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RF Exposure Evaluation Report

Product: Mi Bluetooth Speaker

Trade mark : N/A

Model/Type reference : MDZ-26-DA

Serial Number : N/A

Report Number : EED32J00053003 FCC ID : 2AFZYMDZ-26-DB

Date of Issue : Apr. 17, 2017

Test Standards : 47 CFR Part 1.1307 (2015)

47 CFR Part 2.1093 (2015)

KDB447498D01 v06

Test result : PASS

Prepared for:

Xiaomi Inc

The Rainbow City of China Resources, No. 68, Qinghe Middle Street, Haidian District, Beijing, China

Prepared by:

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Report Seal









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2 Version

Version No.	Date		Description	
00	Apr. 17, 2017		Original	
	(5)	(60)	(0)	10







































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4 General Information

4.1 Client Information

Applicant:	Xiaomi Inc
Address of Applicant:	The Rainbow City of China Resources, No. 68, Qinghe Middle Street, Haidian District, Beijing, China
Manufacturer:	Xiaomi Inc
Address of Manufacturer:	The Rainbow City of China Resources, No. 68, Qinghe Middle Street, Haidian District, Beijing, China
Factory:	Shenzhen 3Nod Digital Technology Co., Ltd.
Address of Factory:	Building D Park 8# Langhui Road Tangxiayong Village Industrial Zone Songgang Town Baoan District Shenzhen City China

4.2 General Description of EUT

Product Name:	Mi Bluetooth Speaker	(3)	13
Model No.:	MDZ-26-DA	(6,7,2)	(62)
Trade mark:	N/A		0
EUT Supports Radios application:	BT 4.0 Dual mode		

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Hardware Version:	V1.0(manufacturer declare)	- 17 19
Software Version:	V1.0(manufacturer declare)	
Test Power Grade:	4 (manufacturer declare)	10
Test Software of EUT:	Bluetooth MP Tool (manufacturer declare)	
Antenna Type:	Monopole	
Antenna Gain:	2.5dBi	
Test Voltage:	AC 120V/60Hz	
Conducted Peak Power:	5.301dBm	
Sample Received Date:	Mar. 28, 2017	
Sample tested Date:	Mar. 28, 2017 to Apr. 17, 2017	13
The tested sample and the	e sample information are provided by the client.	(62)

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.











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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

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The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.



None.









































































































5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\sqrt{f(GHz)}$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Output Power is 5.301dBm in highest channel(2.480GHz);

The best case gain of the antenna is 2.5dBi.

EIRP= 5.301dBm + 2.5dBi = 7.801dBm

7.801dBm logarithmic terms convert to numeric result is nearly 6.03mW

According to the formula:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}]$

General RF Exposure = $(6.03\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 1.90$

SAR requirement:

S= 3.0

1 < 2.

So the SAR report is not required.



2;





















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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32J00053001 for EUT external and internal photos.

*** End of Report ***

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