

## 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>	:	Bluetooth Headphone AMP
<b>Model No.</b>	:	μBTR, μBTRK, BTR1K, BTR3, BTR3K, BTR5, BTR5K, BTA10, BTA30, BTR7
<b>Trade Mark</b>	:	FiiO
<b>FCC ID</b>	:	R56-FCIDBT
<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-R18051006-1E8		
<b>Date of Receipt:</b>	May 10, 2018	<b>Date of Test:</b>	May 10, 2018~ May 30, 2018

**Prepared By:**

*Ella Gong*

**Ella Gong/Engineer**



**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	May 30, 2018	

## 1. General information

### 1.1. Description of Equipment

EUT* Name	: Bluetooth Headphone AMP
Model Number	: $\mu$ BTR, $\mu$ BTRK, BTR1K, BTR3, BTR3K, BTR5, BTR5K, BTA10, BTA30, BTR7
Difference of Model	: $\mu$ BTR, $\mu$ BTRK, BTR1K, BTR3, BTR3K, BTR5, BTR5K, BTA10, BTA30, BTR7 , all models have the same Antenna shape, circuit diagram and RF module, but only difference on appearance and color. There for the test performed on the model $\mu$ BTR.
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from external AC Adapter Lithium-ion polymer(3.7V/ 120mAh) built-in battery
Radio Specification	: Bluetooth V4.1
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Chip antenna, maximum PK gain: 3.0dBi
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: +86-0769-89201699, <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:

$f(\text{GHz})$  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: [2441MHz,4.44dBm (2.78mW) output power]

$(2.78/5) \cdot [\sqrt{2.441(\text{GHz})}] = 0.356 < 3.0$  for 1-g SAR

Then SAR evaluation is not required.

**END OF REPORT**