RF EXPOSURE REPORT

Applicant	:	JiangSu HuiTong Group Co.,Ltd
Address	:	No.24, Block 2, Taohuawu New District Zhenjiang Jiangsu P.R.C
Equipment under Test	:	Ninebot Engine Speaker
Model No.	:	PY0801
Trade Name	:	Ninebot
FCC ID	:	PUW-2K25-SF2219
IC	:	23608-91SF2219
Manufacturer	:	Ninebot (Changzhou) Tech Co., Ltd.
Address	:	16F-17F, Block A, Building 3, No.18, Changwu Mid Rd,Wujin Dist., Changzhou, Jiangsu, China.
Issued By	:	Suzhou Dongdian Testing Service Co., Ltd.
Address	:	Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Tel: +86-0512-62531270, E-mail: rui.zhang@dgddt.com, http://www.ddttest.com

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 Suzhou 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 Suzhou 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-B25011705-7E03		
Date of Receipt:	Mar. 25, 2025	**Date of Test:**	Apr. 24, 2025~ Jun. 10, 2025

Prepared By:	Reviewed By:	Authorized By:
Bacon Dong/Engineer	Leon Wu/Director	Chris Zhong/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Suzhou Dongdian Testing Service Co., Ltd..

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

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jul. 23, 2025	

1. General information

1.1. Description of Equipment

EUT* Name	:	Ninebot Engine Speaker
Model Number	:	PY0801
Test Model		PY0801
EUT function description	:	Please reference user manual of this device
Power supply	:	AC 100-240V 50/60Hz 0.15A
Radio Technology	:	BT, BLE
Operation frequency	:	2402MHz-2480MHz
Modulation	:	GFSK, Pi/4 DQPSK, 8DPSK
Transmitter rate	:	1 Mbps, 2 Mbps, 3 Mbps
Antenna Type	:	Ceramic Antenna , maximum PK gain: 2.78 dBi
Exposure category	:	General population/uncontrolled environment
Device Type	:	Mobile Device
Target power and tolerance	:	BLE: -4±1dBm, BT: 1±1.5dBm

1.2. Assess laboratory

Lab Information	Company Name: Suzhou Dongdian Testing Service Co., Ltd. Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Tel: +86-0512-62531270, E-mail: rui.zhang@dgddt.com, http://www.ddttest.com
Accreditation Certificate	A2LA (Certificate No.: 7346.01) Suzhou Dongdian Testing Service Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1397) Suzhou Dongdian Testing Service Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 32952; CAB No.:CN0182) Suzhou Dongdian Testing Service Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS. Note 3: The test anechoic chamber in Suzhou Dongdian Testing Service Co., Ltd had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.	

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 0.2 m 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)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$ 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

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

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:

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

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

2.3. Estimation result

Worst Mode	Max. Tune Up power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm^2)	MPE Limit (mW/cm^2)
BT	-3	0.501	2.78	1.897	0.000189	1
BLE	2.5	1.778	2.78	1.897	0.000671	1

Result: Pass

Note: The estimation distance is 20 cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT