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Report No.: 2003RSU043-U1 Report Version: V01 Issue Date: 04-27-2020

MEASUREMENT REPORT

FCC PART 15C / RSS-247 BLE

FCC ID: 2ALS8-KS0004

IC: 22636-KS0004

Applicant: Ninebot (Changzhou) Tech Co., Ltd.

Application Type: Certification

Product: Ninebot KickScooter Max

Model No.: G30LP

Brand Name: Ninebot

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

ISED Rule(s): RSS-247 Issue 2, RSS-GEN Issue 5

Test Procedure(s): ANSI C63.10-2013

Test Date: March 23 ~ April 22, 2020

Reviewed By:

(Sunny Sun)

Approved By:

(Robin Wu)





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 ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date	Note
2003RSU043-U1	Rev. 01	Initial Report	04-27-2020	Valid



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General Information

Applicant:	Ninebot (Changzhou) Tech Co., Ltd.			
Applicant Address:	16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist.,			
	Changzhou, Jiangsu, China			
Manufacturer:	Ninebot (Changzhou) Tech Co., Ltd.			
Manufacturer Address:	16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist.,			
	Changzhou, Jiangsu, China			
Test Site:	MRT Technology (Suzhou) Co., Ltd			
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic			
	Development Zone, Suzhou, China			

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Designation No. CN1166) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.





1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The measurement facility compliant with the test site requirements specified in ANSI C63.4-2014.





2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	Ninebot KickScooter Max
Model No.:	G30LP
Bluetooth Version:	v4.1 (BLE Only)
Firmware Version:	V0.1.1.3
Serial Number:	N4GEA1601C0001
	Model No.: BCTA+71420-1700
Accessory:	Input Power: 100 - 240V ~ 50/60Hz, Max. 2.0A
	Output Power: 42VDC 1.7A

2.2. Product Specification Subjective to this Report

Frequency Range:	2402 ~ 2480 MHz
Bluetooth Version:	V4.1 (BLE Only)
Data Rate:	1Mbps(GFSK)
Antenna Type:	PCB Antenna
Antenna Gain:	-1.26dBi

2.3. Working Frequencies for this report

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				



2.4. Test Mode

Test Mode	Mode 1: Transmit by BLE

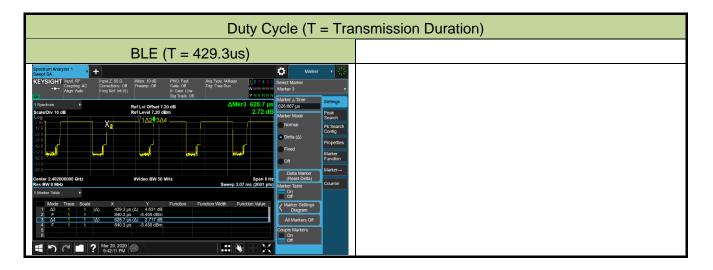
2.5. Description of Test Software

The test utility software used during testing was "nRFgo Studio", and the version was 1.12.1.1992.

2.6. Duty Cycle

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle		
BLE	68.28%		



2.7. Test Configuration

The unit was tested per the guidance of ANSI C63.10-2013, which is used as the reference of appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.



2.9. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

RSS-Gen Issue 5 Section 4

In addition to complying with the applicable RSSs and RSP-100, each unit of a product model (i.e. of a radio apparatus) shall meet the labelling requirements set out in this section prior to being marketed in Canada or imported into Canada.

For information regarding the labelling option, see Section 4.1, 4.2, 4.3 4.4. The label for the certified product represents the manufacturer's or importer's compliance with Innovation, Science and Economic Development Canada's (ISED) regulatory requirements.

Please see attachment for IC label and label location.



3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) was used in the measurement.

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. For floor-standing equipment, The EUT is typically installed on the ground plane. In order to prevent direct metallic contact of the EUT and the reference ground plane, insulating material (up to 12 mm thick) shall be placed under the EUT. Two 10kHz-30MHz, $50\Omega/50$ uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment which determined the worst-case emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.



3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst-case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, which produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.



4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of this device is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

This device complies with the requirement of §15.203.



5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2021/01/18
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2020/06/13
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2020/06/13
Thermohygrometer	Testo	608-H1	MRTSUE06404	1 year	2020/08/08
Shielding Room	MIX-BEP	Chamber-SR2	MRTSUE06215	N/A	N/A

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2020/08/01
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2020/09/03
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2020/11/13
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2021/04/03
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2020/10/13
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2020/12/17
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2020/11/15
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2020/06/11
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2020/08/08
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2020/04/30

Radiated Emission - AC2

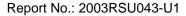
Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Keysight	N9038A	MRTSUE06125	1 year	2020/08/01
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2020/11/13
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2020/10/13
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2020/10/27
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2020/12/17
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2020/11/15
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2020/06/11
Temperature/Humidity Meter	Minggao	ETH529	MRTSUE06170	1 year	2020/12/15
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2020/04/30



Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2021/04/14
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2020/07/11
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2021/04/14
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2020/11/18
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2020/06/30
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2020/06/30
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2020/06/13
Audio Analyzer	Agilent	U8903B	MRTSUE06143	1 year	2020/06/13
Modulation Analyzer	HP	8901A	MRTSUE06098	1 year	2020/10/10
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2020/11/07
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2020/11/07
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2020/08/08

Software	Version	Function
EMI Software	V3	EMI Test Software





6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Conducted Emission Measurement - SR2

The maximum measurement uncertainty is evaluated as:

9kHz~150kHz: 3.84dB 150kHz~30MHz: 3.46dB

Radiated Emission Measurement - AC1

The maximum measurement uncertainty is evaluated as:

Horizontal: 30MHz~300MHz: 4.07dB

300MHz~1GHz: 3.63dB

1GHz~18GHz: 4.16dB

Vertical: 30MHz~300MHz: 4.18dB

300MHz~1GHz: 3.60dB 1GHz~18GHz: 4.76dB

Radiated Emission Measurement - AC2

The maximum measurement uncertainty is evaluated as:

Horizontal: 30MHz~300MHz: 3.75dB

300MHz~1GHz: 3.53dB 1GHz~18GHz: 4.28dB

Vertical: 30MHz~300MHz: 3.86dB

300MHz~1GHz: 3.53dB 1GHz~18GHz: 4.33dB



7. TEST RESULT

7.1. Summary

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	≥ 500kHz		Pass	Section
N/A	RSS-Gen [6.7]	99% Bandwidth	N/A		Pass	7.2
15.247(b)(3)	RSS-247 [5.4(d)]	Output Power	≤ 1Watt & EIRP ≤ 4Watt	Conducted	Pass	Section 7.3
15.247(e)	RSS-247 [5.2]	Power Spectral Density	≤ 8dBm / 3kHz		Pass	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	20dBc (Peak)		Pass	Section 7.5
15.205 15.209	RSS-247 [5.5]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6&7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.



7.2. Occupied Bandwidth Measurement

7.2.1.Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

7.2.2.Test Procedure used

ANSI C63.10-2013 - Section 11.8 (6dB bandwidth)

ANSI C63.10-2013 - Section 6.9.3 (99% bandwidth)

7.2.3.Test Setting

For 6dB bandwidth

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = Max hold
- 6. Sweep = Auto couple
- 7. Allow the trace was allowed to stabilize

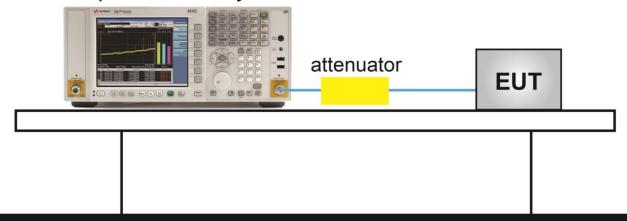
For 99% bandwidth

- 1. Span = 1.5 times to 5 times the OBW
- 2. Set RBW = 1% to 5% the OBW
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = Max hold
- 6. Sweep = Auto couple
- 7. Allow the trace was allowed to stabilize



7.2.4.Test Setup

Spectrum Analyzer





7.2.5.Test Result

Product	Ninebot KickScooter Max	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	SR2	Test Date	2020/03/29

Test Mode	Data Rate /	Channel	Frequency	6dB Bandwidth Limit		99% Bandwidth	Result
	MCS	No.	(MHz)	(kHz)	(MHz)	(MHz)	
BLE	1Mbps	00	2402	694.7	≥ 0.5	1.572	Pass
BLE	1Mbps	19	2440	708.8	≥ 0.5	1.369	Pass
BLE	1Mbps	39	2480	694.1	≥ 0.5	1.222	Pass





7.3. Output Power Measurement

7.3.1.Test Limit

The maximum conducted output power shall be exceeded 1 Watt (30dBm) and the E.I.R.P shall not exceed 4 Watt (36.02dBm).

7.3.2.Test Procedure Used

ANSI C63.10 - Section 11.9.1.3

ANSI C63.10 - Section 11.9.2.3.2

7.3.3.Test Setting

Method PKPM1 (Peak Power Measurement)

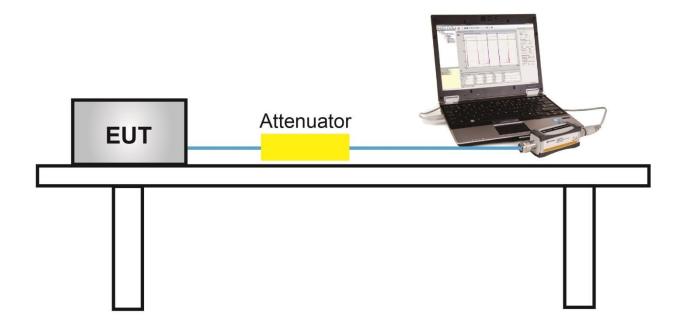
Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Measurement using a gated RF average-reading power meter)

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.



7.3.4.Test Setup





7.3.5.Test Result

Product	Ninebot KickScooter Max	Temperature	25°C	
Test Engineer	Dandy Li	Relative Humidity	56%	
Test Site	SR2	Test Date	2020/03/29	

Test Result of Peak Output Power

Test Mode	Data Rate	Channel	Frequency	Peak Power	Limit	E.I.R.P	E.I.R.P Limit	Result
	/ MCS	No.	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	
BLE	1Mbps	00	2402	1.16	≤ 30.00	-0.10	≤ 36.02	Pass
BLE	1Mbps	19	2440	0.93	≤ 30.00	-0.33	≤ 36.02	Pass
BLE	1Mbps	39	2480	0.39	≤ 30.00	-0.87	≤ 36.02	Pass

Note: E.I.R.P (dBm) = Peak Power (dBm) + Antenna Gain (dBi), Antenna Gain = -1.26 dBi.

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel	Frequency	Average	Limit	E.I.R.P	E.I.R.P Limit	Result
	/ MCS	No.	(MHz)	Power	(dBm)	(dBm)	(dBm)	
				(dBm)				
BLE	1Mbps	00	2402	-1.13	≤ 30.00	-2.39	≤ 36.02	Pass
BLE	1Mbps	19	2440	-1.88	≤ 30.00	-3.14	≤ 36.02	Pass
BLE	1Mbps	39	2480	-2.94	≤ 30.00	-4.20	≤ 36.02	Pass

Note: E.I.R.P (dBm) = Average Power (dBm) + Antenna Gain (dBi), Antenna Gain = -1.26 dBi.



7.4. Power Spectral Density Measurement

7.4.1.Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

7.4.2.Test Procedure Used

ANSI C63.10 Section 11.10.5

7.4.3.Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

7.4.4.Test Setup

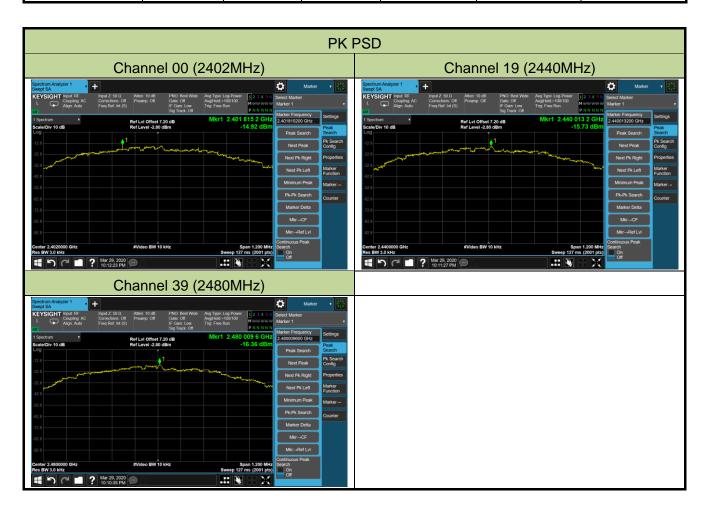
Spectrum Analyzer attenuator EUT



7.4.5.Test Result

Product	Ninebot KickScooter Max	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	SR2	Test Date	2020/03/29

Test Mode	Data	Channel	Frequency	PK PSD	Limit	Result
	Rate / MCS	No.	(MHz)	(dBm / 3kHz)	(dBm / 3kHz)	
BLE	1Mbps	00	2402	-14.92	≤ 8.00	Pass
BLE	1Mbps	19	2440	-15.73	≤ 8.00	Pass
BLE	1Mbps	39	2480	-16.36	≤ 8.00	Pass





7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1.Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2.Test Procedure Used

ANSI C63.10 - Section 11.11

7.5.3.Test Settitng

Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize

Emission level measurement

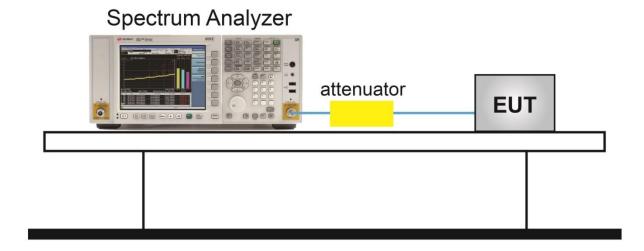
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize



Test Notes

- RBW was set to 1.3MHz rather than 100 kHz in order to increase the measurement speed;
 meanwhile, the VBW was set to 4MHz instead of 300 kHz.
- 2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100 kHz bandwidth. However, since the traces in the following plots are measured with a 1.3 MHz RBW, the display line may not necessarily appear to be 20 dB below the level of the fundamental measured in a 1.3 MHz bandwidth.
- For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

7.5.4.Test Setup

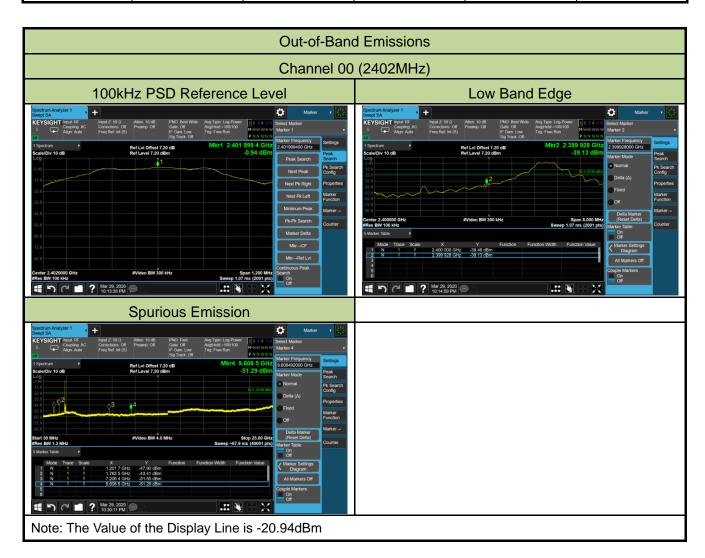




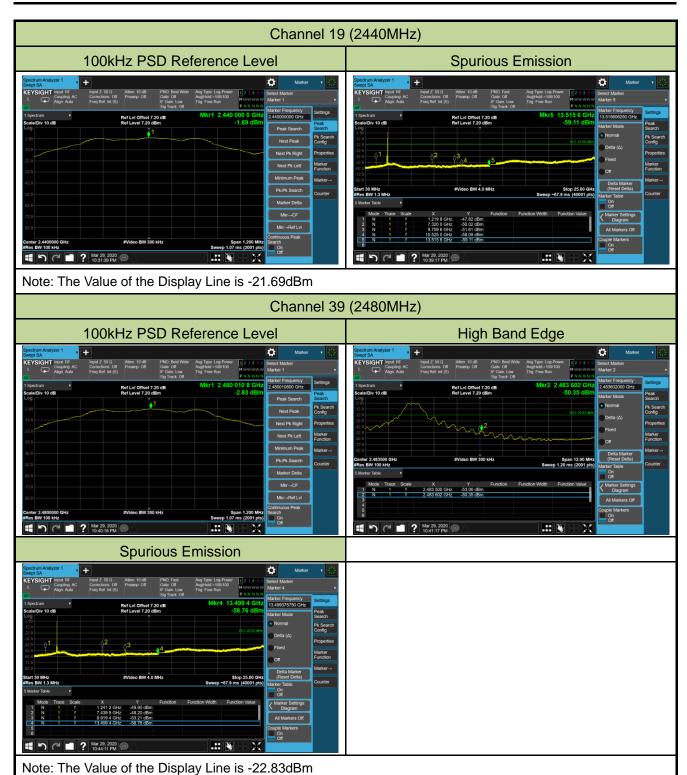
7.5.5.Test Result

Product	Ninebot KickScooter Max	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	SR2	Test Date	2020/03/29

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit	Result
BLE	1Mbps	00	2402	20dBc	Pass
BLE	1Mbps	19	2440	20dBc	Pass
BLE	1Mbps	39	2480	20dBc	Pass









7.6. Radiated Spurious Emission Measurement

7.6.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FC	C Part 15 Subpart C Paragraph 1	5.209
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

	RSS-Ge	n Section 8.9	
Frequency	Field Strength	Magnetic Field Strength	Measured Distance
(MHz)	(μV/m)	(H-Field) (μΑ/m)	(m)
0.009 - 0.490		6.37/F (F in kHz)	300
0.490 - 1.705		6.37/F (F in kHz)	30
1.705 - 30	1.705 - 30		30
30 - 88	100		3
88 - 216	150		3
216 - 960	200		3
Above 960	500		3



7.6.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.6.3.Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW		
9 ~ 150 kHz	200 ~ 300 Hz		
0.15 ~ 30 MHz	9 ~ 10 kHz		
30 ~ 1000 MHz	100 ~ 120 kHz		
Above 1000 MHz	1 MHz		

Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as specified in Table 1
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

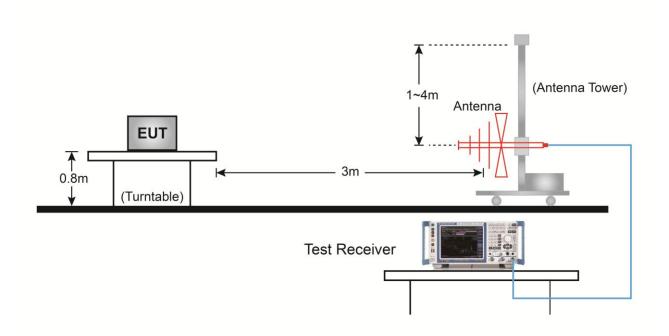


Average Measurements above 1GHz (Method VB)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW; If the EUT is configured to transmit with duty cycle \geq 98%, set VBW = 10 Hz. If the EUT duty cycle is < 98%, set VBW \geq 1/T. T is the minimum transmission duration.
- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

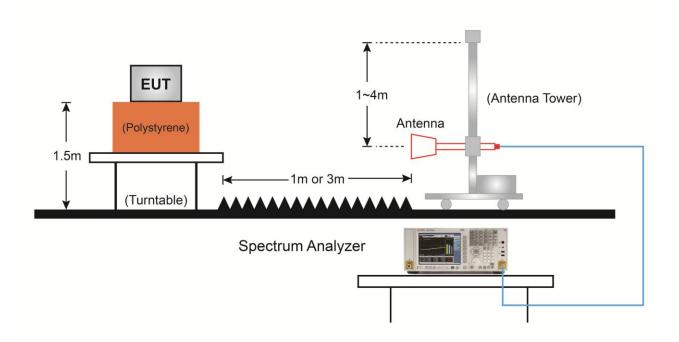
7.6.4.Test Setup

Below 1GHz Test Setup:





Above 1GHz Test Setup:





7.6.5.Test Result

Product	Ninebot KickScooter Max	Temperature	25°C			
Test Engineer	Dandy Li	Relative Humidity	54%			
Test Site	AC1	Test Date	2020/03/23			
Test Mode	BLE	Test Channel	00			
Remark	Average measurement was not performed if peak level lower than average					
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4264.0	37.7	4.0	41.7	74.0	-32.3	Peak	Horizontal
	4808.0	43.3	5.8	49.1	74.0	-24.9	Peak	Horizontal
*	6142.5	36.6	8.1	44.7	74.0	-29.3	Peak	Horizontal
*	7205.0	41.6	11.5	53.1	74.0	-20.9	Peak	Horizontal
	4153.5	36.9	3.6	40.5	74.0	-33.5	Peak	Vertical
	4808.0	41.5	5.8	47.3	74.0	-26.7	Peak	Vertical
*	6006.5	35.8	7.9	43.7	74.0	-30.3	Peak	Vertical
*	7205.0	37.4	11.5	48.9	74.0	-25.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (83.1dB μ V/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Product	Ninebot KickScooter Max	Temperature	25°C				
Test Engineer	Dandy Li	Relative Humidity	54%				
Test Site	AC1	Test Date	2020/03/23				
Test Mode	BLE	Test Channel	19				
Remark	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4884.5	42.1	5.9	48.0	74.0	-26.0	Peak	Horizontal
*	5947.0	36.7	7.7	44.4	74.0	-29.6	Peak	Horizontal
	7324.0	38.3	11.5	49.8	74.0	-24.2	Peak	Horizontal
*	8803.0	35.1	14.2	49.3	74.0	-24.7	Peak	Horizontal
	3864.5	38.6	2.9	41.5	74.0	-32.5	Peak	Vertical
	4876.0	39.0	5.9	44.9	74.0	-29.1	Peak	Vertical
*	6015.0	36.1	7.9	44.0	74.0	-30.0	Peak	Vertical
*	6669.5	35.7	9.7	45.4	74.0	-28.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.2dB μ V/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Product	Ninebot KickScooter Max	Temperature	25°C				
Test Engineer	Dandy Li	Relative Humidity	54%				
Test Site	AC1	Test Date	2020/03/23				
Test Mode	BLE	Test Channel	39				
Remark	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4145.0	36.7	3.5	40.2	74.0	-33.8	Peak	Horizontal
	4961.0	41.6	6.2	47.8	74.0	-26.2	Peak	Horizontal
*	6049.0	34.8	7.7	42.5	74.0	-31.5	Peak	Horizontal
*	6933.0	35.7	10.3	46.0	74.0	-28.0	Peak	Horizontal
	3847.5	38.7	2.8	41.5	74.0	-32.5	Peak	Vertical
	4961.0	39.8	6.2	46.0	74.0	-28.0	Peak	Vertical
*	5964.0	35.9	7.6	43.5	74.0	-30.5	Peak	Vertical
*	7018.0	35.0	11.0	46.0	74.0	-28.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (87.7dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

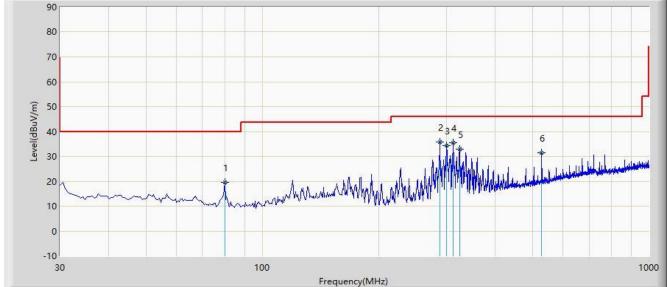
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2020/03/25				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: AC1_VULB 9168 _20-2000MHz	Polarity: Horizontal				
EUT: Ninebot KickScooter Max	Power: By Battery				
Test Market Transport L. DUF at Observat 40 (0440MIL.)					

Test Mode: Transmit by BLE at Channel 19 (2440MHz)



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			79.955	19.434	10.072	-20.566	40.000	9.362	QP
2		*	288.020	35.921	23.383	-10.079	46.000	12.538	QP
3			299.660	34.444	21.651	-11.556	46.000	12.793	QP
4			311.785	35.491	22.394	-10.509	46.000	13.097	QP
5			323.910	32.796	19.394	-13.204	46.000	13.402	QP
6			528.095	31.525	14.512	-14.475	46.000	17.013	QP

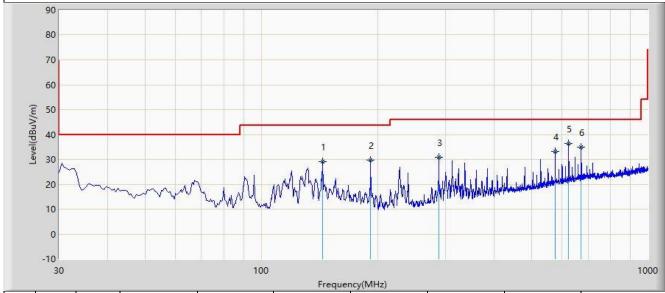
Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.



Site: AC1	Time: 2020/03/25		
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li		
Probe: AC1_VULB 9168 _20-2000MHz	Polarity: Vertical		
EUT: Ninebot KickScooter Max	Power: By Battery		
Test Mode: Transmit by BLE at Channel 19 (2440MHz)			



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			143.975	29.242	15.474	-14.258	43.500	13.768	QP
2			191.990	29.852	19.496	-13.648	43.500	10.356	QP
3			288.020	30.967	18.429	-15.033	46.000	12.538	QP
4			576.110	33.215	15.382	-12.785	46.000	17.833	QP
5		*	624.125	36.352	17.569	-9.648	46.000	18.783	QP
6			672.140	34.847	15.481	-11.153	46.000	19.366	QP

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from $9kHz \sim 30MHz$ and $18GHz \sim 25GHz$) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.



7.7. Radiated Restricted Band Edge Measurement

7.7.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency	Frequency	Frequency	Frequency
(MHz)	(MHz)	(MHz)	(GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			



All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209						
Frequency	Field Strength	Measured Distance				
[MHz]	[uV/m]	[Meters]				
0.009 - 0.490	2400/F (kHz)	300				
0.490 - 1.705	24000/F (kHz)	30				
1.705 - 30	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				



For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency	Frequency	Frequency
(MHz)	(MHz)	(GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 -1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 -2390	
12.51975 - 12.52025	2483.5 -2500	
12.57675 - 12.57725	2655 - 2900	
13.36 -13.41	3260 - 3267	
16.42 - 16.423	3332 -3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 8500	
108 - 138	8025 - 8500	



All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

	RSS-Ge	n Section 8.9	
Frequency (MHz)	Field Strength Magnetic Field Stre (µV/m) (H-Field) (µA/m)		Measured Distance (m)
0.009 - 0.490		6.37/F (F in kHz)	300
0.490 - 1.705		6.37/F (F in kHz)	30
1.705 - 30		0.08	30
30 - 88	100	1	3
88 - 216	150	-	3
216 - 960	200		3
Above 960	500		3

7.7.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3.Test Setting

Peak Field Strength Measurements

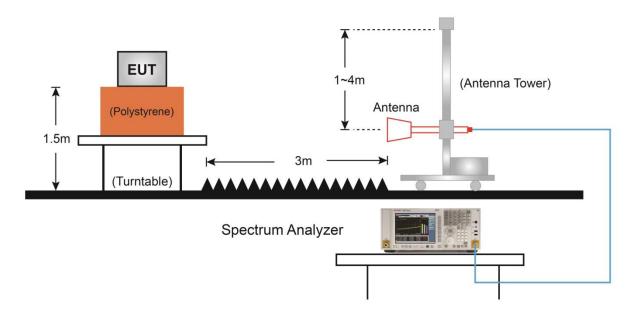
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.7.4.Test Setup

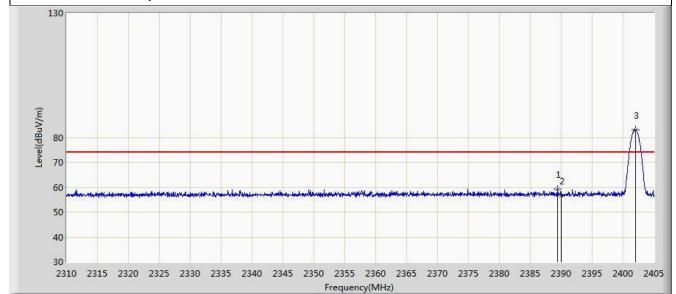




7.7.5.Test Result

Site: AC1	Time: 2020/03/23 - 23:55			
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Ninebot KickScooter Max	Power: By Battery			
Toot Mode: Transmit by PLE at abannal 2402MHz				

Test Mode: Transmit by BLE at channel 2402MHz

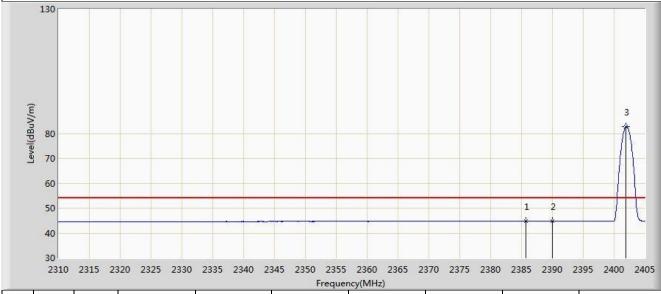


No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2389.420	59.356	27.284	-14.644	74.000	32.072	PK
2			2390.000	56.591	24.519	-17.409	74.000	32.072	PK
3		*	2402.000	83.094	51.019	N/A	N/A	32.076	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Ninebot KickScooter Max	Power: By Battery
Test Mode: Transmit by BLF at channel 2402MHz	

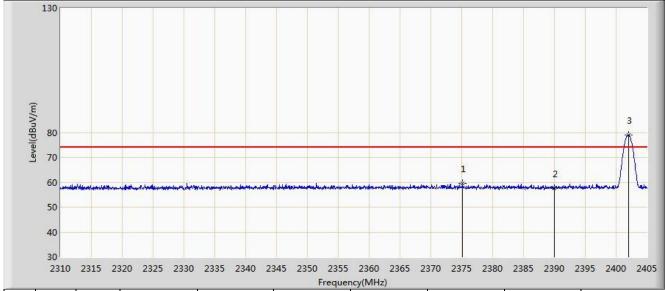


No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2385.762	44.783	12.710	-9.217	54.000	32.073	AV
2			2390.000	44.740	12.668	-9.260	54.000	32.072	AV
3		*	2401.913	82.644	50.569	N/A	N/A	32.075	AV

Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Ninebot KickScooter Max	Power: By Battery
Test Mode: Transmit by BLE at channel 2402MHz	



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2375.123	59.704	27.623	-14.296	74.000	32.081	PK
2			2390.000	57.463	25.391	-16.537	74.000	32.072	PK
3		*	2402.008	78.946	46.871	N/A	N/A	32.076	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:11			
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Ninebot KickScooter Max	Power: By Battery			
Test Mode: Transmit by BLE at channel 2402MHz				

130

2

70

60

50

40

30

2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405

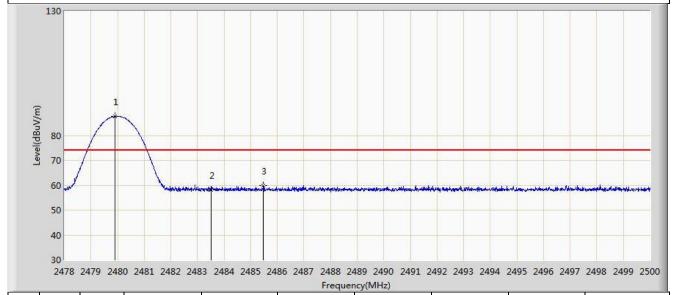
Frequency(MHz)

No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	44.746	12.674	-9.254	54.000	32.072	AV
2		*	2402.008	77.361	45.286	N/A	N/A	32.076	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Ninebot KickScooter Max	Power: By Battery
Test Mode: Transmit by BLE at channel 2480MHz	



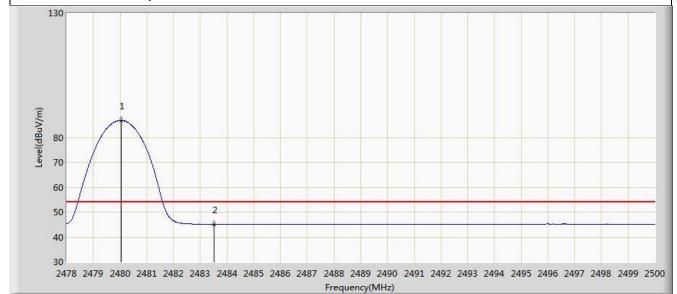
No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.914	87.666	55.622	N/A	N/A	32.044	PK
2			2483.500	58.038	26.001	-15.962	74.000	32.037	PK
3			2485.469	59.749	27.716	-14.251	74.000	32.033	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Ninebot KickScooter Max	Power: By Battery

Test Mode: Transmit by BLE at channel 2480MHz

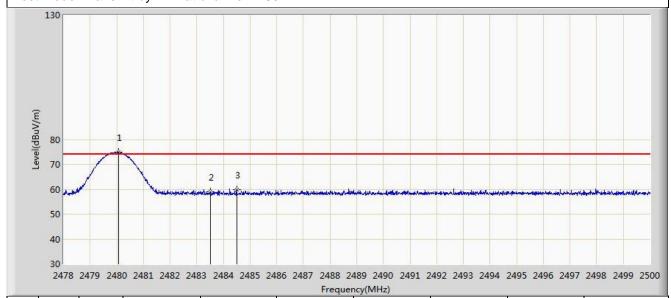


No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.046	86.845	54.802	N/A	N/A	32.044	AV
2			2483.500	45.154	13.117	-8.846	54.000	32.037	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:17			
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Ninebot KickScooter Max	Power: By Battery			
Test Mode: Transmit by RLF at channel 2480MHz				



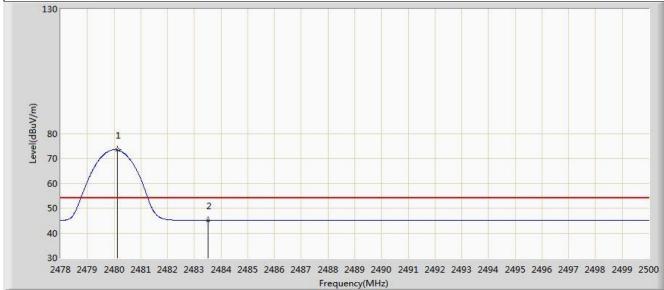
No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.057	74.944	42.901	N/A	N/A	32.044	PK
2			2483.500	58.933	26.896	-15.067	74.000	32.037	PK
3			2484.501	59.997	27.962	-14.003	74.000	32.035	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2020/03/24 - 00:21				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Ninebot KickScooter Max	Power: By Battery				

Test Mode: Transmit by BLE at channel 2480MHz



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.112	73.359	41.316	N/A	N/A	32.043	AV
2			2483.500	45.093	13.056	-8.907	54.000	32.037	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



7.8. AC Conducted Emissions Measurement

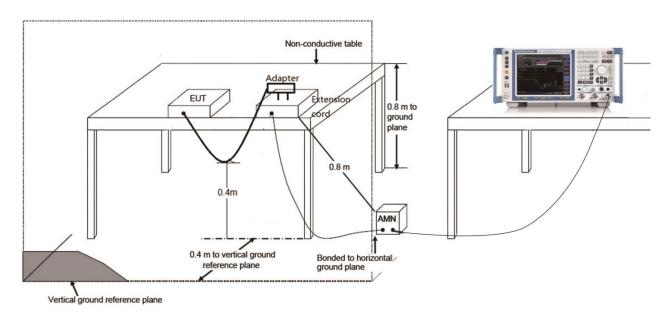
7.8.1.Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits							
Frequency (MHz)	QP (dBuV)	AV (dBuV)					
0.15 - 0.50	66 - 56	56 - 46					
0.50 - 5.0	56	46					
5.0 - 30	60	50					

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2.Test Setup

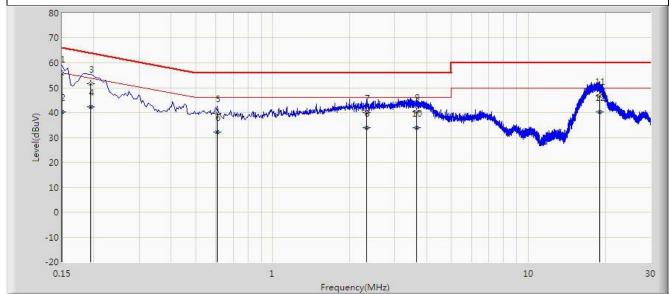




7.8.3.Test Result

Site: SR2	Time: 2020/04/22 - 17:49
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bacon Dong
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Ninebot KickScooter Max	Power: AC 120V/60Hz

Test Mode 1



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.150	55.694	46.051	-10.306	66.000	9.643	QP
2			0.150	40.182	30.539	-15.818	56.000	9.643	AV
3			0.194	51.701	42.041	-12.163	63.864	9.659	QP
4			0.194	42.434	32.774	-11.430	53.864	9.659	AV
5			0.606	39.572	29.814	-16.428	56.000	9.758	QP
6			0.606	32.125	22.367	-13.875	46.000	9.758	AV
7			2.334	39.929	30.087	-16.071	56.000	9.842	QP
8			2.334	33.839	23.997	-12.161	46.000	9.842	AV
9			3.642	40.237	30.259	-15.763	56.000	9.978	QP
10			3.642	33.929	23.950	-12.071	46.000	9.978	AV
11			18.966	46.604	36.289	-13.396	60.000	10.316	QP
12		*	18.966	40.160	29.844	-9.840	50.000	10.316	AV

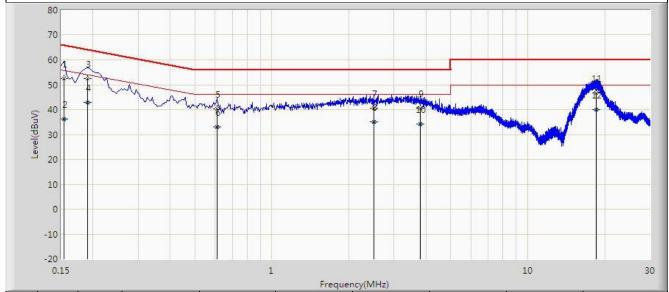
Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



Site: SR2	Time: 2020/04/22 - 17:53
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bacon Dong
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Ninebot KickScooter Max	Power: AC 120V/60Hz

Test Mode 1



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.154	52.406	42.801	-13.376	65.781	9.605	QP
2			0.154	36.355	26.750	-19.426	55.781	9.605	AV
3			0.190	52.582	42.963	-11.455	64.037	9.619	QP
4			0.190	42.794	33.175	-11.242	54.037	9.619	AV
5			0.610	40.251	30.575	-15.749	56.000	9.676	QP
6			0.610	33.131	23.456	-12.869	46.000	9.676	AV
7			2.502	40.696	30.905	-15.304	56.000	9.791	QP
8			2.502	34.993	25.202	-11.007	46.000	9.791	AV
9			3.810	40.621	30.665	-15.379	56.000	9.956	QP
10			3.810	34.258	24.302	-11.742	46.000	9.956	AV
11			18.538	46.651	36.375	-13.349	60.000	10.276	QP
12		*	18.538	40.031	29.754	-9.969	50.000	10.276	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



8. CONCLUSION

The data collected relate only the item(s)) tested and show that th	e unit is compliance	with Part 1	5C
of the FCC rules and ISED rules.				

The End —



Appendix A - Test Setup Photograph

Refer to "2003RSU043-UT" file.



Appendix B - EUT Photograph

Refer to "2003RSU043-UE" file.