

RF EXPOSURE REPORT

FOR

Applicant	:	Ocean Star Electronics Limited
Address	:	Unit 15, 8/F., Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, Hong Kong
Equipment under Test	:	Waterproof Bluetooth Shower Speaker
Model No.	:	SMPS-626, SMPS-626XXXXX, imove4
Trade Mark	:	JENSEN, OCEAN
FCC ID	:	LMZ-30300
Manufacturer	:	Ocean Star Electronics Limited
Address	:	Unit 15, 8/F., Wah Wai Centre, 38-40 Au Pui Wan Street, Fo Tan, Hong Kong

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.

Report No:	DDT-R19041104-1E3		
Date of Receipt:	Apr. 12, 2019	Date of Test:	Apr. 12, 2019 ~ Apr. 26, 2019

Prepared By:

Ella Gong

Ella Gong/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. 26, 2019	

1. General information

1.1. Description of Equipment

EUT* Name	: Waterproof Bluetooth Shower Speaker
Model Number	: SMPS-626, SMPS-626XXXXX, imove4
Difference of model number	: Where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers. Just the name is not used, no other difference. So, choose SMPS-626 to test.
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from external adapter or powered by a built-in 3.7V lithium battery
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: -4 dBi
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: [2402MHz, 5.45dBm 3.51mW) output power]

$(3.51/5) \cdot [\sqrt{2.402(\text{GHz})}] = 1.088 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT