

# RF EXPOSURE REPORT

## FOR

<b>Applicant</b>	:	Guangzhou J&Y Safety Products Manufacturer Co.,Ltd
<b>Address</b>	:	No.5 Yongle Road, Huashan Town, Huadu District, Guangzhou, Guangdong, China
<b>Equipment under Test</b>	:	Bluetooth earmuffs
<b>Model No.</b>	:	EM-9005M
<b>Trade Mark</b>	:	N/A
<b>FCC ID</b>	:	2AX7VEM-9005M
<b>Manufacturer</b>	:	Guangzhou J&Y Safety Products Manufacturer Co.,Ltd
<b>Address</b>	:	No.5 Yongle Road, Huashan Town, Huadu District, Guangzhou, Guangdong, 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

**Tel.:** +86-0769-38826678, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

# REPORT

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## Test Report Declare

<b>Applicant</b>	:	Guangzhou J&Y Safety Products Manufacturer Co.,Ltd
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<b>Equipment under Test</b>	:	Bluetooth earmuffs
<b>Model No.</b>	:	EM-9005M
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<b>Manufacturer</b>	:	Guangzhou J&Y Safety Products Manufacturer Co.,Ltd
<b>Address</b>	:	No.5 Yongle Road, Huashan Town, Huadu District, Guangzhou, Guangdong, 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-R22050611-2E03		
<b>Date of Receipt:</b>	May 30, 2022	<b>Date of Test:</b>	May 30, 2022 ~ Jun. 20, 2022

**Prepared By:**

**Approved By:**

**Sanvin Zheng/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	Jun. 20, 2022	

## 1. General Information

### 1.1. Description of equipment

EUT* Name	: Bluetooth earmuffs
Model Number	: EM-9005M
EUT function description	: Please reference user manual of this device
Power Supply	: DC powered by Battery 4.5V ("AAA" Size *3)
Radio Specification	: Bluetooth V5.0
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna Gain	: 3.49 dBi
Serial Number	: N/A

### 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.

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:

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

$f(\text{GHz})$  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)	0.88	0.96	0.17
Tolerance ±(dB)	1	1	1
π/4DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	3.11	3.09	2.43
Tolerance ±(dB)	1	1	1
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	<b>3.53</b>	3.42	2.82
Tolerance ±(dB)	1	1	1

**BLE**

GFSK (Peak) 1M			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.27	1.33	0.60
Tolerance ±(dB)	1	1	1
GFSK (Peak) 2M			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.64	<b>1.67</b>	0.97
Tolerance ±(dB)	1	1	1

**Estimation Result**

Worse case is as below: [2402 MHz, 4.53 dBm, (2.84 mW) output power]

$(2.84/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.88 < 3.0$  for 1-g SAR

Then SAR evaluation is not required.

**END OF REPORT**