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Report No.: 1806RSU020-U1 Report Version: V01 Issue Date: 20-06-2018

# **MEASUREMENT REPORT**

# FCC PART 15C & RSS-247 Issue 2

**FCC ID:** 2ALS8-NB5213

**IC**: 22636-NB5213

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

**Application Type:** Certification

**Product:** Segway S-PLUS

Model No.: N4M350

Brand Name: Segway

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15.247

IC Rule(s): RSS-247 Issue 2

**Test Procedure(s):** ANSI C63.10-2013, KDB 558074 D01v04

**Test Date:** May 11 ~ June 03, 2018

Reviewed By : Sury Sur

(Sunny Sun)

Approved By : Robin Wu

(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 KDB 558074 D01v04. 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 (Suzhou) Co., Ltd.

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# **Revision History**

Report No.	Version	Description	Issue Date	Note
1806RSU020-U1	Rev. 01	Initial Report	20-06-2018	Valid

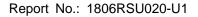
Note: This report is prepared for FCC Class II permissive change and supplement to MRT Original "1708RSU01402" Report updating the product name & capacitor of Bluetooth RF circuit and adding related data

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## §2.1033 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		
FCC Registration No.:	893164		
IC Registration No.:	11384A-1		
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering		

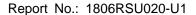
## **Test Facility / Accreditations**

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

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- 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-4179, G-814, C-4664, T-2206) 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 and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



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### 1. INTRODUCTION

### 1.1. Scope

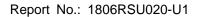
Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

#### 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 detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



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## 2. PRODUCT INFORMATION

# 2.1. Feature of Equipment under Test

Product Name:	Segway S-PLUS
Model No.:	N4M350
Brand Name:	Segway
RF Function:	Bluetooth v4.1 (BLE Only), UWB
Operation Frequency:	Bluetooth: 2402 ~ 2480MHz, UWB: 6489.6 MHz
Antenna Type:	Bluetooth Antenna: PCB Antenna, UWB Antenna: Anchor Antenna
Antenna Gain:	Bluetooth Antenna: 5dBi, UWB Antenna: 9.95dBi

# 2.2. Product Specification Subjective to this Report

Bluetooth Frequency:	2402~2480MHz
Bluetooth Version:	v4.0 (BLE Only)
Data Rate:	1Mbps(GFSK)
Antenna Gain:	5.0dBi

# 2.3. Working Frequencies

Channel List for BLE

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				

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## 2.4. Device Capabilities

This device contains the following capabilities:

UWB & Bluetooth Device.

### 2.5. Test Configuration

The **Segway S-PLUS** was tested per the guidance of KDB 558074 D01v04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

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

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

### 2.7. 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.

#### 2.8. Test Software

The test utility software used during testing was "nRFgo Studio".

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### 3. DESCRIPTION OF TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v04 were used in the measurement.

Deviation from measurement procedure......None

#### 3.2. 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. An 80cm high PVC support structure is placed on top of the turntable. 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

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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, whichever 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.

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4. ANTENNA REQUIREMENTS

## Excerpt from §15.203 of the FCC Rules/Regulations:

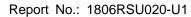
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient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

- The antenna of the **Segway S-PLUS** is **permanently attached**.
- There are no provisions for connection to an external antenna.

#### Conclusion:

The **Segway S-PLUS** unit complies with the requirement of §15.203.

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# 5. TEST EQUIPMENT CALIBRATION DATE

Radiated Disturbance - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2019/03/02
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2019/03/16
Broadband Preamplifier	SCHWARZB ECK	BBV 9718	MRTTWA00005	1 year	2019/04/06
Broadband Amplifier	SCHWARZB ECK	BBV 9721	MRTTWA00006	1 year	2019/04/06
Acitve Loop Antenna	SCHWARZB ECK	FMZB 1519B	MRTTWA00002	1 year	2019/04/06
Broadband TRILOG Antenna	SCHWARZB ECK	VULB 9162	MRTTWA00001	1 year	2019/04/06
Broadband Hornantenna	SCHWARZB ECK	BBHA 9120D	MRTTWA00003	1 year	2019/04/06
Breitband Hornantenna	SCHWARZB ECK	BBHA 9170	MRTTWA00004	1 year	2019/04/06
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00033	1 year	2019/06/07

Software	Version	Function
e3	V8.3.5	EMI Test Software

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## 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.

### Radiated Emission Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB 1GHz ~ 40GHz: 4.76dB

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## 7. TEST RESULT

## 7.1. Summary

Company Name: <u>Ninebot (Changzhou) Tech Co., Ltd.</u>

FCC ID: <u>2ALS8-NB5213</u>

FCC Section(s)	Test Description	Test Limit	Test	Test	Reference
			Condition	Result	
	General Field	Emissions in			
45 205	Strength Limits	restricted bands must			Continu
15.205 15.209	(Restricted Bands	meet the radiated	Radiated	Pass	Section
	and Radiated	limits detailed in			7.2 & 7.3
	Emission Limits)	15.209			

Notes: 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.

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## 7.2. Radiated Spurious Emission Measurement

#### 7.2.1.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 [MHz]					
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			

### 7.2.2.Test Procedure Used

KDB 558074 D01v04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

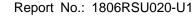
KDB 558074 D01v04 - Section 12.2.5 (average power measurements)

### 7.2.3.Test Setting

## Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

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- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

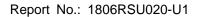
Table 1 - RBW as a function of frequency

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

## Average Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De 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

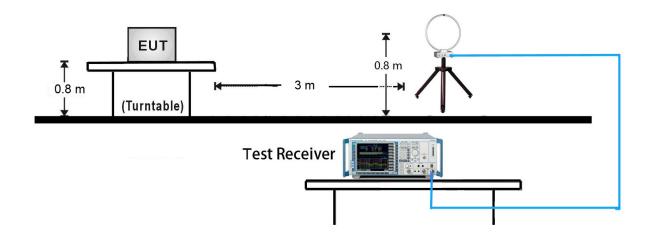
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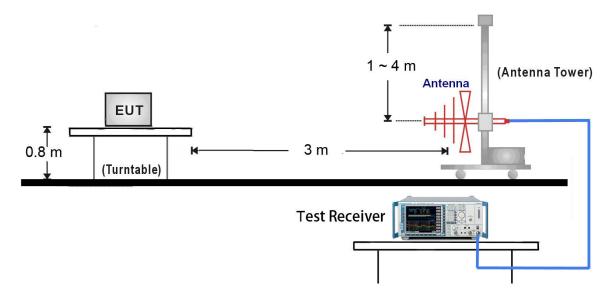


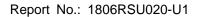
## 7.2.4.Test Setup

## 9kHz ~ 30MHz Test Setup:



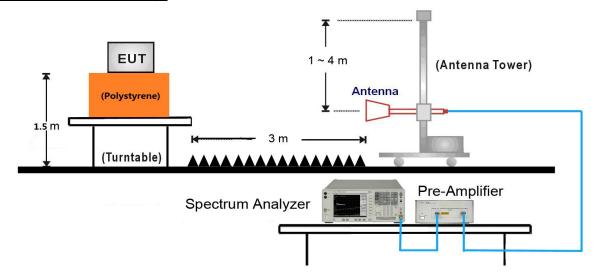
## 30MHz ~ 1GHz Test Setup:



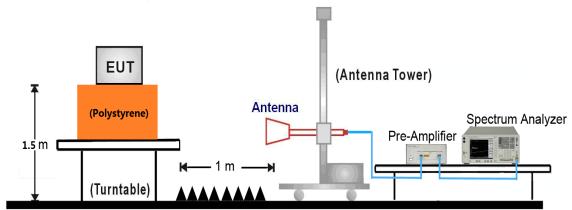




### 1GHz ~ 18GHz Test Setup:



## 18GHz ~25GHz Test Setup:





### 7.2.5.Test Result

Test Mode:	BLE	Test Site:	AC1	
Test Channel:	00	Test Engineer:	Bruce Wang	
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)				
	4060.0	39.0	3.5	42.5	74.0	-31.5	Peak	Horizontal
	4901.5	37.3	6.0	43.3	74.0	-30.7	Peak	Horizontal
*	6525.0	37.0	10.0	47.0	74.0	-27.0	Peak	Horizontal
*	7205.0	39.7	12.6	52.3	74.0	-21.7	Peak	Horizontal
	4060.0	38.2	3.5	41.7	74.0	-32.3	Peak	Vertical
	4799.5	40.6	5.8	46.4	74.0	-27.6	Peak	Vertical
*	6312.5	36.3	8.8	45.1	74.0	-28.9	Peak	Vertical
*	6950.0	36.8	11.1	47.9	74.0	-26.1	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (84.3dBµV/m) or 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)

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Test Mode:	BLE	Test Site:	AC1				
Test Channel:	19	Test Engineer:	Bruce Wang				
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)				
	4808.0	36.9	5.9	42.8	74.0	-31.2	Peak	Horizontal
	7324.0	39.4	12.6	52.0	74.0	-22.0	Peak	Horizontal
*	8004.0	36.2	13.7	49.9	74.0	-24.1	Peak	Horizontal
*	8624.5	36.7	12.9	49.6	74.0	-24.4	Peak	Horizontal
	4077.0	37.8	3.5	41.3	74.0	-32.7	Peak	Vertical
	4825.0	38.5	5.9	44.4	74.0	-29.6	Peak	Vertical
*	5989.5	36.3	7.9	44.2	74.0	-29.8	Peak	Vertical
*	6822.5	35.1	10.5	45.6	74.0	-28.4	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (82.2dBµV/m) or 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)

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Test Mode:	BLE	Test Site:	AC1				
Test Channel:	39	Test Engineer:	Bruce Wang				
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.						

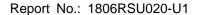
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4918.5	37.3	6.1	43.4	74.0	-30.6	Peak	Horizontal
	7443.0	40.4	12.9	53.3	74.0	-20.7	Peak	Horizontal
*	8735.0	36.6	13.0	49.6	74.0	-24.4	Peak	Horizontal
*	9780.5	34.0	16.1	50.1	74.0	-23.9	Peak	Horizontal
	4961.0	38.9	6.1	45.0	74.0	-29.0	Peak	Vertical
	7443.0	38.3	12.9	51.2	74.0	-22.8	Peak	Vertical
*	7953.0	35.5	13.5	49.0	74.0	-25.0	Peak	Vertical
*	8658.5	35.8	13.0	48.8	74.0	-25.2	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (81.7dBµV/m) or 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)

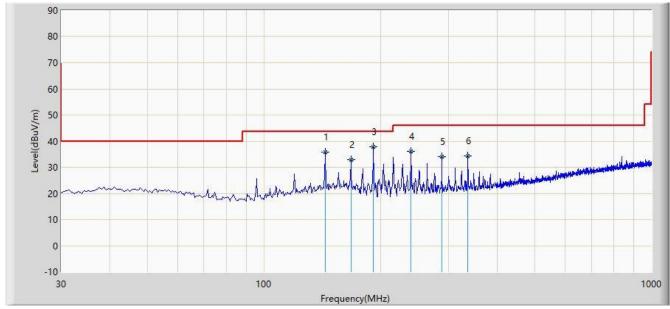
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### The worst case of Radiated Emission below 1GHz:

Worse Case Mode: Transmit by BLE at channel 2402MHz					
EUT: Segway S-PLUS	Power: By Battery				
Probe: VULB9168_20-2000MHz	Polarity: Horizontal				
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma				
Site: AC1	Time: 2018/05/25 - 00:36				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			143.975	35.806	20.940	-7.694	43.500	14.866	QP
2			167.740	32.772	18.180	-10.728	43.500	14.592	QP
3		*	191.990	37.702	26.078	-5.798	43.500	11.624	QP
4			240.005	35.954	23.086	-10.046	46.000	12.868	QP
5			288.020	34.114	20.013	-11.886	46.000	14.101	QP
6			336.035	34.222	18.929	-11.778	46.000	15.293	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)

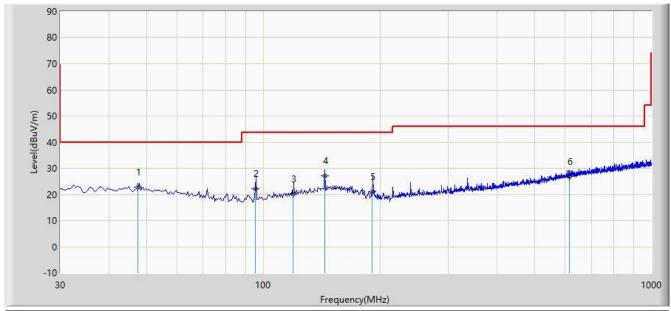
Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range:  $9kHz \sim 30MHz$ ,  $18GHz \sim 25GHz$ ), therefore no data appear in the report.

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Site: AC1	Time: 2018/05/25 - 00:41			
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni			
Probe: VULB9168_20-2000MHz	Polarity: Vertical			
EUT: Segway S-PLUS	Power: By Battery			
Worse Case Mode: Transmit by BLF at channel 2402MHz				



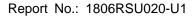
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			47.460	22.759	8.525	-17.241	40.000	14.234	QP
2			95.475	22.157	11.433	-21.343	43.500	10.725	QP
3			119.240	20.175	7.027	-23.325	43.500	13.148	QP
4		*	143.975	27.224	12.358	-16.276	43.500	14.866	QP
5			190.535	20.948	9.246	-22.552	43.500	11.702	QP
6			614.910	26.886	5.995	-19.114	46.000	20.890	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 ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

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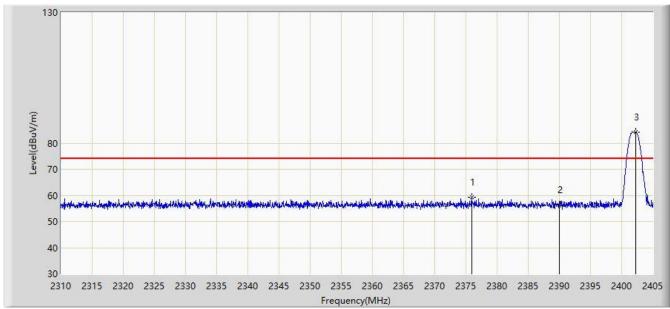




# 7.3. Radiated Restricted Band Edge Measurement

### 7.3.1.Test Result

Site: AC1	Time: 2018/05/11 - 02:47				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2375.930	59.340	26.993	-14.660	74.000	32.346	PK
2			2390.000	56.359	24.032	-17.641	74.000	32.327	PK
3		*	2402.292	84.312	52.008	N/A	N/A	32.304	PK

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

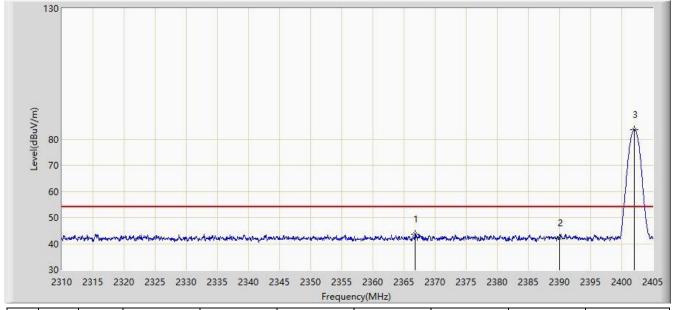
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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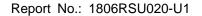
Site: AC1	Time: 2018/05/11 - 02:48				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2366.810	43.614	11.250	-10.386	54.000	32.364	AV
2			2390.000	42.183	9.856	-11.817	54.000	32.327	AV
3		*	2402.055	83.611	51.307	N/A	N/A	32.304	AV

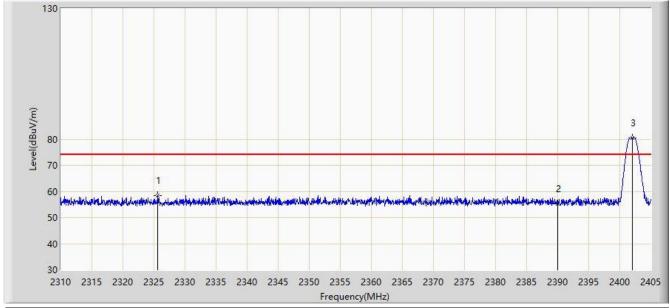
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2ALS8-NB5213 IC: 22636-NB5213





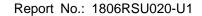
Site: AC1	Time: 2018/05/11 - 02:49				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2325.627	58.436	25.941	-15.564	74.000	32.495	PK
2			2390.000	55.282	22.955	-18.718	74.000	32.327	PK
3		*	2402.008	80.538	48.234	N/A	N/A	32.305	PK

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

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Site: AC1	Time: 2018/05/11 - 02:50				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2402MHz					

130 80 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

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2370.515	44.475	12.118	-9.525	54.000	32.356	AV
2			2390.000	42.062	9.735	-11.938	54.000	32.327	AV
3		*	2401.960	79.605	47.300	N/A	N/A	32.305	AV

Frequency(MHz)

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

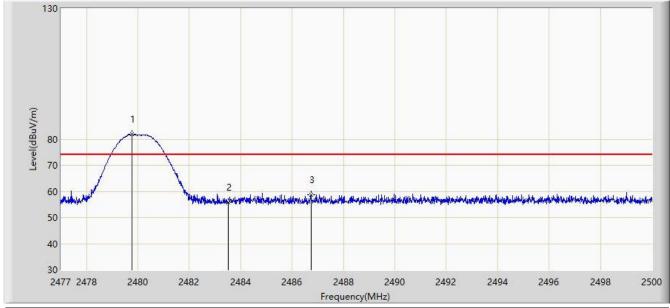
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2ALS8-NB5213 IC: 22636-NB5213

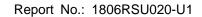




Site: AC1	Time: 2018/05/11 - 02:50				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2480MHz					

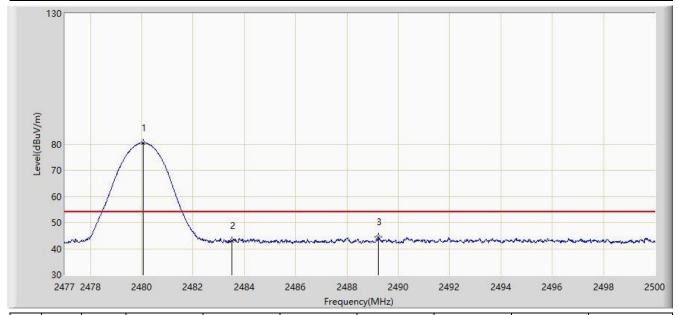


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.760	81.744	49.420	N/A	N/A	32.325	PK
2			2483.500	55.909	23.570	-18.091	74.000	32.340	PK
3			2486.729	58.588	26.236	-15.412	74.000	32.351	PK

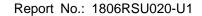




Site: AC1	Time: 2018/05/11 - 02:51				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2480MHz					

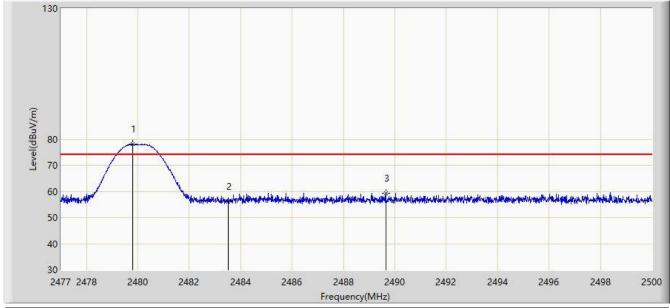


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.059	80.481	48.155	N/A	N/A	32.325	AV
2			2483.500	42.989	10.650	-11.011	54.000	32.340	AV
3			2489.225	44.369	12.007	-9.631	54.000	32.362	AV

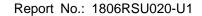




Site: AC1	Time: 2018/05/11 - 02:52				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2480MHz					

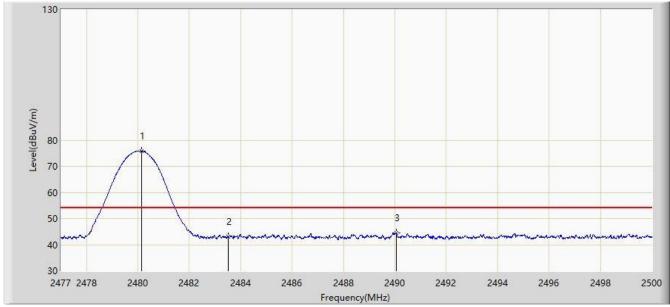


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.783	78.023	45.698	N/A	N/A	32.325	PK
2			2483.500	56.140	23.801	-17.860	74.000	32.340	PK
3			2489.650	59.335	26.972	-14.665	74.000	32.364	PK





Site: AC1	Time: 2018/05/11 - 02:53				
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Segway S-PLUS	Power: By Battery				
Test Mode: Transmit by BLE at channel 2480MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.139	75.849	43.523	N/A	N/A	32.326	AV
2			2483.500	42.934	10.595	-11.066	54.000	32.340	AV
3			2490.052	44.459	12.094	-9.541	54.000	32.364	AV



## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Segway S-PLUS** is in compliance with Part 15C of the FCC Rules & IC Rules.

------ The End ------

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