

# RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-265-RWD-017

Reception No. : 2601000303

Applicant : Bushnell Holdings, LLC

Address : 177 Garden Drive, Bozeman, Montana 59718 USA

Manufacturer : Bushnell Holdings, LLC

Address : 177 Garden Drive, Bozeman, Montana 59718 USA

Type of Equipment : GPS Golf Watch

FCC ID. : 2ASQI-362650

Model Name : 362650

Multiple Model Name : 362651

Serial number : N/A

Total page of Report : 38 pages (including this page)

Date of Incoming : January 23, 2026

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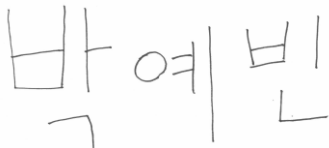
## SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

**This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).**



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※ Please refer to the Annex section for All test plots

**Revision History**

| Rev. No. | Issue Report No. | Issued Date  | Revisions       | Section Affected |
|----------|------------------|--------------|-----------------|------------------|
| 0        | OT-265-RWD-017   | May 15, 2026 | Initial Release | All              |
|          |                  |              |                 |                  |
|          |                  |              |                 |                  |

## 1. VERIFICATION OF COMPLIANCE

Applicant : Bushnell Holdings, LLC  
Address : 177 Garden Drive, Bozeman, Montana 59718 USA  
Contact Person : Kurt Hal  
Telephone No. : +1-949-757-9500  
FCC ID : 2ASQI-362650  
Model Name : 362650  
Brand Name : -  
Serial Number : N/A  
Date : May 15, 2026

|                                                         |                                                                                    |
|---------------------------------------------------------|------------------------------------------------------------------------------------|
| EQUIPMENT CLASS                                         | DSS – PART 15 SPREAD SPECTRUM TRANSMITTER                                          |
| E.U.T. DESCRIPTION                                      | GPS Golf Watch                                                                     |
| THIS REPORT CONCERNS                                    | Original Grant                                                                     |
| MEASUREMENT PROCEDURES                                  | ANSI C63.10: 2020                                                                  |
| TYPE OF EQUIPMENT TESTED                                | Pre-Production                                                                     |
| KIND OF EQUIPMENT<br>AUTHORIZATION REQUESTED            | Certification                                                                      |
| EQUIPMENT WILL BE OPERATED<br>UNDER FCC RULES PART(S)   | FCC PART 15 SUBPART C Section 15.247<br>KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Modifications on the Equipment to<br>Achieve Compliance | None                                                                               |
| Final Test was Conducted On                             | 3 m, Semi Anechoic Chamber                                                         |

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. TEST SUMMARY

### 2.1 Test items and results

| SECTION              | TEST ITEMS                                          | RESULTS                |
|----------------------|-----------------------------------------------------|------------------------|
| 15.247 (a) (1)       | Carrier Frequency Separation                        | Met the Limit / PASS   |
| 15.247 (a) (1) (iii) | Minimum Number of Hopping Channels                  | Met the Limit / PASS   |
| 15.247 (a) (1) (iii) | Average Time of Occupancy                           | Met the Limit / PASS   |
| 15.247 (b) (1)       | Maximum Peak Conducted Output Power                 | Met the Limit / PASS   |
| 15.247 (d)           | 100 kHz Bandwidth Outside the Frequency Band        | Met the Limit / PASS   |
| 15.209               | Radiated Emission Limits, General Requirement       | Met the Limit / PASS   |
| 15.247 (d)           | Radiated Emission which fall in the Restricted Band | Met the Limit / PASS   |
| 15.207               | Conducted Limits                                    | Met the Limit / PASS   |
| 15.203               | Antenna Requirement                                 | Met requirement / PASS |

### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

### 2.3 Related Submittal(s) / Grant(s)

Original submittal only

### 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

### 2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

### 2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

### 3. GENERAL INFORMATION

#### 3.1 Product Description

The Bushnell Holdings, LLC, Model 362650 (referred to as the EUT in this report) is a GPS Golf Watch. The product specification described herein was obtained from product data sheet or user's manual.

|                                                    |                            |                                                             |
|----------------------------------------------------|----------------------------|-------------------------------------------------------------|
| DEVICE TYPE                                        | GPS Golf Watch             |                                                             |
| Temperature Range                                  | 0 °C ~ +35 °C              |                                                             |
| OPERATING FREQUENCY                                | Bluetooth LE               | 2 402 MHz ~ 2 480 MHz                                       |
|                                                    | Bluetooth                  | 2 402 MHz ~ 2 480 MHz                                       |
| MODULATION TYPE                                    | Bluetooth LE               | GFSK for 1 Mbps / 2 Mbps                                    |
|                                                    | Bluetooth                  | FHSS for 1 Mbps, $\pi$ /4-DQPSK for 2Mbps, 8-DPSK for 3Mbps |
| ANTENNA TYPE                                       | LDS Antenna                |                                                             |
| List of each Osc. or crystal Freq.(Freq. >= 1 MHz) | 32.768 kHz, 24 MHz, 48 MHz |                                                             |

#### 3.2 Maximum Peak Output Power

| Mode      | Data Reate | SISO         |       |               |       |
|-----------|------------|--------------|-------|---------------|-------|
|           |            | Output Power |       | E.I.R.P Power |       |
|           |            | Ant 0        | Ant 1 | Ant 0         | Ant 1 |
|           |            | (dBm)        | (dBm) | (dBm)         | (dBm) |
| Bluetooth | 1 Mbps     | 5.86         | -     | -             | -     |
|           | 2 Mbps     | 8.81         | -     | -             | -     |
|           | 3 Mbps     | 9.18         | -     | -             | -     |

#### 3.3 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

| Model Name | Differences                                                 | Tested                              |
|------------|-------------------------------------------------------------|-------------------------------------|
| 362650     | Basic Model                                                 | <input checked="" type="checkbox"/> |
| 362651     | The model is identical to basic model except for the Color. | <input type="checkbox"/>            |

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

### 4. EUT MODIFICATIONS

-. None

## 5. SYSTEM TEST CONFIGURATION

### 5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

| DEVICE TYPE | MANUFACTURER           | MODEL/PART NUMBER | FCC ID |
|-------------|------------------------|-------------------|--------|
| Main Board  | Bushnell Holdings, LLC | N/A               | N/A    |

### 5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

| Model        | Manufacturer           | Description          | Connected to |
|--------------|------------------------|----------------------|--------------|
| 362650       | Bushnell Holdings, LLC | GPS Golf Watch (EUT) |              |
| ZUP36-6      | TDK-Lambda             | DC Power Supply      | EUT          |
| GP-4303D     | LG Precision Co., Ltd  | DC Power Supply      | EUT          |
| 15s-fq1008TU | HP                     | Notebook PC          | EUT          |
| TPN-CA14     | HP                     | AC Adapter           | -            |

### 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

#### -. Frequency / Channel Operations

| Channel | Frequency |
|---------|-----------|
| 0       | 2 402     |
| 39      | 2 441     |
| 78      | 2 480     |

#### -. Power Level Setting(Dec)

| Mode      |        | Channel No. | Frequency (MHz) | PLS Setting |      |
|-----------|--------|-------------|-----------------|-------------|------|
|           |        |             |                 | Ant0        | Ant1 |
| Bluetooth | 1 Mbps | 0           | 2 402           | 10          |      |
|           |        | 39          | 2 441           | 10          |      |
|           |        | 78          | 2 480           | 10          |      |
|           | 2 Mbps | 0           | 2 402           | 10          |      |
|           |        | 39          | 2 441           | 10          |      |
|           |        | 78          | 2 480           | 10          |      |
|           | 3 Mbps | 0           | 2 402           | 10          |      |
|           |        | 39          | 2 441           | 10          |      |
|           |        | 78          | 2 480           | 10          |      |



## 5.4 Configuration of Test System

### Line Conducted Test:

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10: 2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average Measurement Type or modes.

### Radiated Emission Test:

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5 m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

In order to find out the max. emission, the relative positions of this EUT was rotated through three orthogonal axes according to the requirements in Section 6.6.5 of ANSI C63.10: 2020

## 5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### Antenna Construction:

The EUT's antennas are a LDS Antenna, which are permanently attached to the EUT and cannot be replaced by the user.

## 6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Parameter                                     | Expanded Uncertainty (dB) |
|-----------------------------------------------|---------------------------|
| Conducted Output Power                        | 1.22                      |
| Conducted Spurious Emission < 26.5 GHz        | 1.40                      |
| Power Spectral Density                        | 1.22                      |
| Line Conducted Disturbance (150 kHz ~ 30 MHz) | 1.40                      |
| Radiated Disturbance (9 kHz ~ 30 MHz)         | 3.28                      |
| Radiated Disturbance (30 MHz ~ 1 GHz)         | 4.42                      |
| Radiated Disturbance (1 GHz ~ 18 GHz)         | 5.12                      |
| Radiated Disturbance (18 GHz ~ 40 GHz)        | 4.62                      |

## 7. PRELIMINARY TEST

### 7.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

| Operation Mode    | The Worse operating condition (Please check one only) |
|-------------------|-------------------------------------------------------|
| Transmitting Mode | X                                                     |

### 7.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

| Operation Mode    | The Worse operating condition (Please check one only) |
|-------------------|-------------------------------------------------------|
| Transmitting Mode | X                                                     |

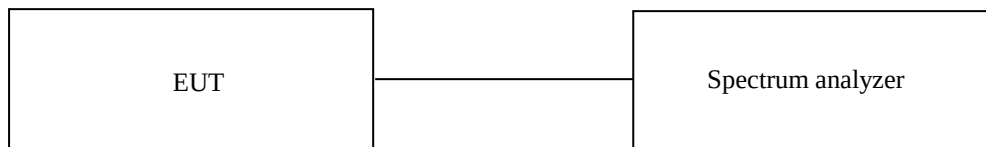
### 7.3 LIST OF TEST EQUIPMENT

| Model Number     | Manufacturer          | Description                   | Serial Number         | Last Cal.(Interval) |
|------------------|-----------------------|-------------------------------|-----------------------|---------------------|
| FSVA40           | Rohde & Schwarz       | Signal & Spectrum Analyzer    | 101593                | Jan. 12, 2026 (1Y)  |
| FSVA40           | Rohde & Schwarz       | Signal & Spectrum Analyzer    | 101598                | Jan. 12, 2026 (1Y)  |
| FSV3044          | Rohde & Schwarz       | Signal & Spectrum Analyzer    | 101758                | Jul. 02, 2025 (1Y)  |
| ZUP36-6          | TDK-Lambda            | DC Power Supply               | 6MJ-850Z16-0014       | Jan. 12, 2026 (1Y)  |
| GP-4303D         | LG Precision Co., Ltd | DC Power Supply               | 5071069               | Jan. 04, 2026 (1Y)  |
| SMB100A          | Rohde & Schwarz       | SIGNAL GENERATOR              | 177648                | Jan 14, 2026 (1Y)   |
| MA24408A         | Anritsu               | Microwave Peak Power Sensor   | 12199                 | Jan 14, 2026 (1Y)   |
| SH-241           | ESPEC                 | Environmental Test Chamber    | 92009434              | Jan 13, 2026 (1Y)   |
| ESR              | Rohde & Schwarz       | EMI Test Receiver             | 101470                | Mar. 11, 2025 (1Y)  |
| 310N             | Sonoma Instrument     | Pre-Amplifier                 | 312544                | Mar. 11, 2025 (1Y)  |
| SCU18            | Rohde & Schwarz       | Pre-Amplifier                 | 102266                | Jul. 02, 2025 (1Y)  |
| SCU40A           | Rohde & Schwarz       | Pre-Amplifier                 | 100436                | Jan. 15, 2026 (1Y)  |
| DT5000           | Innco System          | Turn Table                    | N/A                   | N/A                 |
| MA-4000-XPET     | Innco System          | Antenna Master                | MA4000/509/37211215/L | N/A                 |
| CO3000           | Innco System          | Controller                    | N/A                   | N/A                 |
| HLP-2008         | TDK RF Solutions      | Hybrid Antenna                | 131314                | Mar. 01, 2025 (2Y)  |
| BBHA9120D        | Schwarzbeck           | Horn Antenna                  | 9120D-1366            | Jun. 19, 2025 (1Y)  |
| BBHA9120D        | Schwarzbeck           | Horn Antenna                  | 9120D-1349            | Jun. 27, 2025 (1Y)  |
| BBHA9170         | Schwarzbeck           | Horn Antenna                  | BBHA9170178           | Jan. 04, 2026 (1Y)  |
| HPF 3GHz         | Rohde & Schwarz       | High Pass Filter              | N/A                   | Jan. 12, 2026 (1Y)  |
| 8493C            | HP                    | Coaxial Fixed Attenuator(6dB) | 1366                  | Jul. 04, 2025 (1Y)  |
| 10 dB Attenuator | Rohde & Schwarz       | 10 dB Attenuator              | 14100882-3            | Jul. 02, 2025 (1Y)  |
| ESCI             | Rohde & Schwarz       | EMI TEST RECEIVER             | 101012                | Sep. 24, 2025 (1Y)  |
| ESCI             | Rohde & Schwarz       | EMI TEST RECEIVER             | 101013                | Mar. 11, 2025 (1Y)  |
| NSLK8126         | Schwarzbeck           | V - LISN ( 4*16/25A)          | 8126404               | Mar. 11, 2025 (1Y)  |
| ESH3-Z2          | Rohde & Schwarz       | PULSE LIMITER                 | 100655                | Mar. 11, 2025 (1Y)  |

## 8. DESCRIPTION OF TESTS

### 8.1 Duty Cycle

#### 1) Test Configuration

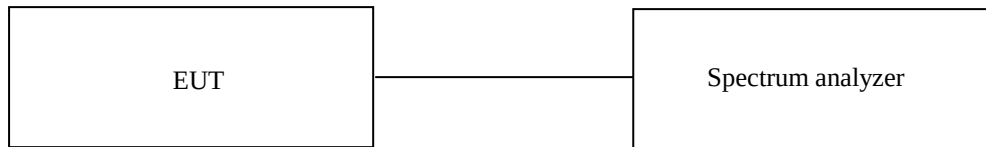


#### 2) Test Procedure

1. RBW = 10 MHz (the largest available value)
2. VBW = 10 MHz ( $\geq$  RBW)
3. SPAN = 0 Hz
4. Measurement Type = Peak
5. Trace mode = Clear write
6. Calculate Duty Cycle =  $T_{on} / T_{total}$  and Duty Cycle Factor =  $10\log(1/\text{Duty Cycle})$

## 8.2 Minimum 20 dB Bandwidth

### 1) Test Configuration



### 2) Test Procedure

#### 20 dB Bandwidth

We tested according to Procedure Section 6.9.2 in ANSI C63.10-2020.

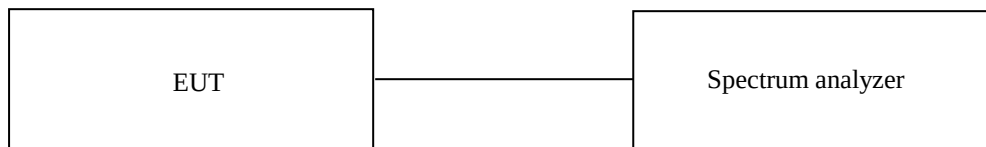
7. RBW: 1 % to 5 % of the OBW
8.  $VBW \geq 3 \times RBW$
9. Detector: Peak
10. Trace mode: max hold
11. Measure the maximum width of the emission that is 20 dB down from the maximum of the emission.

### 8.3 Carrier Frequency Separation

#### 1) Limit

According to §15.247(a)(1), frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

#### 2) Test Configuration



#### 3) Test Procedure

We tested according to Procedure Section 7.8.2 in ANSI C63.10-2020.

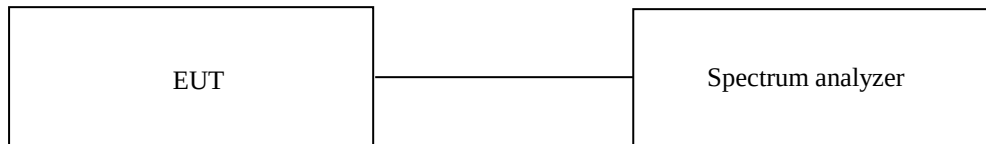
1. Span: Wide enough to capture the peaks of two adjacent channels.
2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3.  $VBW \geq RBW$
4. Sweep: No faster than coupled (auto) time
5. Detector: Peak
6. Trace mode: max hold
7. Allow the trace to stabilize
8. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

## 8.4 Number of Hopping Channels

### 1) Limit

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

### 2) Test Configuration



### 3) Test Procedure

We tested according to Procedure Section 7.8.3 in ANSI C63.10-2020.

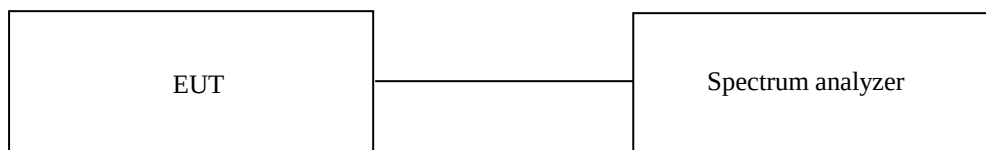
1. Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.sadsd
2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3.  $VBW \geq RBW$
4. Sweep: No faster than coupled (auto) time
5. Detector: Peak
6. Trace mode: max hold
7. Allow the trace to stabilize

## 8.5 Time of Occupancy

### 1) Limit

According to §15.247(a)(1)(iii), The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 2) Test Configuration



### 3) Test Procedure

We tested according to Procedure Section 7.8.4 in ANSI C63.10-2020.

1. Span: Zero span, centered on a hopping channel.
2. RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1 / T$ , where T is the expected transmission time per hop.
3. Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =  $1/\text{hopping rate}$ ) should achieve this.
4. Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
5. Detector: Peak.
6. Trace mode: Clear-write, single sweep.
7. Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

### 4) Calculation

The system makes worst case 1 600 hops per second or 1 time slot has a length of 625  $\mu\text{s}$  with 79 channels.

For DH1 packet type, the EUT needs 1 time slot for transmitting and 1 time slot for receiving and for DH3 packet type, the EUT needs 3 times slots for transmitting and 1 time slot for receiving, and DH5 packet needs 5 times slots for transmitting and 1 time slot for receiving. So The EUT has each channel for 10.13 times per second ( $= 1\,600/2/79$ ) for DH1, and 5.06 times ( $= 1\,600/4/79$ ) for DH3, and 3.38 times ( $= 1\,600/6/79$ ) for DH5. Total dwell time is calculated as following.

Total Dwell Time = Pulse time \* Hops per second with channels \* period time

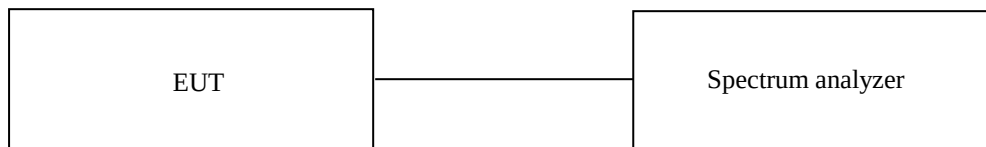


## 8.6 Maximum Peak Output Power

### 1) Limit

According to §15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

### 2) Test Configuration



### 3) Test Procedure

We tested according to Procedure Section 7.8.5 in ANSI C63.10-2020.

Frequency hopping shall be disabled for this test.

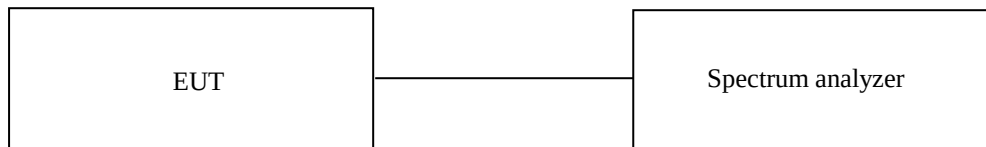
1. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
2. RBW > 20 dB bandwidth of the emission being measured.
3. VBW  $\geq$  RBW
4. Sweep: No faster than coupled (auto) time
5. Detector: Peak
6. Trace mode: max hold
7. Allow the trace to stabilize
8. Use the marker-to-peak function to set the marker to the peak of the emission

## 8.7 100 kHz Bandwidth Outside the Frequency Band

### 1) Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 2) Test Configuration



### 3) Test Procedure

We tested according to Procedure Section 7.8.7 in ANSI C63.10-2020.

1. RBW: 100 kHz
2. VBW: 300 kHz
3. Sweep: No faster than coupled (auto) time
4. Detector: Peak
5. Trace mode: max hold

## 8.8 Radiated Test

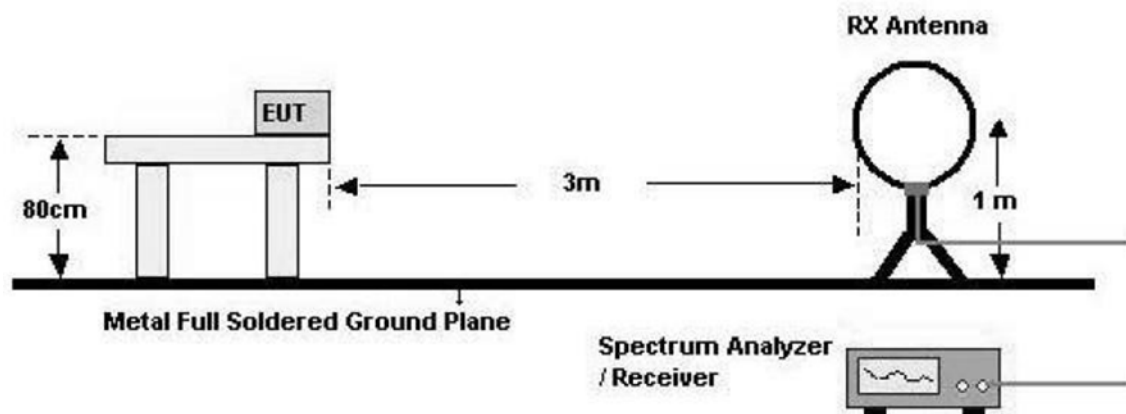
### 1) Limit

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 Section 15.209.

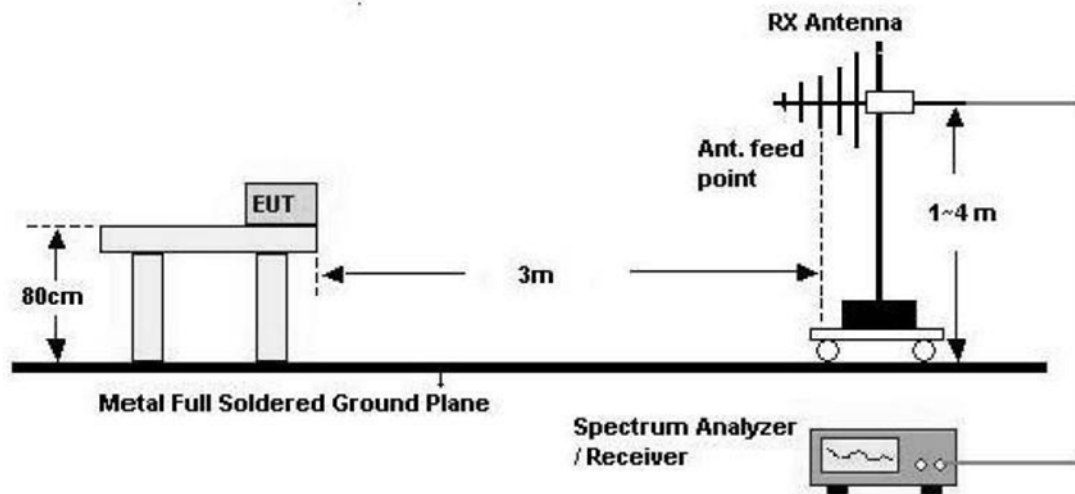
| Frequency Range (MHz) | Field Strength ( $\mu\text{V/m}$ ) | Measurement Distance (m) |
|-----------------------|------------------------------------|--------------------------|
| 0.009 ~ 0.490         | $2400/F(\text{kHz})$               | 300                      |
| 0.490 ~ 1.705         | $24000/F(\text{kHz})$              | 30                       |
| 1.705 ~ 30            | 30                                 | 30                       |
| 30 ~ 88               | 100                                | 3                        |
| 88 ~ 216              | 150                                | 3                        |
| 216 ~ 860             | 200                                | 3                        |
| Above 960             | 500                                | 3                        |

### 2) Test Configuration

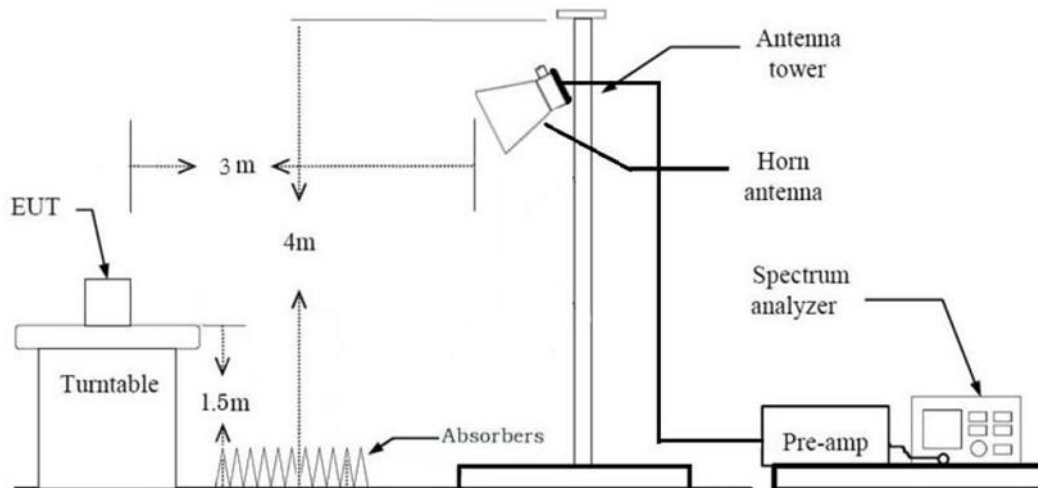
#### Below 30 MHz



**30 MHz ~ 1 GHz**



**Above 1 GHz**



### 3) Test Procedure

#### Radiated Spurious Emissions(Below 30 MHz)

We tested according to Procedure Section 6.4 in ANSI C63.10-2020.

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz ~ 0.490 MHz) =  $40 \cdot \log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$   
Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz ~ 30 MHz) =  $40 \cdot \log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$   
Measurement Distance : 3 m
8. Spectrum Setting
  - Frequency Range = 9 kHz ~ 30 MHz
  - Detector = Peak
  - Trace = Max Hold
  - RBW = 9 kHz
  - VBW  $\geq 3 \times$  RBW
9. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

**Radiated Spurious Emissions(Below 1 GHz)**

We tested according to Procedure Section 6.5 in ANSI C63.10-2020.

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
  - 1) Measurement Type(Peak) :
    - Measured Frequency Range : 30 MHz - 1 GHz
    - Detector = Peak
    - Trace = Max Hold
    - RBW = 100 kHz
    - VBW  $\geq$  3 x RBW
  - 2) Measurement Type(Quasi-peak) :
    - Measured Frequency Range : 30 MHz - 1 GHz
    - Detector = Quasi-Peak
    - RBW = 120 kHz
7. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

**Radiated Spurious Emissions(Above 1 GHz)**

We tested according to Procedure Section 6.6 & 7.8.8 in ANSI C63.10-2020.

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Spectrum Setting
  - 1) Measurement Type(Peak)
    - Measured Frequency Range : Center frequency was set to the frequency of the Radiated Spurious emission of interest
    - Detector = Peak
    - Trace = Max Hold
    - RBW = 1 MHz
    - VBW  $\geq$  3 x RBW
    - Sweep time = Auto
  - 2) Measurement Type(Method AD – Average Detection)
    - Measured Frequency Range : Center frequency was set to the frequency of the Radiated Spurious emission of interest
    - Detector = RMS(power average)
    - Averaging type = power averaging(RMS)
    - RBW = 1 MHz
    - VBW  $\geq$  3 x RBW
    - Sweep time = auto
    - Trace average at least 100 traces in power averaging(RMS) mode
7. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
8. Distance extrapolation factor =  $20\log(\text{test distance} / \text{specific distance})$  (dB)

### Radiated Restricted Band Edge

We tested according to Procedure Section 6.10 & 7.8.8 in ANSI C63.10-2020.

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Spectrum Setting
  - 3) Measurement Type(Peak)
    - Detector = Peak
    - Trace = Max Hold
    - RBW = 1 MHz
    - VBW  $\geq$  3 x RBW
    - Sweep time = Auto
  - 4) Measurement Type(Method AD – Average Detection)
    - Detector = RMS(power average)
    - Averaging type = power averaging(RMS)
    - RBW = 1 MHz
    - VBW  $\geq$  3 x RBW
    - Sweep time = auto
    - Trace average at least 100 traces in power averaging(RMS) mode
7. Measured Frequency Range :
  - 1) 2 310 MHz ~ 2 390 MHz
  - 2) 2 483.5 MHz ~ 2 500 MHz
8. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
9. Distance extrapolation factor =  $20\log(\text{test distance} / \text{specific distance})$  (dB)



## 8.9 AC Power line Conducted Emissions

### 1) Limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

The limits are as specified in the tables below.

| Frequency Range (MHz) | Limits (dB $\mu$ V)     |                         |
|-----------------------|-------------------------|-------------------------|
|                       | Quasi-peak              | Average                 |
| 0.15 to 0.50          | 66 to 56 <sup>(a)</sup> | 56 to 46 <sup>(a)</sup> |
| 0.50 to 5             | 56                      | 46                      |
| 5 to 30               | 60                      | 50                      |

<sup>(a)</sup> Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### 2) Test Configuration

Setup according to ANSI C63.10:2020, Section 6.2.

Please refer to the attached test photos for the actual connection between the EUT and the supporting equipment.

### 3) Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Measurement Typeors : Quasi Peak and Average Measurement Type

## 9. TEST RESULT

### 9.1 Operating environment

Temperature : 24 °C  
Relative humidity : 52 % R.H.

### 9.2 Test Date

January 23, 2026 ~ February 10, 2026

### 9.3 Duty Cycle

#### 9.3.1 Test data

| Mode                 | Tx On Time<br>[ ms ] | Tx Off Time<br>[ ms ] | Duty Cycle<br>[ % ] | Correction Factor<br>[ dB ] |
|----------------------|----------------------|-----------------------|---------------------|-----------------------------|
| Bluetooth [ 1 Mbps ] | 2.929                | 0.822                 | 78.08               | 1.07                        |
| Bluetooth [ 2 Mbps ] | 2.885                | 0.866                 | 76.92               | 1.14                        |
| Bluetooth [ 3 Mbps ] | 2.886                | 0.864                 | 76.95               | 1.14                        |

### 9.4 Minimum 20 dB Bandwidth

#### 9.4.1 Test data

| Mode                    | Channel | Frequency (MHz) | 20 dB Bandwidth<br>(kHz) |
|-------------------------|---------|-----------------|--------------------------|
| Bluetooth<br>[ 1 Mbps ] | 0       | 2 402.00        | 934.91                   |
|                         | 39      | 2 441.00        | 934.91                   |
|                         | 78      | 2 480.00        | 929.79                   |
| Bluetooth<br>[ 2 Mbps ] | 0       | 2 402.00        | 1 339.90                 |
|                         | 39      | 2 441.00        | 1 339.90                 |
|                         | 78      | 2 480.00        | 1 349.89                 |
| Bluetooth<br>[ 3 Mbps ] | 0       | 2 402.00        | 1 335.04                 |
|                         | 39      | 2 441.00        | 1 339.90                 |
|                         | 78      | 2 480.00        | 1 335.04                 |

## 9.5 Carrier Frequency Separation

### 9.5.1 Test data

| Mode                 | Measured Value (kHz) | Two-third of 20 dB Bandwidth (kHz) | Limit                                |
|----------------------|----------------------|------------------------------------|--------------------------------------|
| Bluetooth [ 1 Mbps ] | 1 004.00             | 623.27                             | Separated by a minimum of 623.27 kHz |
| Bluetooth [ 2 Mbps ] | 1 004.00             | 893.27                             | Separated by a minimum of 893.27 kHz |
| Bluetooth [ 3 Mbps ] | 1 004.00             | 893.27                             | Separated by a minimum of 893.27 kHz |

## 9.6 Number of Hopping Channels

### 9.6.1 Test data

| Mode                 | Measured value (Number) | Limit (Number) | Margin (Number) |
|----------------------|-------------------------|----------------|-----------------|
| Bluetooth [ 1 Mbps ] | 79                      | Minimum of 15  | 64              |
| Bluetooth [ 2 Mbps ] | 79                      | Minimum of 15  | 64              |
| Bluetooth [ 3 Mbps ] | 79                      | Minimum of 15  | 64              |

## 9.7 Time of Occupancy

Total dwell time is calculated as following.

Total Dwell Time = Pulse time \* Hops per second with channels \* period time

### 9.7.1 Test data

| Mode                 | Packet Type | Pulse Time (ms) | Hops per second with channels | Period Time (ms) | Total Dwell Time (ms) | Limit (ms) |
|----------------------|-------------|-----------------|-------------------------------|------------------|-----------------------|------------|
| Bluetooth [ 1 Mbps ] | DH1         | 0.44            | 10.13                         | 31.60            | 141.87                | 400.00     |
|                      | DH3         | 1.68            | 5.06                          | 31.60            | 268.33                | 400.00     |
|                      | DH5         | 2.93            | 3.38                          | 31.60            | 313.09                | 400.00     |
| Bluetooth [ 2 Mbps ] | 2DH1        | 0.39            | 10.13                         | 31.60            | 123.57                | 400.00     |
|                      | 2DH3        | 1.64            | 5.06                          | 31.60            | 262.08                | 400.00     |
|                      | 2DH5        | 2.89            | 3.38                          | 31.60            | 308.28                | 400.00     |
| Bluetooth [ 3 Mbps ] | 3DH1        | 0.39            | 10.13                         | 31.60            | 123.43                | 400.00     |
|                      | 3DH3        | 1.64            | 5.06                          | 31.60            | 261.43                | 400.00     |
|                      | 3DH5        | 2.89            | 3.38                          | 31.60            | 308.36                | 400.00     |

## 9.8 Maximum Peak Output Power

Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Margin = Limit – EIRP(=Measured Value + Antenna Gain)

### 9.8.1 Test data

| Mode                    | Channel | Frequency<br>(MHz) | Measured Value<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|-------------------------|---------|--------------------|-------------------------|----------------|----------------|
| Bluetooth<br>[ 1 Mbps ] | 0       | 2 402.00           | 5.57                    | 21.00          | 15.43          |
|                         | 39      | 2 441.00           | 5.64                    | 21.00          | 15.36          |
|                         | 78      | 2 480.00           | 5.86                    | 21.00          | 15.14          |
| Bluetooth<br>[ 2 Mbps ] | 0       | 2 402.00           | 5.66                    | 21.00          | 15.34          |
|                         | 39      | 2 441.00           | 6.79                    | 21.00          | 14.21          |
|                         | 78      | 2 480.00           | 8.81                    | 21.00          | 12.19          |
| Bluetooth<br>[ 3 Mbps ] | 0       | 2 402.00           | 6.26                    | 21.00          | 14.74          |
|                         | 39      | 2 441.00           | 7.30                    | 21.00          | 13.70          |
|                         | 78      | 2 480.00           | 9.18                    | 21.00          | 11.82          |

## 9.9 100 kHz Bandwidth Outside the Frequency Band

For Test data for conducted emission, please refer to the Annex.

## 9.10 Radiated Spurious Emissions

### 9.10.1 Frequency Range: Below 30 MHz

| Frequency (MHz)         | Reading (dBμV) | Ant. Pol. (H/V) | Ant. Height (m) | Angle (°) | Ant. Factor (dB/m) | Cable Loss | Emission Level(dBμV/m) | Limits (dBμV/m) | Margin (dB) |
|-------------------------|----------------|-----------------|-----------------|-----------|--------------------|------------|------------------------|-----------------|-------------|
| No Critical peaks found |                |                 |                 |           |                    |            |                        |                 |             |

-. Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

-. Frequency range : 9 kHz ~ 30 MHz

-. Measurement distance : 3 m

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor =  $40\log(\text{specific distance} / \text{test distance})$  (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

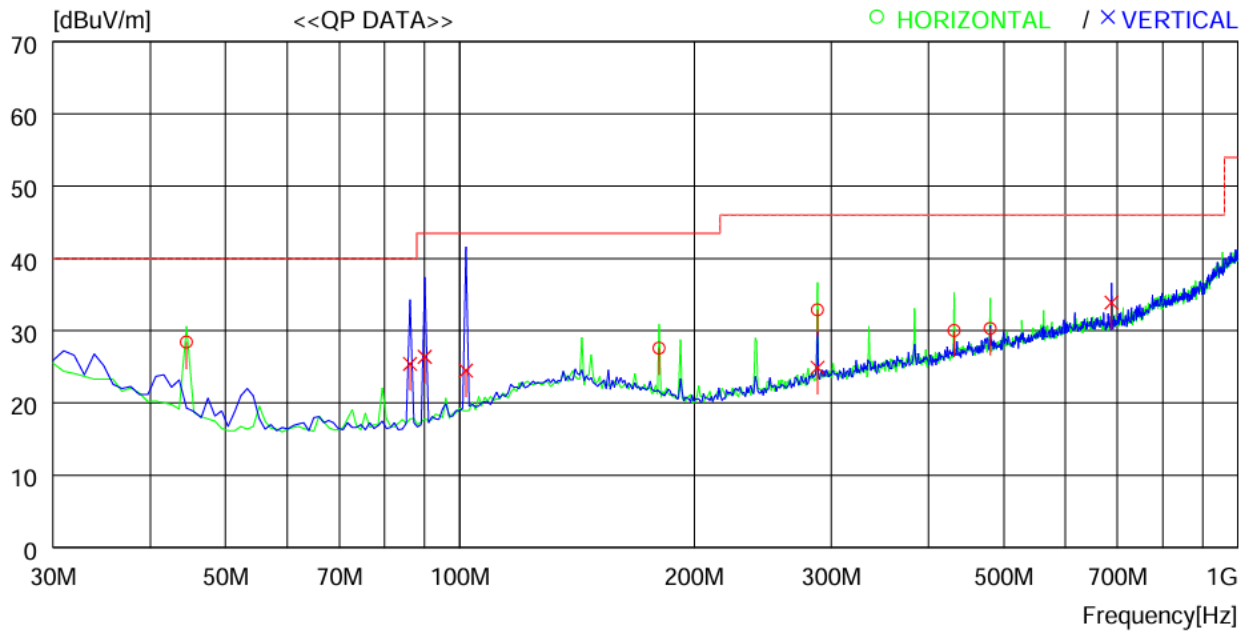
### 9.10.2 Frequency Range: Below 1 GHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : GPS Golf Watch

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



| No.                    | FREQ    | READING | ANT    | LOSS | GAIN | RESULT   | LIMIT    | MARGIN | ANTENNA | TABLE |
|------------------------|---------|---------|--------|------|------|----------|----------|--------|---------|-------|
|                        | [MHz]   | [dBuV]  | FACTOR | [dB] | [dB] | [dBuV/m] | [dBuV/m] | [dB]   | [cm]    | [DEG] |
| ----- Horizontal ----- |         |         |        |      |      |          |          |        |         |       |
| 1                      | 44.550  | 44.2    | 15.2   | 1.0  | 32.0 | 28.4     | 40.0     | 11.6   | 213     | 23    |
| 2                      | 180.350 | 41.0    | 16.7   | 1.9  | 32.0 | 27.6     | 43.5     | 15.9   | 398     | 292   |
| 3                      | 288.020 | 43.5    | 19.0   | 2.4  | 32.0 | 32.9     | 46.0     | 13.1   | 120     | 0     |
| 4                      | 431.581 | 37.6    | 21.6   | 3.0  | 32.2 | 30.0     | 46.0     | 16.0   | 215     | 285   |
| 5                      | 480.081 | 36.6    | 22.7   | 3.2  | 32.2 | 30.3     | 46.0     | 15.7   | 267     | 359   |
| ----- Vertical -----   |         |         |        |      |      |          |          |        |         |       |
| 6                      | 86.260  | 42.3    | 13.7   | 1.4  | 32.0 | 25.4     | 40.0     | 14.6   | 113     | 270   |
| 7                      | 90.140  | 43.2    | 13.8   | 1.4  | 32.0 | 26.4     | 43.5     | 17.1   | 120     | 359   |
| 8                      | 101.780 | 39.5    | 15.7   | 1.3  | 32.0 | 24.5     | 43.5     | 19.0   | 105     | 261   |
| 9                      | 288.020 | 35.5    | 19.0   | 2.4  | 32.0 | 24.9     | 46.0     | 21.1   | 388     | 0     |
| 10                     | 687.655 | 36.8    | 25.4   | 4.0  | 32.3 | 33.9     | 46.0     | 12.1   | 120     | 245   |

### 9.10.3 Frequency Range Above 1 GHz

- Remark: “H”: Horizontal, “V”: Vertical
- Margin (dB) = Limits (dB $\mu$ V/m) - Emission Level (dB $\mu$ V/m)
- D.F (dB) = Duty Factor(dB)

#### 9.10.3.1 Test data

| Channel         | CH 0                 |               | Frequency(MHz)  |             | 2 402      |          |          | Mode                 | 1 Mbps                |             |
|-----------------|----------------------|---------------|-----------------|-------------|------------|----------|----------|----------------------|-----------------------|-------------|
| Frequency (MHz) | Reading (dB $\mu$ V) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | D.F (dB) | Total (dB $\mu$ V/m) | Limits (dB $\mu$ V/m) | Margin (dB) |
| 4 801.570       | 51.50                | Peak          | H               | 31.30       | 16.30      | 42.24    | 0.00     | 56.86                | 74.00                 | 17.14       |
| 4 802.640       | 39.97                | Average       | H               | 31.30       | 16.30      | 42.24    | 1.07     | 46.40                | 54.00                 | 7.60        |
| 4 802.920       | 51.71                | Peak          | V               | 31.30       | 16.30      | 42.24    | 0.00     | 57.07                | 74.00                 | 16.93       |
| 4 804.360       | 39.70                | Average       | V               | 31.30       | 16.30      | 42.24    | 1.07     | 46.13                | 54.00                 | 7.87        |

| Channel         | CH 39                |               | Frequency(MHz)  |             | 2 441      |          |          | Mode                 | 1 Mbps                |             |
|-----------------|----------------------|---------------|-----------------|-------------|------------|----------|----------|----------------------|-----------------------|-------------|
| Frequency (MHz) | Reading (dB $\mu$ V) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | D.F (dB) | Total (dB $\mu$ V/m) | Limits (dB $\mu$ V/m) | Margin (dB) |
| 4 881.020       | 51.29                | Peak          | H               | 31.36       | 16.34      | 42.24    | 0.00     | 56.75                | 74.00                 | 17.25       |
| 4 884.080       | 39.87                | Average       | H               | 31.37       | 16.34      | 42.24    | 1.07     | 46.41                | 54.00                 | 7.59        |
| 4 881.680       | 51.59                | Peak          | V               | 31.36       | 16.34      | 42.24    | 0.00     | 57.05                | 74.00                 | 16.95       |
| 4 882.070       | 40.20                | Average       | V               | 31.36       | 16.34      | 42.24    | 1.07     | 46.73                | 54.00                 | 7.27        |

| Channel         | CH 78                |               | Frequency(MHz)  |             | 2 480      |          |          | Mode                 | 1 Mbps                |             |
|-----------------|----------------------|---------------|-----------------|-------------|------------|----------|----------|----------------------|-----------------------|-------------|
| Frequency (MHz) | Reading (dB $\mu$ V) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | D.F (dB) | Total (dB $\mu$ V/m) | Limits (dB $\mu$ V/m) | Margin (dB) |
| 4 959.550       | 51.56                | Peak          | H               | 31.54       | 16.27      | 42.24    | 0.00     | 57.13                | 74.00                 | 16.87       |
| 4 960.220       | 39.87                | Average       | H               | 31.54       | 16.27      | 42.24    | 1.07     | 46.51                | 54.00                 | 7.49        |
| 4 959.710       | 51.58                | Peak          | V               | 31.54       | 16.27      | 42.24    | 0.00     | 57.15                | 74.00                 | 16.85       |
| 4 960.110       | 40.11                | Average       | V               | 31.54       | 16.27      | 42.24    | 1.07     | 46.75                | 54.00                 | 7.25        |



| Channel            | CH 0              |                  | Frequency(MHz)     |                | 2 402         |             |             | Mode              | 2 Mbps             |                |
|--------------------|-------------------|------------------|--------------------|----------------|---------------|-------------|-------------|-------------------|--------------------|----------------|
| Frequency<br>(MHz) | Reading<br>(dBμV) | Detector<br>Mode | Ant. Pol.<br>(H/V) | Ant.<br>Factor | Cable<br>Loss | AMP<br>Gain | D.F<br>(dB) | Total<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) |
| 4 802.700          | 51.22             | Peak             | H                  | 31.30          | 16.30         | 42.24       | 0.00        | 56.58             | 74.00              | 17.42          |
| 4 803.120          | 39.69             | Average          | H                  | 31.30          | 16.30         | 42.24       | 1.14        | 46.19             | 54.00              | 7.81           |
| 4 803.560          | 50.75             | Peak             | V                  | 31.30          | 16.30         | 42.24       | 0.00        | 56.11             | 74.00              | 17.89          |
| 4 802.320          | 39.57             | Average          | V                  | 31.30          | 16.30         | 42.24       | 1.14        | 46.07             | 54.00              | 7.93           |

| Channel            | CH 39             |                  | Frequency(MHz)     |                | 2 441         |             |             | Mode              | 2 Mbps             |                |
|--------------------|-------------------|------------------|--------------------|----------------|---------------|-------------|-------------|-------------------|--------------------|----------------|
| Frequency<br>(MHz) | Reading<br>(dBμV) | Detector<br>Mode | Ant. Pol.<br>(H/V) | Ant.<br>Factor | Cable<br>Loss | AMP<br>Gain | D.F<br>(dB) | Total<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) |
| 4 882.070          | 50.98             | Peak             | H                  | 31.36          | 16.34         | 42.24       | 0.00        | 56.44             | 74.00              | 17.56          |
| 4 881.420          | 39.56             | Average          | H                  | 31.36          | 16.34         | 42.24       | 1.14        | 46.16             | 54.00              | 7.84           |
| 4 880.480          | 51.40             | Peak             | V                  | 31.36          | 16.34         | 42.24       | 0.00        | 56.86             | 74.00              | 17.14          |
| 4 880.010          | 39.62             | Average          | V                  | 31.36          | 16.34         | 42.24       | 1.14        | 46.22             | 54.00              | 7.78           |

| Channel            | CH 78             |                  | Frequency(MHz)     |                | 2 480         |             |             | Mode              | 2 Mbps             |                |
|--------------------|-------------------|------------------|--------------------|----------------|---------------|-------------|-------------|-------------------|--------------------|----------------|
| Frequency<br>(MHz) | Reading<br>(dBμV) | Detector<br>Mode | Ant. Pol.<br>(H/V) | Ant.<br>Factor | Cable<br>Loss | AMP<br>Gain | D.F<br>(dB) | Total<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) |
| 4 958.830          | 51.14             | Peak             | H                  | 31.54          | 16.27         | 42.24       | 0.00        | 56.71             | 74.00              | 17.29          |
| 4 957.570          | 39.65             | Average          | H                  | 31.53          | 16.27         | 42.24       | 1.14        | 46.35             | 54.00              | 7.65           |
| 4 959.940          | 51.36             | Peak             | V                  | 31.54          | 16.27         | 42.24       | 0.00        | 56.93             | 74.00              | 17.07          |
| 4 960.170          | 39.56             | Average          | V                  | 31.54          | 16.27         | 42.24       | 1.14        | 46.27             | 54.00              | 7.73           |

| Channel         | CH 0           |               | Frequency(MHz)  |             | 2 402      |          |          | Mode           | 3 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 4 802.450       | 50.81          | Peak          | H               | 31.30       | 16.30      | 42.24    | 0.00     | 56.17          | 74.00           | 17.83       |
| 4 806.390       | 39.38          | Average       | H               | 31.30       | 16.30      | 42.24    | 1.14     | 45.88          | 54.00           | 8.12        |
| 4 806.310       | 51.04          | Peak          | V               | 31.30       | 16.30      | 42.24    | 0.00     | 56.40          | 74.00           | 17.60       |
| 4 803.060       | 39.32          | Average       | V               | 31.30       | 16.30      | 42.24    | 1.14     | 45.82          | 54.00           | 8.18        |

| Channel         | CH 39          |               | Frequency(MHz)  |             | 2 441      |          |          | Mode           | 3 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 4 882.190       | 51.01          | Peak          | H               | 31.36       | 16.34      | 42.24    | 0.00     | 56.47          | 74.00           | 17.53       |
| 4 881.810       | 39.37          | Average       | H               | 31.36       | 16.34      | 42.24    | 1.14     | 45.97          | 54.00           | 8.03        |
| 4 882.530       | 51.11          | Peak          | V               | 31.37       | 16.34      | 42.24    | 0.00     | 56.58          | 74.00           | 17.42       |
| 4 882.770       | 39.35          | Average       | V               | 31.37       | 16.34      | 42.24    | 1.14     | 45.96          | 54.00           | 8.04        |

| Channel         | CH 78          |               | Frequency(MHz)  |             | 2 480      |          |          | Mode           | 3 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 4 959.210       | 51.03          | Peak          | H               | 31.54       | 16.27      | 42.24    | 0.00     | 56.60          | 74.00           | 17.40       |
| 4 958.800       | 39.36          | Average       | H               | 31.54       | 16.27      | 42.24    | 1.14     | 46.07          | 54.00           | 7.93        |
| 4 961.020       | 51.14          | Peak          | V               | 31.54       | 16.27      | 42.24    | 0.00     | 56.71          | 74.00           | 17.29       |
| 4 961.320       | 39.42          | Average       | V               | 31.55       | 16.27      | 42.24    | 1.14     | 46.14          | 54.00           | 7.86        |

### 9.11 Radiated Restrictd Band Edge

- Remark: “H”: Horizontal, “V”: Vertical
- Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)
- D.F (dB) = Duty Factor(dB)

#### 9.11.1 Test data

| Channel         | CH 0           |               | Frequency(MHz)  |             |            | 2 402    |          |          | Mode           | 1 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | ATT (dB) | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 2 387.43        | 56.55          | Peak          | H               | 27.43       | 8.79       | 42.75    | 10.28    | -        | 60.30          | 74.00           | 13.70       |
| 2 385.50        | 43.81          | Average       | H               | 27.43       | 8.79       | 42.76    | 10.28    | 1.07     | 48.62          | 54.00           | 5.38        |
| 2 328.43        | 53.82          | Peak          | V               | 27.59       | 8.62       | 42.77    | 10.28    | 0.00     | 57.54          | 74.00           | 16.46       |
| 2 381.09        | 42.13          | Average       | V               | 27.44       | 8.79       | 42.76    | 10.28    | 1.07     | 46.95          | 54.00           | 7.05        |

| Channel         | CH 78          |               | Frequency(MHz)  |             |            | 2 480    |          |          | Mode           | 1 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | ATT (dB) | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 2 490.68        | 55.15          | Peak          | H               | 27.40       | 9.01       | 42.73    | 10.28    | 0.00     | 59.11          | 74.00           | 14.89       |
| 2 494.66        | 43.40          | Average       | H               | 27.40       | 9.01       | 42.73    | 10.28    | 1.07     | 48.43          | 54.00           | 5.57        |
| 2 484.23        | 53.91          | Peak          | V               | 27.40       | 9.01       | 42.73    | 10.28    | 0.00     | 57.87          | 74.00           | 16.13       |
| 2 497.95        | 42.11          | Average       | V               | 27.40       | 9.01       | 42.73    | 10.28    | 1.07     | 47.14          | 54.00           | 6.86        |

| Channel         | CH 0           |               | Frequency(MHz)  |             |            | 2 402    |          |          | Mode           | 2 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | ATT (dB) | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 2 323.83        | 53.44          | Peak          | H               | 27.60       | 8.62       | 42.77    | 10.28    | 0.00     | 57.17          | 74.00           | 16.83       |
| 2 357.93        | 41.87          | Average       | H               | 27.48       | 8.79       | 42.76    | 10.28    | 1.14     | 46.80          | 54.00           | 7.20        |
| 2 351.68        | 53.92          | Peak          | V               | 27.50       | 8.79       | 42.76    | 10.28    | 0.00     | 57.73          | 74.00           | 16.27       |
| 2 369.97        | 42.01          | Average       | V               | 27.46       | 8.79       | 42.76    | 10.28    | 1.14     | 46.92          | 54.00           | 7.08        |

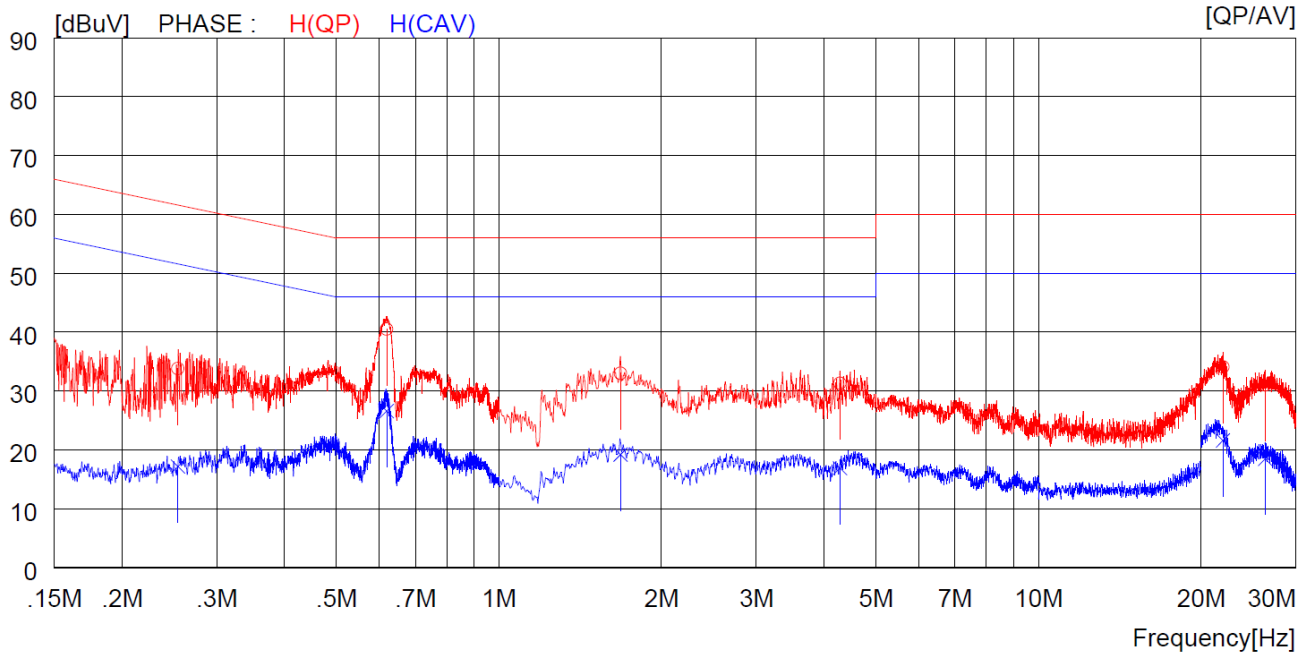
| Channel         | CH 78          |               | Frequency(MHz)  |             |            | 2 480    |          |          | Mode           | 2 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | ATT (dB) | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 2 483.67        | 60.31          | Peak          | H               | 27.40       | 9.01       | 42.73    | 10.28    | 0.00     | 64.27          | 74.00           | 9.73        |
| 2 483.71        | 43.18          | Average       | H               | 27.40       | 9.01       | 42.73    | 10.28    | 1.14     | 48.28          | 54.00           | 5.72        |
| 2 483.93        | 55.21          | Peak          | V               | 27.40       | 9.01       | 42.73    | 10.28    | 0.00     | 59.17          | 74.00           | 14.83       |
| 2 484.84        | 41.95          | Average       | V               | 27.40       | 9.01       | 42.73    | 10.28    | 1.14     | 47.05          | 54.00           | 6.95        |

| Channel         | CH 0           |               | Frequency(MHz)  |             |            | 2 402    |          |          | Mode           | 3 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | ATT (dB) | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 2 389.55        | 54.59          | Peak          | H               | 27.42       | 8.79       | 42.75    | 10.28    | 0.00     | 58.33          | 74.00           | 15.67       |
| 2 389.46        | 42.28          | Average       | H               | 27.42       | 8.79       | 42.75    | 10.28    | 1.14     | 47.16          | 54.00           | 6.84        |
| 2 322.82        | 53.25          | Peak          | V               | 27.61       | 8.62       | 42.77    | 10.28    | 0.00     | 56.99          | 74.00           | 17.01       |
| 2 332.93        | 41.96          | Average       | V               | 27.57       | 8.62       | 42.77    | 10.28    | 1.14     | 46.80          | 54.00           | 7.20        |

| Channel         | CH 78          |               | Frequency(MHz)  |             |            | 2 480    |          |          | Mode           | 3 Mbps          |             |
|-----------------|----------------|---------------|-----------------|-------------|------------|----------|----------|----------|----------------|-----------------|-------------|
| Frequency (MHz) | Reading (dBμV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | AMP Gain | ATT (dB) | D.F (dB) | Total (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 2 483.51        | 58.99          | Peak          | H               | 27.40       | 9.01       | 42.73    | 10.28    | 0.00     | 62.95          | 74.00           | 11.05       |
| 2 484.41        | 42.69          | Average       | H               | 27.40       | 9.01       | 42.73    | 10.28    | 1.14     | 47.79          | 54.00           | 6.21        |
| 2 486.68        | 58.79          | Peak          | V               | 27.40       | 9.01       | 42.73    | 10.28    | 0.00     | 62.75          | 74.00           | 11.25       |
| 2 484.57        | 41.76          | Average       | V               | 27.40       | 9.01       | 42.73    | 10.28    | 1.14     | 46.86          | 54.00           | 7.14        |

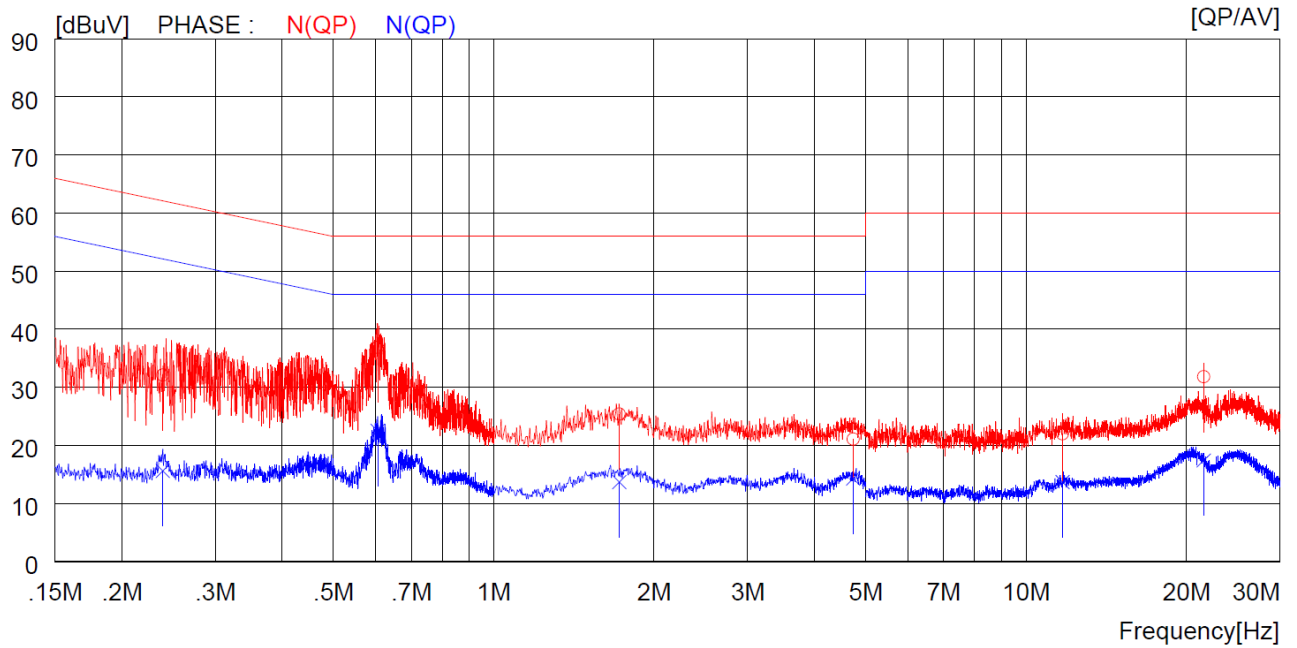
## 9.12 AC Power line Conducted Emissions

-. Tested Line : HOT LINE



| NO | FREQ<br>[MHz] | READING      |              | C.FACTOR<br>[dB] | RESULT       |              | LIMIT        |              | MARGIN       |              | PHASE   |
|----|---------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|
|    |               | QP<br>[dBuV] | AV<br>[dBuV] |                  | QP<br>[dBuV] | AV<br>[dBuV] | QP<br>[dBuV] | AV<br>[dBuV] | QP<br>[dBuV] | AV<br>[dBuV] |         |
| 1  | 0.25400       | 23.8         | ----         | 10.0             | 33.8         | ----         | 61.6         | ----         | 27.8         | ----         | H (QP)  |
| 2  | 0.61900       | 30.5         | ----         | 10.0             | 40.5         | ----         | 56.0         | ----         | 15.5         | ----         | H (QP)  |
| 3  | 1.68000       | 22.9         | ----         | 10.1             | 33.0         | ----         | 56.0         | ----         | 23.0         | ----         | H (QP)  |
| 4  | 4.28400       | 21.2         | ----         | 10.1             | 31.3         | ----         | 56.0         | ----         | 24.7         | ----         | H (QP)  |
| 5  | 21.96000      | 23.4         | ----         | 10.7             | 34.1         | ----         | 60.0         | ----         | 25.9         | ----         | H (QP)  |
| 6  | 26.31000      | 20.2         | ----         | 10.8             | 31.0         | ----         | 60.0         | ----         | 29.0         | ----         | H (QP)  |
| 7  | 0.25400       | ----         | 7.2          | 10.0             | ----         | 17.2         | ----         | 51.6         | ----         | 34.4         | H (CAV) |
| 8  | 0.61900       | ----         | 16.6         | 10.0             | ----         | 26.6         | ----         | 46.0         | ----         | 19.4         | H (CAV) |
| 9  | 1.68000       | ----         | 9.1          | 10.1             | ----         | 19.2         | ----         | 46.0         | ----         | 26.8         | H (CAV) |
| 10 | 4.28400       | ----         | 6.8          | 10.1             | ----         | 16.9         | ----         | 46.0         | ----         | 29.1         | H (CAV) |
| 11 | 21.96000      | ----         | 10.9         | 10.7             | ----         | 21.6         | ----         | 50.0         | ----         | 28.4         | H (CAV) |
| 12 | 26.31000      | ----         | 7.7          | 10.8             | ----         | 18.5         | ----         | 50.0         | ----         | 31.5         | H (CAV) |

-. Tested Line : NEUTRAL LINE



| NO | FREQ<br>[MHz] | READING      |              | C.FACTOR<br>[dB] | RESULT       |              | LIMIT        |              | MARGIN       |              | PHASE   |
|----|---------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|
|    |               | QP<br>[dBuV] | AV<br>[dBuV] |                  | QP<br>[dBuV] | AV<br>[dBuV] | QP<br>[dBuV] | AV<br>[dBuV] | QP<br>[dBuV] | AV<br>[dBuV] |         |
| 1  | 0.23900       | 22.1         | ----         | 10.0             | 32.1         | ----         | 62.1         | ----         | 30.0         | ----         | N (QP)  |
| 2  | 0.60500       | 26.9         | ----         | 10.0             | 36.9         | ----         | 56.0         | ----         | 19.1         | ----         | N (QP)  |
| 3  | 1.72000       | 15.3         | ----         | 10.1             | 25.4         | ----         | 56.0         | ----         | 30.6         | ----         | N (QP)  |
| 4  | 4.73200       | 10.9         | ----         | 10.2             | 21.1         | ----         | 56.0         | ----         | 34.9         | ----         | N (QP)  |
| 5  | 11.71000      | 11.6         | ----         | 10.4             | 22.0         | ----         | 60.0         | ----         | 38.0         | ----         | N (QP)  |
| 6  | 21.57000      | 21.2         | ----         | 10.6             | 31.8         | ----         | 60.0         | ----         | 28.2         | ----         | N (QP)  |
| 7  | 0.23900       | ----         | 5.6          | 10.0             | ----         | 15.6         | ----         | 52.1         | ----         | 36.5         | N (CAV) |
| 8  | 0.60500       | ----         | 12.5         | 10.0             | ----         | 22.5         | ----         | 46.0         | ----         | 23.5         | N (CAV) |
| 9  | 1.72000       | ----         | 3.6          | 10.1             | ----         | 13.7         | ----         | 46.0         | ----         | 32.3         | N (CAV) |
| 10 | 4.73200       | ----         | 4.1          | 10.2             | ----         | 14.3         | ----         | 46.0         | ----         | 31.7         | N (CAV) |
| 11 | 11.71000      | ----         | 3.3          | 10.4             | ----         | 13.7         | ----         | 50.0         | ----         | 36.3         | N (CAV) |
| 12 | 21.57000      | ----         | 6.8          | 10.6             | ----         | 17.4         | ----         | 50.0         | ----         | 32.6         | N (CAV) |

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.