

Report No.: XEWM2306000327RG02

Rev.: 01

Page: 1 of 10

# TEST REPORT

**Application No.:** XEWM2306000327RG  
**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:** LTE Module  
**Model No.:** FM101R-GL  
**Trade Mark:** Fibocom  
**FCC ID:** ZMOFM101RGL  
**Standards:** 47 CFR Part 2.1091  
 FCC KDB 447498 D01 v06  
**Date of Receipt:** 2023/06/25  
**Date of Issue:** 2023/07/20

<b>Test Result:</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Peter Tan  
Regulatory Technical Manager



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Wireless Laboratory

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Report No.: XEWM2306000327RG02

Rev.: 01

Page: 2 of 10

# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/07/20		Original

<b>Prepared By</b>	 <hr/> (Leah Chen) / Test Engineer
<b>Checked By</b>	 <hr/> (Andy Yao) /Reviewer



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## Contents

1	Version .....	2
2	General Information .....	4
2.1	Client Information .....	4
2.2	Test Facility .....	4
2.3	General Description of EUT .....	5
3	RF Exposure Evaluation .....	7
3.1	RF Exposure Compliance Requirement .....	7
3.1.1	Limits .....	7
3.1.2	Test Procedure .....	8
3.1.3	EUT RF Exposure Evaluation .....	8
3.1.4	Exposure calculations for multiple sources .....	10



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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. 4854.01)**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

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

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

**• FCC –Designation Number: CN1337**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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### 2.3 General Description of EUT

EUT Description:	LTE Module			
Model No.:	FM101R-GL			
Trade Mark:	Fibocom			
Hardware Version:	V1.4			
Software Version:	19502.0000.00.11.01.06			
Antenna Type:	Monopole Antenna, PIFA Antenna			
Antenna Gain:	Monopole Antenna:			
	WCDMA Band II:	4dBi	WCDMA Band IV:	3dBi
	WCDMA Band V:	3dBi		
	LTE Band 2:	4dBi	LTE Band 4:	3dBi
	LTE Band 5:	3dBi	LTE Band 7:	4dBi
	LTE Band 12:	3dBi	LTE Band 13:	3dBi
	LTE Band 14:	3dBi	LTE Band 17:	3dBi
	LTE Band 25:	4dBi	LTE Band 26:	3dBi
	LTE Band 30:	1dBi	LTE Band 38:	4dBi
	LTE Band 41:	4dBi	LTE Band 48:	1dBi
	LTE Band 66:	3dBi	LTE Band 71:	3dBi
	LTE CA_5B:	3dBi	LTE CA_7C:	4dBi
	LTE CA_38C:	4dBi	LTE CA_41C:	4dBi
	PIFA Antenna:			
	WCDMA Band II:	4dBi	WCDMA Band IV:	3dBi
	WCDMA Band V:	3dBi		
	LTE Band 2:	4dBi	LTE Band 4:	3dBi
	LTE Band 5:	3dBi	LTE Band 7:	4dBi
	LTE Band 12:	3dBi	LTE Band 13:	3dBi
	LTE Band 14:	3dBi	LTE Band 17:	3dBi
	LTE Band 25:	4dBi	LTE Band 26:	3dBi
	LTE Band 30:	1dBi	LTE Band 38:	4dBi
	LTE Band 41:	4dBi	LTE Band 48:	1dBi
	LTE Band 66:	3dBi	LTE Band 71:	3dBi
LTE CA_5B:	3dBi	LTE CA_7C:	4dBi	
LTE CA_38C:	4dBi	LTE CA_41C:	4dBi	



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Report No.: XEWM2306000327RG02

Rev.: 01

Page: 6 of 10

	<p>Note:</p> <p>The antenna gain are derived from the gain information report provided by the manufacturer.</p>
<p>Remark:</p> <p>1. The AntennaType (Monopole Antenna) will be tested.</p> <p>2. 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.</p>	



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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 <sup>2</sup> )	Averaging time (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

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 <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
WCDMA Band II	1852.4	4.00	24.50	28.50	33.00	0.1408	1.0000	8.50	12.51	8.50	Pass
WCDMA BandIV	1712.4	3.00	24.50	27.50	30.00	0.1119	1.0000	5.50	12.51	5.50	Pass
WCDMA BandV	828.4	3.00	24.50	25.35	38.45	0.1119	0.5523	16.10	9.93	9.93	Pass
LTE Band 2	1850.7	4.00	24.00	28.00	33.00	0.1255	1.0000	9.00	13.01	9.00	Pass
LTE Band 4	1710.7	3.00	24.00	27.00	30.00	0.0997	1.0000	6.00	13.01	6.00	Pass
LTE/CA Band 5	824.7	3.00	25.00	25.85	38.45	0.1255	0.5498	15.60	9.41	9.41	Pass
LTE/CA Band 7	2502.5	4.00	24.00	28.00	33.00	0.1255	1.0000	9.00	13.01	9.00	Pass
LTE Band 12	699.7	3.00	25.00	25.85	34.77	0.1255	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	3.00	25.00	25.85	34.77	0.1255	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	3.00	25.00	25.85	34.77	0.1255	0.5270	11.92	9.23	9.23	Pass
LTE Band 17	706.5	3.00	25.00	25.85	34.77	0.1255	0.4710	11.92	8.74	8.74	Pass
LTE Band 25	1850.7	4.00	24.00	28.00	33.00	0.1255	1.0000	9.00	13.01	9.00	Pass
LTE Band 26 (814-824)	814.7	3.00	25.00	25.85	NA	0.1255	0.5431	NA	9.36	9.36	Pass
LTE Band 26 (824-849)	824.7	3.00	25.00	25.85	38.45	0.1255	0.5498	15.60	9.41	9.41	Pass
LTE Band 30	2307.5	1.00	23.00	24.00	24.00	0.0500	1.0000	1.00	14.01	1.00	Pass
LTE/CA Band 38	2572.5	4.00	24.00	28.00	33.00	0.1255	1.0000	9.00	13.01	9.00	Pass
LTE/CA Band 41	2498.5	4.00	24.00	28.00	33.00	0.1255	1.0000	9.00	13.01	9.00	Pass
LTE Band 48	3552.5	1.00	22.00	23.00	23.00	0.0397	1.0000	1.00	15.01	1.00	Pass
LTE Band 66	1710.7	3.00	24.00	27.00	30.00	0.0997	1.0000	6.00	13.01	6.00	Pass
LTE Band 71	665.5	3.00	25.00	25.85	34.77	0.1255	0.4437	11.92	8.48	8.48	Pass
Bluetooth	2402.0	5.00	23.00	28.00	NA	0.1255	1.0000	NA	NA	NA	NA
WLAN2.4GHz	2412.0	5.00	23.00	28.00	NA	0.1255	1.0000	NA	NA	NA	NA
WLAN5GHz	5180.0	5.00	23.00	28.00	NA	0.1255	1.0000	NA	NA	NA	NA

#### Note

1. This MPE analysis is applicable to any collocated transmitters with transmit power for WLAN is less than or equal to 28dBm and for Bluetooth is less than or equal to 28dBm.
2. A maximum antenna gain of 5dBi for WLAN/BT has been assumed for all collocated antennas.

This confirmed that the device comply with MPE limit.



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Due to the EUT support CA

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

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:  
 NOTE The corresponding MEs must be expressed in terms of power density in the above summation  
 Therefore, the worst-case(CA\_5B) situation is 0.228+0.228=0.456,which is less than “1”,  
 this confirmed that the device comply with MPE limit.



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### 3.1.4 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN + WiFi 2.4G + WiFi 5G + Bluetooth

No.	Mode	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Result Ratio	Total Ratio	Limit	Result
1	LTE Band 71	0.1255	0.4437	0.2828	0.6593	1.0000	Pass
	Bluetooth	0.1255	1.0000	0.1255			
	WiFi 2.4G	0.1255	1.0000	0.1255			
	WiFi 5G	0.1255	1.0000	0.1255			

Note : Considering the WWAN module collocation with the WLAN and Bluetooth transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant.

---End of Report---



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