

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358

Web: www.mrt-cert.com

Report No.: 2207RSU002-U2 Report Version: V01 Issue Date: 2022-08-03

RF Exposure Evaluation Declaration

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

Approved By:

Reviewed By:

Vincent Yu

Robin Wu

Vincent Yu

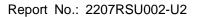
ACCREDITED

TESTING LABORATORY
CERTIFICATE #3628.01

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.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.





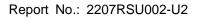
Revision History

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



CONTENTS

	cription		Page
1.	Gene	ral Information	4
	1.1.	Applicant	4
	1.2.	Manufacturer	4
	1.3.	Testing Facility	4
	1.4.	Product Information	5
	1.5.	Radio Specification	5
	1.6.	Device Classification	5
2.	RF E	xposure Evaluation	6
	2.1.	Test Limits	6
	2.2.	Test Result	7





1. General Information

1.1. Applicant

Ninebot (Changzhou) Tech Co., Ltd.

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

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

\boxtimes	Test Site - MRT S	Test Site – MRT Suzhou Laboratory							
	Laboratory Location (Suzhou - Wuzhong)								
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China								
	Laboratory Accre	editations							
	A2LA: 3628.01		CNAS	S: L10551					
	FCC: CN1166	ISED: CN0001							
	VCCI	□R-20025	□G-20034	□C-20020	□T-20020				
	VCCI:	□R-20141	□G-20134	□C-20103	□T-20104				
	Test Site – MRT Shenzhen Laboratory								
	Laboratory Loca	tion (Shenzhen)							
	1G, Building A, Ju	ınxiangda Building,	Zhongshanyuan Roa	d West, Nanshan Di	strict, Shenzhen, China				
	Laboratory Accreditations								
	A2LA: 3628.02	CNAS: L10551							
	FCC: CN1284	ISED: CN0105							
	Test Site - MRT	Taiwan Laboratory	1						
	Laboratory Loca	tion (Taiwan)							
	No. 38, Fuxing 2n	d Rd., Guishan Dis	st., Taoyuan City 333,	Taiwan (R.O.C.)					
	Laboratory Accre	editations							
	TAF: L3261-19072	25							
	FCC: 291082, TW	/3261	ISED:	TW3261					



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 λ 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 ² f				
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.

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



Report No.: 2207RSU002-U2

2.2. Test Result

Product	Ninebot KickScooter
Test Item	RF Exposure Evaluation

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

Note:

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