

FCC RF EXPOSURE EVALUATION REPORT

Product Name: MI BOX
Trade Mark: MI
Model No.: MDZ-22-AB
Report Number: 180320001RFC-5
Test Standards: FCC 47 CFR Part 1 Subpart I
FCC ID: 2AIMRMITVMDZ22AB
Test Result: PASS
Date of Issue: June 22, 2018

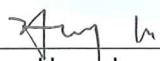
Prepared for:

Beijing Xiaomi Electronics Co.,Ltd
**Room 707,7F;Building 5,No 58,JinghaiWulu Road Beijing economic
& Technological Development Zone, Beijing, China**

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd.
16/F, Block A, Building 6, Baoneng Science and Technology Park,
Qingxiang Road No.1, Longhua New District, Shenzhen, China
TEL: +86-755-2823 0888
FAX: +86-755-2823 0886

Tested by:


Henry Lu
Project Engineer

Reviewed by:


Kevin Liang
Assistant Manager

Approved by:


Billy Li
Technical Director

Date:

June 22, 2018



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

[Http://www.uttlab.com](http://www.uttlab.com)

Version

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Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Beijing Xiaomi Electronics Co.,Ltd
Address of Applicant:	Room 707,7F,Building 5,No 58,JinghaiWulu Road Beijing economic & Technological Development Zone, Beijing, China
Manufacturer:	Beijing Xiaomi Electronics Co.,Ltd
Address of Manufacturer:	Room 707,7F,Building 5,No 58,JinghaiWulu Road Beijing economic & Technological Development Zone, Beijing, China

1.2 EUT INFORMATION

Product Name:	MI BOX		
Model No.:	MDZ-22-AB		
Add. Model No.:	MDZ-22-AC, MDZ-22-AD, MDZ-22-AE, MDZ-22-AF (See Note 1)		
Trade Mark:	MI		
DUT Stage:	Identical Prototype		
EUT Supports Function:	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth: V4.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
Sample Received Date:	May 9, 2018		
Sample Tested Date:	May 18, 2018 to May 31, 2018		
Note 1: The additional model MDZ-22-AC, MDZ-22-AD, MDZ-22-AE, MDZ-22-AF is identical with the test model MDZ-22-AB except the model number for marketing purpose.			

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_LE	
Frequency Band:	2400 MHz to 2483.5 MHz
Bluetooth Version:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.5 dBi
Maximum Peak Power:	8.29 dBm

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Bluetooth Version:	Bluetooth EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.5 dBi
Maximum Peak Power:	10.70 dBm

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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For 2.4 GHz ISM Band of Wi-Fi	
Frequency Band:	2400 MHz to 2483.5 MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM(64QAM, 16QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7 IEEE 802.11n-HT40: Up to MCS7
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11 IEEE 802.11n-HT40: 7
Channel Separation:	5 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.5 dBi
Maximum Peak Power:	IEEE 802.11b: 18.92 dBm IEEE 802.11g: 24.62 dBm IEEE 802.11n-HT20: 22.37 dBm IEEE 802.11n-HT40: 20.43 dBm

For 5 GHz U-NII Bands of Wi-Fi	
Frequency Band:	5150 MHz to 5250 MHz
	5250 MHz to 5350 MHz
	5470 MHz to 5725 MHz
	5 725 MHz to 5 850 MHz
Support Standards:	IEEE 802.11a/n/ac
TPC Function:	Not Support
DFS Operational mode:	Slave without radar Interference detection function
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz
	IEEE 802.11n-HT40/ac-VHT40: 40 MHz
	IEEE 802.11ac-VHT80: 80 MHz
Data Rate:	IEEE 802.11a: Up to 54 Mbps
	IEEE 802.11n-HT20: Up to MCS7
	IEEE 802.11n-HT40: Up to MCS7
	IEEE 802.11ac-VHT20: Up to MCS8
	IEEE 802.11ac-VHT40: Up to MCS9
	IEEE 802.11ac-VHT80: Up to MCS9
Number of Channels:	5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80
	5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80

	5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n-HT20/ac-VHT20 5 for IEEE 802.11n-HT40/ac-VHT40 2 for IEEE 802.11ac-VHT80				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
Antenna Type:	PCB Antenna				
Antenna Gain:	5150 MHz to 5250 MHz: 1.9 dBi				
	5250 MHz to 5350 MHz: 1.9 dBi				
	5470 MHz to 5725 MHz: 1.9 dBi				
	5725 MHz to 5850 MHz: 1.9 dBi				
Max. Avg. Power (dBm):	Mode	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	12.64	13.21	11.74	11.64
	IEEE 802.11n-HT20:	11.75	11.75	11.67	10.78
	IEEE 802.11n-HT40:	7.98	7.95	7.69	7.79
	IEEE 802.11ac-VHT80:	8.38	8.62	8.59	8.47

1.4 OTHER INFORMATION

Test channels for BT_LE				
Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
GFSK	2402 MHz to 2480 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

Test channels for BT_EDR				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
GFSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
$\pi/4$ DQPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
8DPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz

Test channels for 2.4 GHz ISM Band of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT40	2422 MHz to 2452 MHz	Channel 3	Channel 6	Channel 9
		2422 MHz	2437 MHz	2452 MHz

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Test channels for 5 GHz U-NII Bands of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
	5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 161
		5745 MHz	5785 MHz	5805 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5150 MHz to 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 MHz to 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134
		5510 MHz	5550 MHz	5670 MHz
	5725 MHz to 5850 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
IEEE 802.11ac-HT80	5150 MHz to 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 MHz to 5725 MHz	Channel 106	--	Channel 122
		5530 MHz	--	5610 MHz
	5725 MHz to 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I

All test items have been performed and recorded as per the above standards

1.6 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

[Http://www.uttlab.com](http://www.uttlab.com)

1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. 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 Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.

3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
2	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times 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
1500-100000	/	/	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

$$S = PG/4\pi R^2 = EIRP/4\pi R^2$$

S = power density (in appropriate units, e.g., mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and operating at 5470 MHz to 5725 MHz for IEEE802.11a/n/ac and operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 0: PCB Antenna

3.4.1.2 Antenna Gain:

Chain 0: 2412MHz to 2462 MHz: 1.5 dBi
5150 MHz to 5250 MHz: 1.9 dBi
5250 MHz to 5350 MHz: 1.9 dBi
5470 MHz to 5725 MHz: 1.9 dBi
5725 MHz to 5850 MHz: 1.9 dBi

3.4.1.3 Results for WLAN

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)		(dBi)	(dBm)	(mW)	(mw/cm ²)	
Chain 0	IEEE 802.11b IEEE 802.11g	2412	16	1.5	19	79.4328	1	0.0158
		2437	16	1.5	19	79.4328	1	0.0158
		2462	16	1.5	19	79.4328	1	0.0158
	IEEE 802.11n	2412	12	1.5	15	31.6228	1	0.0063
		2437	12	1.5	15	31.6228	1	0.0063
		2462	12	1.5	15	31.6228	1	0.0063
	IEEE 802.11n-HT40	2422	12	1.5	15	31.6228	1	0.0063
		2437	12	1.5	15	31.6228	1	0.0063
		2452	12	1.5	15	31.6228	1	0.0063
	IEEE 802.11a	5180	13	1.5	16.4	43.6516	1	0.0087
		5220	13	1.5	16.4	43.6516	1	0.0087
		5240	13	1.5	16.4	43.6516	1	0.0087
		5260	13	1.5	16.4	43.6516	1	0.0087
		5300	13	1.5	16.4	43.6516	1	0.0087
		5320	13	1.5	16.4	43.6516	1	0.0087
		5500	13	1.5	16.4	43.6516	1	0.0087
		5580	13	1.5	16.4	43.6516	1	0.0087
		5700	13	1.5	16.4	43.6516	1	0.0087
		5745	13	1.5	16.4	43.6516	1	0.0087
		5785	13	1.5	16.4	43.6516	1	0.0087
		5825	13	1.5	16.4	43.6516	1	0.0087
	IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5180	12	1.5	15.4	34.6737	1	0.0069
		5220	12	1.5	15.4	34.6737	1	0.0069
		5240	12	1.5	15.4	34.6737	1	0.0069
		5260	12	1.5	15.4	34.6737	1	0.0069
		5300	12	1.5	15.4	34.6737	1	0.0069

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)		(dBi)	(dBm)	(mW)	(mw/cm ²)	
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ac-VHT80	5320	12	1.5	1.9	15.4	34.6737	1	0.0069
	5500	12	1.5	1.9	15.4	34.6737	1	0.0069
	5580	12	1.5	1.9	15.4	34.6737	1	0.0069
	5700	12	1.5	1.9	15.4	34.6737	1	0.0069
	5745	12	1.5	1.9	15.4	34.6737	1	0.0069
	5785	12	1.5	1.9	15.4	34.6737	1	0.0069
	5825	12	1.5	1.9	15.4	34.6737	1	0.0069
	5190	9	1.5	1.9	12.4	17.3780	1	0.0035
	5230	9	1.5	1.9	12.4	17.3780	1	0.0035
	5270	9	1.5	1.9	12.4	17.3780	1	0.0035
	5310	9	1.5	1.9	12.4	17.3780	1	0.0035
	5510	9	1.5	1.9	12.4	17.3780	1	0.0035
	5550	9	1.5	1.9	12.4	17.3780	1	0.0035
	5670	9	1.5	1.9	12.4	17.3780	1	0.0035
	5755	9	1.5	1.9	12.4	17.3780	1	0.0035
	5795	9	1.5	1.9	12.4	17.3780	1	0.0035
	5230	9	1.5	1.9	12.4	17.3780	1	0.0035
	5290	9	1.5	1.9	12.4	17.3780	1	0.0035
	5530	9	1.5	1.9	12.4	17.3780	1	0.0035
	5610	9	1.5	1.9	12.4	17.3780	1	0.0035
	5775	9	1.5	1.9	12.4	17.3780	1	0.0035

3.4.2 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK and

For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 0: Integral Antenna

3.4.2.2 Antenna Gain:

Chain 0: 2402MHz to 2480 MHz: 1.5 dBi

3.4.2.3 Results for BT

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	(mw/cm ²)	
LE	2402	7	1	1.5	9.5	8.9125	1	0.9982
	2440	7	1	1.5	9.5	8.9125	1	0.9982
	2480	7	1	1.5	9.5	8.9125	1	0.9982
EDR	2402	10	1	1.5	12.5	17.7828	1	0.9965
	2441	10	1	1.5	12.5	17.7828	1	0.9965
	2480	10	1	1.5	12.5	17.7828	1	0.9965

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

3.4.4.1 List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Support/Not Support
1	2.4G_WLAN + BT	Not Support
2	5G_WLAN + BT	Not Support
3	5G_WLAN + 2.4G_WLAN	Not Support

3.4.4.2 Results for transmit simultaneously

Not Applicable

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
