

# RF EXPOSURE REPORT

## FOR

<b>Applicant</b>	:	Shenzhen Kunhong Electronics Co., LTD
<b>Address</b>	:	Suites 2108-2110, Tower C, Times Square Excellence, Baoan Center, Shenzhen, China
<b>Equipment under Test</b>	:	Wireless Bluetooth earphones
<b>Model No.</b>	:	KHBT013, 71242, 71452, 71453
<b>Trade Mark</b>	:	N/A
<b>FCC ID</b>	:	2ATNH-BT013
<b>Manufacturer</b>	:	Shenzhen Kunhong Electronics Co., LTD
<b>Address</b>	:	Suites 2108-2110, Tower C, Times Square Excellence, Baoan Center, Shenzhen, 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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**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-R22072109-1E02		
<b>Date of Receipt:</b>	Jul. 29, 2022	<b>Date of Test:</b>	Jul. 29, 2022 ~ Aug. 15, 2022

**Prepared By:**

*Johnny Wang*

**Johnny Wang/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	Aug. 16, 2022	

## 1. General Information

### 1.1. Description of equipment

EUT* Name	: Wireless Bluetooth earphones
Model Number	: KHBT013, 71242, 71452, 71453
Difference of models	: Above models are identical in schematic and structure, only the name and colour are different for all the models, therefore the test performed on the model KHBT013.
EUT Function Description	: Please reference user manual of this device
Power Supply	: CHARGING CASE: DC 5V from external AC Adapter EARBUDS: DC 5V from external charging case CHARGING CASE: DC 3.7V Polymer Li-ion built-in battery EARBUDS: DC 3.7V Polymer Li-ion built-in battery
Radio Specification	: Bluetooth V5.1
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Gain	: Maximum PK gain: 1.24 dBi
Sample Type	: Series production
Sample Number	: S22072109-01 for conductive S22072109-02 for radiation

### 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).

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

## 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

### Manufacturing Tolerance

BT

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.06	6.52	6.41
Tolerance $\pm$ (dB)	1	1	1
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.55	6.75	6.70
Tolerance $\pm$ (dB)	1	1	1
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.81	7.10	<b>7.11</b>
Tolerance $\pm$ (dB)	1	1	1

### Estimation Result

Worse case is as below: [2480 MHz, 8.11 dBm, (6.47 mW) output power]

$(6.47/5) \cdot [\sqrt{2.480(\text{GHz})}] = 2.04 < 3.0$  for 1-g SAR

Then SAR evaluation is not required.

**END OF REPORT**