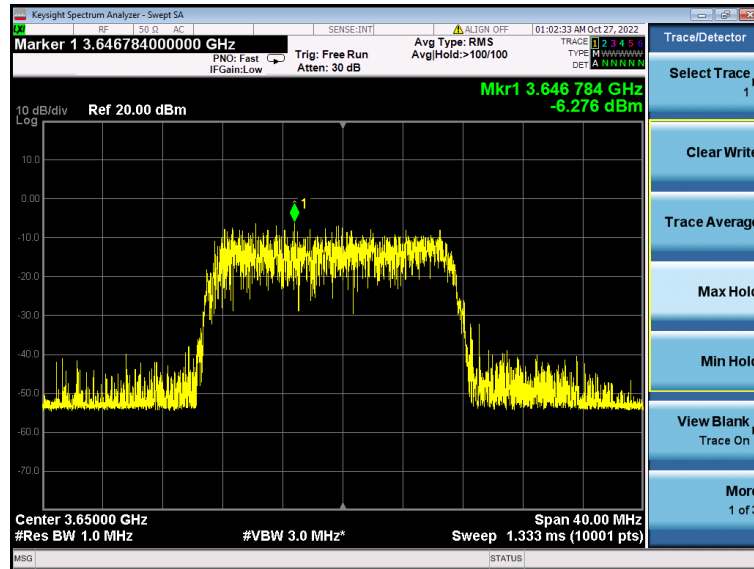
Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
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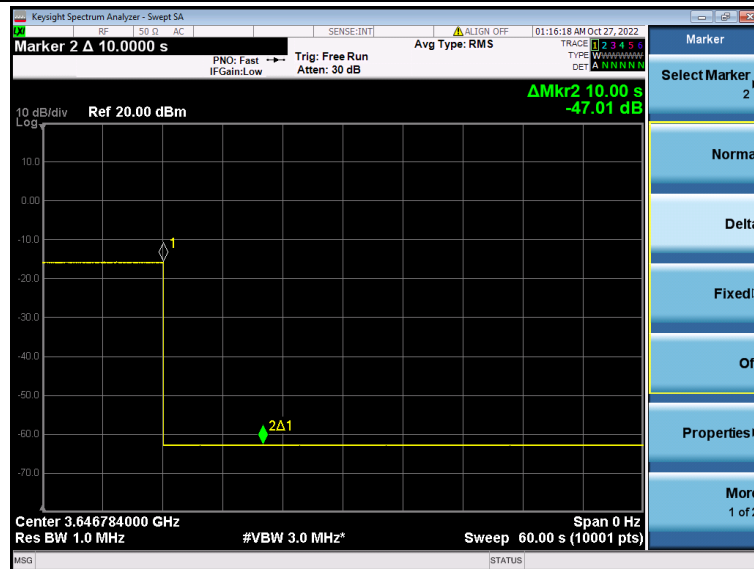
[Step 6] Setup with frequency 3640-3660MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-6.276-0.13=-6.406dBm/MHz, Antenna gain is -0.13dBi

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



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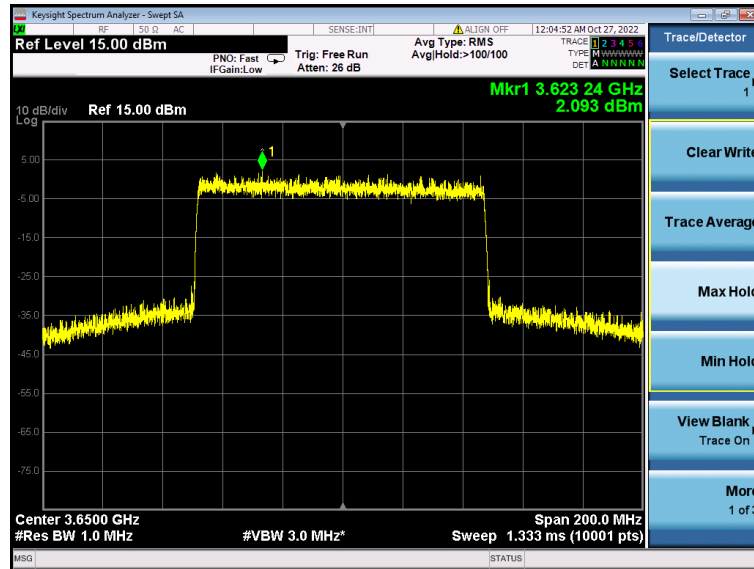
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For 5GNR

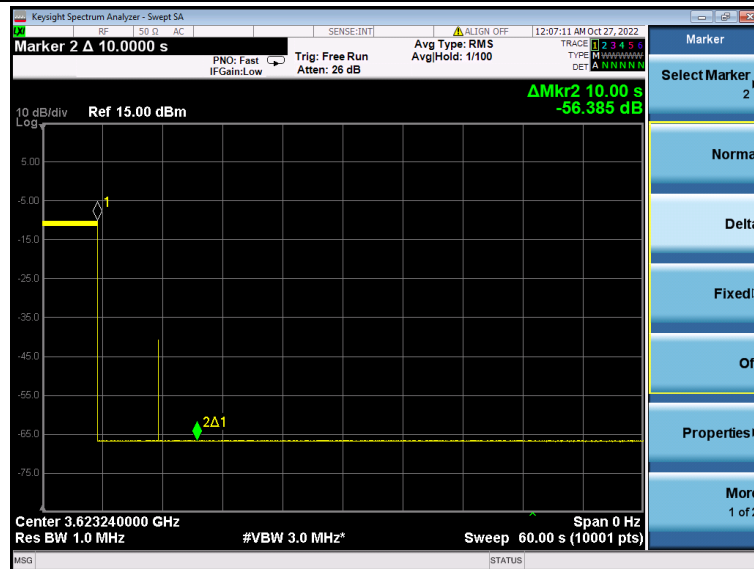
[Step 1] Setup with frequency 3600-3700MHz and power level 15dBm/MHz

[Step 3] Check EUD Tx Frequency and power



$EIRP PSD = 2.093 - 0.13 + 3.01 = 4.973 \text{ dBm/MHz}$, Antenna gain is -0.13 dBi , Directional Gain is 3.01 dB

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



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7 Test Setup Photographs

Refer to Appendix - Test Setup Photo for KSCR2210001872AT

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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