

RF EXPOSURE REPORT

FOR

Applicant	:	Zhongshan K-mate General Electronics Co., Ltd
Address	:	NO. 2, 5th Xinsheng Street, Gangkou Town, Zhongshan City, Guangdong, China
Equipment under Test	:	Bluetooth FM transmitter
Model No.	:	BTC031
Trade Mark	:	K-mate
FCC ID	:	WAD-BTC031
Manufacturer	:	Zhongshan K-mate General Electronics Co., Ltd
Address	:	NO. 2, 5th Xinsheng Street, Gangkou Town, Zhongshan City, Guangdong, China

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

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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.

Report No:	DDT-R18110602-1E3		
Date of Receipt:	Nov. 07, 2018	Date of Test:	Nov. 07, 2018 ~ Nov. 27, 2018

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. 27, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	: Bluetooth FM transmitter
Model Number	: BTC031
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from external AC Adapter : DC 3.7V 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	: Integral metal antenna, maximum PK gain: 0dBi
Sample Type	: Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

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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 ≤ 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 ≤ 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: [2480MHz, 8.49dBm (7.06mW) output power]

$(7.06/5) \cdot [\sqrt{2.480(\text{GHz})}] = 2.224 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT