

FCC RF EXPOSURE REPORT

FCC ID: ZMOLC116LA

Project No. : 2111C168
Equipment : LTE Module
Brand Name : Fibocom
Test Model : LC116-LA
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
Factory : Huizhou HYE Technology Co., Ltd.
Address : No. 237, Sanhe group, Sanhe village, Tonghu Town, Zhongkai hi tech
Zone, Huizhou
Date of Receipt : Nov. 29, 2021
Date of Test : Dec. 20, 2021 ~ Jan. 08, 2022
Issued Date : Feb. 17, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG2021122079
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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

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TESTING CERT #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Feb. 17, 2022

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 GSM:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Dipole	SMA	-1.4	GSM850
				0.9	PCS1900

Note: The antenna gain is provided by the manufacturer.

For WCDMA:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Dipole	SMA	0.9	WCDMA Band II
				-1.4	WCDMA Band V

Note: The antenna gain is provided by the manufacturer.

For LTE:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Dipole	SMA	0.9	LTE Band 2
				1.4	LTE Band 4
				-1.4	LTE Band 5
				2.6	LTE Band 7

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For GSM:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
GSM850	848.8	31.88	-1.4	0.72	1116.86	0.2222	0.5659	Complies
PCS1900	1909.8	28.82	0.9	1.23	937.56	0.1865	1.0000	Complies

For WCDMA:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
WCDMA II	1880	23.67	0.9	1.23	286.42	0.0570	1.0000	Complies
WCDMA V	836.4	23.57	-1.4	0.72	164.82	0.0328	0.5576	Complies

For LTE:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
Band 2	1857.5	23.22	0.9	1.23	258.23	0.0514	1.0000	Complies
Band 4	1715	23.21	1.4	1.38	289.07	0.0575	1.0000	Complies
Band 5	847.5	23.19	-1.4	0.72	151.01	0.0300	0.5650	Complies
Band 7	2505	23.16	2.6	1.82	376.70	0.0749	1.0000	Complies

End of Test Report