

FCC RF EXPOSURE REPORT

FCC ID: ZMOSQ806W

Project No.	:	2203C006
Equipment	:	WiFi Smart Module
Brand Name	:	Fibocom
Test Model	:	SQ806-W
Series Model	:	N/A
Applicant	:	Fibocom Wireless Inc.
Address	:	1101, Tower A, Building 6, Shenzhen International Innovation Valley,
		Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer	:	Fibocom Wireless Inc.
Address	:	1101, Tower A, Building 6, Shenzhen International Innovation Valley,
		Dashi 1st Rd, Nanshan, Shenzhen, China
Date of Receipt	:	Mar. 08, 2022
Date of Test	:	Mar. 09, 2022 ~ Mar. 25, 2022
Issued Date	:	Mar. 31, 2022
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2022030911
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Approved by : Steven Lu



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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2203C006	R00	Original Report	Mar. 31, 2022	Valid



1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna: For BT/LE/2.4 GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	shenzhen bogesi communication technology co.,Itd	GHT-019A	Dipole	SMA Male J	2.3

Note:

The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	shenzhen bogesi communication technology co.,Itd	GHT-019A	Dipole	SMA Male J	3.66

Note:

The antenna gain is provided by the manufacturer.



3. TEST RESULTS

Tune up tolerance(dBm)							
BT LE 2.4GHz 5GHz							
11.50	3.50	20.00	22.00				

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.3	1.6982	11.50	14.1254	0.00477	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.3	1.6982	3.50	2.2387	0.00071	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.3	1.6982	20.00	100.0000	0.03380	1	Complies

For 5GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.66	2.3227	22.00	158.4893	0.07327	1	Complies

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

End of Test Report