



## RF MEASUREMENT REPORT

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**FCC ID:** 2ALS8-OP0002

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

**Product:** Segway Gokart Game Kit

**Model No.:** PI1401

**Brand Name:** Segway

**FCC Classification:** Part 15 Low Power Communication Device Transmitter (DXX)

**FCC Rule Part(s):** Part 15.249

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

**Result:** Complies

**Received Date:** 2023-06-27

**Test Date:** 2023-09-25 ~ 2023-10-12

**Reviewed By:**

\_\_\_\_\_  
Vincent Yu

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

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  |
|---------------|---------|----------------|------------|-------|
| 2306RSU045-U3 | V01     | Initial Report | 2023-10-26 | Valid |
|               |         |                |            |       |

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## 1. General Information

### 1.1. Applicant

Ninebot (Changzhou) Tech Co., Ltd.

16F-17F, Block A, Building 3, No.18, Changwu Mid Rd, Wujin Dist., Changzhou, Jiangsu, China.

### 1.2. Manufacturer

Ninebot (Changzhou) Tech Co., Ltd.

16F-17F, Block A, Building 3, No.18, Changwu Mid Rd, Wujin Dist., Changzhou, Jiangsu, China.

### 1.3. Testing Facility

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site – MRT Suzhou Laboratory</b><br><b>Laboratory Location (Suzhou - Wuzhong)</b><br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China<br><b>Laboratory Location (Suzhou - SIP)</b><br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China<br><b>Laboratory Accreditations</b><br>A2LA: 3628.01 CNAS: L10551<br>FCC: CN1166 ISED: CN0001<br>VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020<br><input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104 |
| <input type="checkbox"/>            | <b>Test Site – MRT Shenzhen Laboratory</b><br><b>Laboratory Location (Shenzhen)</b><br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China<br><b>Laboratory Accreditations</b><br>A2LA: 3628.02 CNAS: L10551<br>FCC: CN1284 ISED: CN0105                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input type="checkbox"/>            | <b>Test Site – MRT Taiwan Laboratory</b><br><b>Laboratory Location (Taiwan)</b><br>No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)<br><b>Laboratory Accreditations</b><br>TAF: 3261<br>FCC: 291082, TW3261 ISED: TW3261                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### 1.4. Product Information

|                                                                                                                                                     |                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Product Name                                                                                                                                        | Segway Gokart Game Kit                                                   |
| Model No.                                                                                                                                           | PI1401                                                                   |
| EUT Identification No.                                                                                                                              | 20230731Sample#08                                                        |
| SRD Specification                                                                                                                                   | 2402 ~ 2480MHz                                                           |
| Bluetooth Specification                                                                                                                             | BLE (1Mbps only)                                                         |
| Antenna Information                                                                                                                                 | Refer to section 1.7                                                     |
| Operating Temperature                                                                                                                               | -10°C ~ +50°C                                                            |
| Accessories                                                                                                                                         |                                                                          |
| Rechargeable Li-ion Battery                                                                                                                         | Model: YJ123333D<br>Capacitance: 1500mAh / 5.55Wh<br>Rated Voltage: 3.7V |
| Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. |                                                                          |

#### 1.5. Radio Specification

|                          |                 |
|--------------------------|-----------------|
| 2.4GHz SRD Specification |                 |
| Frequency Range          | 2402 ~ 2480 MHz |
| Channel Number           | 79              |
| Type of modulation       | GFSK            |

### 1.6. Working Frequencies

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 01      | 2402 MHz  | 02      | 2403 MHz  | 03      | 2404 MHz  |
| 04      | 2405 MHz  | 05      | 2406 MHz  | 06      | 2407 MHz  |
| 07      | 2408 MHz  | 08      | 2409 MHz  | 09      | 2410 MHz  |
| 10      | 2411 MHz  | 11      | 2412 MHz  | 12      | 2413 MHz  |
| 13      | 2414 MHz  | 14      | 2415 MHz  | 15      | 2416 MHz  |
| 16      | 2417 MHz  | 17      | 2418 MHz  | 18      | 2419 MHz  |
| 19      | 2420 MHz  | 20      | 2421 MHz  | 21      | 2422 MHz  |
| 22      | 2423 MHz  | 23      | 2424 MHz  | 24      | 2425 MHz  |
| 25      | 2426 MHz  | 26      | 2427 MHz  | 27      | 2428 MHz  |
| 28      | 2429 MHz  | 29      | 2430 MHz  | 30      | 2431 MHz  |
| 31      | 2432 MHz  | 32      | 2433 MHz  | 33      | 2434 MHz  |
| 34      | 2435 MHz  | 35      | 2436 MHz  | 36      | 2437 MHz  |
| 37      | 2438 MHz  | 38      | 2439 MHz  | 39      | 2440 MHz  |
| 40      | 2441 MHz  | 41      | 2442 MHz  | 42      | 2443 MHz  |
| 43      | 2444 MHz  | 44      | 2445 MHz  | 45      | 2446 MHz  |
| 46      | 2447 MHz  | 47      | 2448 MHz  | 48      | 2449 MHz  |
| 49      | 2450 MHz  | 50      | 2451 MHz  | 51      | 2452 MHz  |
| 52      | 2453 MHz  | 53      | 2454 MHz  | 54      | 2455 MHz  |
| 55      | 2456 MHz  | 56      | 2457 MHz  | 57      | 2458 MHz  |
| 58      | 2459 MHz  | 59      | 2460 MHz  | 60      | 2461 MHz  |
| 61      | 2462 MHz  | 62      | 2463 MHz  | 63      | 2464 MHz  |
| 64      | 2465 MHz  | 65      | 2466 MHz  | 66      | 2467 MHz  |
| 67      | 2468 MHz  | 68      | 2469 MHz  | 69      | 2470 MHz  |
| 70      | 2471 MHz  | 71      | 2472 MHz  | 72      | 2473 MHz  |
| 73      | 2474 MHz  | 74      | 2475 MHz  | 75      | 2476 MHz  |
| 76      | 2477 MHz  | 77      | 2478 MHz  | 78      | 2479 MHz  |
| 79      | 2480 MHz  | --      | --        | --      | --        |

**1.7. Antenna Details**

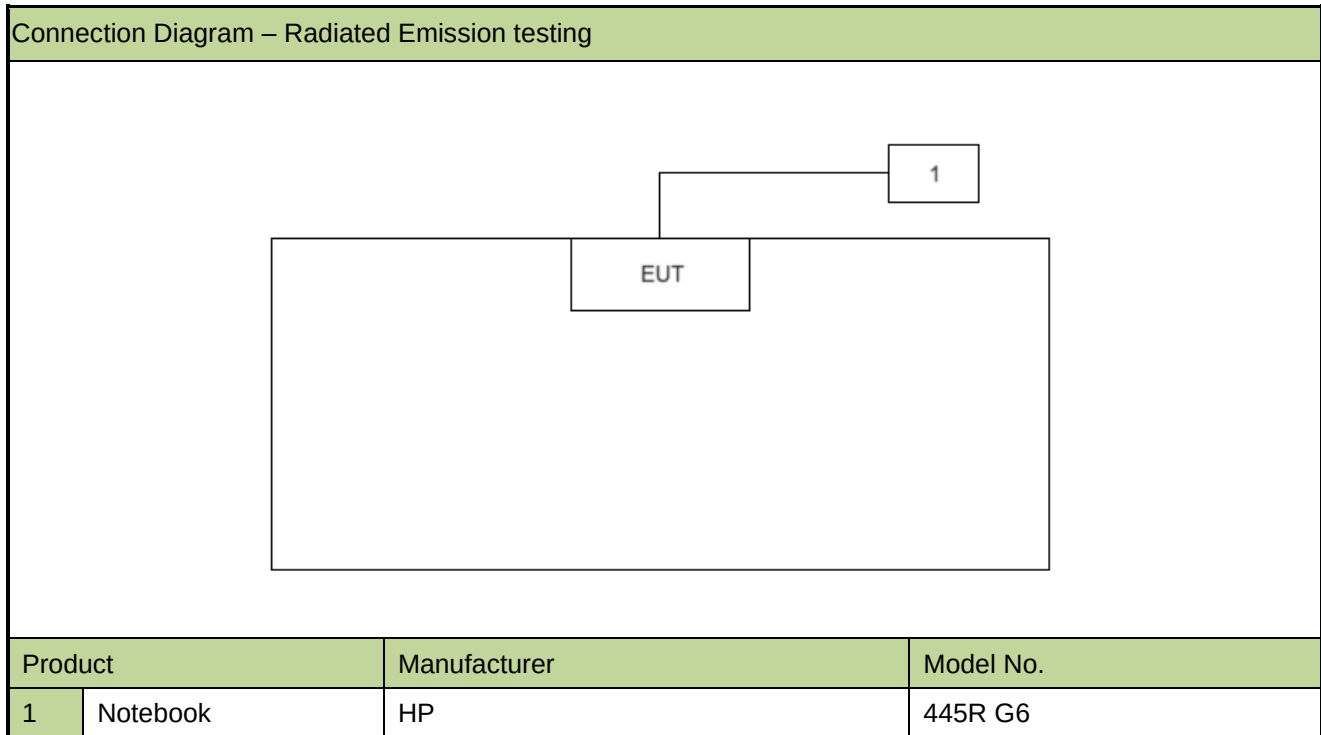
| Antenna Type        | Frequency Band<br>(GHz) | Tx Paths | Max Antenna Gain<br>(dBi) |
|---------------------|-------------------------|----------|---------------------------|
| Bluetooth Antenna   |                         |          |                           |
| Onboard PCB Antenna | 2402 ~ 2480             | 1        | -1.26                     |
| 2.4GHz SRD Antenna  |                         |          |                           |
| Onboard PCB Antenna | 2402 ~ 2480             | 1        | 2.88                      |



## 2. Test Configuration

### 2.1. Test System Connection Diagram

This device was tested per the guidance ANSI C63.10:2013 was used to reference the appropriate EUT setup for radiated emissions testing.



### 2.2. Test Software

The test utility software used during testing was “fcc\_test\_tool.exe”, and the version was “v2.2”.

### 2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.249
- ANSI C63.10-2013

### 2.4. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. 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 device is **permanently attached**.
- There are no provisions for connection to an external antenna.

#### **Conclusion:**

This unit complies with the requirement of §15.203.

#### 4. Measuring Instrument

| Instrument        | Manufacturer | Model No.   | Asset No.   | Cali. Interval | Cali. Due Date | Test Site |
|-------------------|--------------|-------------|-------------|----------------|----------------|-----------|
| Horn Antenna      | Schwarzbeck  | BBHA 9170   | MRTSUE06598 | 1 year         | 2023-11-05     | SIP-AC2   |
| Preamplifier      | EMCI         | EMC051845SE | MRTSUE06601 | 1 year         | 2023-11-22     | SIP-AC2   |
| Preamplifier      | EMCI         | EMC184045SE | MRTSUE06602 | 1 year         | 2023-10-10     | SIP-AC2   |
|                   |              |             |             | 1 year         | 2024-10-09     | SIP-AC2   |
| Signal Analyzer   | Keysight     | N9020B      | MRTSUE06604 | 1 year         | 2023-11-07     | SIP-AC2   |
| EMI Test Receiver | R&S          | ESR3        | MRTSUE06613 | 1 year         | 2024-05-23     | SIP-AC2   |
| Thermohygrometer  | testo        | 608-H1      | MRTSUE06622 | 1 year         | 2023-11-27     | SIP-AC2   |
| Thermohygrometer  | testo        | 608-H1      | MRTSUE06624 | 1 year         | 2023-11-27     | SIP-AC2   |
| Preamplifier      | EMCI         | EMC001330   | MRTSUE06643 | 1 year         | 2024-01-12     | SIP-AC2   |
| TRILOG Antenna    | Schwarzbeck  | VULB 9168   | MRTSUE06647 | 1 year         | 2024-06-17     | SIP-AC2   |
| Horn Antenna      | Schwarzbeck  | BBHA 9120D  | MRTSUE06648 | 1 year         | 2023-10-22     | SIP-AC2   |
| Anechoic Chamber  | RIKEN        | SIP-AC2     | MRTSUE06781 | 1 year         | 2023-12-22     | SIP-AC2   |
| Loop Antenna      | Schwarzbeck  | FMZB 1519 B | MRTSUE06937 | 1 year         | 2024-02-26     | SIP-AC2   |

| Software             | Version | Function               |
|----------------------|---------|------------------------|
| EMI V3               | V 3.0.0 | EMI Test Software      |
| Controller_MF 7802BS | 1.02    | RE Antenna & turntable |

## 5. Measurement Uncertainty

### 5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.2. 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  $k = 2$ .

| AC Conducted Emission Measurement                                       |                      |
|-------------------------------------------------------------------------|----------------------|
| The maximum measurement uncertainty is evaluated as:                    |                      |
| 9kHz~150kHz:                                                            | 3.58dB               |
| 150kHz~30MHz:                                                           | 3.20dB               |
| Radiated Emission                                                       |                      |
| The maximum measurement uncertainty is evaluated as:                    |                      |
| Coaxial:                                                                | 9kHz~30MHz: 2.59dB   |
| Coplanar:                                                               | 9kHz~30MHz: 2.60dB   |
| Horizontal:                                                             | 30MHz~200MHz: 3.85dB |
|                                                                         | 200MHz~1GHz: 4.36dB  |
|                                                                         | 1GHz~40GHz: 4.98dB   |
| Vertical:                                                               | 30MHz~200MHz: 4.06dB |
|                                                                         | 200MHz~1GHz: 5.28dB  |
|                                                                         | 1GHz~40GHz: 4.91dB   |
| Occupied Bandwidth Measurement                                          |                      |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ): |                      |
| 3.2%                                                                    |                      |

## 6. Test Result

### 6.1. Summary

| FCC Section(s) | Test Description                      | Test Condition | Verdict |
|----------------|---------------------------------------|----------------|---------|
| 15.215(c)      | 20dB Bandwidth                        | Radiated       | Pass    |
| 15.249; 15.209 | Radiated Emission                     |                | Pass    |
| 15.207         | AC Conducted Emissions 150kHz - 30MHz | Line Conducted | N/A     |

#### Notes:

1. The radiation measurements are performed in X, Y, Z axis positioning. The test results shown in the following sections represent the worst-case emissions.
2. 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.
3. "N/A" means that this item is not applicable, and the detail information refer to relevant section.

## **6.2. 20dB Bandwidth Measurement**

### **6.2.1. Test Limit**

20 dB bandwidth of the emission is contained within the 2400 ~ 2483.5MHz.

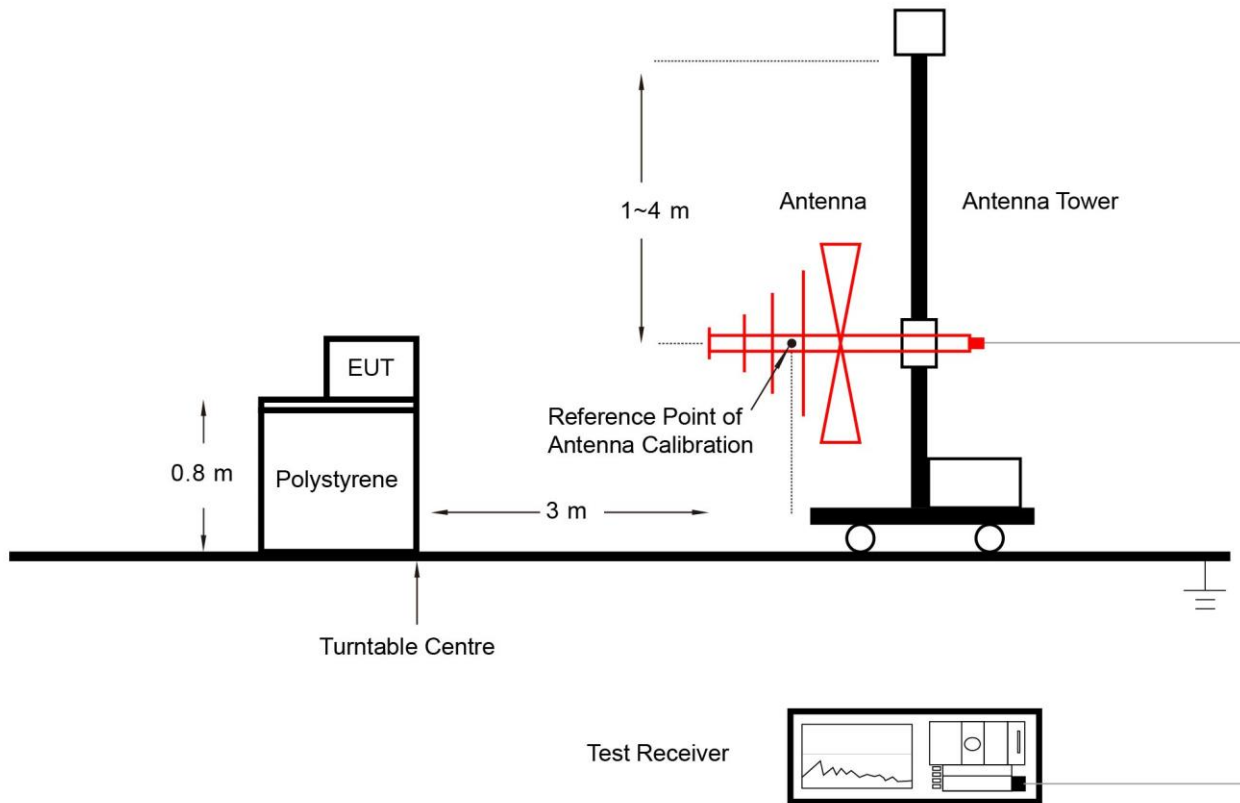
### **6.2.2. Test Procedure**

ANSI C63.10 - 2013 - Section 6.9.2

### **6.2.3. Test Setting**

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 20$
2. Set RBW = 1% to 5% of the OBW
3. VBW = Approximately three times RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

#### 6.2.4. Test Setup



#### 6.2.5. Test Result

Refer to Appendix A.1.

### 6.3. Radiated Emission Measurement

#### 6.3.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.249 |                                         |                                             |
|----------------------------------------|-----------------------------------------|---------------------------------------------|
| Fundamental Frequency<br>(MHz)         | Field Strength of Fundamental<br>(mV/m) | Field Strength of Harmonics<br>( $\mu$ V/m) |
| 902 ~ 908                              | 50                                      | 500                                         |
| 2400 ~ 2483.5                          | 50                                      | 500                                         |
| 5725 ~ 5875                            | 50                                      | 500                                         |
| 24000 ~ 24250                          | 250                                     | 2500                                        |

Note: FCC Part 15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 |                                |                               |
|----------------------------------------|--------------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[ $\mu$ V/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                             |

#### 6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)



**6.3.3. 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 |
| > 1000MHz     | 1MHz          |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated 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 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)**

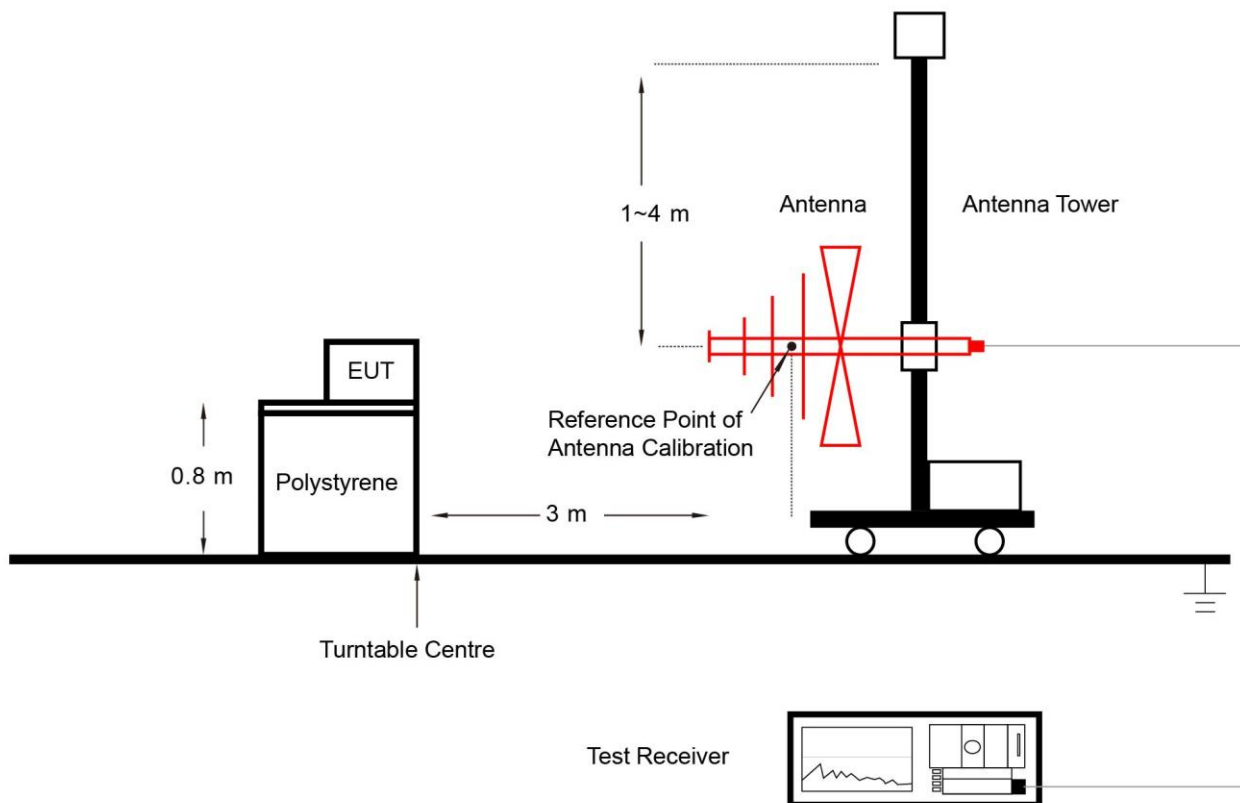
1. Analyzer center frequency was set to the frequency of the radiated emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.

If the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ . T is the minimum transmission duration.

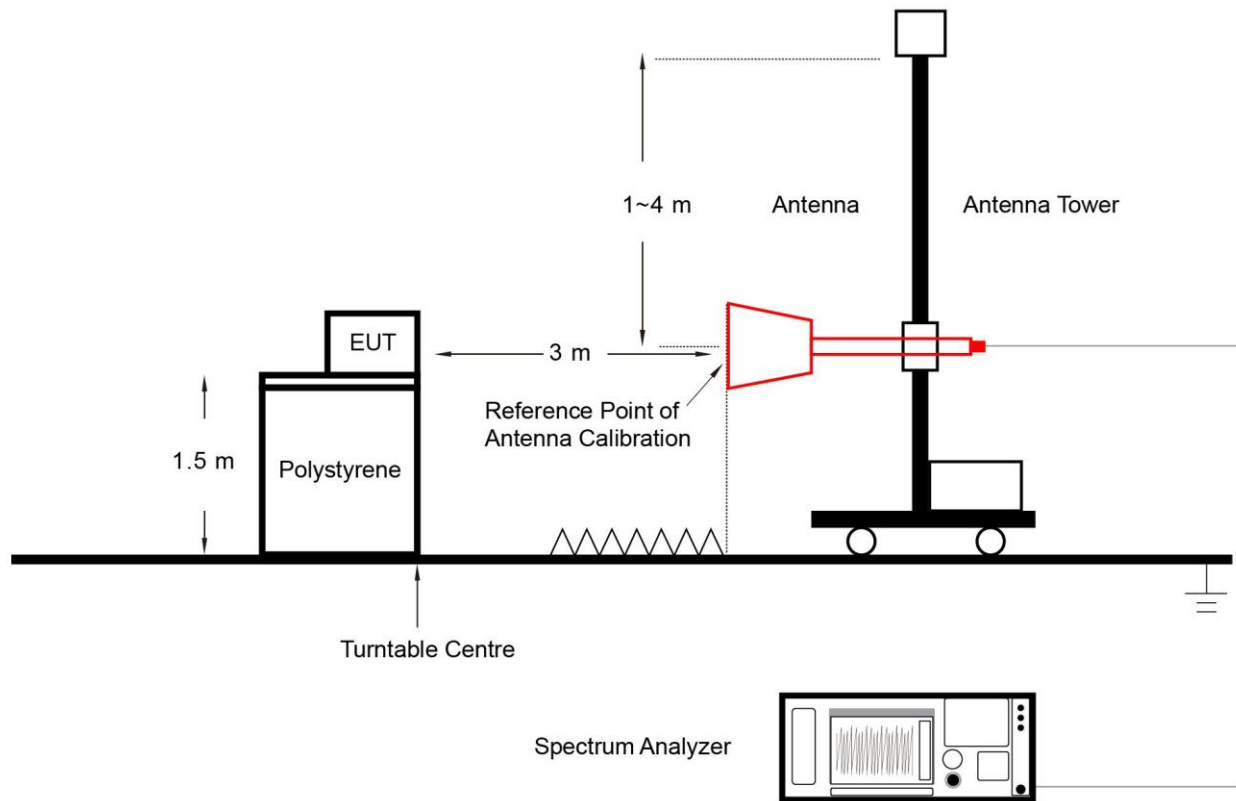
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### 6.3.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



### 6.3.5. Test Result

Refer to Appendix A.2.

## 6.4. AC Conducted Emissions Measurement

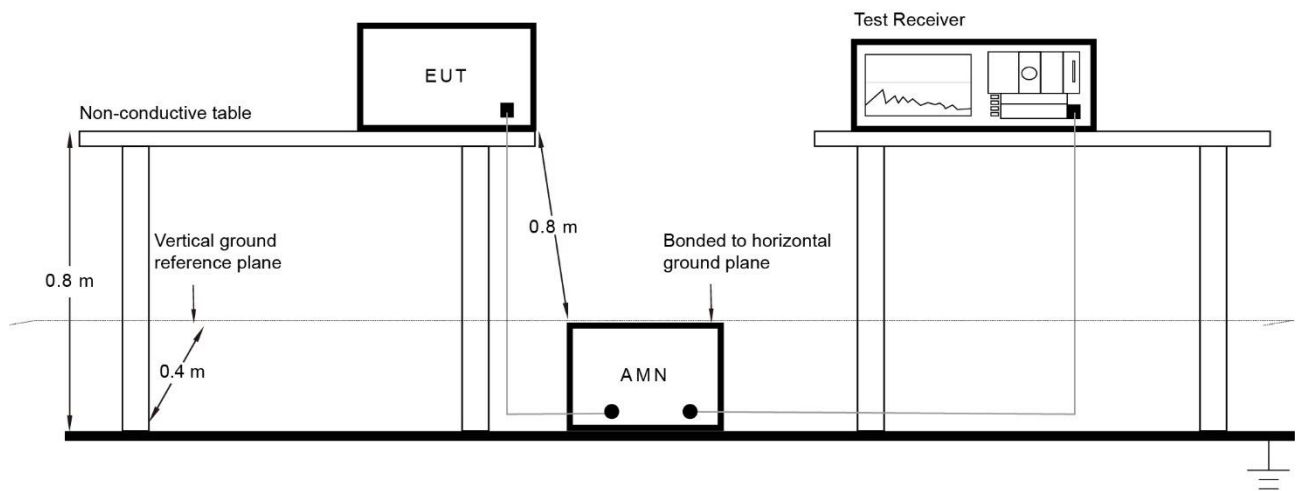
### 6.4.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |                 |                 |
|-----------------------------------------------|-----------------|-----------------|
| Frequency (MHz)                               | QP (dB $\mu$ V) | AV (dB $\mu$ V) |
| 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.

### 6.4.2. Test Setup



### 6.4.3. Test Result

The EUT is powered by battery, so this item is not applicable.

## Appendix A - Test Result

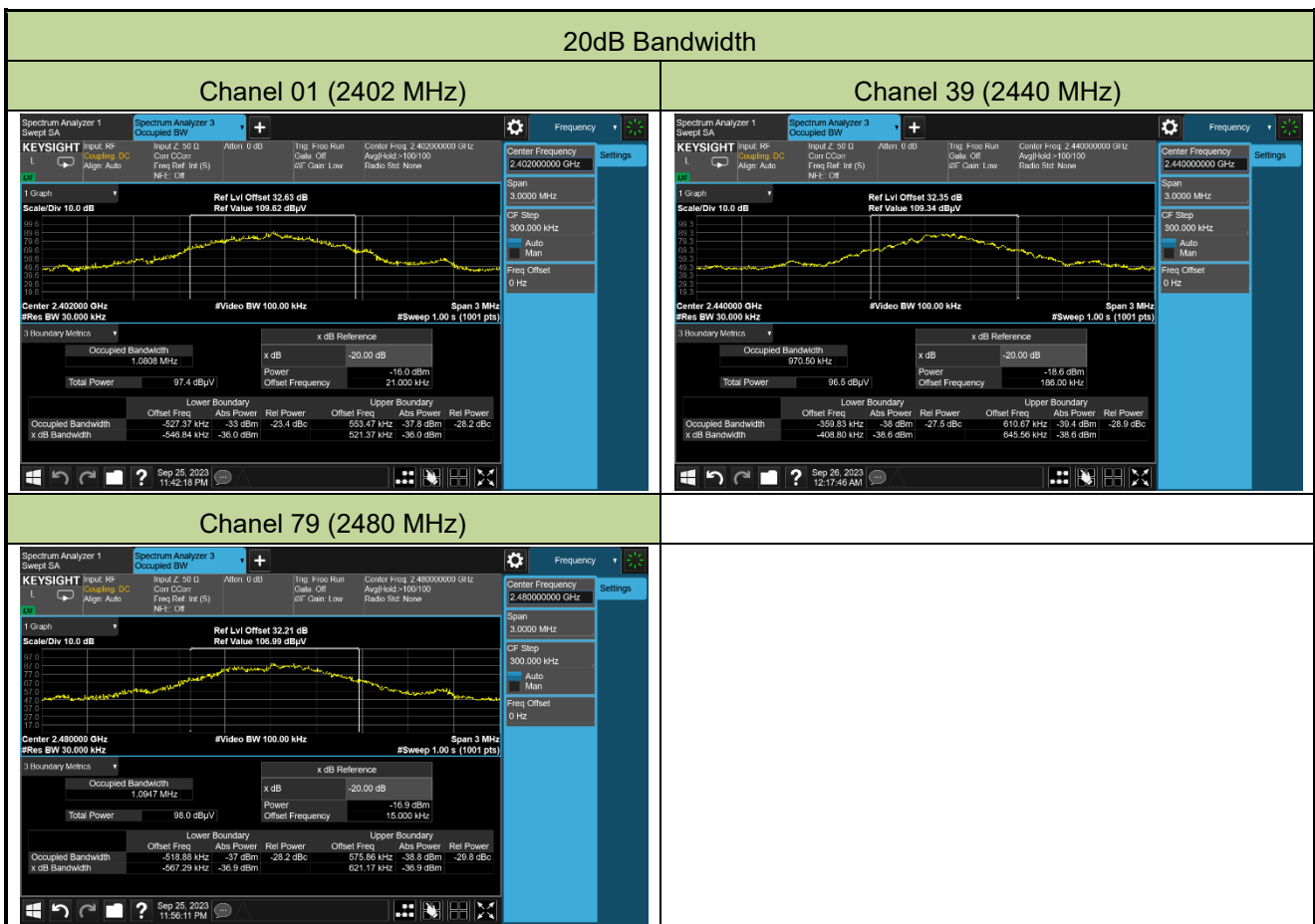
### A.1 20dB Bandwidth Test Result

|           |                         |               |            |
|-----------|-------------------------|---------------|------------|
| Test Site | SIP-AC2                 | Test Engineer | Arvin Ding |
| Test Date | 2023-09-25 ~ 2023-09-26 |               |            |

| Frequency (MHz) | 20dB Bandwidth (MHz) | F <sub>L</sub> (MHz) | F <sub>H</sub> (MHz) | Result |
|-----------------|----------------------|----------------------|----------------------|--------|
| 2402            | 1.06821              | 2401.45316           | 2402.52137           | Pass   |
| 2440            | 1.05436              | 2439.59120           | 2440.64556           | Pass   |
| 2480            | 1.18846              | 2479.43271           | 2480.62117           | Pass   |

Note: F<sub>L</sub> = Center Frequency (MHz) + Lower Boundary Offset Frequency (MHz)

F<sub>H</sub> = Center Frequency (MHz) + Upper Boundary Offset Frequency (MHz)



## A.2 Radiated Emission Test Result

|           |                                      |               |            |
|-----------|--------------------------------------|---------------|------------|
| Test Site | SIP-AC2                              | Test Engineer | Arvin Ding |
| Test Date | 2023-09-25 ~ 2023-10-12              |               |            |
| Remark:   | <b>Fundamental</b> Radiated Emission |               |            |

| Frequency<br>(MHz) | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|--------------------|-------------------------|------------------|---------------------------|-------------------|----------------|----------|--------------|
| 2402               | 60.6                    | 32.3             | 92.9                      | 114.0             | -21.1          | Peak     | Horizontal   |
|                    | 32.6                    | 32.3             | 64.9                      | 94.0              | -29.1          | Average  | Horizontal   |
|                    | 65.9                    | 32.3             | 98.2                      | 114.0             | -15.8          | Peak     | Vertical     |
|                    | 37.4                    | 32.3             | 69.7                      | 94.0              | -24.3          | Average  | Vertical     |
| 2440               | 55.1                    | 32.4             | 87.5                      | 114.0             | -26.5          | Peak     | Horizontal   |
|                    | 78.9                    | -13.6            | 65.3                      | 94.0              | -28.7          | Average  | Horizontal   |
|                    | 60.3                    | 32.4             | 92.7                      | 114.0             | -21.3          | Peak     | Vertical     |
|                    | 87.9                    | -13.6            | 74.3                      | 94.0              | -19.7          | Average  | Vertical     |
| 2480               | 60.8                    | 32.2             | 93.0                      | 114.0             | -21.0          | Peak     | Horizontal   |
|                    | 39.3                    | 32.2             | 71.5                      | 94.0              | -22.5          | Average  | Horizontal   |
|                    | 64.4                    | 32.2             | 96.6                      | 114.0             | -17.4          | Peak     | Vertical     |
|                    | 40.2                    | 32.2             | 72.4                      | 94.0              | -21.6          | Average  | Vertical     |

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

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

For 2440MHz, Average Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |                                                                                                                                                                                   |               |            |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|
| Test Site | SIP-AC2                                                                                                                                                                           | Test Engineer | Arvin Ding |
| Test Date | 2023-09-25                                                                                                                                                                        | Test Mode     | GFSK       |
| Remark:   | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |            |

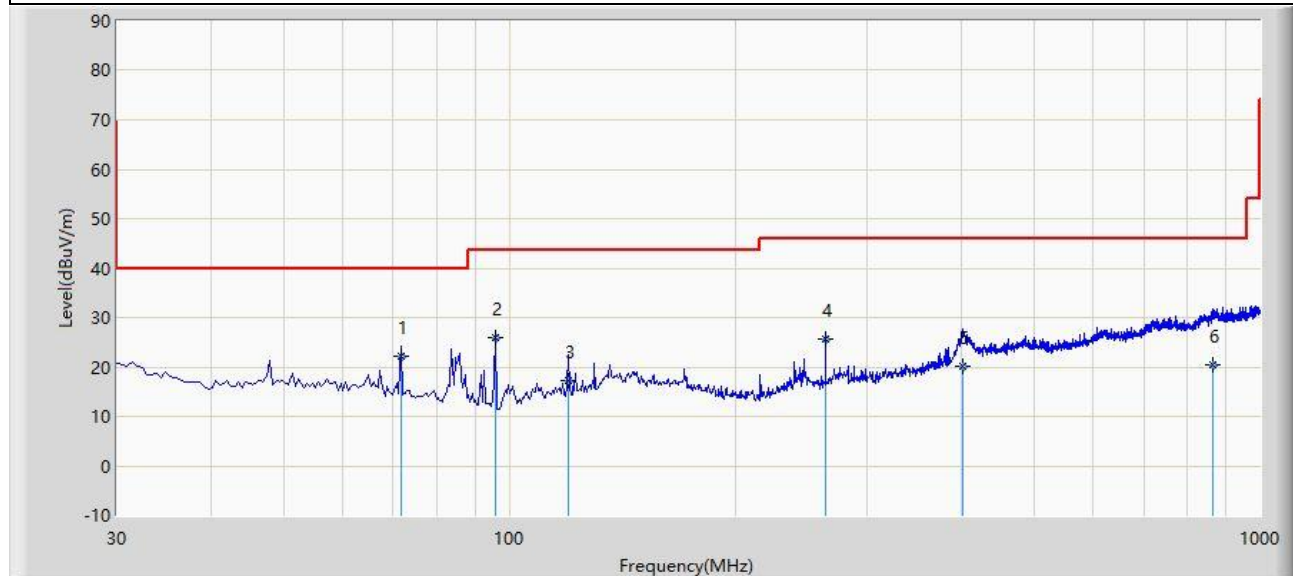
| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 00           | 3201.5          | 62.8                 | -11.6         | 51.2                   | 74.0           | -22.8       | Peak     | Horizontal   |
|              | 3201.5          | 58.6                 | -11.6         | 47.0                   | 54.0           | -7.0        | Average  | Horizontal   |
|              | 3380.0          | 62.0                 | -11.7         | 50.3                   | 74.0           | -23.7       | Peak     | Horizontal   |
|              | 3380.0          | 35.3                 | -11.7         | 23.6                   | 54.0           | -30.4       | Average  | Horizontal   |
|              | 18000.0         | 36.9                 | 20.4          | 57.3                   | 74.0           | -16.7       | Peak     | Horizontal   |
|              | 18000.0         | 24.6                 | 20.4          | 45.0                   | 54.0           | -9.0        | Average  | Horizontal   |
|              | 3201.5          | 68.1                 | -11.6         | 56.5                   | 74.0           | -17.5       | Peak     | Vertical     |
|              | 3201.5          | 58.9                 | -11.6         | 47.3                   | 54.0           | -6.7        | Average  | Vertical     |
|              | 14557.5         | 38.1                 | 11.6          | 49.7                   | 74.0           | -24.3       | Peak     | Vertical     |
|              | 18000.0         | 36.6                 | 20.4          | 57.0                   | 74.0           | -17.0       | Peak     | Vertical     |
|              | 18000.0         | 24.9                 | 20.4          | 45.3                   | 54.0           | -8.7        | Average  | Vertical     |
| 19           | 3252.5          | 66.7                 | -11.6         | 55.1                   | 74.0           | -18.9       | Peak     | Horizontal   |
|              | 3252.5          | 56.5                 | -11.6         | 44.9                   | 54.0           | -9.1        | Average  | Horizontal   |
|              | 14549.0         | 38.1                 | 11.5          | 49.6                   | 74.0           | -24.4       | Peak     | Horizontal   |
|              | 17940.5         | 36.9                 | 19.8          | 56.7                   | 74.0           | -17.3       | Peak     | Horizontal   |
|              | 17940.5         | 24.0                 | 19.8          | 43.8                   | 54.0           | -10.2       | Average  | Horizontal   |
|              | 3252.5          | 69.3                 | -11.6         | 57.7                   | 74.0           | -16.3       | Peak     | Vertical     |
|              | 3252.5          | 62.2                 | -11.6         | 50.6                   | 54.0           | -3.4        | Average  | Vertical     |
|              | 14557.5         | 37.9                 | 11.6          | 49.5                   | 74.0           | -24.5       | Peak     | Vertical     |
|              | 18000.0         | 36.4                 | 20.4          | 56.8                   | 74.0           | -17.2       | Peak     | Vertical     |
|              | 18000.0         | 24.0                 | 20.4          | 44.4                   | 54.0           | -9.6        | Average  | Vertical     |
|              |                 |                      |               |                        |                |             |          |              |
| 39           | 3303.5          | 63.2                 | -11.8         | 51.4                   | 74.0           | -22.6       | Peak     | Horizontal   |
|              | 3303.5          | 55.7                 | -11.8         | 43.9                   | 54.0           | -10.1       | Average  | Horizontal   |
|              | 7443.0          | 47.2                 | 2.2           | 49.4                   | 74.0           | -24.6       | Peak     | Horizontal   |
|              | 7443.0          | 34.8                 | 2.2           | 37.0                   | 54.0           | -17.0       | Average  | Horizontal   |
|              | 18000.0         | 37.2                 | 20.4          | 57.6                   | 74.0           | -16.4       | Peak     | Horizontal   |
|              | 18000.0         | 24.7                 | 20.4          | 45.1                   | 54.0           | -8.9        | Average  | Horizontal   |
|              | 3303.5          | 68.0                 | -11.8         | 56.2                   | 74.0           | -17.8       | Peak     | Vertical     |

|                                                                                                                                                                     |         |      |       |      |      |       |         |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------|------|------|-------|---------|----------|
|                                                                                                                                                                     | 3303.5  | 62.8 | -11.8 | 51.0 | 54.0 | -3.0  | Average | Vertical |
|                                                                                                                                                                     | 14710.5 | 38.5 | 12.0  | 50.5 | 74.0 | -23.5 | Peak    | Vertical |
|                                                                                                                                                                     | 18000.0 | 36.5 | 20.4  | 56.9 | 74.0 | -17.1 | Peak    | Vertical |
|                                                                                                                                                                     | 18000.0 | 24.0 | 20.4  | 44.4 | 54.0 | -9.6  | Average | Vertical |
| <p>Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)</p> <p>Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)</p> |         |      |       |      |      |       |         |          |



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

|                                              |                       |
|----------------------------------------------|-----------------------|
| Site: SIP-AC2                                | Test Date: 2023-09-27 |
| Limit: FCC_Part15.249_RSE(3m)                | Engineer: Arvin Ding  |
| Probe: VULB 9168_00998_25-2000MHz            | Polarity: Horizontal  |
| EUT: Segway Gokart Game Kit                  | Power: By Computer    |
| <b>Test Mode:</b> Transmit by SRD at 2480MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 71.710          | 22.200                 | 6.300                | -17.800     | 40.000         | 15.900        | QP   |
| 2  | *    | 95.982          | 25.822                 | 12.800               | -17.678     | 43.500         | 13.022        | QP   |
| 3  |      | 120.002         | 17.208                 | 1.300                | -26.292     | 43.500         | 15.908        | QP   |
| 4  |      | 263.770         | 25.582                 | 8.200                | -20.418     | 46.000         | 17.381        | QP   |
| 5  |      | 402.584         | 20.192                 | -1.100               | -25.808     | 46.000         | 21.293        | QP   |
| 6  |      | 866.140         | 20.427                 | -9.800               | -25.573     | 46.000         | 30.227        | QP   |

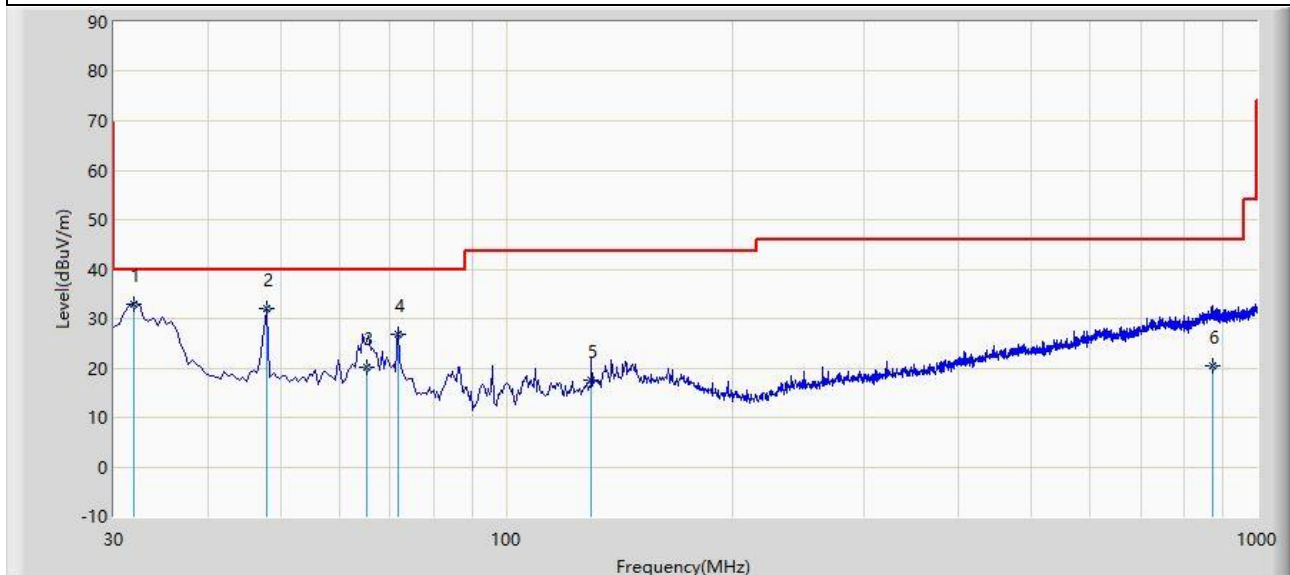
Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

|                                              |                       |
|----------------------------------------------|-----------------------|
| Site: SIP-AC2                                | Test Date: 2023-09-27 |
| Limit: FCC_Part15.249_RSE(3m)                | Engineer: Arvin Ding  |
| Probe: VULB 9168_00998_25-2000MHz            | Polarity: Vertical    |
| EUT: Segway Gokart Game Kit                  | Power: By Computer    |
| <b>Test Mode:</b> Transmit by SRD at 2480MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 31.940          | 32.903                 | 16.000               | -7.097      | 40.000         | 16.902        | QP   |
| 2  |      | 47.945          | 31.969                 | 13.500               | -8.031      | 40.000         | 18.469        | QP   |
| 3  |      | 65.032          | 20.157                 | 3.200                | -19.843     | 40.000         | 16.957        | QP   |
| 4  |      | 71.710          | 26.900                 | 11.000               | -13.100     | 40.000         | 15.900        | QP   |
| 5  |      | 129.954         | 17.532                 | 0.600                | -25.968     | 43.500         | 16.932        | QP   |
| 6  |      | 872.236         | 20.469                 | -9.800               | -25.531     | 46.000         | 30.270        | QP   |

Note 1: " \* ", means this data is the worst emission level.

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

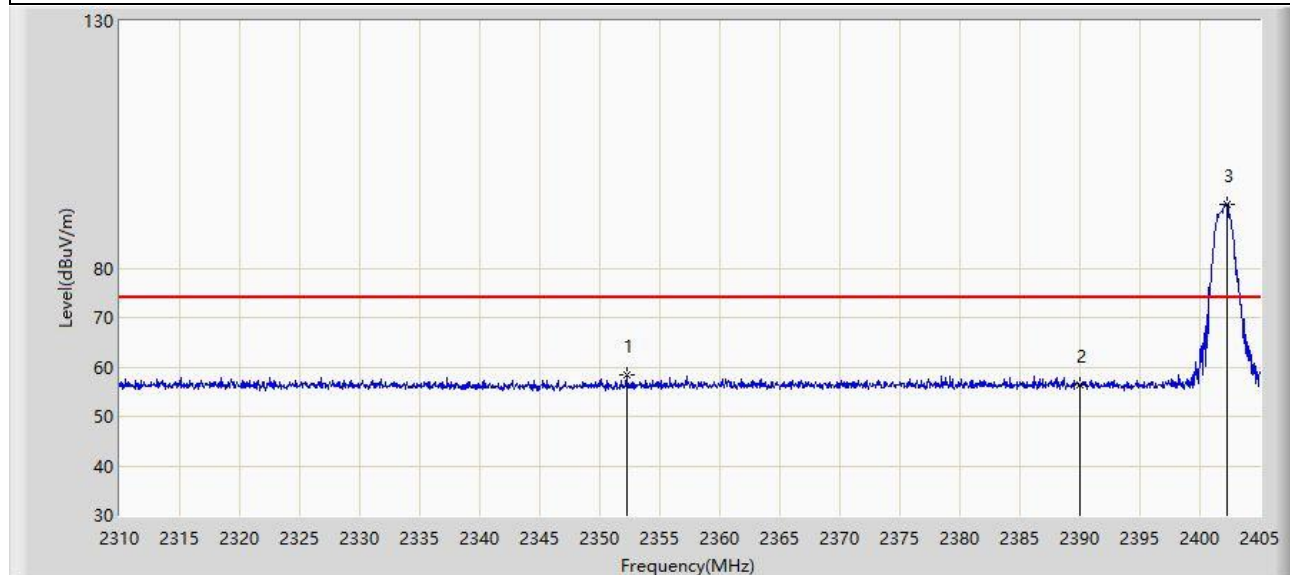
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) 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.

## Radiated Restricted Band Edge Test Result

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Horizontal  |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2402MHz |                       |



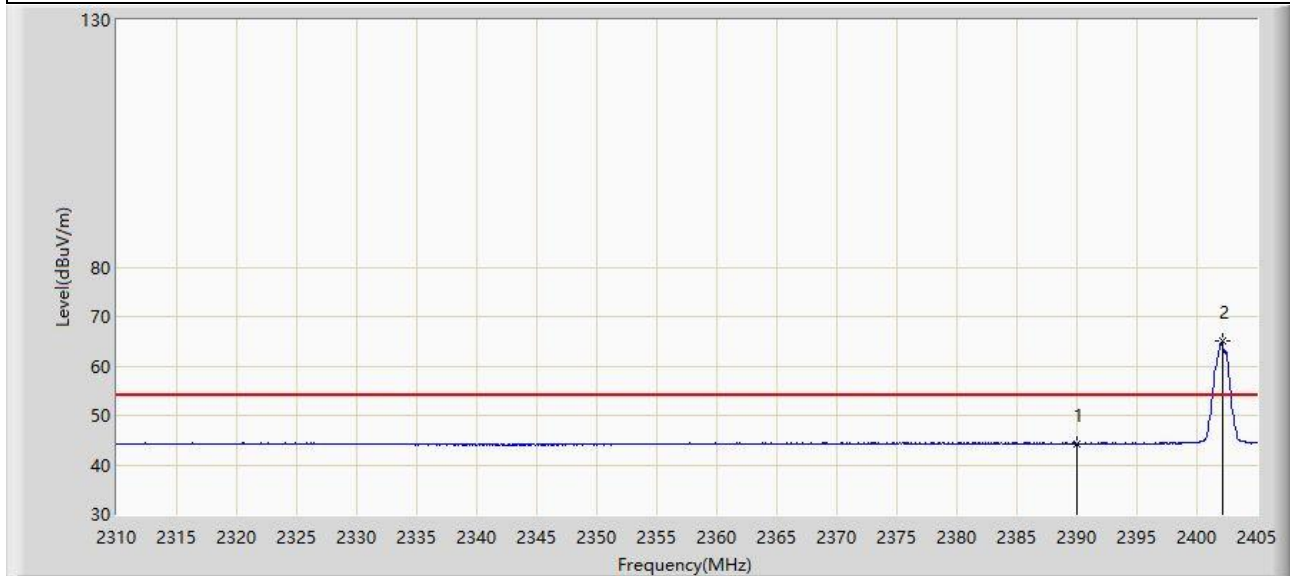
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 2352.228        | 58.385                 | 25.980               | -15.615     | 74.000         | 32.405        | PK   |
| 2  |      | 2390.000        | 56.335                 | 23.952               | -17.665     | 74.000         | 32.382        | PK   |
| 3  |      | 2402.292        | 92.991                 | 60.644               | N/A         | N/A            | 32.346        | PK   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Horizontal  |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2402MHz |                       |



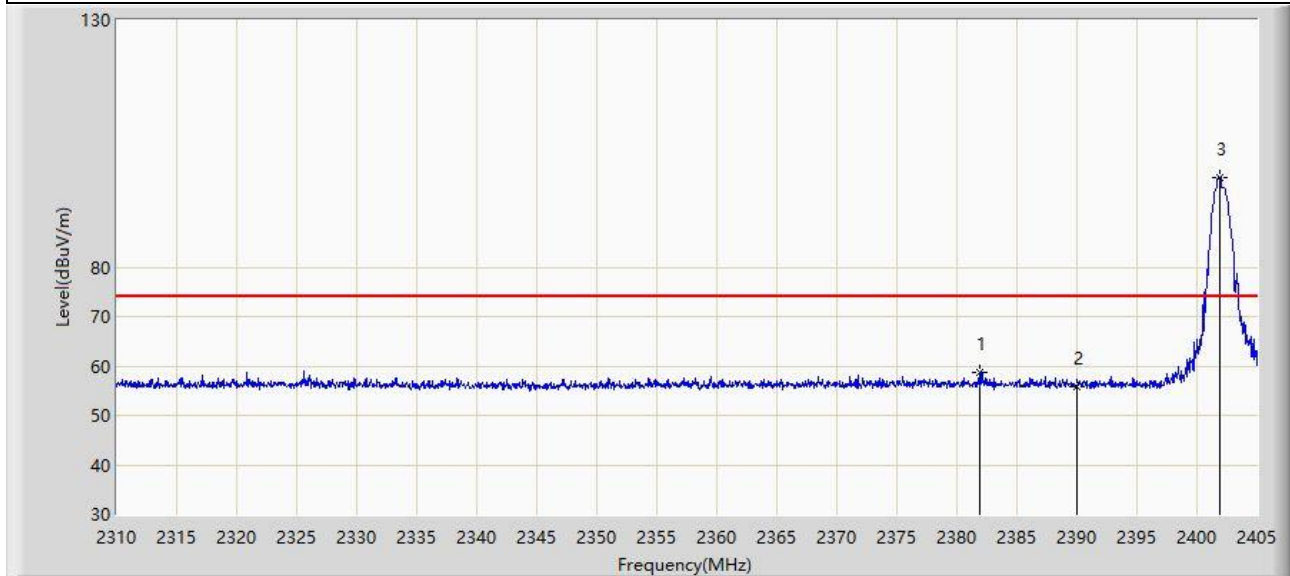
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 2390.000        | 44.306                 | 11.923               | -9.694      | 54.000         | 32.382        | AV   |
| 2  |      | 2402.150        | 64.992                 | 32.645               | N/A         | N/A            | 32.347        | AV   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Vertical    |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2402MHz |                       |



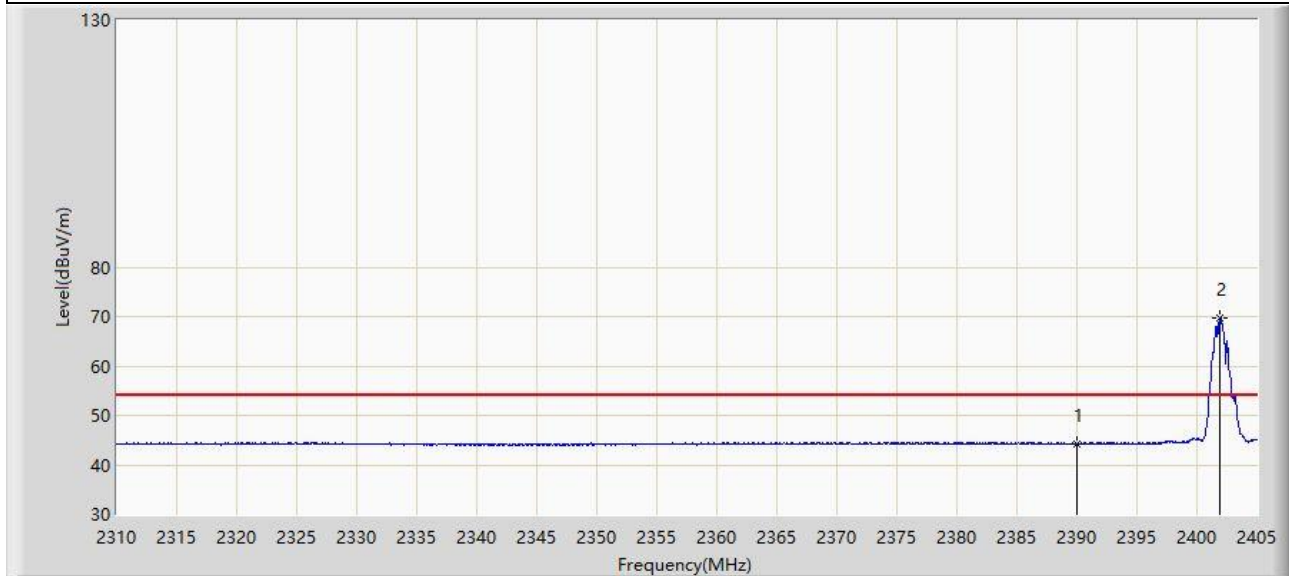
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 2381.915        | 58.798                 | 26.370               | -15.202     | 74.000         | 32.429        | PK   |
| 2  |      | 2390.000        | 55.859                 | 23.476               | -18.141     | 74.000         | 32.382        | PK   |
| 3  |      | 2401.913        | 98.203                 | 65.856               | N/A         | N/A            | 32.347        | PK   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Vertical    |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2402MHz |                       |



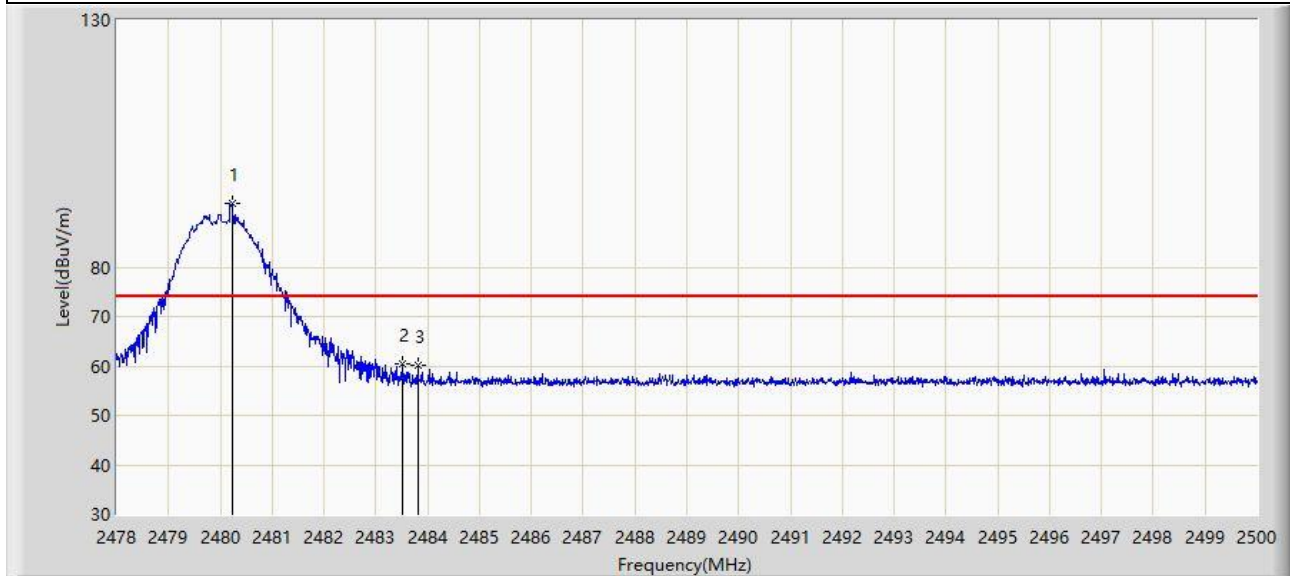
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 2390.000        | 44.320                 | 11.937               | -9.680      | 54.000         | 32.382        | AV   |
| 2  |      | 2401.913        | 69.742                 | 37.395               | N/A         | N/A            | 32.347        | AV   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Horizontal  |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2480MHz |                       |



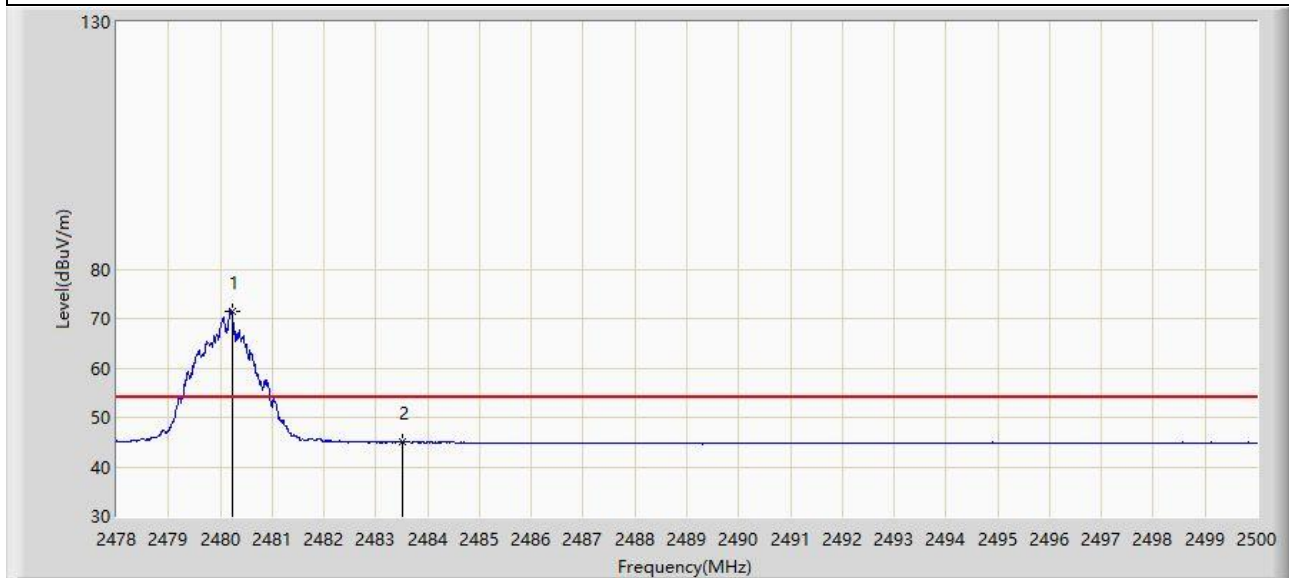
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 2480.233        | 92.997                 | 60.785               | N/A         | N/A            | 32.211        | PK   |
| 2  | *    | 2483.500        | 60.321                 | 28.098               | -13.679     | 74.000         | 32.222        | PK   |
| 3  |      | 2483.808        | 60.056                 | 27.832               | -13.944     | 74.000         | 32.224        | PK   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Horizontal  |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2480MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 2480.222        | 71.465                 | 39.253               | N/A         | N/A            | 32.211        | AV   |
| 2  | *    | 2483.500        | 45.022                 | 12.799               | -8.978      | 54.000         | 32.222        | AV   |

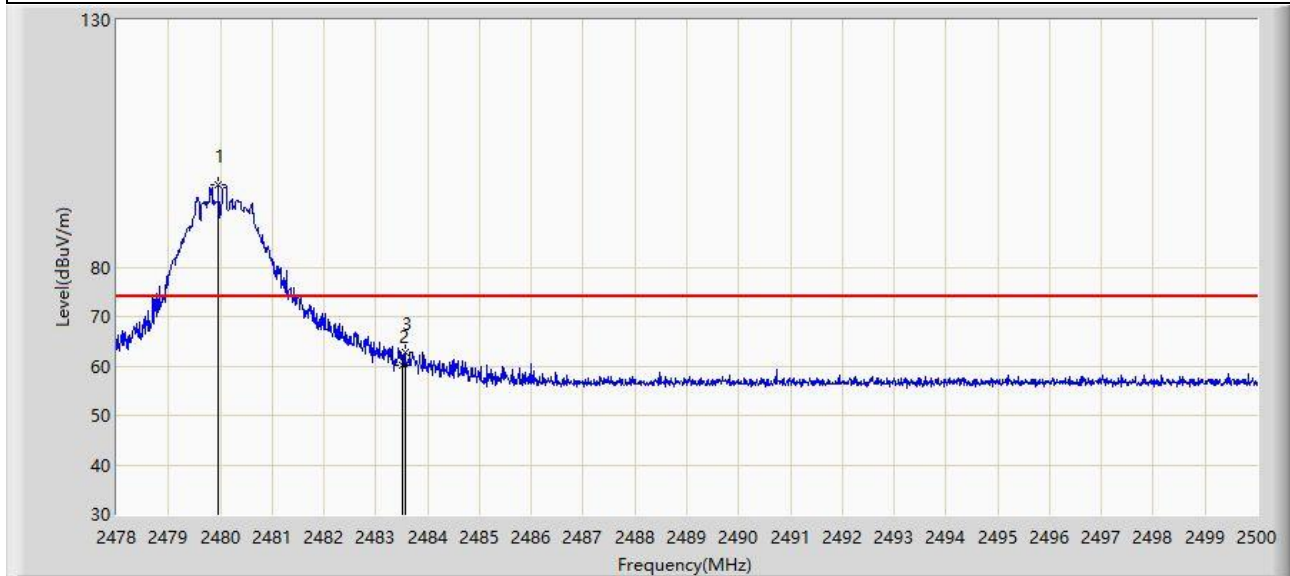
Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).



|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Vertical    |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2480MHz |                       |



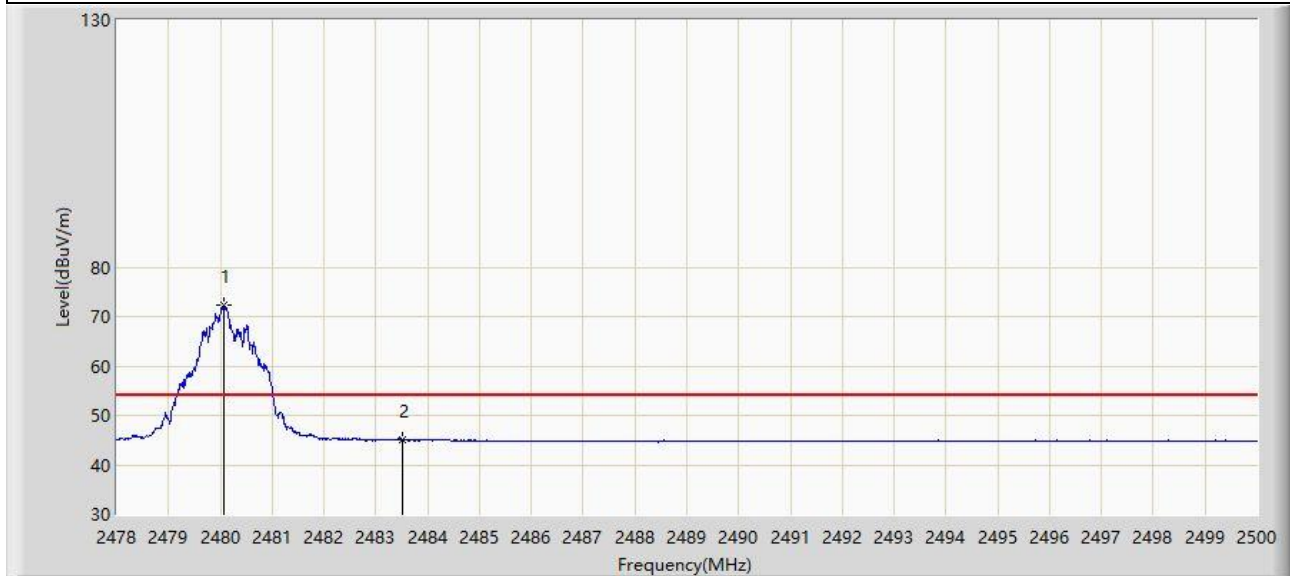
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 2479.958        | 96.641                 | 64.430               | N/A         | N/A            | 32.211        | PK   |
| 2  |      | 2483.500        | 60.038                 | 27.815               | -13.962     | 74.000         | 32.222        | PK   |
| 3  | *    | 2483.566        | 62.675                 | 30.452               | -11.325     | 74.000         | 32.223        | PK   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

|                                       |                       |
|---------------------------------------|-----------------------|
| Site: SIP-AC2                         | Test Date: 2023-09-25 |
| Limit: FCC_2.4G_RE(3m)                | Engineer: Arvin Ding  |
| Probe: BBHA 9120D_02042_1-18GHz       | Polarity: Vertical    |
| EUT: Segway Gokart Game Kit           | Power: By Computer    |
| Test Mode: Transmit by SRD at 2480MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 2480.079        | 72.381                 | 40.170               | N/A         | N/A            | 32.212        | AV   |
| 2  | *    | 2483.500        | 45.118                 | 12.895               | -8.882      | 54.000         | 32.222        | AV   |

Note 1: " \* ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

## **Appendix B - Test Setup Photograph**

Refer to “2306RSU045-UT” file.

## **Appendix C - EUT Photograph**

Refer to “2306RSU045-UE” file.