



## RF Exposure Evaluation Declaration

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**FCC ID:** 2ALS8-KS0012  
**Applicant:** Ninebot (Changzhou) Tech Co., Ltd.  
**Product:** Ninebot KickScooter  
**Model No.:** F65U  
**Brand Name:** ninebot  
**FCC Classification:** Digital Transmission System (DTS)  
**FCC Rule Part(s)** FCC Part 2.1091  
**Test Procedure** KDB 447498 D04 Interim General RF Exposure  
Guidance v01

**Reviewed By:**

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**Approved By:**

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Robin Wu



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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### Revision History

Report No.	Version	Description	Issue Date	Note
2207RSU002-U2	Rev. 01	Initial Report	2022-08-03	Valid

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## 1. General Information

### 1.1. Applicant

Ninebot (Changzhou) Tech Co., Ltd.

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## 1.2. Manufacturer

Ninebot (Changzhou) Tech Co., Ltd.

16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, China

### 1.3. Testing Facility

[illegible]

#### 1.4. Product Information

Product	Ninebot KickScooter
Model No.	F65U
EUT Identification No.	20220708Sample#06
Bluetooth Version	V5.0
Operating Temperature	-10°C ~ 40°C
Rated Input	100–240 V~, 50–60 Hz, 2.0 A MAX
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

#### 1.5. Radio Specification

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	PCB Antenna
Antenna Gain	0.2 dBi

#### 1.6. Device Classification

According to the user manual, the antenna of this device is at least 20cm away from the body of the user, this device is classified as a **Mobile Device**. Therefore, the RF exposure evaluation requirements of FCC Part 2.1091 for mobile device exposure conditions subject to MPE limits.

## 2. RF Exposure Evaluation

### 2.1. Test Limits

According to FCC Part 2.1091, A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the RF source's radiating structure(s) and the body of the user or nearby persons.

According to FCC Part 1.1307(b)(3)(i)(C), for the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1.920 R^2$
1.34-30	$3.450 R^2/f^2$
30-300	$3.83 R^2$
300-1500	$0.0128 R^2f$
1500-100,000	$19.2 R^2$

f = frequency in MHz, R = minimum separation distance in meters.

According to FCC Part 1.1307(b)(3)(ii)(B), in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

## 2.2. Test Result

Product	Ninebot KickScooter
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band (MHz)	Max. Conducted Power (dBm)	Max. Antenna Gain (dBi)	EIRP (dBm)	ERP (W)	Compliance Distance (R) (m)	Threshold ERP (W)	Result
BLE	2402 ~ 2480	5.48	0.2	5.68	0.0023	0.2	0.768	Pass

Note:

1.  $EIRP \text{ (dBm)} = \text{Max. Conducted Power (dBm)} + \text{Max. Antenna Gain (dBi)}$
2.  $ERP \text{ (W)} = 10^{[ERP \text{ (dBm)} - 30]/10} = 10^{[EIRP \text{ (dBm)} - 2.15 \text{ (dB)} - 30]/10}$
3.  $\text{Threshold ERP (W)} = 19.2 * R^2 \text{ (W)} = 19.2 * 0.2^2 \text{ (W)} = 0.768 \text{ (W)}$

Therefore, this device meets the RF Exposure requirements when it is installed and operated with a minimum distance of 20cm between the radiator and user.