

# RF EXPOSURE REPORT

## FOR

<b>Applicant</b>	:	Guangzhou FiiO Electronics Technology Co., Ltd.
<b>Address</b>	:	2/F, F Building, Hougang Industrial Zone, Shigang Village, Huangshi West Road, Baiyun District, Guangzhou City, China.
<b>Equipment under Test</b>	:	Portable High Resolution Music Player
<b>Model No.</b>	:	M11 Pro, M15 Pro, M11K, M15K, M11 Plus, M15 Plus, M9 Plus, M7 Plus, M5 Plus, M3 Plus
<b>Trade Mark</b>	:	FiiO
<b>FCC ID</b>	:	R56-FCIDAN
<b>Manufacturer</b>	:	Guangzhou FiiO Electronics Technology Co., Ltd.
<b>Address</b>	:	2/F, F Building, Hougang Industrial Zone, Shigang Village, Huangshi West Road, Baiyun District, Guangzhou City, China.

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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# REPORT

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## TEST REPORT DECLARE

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<b>Address</b>	:	2/F, F Building, Hougang Industrial Zone, Shigang Village, Huangshi West Road, Baiyun District, Guangzhou City, China.

**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan 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 above standard.**

<b>Report No:</b>	DDT-R19081209-1E12		
<b>Date of Receipt:</b>	Aug. 16, 2019	<b>Date of Test:</b>	Aug. 16, 2019 ~ Nov. 20, 2019

**Prepared By:**

*Sam Li*

**Sam Li/Engineer**

**Approved By:**



**Damon Hu/EMC Manager**

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

### Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Nov. 22, 2019	

## 1. General information

### 1.1. Description of Equipment

EUT* Name	: Portable High Resolution Music Player
Model Number	: M11 Pro, M15 Pro, M11K, M15K, M11 Plus, M15 Plus, M9 Plus, M7 Plus, M5 Plus, M3 Plus
Difference of model number	: All models are identical except the appearance and model number, therefore the test performed on the model M11 Pro.
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from external AC Adapter : DC 3.8V built-in battery
Operation frequency	: Bluetooth: 2402MHz-2480MHz WIFI: IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5755MHz
Modulation	: Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK WIFI: IEEE 802.11b: DSSS (CCK, QPSK, BPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data rate	: Bluetooth: 1Mbps, 2Mbps, 3Mbps WIFI: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 104, 117, 130 Mbps IEEE 802.11n HT40: 13.5, 27, 40.5, 54, 81, 108, 121.5, 135 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4 Mbps IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps
Antenna Type	: Dedicated FPC antenna, maximum PK gain: 2.67 dBi
Sample Type	: Series production

### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com)

## 2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

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

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

The result is rounded to one decimal place for comparison

Worse case is as below: [2462MHz, 9.78dBm (9.51mW) AV output power]

$(9.51/5) \cdot [\sqrt{2.462(\text{GHz})}] = 2.98 < 3.0$  for 1-g SAR

Then SAR evaluation is not required

**END OF REPORT**