

RF EXPOSURE REPORT

Report No.: DDT-B25020806-9E04

Applicant		Beijing Xiaomi Electronics Co., Ltd		
Address	Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Developm Zone, Beijing City, China.			
Equipment under Test	• •	Xiaomi Sound Party		
Model No.	••	MDZ-39-DB		
Trade Mark	: XIAOMI; Xiaomi; XIOOMI			
FCC ID	••	2AIMR-MDZ39DB		
Manufacturer	: Beijing Xiaomi Electronics Co., Ltd			
Address	Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Developm Zone, Beijing City, China.			

Issued By: Tianjin Dongdan Westing Service Co., Ltd.

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Tianjin Dongdian Testing Seprice Lidiano the configuration assessed the equipment complied with the standards specific desover. The assessed results are contained in this report and Tianjin Dongdian Testing Service Co. Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with boxestandard.

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Report No:	DDT-B25020906-9E04			Inspection & Testing Services
Date of Receipt:	Feb. 11, 2025	Date of Test:	Feb. 11, 2025 ~	Feb. 20, 2025

Prepared By:	Approved By:
Nwak Wei	Aaron Zhang
Novak Wei/Engineer	

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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Revision History

Rev.	Revisions		Issue Date Revised		
	Initial issue	-Or	Mar. 01, 2025	3	
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1. General information

1.1. Description of Equipment

EUT* Name	:	Xiaomi Sound Party			
Model Number	:	MDZ-39-DB			
EUT function description	:	Please reference user manual of this device			
Power supply	:	DC 7.3 V by internal battery			
Radio Specification	:	Bluetooth V5.4			
Operation Frequency	:	2402 MHz - 2480 MHz			
Modulation	-	GFSK			
Transmitter Rate	1	1 Mbps,2 Mbps			
Antenna Type	1	PCB antenna, maximum PK gain: 2.73 dBi			
Exposure category	1	General population/uncontrolled environment			
Device Type	:	Mobile Device			

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Power supply	:	DC 7.3 V by internal battery
Radio Specification	:	Bluetooth V5.4
Operation Frequency	:	2402 MHz - 2480 MHz
Modulation	:	GFSK, π/4-DQPSK, 8DPSK
Transmitter Rate	•	1 Mbps,2 Mbps, 3 Mbps,
Antenna Type	•	PCB antenna, maximum PK gain: 2.73 dBi
Exposure category	:	General population/uncontrolled environment
Device Type	:	Mobile Device

1.2. Assess laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, http://www.ddttest.com, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	ge Electric Field Magnetic Field Strength (E) (V/m) (A/m) Po		Power Density (S) (mW/ cm ²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-100,000			1.0	30	

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

Worst Mode	May namer	Output	Antenna	Antenna	MPE	MPE
	Max. power	power	Gain	Gain	Values	Limit
	(dBm)	(mW)	(dBi)	(linear)	(mW/cm ²)	(mW/cm ²)
EDR	9	7.94	2.73	1.87	0.003	1
BLE	7	5.01	2.73	1.87	0.002	1

Note: The estimation distance is 20 cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT