

# MEASUREMENT REPORT

## FCC PART 15C / RSS-247 BLE

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**FCC ID:** 2ALS8-KS0001  
**IC:** 22636-KS0001  
**APPLICANT:** Ninebot (Changzhou) Tech Co., Ltd.  
**Application Type:** Certification  
**Product:** Ninebot KickScooter  
**Model No.:** E45  
**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:** January 06 ~ April 14, 2020

Reviewed By:



( Paddy Chen )

Approved By:



(Chenz Ker)



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.

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

## Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2004TW0005-U1 | Rev. 01 | Initial Report | 04-23-2020 | Valid |
|               |         |                |            |       |

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## General Information

|                              |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| <b>Applicant:</b>            | Ninebot (Changzhou) Tech Co., Ltd.                                                         |
| <b>Applicant Address:</b>    | 16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, China |
| <b>Manufacturer:</b>         | Ninebot (Changzhou) Tech Co., Ltd.                                                         |
| <b>Manufacturer Address:</b> | 16F-17F, Block A, Building 3, Changwu Mid Road 18#, Wujin Dist., Changzhou, Jiangsu, China |
| <b>Test Site:</b>            | MRT Technology (Taiwan) Co., Ltd                                                           |
| <b>Test Site Address:</b>    | No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)                 |

## Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Fuxing Rd., Taoyuan, Taiwan ( R.O.C )

- MRT facility is a FCC registered (Designation No. TW3261) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
- MRT facility is an IC registered (MRT Reg. No. 21723-1) test laboratory with the site description on file at Industry Canada.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (TAF) under the American Association for Laboratory Accreditation Program (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Taiwan, EU and TELEC Rules.



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                    |                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------|
| Product Name:      | Ninebot KickScooter                                                                                    |
| Model No.:         | E45                                                                                                    |
| Bluetooth Version: | v4.1 (BLE Only)                                                                                        |
| Firmware Version:  | v0.2.0.4                                                                                               |
| Serial Number:     | N2GDA1501C0001                                                                                         |
| Accessory:         | Model No.: BCTA+71420-1700<br>Input Power: 100 - 240V ~ 50/60Hz, Max. 2.0A<br>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. Power parameter values refer to operation description.

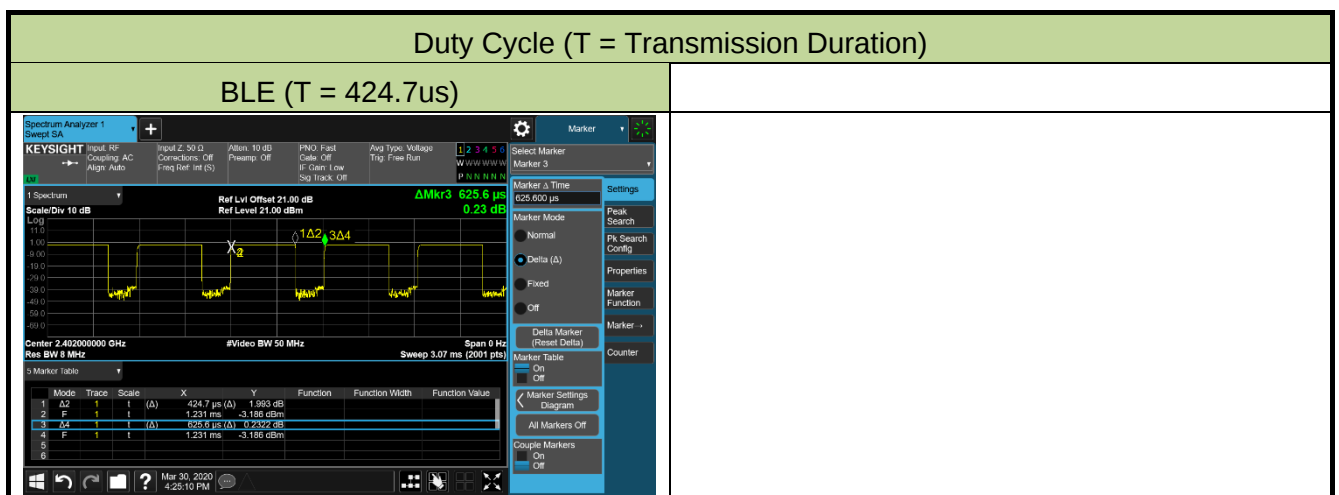
## 2.6. Device Capabilities

This device contains the following capabilities:

BLE Devices

**Note:** 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       | 67.89%     |



## 2.7. EMI Suppression Device(s)/Modifications

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

## **2.8. 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, 50Ω/50uH 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 |
|----------------------------|--------------|-------------------------|-------------|----------------|----------------|
| Two-Line V-Network         | R&S          | ENV216                  | MRTTWA00019 | 1 year         | 2021/3/26      |
| Two-Line V-Network         | R&S          | ENV216                  | MRTTWA00020 | 1 year         | 2020/4/25      |
| 8-Wire ISN (T8-Cat6)       | R&S          | ENY81 CA6               | MRTTWA00017 | 1 year         | 2020/4/23      |
| 8-Wire ISN (T8)            | R&S          | ENY81                   | MRTTWA00018 | 1 year         | 2020/4/23      |
| EMI Test Receiver          | R&S          | ESR3                    | MRTTWA00045 | 1 year         | 2020/5/29      |
| Conducted Cable            | Rosnol       | N1C50-RG400-B1C50-500CM | MRTTWE00013 | 1 year         | 2020/6/18      |
| Temperature/Humidity Meter | TFA          | 35.1078.10.IT           | MRTTWA00033 | 1 year         | 2020/5/30      |

### Radiated Emissions - AC1

| Instrument                 | Manufacturer | Type No.                  | Asset No.   | Cali. Interval | Cali. Due Date |
|----------------------------|--------------|---------------------------|-------------|----------------|----------------|
| Active Loop Antenna        | SCHWARZBECK  | FMZB 1519B                | MRTTWA00002 | 1 year         | 2020/4/29      |
| Broadband TRILOG Antenna   | SCHWARZBECK  | VULB 9162                 | MRTTWA00001 | 1 year         | 2020/6/4       |
| Broadband Hornantenna      | SCHWARZBECK  | BBHA 9120D                | MRTTWA00003 | 1 year         | 2020/4/22      |
| Breitband Hornantenna      | SCHWARZBECK  | BBHA 9170                 | MRTTWA00004 | 1 year         | 2020/4/23      |
| Broadband Preamplifier     | SCHWARZBECK  | BBV 9718                  | MRTTWA00005 | 1 year         | 2020/4/24      |
| Broadband Amplifier        | SCHWARZBECK  | BBV 9721                  | MRTTWA00006 | 1 year         | 2020/4/24      |
| Signal Analyzer            | R&S          | FSV40                     | MRTTWA00007 | 1 year         | 2021/3/24      |
| EMI Test Receiver          | R&S          | ESR3                      | MRTTWA00009 | 1 year         | 2021/3/25      |
| EXA Signal Analyzer        | KEYSIGHT     | N9010A                    | MRTTWA00012 | 1 year         | 2020/10/2      |
| EXA Signal Analyzer        | KEYSIGHT     | N9010B                    | MRTTWA00074 | 1 year         | 2020/7/11      |
| Antenna Cable              | HUBERSUHNER  | SF106                     | MRTTWE00010 | 1 year         | 2020/4/22      |
| Temperature/Humidity Meter | TFA          | 35.1078.10.IT             | MRTTWA00032 | 1 year         | 2020/5/30      |
| Cable                      | Rosnol       | K1K50-UP02<br>64-K1K50-4M | MRTTWE00012 | 1 year         | 2020/6/18      |

## Conducted Test Equipment

| Instrument                                 | Manufacturer | Type No.      | Asset No.   | Cali. Interval | Cali. Due Date |
|--------------------------------------------|--------------|---------------|-------------|----------------|----------------|
| X-Series USB Peak and Average Power Sensor | KEYSIGHT     | U2021XA       | MRTTWA00014 | 1 year         | 2020/4/22      |
| X-Series USB Peak and Average Power Sensor | KEYSIGHT     | U2021XA       | MRTTWA00015 | 1 year         | 2021/3/26      |
| Wideband Radio Communication Taster        | R&S          | CMW 500       | MRTTWA00041 | 1 year         | 2021/1/7       |
| EXA Signal Analyzer                        | KEYSIGHT     | N9010A        | MRTTWA00012 | 1 year         | 2020/10/2      |
| EXA Signal Analyzer                        | KEYSIGHT     | N9010B        | MRTTWA00074 | 1 year         | 2020/7/11      |
| Signal Analyzer                            | R&S          | FSV40         | MRTTWA00007 | 1 year         | 2021/3/24      |
| Temperature & Humidity Chamber             | TEN BILLION  | TTH-B3UP      | MRTTWA00036 | 1 year         | 2020/6/10      |
| Temperature/Humidity Meter                 | TFA          | 35.1078.10.IT | MRTTWA00033 | 1 year         | 2020/5/30      |

| Software | Version   | Function          |
|----------|-----------|-------------------|
| e3       | 9.160520a | EMI Test Software |
| EMI      | V 3       | 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- Power Line                                                            |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 2.53dB             |
| Conducted Emission- Impedance Stabilization Network Measurement                           |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 3.96dB             |
| Radiated Spurious Emission                                                                |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 3.92dB (Below 30M) |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 4.25dB (30M~1G)    |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 4.40dB (1G~18G)    |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 4.45dB (18G~40G)   |
| Frequency Error                                                                           |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 78.4Hz             |
| Conducted Power                                                                           |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 0.84dB             |
| Conducted Spurious Emission                                                               |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 2.65 dB            |
| Occupied Bandwidth                                                                        |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 3.3%               |
| Temp. / Humidity                                                                          |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 0.82°C/ 3%         |
| DC Voltage                                                                                |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 0.3%               |

## 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                                                                 | $\geq 500\text{kHz}$                                                           | Conducted      | Pass        | Section 7.2     |
| N/A                 | RSS-Gen [6.7]    | 99% Bandwidth                                                                 | N/A                                                                            |                | Pass        |                 |
| 15.247(b)(3)        | RSS-247 [5.4(d)] | Output Power                                                                  | $\leq 1\text{Watt}$ & $\text{EIRP} \leq 4\text{Watt}$                          |                | Pass        | Section 7.3     |
| 15.247(e)           | RSS-247 [5.2]    | Power Spectral Density                                                        | $\leq 8\text{dBm} / 3\text{kHz}$                                               |                | 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<br>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**

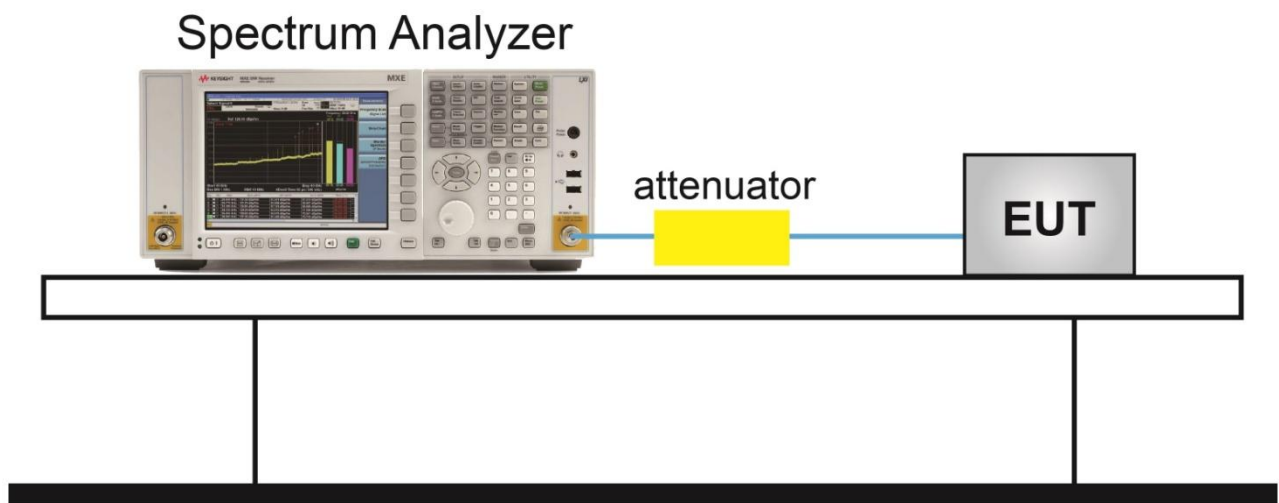
#### **For 6dB bandwidth**

1. 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.  $VBW \geq 3 \times RBW$
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.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace was allowed to stabilize

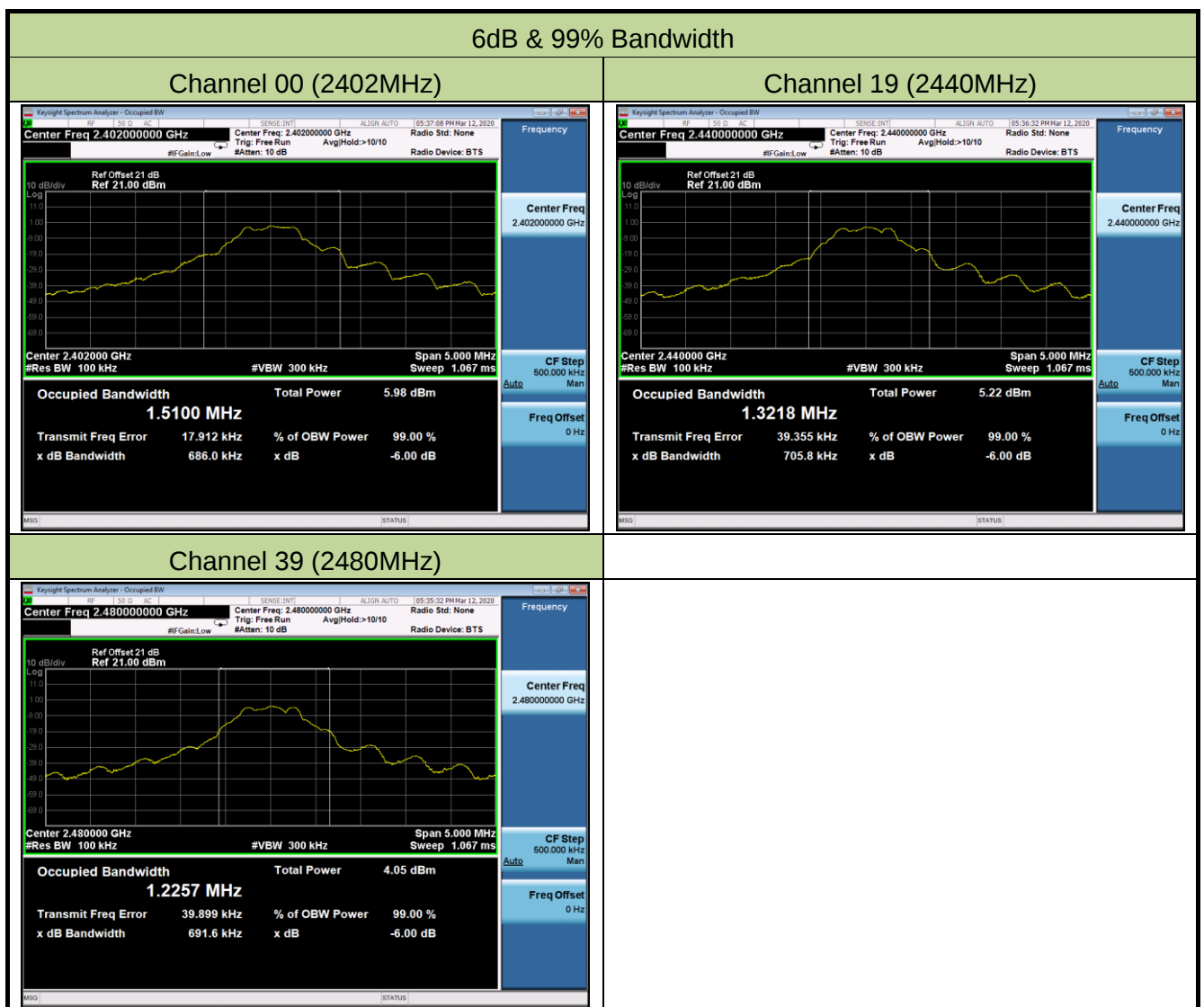
#### 7.2.4. Test Setup



## 7.2.5. Test Result

|               |                     |                   |            |
|---------------|---------------------|-------------------|------------|
| Product       | Ninebot KickScooter | Temperature       | 25°C       |
| Test Engineer | Peter Syu           | Relative Humidity | 56%        |
| Test Site     | SR2                 | Test Date         | 2020/03/12 |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | 6dB Bandwidth (kHz) | Limit (MHz) | 99% Bandwidth (MHz) | Result |
|-----------|-----------------|-------------|-----------------|---------------------|-------------|---------------------|--------|
| BLE       | 1Mbps           | 00          | 2402            | 686.0               | ≥ 0.5       | 1.510               | Pass   |
| BLE       | 1Mbps           | 19          | 2440            | 705.8               | ≥ 0.5       | 1.322               | Pass   |
| BLE       | 1Mbps           | 39          | 2480            | 691.6               | ≥ 0.5       | 1.226               | 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**

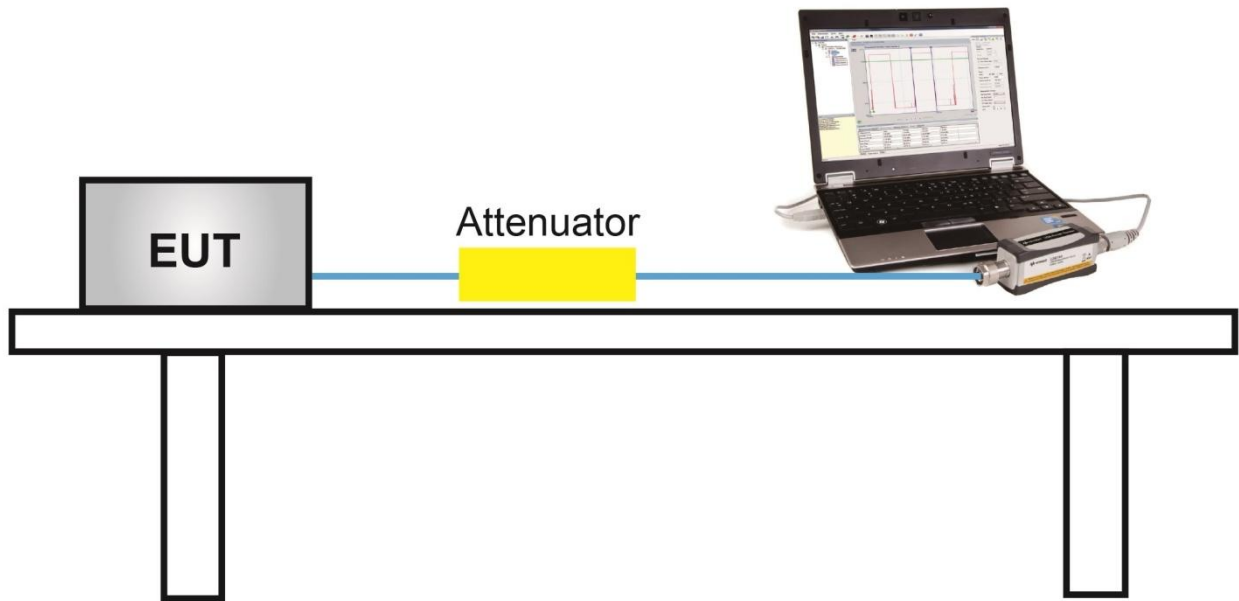
##### **Method PKPM1 (Peak Power Measurement)**

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 | Temperature       | 25°C       |
| Test Engineer | Peter Syu           | Relative Humidity | 56%        |
| Test Site     | SR2                 | Test Date         | 2020/03/11 |

### Test Result of Peak Output Power

| Test Mode | Data Rate<br>/ MCS | Channel<br>No. | Frequency<br>(MHz) | Peak Power<br>(dBm) | Limit<br>(dBm) | E.I.R.P<br>(dBm) | E.I.R.P Limit<br>(dBm) | Result |
|-----------|--------------------|----------------|--------------------|---------------------|----------------|------------------|------------------------|--------|
| BLE       | 1Mbps              | 00             | 2402               | 1.03                | ≤ 30.00        | -0.23            | ≤ 36.02                | Pass   |
| BLE       | 1Mbps              | 19             | 2440               | 0.77                | ≤ 30.00        | -0.49            | ≤ 36.02                | Pass   |
| BLE       | 1Mbps              | 39             | 2480               | 0.28                | ≤ 30.00        | -0.98            | ≤ 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<br>/ MCS | Channel<br>No. | Frequency<br>(MHz) | Average<br>Power<br>(dBm) | Limit<br>(dBm) | E.I.R.P<br>(dBm) | E.I.R.P Limit<br>(dBm) | Result |
|-----------|--------------------|----------------|--------------------|---------------------------|----------------|------------------|------------------------|--------|
| BLE       | 1Mbps              | 00             | 2402               | -1.29                     | ≤ 30.00        | -2.55            | ≤ 36.02                | Pass   |
| BLE       | 1Mbps              | 19             | 2440               | -2.08                     | ≤ 30.00        | -3.34            | ≤ 36.02                | Pass   |
| BLE       | 1Mbps              | 39             | 2480               | -3.21                     | ≤ 30.00        | -4.47            | ≤ 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.

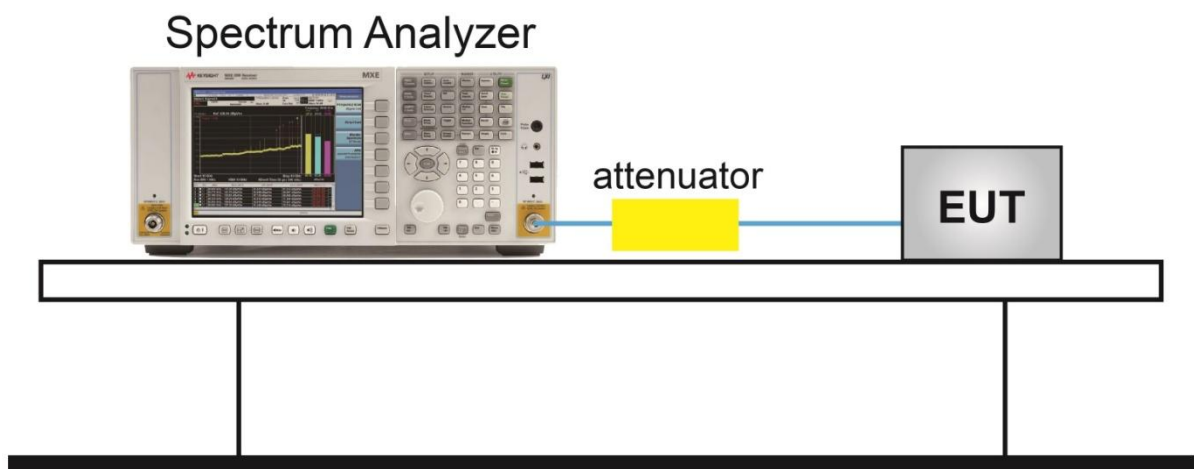
### 7.4.2. Test Procedure Used

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

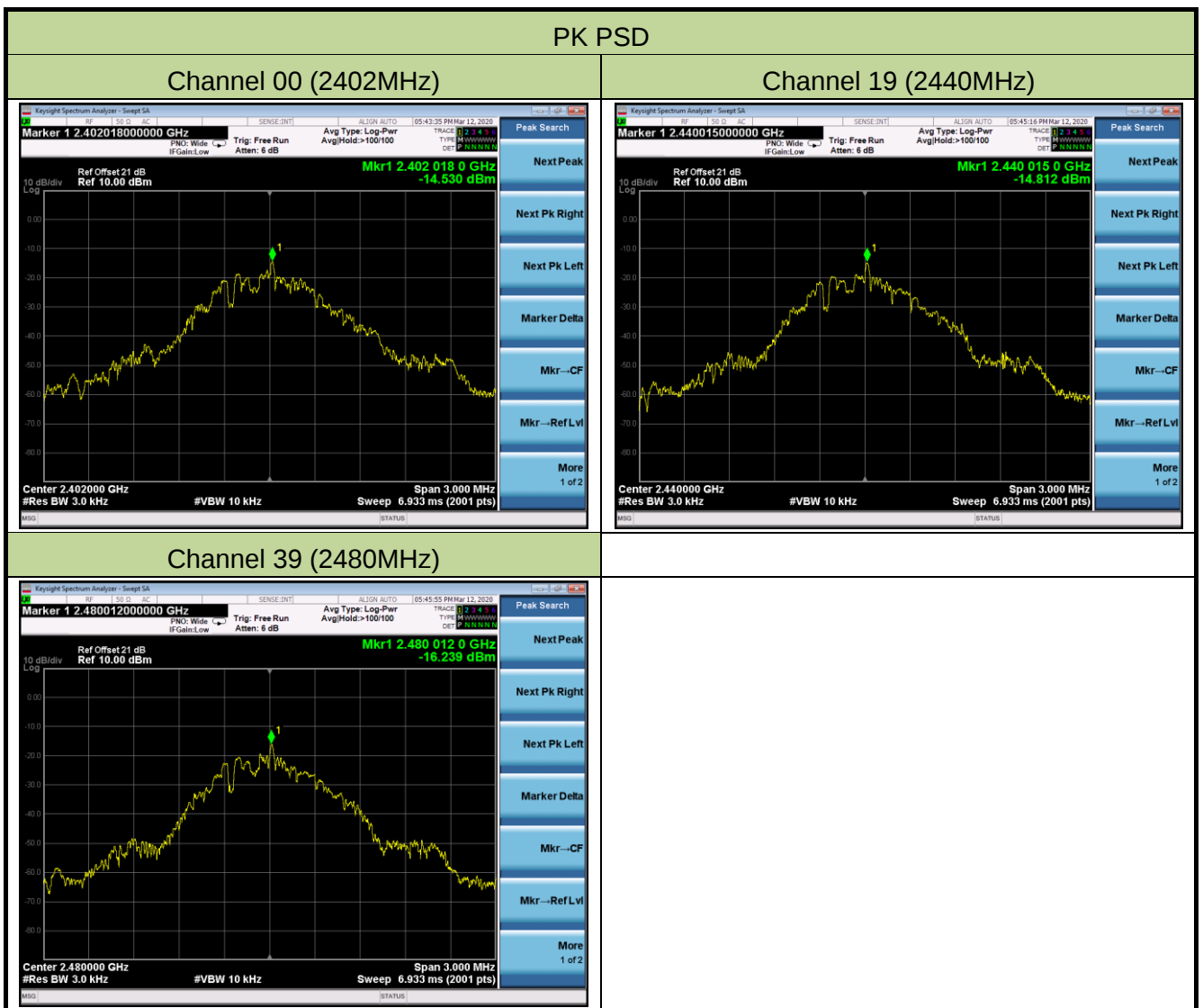
### 7.4.4. Test Setup



### 7.4.5. Test Result

|               |                     |                   |            |
|---------------|---------------------|-------------------|------------|
| Product       | Ninebot KickScooter | Temperature       | 25°C       |
| Test Engineer | Peter Syu           | Relative Humidity | 56%        |
| Test Site     | SR2                 | Test Date         | 2020/03/12 |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | PK PSD (dBm / 3kHz) | Limit (dBm / 3kHz) | Result |
|-----------|-----------------|-------------|-----------------|---------------------|--------------------|--------|
| BLE       | 1Mbps           | 00          | 2402            | -14.53              | ≤ 8.00             | Pass   |
| BLE       | 1Mbps           | 19          | 2440            | -14.81              | ≤ 8.00             | Pass   |
| BLE       | 1Mbps           | 39          | 2480            | -16.24              | ≤ 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 Setting**

#### **Reference level measurement**

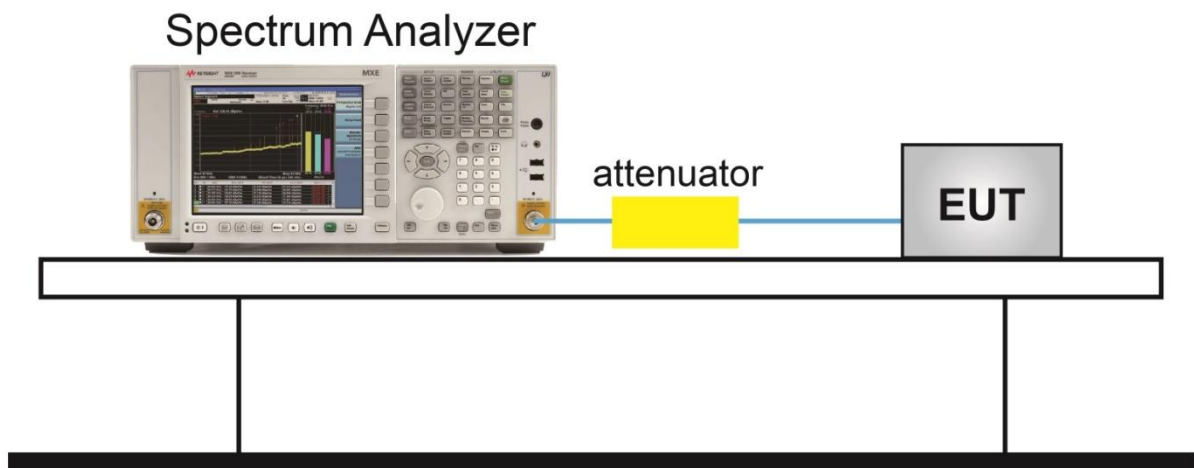
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq 1.5$  times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq 3 \times$  RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **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**

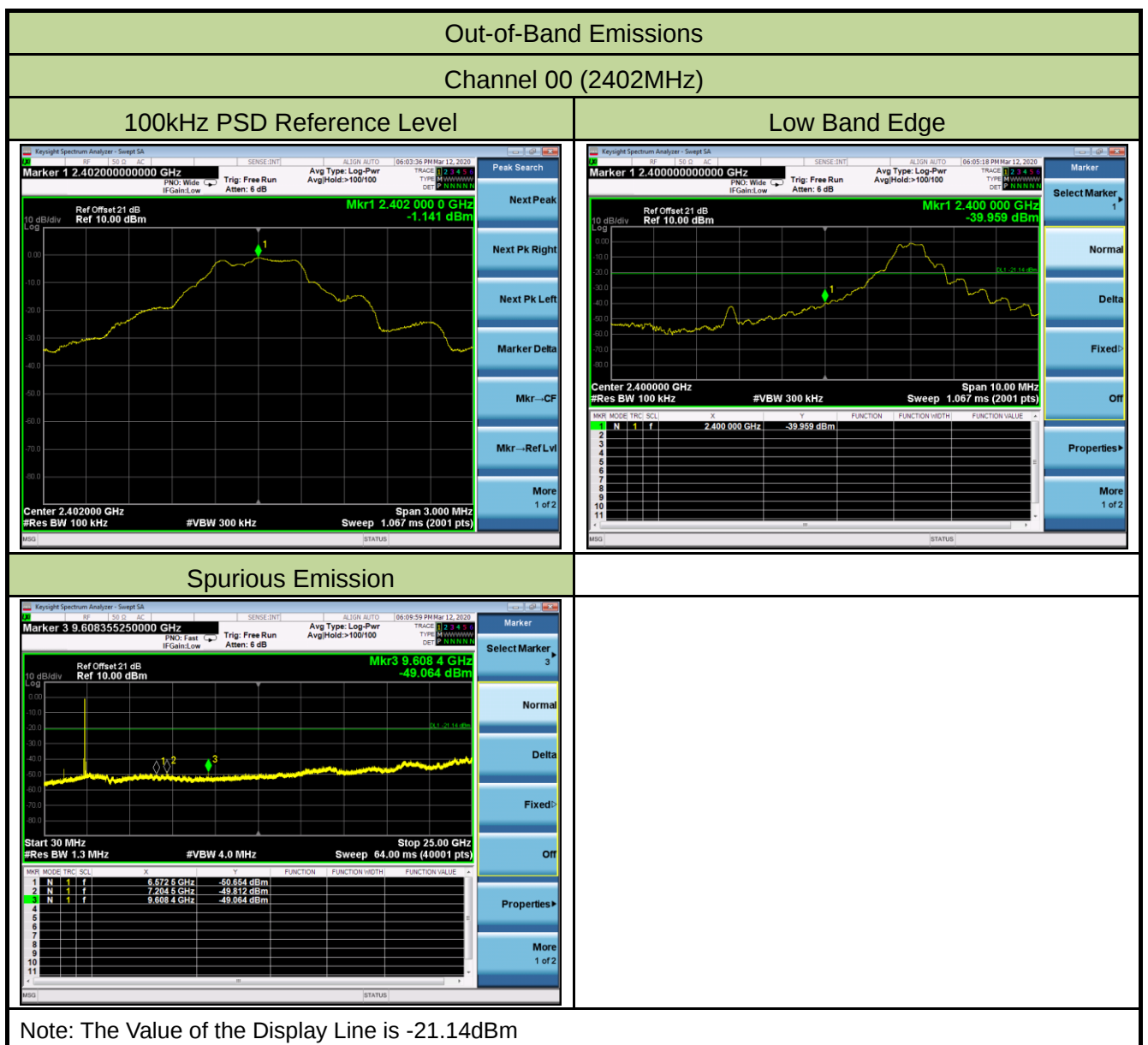
1. RBW was set to 1.3MHz rather than 100 kHz in order to increase the measurement speed; meanwhile, the VBW was set to 4MHz instead of 300 kHz.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100 kHz bandwidth. However, since 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.
3. 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 | Temperature       | 25°C       |
| Test Engineer | Peter Syu           | Relative Humidity | 56%        |
| Test Site     | SR2                 | Test Date         | 2020/03/12 |

| 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   |

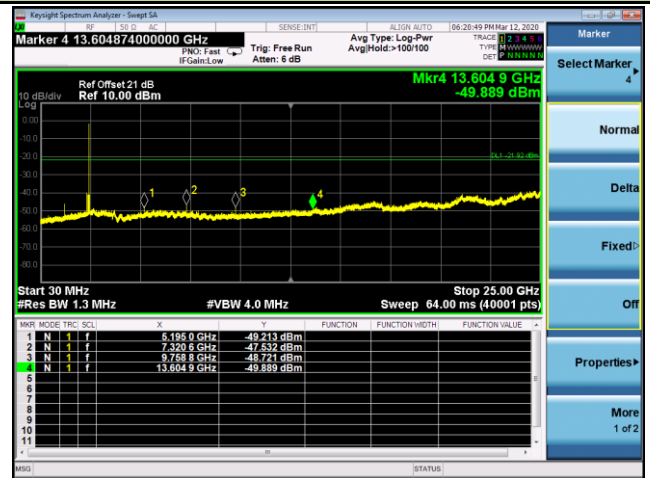


### Channel 19 (2440MHz)

#### 100kHz PSD Reference Level



#### Spurious Emission



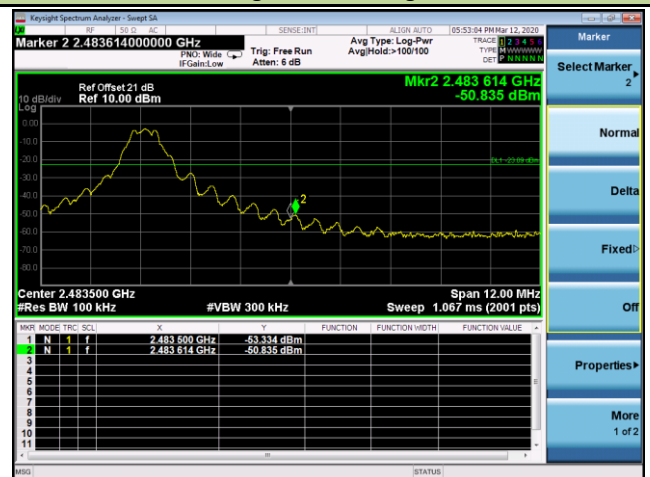
Note: The Value of the Display Line is -21.92dBm

### Channel 39 (2480MHz)

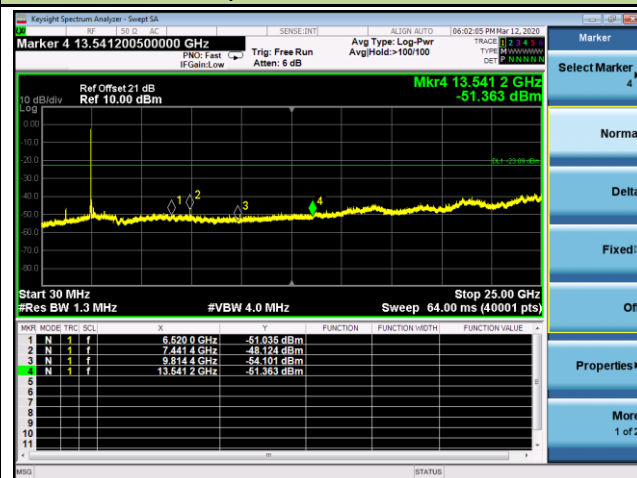
#### 100kHz PSD Reference Level



#### High Band Edge



#### Spurious Emission



Note: The Value of the Display Line is -23.09dBm

## 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.

| FCC Part 15 Subpart C Paragraph 15.209 |                                              |                               |
|----------------------------------------|----------------------------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[ $\mu\text{V}/\text{m}$ ] | Measured Distance<br>[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-Gen Section 8.9 |                                              |                                                                    |                          |
|---------------------|----------------------------------------------|--------------------------------------------------------------------|--------------------------|
| Frequency<br>(MHz)  | Field Strength<br>( $\mu\text{V}/\text{m}$ ) | Magnetic Field Strength<br>(H-Field)<br>( $\mu\text{A}/\text{m}$ ) | Measured Distance<br>(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                                          | --                                                                 | 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 |
| > 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

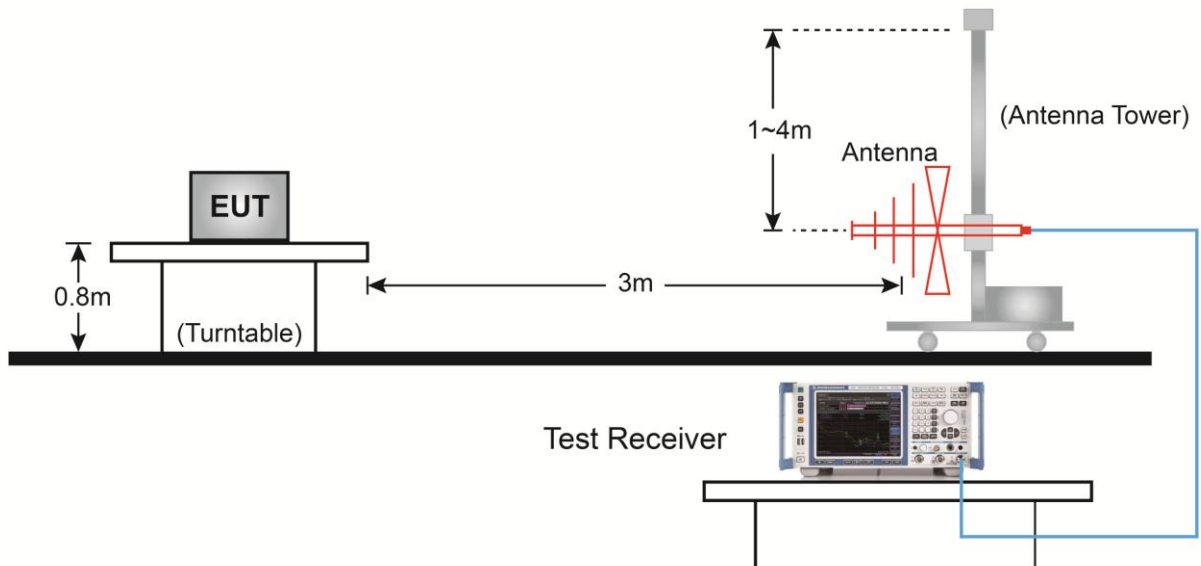
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

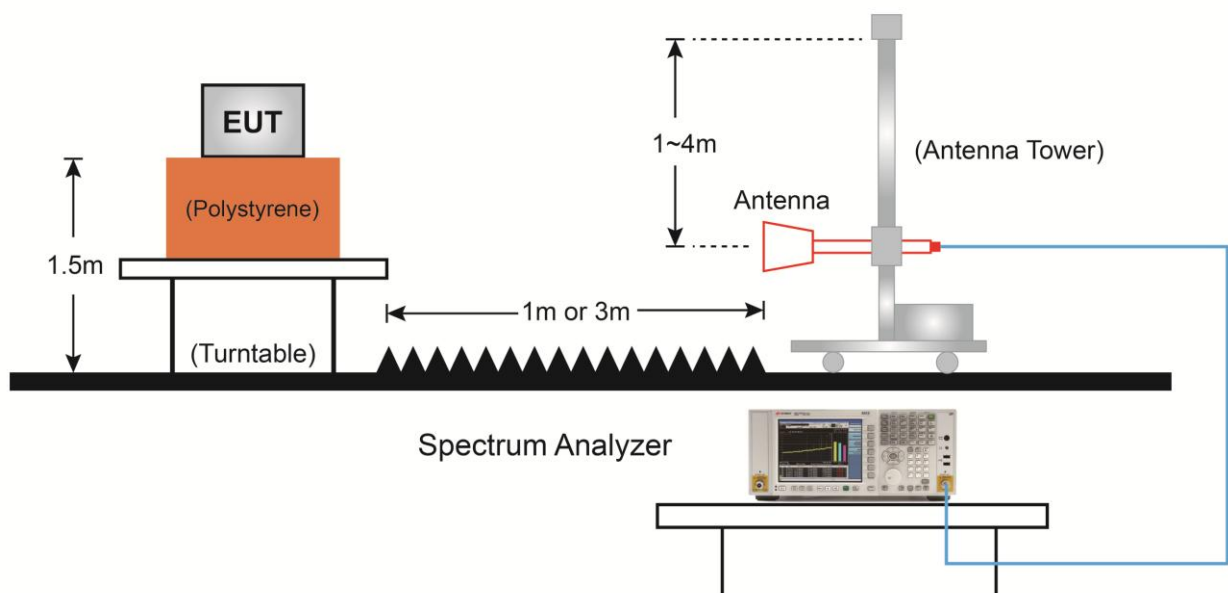
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
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:

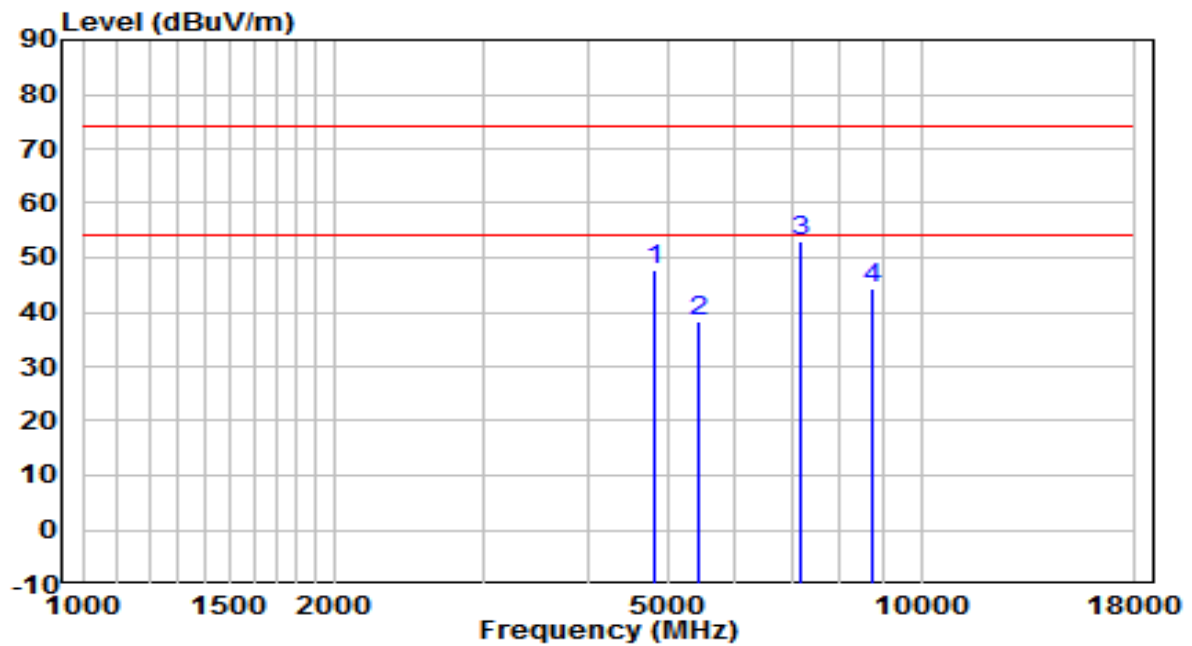


##### Above 1GHz Test Setup:



### 7.6.5. Test Result

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH00         | Test Voltage         | AC 120V/60Hz  |

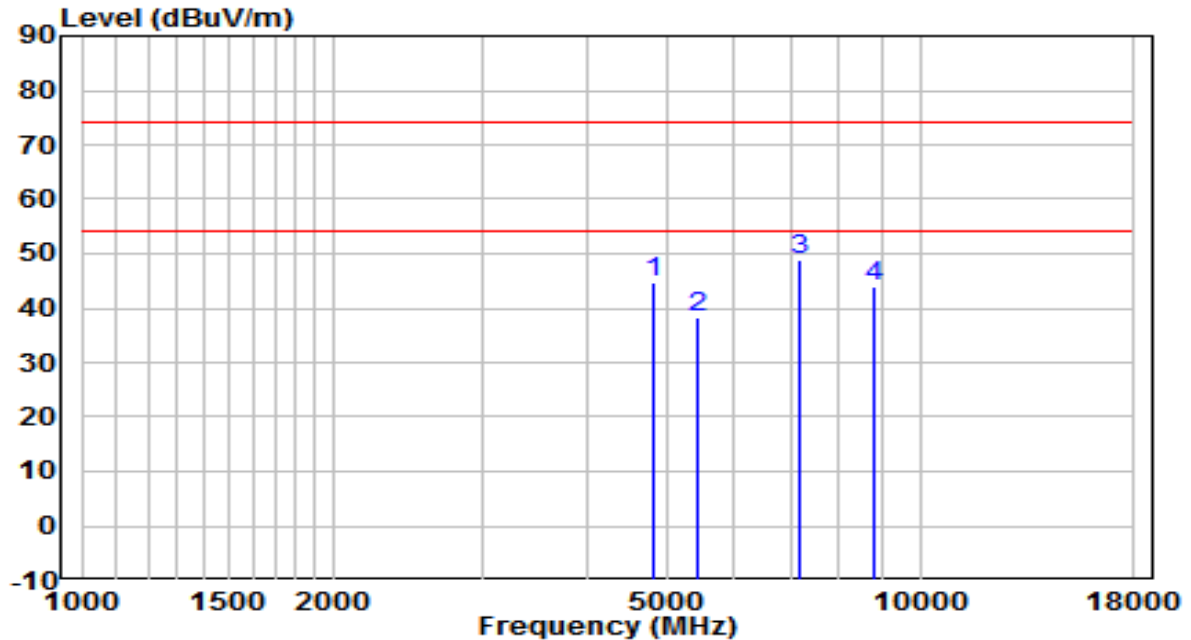


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 4808.000        | 44.38          | 3.17     | 47.55                | -26.45      | 74.00          | Peak              |
| 2  | 5437.000        | 34.46          | 3.83     | 38.29                | -35.71      | 74.00          | Peak              |
| 3  | * 7205.000      | 41.97          | 11.06    | 53.03                | -20.97      | 74.00          | Peak              |
| 4  | 8735.000        | 31.14          | 13.08    | 44.22                | -29.78      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH00         | Test Voltage         | AC 120V/60Hz  |

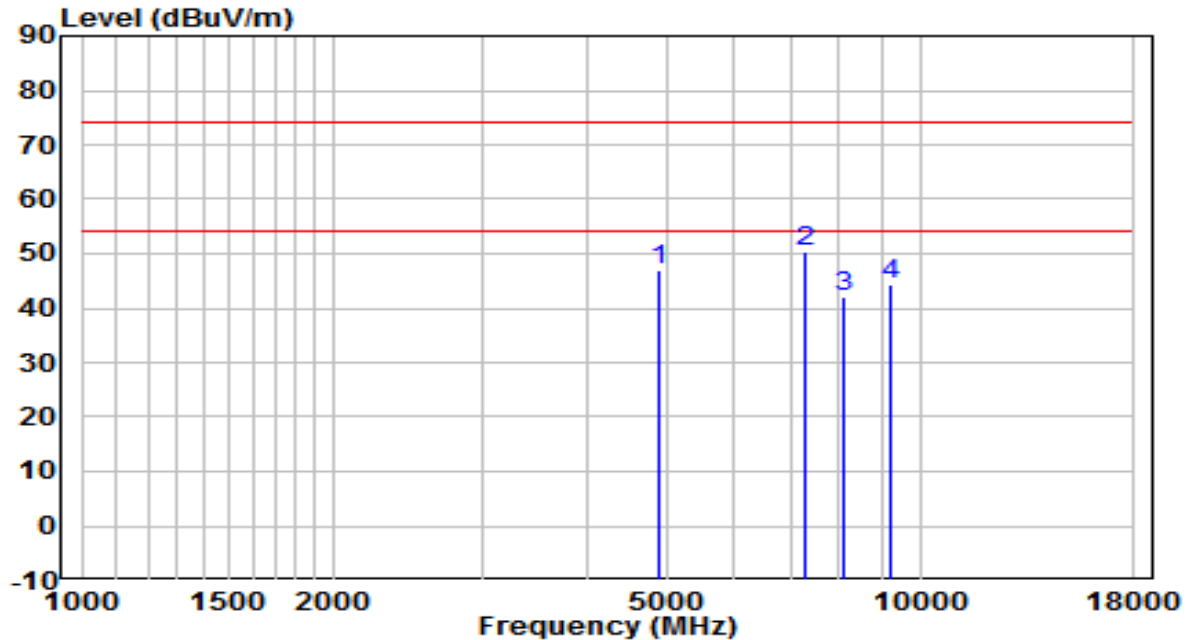


| No | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 4808.000        | 41.62          | 3.17     | 44.79                | -29.21      | 74.00          | Peak              |
| 2  | 5420.000        | 34.59          | 3.82     | 38.41                | -35.59      | 74.00          | Peak              |
| 3  | * 7205.000      | 37.89          | 11.06    | 48.95                | -25.05      | 74.00          | Peak              |
| 4  | 8837.000        | 30.76          | 13.35    | 44.11                | -29.89      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_ CH19        | Test Voltage         | AC 120V/60Hz  |

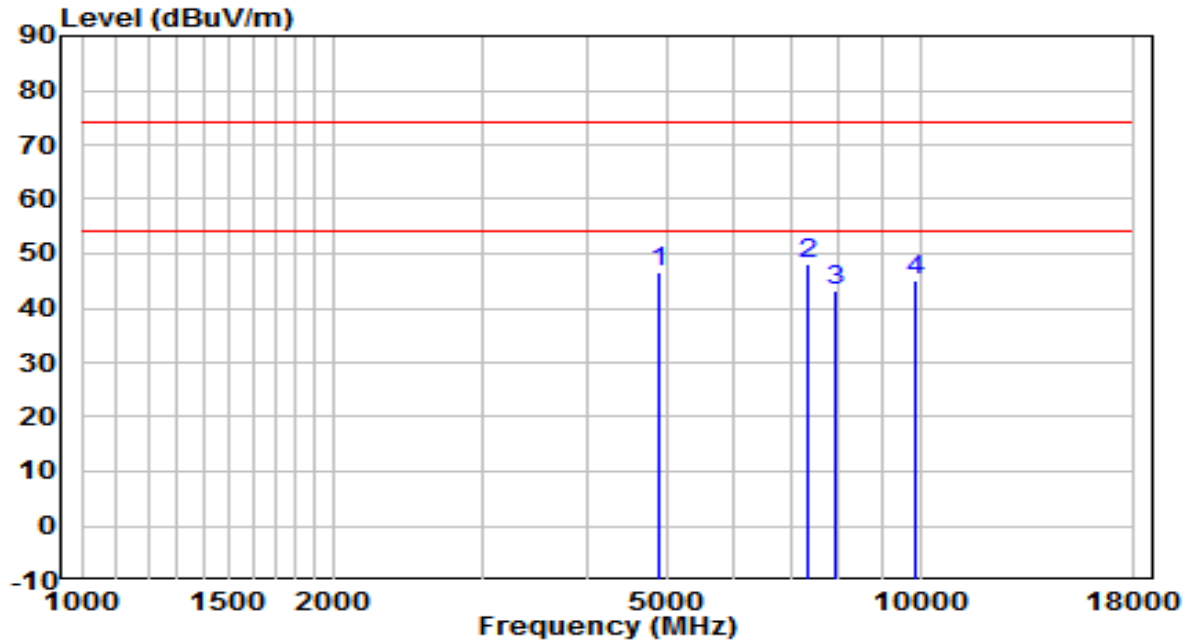


| No | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 4876.000        | 43.67          | 3.30     | 46.97                | -27.03      | 74.00          | Peak              |
| 2  | * 7315.500      | 38.99          | 11.30    | 50.29                | -23.71      | 74.00          | Peak              |
| 3  | 8114.500        | 29.72          | 12.28    | 42.00                | -32.00      | 74.00          | Peak              |
| 4  | 9253.500        | 30.67          | 13.70    | 44.36                | -29.64      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_ CH19        | Test Voltage         | AC 120V/60Hz  |

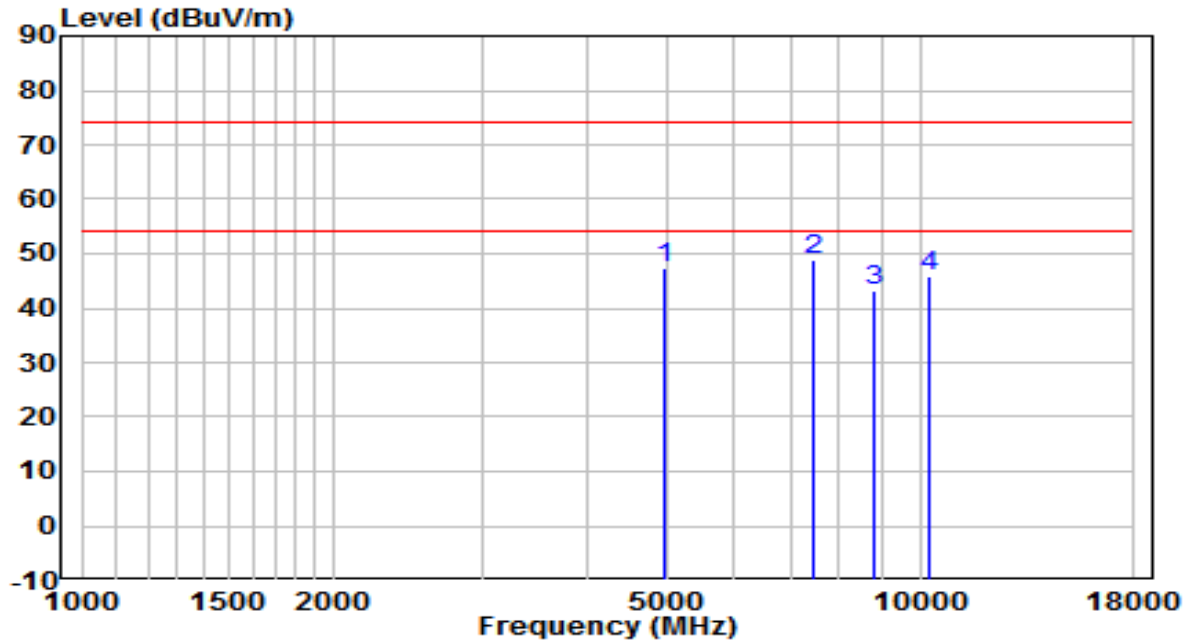


| No | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 4884.500        | 43.47          | 3.32     | 46.79                | -27.21      | 74.00          | Peak              |
| 2  | * 7324.000      | 36.62          | 11.32    | 47.94                | -26.06      | 74.00          | Peak              |
| 3  | 7902.000        | 31.04          | 12.13    | 43.17                | -30.83      | 74.00          | Peak              |
| 4  | 9899.500        | 30.28          | 14.93    | 45.21                | -28.79      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH39         | Test Voltage         | AC 120V/60Hz  |

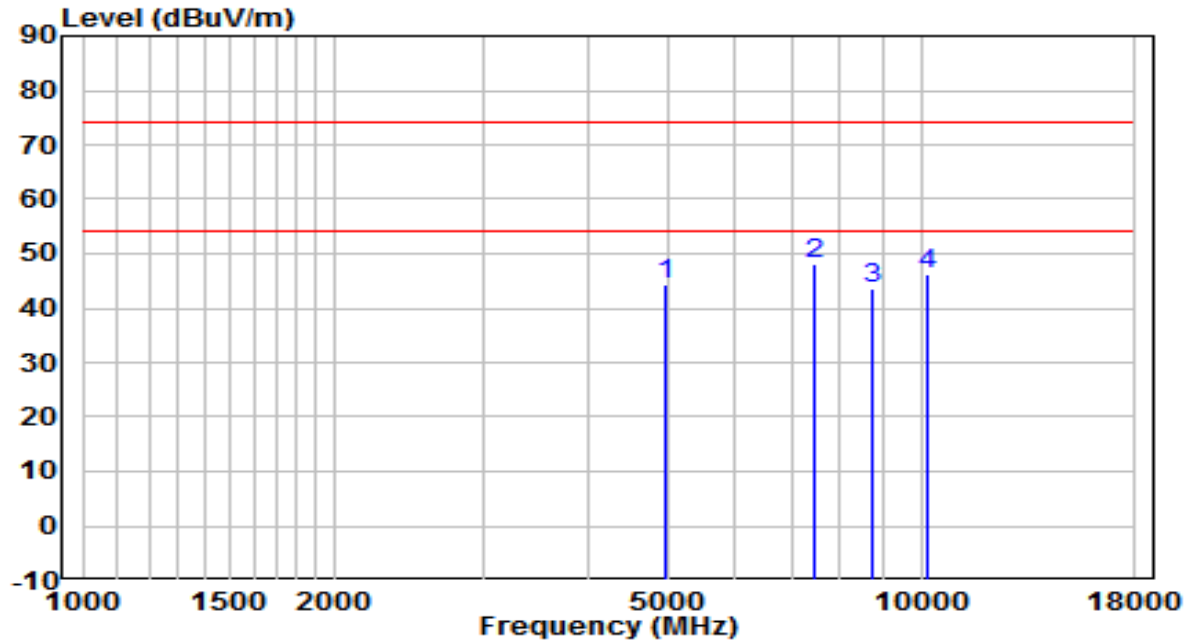


| No | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 4961.000        | 43.72          | 3.47     | 47.19                | -26.81      | 74.00          | Peak              |
| 2  | * 7443.000      | 37.40          | 11.59    | 48.99                | -25.01      | 74.00          | Peak              |
| 3  | 8820.000        | 29.94          | 13.30    | 43.24                | -30.76      | 74.00          | Peak              |
| 4  | 10265.000       | 29.77          | 16.11    | 45.88                | -28.12      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH39         | Test Voltage         | AC 120V/60Hz  |



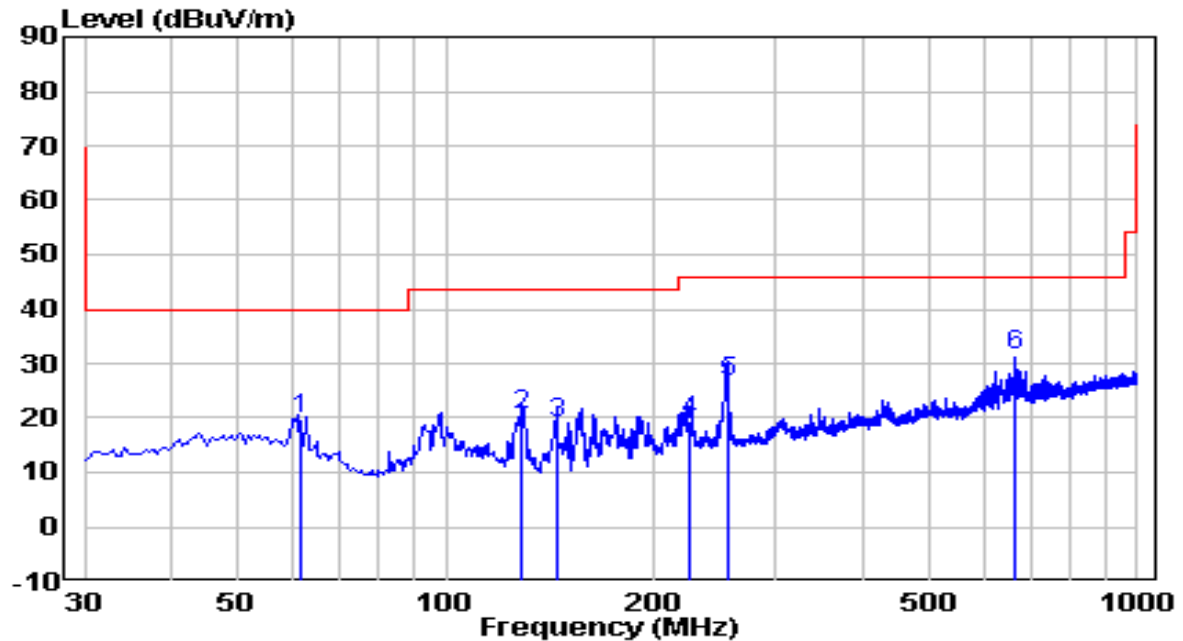
| No | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 4961.000        | 40.87          | 3.47     | 44.34                | -29.66      | 74.00          | Peak              |
| 2  | * 7443.000      | 36.38          | 11.59    | 47.97                | -26.03      | 74.00          | Peak              |
| 3  | 8760.500        | 30.38          | 13.15    | 43.53                | -30.47      | 74.00          | Peak              |
| 4  | 10205.500       | 30.43          | 15.92    | 46.35                | -27.65      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

### The Worst Case of Radiated Emission below 1GHz:

|           |             |                      |               |
|-----------|-------------|----------------------|---------------|
| EUT       | E45         | Date of Test         | 2020-04-15    |
| Factor    | VULB 9162   | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Horizontal  | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH19 | Test Voltage         | AC 120V/60Hz  |

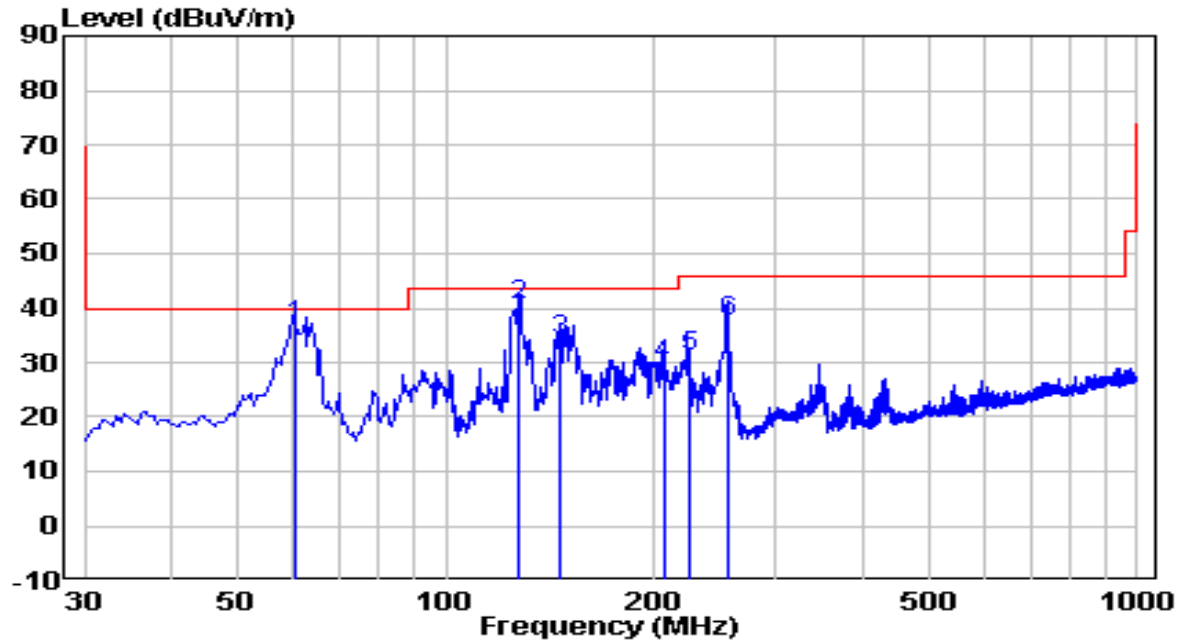


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 61.460          | 0.33           | 19.58    | 19.91                | -20.09      | 40.00          | QP                |
| 2  | 128.400         | 4.47           | 16.14    | 20.61                | -22.89      | 43.50          | QP                |
| 3  | 144.970         | 3.32           | 15.60    | 18.92                | -24.58      | 43.50          | QP                |
| 4  | 224.900         | -0.03          | 19.44    | 19.41                | -26.59      | 46.00          | QP                |
| 5  | 255.650         | 6.16           | 20.56    | 26.72                | -19.28      | 46.00          | QP                |
| 6  | * 663.700       | 3.06           | 28.56    | 31.62                | -14.38      | 46.00          | QP                |

#### Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) 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.

|           |             |                      |               |
|-----------|-------------|----------------------|---------------|
| EUT       | E45         | Date of Test         | 2020-04-15    |
| Factor    | VULB 9162   | Temp. / Humidity     | 21.8°C/39%    |
| Polarity  | Vertical    | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH19 | Test Voltage         | AC 120V/60Hz  |



| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 60.700          | 17.09          | 19.86    | 36.95                | -3.05       | 40.00          | QP                |
| 2  | * 127.660       | 24.35          | 16.21    | 40.56                | -2.94       | 43.50          | QP                |
| 3  | 146.490         | 18.65          | 15.65    | 34.30                | -9.20       | 43.50          | QP                |
| 4  | 206.300         | 10.91          | 18.72    | 29.63                | -13.87      | 43.50          | QP                |
| 5  | 224.660         | 11.67          | 19.42    | 31.09                | -14.91      | 46.00          | QP                |
| 6  | 255.400         | 16.88          | 20.56    | 37.44                | -8.56       | 46.00          | QP                |

Note:

- "\*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) 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<br>(MHz)         | Frequency<br>(MHz)    | Frequency<br>(MHz) | Frequency<br>(GHz) |
|----------------------------|-----------------------|--------------------|--------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410        | 4.5 - 5.15         |
| <sup>1</sup> 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        | ( <sup>2</sup> )   |
| 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<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[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<br>(MHz)  | Frequency<br>(MHz)    | Frequency<br>(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           |                       |                    |

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-Gen Section 8.9 |                                       |                                                             |                          |
|---------------------|---------------------------------------|-------------------------------------------------------------|--------------------------|
| Frequency<br>(MHz)  | Field Strength<br>( $\mu\text{V/m}$ ) | Magnetic Field Strength<br>(H-Field)<br>( $\mu\text{A/m}$ ) | Measured Distance<br>(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                                   | --                                                          | 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

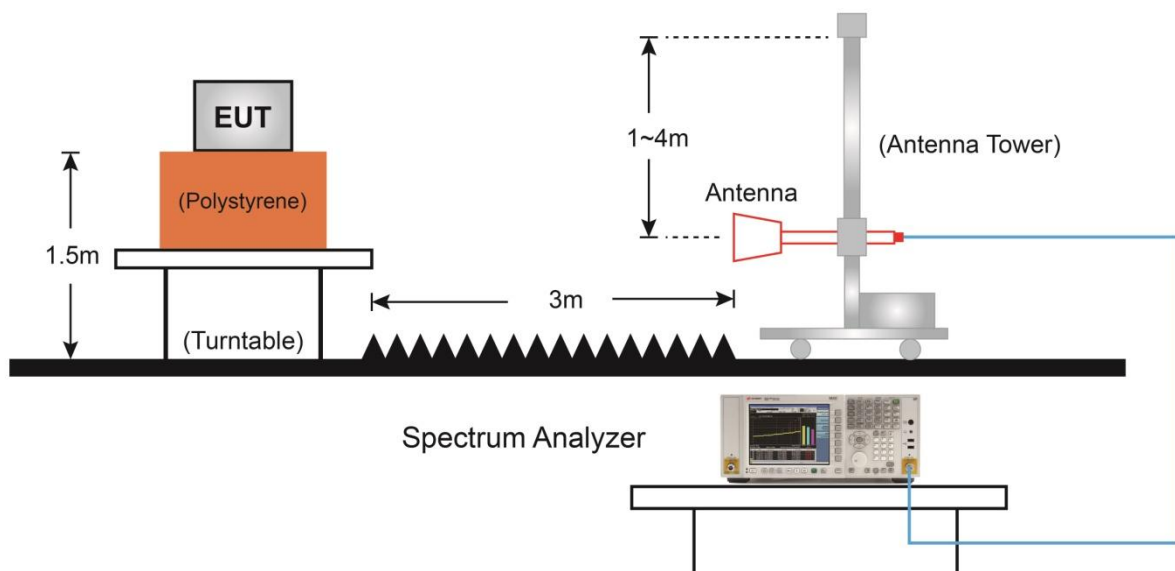
#### Peak Field Strength Measurements

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

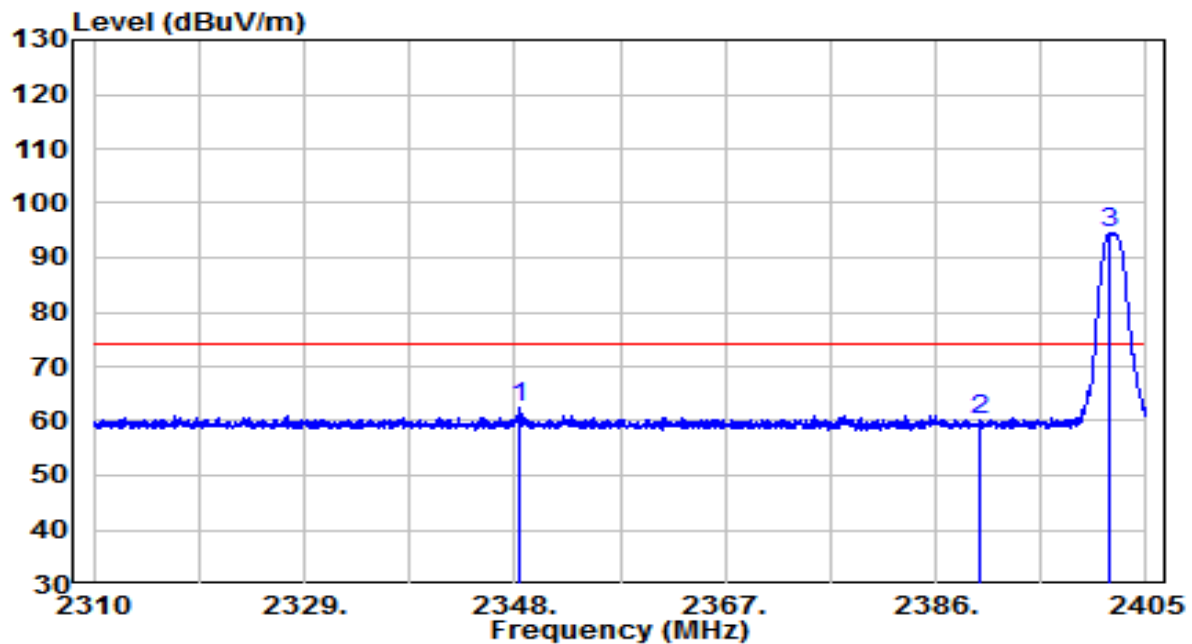
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). 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

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_ CH00        | Test Voltage         | AC 120V/60Hz  |

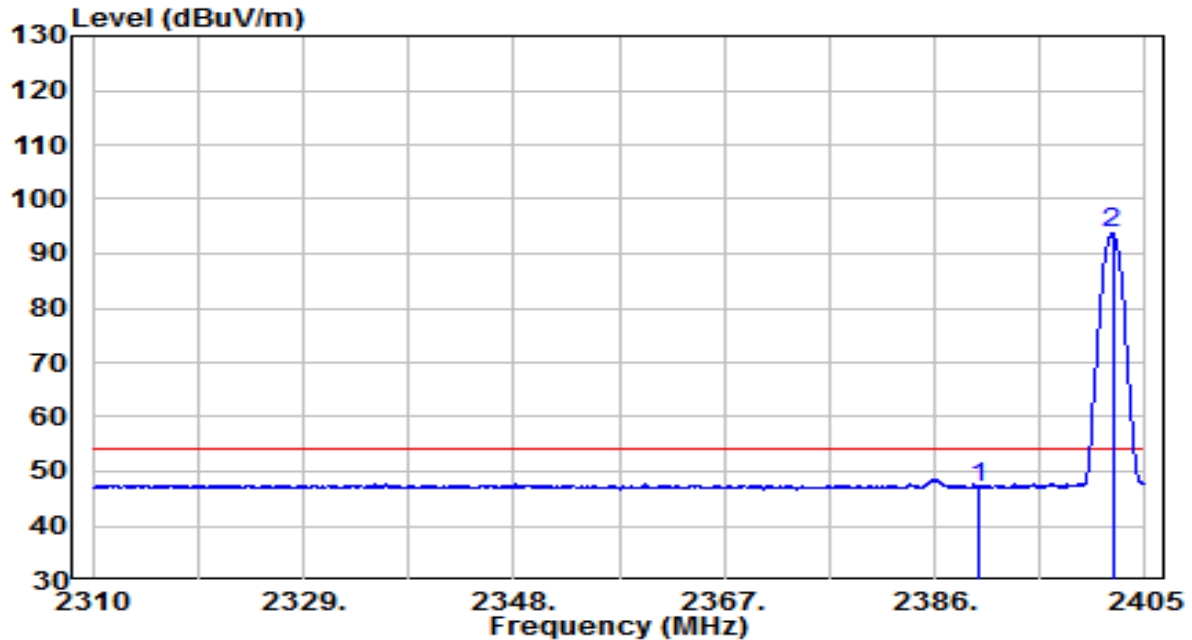


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 2348.427        | 30.49          | 32.08    | 62.57                | -11.43      | 74.00          | Peak              |
| 2  | 2390.000        | 27.85          | 32.27    | 60.13                | -13.87      | 74.00          | Peak              |
| 3  | * 2401.675      | 62.08          | 32.33    | 94.40                | N/A         | N/A            | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH00         | Test Voltage         | AC 120V/60Hz  |

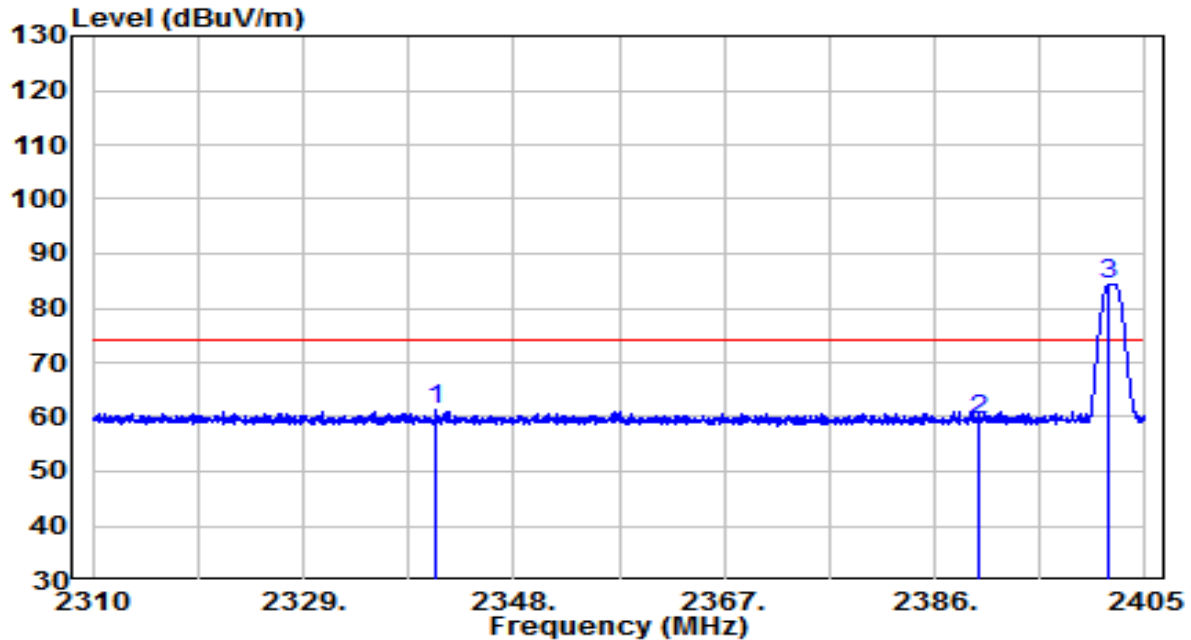


| No |   | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|---|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  |   | 2390.000        | 14.72          | 32.27    | 47.00                | -7.00       | 54.00          | Average           |
| 2  | * | 2402.055        | 61.28          | 32.33    | 93.61                | N/A         | N/A            | Average           |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH00         | Test Voltage         | AC 120V/60Hz  |

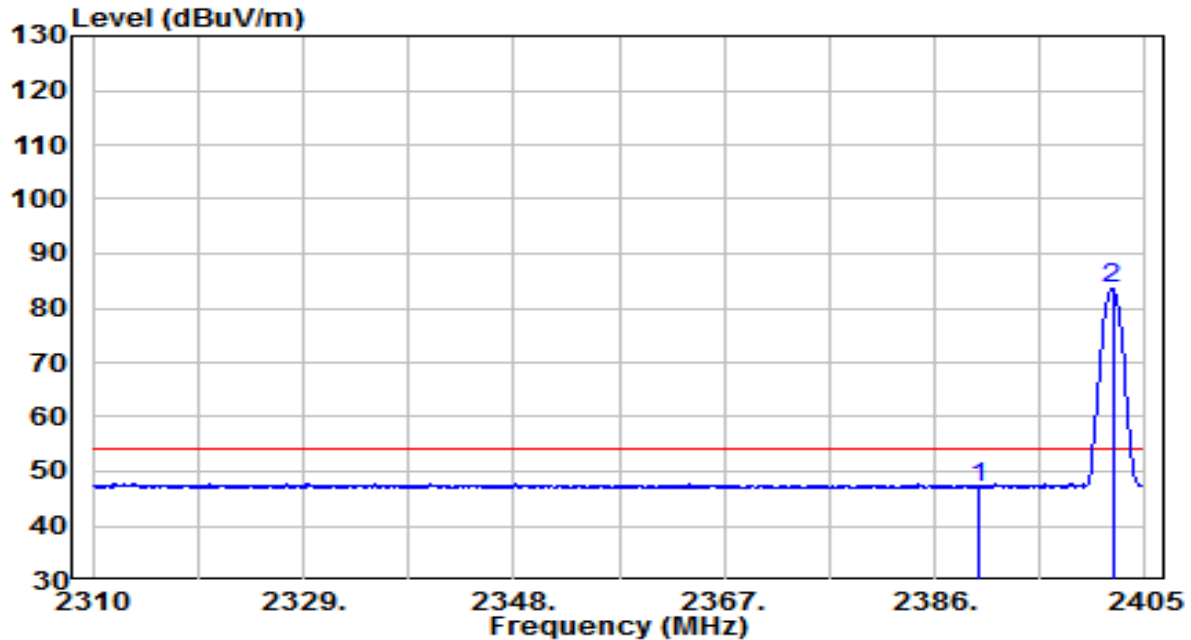


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | 2340.875        | 29.22          | 32.05    | 61.27                | -12.73      | 74.00          | Peak              |
| 2  | 2390.000        | 27.02          | 32.27    | 59.29                | -14.71      | 74.00          | Peak              |
| 3  | * 2401.675      | 52.09          | 32.33    | 84.42                | N/A         | N/A            | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH00         | Test Voltage         | AC 120V/60Hz  |

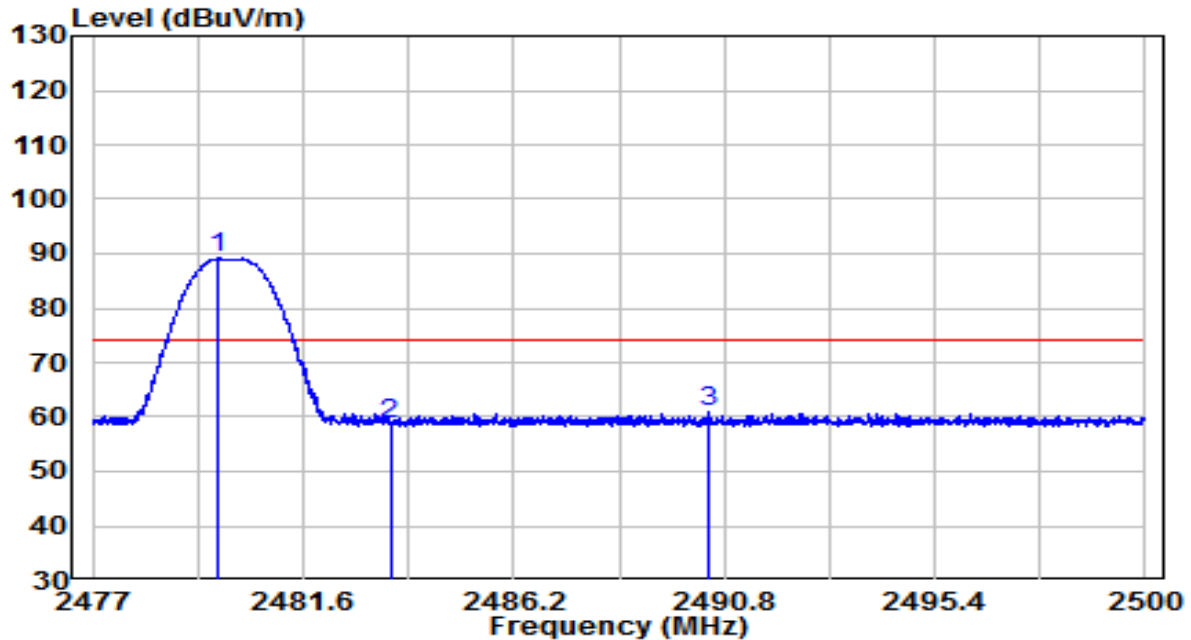


| No |   | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|---|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  |   | 2390.000        | 14.86          | 32.27    | 47.14                | -6.86       | 54.00          | Average           |
| 2  | * | 2402.055        | 51.15          | 32.33    | 83.48                | N/A         | N/A            | Average           |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH39         | Test Voltage         | AC 120V/60Hz  |

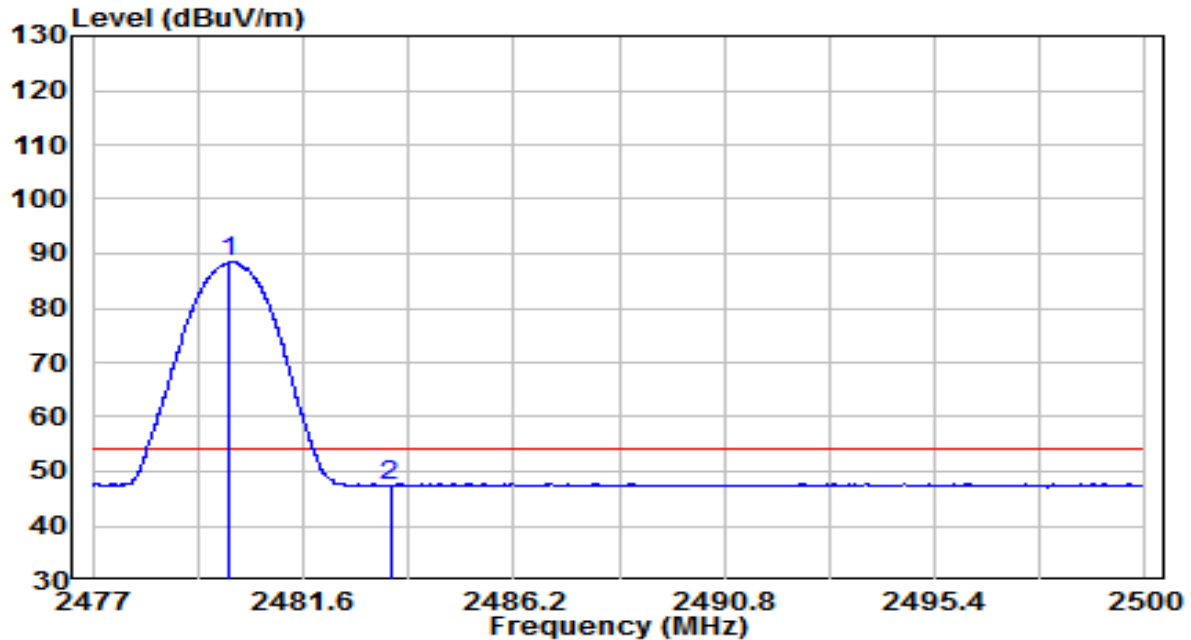


| No |   | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Remark (QP/PK/AV) |
|----|---|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | * | 2479.749        | 56.42          | 32.69    | 89.11                | N/A         | N/A            | Peak              |
| 2  |   | 2483.500        | 26.06          | 32.70    | 58.77                | -15.23      | 74.00          | Peak              |
| 3  |   | 2490.478        | 28.16          | 32.74    | 60.90                | -13.10      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Horizontal          | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH39         | Test Voltage         | AC 120V/60Hz  |

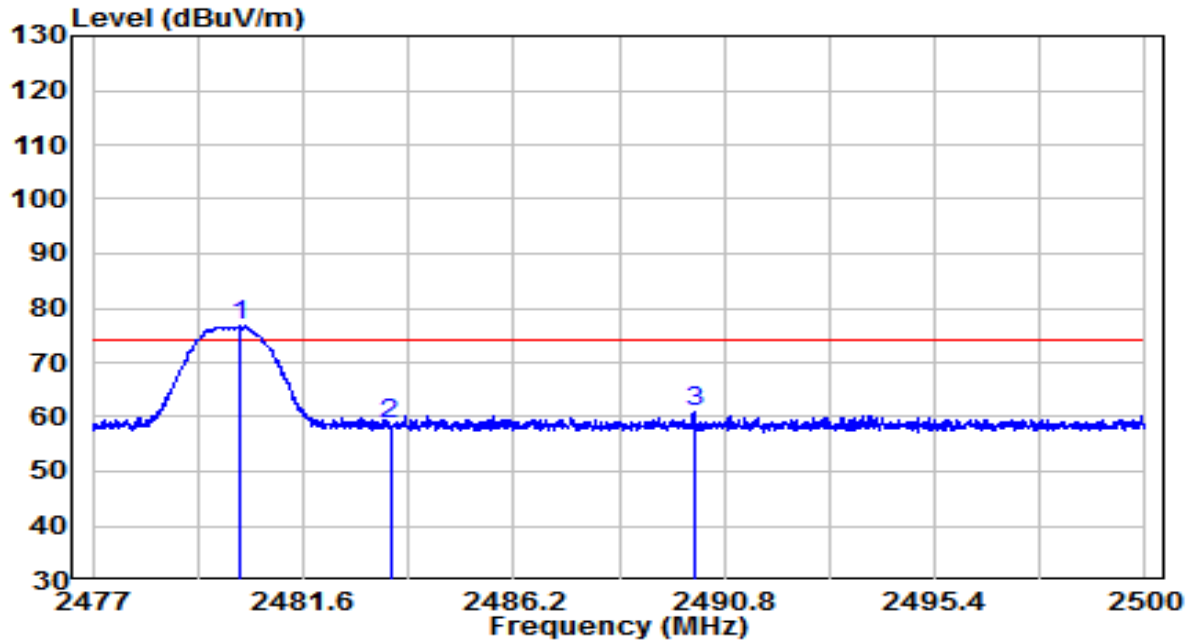


| No |   | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|---|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | * | 2480.001        | 55.70          | 32.69    | 88.39                | N/A         | N/A            | Average           |
| 2  |   | 2483.500        | 14.80          | 32.70    | 47.50                | -6.50       | 54.00          | Average           |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_CH39         | Test Voltage         | AC 120V/60Hz  |

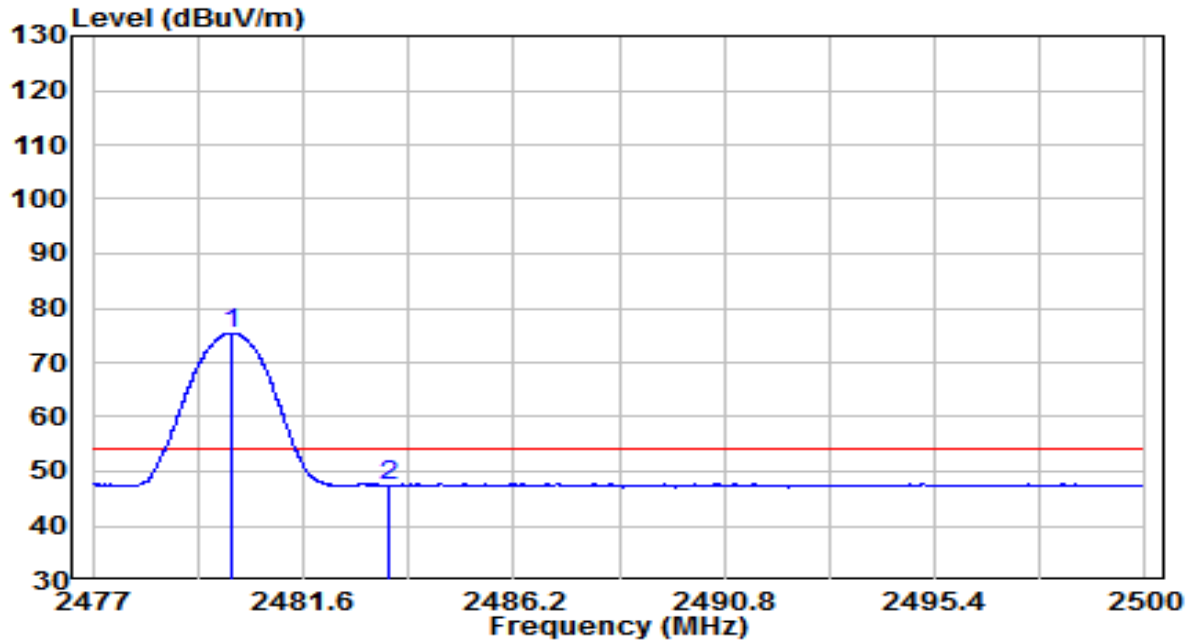


| No |   | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|---|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | * | 2480.220        | 43.97          | 32.69    | 76.66                | N/A         | N/A            | Peak              |
| 2  |   | 2483.500        | 25.91          | 32.70    | 58.61                | -15.39      | 74.00          | Peak              |
| 3  |   | 2490.133        | 28.08          | 32.73    | 60.82                | -13.18      | 74.00          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |                     |                      |               |
|-----------|---------------------|----------------------|---------------|
| EUT       | Ninebot KickScooter | Date of Test         | 2020-04-14    |
| Factor    | BBHA 9120D          | Temp. / Humidity     | 21.2°C/38%    |
| Polarity  | Vertical            | Site / Test Engineer | AC1 / Jay Chu |
| Test Mode | BLE_TX_ CH39        | Test Voltage         | AC 120V/60Hz  |



| No |   | Frequency (MHz) | Reading (dBUV) | C.F (dB) | Measurement (dBUV/m) | Margin (dB) | Limit (dBUV/m) | Remark (QP/PK/AV) |
|----|---|-----------------|----------------|----------|----------------------|-------------|----------------|-------------------|
| 1  | * | 2480.036        | 42.76          | 32.69    | 75.45                | N/A         | N/A            | Average           |
| 2  |   | 2483.498        | 14.77          | 32.70    | 47.47                | -6.53       | 54.00          | Average           |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.8. AC Conducted Emissions Measurement

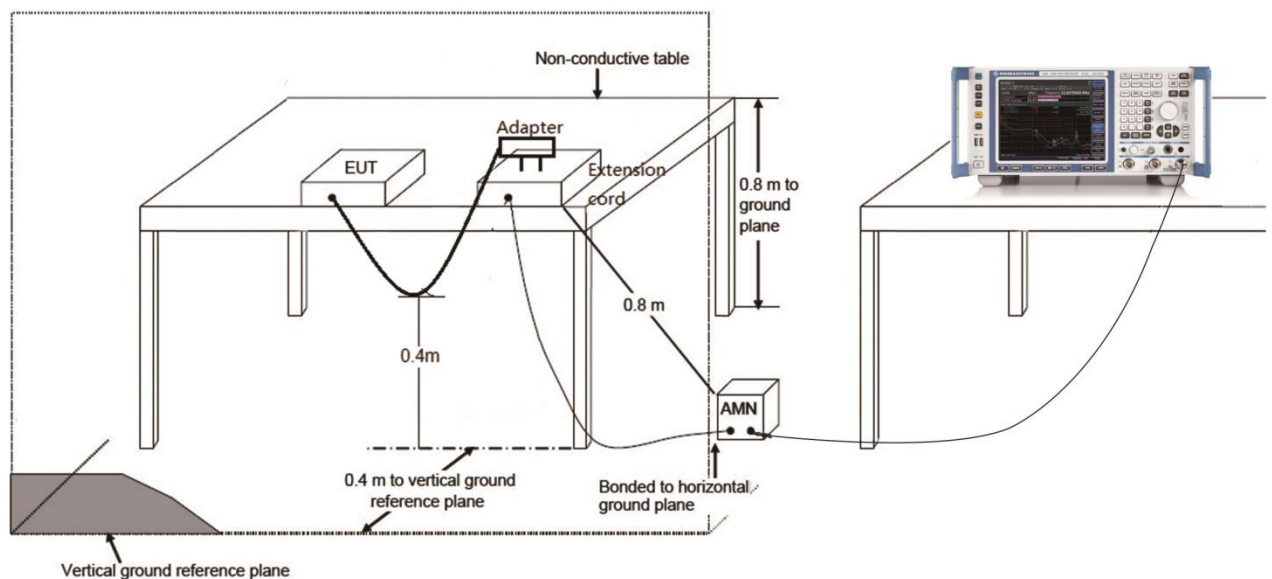
### 7.8.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Issue 5 Section 8.8 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.

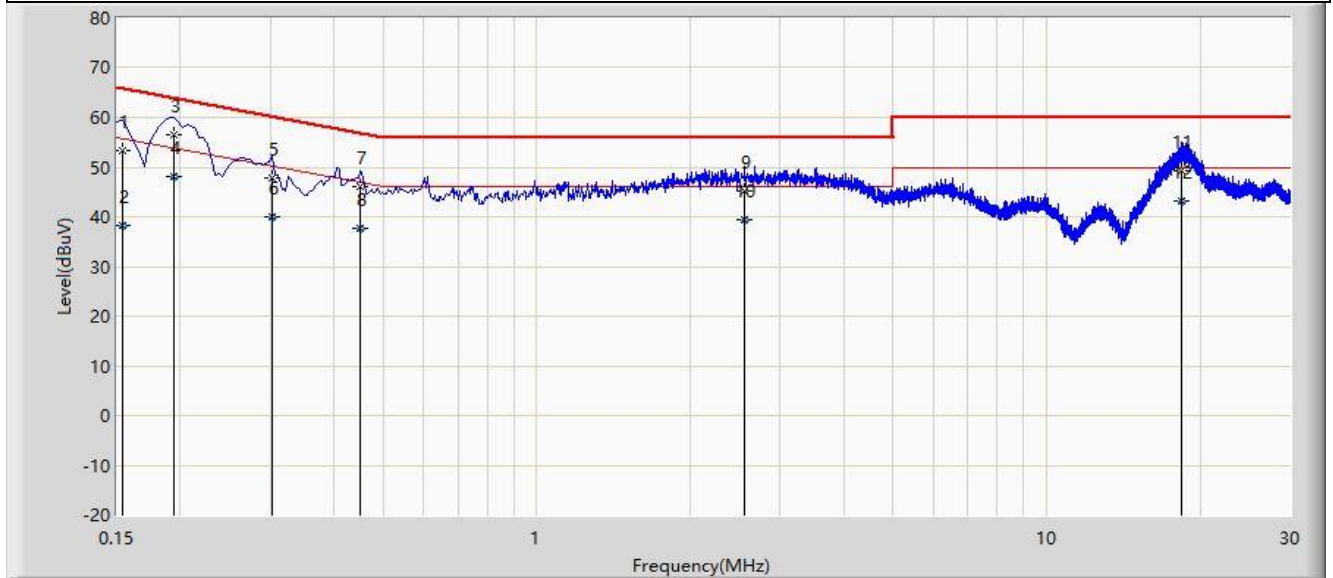
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.8.2. Test Setup



### 7.8.3.Test Result

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2019/11/25 - 17:17 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Peter Syu      |
| Probe: ENV216_101683_Filter On    | Polarity: Line           |
| EUT: Ninebot KickScooter          | Power: AC 120V/60Hz      |
| Test Mode 1                       |                          |

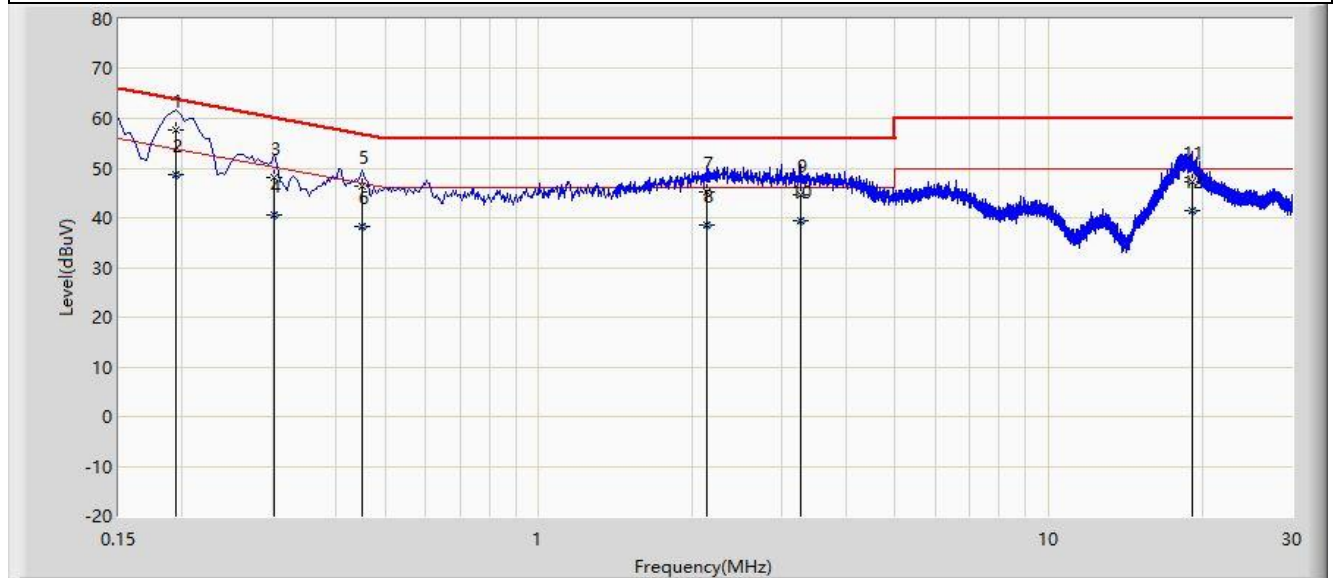


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.154           | 53.316               | 42.973               | -12.465         | 65.781       | 10.343      | QP   |
| 2  |      |      | 0.154           | 38.319               | 27.976               | -17.462         | 55.781       | 10.343      | AV   |
| 3  |      |      | 0.194           | 56.514               | 46.925               | -7.350          | 63.864       | 9.588       | QP   |
| 4  |      | *    | 0.194           | 48.100               | 38.511               | -5.764          | 53.864       | 9.588       | AV   |
| 5  |      |      | 0.302           | 47.738               | 38.130               | -12.449         | 60.188       | 9.609       | QP   |
| 6  |      |      | 0.302           | 40.105               | 30.497               | -10.082         | 50.188       | 9.609       | AV   |
| 7  |      |      | 0.450           | 46.161               | 36.559               | -10.714         | 56.875       | 9.602       | QP   |
| 8  |      |      | 0.450           | 37.804               | 28.202               | -9.071          | 46.875       | 9.602       | AV   |
| 9  |      |      | 2.550           | 45.197               | 35.500               | -10.803         | 56.000       | 9.698       | QP   |
| 10 |      |      | 2.550           | 39.367               | 29.670               | -6.633          | 46.000       | 9.698       | AV   |
| 11 |      |      | 18.318          | 49.224               | 39.258               | -10.776         | 60.000       | 9.966       | QP   |
| 12 |      |      | 18.318          | 43.202               | 33.236               | -6.798          | 50.000       | 9.966       | AV   |

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

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

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2019/11/25 - 17:17 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Peter Syu      |
| Probe: ENV216_101683_Filter On    | Polarity: Neutral        |
| EUT: Ninebot KickScooter          | Power: AC 120V/60Hz      |
| Test Mode 1                       |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      |      | 0.194           | 57.564               | 47.957               | -6.299          | 63.864       | 9.607       | QP   |
| 2  |      | *    | 0.194           | 48.656               | 39.049               | -5.207          | 53.864       | 9.607       | AV   |
| 3  |      |      | 0.302           | 48.240               | 38.628               | -11.948         | 60.188       | 9.612       | QP   |
| 4  |      |      | 0.302           | 40.625               | 31.013               | -9.563          | 50.188       | 9.612       | AV   |
| 5  |      |      | 0.450           | 46.340               | 36.729               | -10.535         | 56.875       | 9.611       | QP   |
| 6  |      |      | 0.450           | 38.120               | 28.509               | -8.755          | 46.875       | 9.611       | AV   |
| 7  |      |      | 2.130           | 45.274               | 35.587               | -10.726         | 56.000       | 9.687       | QP   |
| 8  |      |      | 2.130           | 38.646               | 28.959               | -7.354          | 46.000       | 9.687       | AV   |
| 9  |      |      | 3.254           | 44.746               | 35.043               | -11.254         | 56.000       | 9.703       | QP   |
| 10 |      |      | 3.254           | 39.411               | 29.708               | -6.589          | 46.000       | 9.703       | AV   |
| 11 |      |      | 19.178          | 47.200               | 37.163               | -12.800         | 60.000       | 10.037      | QP   |
| 12 |      |      | 19.178          | 41.381               | 31.344               | -8.619          | 50.000       | 10.037      | AV   |

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

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

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the unit is compliance with Part 15C of the FCC rules and ISED rules.

\_\_\_\_\_ The End \_\_\_\_\_

## **Appendix A - Test Setup Photograph**

Refer to “2004TW0005-UT” file.

## **Appendix B - EUT Photograph**

Refer to "2004TW0005-UE" file.