# Radio Test Report

## *FCC ID: 2A7ZM-ILLUMINATOQ4*

| | | |
|---|---|---|
| **Report No.** | : | TBR-C-202209-0005-143 |
| **Applicant** | : | JBU GLOBAL LLC |
| **Equipment Under Test (EUT)** | | |
| **EUT Name** | : | Illuminato Q4 |
| **Model No.** | : | Illuminato Q4 |
| **Series Model No.** | : | ---- |
| **Brand Name** | : | MASINGO |
| **Sample ID** | : | RW-C-202209-0005-9-1#& RW-C-202209-0005-9-2# |
| **Receipt Date** | : | 2022-11-24 |
| **Test Date** | : | 2022-11-24 to 2022-12-12 |
| **Issue Date** | : | 2023-01-11 |
| **Standards** | : | FCC Part 15 Subpart C 15.247 |
| **Test Method** | : | ANSI C63.10: 2013<br>KDB 558074 D01 15.247 Meas Guidance v05r02 |
| **Conclusions** | : | **PASS**<br>In the configuration tested, the EUT complied with the standards specified above. |
| **Witness Engineer** | : | Wade. Lv |
| **Engineer Supervisor** | : | IVAN SU |
| **Engineer Manager** | : | Ray Lai |

Wade. Lv

Ivan Su

Ray Lai

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.



1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Tel: +86 75526509301 Fax: +86 75526509195

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# Revision History

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| TBR-C-202209-0005-143 | Rev.01 | Initial issue of report | 2023-01-11 |
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# 1. General Information about EUT

## 1.1 Client Information

| | | |
|---|---|---|
| **Applicant** | : | JBU GLOBAL LLC |
| **Address** | : | 19416 NE 26th AVE, 114B, Miami Florida 33180 United States |
| **Manufacturer** | : | SHENZHEN SVR TECHNOLOGY CO., LTD. |
| **Address** | : | 706B, Haosheng Business Center, 4096 Dongbin Road, Nanshan District, Shenzhen.China. |

## 1.2 General Description of EUT (Equipment Under Test)

| | | | |
|---|---|---|---|
| **EUT Name** | : | Illuminato Q4 | |
| **Models No.** | : | Illuminato Q4 | |
| **Model Different** | : | ---- | |
| **Product Description** | : | Operation Frequency: | 802.11b/g/n(HT20): 2412MHz~2462MHz<br>802.11n(HT40): 2422MHz~2452MHz |
| | | Number of Channel: | 802.11b/g/n(HT20):11 channels<br>802.11n(HT40): 7 channels |
| | | Antenna Gain: | 1.48dBi Internal Antenna |
| | | Modulation Type: | 802.11b: DSSS(CCK, DQPSK, DBPSK)<br>802.11g/n:OFDM(BPSK,QPSK,16QAM,64 QAM) |
| | | Bit Rate of Transmitter: | 802.11b:11/5.5/2/1 Mbps<br>802.11g:54/48/36/24/18/12/9/6 Mbps<br>802.11n:up to 150Mbps |
| **Power Rating** | : | Adapter (BSG-100W1506000)<br>Input: AC 100-240V~ 50/60Hz 2A Max<br>Output: 15V⎓6A<br>DC 11.1V by 10000mAh Rechargeable Li-ion battery | |
| **Software Version** | : | 7.1.2 | |
| **Hardware Version** | : | KP503_141_V1.0 | |

**Remark:**

(1)The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.

(2)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

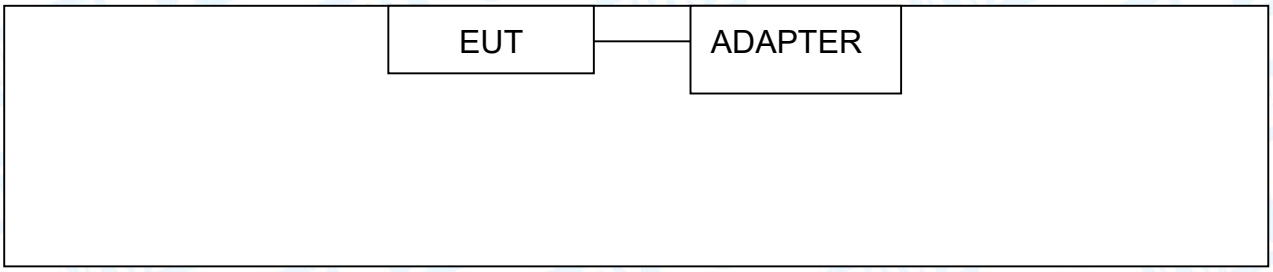
(3)Antenna information provided by the applicant.

(4)Channel List:

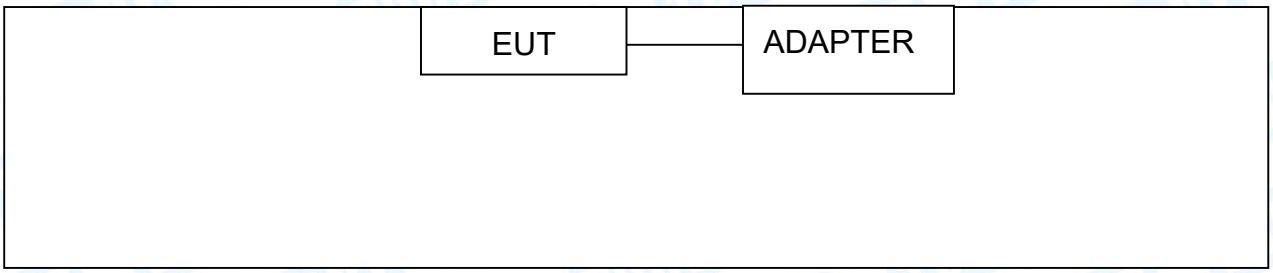
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|---|---|
| **01** | **2412** | 05 | 2432 | 09 | 2452 |
| 02 | 2417 | **06** | **2437** | 10 | 2457 |
| 03 | 2422 | 07 | 2442 | **11** | **2462** |
| 04 | 2427 | 08 | 2447 | | |
| **Note: CH 01~CH 11 for 802.11b/g/n(HT20)**<br>**CH 03~CH 09 for 802.11n(HT40)** | | | | | |

## 1.3 Block Diagram Showing the Configuration of System Tested

**Conducted Test**




**Radiated Test**



## 1.4 Description of Support Units

| Equipment Information | | | | |
|---|---|---|---|---|
| **Name** | **Model** | **FCC ID/SDOC** | **Manufacturer** | **Used "√"** |
| Adapter | BSG-100W1506000 | ---- | BOSHENGGAO | √ |
| **Cable Information** | | | | |
| **Number** | **Shielded Type** | **Ferrite Core** | **Length** | **Note** |
| Cable 1 | Yes | NO | 1.0M | Accessory |
| Remark: The adapter provided by the Applicant. | | | | |

## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

| For Conducted Emission Test | |
|---|---|
| **Final Test Mode** | **Description** |
| Mode 1 | TX b Mode Channel 01 |
| **For Radiated and RF Conducted Test** | |
| **Final Test Mode** | **Description** |
| Mode 2 | TX Mode b Mode Channel 01/06/11 |
| Mode 3 | TX Mode g Mode Channel 01/06/11 |
| Mode 4 | TX Mode n(HT20) Mode Channel 01/06/11 |
| Mode 5 | TX Mode n(HT40) Mode Channel 03/06/09 |

**Note:**

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK

802.11g Mode: OFDM

802.11n (HT20) Mode: MCS 0

802.11n (HT40) Mode: MCS 0

(2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.

(3) The EUT is considered a Mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

| **Test Software: SecureCRT.exe** | | | |
|---|---|---|---|
| | **Test Mode:** Continuously transmitting | | |
| **Mode** | **Data Rate** | **Channel** | **Parameters** |
| **802.11b** | CCK/ 1Mbps | 01 | 41 |
| | CCK/ 1Mbps | 06 | 41 |
| | CCK/ 1Mbps | 11 | 42 |
| **802.11g** | OFDM/ 6Mbps | 01 | 40 |
| | OFDM/ 6Mbps | 06 | 41 |
| | OFDM/ 6Mbps | 11 | 41 |
| **802.11n(HT20)** | MCS 0 | 01 | 44 |
| | MCS 0 | 06 | 52 |
| | MCS 0 | 11 | 44 |
| **802.11n(HT40)** | MCS 0 | 03 | 42 |
| | MCS 0 | 06 | 58 |
| | MCS 0 | 09 | 40 |

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement y±U，where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %.

| Test Item | Parameters | Expanded Uncertainty ($U_{Lab}$) |
|---|---|---|
| Conducted Emission | Level Accuracy:<br>9kHz~150kHz<br>150kHz to 30MHz | ±3.50 dB<br>±3.10 dB |
| Radiated Emission | Level Accuracy:<br>9kHz to 30 MHz | ±4.60 dB |
| Radiated Emission | Level Accuracy:<br>30MHz to 1000 MHz | ±4.50 dB |
| Radiated Emission | Level Accuracy:<br>Above 1000MHz | ±4.20 dB |

## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

**CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

**A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

**IC Registration No.: (11950A)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

# 2. Test Summary

| Standard Section FCC | Test Item | Test Sample(s) | Judgment | Remark |
|---|---|---|---|---|
| FCC 15.207(a) | Conducted Emission | RW-C-202209-0005-9-1# | PASS | N/A |
| FCC 15.209 & 15.247(d) | Radiated Unwanted Emissions | RW-C-202209-0005-9-1# | PASS | N/A |
| FCC 15.203 | Antenna Requirement | RW-C-202209-0005-9-2# | PASS | N/A |
| FCC 15.247(a)(2) | 6dB Bandwidth | RW-C-202209-0005-9-2# | PASS | N/A |
| / | 99% Occupied bandwidth | RW-C-202209-0005-9-2# | PASS | N/A |
| FCC 15.247(b)(3) | Peak Output Power and E.I.R.P | RW-C-202209-0005-9-2# | PASS | N/A |
| FCC 15.247(e) | Power Spectral Density | RW-C-202209-0005-9-2# | PASS | N/A |
| FCC 15.247(d) | Band Edge Measurements | RW-C-202209-0005-9-2# | PASS | N/A |
| FCC 15.207(a) | Conducted Unwanted Emissions | RW-C-202209-0005-9-2# | PASS | N/A |
| FCC 15.247(d) | Emissions in Restricted Bands | RW-C-202209-0005-9-2# | PASS | N/A |
| / | On Time and Duty Cycle | RW-C-202209-0005-9-2# | / | N/A |

**Note:** N/A is an abbreviation for Not Applicable.

# 3. Test Software

| Test Item | Test Software | Manufacturer | Version No. |
|---|---|---|---|
| Conducted Emission | EZ-EMC | EZ | CDI-03A2 |
| Radiation Emission | EZ-EMC | EZ | FA-03A2RE |
| Radiation Emission | EZ-EMC | EZ | FA-03A2RE+ |
| RF Conducted Measurement | MTS-8310 | MWRFtest | V2.0.0.0 |
| RF Test System | JS1120-3 | Tonscend | V3.2.22 |

# 4. Test Equipment

| Conducted Emission Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Last Cal.** | **Cal. Due Date** |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100321 | Jun. 23, 2022 | Jun. 22, 2023 |
| RF Switching Unit | Compliance Direction Systems Inc | RSU-A4 | 34403 | Jun. 23, 2022 | Jun. 22, 2023 |
| AMN | SCHWARZBECK | NNBL 8226-2 | 8226-2/164 | Jun. 22, 2022 | Jun. 21, 2023 |
| LISN | Rohde & Schwarz | ENV216 | 101131 | Jun. 22, 2022 | Jun. 21, 2023 |
| ISN | SCHWARZBECK | NTFM 8131 | 8131-193 | Jun. 22, 2022 | Jun. 21, 2023 |
| ISN | SCHWARZBECK | CAT3 8158 | cat3 5158-0094 | Jun. 22, 2022 | Jun. 21, 2023 |
| ISN | SCHWARZBECK | NTFM5158 | NTFM5158 0145 | Jun. 22, 2022 | Jun. 21, 2023 |
| ISN | SCHWARZBECK | CAT 8158 | cat5 8158-179 | Jun. 22, 2022 | Jun. 21, 2023 |
| **Radiation Emission Test (A Site)** | | | | | |
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Last Cal.** | **Cal. Due Date** |
| Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102197 | Jun. 23, 2022 | Jun. 22, 2023 |
| EMI Test Receiver | Rohde & Schwarz | ESPI | 100010/007 | Jun. 23, 2022 | Jun. 22, 2023 |
| Bilog Antenna | ETS-LINDGREN | 3142E | 00117537 | Feb. 27, 2022 | Feb.26, 2024 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00143207 | Feb. 26, 2022 | Feb.25, 2024 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 1118 | Feb. 26, 2022 | Feb.25, 2024 |
| Loop Antenna | SCHWARZBECK | FMZB 1519 B | 1519B-059 | Feb. 26, 2022 | Feb.25, 2024 |
| Pre-amplifier | SONOMA | 310N | 185903 | Feb. 26, 2022 | Feb.25, 2023 |
| Pre-amplifier | HP | 8449B | 3008A00849 | Feb. 26, 2022 | Feb.25, 2023 |
| HF Amplifier | Tonscend | TAP0184050 | AP21C806129 | Sep.01.2022 | Aug. 31, 2023 |
| **Radiation Emission Test (B Site)** | | | | | |
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Last Cal.** | **Cal. Due Date** |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Sep.01.2022 | Aug. 31, 2023 |
| Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102197 | Jun. 23, 2022 | Jun. 22, 2023 |
| EMI Test Receiver | Rohde & Schwarz | ESU-8 | 100472/008 | Feb. 26, 2022 | Feb.25, 2023 |
| Bilog Antenna | SCHWARZBECK | VULB 9168 | 1225 | Dec. 05, 2021 | Dec. 04, 2023 |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 2463 | Feb. 26, 2022 | Feb.25, 2024 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 1118 | Jun. 26, 2022 | Jun.25, 2024 |
| Loop Antenna | SCHWARZBECK | FMZB 1519 B | 1519B-059 | Jun. 26, 2022 | Jun.25, 2024 |
| HF Amplifier | Tonscend | TAP9E6343 | AP21C806117 | Sep.01.2022 | Aug. 31, 2023 |
| HF Amplifier | Tonscend | TAP051845 | AP21C806141 | Sep.01.2022 | Aug. 31, 2023 |
| HF Amplifier | Tonscend | TAP0184050 | AP21C806129 | Sep.01.2022 | Aug. 31, 2023 |

| Antenna Conducted Emission | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Last Cal.** | **Cal. Due Date** |
| Spectrum Analyzer | Agilent | E4407B | MY45106456 | Jun. 23, 2022 | Jun. 22, 2023 |
| Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102197 | Jun. 23, 2022 | Jun. 22, 2023 |
| MXA Signal Analyzer | KEYSIGT | N9020B | MY60110172 | Sep. 01, 2022 | Aug. 31, 2023 |
| MXA Signal Analyzer | Agilent | N9020A | MY47380425 | Sep. 01, 2022 | Aug. 31, 2023 |
| Vector Signal Generator | Agilent | N5182A | MY50141294 | Sep. 01, 2022 | Aug. 31, 2023 |
| Analog Signal Generator | Agilent | N5181A | MY48180463 | Sep. 01, 2022 | Aug. 31, 2023 |
| Vector Signal Generator | KEYSIGT | N5182B | MY59101429 | Sep. 01, 2022 | Aug. 31, 2023 |
| Analog Signal Generator | KEYSIGHT | N5173B | MY61252685 | Dec. 16, 2021 | Dec. 15, 2022 |
| RF Power Sensor | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO26 | Sep. 01, 2022 | Aug. 31, 2023 |
| | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO29 | Sep. 01, 2022 | Aug. 31, 2023 |
| | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO31 | Sep. 01, 2022 | Aug. 31, 2023 |
| | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO33 | Sep. 01, 2022 | Aug. 31, 2023 |
| RF Control Unit | Tonsced | JS0806-1 | 21C8060380 | N/A | N/A |
| RF Control Unit | Tonsced | JS0806-2 | 21F8060439 | Sep. 01, 2022 | Aug. 31, 2023 |
| Band Reject Filter Group | Tonsced | JS0806-F | 21D8060414 | Jun. 23, 2022 | Jun. 22, 2023 |
| Power Control Box | Tonsced | JS0806-4ADC | 21C8060387 | N/A | N/A |
| Wideband Radio Comunication Tester | Rohde & Schwarz | CMW500 | 144382 | Sep. 01, 2022 | Aug. 31, 2023 |
| Universal Radio Communication Tester | Rohde&Schwarz | CMW500 | 168796 | Jun. 23, 2022 | Jun. 22, 2023 |
| Temperature and Humidity Chamber | ZhengHang | ZH-QTH-1500 | ZH2107264 | Jun. 22, 2022 | Jun. 21, 2023 |

# 5. Conducted Emission Test

## 5.1 Test Standard and Limit

### 5.1.1 Test Standard

**FCC Part 15.207**

### 5.1.2 Test Limit

| Frequency | Maximum RF Line Voltage (dBμV) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

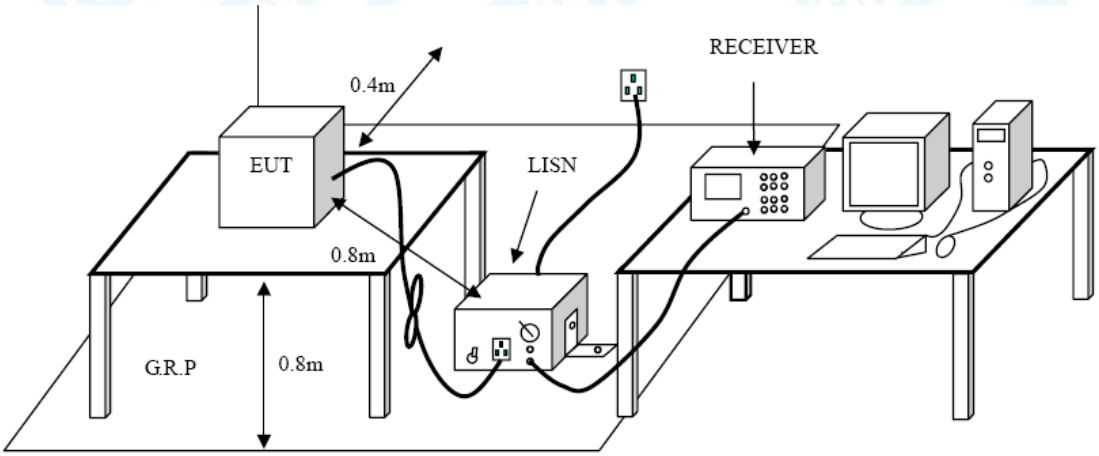
**Notes:**

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 5.2 Test Setup




## 5.3 Test Procedure

●The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

●Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

●I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

●LISN at least 80 cm from nearest part of EUT chassis.

●The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

## 5.4 Deviation From Test Standard

No deviation

## 5.5 EUT Operating Mode

Please refer to the description of test mode.

## 5.6 Test Data

Please refer to the Attachment A inside test report.

# 6. Radiated and Conducted Unwanted Emissions

## 6.1 Test Standard and Limit

### 6.1.1 Test Standard

**FCC Part 15.209 & FCC Part 15.247(d)**

### 6.1.2 Test Limit

| General field strength limits at frequencies Below 30MHz | | | |
|---|---|---|---|
| **Frequency (MHz)** | **Field Strength (μA/m)*** | **Field Strength (microvolt/meter)**** | **Measurement Distance (meters)** |
| 0.009~0.490 | 6.37/F (F in kHz) | 2400/F(KHz) | 300 |
| 0.490~1.705 | 63.7/F (F in kHz) | 24000/F(KHz) | 30 |
| 1.705~30.0 | 0.08 | 30 | 30 |
| **Note:** 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.<br>2, *is for RSS Standard, **is for FCC Standard. | | | |

| General field strength limits at frequencies above 30 MHz | | |
|---|---|---|
| **Frequency (MHz)** | **Field strength (μV/m at 3 m)** | **Measurement Distance (meters)** |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

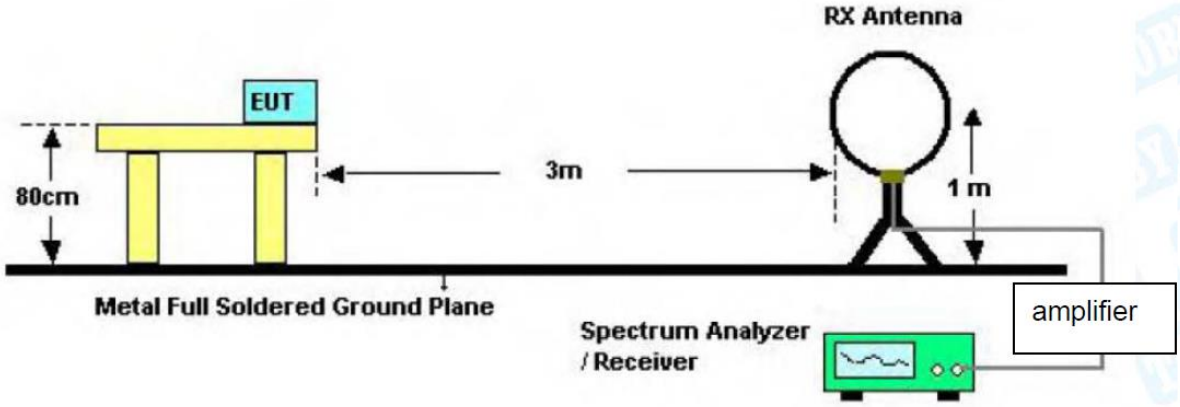
| General field strength limits at frequencies Above 1000MHz | | |
|---|---|---|
| **Frequency (MHz)** | **Distance of 3m (dBuV/m)** | |
| | **Peak** | **Average** |
| Above 1000 | 74 | 54 |
| **Note:**<br>(1) The tighter limit applies at the band edges.<br>(2) Emission Level(dBuV/m)=20log Emission Level(uV/m) | | |

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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,

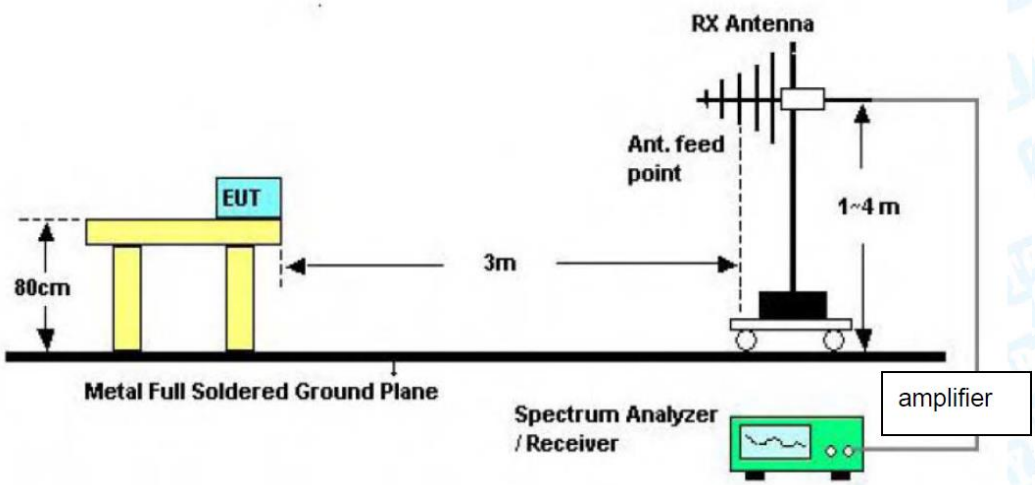
provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

## 6.2 Test Setup

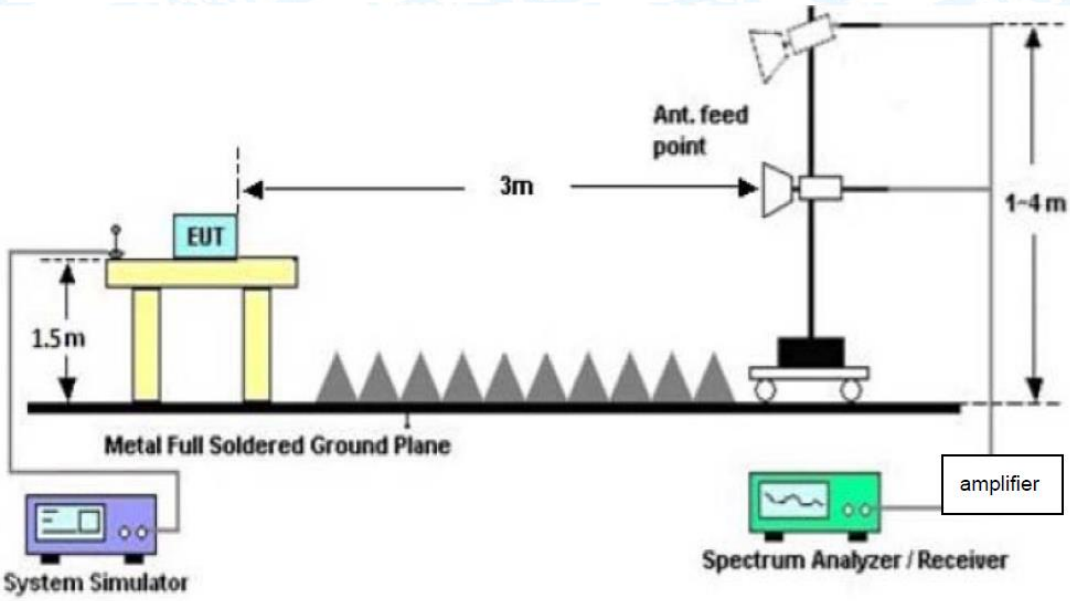
**Radiated measurement**




**Below 30MHz Test Setup**

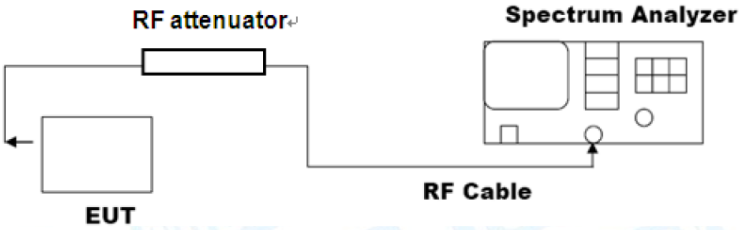



**Below 1000MHz Test Setup**




**Above 1GHz Test Setup**

**Conducted measurement**




## 6.3 Test Procedure

**---Radiated measurement**

●The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.

● Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

● The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

●The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

●If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

●Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.

●Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

●For the actual test configuration, please see the test setup photo.

**--- Conducted measurement**

**●Reference level measurement**

Establish a reference level by using the following procedure:

a) Set instrument center frequency to DTS channel center frequency.

b) Set the span to≥1.5 times the DTS bandwidth.

c) Set the RBW = 100 kHz.

d) Set the VBW≥[3*RBW].

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

**●Emission level measurement**

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

b) Set the RBW = 100 kHz.

c) Set the VBW≥[3*RBW].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

## 6.4 Deviation From Test Standard

No deviation

## 6.5 EUT Operating Mode

Please refer to the description of test mode.

## 6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report.

Conducted measurement please refer to the external appendix report of 2.4G Wi-Fi.

# 7. Restricted Bands Requirement

## 7.1 Test Standard and Limit

### 7.1.1 Test Standard

**FCC Part 15.205 & FCC Part 15.247(d)**

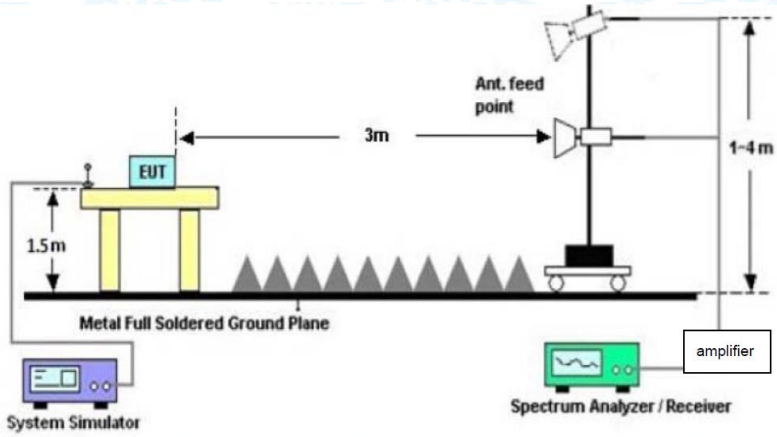
### 7.1.2 Test Limit

| Restricted Frequency Band (MHz) | Distance Meters(at 3m) | |
|---|---|---|
| | Peak (dBuV/m) | Average (dBuV/m) |
| 2310 ~2390 | 74 | 54 |
| 2483.5 ~2500 | 74 | 54 |
| | Peak (dBm)see 7.3 e) | Average (dBm) see 7.3 e) |
| 2310 ~2390 | -21.20 | -41.20 |
| 2483.5 ~2500 | -21.20 | -41.20 |

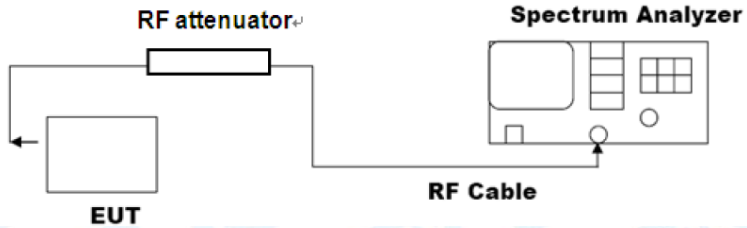
Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test forcabinet/case emissions is required.

## 7.2 Test Setup

**Radiated measurement**




**Conducted measurement**



## 7.3 Test Procedure

**---Radiated measurement**

● Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

● The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

●The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

●The Peak Value and average value both need to comply with applicable limit above 1 GHz.

●Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

●For the actual test configuration, please see the test setup photo.

**--- Conducted measurement**

a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to

determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).

c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies

≤30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for

frequencies > 1000 MHz).

d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).

e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log d + 104.8$$

where

*E* is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

*d* is the specified measurement distance in m

f) Compare the resultant electric field strength level with the applicable regulatory limit.

g) Perform the radiated spurious emission test.

## 7.4 Deviation From Test Standard

No deviation

## 7.5 EUT Operating Mode

Please refer to the description of test mode.

## 7.6 Test Data

Remark: The test uses antenna-port conducted measurements as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements.

Please refer to the external appendix report of 2.4G Wi-Fi.

# 8. Bandwidth Test

## 8.1 Test Standard and Limit

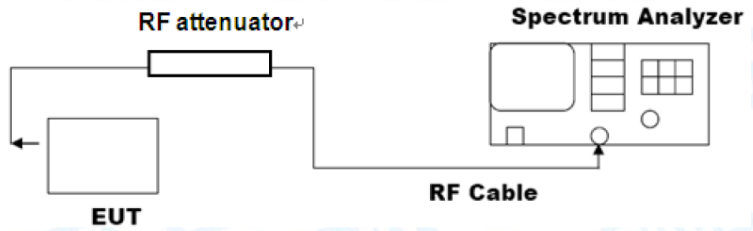
### 8.1.1 Test Standard

**FCC Part 15.205 & FCC Part 15.247(d)**

### 8.1.2 Test Limit

| Test Item | Limit | Frequency Range(MHz) |
|---|---|---|
| -6dB bandwidth (DTS bandwidth ) | >=500 KHz | 2400~2483.5 |
| 99% occupied bandwidth | / | 2400~2483.5 |

## 8.2 Test Setup




## 8.3 Test Procedure

**---DTS bandwidth**

●The steps for the first option are as follows:

a) Set RBW = 100 kHz.

b) Set the VBW≥[3*RBW].

c) Detector = peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**---occupied bandwidth**

●The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times

the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

## 8.4 Deviation From Test Standard

No deviation

## 8.5 EUT Operating Mode

Please refer to the description of test mode.

## 8.6 Test Data

Please refer to the external appendix report of 2.4G Wi-Fi.

# 9. Peak Output Power

## 9.1 Test Standard and Limit

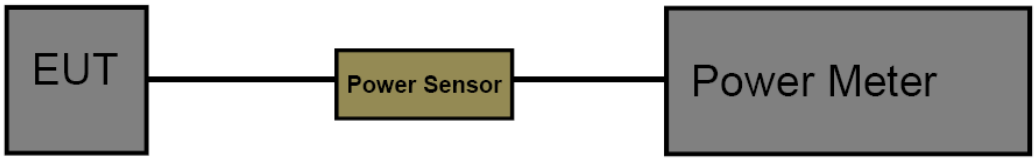
### 9.1.1 Test Standard

**FCC Part 15.247(b)(3)**

### 9.1.2 Test Limit

| Test Item | Limit | Frequency Range(MHz) |
|---|---|---|
| Peak Output Power | not exceed 1 W or 30dBm | 2400~2483.5 |
| E.I.R.P | not exceed 4 W or 36dBm | |

## 9.2 Test Setup




## 9.3 Test Procedure

●The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

## 9.4 Deviation From Test Standard

No deviation

## 9.5 EUT Operating Mode

Please refer to the description of test mode.

## 9.6 Test Data

Please refer to the external appendix report of 2.4G Wi-Fi.

# 10. Power Spectral Density

## 10.1 Test Standard and Limit

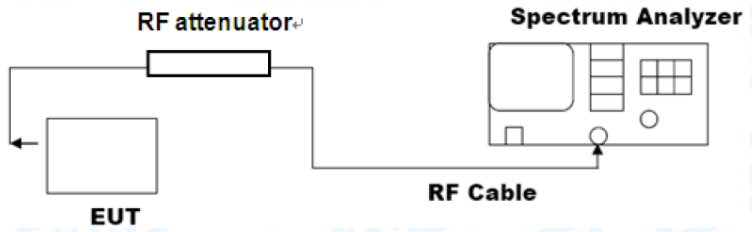
### 10.1.1 Test Standard

**FCC Part 15.247(e)**

### 10.1.2 Test Limit

| Test Item | Limit | Frequency Range(MHz) |
|---|---|---|
| Power Spectral Density | 8dBm(in any 3 kHz) | 2400~2483.5 |

## 10.2 Test Setup




## 10.3 Test Procedure

●The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to 3 kHz≤RBW≤100 kHz.

d) Set the VBW ≥[3*RBW].

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

## 10.4 Deviation From Test Standard

No deviation

## 10.5 Antenna Connected Construction

Please refer to the description of test mode.

## 10.6 Test Data

Please refer to the external appendix report of 2.4G Wi-Fi.

# 11. Antenna Requirement

## 11.1 Test Standard and Limit

### 11.1.1 Test Standard

**FCC Part 15.203**

### 11.1.2 Requirement

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. 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

## 11.2 Deviation From Test Standard

No deviation

## 11.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 1.48dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

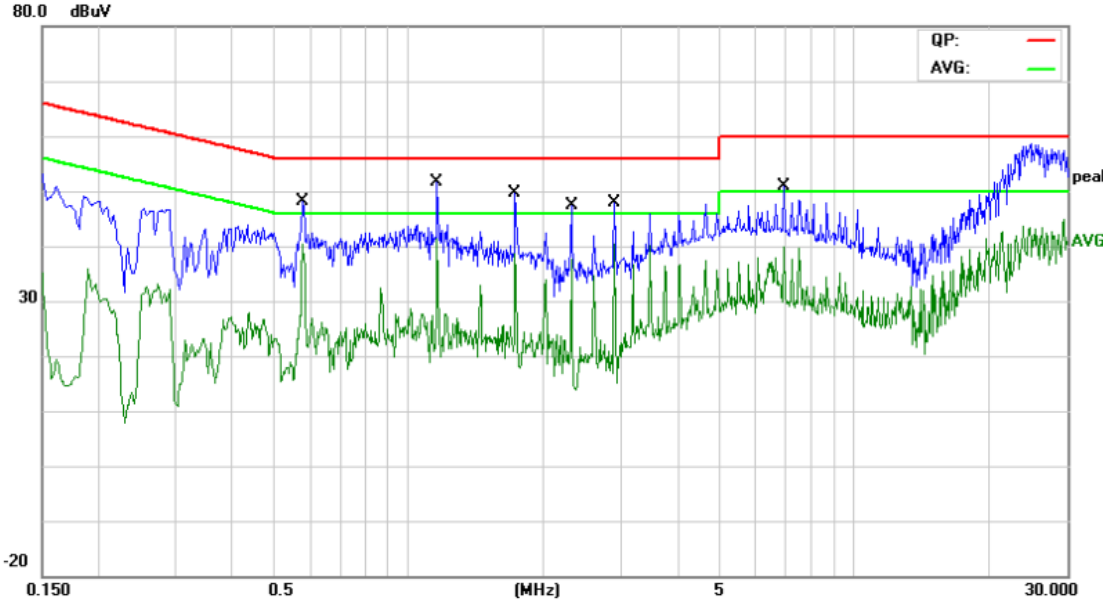
## 11.4 Test Data

The EUT antenna is a Internal Antenna. It complies with the standard requirement.

| Antenna Type |
|---|
| ☒Permanent attached antenna |
| ☐Unique connector antenna |
| ☐Professional installation antenna |

# Attachment A-- Conducted Emission Test Data

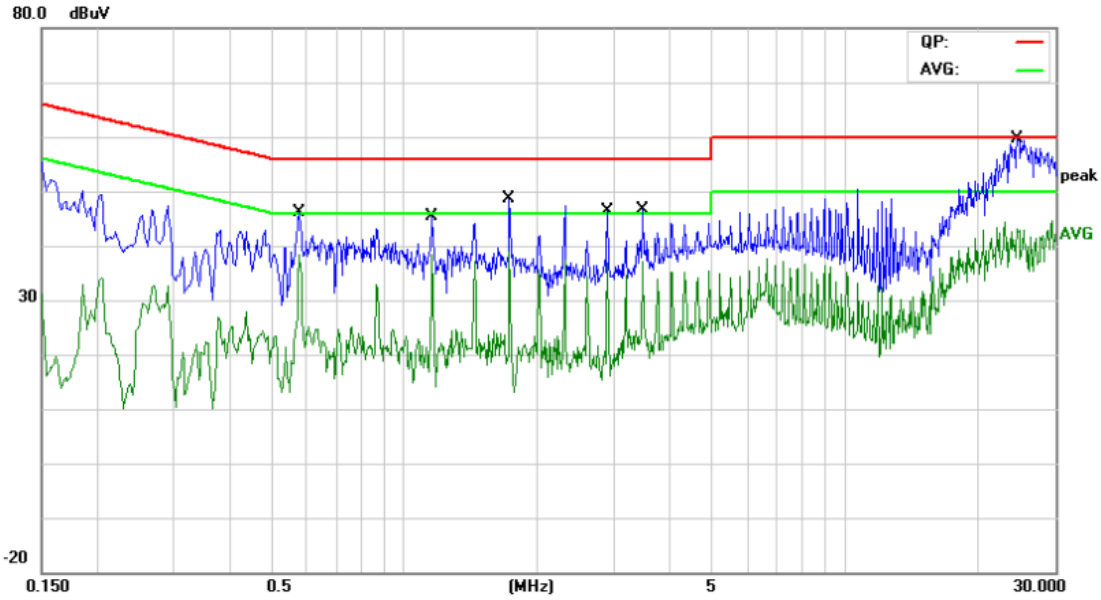
| | | | |
|---|---|---|---|
| **Temperature:** | 24.6℃ | **Relative Humidity:** | 52% |
| **Test Voltage:** | AC 120V/60Hz | | |
| **Terminal:** | Line | | |
| **Test Mode:** | Mode 1 | | |
| **Remark:** | Only worse case is reported. | | |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.5779 | 37.10 | 10.91 | 48.01 | 56.00 | -7.99 | QP |
| 2 | | 0.5779 | 29.54 | 10.91 | 40.45 | 46.00 | -5.55 | AVG |
| 3 | * | 1.1579 | 41.01 | 10.65 | 51.66 | 56.00 | -4.34 | QP |
| 4 | | 1.1579 | 30.68 | 10.65 | 41.33 | 46.00 | -4.67 | AVG |
| 5 | | 1.7339 | 39.09 | 10.55 | 49.64 | 56.00 | -6.36 | QP |
| 6 | | 1.7339 | 28.08 | 10.55 | 38.63 | 46.00 | -7.37 | AVG |
| 7 | | 2.3140 | 37.07 | 10.40 | 47.47 | 56.00 | -8.53 | QP |
| 8 | | 2.3140 | 27.19 | 10.40 | 37.59 | 46.00 | -8.41 | AVG |
| 9 | | 2.8940 | 37.58 | 10.22 | 47.80 | 56.00 | -8.20 | QP |
| 10 | | 2.8940 | 30.18 | 10.22 | 40.40 | 46.00 | -5.60 | AVG |
| 11 | | 6.9419 | 40.74 | 10.03 | 50.77 | 60.00 | -9.23 | QP |
| 12 | | 6.9419 | 29.79 | 10.03 | 39.82 | 50.00 | -10.18 | AVG |

**Remark:**
**1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)**
**2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)**

| | | | |
|---|---|---|---|
| **Temperature:** | 24.6℃ | **Relative Humidity:** | 52% |
| **Test Voltage:** | AC 120V/60Hz | | |
| **Terminal:** | Neutral | | |
| **Test Mode:** | Mode 1 | | |
| **Remark:** | Only worse case is reported. | | |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.5778 | 35.12 | 10.90 | 46.02 | 56.00 | -9.98 | QP |
| 2 | | 0.5778 | 27.39 | 10.90 | 38.29 | 46.00 | -7.71 | AVG |
| 3 | | 1.1578 | 34.71 | 10.67 | 45.38 | 56.00 | -10.62 | QP |
| 4 | | 1.1578 | 27.60 | 10.67 | 38.27 | 46.00 | -7.73 | AVG |
| 5 | | 1.7338 | 38.06 | 10.59 | 48.65 | 56.00 | -7.35 | QP |
| 6 | | 1.7338 | 28.24 | 10.59 | 38.83 | 46.00 | -7.17 | AVG |
| 7 | | 2.8900 | 36.21 | 10.24 | 46.45 | 56.00 | -9.55 | QP |
| 8 | | 2.8900 | 26.68 | 10.24 | 36.92 | 46.00 | -9.08 | AVG |
| 9 | | 3.4740 | 36.47 | 10.15 | 46.62 | 56.00 | -9.38 | QP |
| 10 | | 3.4740 | 27.08 | 10.15 | 37.23 | 46.00 | -8.77 | AVG |
| 11 | * | 24.5620 | 45.84 | 10.91 | 56.75 | 60.00 | -3.25 | QP |
| 12 | | 24.5620 | 31.66 | 10.91 | 42.57 | 50.00 | -7.43 | AVG |

**Remark:**
**1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)**
**2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)**

# Attachment B--Unwanted Emissions Data

**---Radiated Unwanted Emissions**

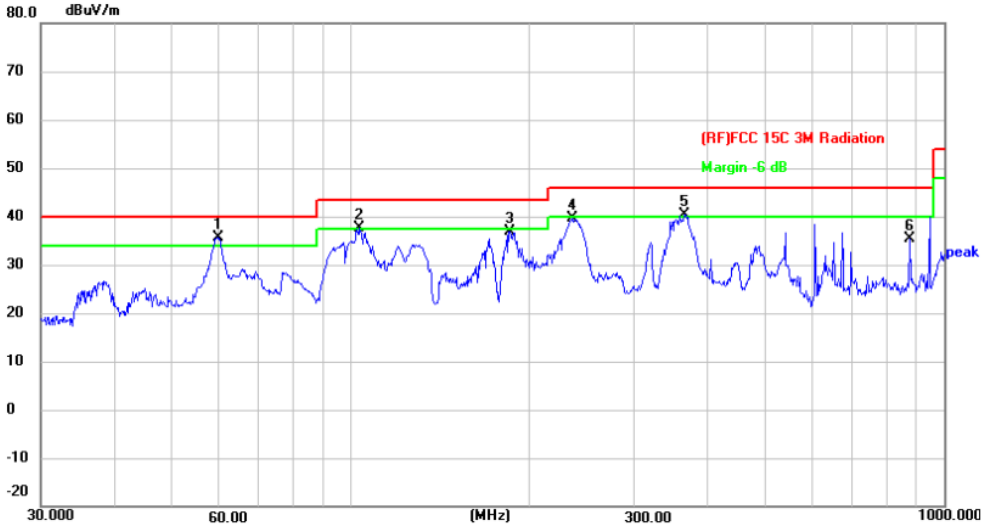
**9 KHz~30 MHz**

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB Below the permissible value has no need to be reported.

**30MHz~1GHz**

| | | | |
|---|---|---|---|
| **Temperature:** | 24.3℃ | **Relative Humidity:** | 45% |
| **Test Voltage:** | AC 120V/60Hz | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | Mode 2 TX Mode b Mode Channel 01 | | |
| **Remark:** | Only worse case is reported. | | |

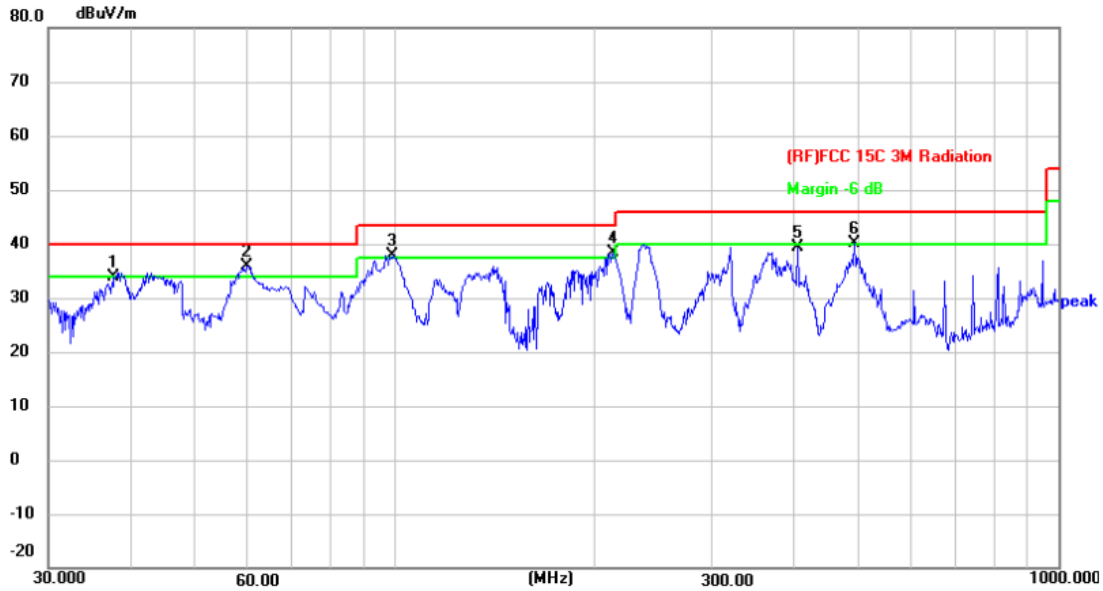



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 59.6492 | 59.35 | -23.61 | 35.74 | 40.00 | -4.26 | peak |
| 2 ! | 103.0800 | 62.99 | -25.39 | 37.60 | 43.50 | -5.90 | peak |
| 3 | 185.1375 | 61.11 | -24.14 | 36.97 | 43.50 | -6.53 | peak |
| 4 | 235.8163 | 62.88 | -23.13 | 39.75 | 46.00 | -6.25 | peak |
| 5 ! | 364.2595 | 59.47 | -18.99 | 40.48 | 46.00 | -5.52 | peak |
| 6 | 875.2468 | 43.29 | -7.83 | 35.46 | 46.00 | -10.54 | peak |

*:Maximum data x:Over limit !:over margin

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)**

| | | | |
|---|---|---|---|
| **Temperature:** | 24.3℃ | **Relative Humidity:** | 45% |
| **Test Voltage:** | AC 120V/60Hz | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | Mode 2 TX Mode b Mode Channel 01 | | |
| **Remark:** | Only worse case is reported. | | |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 37.6796 | 56.79 | -22.91 | 33.88 | 40.00 | -6.12 | peak |
| 2 * | 59.8588 | 59.42 | -23.63 | 35.79 | 40.00 | -4.21 | peak |
| 3 ! | 99.5279 | 63.56 | -25.73 | 37.83 | 43.50 | -5.67 | peak |
| 4 ! | 213.0149 | 62.54 | -24.27 | 38.27 | 43.50 | -5.23 | peak |
| 5 | 404.6664 | 57.16 | -17.76 | 39.40 | 46.00 | -6.60 | peak |
| 6 ! | 492.4685 | 55.77 | -15.58 | 40.19 | 46.00 | -5.81 | peak |

*:Maximum data x:Over limit !:over margin

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)**

## Above 1GHz

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX B Mode 2412MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 10996.000 | 45.25 | 4.18 | 49.43 | 74.00 | -24.57 | peak |
| 2 | 13903.000 | 41.87 | 7.01 | 48.88 | 74.00 | -25.12 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX B Mode 2412MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10384.000 | 45.42 | 2.21 | 47.63 | 74.00 | -26.37 | peak |
| 2 * | 14948.500 | 41.70 | 7.37 | 49.07 | 74.00 | -24.93 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX B Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10919.500 | 44.05 | 4.21 | 48.26 | 74.00 | -25.74 | peak |
| 2 * | 13954.000 | 42.08 | 6.70 | 48.78 | 74.00 | -25.22 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX B Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 10894.000 | 45.98 | 4.20 | 50.18 | 74.00 | -23.82 | peak |
| 2 | 14132.500 | 43.58 | 6.19 | 49.77 | 74.00 | -24.23 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX B Mode 2462MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10843.000 | 44.53 | 3.96 | 48.49 | 74.00 | -25.51 | peak |
| 2 * | 14872.000 | 42.56 | 7.14 | 49.70 | 74.00 | -24.30 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX B Mode 2462MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 12704.500 | 42.65 | 5.63 | 48.28 | 74.00 | -25.72 | peak |
| 2 * | 14413.000 | 41.89 | 6.94 | 48.83 | 74.00 | -25.17 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX G Mode 2412MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10843.000 | 44.63 | 3.96 | 48.59 | 74.00 | -25.41 | peak |
| 2 * | 14336.500 | 42.52 | 6.55 | 49.07 | 74.00 | -24.93 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX G Mode 2412MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10511.500 | 46.39 | 2.44 | 48.83 | 74.00 | -25.17 | peak |
| 2 * | 13571.500 | 44.14 | 5.98 | 50.12 | 74.00 | -23.88 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX G Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10435.000 | 45.16 | 2.33 | 47.49 | 74.00 | -26.51 | peak |
| 2 * | 12551.500 | 43.56 | 5.43 | 48.99 | 74.00 | -25.01 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX G Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10817.500 | 45.35 | 3.83 | 49.18 | 74.00 | -24.82 | peak |
| 2 * | 13240.000 | 43.69 | 5.80 | 49.49 | 74.00 | -24.51 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX G Mode 2462MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10945.000 | 44.07 | 4.20 | 48.27 | 74.00 | -25.73 | peak |
| 2 * | 14387.500 | 42.40 | 6.91 | 49.31 | 74.00 | -24.69 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX G Mode 2462MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10792.000 | 45.47 | 3.69 | 49.16 | 74.00 | -24.84 | peak |
| 2 * | 14923.000 | 42.30 | 7.36 | 49.66 | 74.00 | -24.34 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX n(HT20) Mode 2412MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10792.000 | 45.23 | 3.69 | 48.92 | 74.00 | -25.08 | peak |
| 2 * | 14311.000 | 42.93 | 6.37 | 49.30 | 74.00 | -24.70 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX n(HT20) Mode 2412MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10894.000 | 44.06 | 4.20 | 48.26 | 74.00 | -25.74 | peak |
| 2 * | 14107.000 | 42.84 | 6.16 | 49.00 | 74.00 | -25.00 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX n(HT20) Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 10817.500 | 45.40 | 3.83 | 49.23 | 74.00 | -24.77 | peak |
| 2 | 14413.000 | 41.36 | 6.94 | 48.30 | 74.00 | -25.70 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX n(HT20) Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 10894.000 | 45.60 | 4.20 | 49.80 | 74.00 | -24.20 | peak |
| 2 | 14897.500 | 41.95 | 7.35 | 49.30 | 74.00 | -24.70 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX n(HT20) Mode 2462MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10868.500 | 44.90 | 4.07 | 48.97 | 74.00 | -25.03 | peak |
| 2 * | 14923.000 | 42.30 | 7.36 | 49.66 | 74.00 | -24.34 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX n(HT20) Mode 2462MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10843.000 | 44.42 | 3.96 | 48.38 | 74.00 | -25.62 | peak |
| 2 * | 14719.000 | 43.03 | 6.82 | 49.85 | 74.00 | -24.15 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX n(HT40) Mode 2422MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10894.000 | 44.79 | 4.20 | 48.99 | 74.00 | -25.01 | peak |
| 2 * | 14897.500 | 41.78 | 7.35 | 49.13 | 74.00 | -24.87 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX n(HT40) Mode 2422MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10945.000 | 44.46 | 4.20 | 48.66 | 74.00 | -25.34 | peak |
| 2 * | 14260.000 | 42.64 | 6.29 | 48.93 | 74.00 | -25.07 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX n(HT40) Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 10817.500 | 45.13 | 3.83 | 48.96 | 74.00 | -25.04 | peak |
| 2 | 14311.000 | 42.51 | 6.37 | 48.88 | 74.00 | -25.12 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX n(HT40) Mode 2437MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 11378.500 | 43.22 | 4.95 | 48.17 | 74.00 | -25.83 | peak |
| 2 * | 14387.500 | 42.51 | 6.91 | 49.42 | 74.00 | -24.58 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Horizontal | | |
| **Test Mode:** | TX n(HT40) Mode 2452MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10868.500 | 45.06 | 4.07 | 49.13 | 74.00 | -24.87 | peak |
| 2 * | 14999.500 | 43.05 | 7.37 | 50.42 | 74.00 | -23.58 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
**4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.**
**5. No report for the emission which more than 20dB below the prescribed limit.**
**6. The peak value＜average limit, So only show the peak value.**

| | | | |
|---|---|---|---|
| **Temperature:** | 24℃ | **Relative Humidity:** | 53% |
| **Test Voltage:** | DC 11.1V | | |
| **Ant. Pol.** | Vertical | | |
| **Test Mode:** | TX n(HT40) Mode 2452MHz | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10562.500 | 44.66 | 2.42 | 47.08 | 74.00 | -26.92 | peak |
| 2 * | 14974.000 | 42.05 | 7.37 | 49.42 | 74.00 | -24.58 | peak |

**Remark:**
**1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)**
**2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)**
**3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)**
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**-----END OF REPORT------**