FCC RF EXPOSURE REPORT

Applicant	:	Beijing Xiaomi Electronics Co.,Ltd
Address	:	Room 707,7F,Building 5,No 58,Jinghai Wulu Road, Beijing economic and Technological Development Zone,100176 Beijing City,China
Equipment	:	Mi TV Stick
Model No.	:	MDZ-24-AB
Trade Name	:	MI
FCC ID.	:	2AIMRMITVMDZ24AB

I HEREBY CERTIFY THAT :

The sample was received on Jun. 10, 2021 and the testing was completed on Jul. 02, 2021 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li

Leevin Li /Supervisor

Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation)
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm²) ☒ General Population/Uncontrolled exposure (S=1mW/cm²)
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A

TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where *E = Field strength in Volts / meter*
P = Power in Watts
G = Numeric antenna gain
d = Distance in meters
S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and
d (cm) = d(m) /100

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$ ***Equation 1***

Where *d = Distance in cm*
P = Power in mW
G = Numeric antenna gain
S = Power density in mW / cm²

Maximum Permissible Exposure

Bluetooth

Mode	Frequency band (MHz)	Peak output power(dBm)	Peak output power(mW)	Antenna Gain (dBi)	Antenna gain (*Numeric*)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
Bluetooth EDR	2402-2480	**2.04**	**1.599558029**	**3.61**	**2.30**	**20**	**0.000730892**	**1**
Bluetooth LE	2402-2480	**2.38**	**1.729816359**	**3.61**	**2.30**	**20**	**0.000790411**	**1**

Wlan

Test Mode	Frequency band (MHz)	Peak output power(dBm)	Peak output power(mW)	Antenna Gain (dBi)	Antenna gain (*Numeric*)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
WLAN 2.4G	2412-2462	25.28	337.2873087	2.32	1.71	20	0.114512548	1
WLAN 5G	5180-5240	14.85	30.54921113	4.7	2.95	20	0.017941266	1
	5745-5825	12.08	16.14358557	4.7	2.95	20	0.009480977	1

Note:

Maximum Permissible Exposure (Co-location)

Modulation Mode	Frequency band (MHz)	Peak output power(dBm)	Peak output power(mW)	Antenna Gain (dBi)	Antenna gain (*Numeric*)	Distance (cm)	Power density (mW/cm2)
Bluetooth	2402-2480	**2.38**	**1.729816359**	**3.61**	**2.30**	**20**	**0.000790411**
Wlan	2412-2462	25.28	337.2873087	**2.32**	**1.71**	**20**	**0.114512548**
Co-location Total							**0.115302959**
Maximum Permissible Exposure Limit							**1**