

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.

Grani Zhou

Prepared by : Grani Zhou

Steven Lu

Approved by : Steven Lu



TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792
People's Republic of China
Tel: +86-769-8318-3000
Web: www.newbtl.com

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:

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

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.,ltd	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.,ltd	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