



RF Exposure Evaluation Declaration

Report No.: S2025072297960103

Issue Date: 10-23-2025

Applicant: GUANGZHOU RANTION TECHNOLOGY CO., LTD.
Room 7002 and 7003, 7th Floor, Digital Entertainment
Address: Industrial Park, Greater Bay Area, No. 28 Huangpu Park
West Road, Huangpu District, Guangzhou, China.
FCC ID: 2AV7N-MKSERIES
Product: DIGITAL PIANO
DDP-200, DDP-200 MK2, DDP-200 MK3, DDP-200 MK4,
Model No.: DDP-200 MK5, DDP-200 MK6, DDP-200 MK7,
DODN3020, DODN6671, DODN6682, DODN6683,
DODN6684, DODN6685, DODN6686
Trade Mark: DONNER
FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation
exposure evaluation: mobile devices.
Item Receipt date: Sep. 09, 2025
Test Date: Sep. 16, ~ Oct. 10, 2025

Compiled By

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(Chuang Li)
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Approved By

Line Chen

(Line Chen)
Engineer Manager

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd.

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S2025072297960103	Rev. 01	/	10-23-2025

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	DIGITAL PIANO
Main Test Model:	DDP-200
Additional Model:	DDP-200 MK2, DDP-200 MK3, DDP-200 MK4, DDP-200 MK5, DDP-200 MK6, DDP-200 MK7, DODN3020, DODN6671, DODN6682, DODN6683, DODN6684, DODN6685, DODN6686
Model Description:	EUT (DIGITAL PIANO) the main model no. DDP-200 and its additional models no. DDP-200 MK3,DDP-200MK4,DDP-200 MK5,DDP-200 MK6,DDP-200MK7, DODN3020, DODN6671, DODN6682, DODN6683, DODN6684, DODN6685, DODN6686 have the same technical construction-including circuit-diagram, PCB-LAYOUT, material of the shell, hardware version and software version identical, the model names different, which does not affect electromagnetic compatibility and electricalsafety performance. They only differ in model names.
Trade Mark:	DONNER
Input Voltage Range:	DC 12V by adapter
Adapter Specifications:	Model: HCX3601-1203000U Input: AC 100~240V, 50/60Hz 1.2A Max; Output: DC 12V 3.0A 36.0W
Bluetooth Version:	5.2
Software Version:	V1.1
Hardware Version:	V1.1
Note:	This information is provided by the Customer and its authenticity is the responsibility of the Customer.

1.2. Product Specification Subjective to this Report

Frequency Range:	BT/BLE: 2402~2480MHz
Channel Number:	BT: 79 BLE: 40
Antenna Type:	PCB antenna
Antenna Gain:	4dBi
Type of Modulation:	BT: GFSK, $\pi/4$ DQPSK, 8DPSK BLE: GFSK
Data Rate:	BT: 1Mbps (GFSK), 2Mbps ($\pi/4$ DQPSK), 3Mbps (8DPSK) BLE: 1Mbps, 2Mbps
Note:	/

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

Calculation Formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2. Test Result of RF Exposure Evaluation

Product	DIGITAL PIANO
Test Item	RF Exposure Evaluation

Mode	Frequency (MHz)	Maximum Conducted OutputPower (dBm)	Antenna Gain (dBi)	PG		MPE (mW/cm ²)	MPE Limits (mW/cm ²)
				(dBm)	(mW)		
BT	2402~2480	5.58	4	9.58	9.08	0.0018	1.00
BLE	2402~2480	4.72	4	8.72	7.45	0.0014	1.00

Remark: 1. MPE use distance is 20cm from manufacturer declaration of user manual.

Remark: 2. Use the maximum gain of all bands when evaluating

CONCULISON:

The Max Power Density at R (20 cm) = 0.0018mW/cm² < 1mW/cm².

So the EUT complies with the requirement.

Statement

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