

RF MEASUREMENT REPORT

FCC ID: 2BAXN-MR0003
Applicant: Willand (Beijing) Technology Co., LTD.
Product: Navimow
Model No.: i110N, i105N
Brand Name: Segway
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2023-09-08
Test Date: 2023-09-23 ~ 2023-11-01

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.

Revision History

| Report No. | Version | Description | Issue Date | Note |
|---------------|---------|----------------|------------|-------|
| 2309RSU022-U1 | V01 | Initial Report | 2023-12-01 | Valid |
| | | | | |

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1. General Information

1.1. Applicant

Willand (Beijing) Technology Co., LTD.

Room 203, A1 Bldg. Zhongguancun Dongsheng Technology Park (Northern Territory), No. 66, Xixiaokou Rd, Haidian Dist., Beijing, China.

1.2. Manufacturer

Navimow B.V.

Dynamostraat 7, 1014 BN Amsterdam, The Netherlands

1.3. Testing Facility

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

1.4. Product Information

| | |
|--|--|
| Product Name | Navimow |
| Model No. | i110N, i105N |
| EUT Identification No. | 20230908Sample#18 |
| Wi-Fi Specification | 802.11b/g/n |
| Bluetooth Version | BLE (1Mbps only) |
| SRD Specification | 915.05 ~ 917.9MHz |
| GNSS Specification | BDS, Galileo, GLONASS, GPS |
| Antenna Information | Refer to selection 1.5 |
| Power Type | By Lithium-ion battery |
| Accessories | |
| Charging Station | Product Name: Navimow Charging Station Model No.: i1C00G Input: 32V = 2.5A MAX Output: 25.2V = 2.5A MAX |
| Adapter | Model No.: NBW32D002D5N-US Input: 100 ~ 240V, 50/60Hz, 2.0A MAX Output: 32.0V = 2.5A, 80.0W |
| Navimow Access+ | Model: i1101N Power Type: 5VDC, 2A Contains FCC ID: XMR201909EC25AFX Radio Specification: WCDMA Band 2/4/5; LTE Band 2/4/5/12/13/14/66/71 |
| Remark: 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2. The manufacturer states that the difference between model i110N and i105N is only the battery capacity. The manufacturer selected the model i110N with the largest battery capacity for testing. | |

1.5. Radio Specification under Test

| Bluetooth Specification | |
|-------------------------|---------------------|
| Frequency Range | 2402 ~ 2480MHz |
| Channel Number | 40 |
| Type of modulation | GFSK |
| Data Rate | 1Mbps |
| Antenna Type | Onboard PCB Antenna |
| Antenna Gain | -1.26 dBi |

1.6. Working Frequencies

| 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. Test Configuration

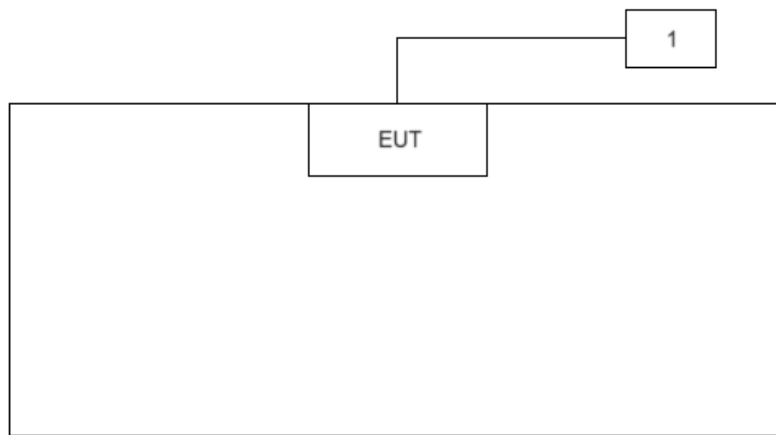
2.1. Test Mode

Mode 1: Transmit by BLE-1Mbps

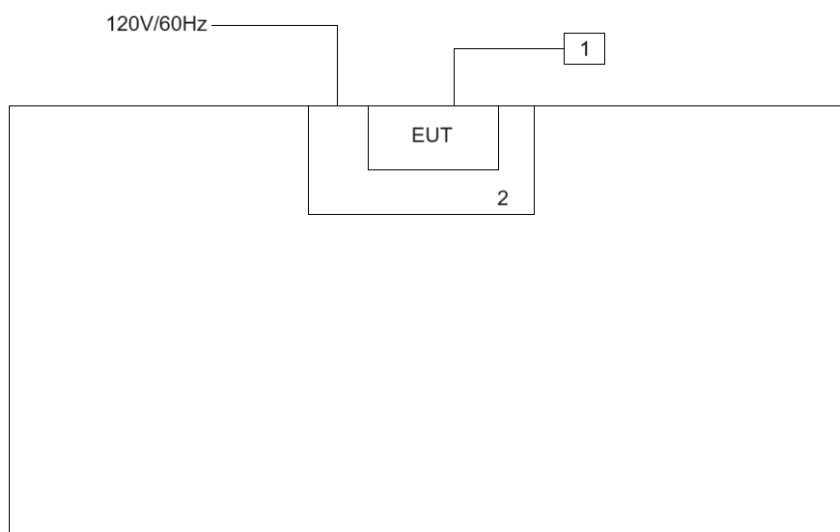
2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram - Radiated emissions testing



Connection Diagram - AC line conducted testing



| Product | Manufacturer | Model No. |
|------------------------------|--------------|-----------|
| 1 Notebook | HP | 445R G6 |
| 2 Navimow Charging Station | Navimow B.V. | i1C00G |

2.3. Test Software

The test utility software used during testing was “nRF_DTM.exe”, and the version was 0.9.1.

2.4. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.5. 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:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

| Instrument Name | Manufacturer | Model No. | Asset No. | Cali. Interval | Cal. Due Date | Test Site |
|---------------------|--------------|-------------|-------------|----------------|---------------|-----------|
| EMI Test Receiver | R&S | ESR3 | MRTSUE06185 | 1 year | 2023-12-28 | SIP-AC2 |
| Signal Analyzer | Keysight | N9010B | MRTSUE06559 | 1 year | 2024-05-23 | SIP-AC2 |
| 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 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06622 | 1 year | 2023-11-27 | SIP-AC2 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06624 | 1 year | 2023-11-27 | 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 |
| | | | | 1 year | 2024-10-21 | SIP-AC2 |
| Anechoic Chamber | RIKEN | SIP-AC2 | MRTSUE06781 | 1 year | 2023-12-22 | SIP-AC2 |
| Signal Analyzer | Keysight | N9010B | MRTSUE06603 | 1 year | 2023-10-25 | SIP-AC3 |
| | | | | 1 year | 2024-09-27 | SIP-AC3 |
| Horn Antenna | R&S | HF907 | MRTSUE06611 | 1 year | 2024-07-14 | SIP-AC3 |
| EMI Test Receiver | R&S | ESR3 | MRTSUE06613 | 1 year | 2024-05-23 | SIP-AC3 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06619 | 1 year | 2023-11-01 | SIP-AC3 |
| | | | | 1 year | 2024-10-28 | SIP-AC3 |
| Preamplifier | EMCI | EMC012645SE | MRTSUE06642 | 1 year | 2024-01-12 | SIP-AC3 |
| Preamplifier | EMCI | EMC001330 | MRTSUE06643 | 1 year | 2024-01-12 | SIP-AC3 |
| Anechoic Chamber | RIKEN | SIP-AC3 | MRTSUE06782 | 1 year | 2023-12-22 | SIP-AC3 |
| Loop Antenna | Schwarzbeck | FMZB 1519 B | MRTSUE06937 | 1 year | 2024-02-26 | SIP-AC3 |
| Thermohygrometer | testo | 608-H1 | MRTSUE11255 | 1 year | 2024-08-13 | SIP-AC3 |
| Signal Analyzer | Keysight | N9030B | MRTSUE06395 | 1 year | 2024-06-29 | SIP-TR1 |
| USB Power Sensor | Keysight | U2021XA | MRTSUE06596 | 1 year | 2024-07-31 | SIP-TR1 |
| Thermohygrometer | testo | 608-H1 | MRTSUE11022 | 1 year | 2023-11-01 | SIP-TR1 |
| | | | | 1 year | 2024-10-28 | SIP-TR1 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06003 | 1 year | 2024-05-23 | SIP-SR2 |
| EMI Test Receiver | R&S | ESR3 | MRTSUE06612 | 1 year | 2024-05-23 | SIP-SR2 |
| Four-Line V-Network | R&S | ENV432 | MRTSUE06614 | 1 year | 2023-11-27 | SIP-SR2 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06621 | 1 year | 2023-11-27 | SIP-SR2 |
| Shielding Room | MIX-BEP | SIP-SR2 | MRTSUE06949 | 5 years | 2024-10-23 | SIP-SR2 |

| Software | Version | Function |
|--|-------------|------------------------|
| EMI Software | V3.0.0 | EMI Test Software |
| Controller_MF 7802BS | 1.02 | RE Antenna & Turntable |
| Agilent Power Analyzer/Agilent Power Panel | V R03.09.00 | Power |

5. Decision Rules and 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 Measurement |
| The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB |
| Spurious Emissions, Conducted |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.2dB |
| Output Power |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.4dB |
| Power Spectrum Density |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.2dB |
| Occupied Bandwidth |
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.7% |

6. Test Result

6.1. Summary

| FCC Section(s) | Test Description | Test Condition | Verdict |
|------------------|--|----------------|---------|
| 15.247(a)(2) | 6dB Bandwidth | Conducted | Pass |
| 15.247(b)(3) | Output Power | | Pass |
| 15.247(e) | Power Spectral Density | | Pass |
| 15.247(d) | Band Edge / Out-of-Band Emissions | | Pass |
| 15.205 15.209 | General Field Strength (Restricted Bands and Radiated Emission) | Radiated | Pass |
| 15.207 | AC Conducted Emissions 150kHz - 30MHz | Line Conducted | Pass |

Note: 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.

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

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

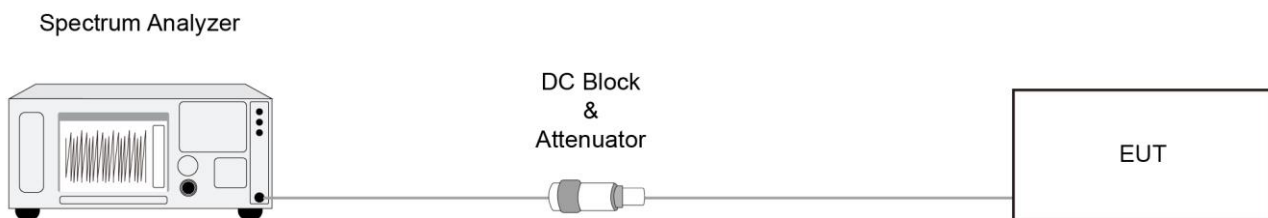
6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

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 to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

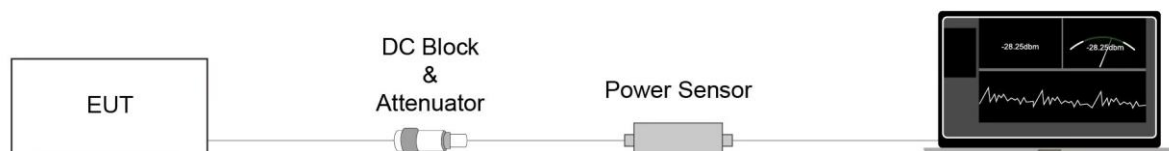
Method PKPM1 (Peak Power Measurement of Signals with DTS BW \leq 50MHz)

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.

Average Power Measurement

Average 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 power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. 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.

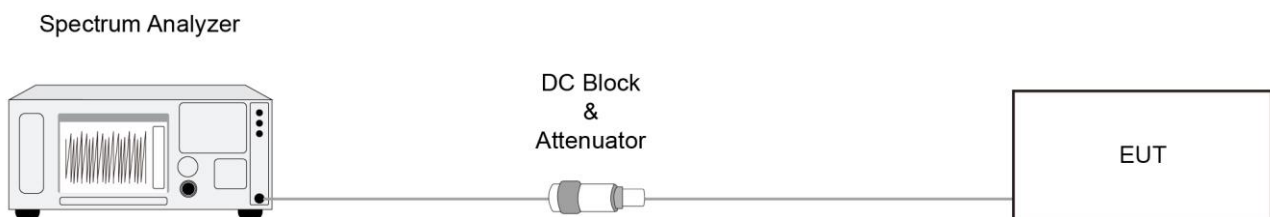
6.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

6.4.3. 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

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Conducted Band Edge and Out-of-Band Emissions Measurement

6.5.1. 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.

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

Reference level measurement

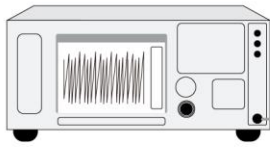
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

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

6.5.4. Test Setup

Spectrum Analyzer



DC Block
&
Attenuator



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission Measurement

6.6.1. 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 [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

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)

6.6.3. 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 |
| > 1000MHz | 1MHz |

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

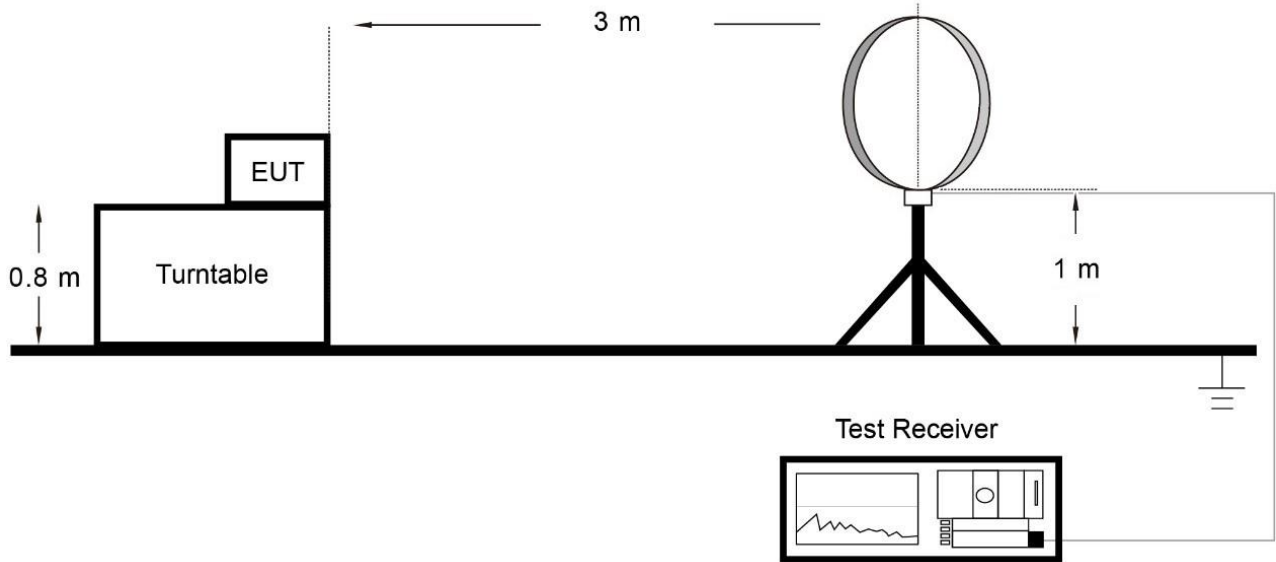
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

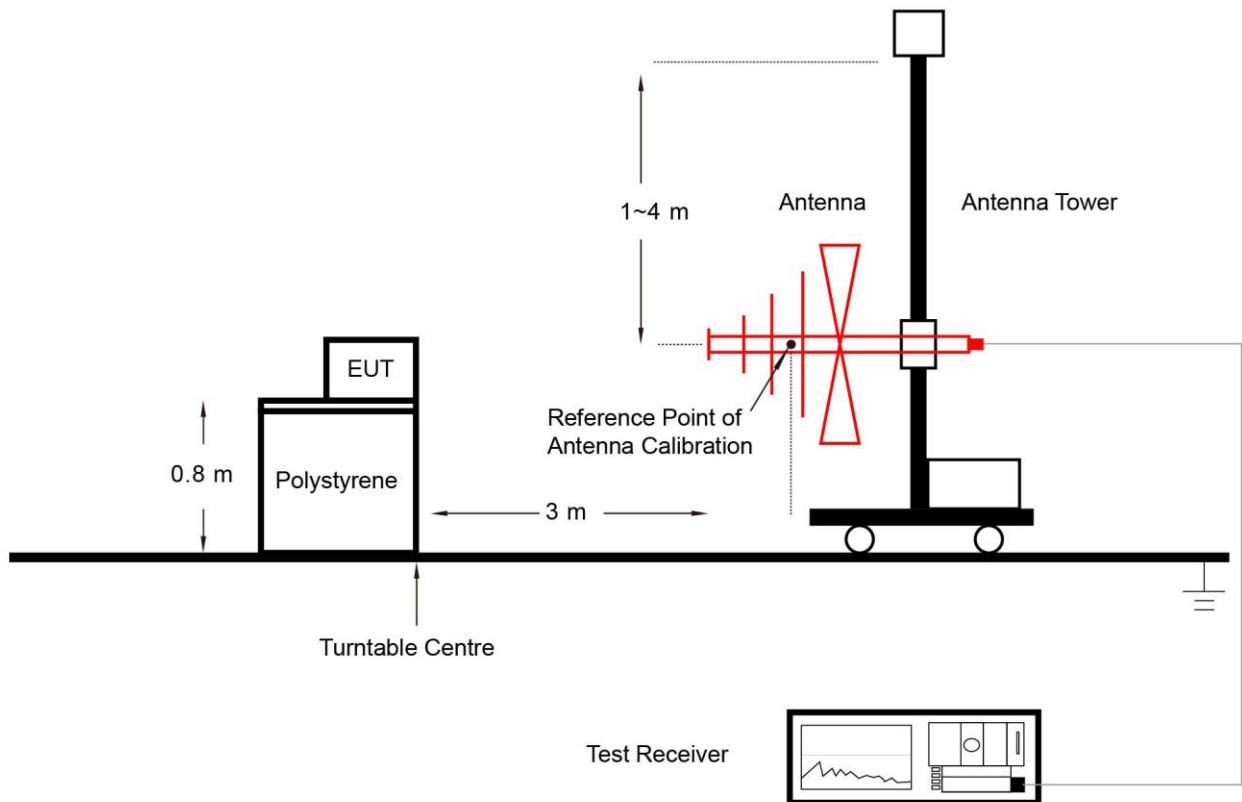
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4.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

6.6.4. Test Setup

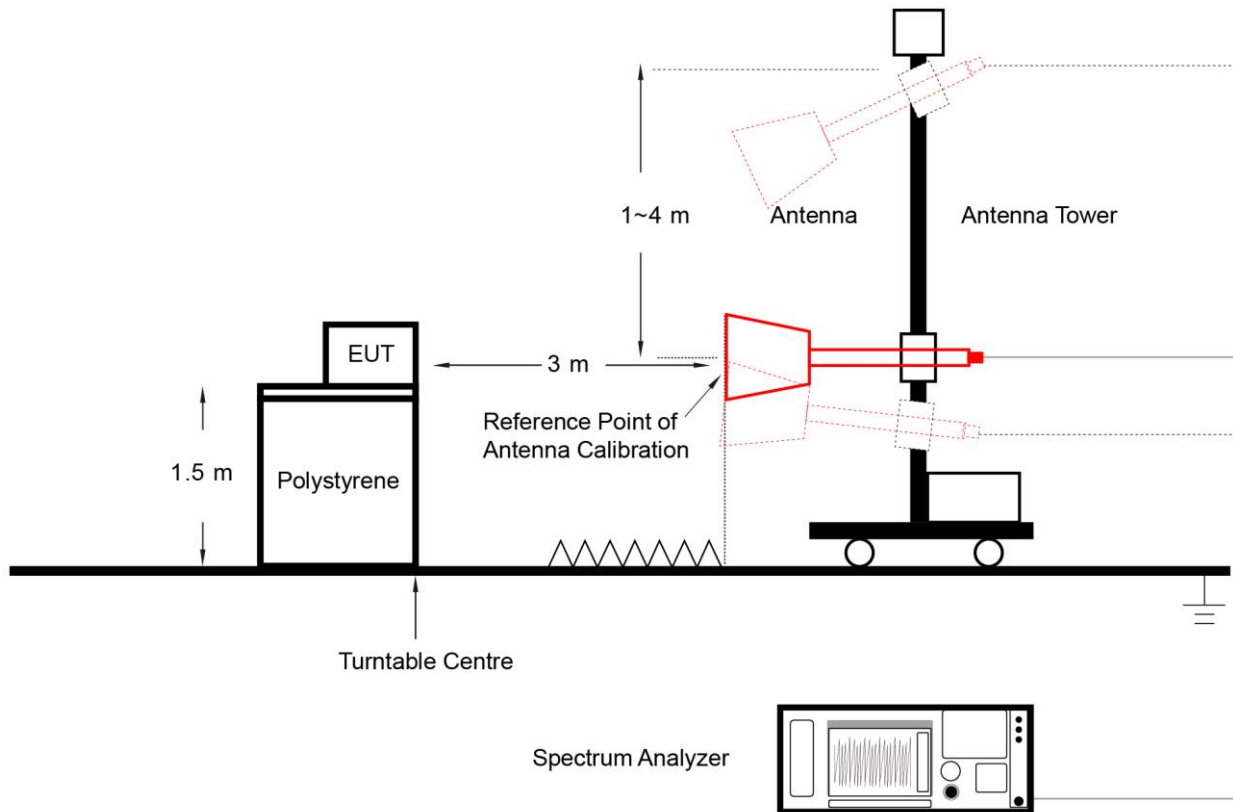
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

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

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

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

6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.7.3. Test Setting

Peak Field Strength Measurements

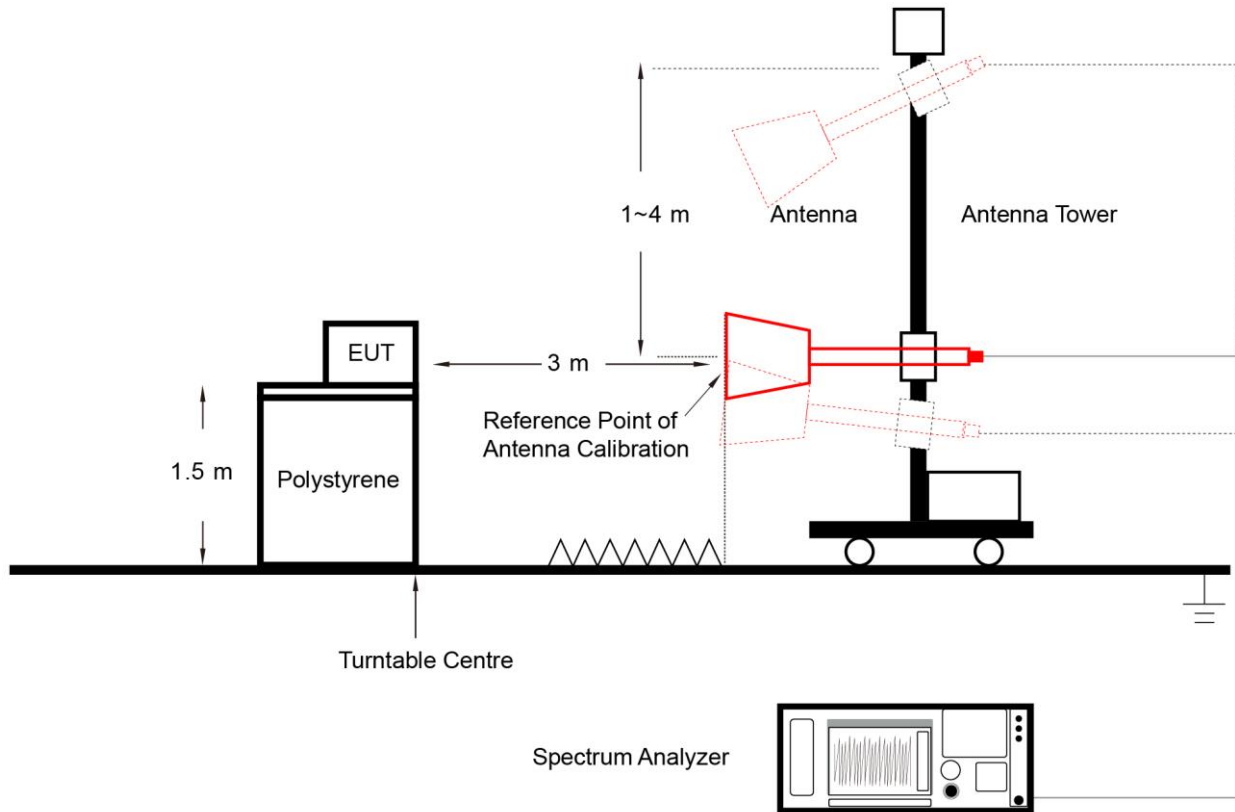
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

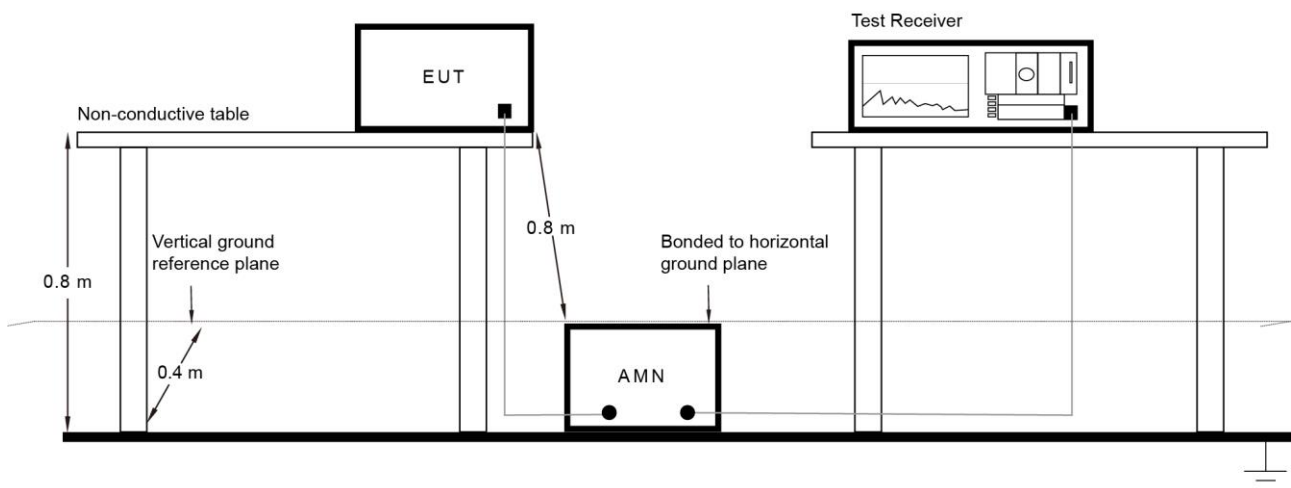
6.8.1. Test Limit

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

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

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

6.8.2. Test Setup



6.8.3. Test Result

Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

| | | | |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1 | Test Engineer | Alisa Deng |
| Test Date | 2023-10-30 | | |

| | |
|-----------|------------|
| Test Mode | Duty Cycle |
| BLE-1Mbps | 62.41% |

Duty Cycle (T = Transmission Duration)

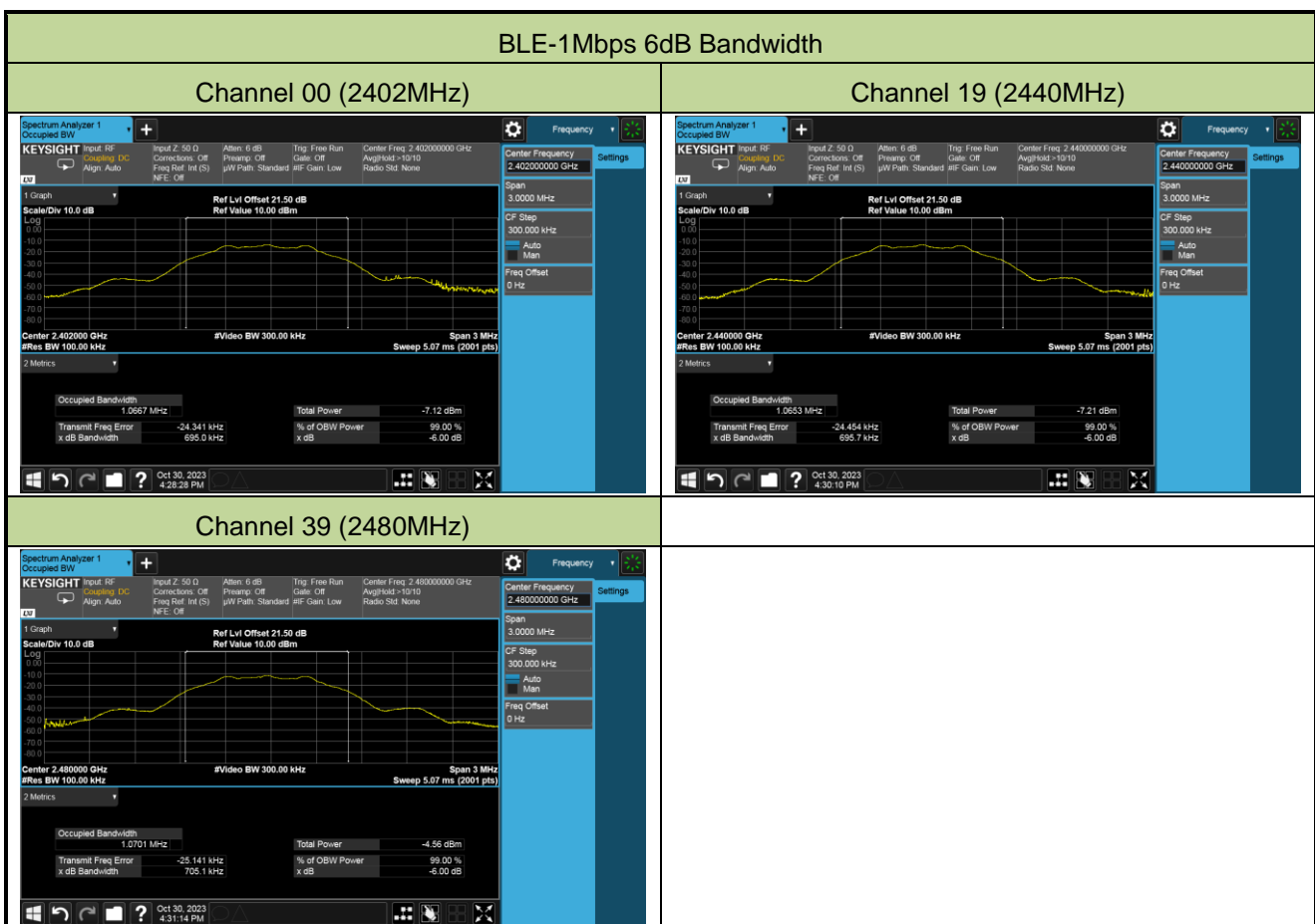
BLE-1Mbps (T = 389.5 μ s)



A.2 6dB Bandwidth Test Result

| | | | |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1 | Test Engineer | Alisa Deng |
| Test Date | 2023-10-30 | | |

| Test Mode | Data Rate | Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|-----------|-----------|-------------|-----------------|---------------------|-------------|
| BLE | 1Mbps | 00 | 2402 | 0.6950 | ≥ 0.5 |
| BLE | 1Mbps | 19 | 2440 | 0.6957 | ≥ 0.5 |
| BLE | 1Mbps | 39 | 2480 | 0.7051 | ≥ 0.5 |



A.3 Output Power Test Result

| | | | |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1 | Test Engineer | Alisa Deng |
| Test Date | 2023-10-30 | | |

Test Result of Peak Output Power

| Test Mode | Data Rate | Channel No. | Frequency (MHz) | Peak Power (dBm) | Limit (dBm) | Result |
|-----------|-----------|-------------|-----------------|------------------|-------------|--------|
| BLE | 1Mbps | 00 | 2402 | -10.55 | ≤ 30.00 | Pass |
| BLE | 1Mbps | 19 | 2440 | -10.24 | ≤ 30.00 | Pass |
| BLE | 1Mbps | 39 | 2480 | -8.92 | ≤ 30.00 | Pass |

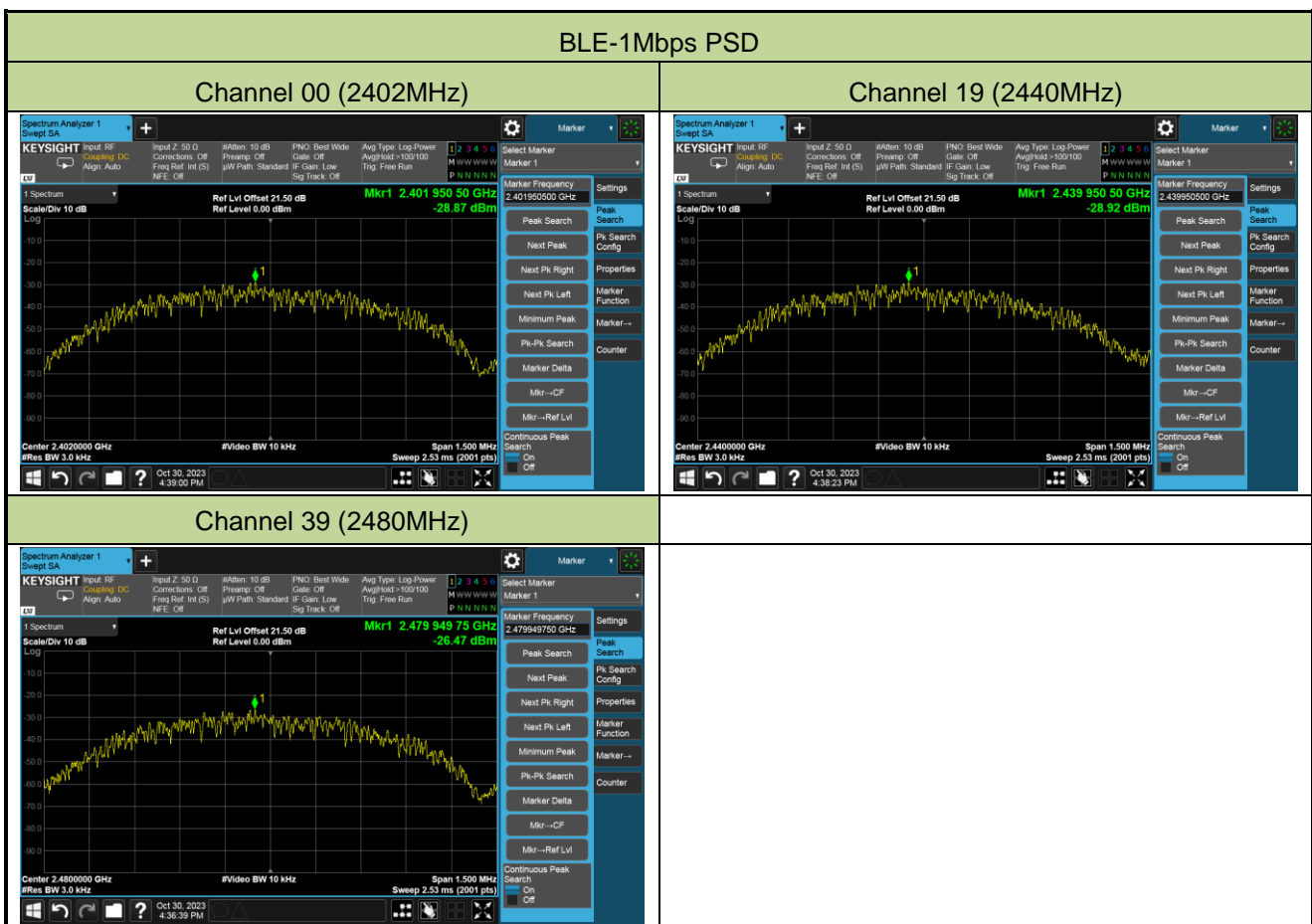
Test Result of Average Output Power (Reporting Only)

| Test Mode | Data Rate | Channel No. | Frequency (MHz) | Average Power (dBm) | Limit (dBm) | Result |
|-----------|-----------|-------------|-----------------|---------------------|-------------|--------|
| BLE | 1Mbps | 00 | 2402 | -13.66 | ≤ 30.00 | Pass |
| BLE | 1Mbps | 19 | 2440 | -13.05 | ≤ 30.00 | Pass |
| BLE | 1Mbps | 39 | 2480 | -10.84 | ≤ 30.00 | Pass |

A.4 Power Spectral Density Test Result

| | | | |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1 | Test Engineer | Alisa Deng |
| Test Date | 2023-10-30 | | |

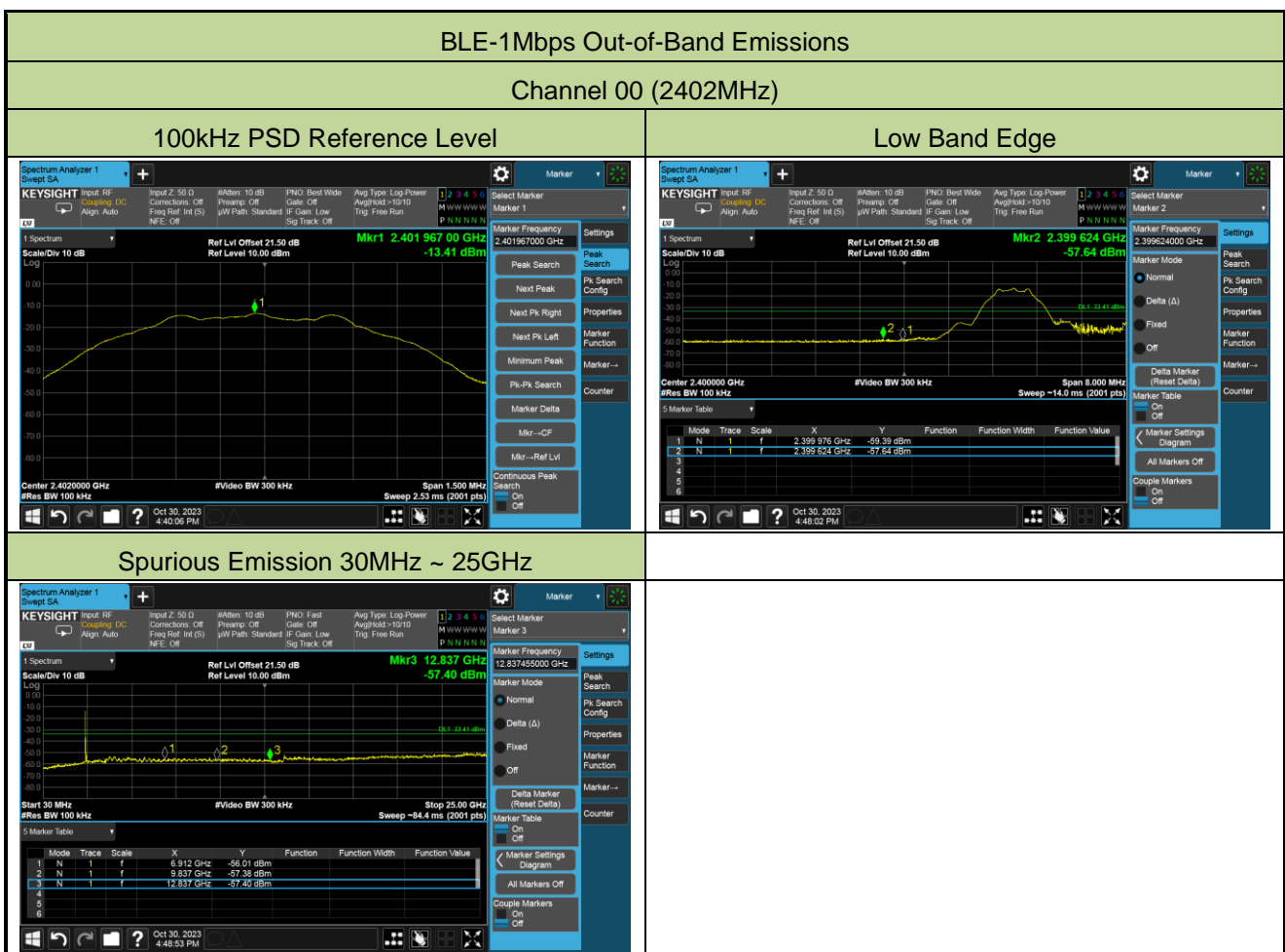
| Test Mode | Data Rate | Channel No. | Frequency (MHz) | PSD Result (dBm / 3kHz) | Limit (dBm / 3kHz) | Result |
|-----------|-----------|-------------|-----------------|-------------------------|--------------------|--------|
| BLE | 1Mbps | 00 | 2402 | -28.87 | ≤ 8.00 | Pass |
| BLE | 1Mbps | 19 | 2440 | -28.92 | ≤ 8.00 | Pass |
| BLE | 1Mbps | 39 | 2480 | -26.47 | ≤ 8.00 | Pass |



A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

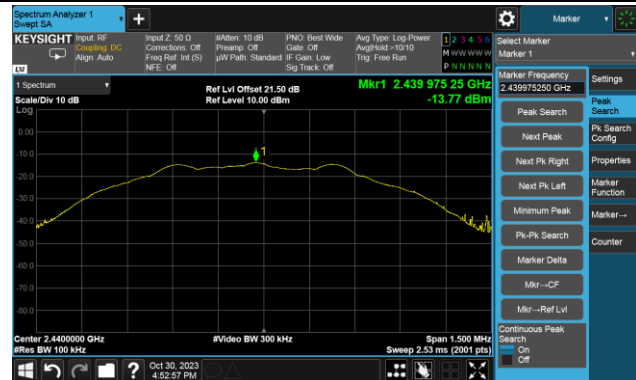
| | | | |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1 | Test Engineer | Alisa Deng |
| Test Date | 2023-10-30 | | |

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

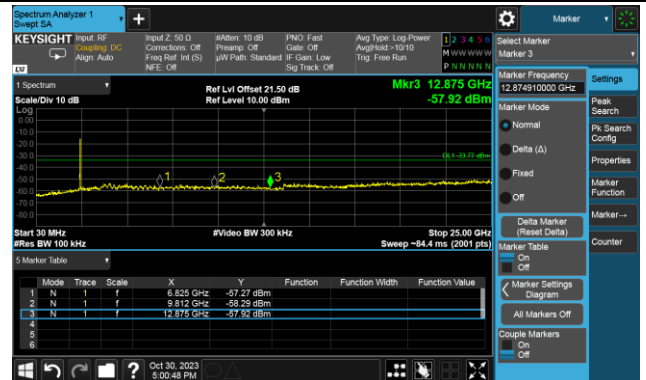


Channel 19 (2440MHz)

100kHz PSD Reference Level

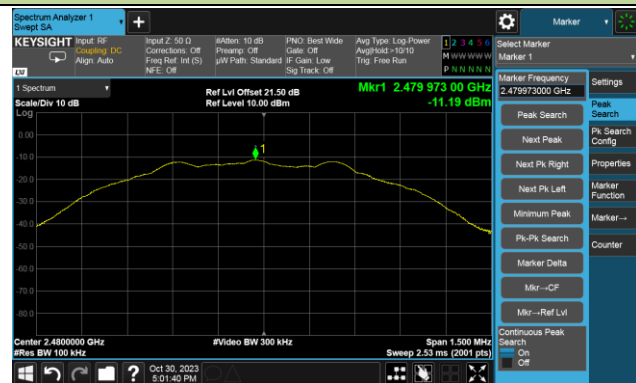


Spurious Emission 30MHz ~ 25GHz



Channel 39 (2480MHz)

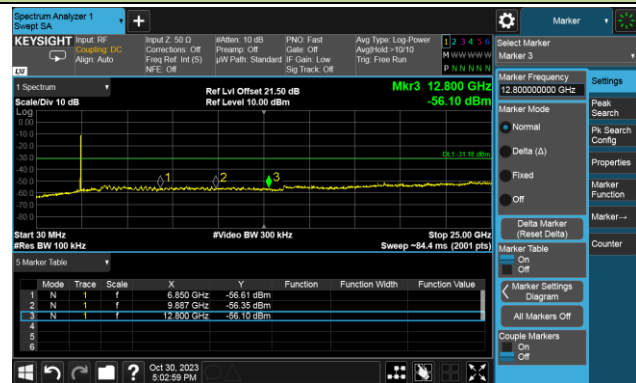
100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



A.6 Radiated Spurious Emission Test Result

| | | | |
|-----------|---|---------------|-----------|
| Test Site | SIP-AC3 | Test Engineer | Fusco Pan |
| Test Date | 2023-10-11 | Test Mode | BLE-1Mbps |
| Remark: | 1. 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. | | |

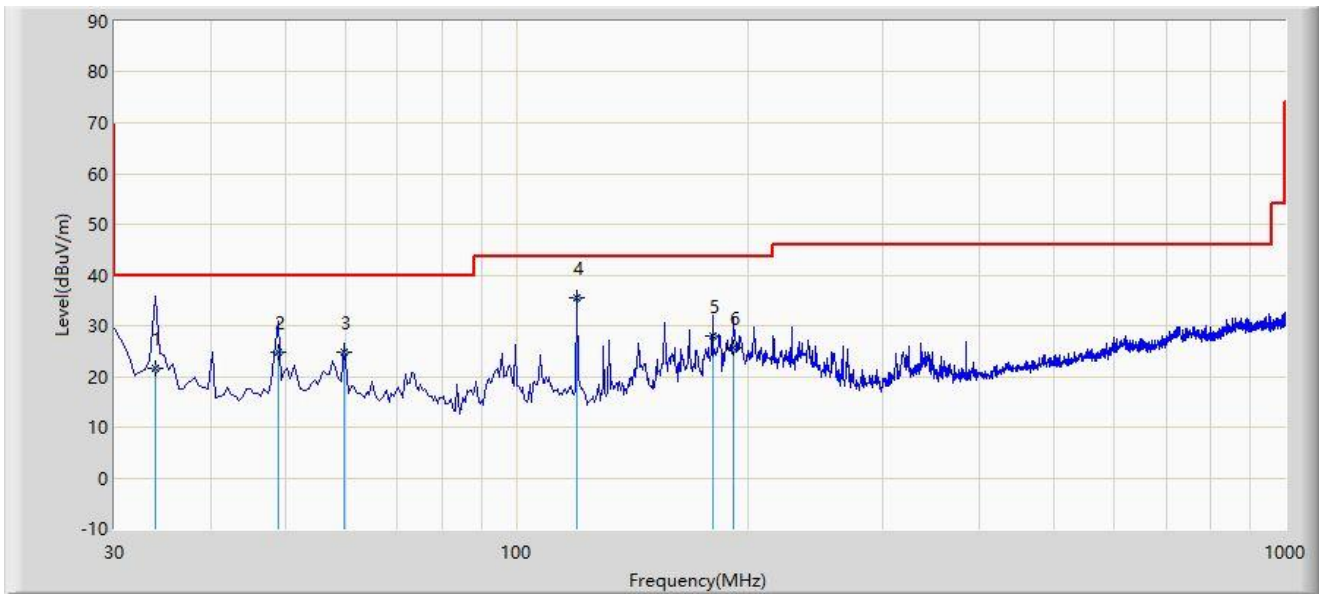
| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 00 | 4808.0 | 51.4 | -7.8 | 43.6 | 74.0 | -30.4 | Peak | Horizontal |
| | 7511.0 | 50.4 | -4.5 | 45.9 | 74.0 | -28.1 | Peak | Horizontal |
| | 12007.5 | 49.5 | -1.8 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| | 4808.0 | 51.4 | -7.8 | 43.6 | 74.0 | -30.4 | Peak | Vertical |
| | 7511.0 | 50.4 | -4.5 | 45.9 | 74.0 | -28.1 | Peak | Vertical |
| | 12007.5 | 49.5 | -1.8 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| 19 | 7315.5 | 57.0 | -5.2 | 51.8 | 74.0 | -22.2 | Peak | Horizontal |
| | 7315.5 | 52.0 | -5.2 | 46.8 | 54.0 | -7.2 | Average | Horizontal |
| | 8412.0 | 48.2 | -3.2 | 45.0 | 74.0 | -29.0 | Peak | Horizontal |
| | 11786.5 | 49.3 | -2.0 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| | 4876.0 | 53.2 | -7.5 | 45.7 | 74.0 | -28.3 | Peak | Vertical |
| | 7315.5 | 56.6 | -5.2 | 51.4 | 74.0 | -22.6 | Peak | Vertical |
| | 7315.5 | 51.9 | -5.2 | 46.7 | 54.0 | -7.3 | Average | Vertical |
| | 12220.0 | 48.4 | -1.7 | 46.7 | 74.0 | -27.3 | Peak | Vertical |
| 39 | 4961.0 | 52.5 | -7.6 | 45.0 | 74.0 | -29.0 | Peak | Horizontal |
| | 7443.0 | 55.9 | -4.8 | 51.2 | 74.0 | -22.8 | Peak | Horizontal |
| | 7443.0 | 51.6 | -4.8 | 46.8 | 54.0 | -7.2 | Average | Horizontal |
| | 11404.0 | 48.0 | -1.6 | 46.4 | 74.0 | -27.6 | Peak | Horizontal |
| | 4961.0 | 55.0 | -7.6 | 47.4 | 74.0 | -26.6 | Peak | Vertical |
| | 7443.0 | 55.2 | -4.8 | 50.4 | 74.0 | -23.6 | Peak | Vertical |
| | 11412.5 | 48.1 | -1.5 | 46.5 | 74.0 | -27.5 | Peak | Vertical |

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

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

The Result of Radiated Emission below 1GHz:

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-10-13 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: Mero Zhou |
| Probe: VULB 9168_00998_25-2000MHz | Polarity: Horizontal |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE at 2480MHz | |



| No | Mark | Frequency (MHz) | Measure Level (dB μ V/m) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1 | | 33.880 | 21.481 | 4.500 | -18.519 | 40.000 | 16.981 | QP |
| 2 | | 48.915 | 24.686 | 6.200 | -15.314 | 40.000 | 18.486 | QP |
| 3 | | 59.585 | 24.654 | 6.900 | -15.346 | 40.000 | 17.754 | QP |
| 4 | * | 119.725 | 35.585 | 19.700 | -7.915 | 43.500 | 15.886 | QP |
| 5 | | 179.865 | 28.049 | 11.200 | -15.451 | 43.500 | 16.849 | QP |
| 6 | | 191.990 | 25.703 | 10.300 | -17.797 | 43.500 | 15.402 | QP |

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

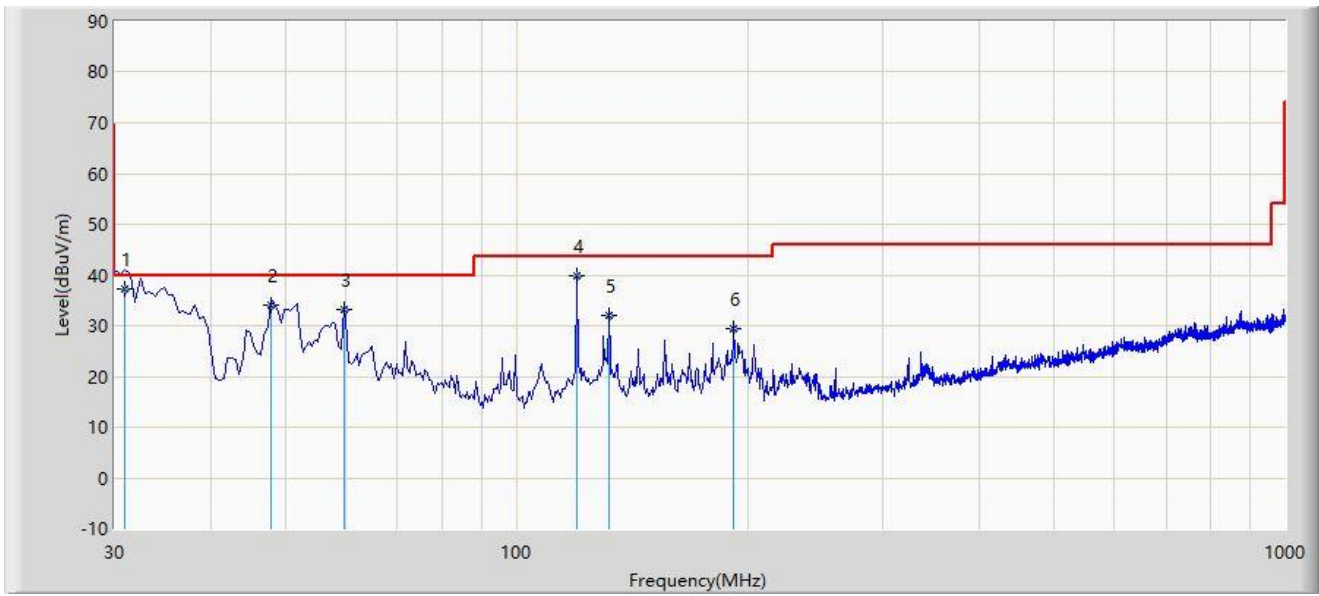
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-10-13 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: Mero Zhou |
| Probe: VULB 9168_00998_25-2000MHz | Polarity: Vertical |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE at 2480MHz | |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1 | * | 30.970 | 37.220 | 20.300 | -2.780 | 40.000 | 16.920 | QP |
| 2 | | 47.945 | 33.969 | 15.500 | -6.031 | 40.000 | 18.469 | QP |
| 3 | | 59.585 | 33.154 | 15.400 | -6.846 | 40.000 | 17.754 | QP |
| 4 | | 119.725 | 39.985 | 24.100 | -3.515 | 43.500 | 15.886 | QP |
| 5 | | 131.850 | 32.047 | 14.900 | -11.453 | 43.500 | 17.147 | QP |
| 6 | | 191.990 | 29.303 | 13.900 | -14.197 | 43.500 | 15.402 | QP |

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

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

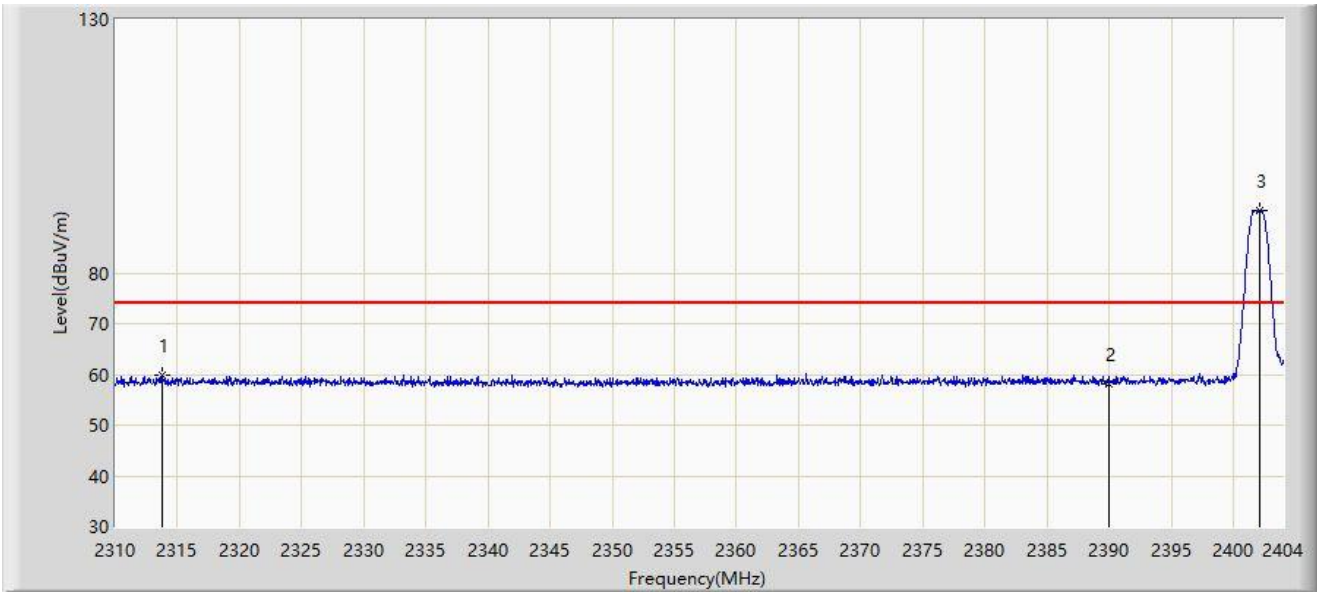
Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Horizontal |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2402MHz | |



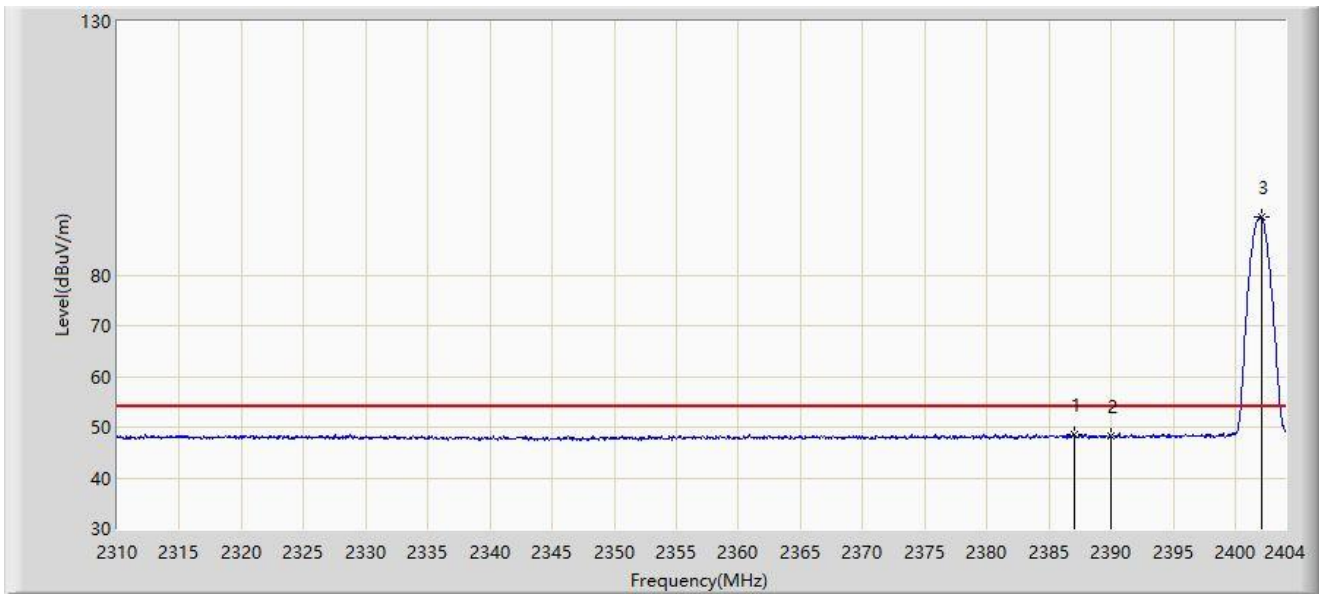
| No | Mark | Frequency (MHz) | Measure Level (dB μ V/m) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1 | * | 2313.713 | 59.742 | 27.096 | -14.258 | 74.000 | 32.646 | PK |
| 2 | | 2390.000 | 58.231 | 25.848 | -15.769 | 74.000 | 32.382 | PK |
| 3 | | 2402.120 | 92.284 | 59.937 | N/A | N/A | 32.347 | PK |

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

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

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

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Horizontal |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2402MHz | |



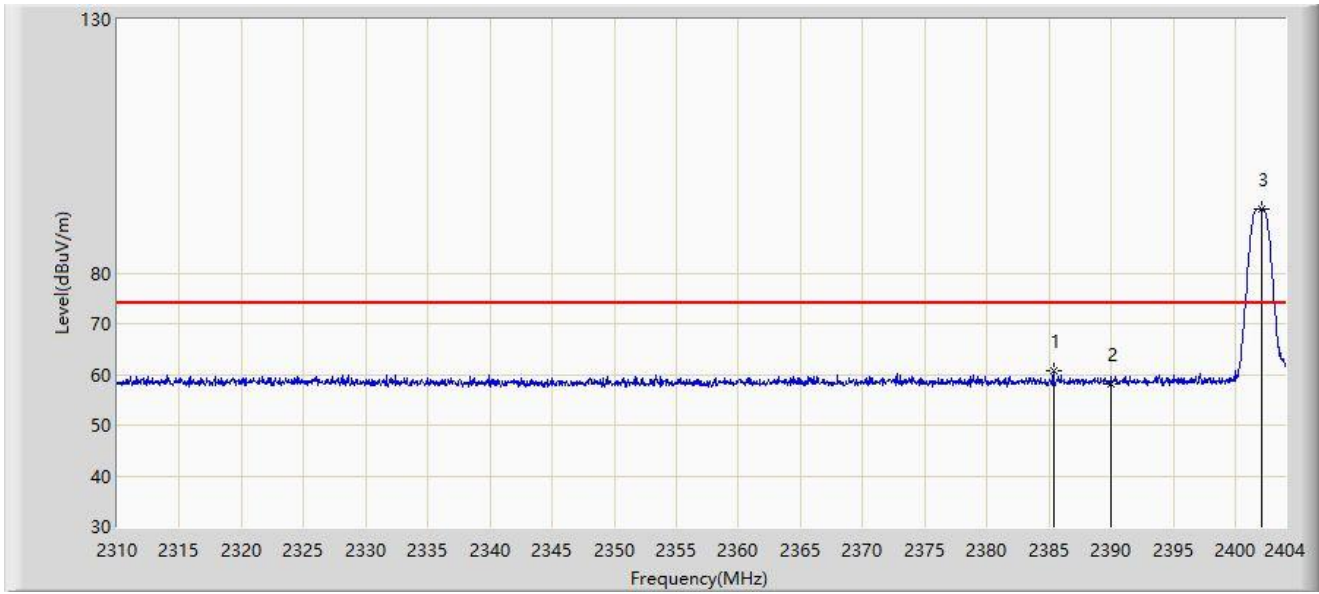
| No | Mark | Frequency (MHz) | Measure Level (dB μ V/m) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1 | * | 2387.080 | 48.484 | 16.085 | -5.516 | 54.000 | 32.399 | AV |
| 2 | | 2390.000 | 48.143 | 15.760 | -5.857 | 54.000 | 32.382 | AV |
| 3 | | 2402.073 | 91.379 | 59.032 | N/A | N/A | 32.347 | AV |

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

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

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

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Vertical |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2402MHz | |



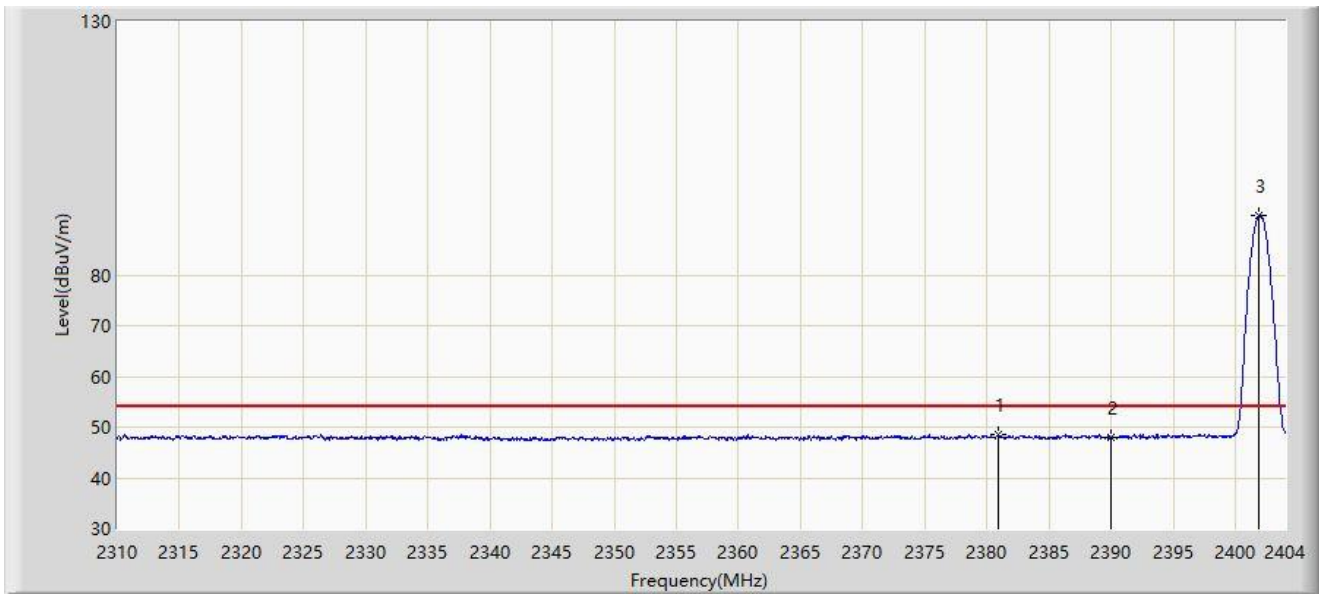
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1 | * | 2385.341 | 60.811 | 28.402 | -13.189 | 74.000 | 32.409 | PK |
| 2 | | 2390.000 | 58.253 | 25.870 | -15.747 | 74.000 | 32.382 | PK |
| 3 | | 2402.167 | 92.607 | 60.260 | 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: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Vertical |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2402MHz | |



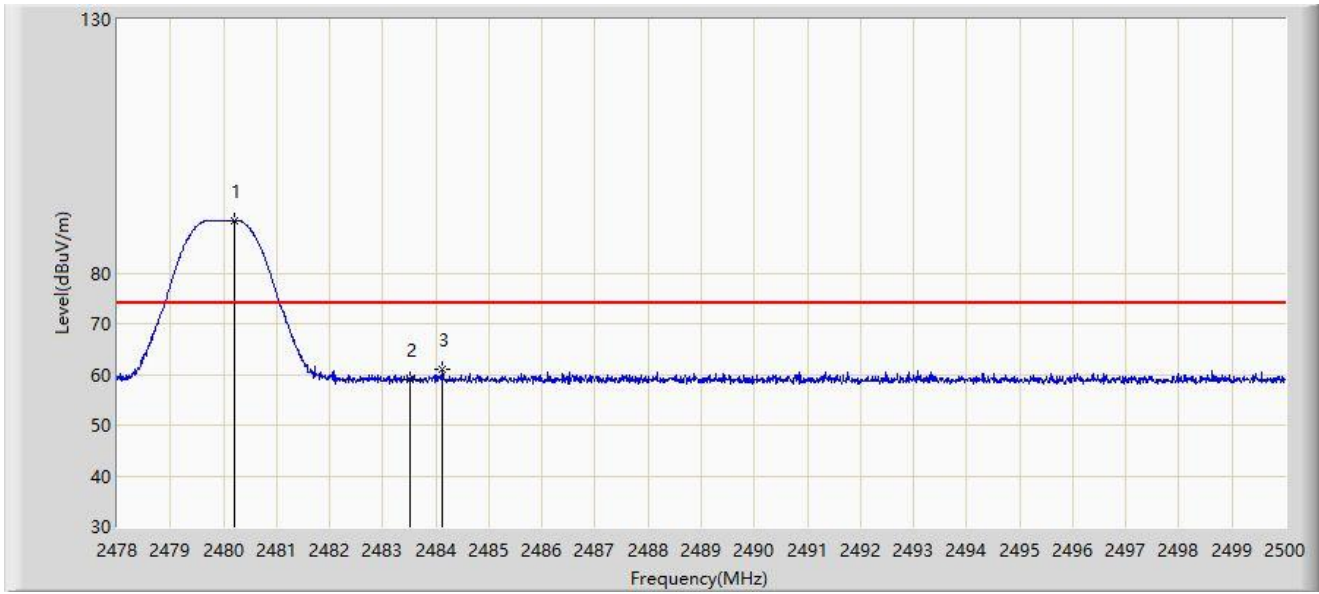
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1 | * | 2380.923 | 48.585 | 16.151 | -5.415 | 54.000 | 32.434 | AV |
| 2 | | 2390.000 | 47.993 | 15.610 | -6.007 | 54.000 | 32.382 | AV |
| 3 | | 2401.932 | 91.773 | 59.426 | 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: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Horizontal |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2480MHz | |



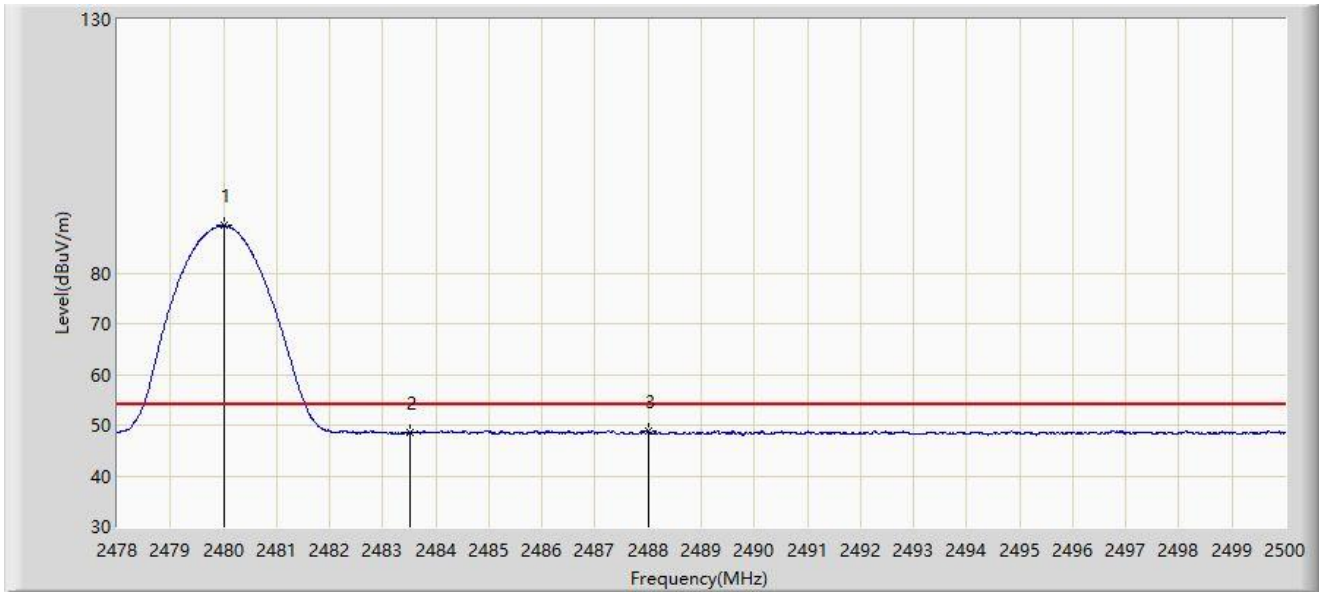
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1 | | 2480.200 | 90.407 | 58.195 | N/A | N/A | 32.212 | PK |
| 2 | | 2483.500 | 58.961 | 26.738 | -15.039 | 74.000 | 32.222 | PK |
| 3 | * | 2484.127 | 60.912 | 28.687 | -13.088 | 74.000 | 32.225 | 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: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Horizontal |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2480MHz | |



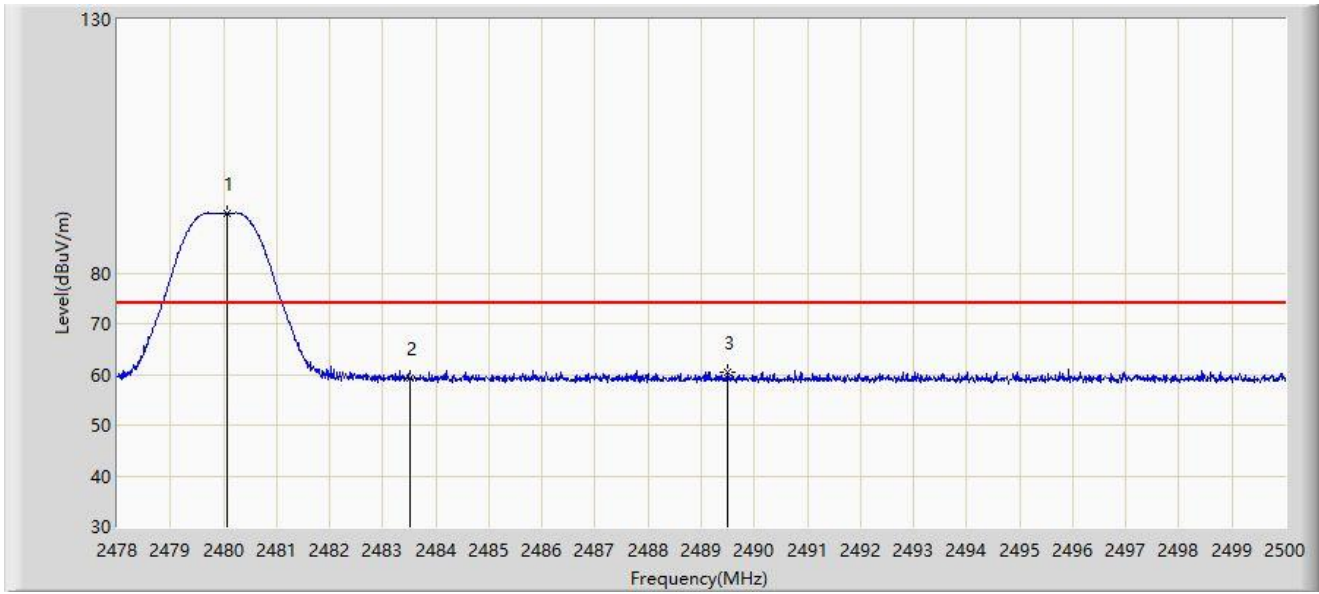
| No | Mark | Frequency (MHz) | Measure Level (dB μ V/m) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1 | | 2480.002 | 89.319 | 57.108 | N/A | N/A | 32.212 | AV |
| 2 | | 2483.500 | 48.439 | 16.216 | -5.561 | 54.000 | 32.222 | AV |
| 3 | * | 2488.010 | 48.936 | 16.699 | -5.064 | 54.000 | 32.237 | AV |

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

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

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

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Vertical |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2480MHz | |



| No | Mark | Frequency (MHz) | Measure Level (dB μ V/m) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1 | | 2480.079 | 91.743 | 59.532 | N/A | N/A | 32.212 | PK |
| 2 | | 2483.500 | 59.171 | 26.948 | -14.829 | 74.000 | 32.222 | PK |
| 3 | * | 2489.506 | 60.528 | 28.286 | -13.472 | 74.000 | 32.242 | PK |

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

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

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

| | |
|--|-----------------------|
| Site: SIP-AC2 | Test Date: 2023-09-23 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Mero Zhou |
| Probe: BBHA 9120D_02042_1-18GHz | Polarity: Vertical |
| EUT: Navimow | Power: By Battery |
| Test Mode: Transmit by BLE 1M at 2480MHz | |



| No | Mark | Frequency (MHz) | Measure Level (dB μ V/m) | Reading Level (dB μ V) | Margin (dB) | Limit (dB μ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1 | | 2480.002 | 90.685 | 58.474 | N/A | N/A | 32.212 | AV |
| 2 | | 2483.500 | 48.553 | 16.330 | -5.447 | 54.000 | 32.222 | AV |
| 3 | * | 2492.674 | 48.942 | 16.690 | -5.058 | 54.000 | 32.252 | AV |

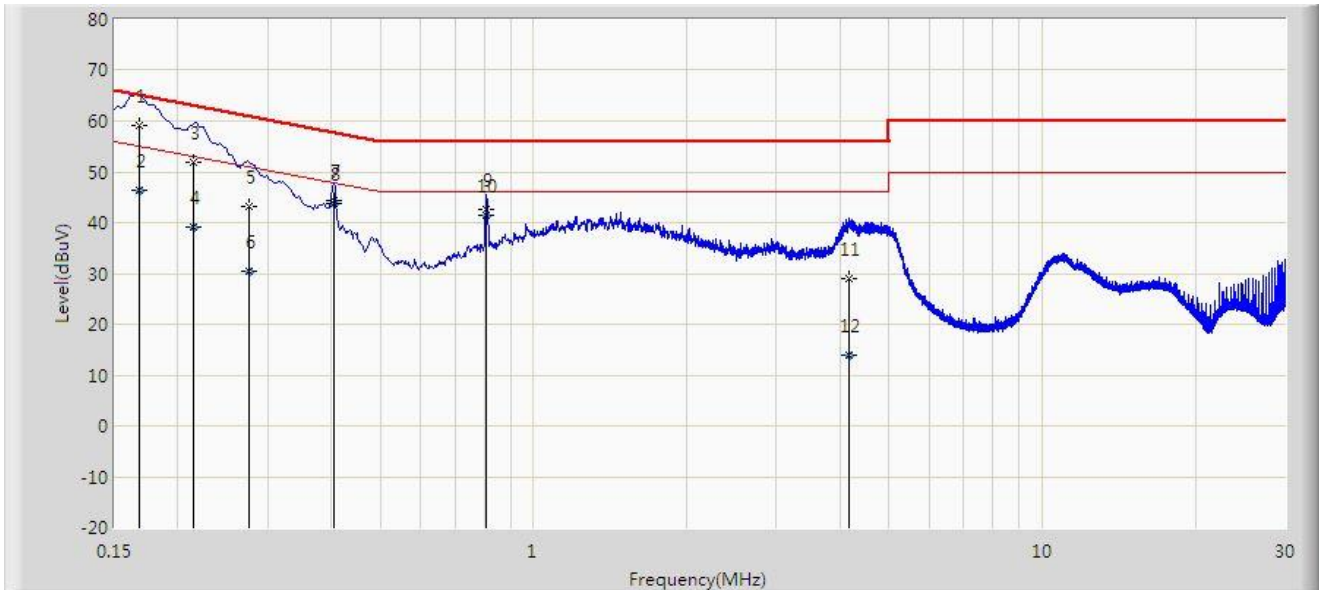
Note 1: " * ", means this data is the worst emission level.

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

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

A.8 AC Conducted Emissions Test Result

| | |
|--|-----------------------|
| Site: SIP-SR2 | Test Date: 2023-11-01 |
| Temperature: 24.2°C | Humidity: 62.8% |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Mark Long |
| Probe: SIP-SR2-ENV216_101684_C | Polarity: Line |
| EUT: Navimow | Power: AC 120V/60Hz |
| Test Mode: Transmit by BLE at 2480MHz | |



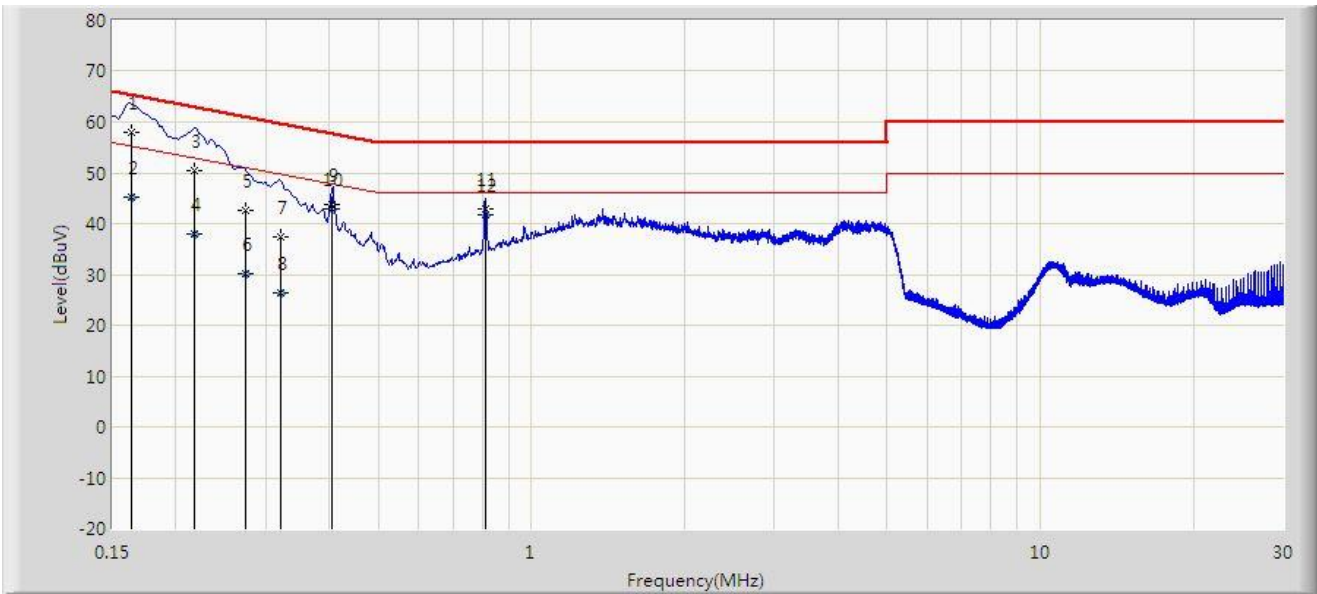
| No | Mark | Frequency (MHz) | Measure Level (dBμV) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1 | | 0.168 | 59.162 | 49.200 | -5.896 | 65.059 | 9.962 | QP |
| 2 | | 0.168 | 46.462 | 36.500 | -8.596 | 55.059 | 9.962 | AV |
| 3 | | 0.215 | 52.023 | 42.000 | -10.987 | 63.010 | 10.024 | QP |
| 4 | | 0.215 | 39.023 | 29.000 | -13.987 | 53.010 | 10.024 | AV |
| 5 | | 0.276 | 43.125 | 33.339 | -17.810 | 60.935 | 9.786 | QP |
| 6 | | 0.276 | 30.565 | 20.779 | -20.371 | 50.935 | 9.786 | AV |
| 7 | | 0.404 | 44.283 | 34.553 | -13.483 | 57.766 | 9.730 | QP |
| 8 | * | 0.404 | 43.655 | 33.925 | -4.110 | 47.766 | 9.730 | AV |
| 9 | | 0.809 | 42.695 | 32.946 | -13.305 | 56.000 | 9.749 | QP |
| 10 | | 0.809 | 41.545 | 31.796 | -4.455 | 46.000 | 9.749 | AV |
| 11 | | 4.182 | 29.117 | 19.265 | -26.883 | 56.000 | 9.852 | QP |
| 12 | | 4.182 | 14.021 | 4.169 | -31.979 | 46.000 | 9.852 | AV |

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

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

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

| | |
|--|-----------------------|
| Site: SIP-SR2 | Test Date: 2023-11-01 |
| Temperature: 24.2°C | Humidity: 62.8% |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Mark Long |
| Probe: SIP-SR2-ENV216_101684_C | Polarity: Neutral |
| EUT: Navimow | Power: AC 120V/60Hz |
| Test Mode: Transmit by BLE at 2480MHz | |



| No | Mark | Frequency (MHz) | Measure Level (dBμV) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1 | | 0.164 | 57.852 | 48.212 | -7.432 | 65.284 | 9.640 | QP |
| 2 | | 0.164 | 45.107 | 35.467 | -10.177 | 55.284 | 9.640 | AV |
| 3 | | 0.217 | 50.504 | 40.823 | -12.410 | 62.914 | 9.681 | QP |
| 4 | | 0.217 | 37.848 | 28.166 | -15.066 | 52.914 | 9.681 | AV |
| 5 | | 0.274 | 42.633 | 32.941 | -18.371 | 61.003 | 9.691 | QP |
| 6 | | 0.274 | 30.264 | 20.573 | -20.739 | 51.003 | 9.691 | AV |
| 7 | | 0.321 | 37.378 | 27.670 | -22.303 | 59.681 | 9.707 | QP |
| 8 | | 0.321 | 26.380 | 16.673 | -23.300 | 49.681 | 9.707 | AV |
| 9 | | 0.404 | 43.750 | 34.040 | -14.016 | 57.766 | 9.710 | QP |
| 10 | | 0.404 | 43.036 | 33.326 | -4.729 | 47.766 | 9.710 | AV |
| 11 | | 0.811 | 43.008 | 33.298 | -12.992 | 56.000 | 9.710 | QP |
| 12 | * | 0.811 | 41.838 | 32.128 | -4.162 | 46.000 | 9.710 | AV |

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

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

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Appendix B - Test Setup Photograph

Refer to "2309RSU022-UT" file.

Appendix C - EUT Photograph

Refer to "2309RSU022-UE" file.

————— The End —————