

■Report No.: DDT-R19090702-3E12

■Issued Date: Sep. 26, 2019

# RF EXPOSURE REPORT

## **FOR**

Applicant		Fender Musical Instruments			
Address	•••	17600 North Perimeter Drive, Suite 100, Scottsdale, AZ85255 USA			
Equipment under Test	••	Portable Audio Amplifier System			
Model No. ONG D		PASSPORT VENUE SERIES 2			
Type No.	••	PR 846			
Trade Mark	••	FENDER			
FCC ID	••	XQWPV2PR846			
1C	•	8690A-PV2PR846			
Manufacturer	•	Fender Musical Instruments			
Address					

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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## **TEST REPORT DECLARE**

Applicant	:	Fender Musical Instruments			
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Equipment under Test	• •	Portable Audio Amplifier System			
Model No.	:	PASSPORT VENUE SERIES 2			
Trade mark	: FENDER				
Manufacturer	: Fender Musical Instruments				
Address	Address : 17600 North Perimeter Drive, Suite 100, Scottsdale, AZ852 USA				

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-R19090702-3E12		
Date of Receipt:	Sep. 26, 2019	Date of Test:	Sep. 26, 2019 ~ Oct. 12, 2019

Prepared By:

Ella Gong/Engineer

Ella Gong

Damon Hu/EMC Manager

Approved By

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	Oct. 14, 2019	

#### 1. General information

#### 1.1. Description of Equipment

EUT* Name	:	Portable Audio Amplifier System		
Model Number	:	PASSPORT VENUE SERIES 2		
EUT function description	:	Please reference user manual of this device		
Power supply	:	AC 100-120V, 50/60Hz or AC 220-240V, 50/60Hz		
Radio Specification	:	Bluetooth V5.0		
Operation frequency	:	2402MHz-2480MHz		
Modulation	:	GFSK, π/4-DQPSK, 8DPSK		
Data rate	:	1 Mbps, 2 Mbps, 3 Mbps		
Antenna Type	:	Integral PCB antenna, maximum PK gain: -1.15 dBi		
Maximum tune-up tolerance	:	1dB		
Sample Type	:	Series production		

#### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

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Guangdong Province, China, 523808

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## 2. RF Exposure evaluation

### 2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	17) Strength (E)   Strength (H)   1 over Den		Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; \*Plane-wave equivalent power density

#### 2.2. Calculation Method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density:  $S(mW/cm^2) = \frac{E^2}{377}$ 

**E** = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

#### 2.3. Estimation Result

Mode	PK Output power	Output power	Antenna Gain	Antenna Gain	MPE Values	MPE Limit
	(dBm)	(mW)	(dBi)	(linear)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
Bluetooth Max power	4.31	2.70	-1.15	0.77	0.00041	1
BLE Max power	-3.32	0.47	-1.15	0.77	0.000072	1

Note: The estimation distance is 20cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

#### **END OF REPORT**