FCC RF EXPOSURE REPORT

FCC ID: ZMOLE270LA

Project No.	:	2407C095A
Equipment	:	LTE Module
Brand Name	:	Fibocom
Test Model	:	LE270-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	:	Fibocom Wireless Inc.
Address	:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Date of Receipt	:	Aug. 07, 2024
Date of Test	:	Aug. 09, 2024 ~ Aug. 29, 2024
Issued Date	:	Apr. 17, 2025
Report Version	:	R00
Test Sample	:	Engineering Sample No.: SSL2024080742.
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2407C095A	R00	This is a supplementary report to the original test report (BTL-FCCP-4-2407C095). 1. Added a new power IC and the location of the capacitor and resistor has changed. The other hardware is completely identical. (There is no change in the RF part.) 2. Added the seven antennas (Ant.2~8). Based on above described changes, so used the worst new antenna to calculate. The calculation result of original antenna please refer to original report.	Apr. 17, 2025	Valid

1. 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

2. ANTENNA SPECIFICATION

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	BGS	GHT-019A	Dipole	SMA Male J	2.85	LTE Band 2
					2.98	LTE Band 4
					1.32	LTE Band 5
					2.21	LTE Band 7
					1.71	LTE Band 38
					2.21	LTE Band 41
					2.98	LTE Band 66
2		F-0Y-31-0116-001-K0	FPC	IPEX	3.13	LTE Band 2
					2.26	LTE Band 4
					-2.46	LTE Band 5
					3.39	LTE Band 7
					3.5	LTE Band 38
					3.64	LTE Band 41
					2.26	LTE Band 66
3		F-0Y-31-0116-002-K0	FPC	IPEX	1.48	LTE Band 2
					2.83	LTE Band 4
					-0.39	LTE Band 5
					3	LTE Band 7
					1.83	LTE Band 38
					3.36	LTE Band 41
					3.51	LTE Band 66
4	Kenbotong	TQX-071427HK22	Dipole	IPEX-1	5.41	LTE Band 2
					3.49	LTE Band 4
					1.97	LTE Band 5
					3.4	LTE Band 7
					3.4	LTE Band 38
					3.7	LTE Band 41
					3.96	LTE Band 66

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
5	Kenbotong	KIT-HK23-PT24-4G	Dipole	IPEX-1	4.57	LTE Band 2
					2.59	LTE Band 4
					2.76	LTE Band 5
					3.64	LTE Band 7
					3.18	LTE Band 38
					3.64	LTE Band 41
					2.79	LTE Band 66
6		F-0Y-31-0166-001-K0	FPC	IPEX	3.75	LTE Band 2
					3.6	LTE Band 4
					1.55	LTE Band 5
					4.71	LTE Band 7
					4.71	LTE Band 38
					4.71	LTE Band 41
					3.6	LTE Band 66
7	Kenbotong	TQX-071427HK22-L	Dipole	IPEX-1	3.48	LTE Band 2
					2.65	LTE Band 4
					1.99	LTE Band 5
					2.27	LTE Band 7
					2.49	LTE Band 38
					3.68	LTE Band 41
					2.65	LTE Band 66
8	HEDA	HD0255-02-A01	FPC	IPEX-1	1.1	LTE Band 2
					0.2	LTE Band 4
					-1.1	LTE Band 5
					0.6	LTE Band 7
					-0.3	LTE Band 38
					0.6	LTE Band 41
					0.7	LTE Band 66

Note:
(1) The antenna gain is provided by the manufacturer.
(2) The antennas are not attached when sales.

3. CALCULATED RESULT

Band	Frequency (MHz)	Max. Tune up 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	1850.7	25	5.41	3.4754	1099.01	0.2186	1.0000	Complies
Band 4	1710.7	25	3.60	2.2909	724.44	0.1441	1.0000	Complies
Band 5	824.7	25	2.76	1.8880	597.0353	0.1188	0.5498	Complies
Band 7	2502.5	25	4.71	2.9580	935.41	0.1861	1.0000	Complies
Band 38	2572.5	25	4.71	2.9580	935.41	0.1861	1.0000	Complies
Band 41	2572.5	25	4.71	2.9580	935.41	0.1861	1.0000	Complies
Band 66	2572.5	25	3.96	2.4889	787.05	0.1566	1.0000	Complies

Note:
(1) The calculated distance is 20 cm.

End of Test Report