

# FCC RF EXPOSURE REPORT

## FCC ID: 2AIMRMITVMDZ22AG

**Project No.** : 2012C059  
**Equipment** : MI BOX  
**Brand Name** : MI  
**Test Model** : MDZ-22-AG  
**Series Model** : N/A  
**Applicant** : Beijing Xiaomi Electronics Co., Ltd.  
**Address** : Room 707, 7F, Building 5, No 58, JinghaiWulu Road, Beijing  
Economic and Technological Development Zone, China.  
**Manufacturer** : Beijing Xiaomi Electronics Co., Ltd.  
**Address** : Room 707, 7F, Building 5, No 58, JinghaiWulu Road, Beijing  
Economic and Technological Development Zone, China.  
**Factory** : SHENZHEN 3NOD ELECTRONICS CO.,LTD  
**Address** : No.74 Yangyong Road, Yanluostreet, Tangxiayong Community,  
Songgang, Baoan, Shenzhen, China  
**Date of Receipt** : Dec. 14, 2020  
**Date of Test** : Jan. 25, 2021 ~ Feb. 03, 2021  
**Issued Date** : Mar. 26, 2021  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG2021012236-1  
**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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Certificate #5123.02

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue	Feb. 26, 2021
R01	Updated the comments.	Mar. 26, 2021

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm 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& BT\_LE& WLAN 2.4GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	MI	MDZ-22-AG	PCB	N/A	0.5

For WLAN 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	MI	MDZ-22-AG	PCB	N/A	1

Note:

- 1) The antenna gain is provided by the manufacturer.

### 3. TEST RESULTS

For BT:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.5	1.1220	11.49	14.0929	0.00315	1	Complies

For BT\_LE:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.5	1.1220	11.37	13.7088	0.00306	1	Complies

For 2.4GHz:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.5	1.1220	23.69	233.8837	0.05223	1	Complies

For 5GHz UNII-1:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1	1.2589	14.17	26.1216	0.00655	1	Complies

For 5GHz UNII-2A:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1	1.2589	14.2	26.3027	0.00659	1	Complies

For 5GHz UNII-2C:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1	1.2589	14.16	26.0615	0.00653	1	Complies

For 5GHz UNII-3:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1	1.2589	14.3	26.9153	0.00674	1	Complies

**For the max simultaneous transmission MPE:**

BT+5G

Power Density (S) (mW/cm <sup>2</sup> )	Power Density (S) (mW/cm <sup>2</sup> )	Total	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
BT	5GHz			
0.00315	0.00674	0.00989	1	Complies

Note: The calculated distance is 20 cm.

**End of Test Report**