

RF EXPOSURE REPORT

FOR

Applicant	:	Mitek Corp
Address	:	1 Mitek Plaza, Winslow, IL. 61089
Equipment under Test	:	Bluetooth Speaker
Model No.	:	MUD-HSB-BG2, K-HSB-SG2, K-HSB-BG2, K-HSB-CG2, Y-HSB-X (Y means customer, X means color or finish)
Trade Mark	:	MTX
FCC ID	:	2AAOY-Y-HSB-X
Manufacturer	:	Dong Guan Hung Pai Electronics Technology Co., Ltd.
Address	:	No. 18, PoLing Road, Gin Zhu Industrial District, JuXiang Management District, QingXi Town, Dong Guan City, Guang Dong Province, China

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

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

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Address	:	No. 18, PoLing Road, Gin Zhu Industrial District, JuXiang Management District, QingXi Town, Dong Guan City, Guang Dong Province, 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.

Report No:	DDT-R18070602-1E3		
Date of Receipt:	Jul. 17, 2018	Date of Test:	Jul. 17, 2018 ~ Jul. 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	Jul. 27, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	: Bluetooth Speaker
Model Number	: MUD-HSB-BG2, K-HSB-SG2, K-HSB-BG2, K-HSB-CG2, Y-HSB-X (Y means customer, X means color or finish)
Difference of model number	: All models are identical except the model number, therefore the test performed on the model MUD-HSB-BG2.
EUT function description	: Please reference user manual of this device
Power supply	: DC 12V/5A, Power 60W
Radio Specification	: Bluetooth V4.1
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Integral PCB antenna, maximum PK gain: 1.927dBi
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(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, 0.98dBm (0.39mW) output power]

$(0.39/5) \cdot [\sqrt{2.480} (\text{GHz})] = 0.123 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT