



Report No.: SEWM2210000205RG03

Rev.: 01

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## TEST REPORT

**Application No.:** SEWM2210000205RG  
**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.:** FG360-NA  
**Trade Mark:** Fibocom  
**FCC ID:** ZMOFG360NA08  
**Standards:** 47 CFR Part 2.1091  
FCC KDB 447498 D01 v06  
**Date of Receipt:** 2022/09/25  
**Date of Issue:** 2022/12/05

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>PASS*</b> |
|---------------------|--------------|

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

Authorized Signature:

Panta Sun

Panta Sun  
Wireless Laboratory Manager



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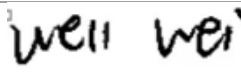
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## 1 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2022/12/05 |          | Original |

|             |                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|
| Prepared By | <br>_____<br>(Weller Liu) / Test Engineer |
| Checked By  | <br>_____<br>(Well Wei) / 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.:        | FG360-NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |              |                                    |
| Trade Mark:       | Fibocom                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |              |                                    |
| Hardware Version: | V1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |              |                                    |
| Software Version: | 81112.7000.30.01.01.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |              |                                    |
| Antenna Type:     | <input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |              |                                    |
| Antenna Gain:     | LTE Band 2:                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.63dBi (Ant3)                     | LTE Band 4:  | 2.86dBi (Ant3)                     |
|                   | LTE Band 5:                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.61dBi (Ant8)                     | LTE Band 12: | 1.61dBi (Ant8)                     |
|                   | LTE Band 25:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.63dBi (Ant3)                     | LTE Band 48: | -0.13dBi (Ant3)                    |
|                   | LTE Band 66:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.86dBi (Ant3)                     | LTE Band 71: | 1.39dBi (Ant8)                     |
|                   | LTE CA_2C:                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.63dBi (Ant3)                     | LTE CA_48C:  | -0.13dBi (Ant3)                    |
|                   | NR Band n25:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.63dBi (Ant3)                     | NR Band n41: | 1.52dBi (Ant3)<br>1.52dBi (Ant8)   |
|                   | NR Band n48:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.13dBi (Ant3)<br>-0.13dBi (Ant8) | NR Band n66: | 2.86dBi (Ant3)                     |
|                   | NR Band n71:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.39dBi (Ant8)                     | NR Band n77: | -1.13dBi (Ant3)<br>-1.13dBi (Ant8) |
|                   | NR CA_n41C:                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.52dBi (Ant3)                     |              |                                    |
|                   | LTE CA:<br>LTE UL CA_2C; LTE UL CA_48C; LTE UL CA_2A-4A; LTE UL CA_2A-66A;<br>LTE UL CA_2A-12A; LTE UL CA_12A-66A;<br>ENDC:<br>DC_12A_n25A; DC_48A_n25A; DC_66A_n25A; DC_2A_n41A; DC_66A_n41A;<br>DC_2A_n48A; DC_66A_n48A; DC_2A_n66A; DC_12A_n66A; DC_48A_n66A;<br>DC_2A_n71A; DC_66A_n71A;<br>NR UL CA:<br>NR CA_n41C; n25A-n41A; n25A-n48A; n41A-n48A; n25A-n66A; n48A-n66A;<br>n41A-n66A; n25A-n71A; n41A-n71A; n66A-n71A; n25A-n77A; n41A-n77A; n66A-n77A; n71A-n77A; n48A-n71A; |                                    |              |                                    |
|                   | Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer.                                                                                                                                                                                                                                                                                                                                                                                  |                                    |              |                                    |

|                                                                                                                                                                   |
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| Remark:                                                                                                                                                           |
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### 3 RF Exposure Evaluation

#### 3.1 RF Exposure Compliance Requirement

##### 3.1.1 Limits

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

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

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

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. 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

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

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 Average Output Power (dBm) | Output Power to Antenna (dBm) | EIRP(ERP) Limit (dBm) | Output Power to Antenna (mw) | Power Density at R = 20 cm (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Gain according to EIRP (dBi) | Gain according to Pd (dBi) | Max Gain Allowed (dBi) | conclusion |
|----------------------------------|-----------------|--------------------|------------------------------------------|-------------------------------|-----------------------|------------------------------|--------------------------------------------------|-----------------------------|------------------------------|----------------------------|------------------------|------------|
| LTE B2/CA_2C                     | 1850.7          | 2.63               | 25.00                                    | 27.63                         | 33.00                 | 316.2278                     | 0.1153                                           | 1.0000                      | 8.00                         | 12.01                      | 8.00                   | Pass       |
| LTE B4                           | 1710.7          | 2.86               | 25.00                                    | 27.86                         | 30.00                 | 316.2278                     | 0.1215                                           | 1.0000                      | 5.00                         | 12.01                      | 5.00                   | Pass       |
| LTE B5                           | 824.7           | 1.61               | 25.00                                    | 26.61                         | 38.45                 | 316.2278                     | 0.0911                                           | 0.5498                      | 13.45                        | 9.41                       | 9.41                   | Pass       |
| LTE B12                          | 699.7           | 1.61               | 25.00                                    | 26.61                         | 34.77                 | 316.2278                     | 0.0911                                           | 0.4665                      | 9.77                         | 8.70                       | 8.70                   | Pass       |
| LTE B25                          | 1850.7          | 2.63               | 25.00                                    | 27.63                         | 33.00                 | 316.2278                     | 0.1153                                           | 1.0000                      | 8.00                         | 12.01                      | 8.00                   | Pass       |
| LTE B48/CA_48C                   | 3552.5          | -0.13              | 22.00                                    | 21.87                         | 23.00                 | 158.4893                     | 0.0306                                           | 1.0000                      | 1.00                         | 15.01                      | 1.00                   | Pass       |
| LTE B66                          | 1710.7          | 2.86               | 25.00                                    | 27.86                         | 30.00                 | 316.2278                     | 0.1215                                           | 1.0000                      | 5.00                         | 12.01                      | 5.00                   | Pass       |
| LTE B71                          | 665.5           | 1.39               | 25.00                                    | 26.39                         | 34.77                 | 316.2278                     | 0.0866                                           | 0.4437                      | 9.77                         | 8.48                       | 8.48                   | Pass       |
| NR Band n25                      | 1852.5          | 2.63               | 25.00                                    | 27.63                         | 33.00                 | 316.2278                     | 0.1153                                           | 1.0000                      | 8.00                         | 12.01                      | 8.00                   | Pass       |
| NR Band n41/CA_n41C              | 2501.01         | 1.52               | 24.50                                    | 26.02                         | 33.00                 | 281.8383                     | 0.0796                                           | 1.0000                      | 8.50                         | 12.51                      | 8.50                   | Pass       |
| NR Band n41(PC2)                 | 2501.01         | 1.52               | 27.00                                    | 28.52                         | 33.00                 | 501.1872                     | 0.1415                                           | 1.0000                      | 6.00                         | 10.01                      | 6.00                   | Pass       |
| NR Band n41(PC2 MIMO)            | 2501.01         | 1.52               | 30.00                                    | 31.52                         | 33.00                 | 1000.0000                    | 0.2823                                           | 1.0000                      | 3.00                         | 7.01                       | 3.00                   | Pass       |
| NR Band n48                      | 3555.0          | -0.13              | 22.00                                    | 21.87                         | 23.00                 | 158.4893                     | 0.0306                                           | 1.0000                      | 1.00                         | 15.01                      | 1.00                   | Pass       |
| NR Band n48(MIMO)                | 3555.0          | -0.13              | 22.00                                    | 21.87                         | 23.00                 | 158.4893                     | 0.0306                                           | 1.0000                      | 1.00                         | 15.01                      | 1.00                   | Pass       |
| NR Band n66                      | 1712.5          | 2.86               | 25.00                                    | 27.86                         | 30.00                 | 316.2278                     | 0.1215                                           | 1.0000                      | 5.00                         | 12.01                      | 5.00                   | Pass       |
| NR Band n71                      | 665.5           | 1.39               | 25.00                                    | 26.39                         | 34.77                 | 316.2278                     | 0.0866                                           | 0.4437                      | 9.77                         | 8.48                       | 8.48                   | Pass       |
| NR Band n77 (3450-3550)          | 3455.01         | -1.13              | 24.50                                    | 23.37                         | 30.00                 | 281.8383                     | 0.0432                                           | 1.0000                      | 5.50                         | 12.51                      | 5.50                   | Pass       |
| NR Band n77 (3450-3550 PC2)      | 3455.01         | -1.13              | 27.00                                    | 25.87                         | 30.00                 | 501.1872                     | 0.0769                                           | 1.0000                      | 3.00                         | 10.01                      | 3.00                   | Pass       |
| NR Band n77 (3450-3550 PC2 MIMO) | 3455.01         | -1.13              | 30.00                                    | 28.87                         | 30.00                 | 1000.0000                    | 0.1534                                           | 1.0000                      | 0.00                         | 7.01                       | 0.00                   | Pass       |
| NR Band n77 (3700-3980)          | 3705.0          | -1.13              | 24.50                                    | 23.37                         | 30.00                 | 281.8383                     | 0.0432                                           | 1.0000                      | 5.50                         | 12.51                      | 5.50                   | Pass       |
| NR Band n77 (3700-3980 PC2)      | 3705.0          | -1.13              | 27.00                                    | 25.87                         | 30.00                 | 501.1872                     | 0.0769                                           | 1.0000                      | 3.00                         | 10.01                      | 3.00                   | Pass       |
| NR Band n77 (3700-3980 PC2 MIMO) | 3705.0          | -1.13              | 30.00                                    | 28.87                         | 30.00                 | 1000.0000                    | 0.1534                                           | 1.0000                      | 0.00                         | 7.01                       | 0.00                   | 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 (NR UL CA\_n41A-n71A) situation is 0.1415+0.1952=0.3367, which is less than "1", this confirmed that the device comply with MPE limit.

---End of Report---



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