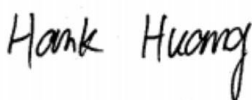


RF Exposure Evaluation Report

APPLICANT : Fibocom Wireless Inc.
EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : SC162-NA
FCC ID : ZMOSC162NA62
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

The product evaluation date was started from Aug. 04, 2026 and completed on Aug. 04, 2026. We, Sporton International Inc. (Shenzhen), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.



Approved by: Hank Huang

Sporton International Inc. (Shenzhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA670109	Rev. 01	Initial issue of report.	Aug. 24, 2026



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant	
Company Name	Fibocom Wireless Inc.
Address	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

Manufacturer	
Company Name	Fibocom Wireless Inc.
Address	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	5G Module
Brand Name	Fibocom
Model Name	SC162-NA
FCC ID	ZMOSC162NA62
Wireless Technology and Frequency Range	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	LTE: QPSK, 16QAM, 64QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
Antenna Gain	LTE Band 2 : 3.1 dBi LTE Band 4 : 3.1 dBi LTE Band 5 : 1.17 dBi LTE Band 7 : 2.56 dBi LTE Band 12 : 1.17 dBi LTE Band 13 : 1.17 dBi LTE Band 14 : 1.17 dBi LTE Band 17 : 1.17 dBi LTE Band 25 : 3.1 dBi LTE Band 26 : 1.17 dBi LTE Band 41 : 2.56 dBi LTE Band 66 : 3.1 dBi LTE Band 71 : 1.17 dBi 5G NR n2 : 3.1 dBi 5G NR n5 : 1.17 dBi 5G NR n7 : 2.56 dBi 5G NR n12 : 1.17 dBi 5G NR n25 : 3.1 dBi 5G NR n41 : 2.56 dBi

	5G NR n66 : 3.1 dBi 5G NR n71 : 1.17 dBi 5G NR n77 : 2.99 dBi 5G NR n78 : 2.99 dBi WLAN2.4GHz/Bluetooth: 1.83 dBi WLAN5.2GHz: 4.29 dBi WLAN5.3GHz: 4.43 dBi WLAN5.5GHz: 3.68 dBi WLAN5.8GHz: 1.47 dBi
Antenna Type	WWAN: Dipole Antenna WLAN/BT: Dipole Antenna
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The EN-DC mode combination could be referred to the product spec.
3. 5GNR n2/5/7/12/25/41/66/71/77/78 supports SA /NSA mode.
4. This device supports HPUE mode for 5GNR n41/77/78 with Power Class 2, therefore, MPE analysis was performed using HPUE mode.

Comments and Explanations:

1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

3. Maximum RF average output tune up power among production units

<LTE>

Mode		Maximum Average power(dBm)
LTE	Band 2	25.0
	Band 4	25.0
	Band 5	25.0
	Band 7	25.0
	Band 12	25.0
	Band 13	25.0
	Band 14	25.0
	Band 17	25.0
	Band 25	25.0
	Band 26	25.0
	Band 41	25.0
	Band 66	25.0
	Band 71	25.0

<5GNR>

Mode		Maximum Average power(dBm)
5GNR	n2	25.0
	n5	25.0
	n7	25.0
	n12	25.0
	n25	25.0
	n41	25.0
	n41 HPUE	28.0
	n66	25.0
	n71	25.0
	n77	25.0
	n77 HPUE	28.0
	n78	25.0
	n78 HPUE	28.0

<2.4GHz WLAN >

Frequency	Mode	Maximum Average Power (dBm)
WLAN 2.4GHz	802.11b	20.00
	802.11g	19.00
	802.11n-HT20	18.00
	802.11n-HT40	17.00

<Bluetooth>

Frequency	Mode	Maximum Average Power (dBm)
Bluetooth	BR/EDR	13.50
	LE	9.00

<WLAN 5GHz >

Frequency	Mode	Maximum Average Power (dBm)
WLAN 5GHz	802.11a	19.00
	802.11n-HT20	18.00
	802.11n-HT40	17.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	17.00
	802.11ac-VHT80	16.00

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Average EIRP (dBm)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
LTE Band 2	1850.0	3.10	25.00	28.100	645.654	0.129	1.000	0.129
LTE Band 4	1710.0	3.10	25.00	28.100	645.654	0.129	1.000	0.129
LTE Band 5	824.0	1.17	25.00	26.170	414.000	0.082	0.549	0.150
LTE Band 7	2500.0	2.56	25.00	27.560	570.164	0.113	1.000	0.113
LTE Band 12	699.0	1.17	25.00	26.170	414.000	0.082	0.466	0.177
LTE Band 13	777.0	1.17	25.00	26.170	414.000	0.082	0.518	0.159
LTE Band 14	788.0	1.17	25.00	26.170	414.000	0.082	0.525	0.157
LTE Band 17	704.0	1.17	25.00	26.170	414.000	0.082	0.469	0.176
LTE Band 25	1850.0	3.10	25.00	28.100	645.654	0.129	1.000	0.129
LTE Band 26	814.0	1.17	25.00	26.170	414.000	0.082	0.543	0.152
LTE Band 41	2496.0	2.56	25.00	27.560	570.164	0.113	1.000	0.113
LTE Band 66	1710.0	3.10	25.00	28.100	645.654	0.129	1.000	0.129
LTE Band 71	663.0	1.17	25.00	26.170	414.000	0.082	0.442	0.186
5G NR n2	1850.0	3.10	25.00	28.100	645.654	0.129	1.000	0.129
5G NR n5	824.00	1.17	25.00	26.170	414.000	0.082	0.549	0.150
5G NR n7	2500.00	2.56	25.00	27.560	570.164	0.113	1.000	0.113
5G NR n12	699.00	1.17	25.00	26.170	414.000	0.082	0.466	0.177
5G NR n25	1850.00	3.10	25.00	28.100	645.654	0.129	1.000	0.129
5G NR n41	2496.00	2.56	28.00	30.560	1137.627	0.226	1.000	0.226
5G NR n66	1710.00	3.10	25.00	28.100	645.654	0.129	1.000	0.129
5G NR n71	663.00	1.17	25.00	26.170	414.000	0.082	0.442	0.186
5G NR n77	3450.00	2.99	28.00	30.990	1256.030	0.250	1.000	0.250
5G NR n78	3450.00	2.99	28.00	30.990	1256.030	0.250	1.000	0.250
2.4GHz WLAN	2412.00	1.83	20.00	21.830	152.405	0.030	1.000	0.030
5GHz WLAN	5180.00	4.43	19.00	23.430	220.293	0.044	1.000	0.044
Bluetooth	2402.0	1.83	13.50	15.330	34.119	0.007	1.000	0.007

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum RF output tune up power and the maximum antenna gain of all antennas among same frequency WWAN/WLAN bands to perform MPE calculation conservatively.

5.2. Collocated Power Density Calculation

WWAN Power Density / Limit	Maximum WLAN 2.4GHz/5GHz Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of WWAN + WLAN 2.4GHz/5GHz + Bluetooth
0.250	0.044	0.007	0.301

<LTE + 5GNR + WLAN 2.4GHz/5GHz+BT>:

Maximum WWAN LTE Power Density / Limit	Maximum WWAN 5GNR Power Density / Limit	Maximum WLAN 2.4GHz/5GHz Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of WWAN LTE + WWAN 5GNR + WLAN 2.4GHz/5GHz+ Bluetooth
0.186	0.250	0.044	0.007	0.487

Note:

1. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz cannot transmit simultaneously.
2. Always choose the worst evaluation value of NR and LTE standalone bands for co-located analysis.
3. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN 2.4GHz/5GHz + Bluetooth / LTE + 5GNR + WLAN 2.4GHz/5GHz + Bluetooth.
4. Considering all transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of all collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the equipment at least 20 cm to show compliance with the power density limit, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----