FCC RF EXPOSURE REPORT

FCC ID: 2AO2D-MJJGYY02FM

Project No.	**:**	**1803C261**
Equipment	**:**	**Mi Ultra-Short Range Laser Projector**
Model	**:**	**MJJGYY02FM**
Series Model	**:**	**MJJGYYXXFM (X=0-9, A-Z,- or blank, indicates for different market purposes)**
Applicant	**:**	**Fengmi(Beijing)Technology Co.,Ltd**
Address	**:**	**301, 3F, Building 3 No. 10, Shunyi District Renhe Town Barracks South Street, Beijing, China**
According:	**:**	**FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

BTL INC.

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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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Internal	N/A	1.5

For 2.4G WIFI

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	1.5
2	N/A	N/A	Internal	N/A	1.5

Note:
(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and receivers (2T2R).

For 5G WIFI

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	2
2	N/A	N/A	Internal	N/A	2

Note:
(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and receivers (2T2R).

TEST RESULTS

EUT：	Mi Ultra-Short Range Laser Projector	Model Name :	MJJGYY02FM
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.5	1.4125	24.46	279.2544	0.07851459	1	Complies

5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.87	48.6407	0.01534442	1	Complies

5G Band UNII-2A

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.77	47.5335	0.01499513	1	Complies

5G Band UNII-2C

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.82	48.0839	0.01516877	1	Complies

5G Band UNII-3

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	16.97	49.7737	0.01570183	1	Complies

BT

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.5	1.4125	7.39	5.4828	0.00154152	1	Complies

LE

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.5	1.4125	5.56	3.5975	0.00101146	1	Complies

The BT +2.4G wifi or LE +2.4G wifi or BT+5G wifi or LE+5G wifi can transmit at the same time.
The Worst Case is below:
For BT+ 2.4G simultaneous transmission MPE:

0.07851459/1+0.00154152/1=0.08<1

Note: the calculated distance is 20 cm.