

RF EXPOSURE REPORT

FOR

Applicant	:	GXTSONIC TECHNOLOGY (HK) LIMITED
Address	:	FLAT/RM812, 8/F, HARRY INDUSTRIAL BUILDING 49-51 AU PUI WAN STREET FOTAN, NT, HONGKONG
Equipment under Test	:	PORTABLE SPEAKER
Model No.	:	CMA3830, MMA3830, CS-162
Trade Mark	:	CRAIG, MAGNAVOX
FCC ID	:	2AIN9-MMA-3830
Manufacturer	:	SHENZHEN GXTSONIC TECHNOLOGY CO., LTD
Address	:	1F, Building 3, Tianxin Shuichan Industrial Park, Gushu Village, Xixiang Town, Bao`an District, Shenzhen, 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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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-R20032304-1E2		
Date of Receipt:	Mar. 24, 2020	Date of Test:	Mar. 24, 2020 ~ Apr. 01, 2020

Prepared By:

Talent Zhang

Talent Zhang/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	Apr. 01, 2020	

1. General information

1.1. Description of Equipment

EUT* Name	: PORTABLE SPEAKER
Model Number	: CMA3830, MMA3830, CS-162
Difference of models	: Above models are identical in schematic and structure. Only the name is different for all the models, therefore the test performed on the model CS-162.
EUT function description	: Please reference user manual of this device
Power supply	: DC 3.7V form Built-in battery, or DC 5V from AC adapter
Radio Specification	: Bluetooth V5.0
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK
Data rate	: 1 Mbps, 2 Mbps
Antenna Type	: PCB layout antenna, maximum PK gain: -0.58 dBi
Sample Type	: Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

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2. RF Exposure evaluation

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: [2402MHz, 4.07 dBm, 2.55 mW) output power]

$(2.55/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.728 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT