



# RF Test Report

## FCC ID: 2A233-AYANEOSLIDE

Report No. : TBR-C-202309-0095-6  
Applicant : Shenzhen Konkr Technology Co., Ltd  
Equipment Under Test (EUT)  
EUT Name : tablet computer  
Model No. : AYANEO SLIDE  
Series Model No. : ----  
Brand Name : AYANEO  
Sample ID : 202309-0095-4-1#&202309-0095-4-2#  
Receipt Date : 2023-11-29  
Test Date : 2023-11-29 to 2024-02-02  
Issue Date : 2024-02-02  
Standards : FCC Part 15 Subpart C 15.247  
Test Method : ANSI C63.10: 2013  
KDB 558074 D01 15.247 Meas Guidance v05r02  
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

Tested By : Jolin Li

Reviewed By : Wade Lv

Approved By : Ivan Su



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.



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Revision History

| Report No.          | Version | Description             | Issued Date |
|---------------------|---------|-------------------------|-------------|
| TBR-C-202309-0095-6 | Rev.01  | Initial issue of report | 2024-02-02  |
|                     |         |                         |             |
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|                     |         |                         |             |
|                     |         |                         |             |
|                     |         |                         |             |
|                     |         |                         |             |





# 1. General Information about EUT

## 1.1 Client Information

|                     |   |                                                                                                                                    |
|---------------------|---|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>    | : | Shenzhen Konkrr Technology Co., Ltd                                                                                                |
| <b>Address</b>      | : | Room 215, Building 22, Maker Town, No. 4109, Liuxian Avenue, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, China |
| <b>Manufacturer</b> | : | Shenzhen Konkrr Technology Co., Ltd                                                                                                |
| <b>Address</b>      | : | Room 215, Building 22, Maker Town, No. 4109, Liuxian Avenue, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, China |

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

|                                                                                                                                                                                                                                                                                                                                                               |                      |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------|
| <b>EUT Name</b>                                                                                                                                                                                                                                                                                                                                               | :                    | tablet computer                                       |
| <b>Models No.</b>                                                                                                                                                                                                                                                                                                                                             | :                    | AYANEO SLIDE                                          |
| <b>Model Different</b>                                                                                                                                                                                                                                                                                                                                        | :                    | ----                                                  |
| <b>Product Description</b>                                                                                                                                                                                                                                                                                                                                    | Operation Frequency: | Bluetooth 5.2(BR+EDR):<br>2402MHz~2480MHz             |
|                                                                                                                                                                                                                                                                                                                                                               | Number of Channel:   | 79 channels                                           |
|                                                                                                                                                                                                                                                                                                                                                               | Antenna Gain:        | 3.36dBi FPC Antenna                                   |
|                                                                                                                                                                                                                                                                                                                                                               | Modulation Type:     | GFSK(1Mbps)<br>$\pi$ /4-DQPSK(2Mbps)<br>8-DPSK(3Mbps) |
| <b>Power Rating</b>                                                                                                                                                                                                                                                                                                                                           | :                    | Input: DC 20V, 3A                                     |
| <b>Li-ion Polymer Battery</b>                                                                                                                                                                                                                                                                                                                                 | :                    | DC 11.55V 3950mAh Rechargeable Li-ion battery         |
| <b>Software Version</b>                                                                                                                                                                                                                                                                                                                                       | :                    | ----                                                  |
| <b>Hardware Version</b>                                                                                                                                                                                                                                                                                                                                       | :                    | AS01_P01                                              |
| <b>Remark:</b><br>(1)The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.<br>(2)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.<br>(3)The above antenna information is declared by manufacturer and for more detailed |                      |                                                       |





features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.





(4)Channel List:

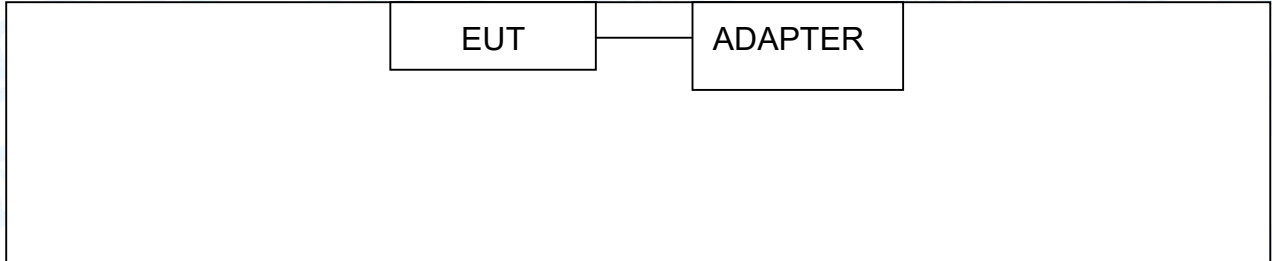
| Bluetooth Channel List |                 |         |                 |         |                 |
|------------------------|-----------------|---------|-----------------|---------|-----------------|
| Channel                | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00                     | 2402            | 27      | 2429            | 54      | 2456            |
| 01                     | 2403            | 28      | 2430            | 55      | 2457            |
| 02                     | 2404            | 29      | 2431            | 56      | 2458            |
| 03                     | 2405            | 30      | 2432            | 57      | 2459            |
| 04                     | 2406            | 31      | 2433            | 58      | 2460            |
| 05                     | 2407            | 32      | 2434            | 59      | 2461            |
| 06                     | 2408            | 33      | 2435            | 60      | 2462            |
| 07                     | 2409            | 34      | 2436            | 61      | 2463            |
| 08                     | 2410            | 35      | 2437            | 62      | 2464            |
| 09                     | 2411            | 36      | 2438            | 63      | 2465            |
| 10                     | 2412            | 37      | 2439            | 64      | 2466            |
| 11                     | 2413            | 38      | 2440            | 65      | 2467            |
| 12                     | 2414            | 39      | 2441            | 66      | 2468            |
| 13                     | 2415            | 40      | 2442            | 67      | 2469            |
| 14                     | 2416            | 41      | 2443            | 68      | 2470            |
| 15                     | 2417            | 42      | 2444            | 69      | 2471            |
| 16                     | 2418            | 43      | 2445            | 70      | 2472            |
| 17                     | 2419            | 44      | 2446            | 71      | 2473            |
| 18                     | 2420            | 45      | 2447            | 72      | 2474            |
| 19                     | 2421            | 46      | 2448            | 73      | 2475            |
| 20                     | 2422            | 47      | 2449            | 74      | 2476            |
| 21                     | 2423            | 48      | 2450            | 75      | 2477            |
| 22                     | 2424            | 49      | 2451            | 76      | 2478            |
| 23                     | 2425            | 50      | 2452            | 77      | 2479            |
| 24                     | 2426            | 51      | 2453            | 78      | 2480            |
| 25                     | 2427            | 52      | 2454            |         |                 |
| 26                     | 2428            | 53      | 2455            |         |                 |



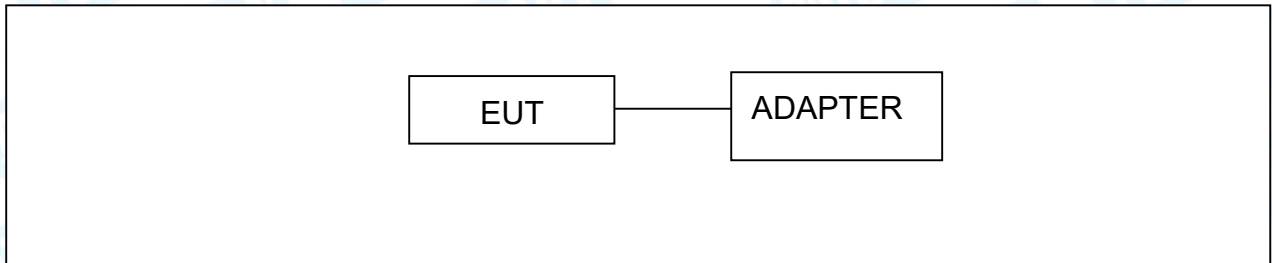


### 1.3 Block Diagram Showing the Configuration of System Tested

#### Conducted Test



#### Radiated Test



### 1.4 Description of Support Units

| Equipment Information                                   |               |              |              |           |
|---------------------------------------------------------|---------------|--------------|--------------|-----------|
| Name                                                    | Model         | FCC ID/SDOC  | Manufacturer | Used “√”  |
| Adapter                                                 | ----          | ----         | ----         | √         |
| Cable Information                                       |               |              |              |           |
| Number                                                  | Shielded Type | Ferrite Core | Length       | Note      |
| Cable 1                                                 | Yes           | NO           | 1.0M         | Accessory |
| Note: The cables and adapter provided by the Applicant. |               |              |              |           |





## 1.5 Description of Test Mode

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

| For Conducted Test |                                           |
|--------------------|-------------------------------------------|
| Final Test Mode    | Description                               |
| Mode 1             | TX GFSK Mode Channel 00                   |
| For Radiated Test  |                                           |
| Final Test Mode    | Description                               |
| Mode 1             | TX GFSK Mode Channel 00                   |
| Mode 2             | TX Mode(GFSK) Channel 00/39/78            |
| Mode 3             | TX Mode( $\pi/4$ -DQPSK) Channel 00/39/78 |
| Mode 4             | TX Mode(8-DPSK) Channel 00/39/78          |
| Mode 5             | Hopping Mode(GFSK)                        |
| Mode 6             | Hopping Mode( $\pi/4$ -DQPSK)             |
| Mode 7             | Hopping Mode(8-DPSK)                      |

**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:

TX Mode: GFSK (1 Mbps)  
TX Mode:  $\pi/4$ -DQPSK (2 Mbps)  
TX Mode: 8-DPSK (3 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable 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 Version | DRTU     |         |          |
|-----------------------|----------|---------|----------|
| Frequency             | 2402 MHz | 2441MHz | 2480 MHz |
| GFSK                  | 8        | 8       | 8        |
| $\pi/4$ -DQPSK        | 8        | 8       | 8        |
| 8-DPSK                | 8        | 8       | 8        |

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , 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 | $\pm 3.50$ dB<br>$\pm 3.10$ dB     |
| Radiated Emission  | Level Accuracy:<br>9kHz to 30 MHz                 | $\pm 4.60$ dB                      |
| Radiated Emission  | Level Accuracy:<br>30MHz to 1000 MHz              | $\pm 4.50$ dB                      |
| Radiated Emission  | Level Accuracy:<br>Above 1000MHz                  | $\pm 4.20$ 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       | Test Item                               | Test Sample(s)   | Judgment | Remark |
|------------------------|-----------------------------------------|------------------|----------|--------|
| FCC                    |                                         |                  |          |        |
| FCC 15.207(a)          | Conducted Emission                      | 202309-0095-4-1# | PASS     | N/A    |
| FCC 15.209 & 15.247(d) | Radiated Unwanted Emissions             | 202309-0095-4-1# | PASS     | N/A    |
| FCC 15.203             | Antenna Requirement                     | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.247(a)          | 99% Occupied Bandwidth & 20dB Bandwidth | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.247(b)(1)       | Peak Output Power                       | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.247(a)(1)       | Carrier frequency separation            | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.247(a)(1)       | Time of occupancy                       | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.247(b)(1)       | Number of Hopping Frequency             | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.247(d)          | Band Edge                               | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.207             | Conducted Unwanted Emissions            | 202309-0095-4-2# | PASS     | N/A    |
| FCC 15.205             | Emissions in Restricted Bands           | 202309-0095-4-2# | PASS     | N/A    |
| /                      | On Time and Duty Cycle                  | 202309-0095-4-2# | /        | 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        | Tonscend     | V3.2.22     |





## 4. Test Equipment and Test Site

| Test Site   |                        |              |                   |      |
|-------------|------------------------|--------------|-------------------|------|
| No.         | Test Site              | Manufacturer | Specification     | Used |
| TB-EMCSR001 | Shielding Chamber #1   | YIHENG       | 7.5*4.0*3.0 ( m ) | √    |
| TB-EMCSR002 | Shielding Chamber #2   | YIHENG       | 8.0*4.0*3.0 ( m ) | X    |
| TB-EMCCA001 | 3m Anechoic Chamber #A | ETS          | 9.0*6.0*6.0 ( m ) | X    |
| TB-EMCCB002 | 3m Anechoic Chamber #B | YIHENG       | 9.0*6.0*6.0 ( m ) | √    |

| Conducted Emission Test          |                                  |                    |                |               |               |
|----------------------------------|----------------------------------|--------------------|----------------|---------------|---------------|
| Equipment                        | Manufacturer                     | Model No.          | Serial No.     | Last Cal.     | Cal. Due Date |
| EMI Test Receiver                | Rohde & Schwarz                  | ESCI               | 100321         | Jun. 20, 2023 | Jun. 19, 2024 |
| RF Switching Unit                | Compliance Direction Systems Inc | RSU-A4             | 34403          | Jun. 20, 2023 | Jun. 19, 2024 |
| AMN                              | SCHWARZBECK                      | NNBL 8226-2        | 8226-2/164     | Jun. 20, 2023 | Jun. 19, 2024 |
| LISN                             | Rohde & Schwarz                  | ENV216             | 101131         | Jun. 20, 2023 | Jun. 19, 2024 |
| ISN                              | SCHWARZBECK                      | NTFM 8131          | 8131-193       | Jun. 20, 2023 | Jun. 19, 2024 |
| ISN                              | SCHWARZBECK                      | CAT3 8158          | cat3 5158-0094 | Jun. 20, 2023 | Jun. 19, 2024 |
| ISN                              | SCHWARZBECK                      | NTFM5158           | NTFM5158 0145  | Jun. 20, 2023 | Jun. 19, 2024 |
| ISN                              | SCHWARZBECK                      | CAT 8158           | cat5 8158-179  | Jun. 20, 2023 | Jun. 19, 2024 |
| Radiation Emission Test (B Site) |                                  |                    |                |               |               |
| Equipment                        | Manufacturer                     | Model No.          | Serial No.     | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer                | Agilent                          | N9020A             | MY49100060     | Aug. 30, 2023 | Aug. 29, 2024 |
| Spectrum Analyzer                | Rohde & Schwarz                  | FSV40-N            | 102197         | Jun. 20, 2023 | Jun. 19, 2024 |
| EMI Test Receiver                | Rohde & Schwarz                  | ESU-8              | 100472/008     | Feb. 23, 2023 | Feb. 22, 2024 |
| Bilog Antenna                    | SCHWARZBECK                      | VULB 9168          | 1225           | Nov. 13, 2023 | Nov. 12, 2025 |
| 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    | Aug. 30, 2023 | Aug. 29, 2024 |
| HF Amplifier                     | Tonscend                         | TAP051845          | AP21C806141    | Aug. 30, 2023 | Aug. 29, 2024 |
| HF Amplifier                     | Tonscend                         | TAP0184050         | AP21C806129    | Aug. 30, 2023 | Aug. 29, 2024 |
| Highpass Filter                  | CD                               | HPM-6.4/18G        | ---            | N/A           | N/A           |
| Highpass Filter                  | CD                               | HPM-2.8/18G        | ---            | N/A           | N/A           |
| Highpass Filter                  | XINBO                            | XBLBQ-HTA67(8-25G) | 22052702-1     | N/A           | N/A           |
| Antenna Conducted Emission       |                                  |                    |                |               |               |
| Equipment                        | Manufacturer                     | Model No.          | Serial No.     | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer                | Agilent                          | E4407B             | MY45106456     | Jun. 20, 2023 | Jun. 19, 2024 |
| Spectrum Analyzer                | Rohde & Schwarz                  | FSV40-N            | 102197         | Jun. 20, 2023 | Jun. 19, 2024 |
| MXA Signal Analyzer              | KEYSIGHT                         | N9020B             | MY60110172     | Aug. 30, 2023 | Aug. 29, 2024 |





|                                      |                    |                   |               |               |               |
|--------------------------------------|--------------------|-------------------|---------------|---------------|---------------|
| MXA Signal Analyzer                  | Agilent            | N9020A            | MY47380425    | Aug. 30, 2023 | Aug. 29, 2024 |
| Vector Signal Generator              | Agilent            | N5182A            | MY50141294    | Aug. 30, 2023 | Aug. 29, 2024 |
| Analog Signal Generator              | Agilent            | N5181A            | MY48180463    | Aug. 30, 2023 | Aug. 29, 2024 |
| Vector Signal Generator              | KEYSIGHT           | N5182B            | MY59101429    | Aug. 30, 2023 | Aug. 29, 2024 |
| Analog Signal Generator              | KEYSIGHT           | N5173B            | MY61252685    | Aug. 30, 2023 | Aug. 29, 2024 |
| RF Power Sensor                      | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO26 | Aug. 30, 2023 | Aug. 29, 2024 |
|                                      | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO29 | Aug. 30, 2023 | Aug. 29, 2024 |
|                                      | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO31 | Aug. 30, 2023 | Aug. 29, 2024 |
|                                      | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO33 | Aug. 30, 2023 | Aug. 29, 2024 |
| RF Control Unit                      | Tonsced            | JS0806-1          | 21C8060380    | N/A           | N/A           |
| RF Control Unit                      | Tonsced            | JS0806-2          | 21F8060439    | Aug. 30, 2023 | Aug. 29, 2024 |
| Power Control Box                    | Tonsced            | JS0806-4ADC       | 21C8060387    | N/A           | N/A           |
| Wideband Radio Communication Tester  | Rohde & Schwarz    | CMW500            | 144382        | Aug. 30, 2023 | Aug. 29, 2024 |
| Universal Radio Communication Tester | Rohde&Schwarz      | CMW500            | 168796        | Feb. 23, 2023 | Feb.22, 2024  |
| Temperature and Humidity Chamber     | ZhengHang          | ZH-QTH-1500       | ZH2107264     | Jun. 20, 2023 | Jun. 19, 2024 |





## 5. Conducted Emission

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

#### FCC Part 15.207

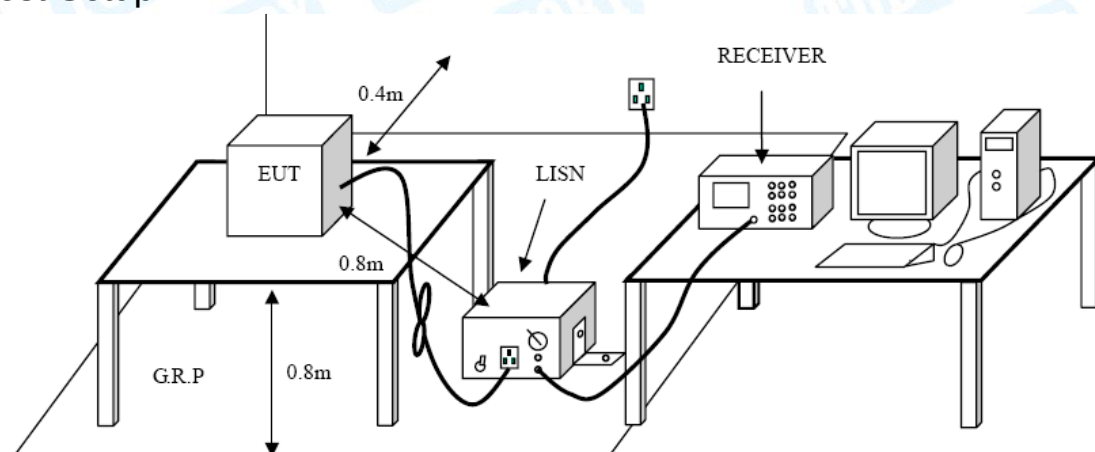
#### 5.1.2 Test Limit

| Frequency     | Maximum RF Line Voltage (dB $\mu$ V) |               |
|---------------|--------------------------------------|---------------|
|               | 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 (microvolt/meter)** | Measurement Distance (meters) |
| 0.009~0.490                                              | 2400/F(KHz)                        | 300                           |
| 0.490~1.705                                              | 24000/F(KHz)                       | 30                            |
| 1.705~30.0                                               | 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.

| 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:**

(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(μV/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





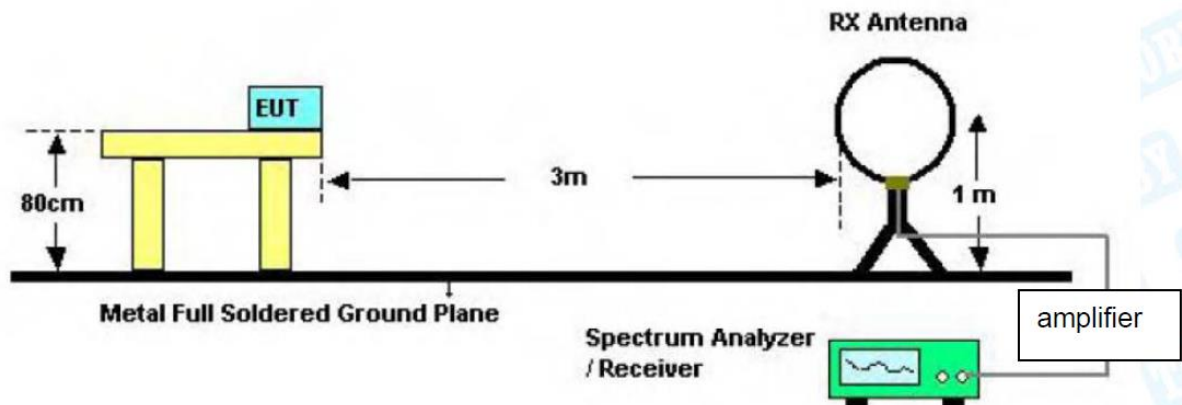
limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen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



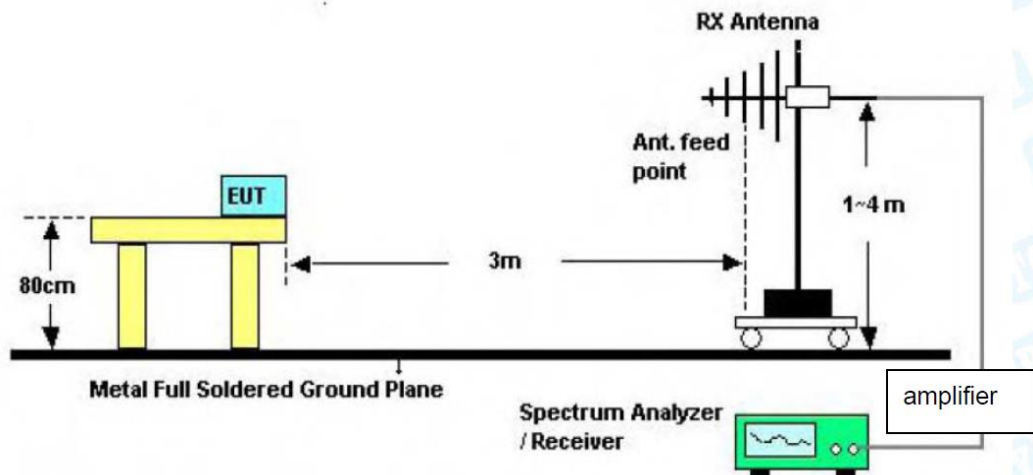


## 6.2 Test Setup

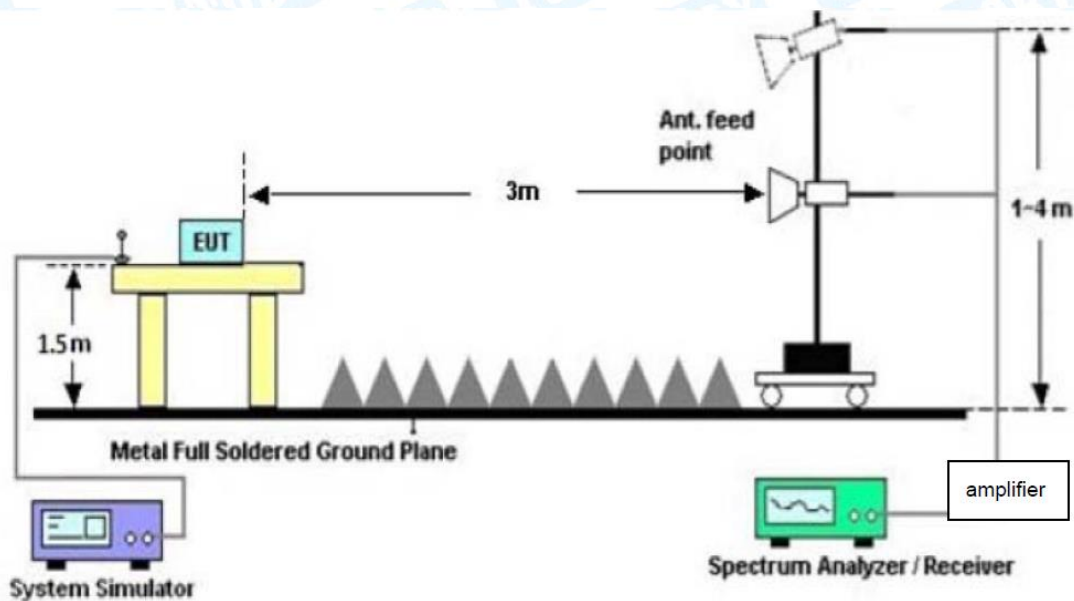
### Radiated measurement



### Below 30MHz Test Setup

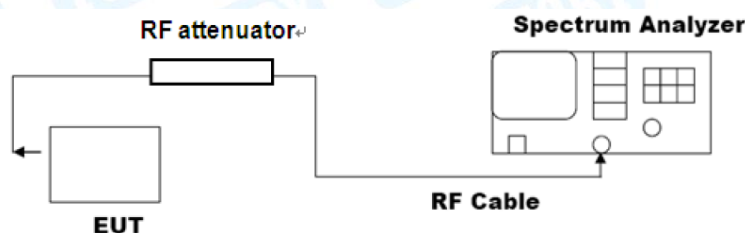


### Below 1000MHz Test Setup





### 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  $\geq 1.5$  times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- 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  $\geq [3 \times \text{RBW}]$ .
- 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 BT.





## 7. Emissions in Restricted Bands

### 7.1 Test Standard and Limit

#### 7.1.1 Test Standard

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

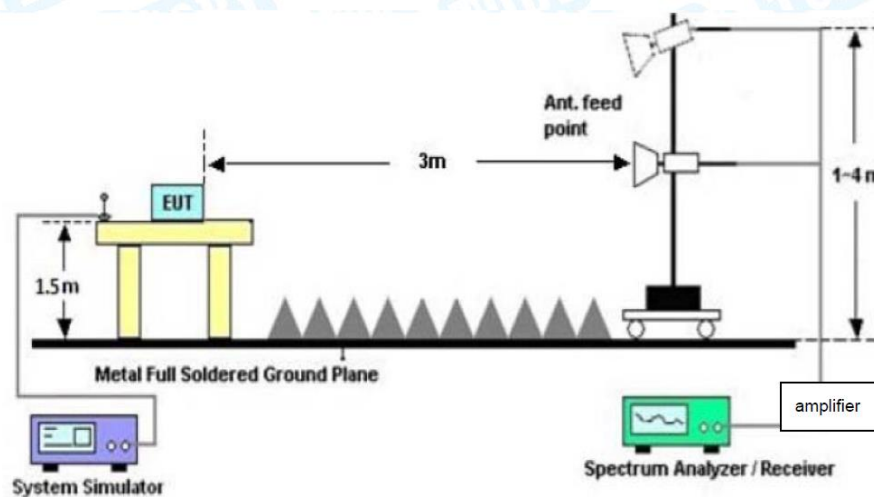
#### 7.1.2 Test Limit

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

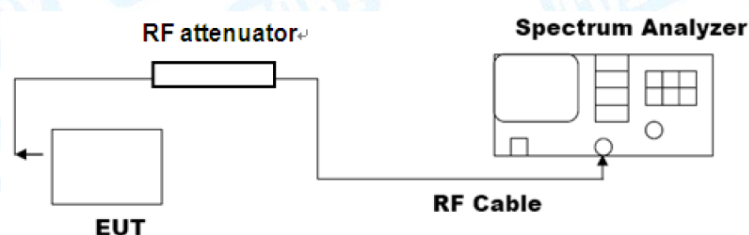
Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/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  $\leq 30$  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 BT.





## 8. 99% Occupied and 20dB Bandwidth

### 8.1 Test Standard and Limit

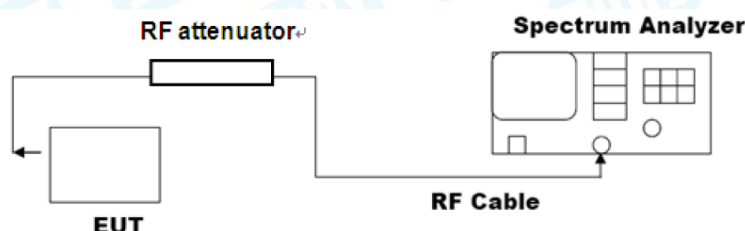
#### 8.1.1 Test Standard

##### **FCC Part 15.205 & FCC Part 15.247(a)**

#### 8.1.2 Test Limit

For an FHSS system operating in the 2400 to 2483.5 MHz band, there are no limits for 20dB bandwidth and 99% occupied bandwidth.

### 8.2 Test Setup



### 8.3 Test Procedure

● 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:

- 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.
- 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.
- 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  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.5.2.
- Step a) through step c) might require iteration to adjust within the specified range.
- 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.
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- 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 BT.





## 9. Peak Output Power Test

### 9.1 Test Standard and Limit

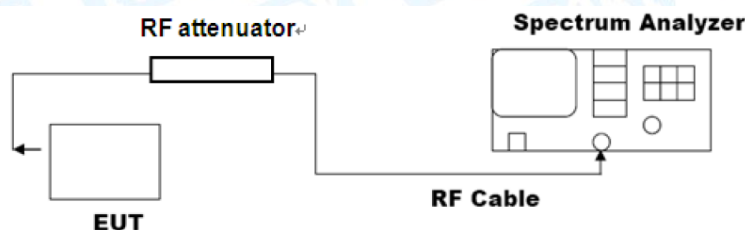
#### 9.1.1 Test Standard

#### FCC Part 15.247(b)(1)

#### 9.1.2 Test Limit

| Test Item                                                                                                                                                                     | Limit                                                                                                                                                                                                                                                                                                          | Frequency Range(MHz) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Peak Output Power                                                                                                                                                             | $P_{\text{max-pk}} \leq 1 \text{ W}$<br>$N_{\text{ch}} \geq 75$<br>$f \geq \text{MAX} \{ 25 \text{ kHz}, BW_{20\text{dB}} \}$<br>max. $BW_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s}$ for $T = 0.4 * N_{\text{ch}}$                                                                     | 2400~2483.5          |
|                                                                                                                                                                               | $P_{\text{max-pk}} \leq 0.125 \text{ W}$<br>$N_{\text{ch}} \geq 15$<br>$f \geq [ \text{MAX}\{25 \text{ kHz}, 0.67 * BW_{20\text{dB}}\}$<br>OR $\text{MAX}\{25 \text{ kHz}, BW_{20\text{dB}} \} ]$<br>max. $BW_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s}$ for $T = 0.4 * N_{\text{ch}}$ |                      |
| $t_{\text{ch}}$ = average time of occupancy; $T$ = period; $N_{\text{ch}}$ = # hopping frequencies; $BW$ = bandwidth; □<br>$f$ = hopping channel carrier frequency separation |                                                                                                                                                                                                                                                                                                                |                      |

### 9.2 Test Setup



### 9.3 Test Procedure

● This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

- 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 ≥ RBW.





- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

NOTE-A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

#### 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 BT.





## 10. Carrier frequency separation

### 10.1 Test Standard and Limit

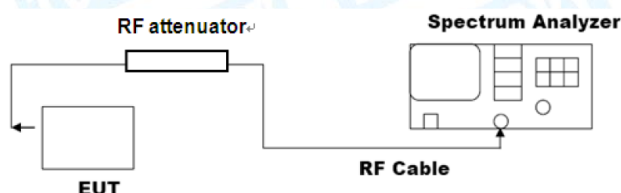
#### 10.1.1 Test Standard

#### FCC Part 15.247(a)(1)

#### 10.1.2 Test Limit

| Test Item                                                                                                                                                                | Limit                                                                                                                                                                                                                                                                                                         | Frequency Range(MHz) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Carrier frequency separation                                                                                                                                             | $P_{\text{max-pk}} \leq 1 \text{ W}$<br>$N_{\text{ch}} \geq 75$<br>$f \geq \text{MAX} \{ 25 \text{ kHz}, BW_{20\text{dB}} \}$<br>max. $BW_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s}$ for $T = 0.4 * N_{\text{ch}}$                                                                    | 2400~2483.5          |
|                                                                                                                                                                          | $P_{\text{max-pk}} \leq 0.125 \text{ W}$<br>$N_{\text{ch}} \geq 15$<br>$f \geq [ \text{MAX}\{25 \text{ kHz}, 0.67 * BW_{20\text{dB}}\}$<br>OR $\text{MAX}\{25 \text{ kHz}, BW_{20\text{dB}}\} ]$<br>max. $BW_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s}$ for $T = 0.4 * N_{\text{ch}}$ |                      |
| $t_{\text{ch}}$ = average time of occupancy; $T$ = period; $N_{\text{ch}}$ = # hopping frequencies; $BW$ = bandwidth; $f$ = hopping channel carrier frequency separation |                                                                                                                                                                                                                                                                                                               |                      |

### 10.2 Test Setup



### 10.3 Test Procedure

● The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Wide enough to capture the peaks of two adjacent channels.
- 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.
- Video (or average) bandwidth (VBW)  $\geq$  RBW.
- Sweep: Auto.
- Detector function: Peak.
- Trace: Max hold.
- Allow the trace to stabilize.





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 plot of the data shall be included in the test report.

#### 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 BT.





## 11. Time of occupancy (Dwell time)

### 11.1 Test Standard and Limit

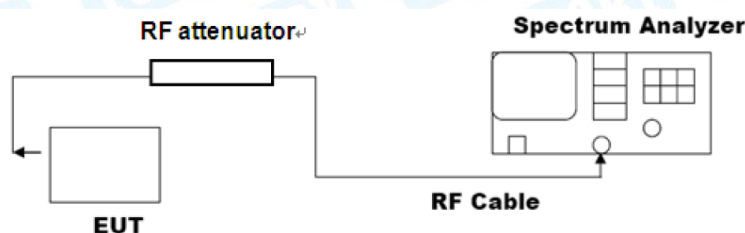
#### 11.1.1 Test Standard

#### FCC Part 15.247(a)(1)

#### 11.1.2 Test Limit

| Test Item                                                                                                                                                                       | Limit                                                                                                                                                                                                                                                                                                                             | Frequency Range(MHz) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Time of occupancy<br>(dwell time)                                                                                                                                               | $P_{\text{max-pk}} \leq 1 \text{ W}$<br>$N_{\text{ch}} \geq 75$<br>$f \geq \text{MAX} \{ 25 \text{ kHz}, \text{BW}_{20\text{dB}} \}$<br>max. $\text{BW}_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s for } T = 0.4 * N_{\text{ch}}$                                                                           | 2400~2483.5          |
|                                                                                                                                                                                 | $P_{\text{max-pk}} \leq 0.125 \text{ W}$<br>$N_{\text{ch}} \geq 15$<br>$f \geq [ \text{MAX}\{25 \text{ kHz}, 0.67 * \text{BW}_{20\text{dB}}\}$<br>OR $\text{MAX}\{25 \text{ kHz}, \text{BW}_{20\text{dB}}\} ]$<br>max. $\text{BW}_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s for } T = 0.4 * N_{\text{ch}}$ |                      |
| $t_{\text{ch}}$ = average time of occupancy; $T$ = period; $N_{\text{ch}}$ = # hopping frequencies; $\text{BW}$ = bandwidth; $f$ = hopping channel carrier frequency separation |                                                                                                                                                                                                                                                                                                                                   |                      |

### 11.2 Test Setup



### 11.3 Test Procedure

● The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Zero span, centered on a hopping channel.
- RBW shall be  $\square$  channel spacing and where possible RBW should be set  $\gg 1 / T$ , where  $T$  is the expected dwell time per channel.
- Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be





needed with a longer sweep time to show two successive hops on a channel.

d) Detector function: Peak.

e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$\begin{aligned} &(\text{Number of hops in the period specified in the requirements}) = \\ &(\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer} \\ &\text{sweep time}) \end{aligned}$$

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

#### 11.4 Deviation From Test Standard

No deviation

#### 11.5 Antenna Connected Construction

Please refer to the description of test mode.

#### 11.6 Test Data

Please refer to the external appendix report of BT.





## 12. Number of hopping frequencies

### 12.1 Test Standard and Limit

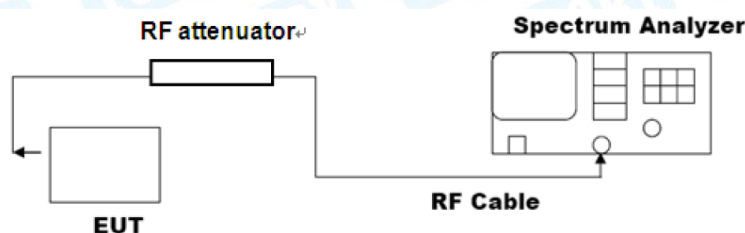
#### 12.1.1 Test Standard

#### FCC Part 15.247(b)(1)

#### 12.1.2 Test Limit

| Test Item                                                                                                                                                                     | Limit                                                                                                                                                                                                                                                                                                         | Frequency Range(MHz) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Carrier frequency separation                                                                                                                                                  | $P_{\text{max-pk}} \leq 1 \text{ W}$<br>$N_{\text{ch}} \geq 75$<br>$f \geq \text{MAX} \{ 25 \text{ kHz}, BW_{20\text{dB}} \}$<br>max. $BW_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s for } T = 0.4 * N_{\text{ch}}$                                                                     | 2400~2483.5          |
|                                                                                                                                                                               | $P_{\text{max-pk}} \leq 0.125 \text{ W}$<br>$N_{\text{ch}} \geq 15$<br>$f \geq [ \text{MAX}\{25 \text{ kHz}, 0.67 * BW_{20\text{dB}}\}$<br>OR $\text{MAX}\{25 \text{ kHz}, BW_{20\text{dB}} \} ]$<br>max. $BW_{20\text{dB}}$ not specified<br>$t_{\text{ch}} \leq 0.4 \text{ s for } T = 0.4 * N_{\text{ch}}$ |                      |
| $t_{\text{ch}}$ = average time of occupancy; $T$ = period; $N_{\text{ch}}$ = # hopping frequencies; $BW$ = bandwidth; □<br>$f$ = hopping channel carrier frequency separation |                                                                                                                                                                                                                                                                                                               |                      |

### 12.2 Test Setup



### 12.3 Test Procedure

● The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 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.
- VBW  $\geq$  RBW.
- Sweep: Auto.





e) Detector function: Peak.

f) Trace: Max hold.

g) Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.

Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

#### 12.4 Deviation From Test Standard

No deviation

#### 12.5 Antenna Connected Construction

Please refer to the description of test mode.

#### 12.6 Test Data

Please refer to the external appendix report of BT.





## 13. Antenna Requirement

### 13.1 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.

### 13.2 Deviation From Test Standard

No deviation

### 13.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 3.36dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### 13.4 Test Data

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

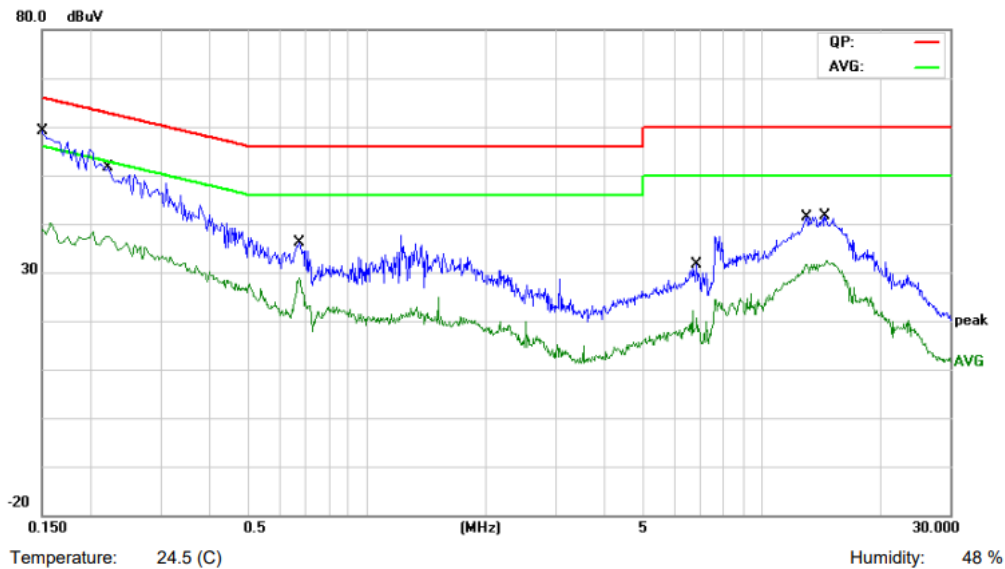
| Antenna Type                                                   |
|----------------------------------------------------------------|
| <input checked="" type="checkbox"/> Permanent attached antenna |
| <input type="checkbox"/> Unique connector antenna              |
| <input type="checkbox"/> Professional installation antenna     |





## Attachment A-- Conducted Emission Test Data

|               |                              |
|---------------|------------------------------|
| Test Voltage: | AC 120V/60Hz                 |
| Terminal:     | Line                         |
| Test Mode:    | Mode 1                       |
| Remark:       | Only worse case is reported. |



| No. | Mk. | Freq.   | Reading | Correct | Measure- | Limit | Over   |          |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
|     |     | MHz     | Level   | Factor  | ment     |       |        | Detector |
|     |     |         | dBuV    | dB      | dBuV     | dBuV  | dB     |          |
| 1   | *   | 0.1500  | 41.48   | 11.23   | 52.71    | 65.99 | -13.28 | QP       |
| 2   |     | 0.1500  | 25.76   | 11.23   | 36.99    | 55.99 | -19.00 | AVG      |
| 3   |     | 0.2232  | 34.86   | 11.09   | 45.95    | 62.70 | -16.75 | QP       |
| 4   |     | 0.2232  | 23.50   | 11.09   | 34.59    | 52.70 | -18.11 | AVG      |
| 5   |     | 0.6740  | 22.44   | 11.06   | 33.50    | 56.00 | -22.50 | QP       |
| 6   |     | 0.6740  | 17.05   | 11.06   | 28.11    | 46.00 | -17.89 | AVG      |
| 7   |     | 6.8500  | 12.95   | 10.18   | 23.13    | 60.00 | -36.87 | QP       |
| 8   |     | 6.8500  | 6.49    | 10.18   | 16.67    | 50.00 | -33.33 | AVG      |
| 9   |     | 12.8100 | 23.94   | 10.46   | 34.40    | 60.00 | -25.60 | QP       |
| 10  |     | 12.8100 | 18.37   | 10.46   | 28.83    | 50.00 | -21.17 | AVG      |
| 11  |     | 14.4940 | 25.58   | 10.59   | 36.17    | 60.00 | -23.83 | QP       |
| 12  |     | 14.4940 | 20.17   | 10.59   | 30.76    | 50.00 | -19.24 | AVG      |

Remark:

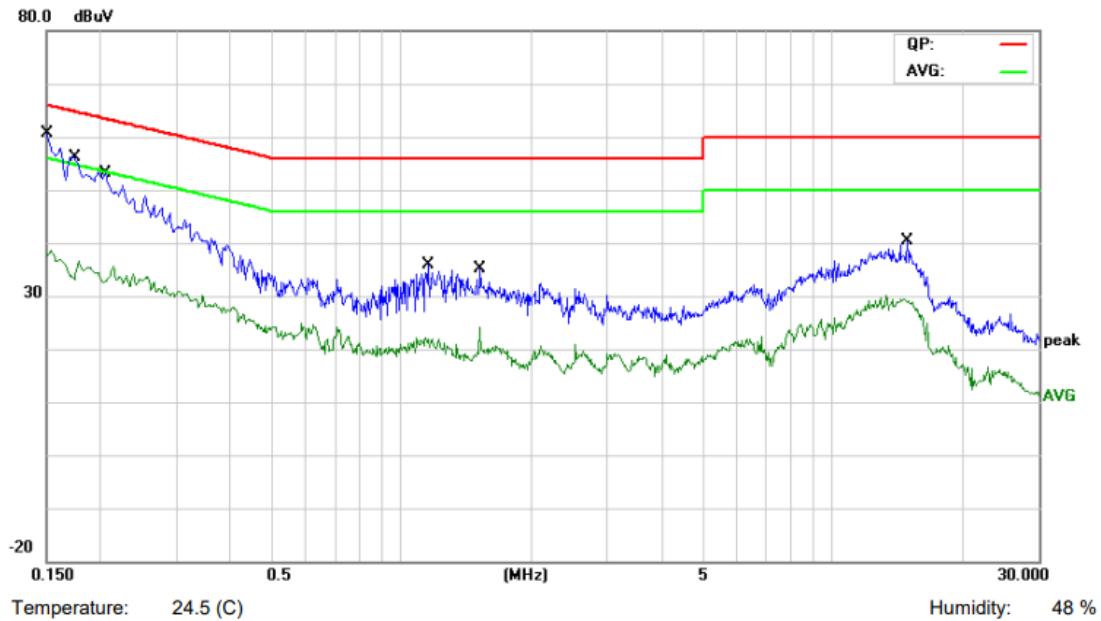
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV)-Limit (dBuV)





|               |                              |
|---------------|------------------------------|
| 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   | *   | 0.1500  | 40.88         | 11.23          | 52.11        | 65.99 | -13.88 | QP       |
| 2   |     | 0.1500  | 24.71         | 11.23          | 35.94        | 55.99 | -20.05 | AVG      |
| 3   |     | 0.1740  | 37.47         | 11.17          | 48.64        | 64.76 | -16.12 | QP       |
| 4   |     | 0.1740  | 22.13         | 11.17          | 33.30        | 54.76 | -21.46 | AVG      |
| 5   |     | 0.2060  | 34.02         | 11.09          | 45.11        | 63.36 | -18.25 | QP       |
| 6   |     | 0.2060  | 21.94         | 11.09          | 33.03        | 53.36 | -20.33 | AVG      |
| 7   |     | 1.1500  | 17.84         | 11.04          | 28.88        | 56.00 | -27.12 | QP       |
| 8   |     | 1.1500  | 9.89          | 11.04          | 20.93        | 46.00 | -25.07 | AVG      |
| 9   |     | 1.5220  | 17.41         | 10.89          | 28.30        | 56.00 | -27.70 | QP       |
| 10  |     | 1.5220  | 12.08         | 10.89          | 22.97        | 46.00 | -23.03 | AVG      |
| 11  |     | 14.8340 | 22.91         | 10.62          | 33.53        | 60.00 | -26.47 | QP       |
| 12  |     | 14.8340 | 17.86         | 10.62          | 28.48        | 50.00 | -21.52 | 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

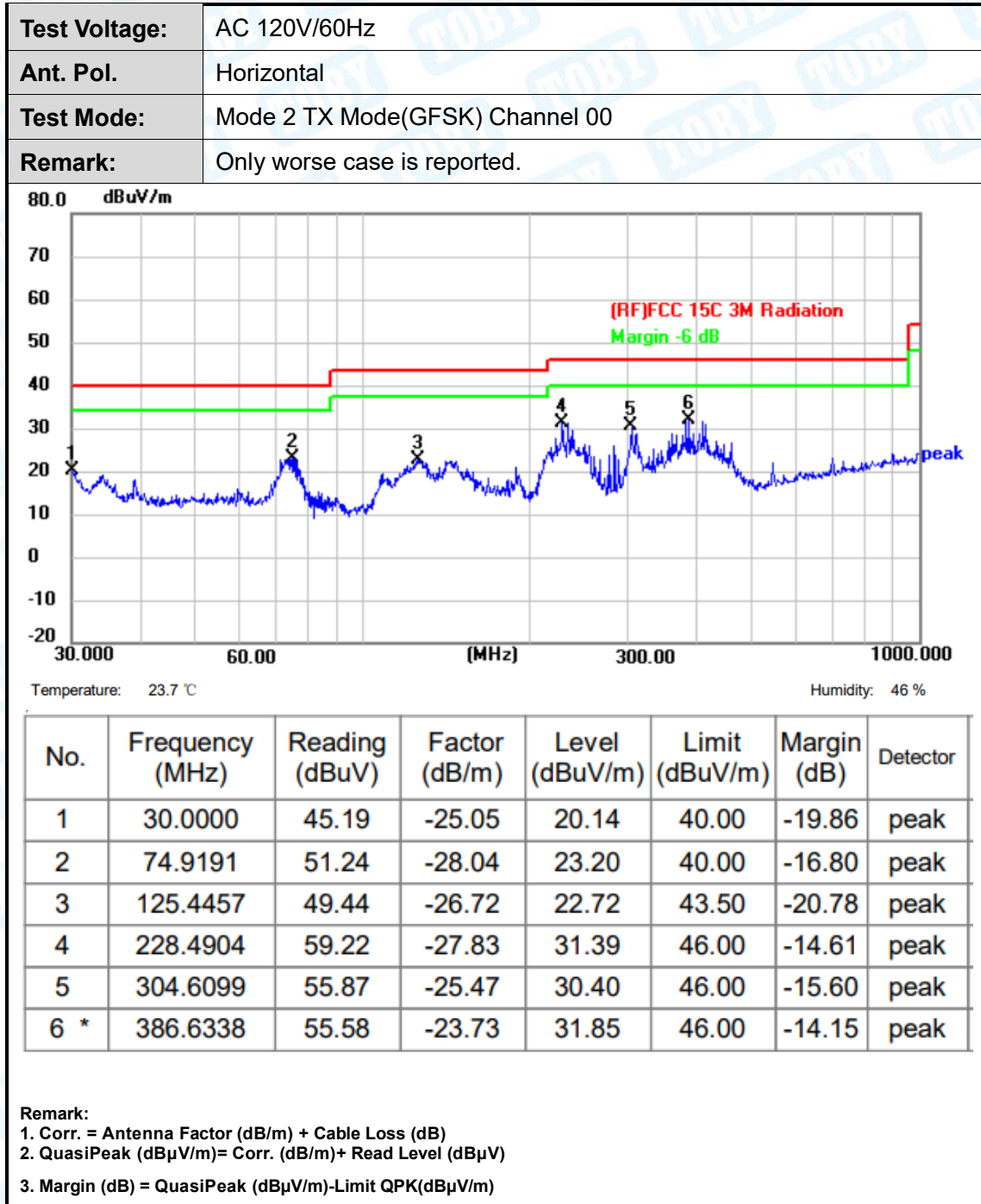
### ---Radiated Unwanted Emissions

#### 9 KHz~30 MHz

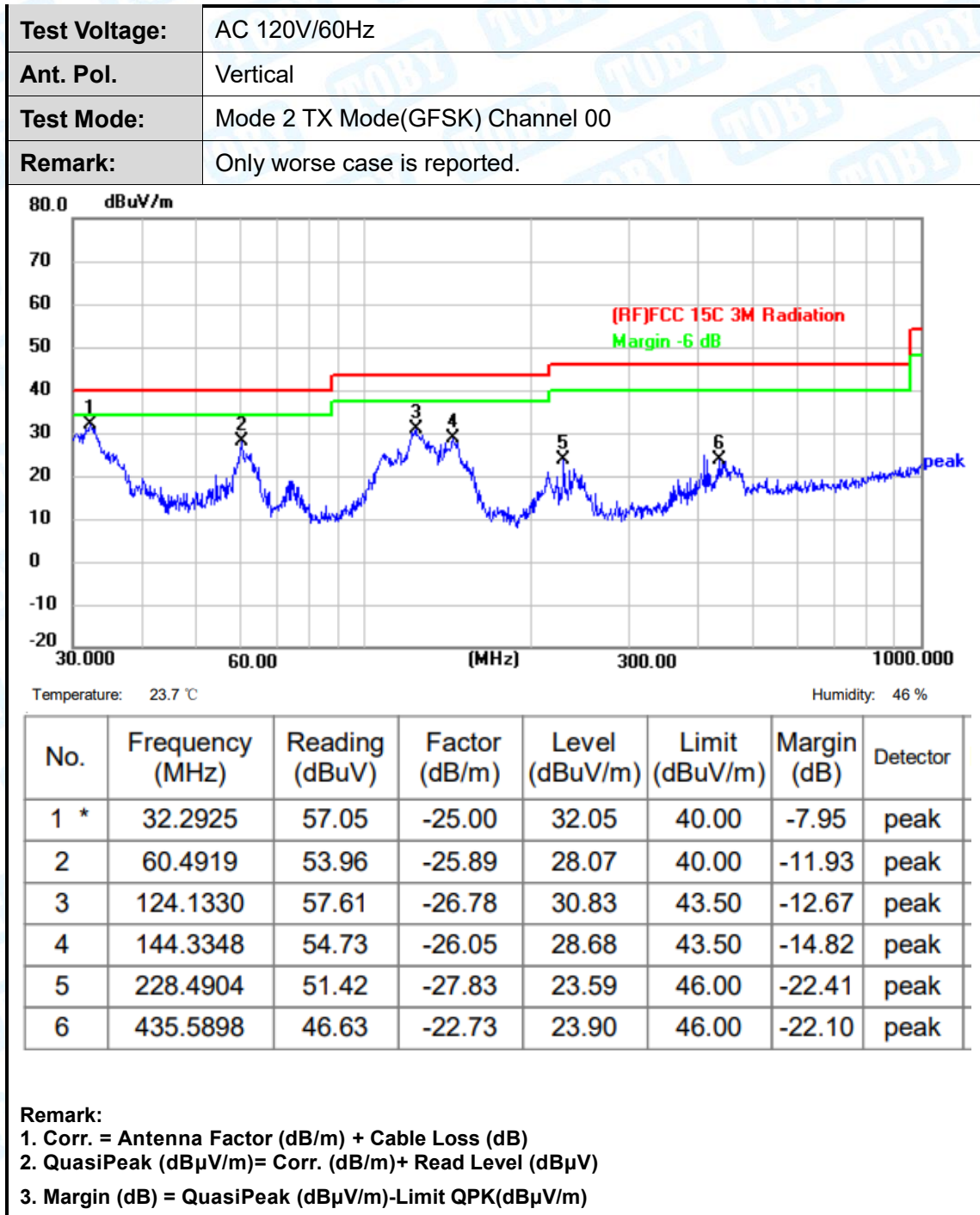
From 9 KHz to 30 MHz: Conclusion: PASS

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









**Above 1GHz**

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.5℃                | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V            |                    |     |
| Ant. Pol.     | Horizontal           |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 10945.000       | 43.89          | -0.08         | 43.81          | 74.00          | -30.19      | peak     |
| 2   | 14770.000       | 40.31          | 3.42          | 43.73          | 74.00          | -30.27      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.5℃                | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V            |                    |     |
| Ant. Pol.     | Vertical             |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 9746.500        | 46.56          | -3.17         | 43.39          | 74.00          | -30.61      | peak     |
| 2 * | 11327.500       | 43.54          | 0.52          | 44.06          | 74.00          | -29.94      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.





|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.5℃                | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V            |                    |     |
| Ant. Pol.     | Horizontal           |                    |     |
| Test Mode:    | TX GFSK Mode 2441MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 12143.500       | 42.42          | 1.50          | 43.92          | 74.00          | -30.08      | peak     |
| 2 * | 14566.000       | 41.66          | 3.21          | 44.87          | 74.00          | -29.13      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit, So only show the peak value.

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.5℃                | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V            |                    |     |
| Ant. Pol.     | Vertical             |                    |     |
| Test Mode:    | TX GFSK Mode 2441MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10843.000       | 43.28          | -0.31         | 42.97          | 74.00          | -31.03      | peak     |
| 2 * | 13367.500       | 42.16          | 2.07          | 44.23          | 74.00          | -29.77      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit, So only show the peak value.





| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23.5℃                | Relative Humidity: | 49%           |                |                 |                |               |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|---------------|----------------|-----------------|----------------|---------------|----------------|----------------|-------------|----------|---|-----------|-------|-------|-------|-------|--------|------|-----|-----------|-------|------|-------|-------|--------|------|
| Test Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DC 11.55V            |                    |               |                |                 |                |               |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
| Ant. Pol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Horizontal           |                    |               |                |                 |                |               |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TX GFSK Mode 2480MHz |                    |               |                |                 |                |               |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
| <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>10817.500</td><td>44.84</td><td>-0.36</td><td>44.48</td><td>74.00</td><td>-29.52</td><td>peak</td></tr><tr><td>2 *</td><td>14566.000</td><td>41.56</td><td>3.21</td><td>44.77</td><td>74.00</td><td>-29.23</td><td>peak</td></tr></table>                                                                                                                                     |                      |                    |               | No.            | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | 1 | 10817.500 | 44.84 | -0.36 | 44.48 | 74.00 | -29.52 | peak | 2 * | 14566.000 | 41.56 | 3.21 | 44.77 | 74.00 | -29.23 | peak |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)      | Reading (dBuV)     | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m)  | Margin (dB)    | Detector      |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10817.500            | 44.84              | -0.36         | 44.48          | 74.00           | -29.52         | peak          |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
| 2 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 14566.000            | 41.56              | 3.21          | 44.77          | 74.00           | -29.23         | peak          |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |
| Remark:<br>1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)<br>2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)<br>3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)<br>4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.<br>5. No report for the emission which below the prescribed limit.<br>6. The peak value<average limit, So only show the peak value. |                      |                    |               |                |                 |                |               |                |                |             |          |   |           |       |       |       |       |        |      |     |           |       |      |       |       |        |      |

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.5℃                | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V            |                    |     |
| Ant. Pol.     | Vertical             |                    |     |
| Test Mode:    | TX GFSK Mode 2480MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 10919.500       | 44.69          | -0.13         | 44.56          | 74.00          | -29.44      | peak     |
| 2   | 14005.000       | 41.22          | 2.61          | 43.83          | 74.00          | -30.17      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit. So only show the peak value.





|               |                                |                    |     |
|---------------|--------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                          | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V                      |                    |     |
| Ant. Pol.     | Horizontal                     |                    |     |
| Test Mode:    | TX $\pi$ /4-DQPSK Mode 2402MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 10843.000       | 43.97          | -0.31         | 43.66          | 74.00          | -30.34      | peak     |
| 2   | 12985.000       | 41.41          | 1.75          | 43.16          | 74.00          | -30.84      | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
3. Margin (dB) = Peak/AVG (dB $\mu$ V/m)-Limit PK/AVG(dB $\mu$ V/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.

|               |                                |                    |     |
|---------------|--------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                          | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V                      |                    |     |
| Ant. Pol.     | Vertical                       |                    |     |
| Test Mode:    | TX $\pi$ /4-DQPSK Mode 2402MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10894.000       | 43.41          | -0.19         | 43.22          | 74.00          | -30.78      | peak     |
| 2 * | 13469.500       | 41.10          | 2.16          | 43.26          | 74.00          | -30.74      | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
3. Margin (dB) = Peak/AVG (dB $\mu$ V/m)-Limit PK/AVG(dB $\mu$ V/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.





|               |                                |                    |     |
|---------------|--------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                          | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V                      |                    |     |
| Ant. Pol.     | Horizontal                     |                    |     |
| Test Mode:    | TX $\pi$ /4-DQPSK Mode 2441MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 12679.000       | 41.64          | 1.66          | 43.30          | 74.00          | -30.70      | peak     |
| 2 * | 14744.500       | 40.71          | 3.39          | 44.10          | 74.00          | -29.90      | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)

3. Margin (dB) = Peak/AVG (dB $\mu$ V/m)-Limit PK/AVG(dB $\mu$ V/m)

4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit, So only show the peak value.

|               |                                |                    |     |
|---------------|--------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                          | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V                      |                    |     |
| Ant. Pol.     | Vertical                       |                    |     |
| Test Mode:    | TX $\pi$ /4-DQPSK Mode 2441MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10511.500       | 43.83          | -1.08         | 42.75          | 74.00          | -31.25      | peak     |
| 2 * | 13520.500       | 42.05          | 2.20          | 44.25          | 74.00          | -29.75      | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)

3. Margin (dB) = Peak/AVG (dB $\mu$ V/m)-Limit PK/AVG(dB $\mu$ V/m)

4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit. So only show the peak value.





|               |                                |                    |     |
|---------------|--------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                          | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V                      |                    |     |
| Ant. Pol.     | Horizontal                     |                    |     |
| Test Mode:    | TX $\pi$ /4-DQPSK Mode 2480MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10894.000       | 44.03          | -0.19         | 43.84          | 74.00          | -30.16      | peak     |
| 2 * | 13342.000       | 42.24          | 2.06          | 44.30          | 74.00          | -29.70      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.

|               |                                |                    |     |
|---------------|--------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                          | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V                      |                    |     |
| Ant. Pol.     | Vertical                       |                    |     |
| Test Mode:    | TX $\pi$ /4-DQPSK Mode 2480MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10843.000       | 43.44          | -0.31         | 43.13          | 74.00          | -30.87      | peak     |
| 2 * | 13265.500       | 41.41          | 1.98          | 43.39          | 74.00          | -30.61      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.





|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.5°C                 | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V              |                    |     |
| Ant. Pol.     | Horizontal             |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 11098.000       | 43.02          | 0.19          | 43.21          | 74.00          | -30.79      | peak     |
| 2 * | 14566.000       | 40.43          | 3.21          | 43.64          | 74.00          | -30.36      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.5℃                  | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V              |                    |     |
| Ant. Pol.     | Vertical               |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10945.000       | 43.66          | -0.08         | 43.58          | 74.00          | -30.42      | peak     |
| 2 * | 13265.500       | 42.22          | 1.98          | 44.20          | 74.00          | -29.80      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.





|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.5℃                  | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V              |                    |     |
| Ant. Pol.     | Horizontal             |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2441MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 10945.000       | 43.93          | -0.08         | 43.85          | 74.00          | -30.15      | peak     |
| 2   | 14260.000       | 40.53          | 2.89          | 43.42          | 74.00          | -30.58      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit, So only show the peak value.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.5℃                  | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V              |                    |     |
| Ant. Pol.     | Vertical               |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2441MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10843.000       | 43.76          | -0.31         | 43.45          | 74.00          | -30.55      | peak     |
| 2 * | 13189.000       | 42.55          | 1.92          | 44.47          | 74.00          | -29.53      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
5. No report for the emission which below the prescribed limit.
6. The peak value<average limit, So only show the peak value.





|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.5°C                 | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V              |                    |     |
| Ant. Pol.     | Horizontal             |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2480MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 10996.000       | 43.83          | 0.05          | 43.88          | 74.00          | -30.12      | peak     |
| 2 * | 13291.000       | 41.89          | 2.00          | 43.89          | 74.00          | -30.11      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit, So only show the peak value.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.5°C                 | Relative Humidity: | 49% |
| Test Voltage: | DC 11.55V              |                    |     |
| Ant. Pol.     | Vertical               |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2480MHz |                    |     |

| No. | Frequency (MHz) | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 10792.000       | 44.24          | -0.42         | 43.82          | 74.00          | -30.18      | peak     |
| 2   | 15152.500       | 39.78          | 3.10          | 42.88          | 74.00          | -31.12      | 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 evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

5. No report for the emission which below the prescribed limit.

6. The peak value<average limit, So only show the peak value.

-----END OF THE REPORT-----

