

Report No.: SEWM2309000364RG03

Rev.: 01

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TEST REPORT

Application No.: SEWM2309000364RG
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
EUT Description: 5G Module
Model No.: FM160-NA
Trade Mark: Fibocom
FCC ID: ZMOFM160NA
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: 2023/09/12
Date of Issue: 2023/10/08

Test Result:**PASS***

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

Authorized Signature:

Well Wei

Well Wei
Wireless Laboratory Manager

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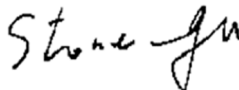
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/08		Original

Prepared By		 (Nick Hu) / Test Engineer
Checked By		 (Stone Gu) / Reviewer



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2 General Information

2.1 Client Information

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

2.2 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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2.3 General Description of EUT

EUT Description:	5G Module			
Model No.:	FM160-NA			
Trade Mark:	Fibocom			
Hardware Version:	V1.1			
Software Version:	89610.1000.00.02.02.12			
Power Supply:	DC 3.8V			
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated			
Antenna Gain:	LTE Band 2:	2.63dBi(Ant0)	LTE Band 4:	2.86dBi(Ant0)
	LTE Band 5:	1.32dBi(Ant3)	LTE Band 12:	1.61dBi(Ant3)
	LTE Band 13:	1.94dBi(Ant3)	LTE Band 14:	2.19dBi(Ant3)
	LTE Band 30:	0.22dBi(Ant0)	LTE Band 41:	1.52dBi(Ant0)
	LTE Band 48:	-0.13dBi(Ant0)	LTE Band 66:	3.76dBi(Ant0)
	LTE Band 71:	1.39dBi(Ant3)	LTE CA_41C:	1.52dBi(Ant0)
	NR Band n2:	2.63dBi(Ant0)	NR Band n5:	1.32dBi(Ant0)
		2.63dBi(Ant3)		1.32dBi(Ant3)
	NR Band n12:	1.61dBi(Ant3)	NR Band n14:	2.19dBi(Ant3)
	NR Band n25:	1.93dBi(Ant0)	NR Band n30:	0.22dBi(Ant0)
		1.93dBi(Ant3)		
	NR Band n41:	1.52dBi(Ant0)	NR Band n48:	-0.13dBi(Ant0)
		1.52dBi(Ant3)		-0.13dBi(Ant3)
	NR Band n66:	3.76dBi(Ant0)	NR Band n70:	3.76dBi(Ant0)
		3.76dBi(Ant3)		
	NR Band n71:	1.39dBi(Ant3)	NR Band n77:	-0.13dBi(Ant0)
				-0.13dBi(Ant3)
LTE UL CA: LTE CA_41C; LTE CA_12A-66A; LTE CA_13A-66A; LTE CA_2A-12A; LTE CA_2A-13A; LTE CA_4A-13A; LTE CA_14A-30A ENDC: DC_5A_n2A, DC_12A_n2A, DC_13A_n2A, DC_30A_n2A, DC_66A_n2A, DC_2A_n5A, DC_12A_n5A, DC_13A_n5A, DC_30A_n5A, DC_48A_n5A, DC_66A_n5A DC_12A_n25A, DC_48A_n25A, DC_66A_n25A DC_2A_n30A, DC_5A_n30A, DC_12A_n30A, DC_66A_n30A DC_2A_n41A, DC_66A_n41A DC 2A_n66A, DC 5A_n66A, DC 12A_n66A, DC 13A_n66A, DC 30A_n66A,				

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	DC_48A_n66A DC_2A_n71A, DC_66A_n71A DC_2A_n77A, DC_5A_n77A, DC_12A_n77A, DC_13A_n77A, DC_66A_n77A DC_14A_n2A, DC_14A_n66A, DC_14A_n77A
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
Feature:	UL 2*2 MIMO: NR Band n41; NR Band n77
Power Class:	Class 1.5: UL MIMO NR Band n41; UL MIMO NR Band n77
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
LTE Band 2	1850.7	2.63	25.00	27.63	33.00	0.1153	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	2.86	25.00	27.86	30.00	0.1215	1.0000	5.00	12.01	5.00	Pass
LTE Band 5	824.7	1.32	25.00	24.17	38.45	0.0853	0.5498	15.60	9.41	9.41	Pass
LTE Band 12	699.7	1.61	25.00	24.46	34.77	0.0911	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	1.94	25.00	24.79	34.77	0.0983	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	2.19	25.00	25.04	34.77	0.1042	0.5270	11.92	9.23	9.23	Pass
LTE Band 30	2307.5	0.22	23.00	23.22	23.98	0.0418	1.0000	0.98	14.01	0.98	Pass
LTE/CA Band 41	2498.5	1.52	25.00	26.52	33.00	0.0893	1.0000	8.00	12.01	8.00	Pass
LTE/CA Band 41 (HPUE)	2498.5	1.52	28.00	29.52	33.00	0.1781	1.0000	5.00	9.01	5.00	Pass
LTE Band 48	3552.5	-0.13	22.00	21.87	23.00	0.0306	1.0000	1.00	15.01	1.00	Pass
LTE Band 66	1710.7	3.76	25.00	28.76	30.00	0.1495	1.0000	5.00	12.01	5.00	Pass
LTE Band 71	665.5	1.39	25.00	24.24	34.77	0.0866	0.4437	11.92	8.48	8.48	Pass



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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
NR Band n2	1852.5	2.63	N/A	25.00	27.63	33.00	0.1153	1.0000	8.00	12.01	8.00	Pass
NR Band n5	826.5	1.32	N/A	25.00	24.17	38.45	0.0853	0.5510	15.60	9.42	9.42	Pass
NR Band n12	701.5	1.61	N/A	25.00	24.46	34.77	0.0911	0.4677	11.92	8.71	8.71	Pass
NR Band n14	790.5	2.19	N/A	25.00	25.04	34.77	0.1042	0.5270	11.92	9.23	9.23	Pass
NR Band n25	1852.5	1.93	N/A	25.00	26.93	33.00	0.0981	1.0000	8.00	12.01	8.00	Pass
NR Band n30	2307.5	0.22	N/A	23.00	23.22	23.98	0.0418	1.0000	0.98	14.01	0.98	Pass
NR Band n41	2506.02	1.52	N/A	25.00	26.52	33.00	0.0893	1.0000	8.00	12.01	8.00	Pass
NR Band n41 (HPUE)	2506.02	1.52	N/A	28.00	29.52	33.00	0.1781	1.0000	5.00	9.01	5.00	Pass
NR Band n41 (MIMO)	2506.02	1.52	1.52	29.00	30.52	33.00	0.2242	1.0000	4.00	8.01	4.00	Pass
NR Band n48	3555.0	-0.13	N/A	22.00	21.87	23.00	0.0306	1.0000	1.00	15.01	1.00	Pass
NR Band n66	1712.5	3.76	N/A	25.00	28.76	30.00	0.1495	1.0000	5.00	12.01	5.00	Pass
NR Band n70	1697.5	3.76	N/A	25.00	28.76	30.00	0.1495	1.0000	5.00	12.01	5.00	Pass
NR Band n71	665.5	1.39	N/A	25.00	24.24	34.77	0.0866	0.4437	11.92	8.48	8.48	Pass
NR Band n77 (3450-3550)	3705.0	-0.13	N/A	25.00	24.87	30.00	0.0611	1.0000	5.00	12.01	5.00	Pass
NR Band n77 (3450-3550) (HPUE)	3705.0	-0.13	N/A	28.00	27.87	30.00	0.1218	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3450-3550) (MIMO)	3705.0	-0.13	-0.13	29.00	28.87	30.00	0.1534	1.0000	1.00	8.01	1.00	Pass
NR Band n77 (3700-3980)	3705.0	-0.13	N/A	25.00	24.87	30.00	0.0611	1.0000	5.00	12.01	5.00	Pass
NR Band n77 (3700-3980) (HPUE)	3707.5	-0.13	N/A	28.00	27.87	30.00	0.1218	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3700-3980) (MIMO)	3707.5	-0.13	-0.13	29.00	28.87	30.00	0.1534	1.0000	1.00	8.01	1.00	Pass



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Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^n \frac{S_{E_i}(\text{duty factor})}{MPE_{E_i}} < 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation
Therefore, the worst-case(LTE CA_41C) situation is 0.1781+0.1781=0.3562,which is less than “1”,
this confirmed that the device comply with MPE limit.

---End of Report---



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