

# **FCC TEST REPORT** FCC ID:2BFMV-CY900

Report Number.....: ZKT-240929L12522E-3

Date of Test...... September 24 to October 31, 2024

Date of issue.....: October 31, 2024

Total number of pages...... 59

Test Result .....: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial

Applicant's name ...... Shenzhen Chaoying Photoelectric Co., Ltd.

Manufacturer's name ...... Shenzhen Chaoying Photoelectric Co., Ltd.

community, Shiyan street, Bao'an District, Shenzhen

Test specification:

FCC CFR Title 47 Part 15 Subpart C Section 15.407

Standard.....: ANSI C63.10:2013

KDB 789033 D02 v01r02

Test procedure.....: /

Non-standard test method .....: N/A

Test Report Form No.....: TRF-EL-113\_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF ...... Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: Projector

Trademark ..... N/A

Model/Type reference.....:: CY900, CY600, CY700, CY800, J100, J200, J300, J400, J500, J600,

J700, J800, J900, Q2, Q3, Q4, Q6, Q9, Q10, HC-1, HC-2, HC-3, HC-4,

HC-5,HC-6,HC-7,HC-8,HC-9,HC-10

Ratings.....: AC110-240V 50/60Hz 1.8A

Shenzhen ZKT Technology Co., Ltd.











Shenzhen ZKT Technology Co., Ltd. Testing Laboratory....:

Address....: 1/F, No. 101, Building B, No. 6, Tangwei Community

Industrial Avenue, Fuhai Street, Bao'an District,

Shenzhen, China

Tested by (name + signature)..... Alen He

Reviewer (name + signature).....: Joe Liu

Approved (name + signature)....: Lake Xie





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### 1. VERSION

| Report No.          | Version | Description             | Approved         |
|---------------------|---------|-------------------------|------------------|
| ZKT-240929L12522E-3 | Rev.01  | Initial issue of report | October 31, 2024 |
|                     |         | @Ra                     | 9                |
|                     |         |                         |                  |

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### **2.SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

|   | FCC Part15 (15.407) , Subpart E         |          |        |
|---|---|----------|--------|
| Standard<br>Section   | Test Item                               | Judgment | Remark |
| 15.209(a),<br>15.407 (b)(1)<br>15.407 (b)(4)<br>15.407 (b)(8) | Spurious Radiated Emissions             | PASS     |        |
| 15.207  | Conducted Emission                      | PASS     |        |
| 15.407 (a)(12)<br>15.1049                                     | 26 dB and 99% Emission Bandwidth        | PASS     |        |
| 15.407 (a)(1)<br>15.407 (a)(3)                                | Maximum Conducted Output Power          | PASS     | 533    |
| 2.1051,<br>15.407(b)(1)<br>15.407(b)(4)                       | Band Edge                               | PASS     | 8/8    |
| 15.407 (a)(1)<br>15.407 (a)(3)                                | Power Spectral Density                  | PASS     |        |
| 2.1051,<br>15.407(b)  | Spurious Emissions at Antenna Terminals | PASS     |        |
| 15.203  | Antenna Requirement                     | PASS     |        |

### NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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#### 2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an

District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299 IC Registered No.: 27033 CAB identifier: CN0110

#### 2.2 MEASUREMENT UNCERTAINTY

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

| No. | Item  | Uncertaint |
|-----|---|------------|
| 100 | 3m camber Radiated spurious emission(9KHz-30MHz)  | U=4.5dB    |
| 2   | 3m camber Radiated spurious emission(30MHz-1GHz   | U=4.8dB    |
| 3   | 3m chamber Radiated spurious emission(1GHz-6GHz)  | U=4.9dB    |
| 4   | 3m chamber Radiated spurious emission(6GHz-40GHz) | U=5.0dB    |
| 5   | Conducted disturbance                             | U=3.2dB    |
| 6   | RF Band Edge                                      | U=1.68dB   |
| 7   | RF power conducted                                | U=1.86dB   |
| 8   | RF conducted Spurious Emission                    | U=2.2dB    |
| 9   | RF Occupied Bandwidth                             | U=1.8dB    |
| 10  | RF Power Spectral Density                         | U=1.75dB   |
| 11  | humidity uncertainty                              | U=5.3%     |
| 12  | Temperature uncertainty                           | U=0.59°C   |











### 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

| Product Name:            | Projector  | 110 GE   |  |  |  |
|--------------------------|--|--|--|--|--|
| Model No.:               | CY900,CY600,CY700,CY800,J100,J200,J300,J400,J500,J600,J700,<br>J800,J900,Q2,Q3,Q4,Q6,Q9,Q10,HC-1,HC-2,HC-3,HC-4,HC-5,HC-6<br>,HC-7,HC-8,HC-9,HC-10 |  |  |  |  |
| Model Different.:        | All models covered in this report are the same with each   |  |  |  |  |
|                          | other, except for different model No. and appearance (for  |  |  |  |  |
|                          | color, silk-screen only) for trading purpose.  |  |  |  |  |
| Sample ID                | ZKT-240805L9344  | E-1  |  |  |  |
| Sample(s) Status:        | Engineer sample  |  |  |  |  |
|                          | IEEE 802.11<br>WLAN<br>Mode Supported  | <ul> <li> ⊠ 802.11a/ac/n (20MHz channel bandwidth)</li> <li> ⊠ 802.11ac/n (40MHz channel bandwidth)</li> <li> ⊠ 802.11ac(80MHz channel bandwidth)</li> <li> 802.11a</li> </ul> |  |  |  |
| Product Description      | Data Rate  | 802.11/ac/n(HT20/HT40):MCS0-MCS15;<br>802.11ac(VHT80):NSS1, MCS0-MCS9  |  |  |  |
|                          | Modulation   | OFDM with<br>BPSK/QPSK/16QAM/64QAM/256QAM<br>for 802.11a/n/ac;   |  |  |  |
|                          | Operating<br>Frequency<br>Range  | <ul><li></li></ul>   |  |  |  |
|                          | Number of<br>Channels  |  |  |  |  |
| Channel List             | Please refer to the Note 2.  |  |  |  |  |
| Antenna Type:            | FPCB Antenna   |  |  |  |  |
| Antenna gain:            | 2.13dBi  |  |  |  |  |
| Power supply:            | AC110-240V 50/60Hz 1.8A  |  |  |  |  |
| SWITCHING POWER ADAPTER: | N/A  |  |  |  |  |
| Battery:                 | N/A  |  |  |  |  |

#### Note:

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

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| 802.11a/ac/n( 20MHz) Frequency Channel |                     |         |                     |         |                     |         |                     |
|--|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|
| Channel                                | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) |
| 36                                     | 5180                | 44      | 5220                | - C     | -                   | -       | -                   |
| 40                                     | 5200                | 48      | 5240                | _       | -                   | -       | -                   |

| 802.11ac/n(40MHz) Frequency Channel |                     |         |                     |         |                     |         |                     |
|-------------------------------------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|
| Channel                             | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) |
| 38                                  | 5190                | 4       | -                   | -       | -                   | -       | -                   |
| 46                                  | 5230                | -       | -                   | -       | -                   | -       | -                   |

| 802.11ac (80MHz) Frequency Channel |                 |  |
|------------------------------------|-----------------|--|
| Channel                            | Frequency (MHz) |  |
| 42                                 | 5210            |  |



#### 3.2 DESCRIPTION OF TEST MODES

| Transmitting mode Keep the | EUT in continuously transmitting mode |
|----------------------------|---------------------------------------|
|----------------------------|---------------------------------------|

Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

| Pretest Mode | Description                          |
|--------------|--------------------------------------|
| Mode 1       | 802.11a /ac / n 20 CH36/ CH40/ CH 48 |
| Mode 2       | 802.11ac / n 40 CH38/ CH 46          |
| Mode 3       | 802.11 ac80 CH 42                    |
| Mode 4       | Link Mode                            |

| Conducted Emission |             |  |  |  |
|--------------------|-------------|--|--|--|
| Final Test Mode    | Description |  |  |  |
| Mode 5             | Link Mode   |  |  |  |

| For Radiated Emission |                                      |  |  |  |
|-----------------------|--------------------------------------|--|--|--|
| Final Test Mode       | Description                          |  |  |  |
| Mode 1                | 802.11a /ac / n 20 CH36/ CH40/ CH 48 |  |  |  |
| Mode 2                | 802.11ac / n 40 CH38/ CH 46          |  |  |  |
| Mode 3                | 802.11 ac80 CH 42                    |  |  |  |

#### Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

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| Test Software     | Realtek Test Tool |
|-------------------|-------------------|
| Power level setup | <10dBm            |

#### 3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

**Conducted Emission** 

AC Line EUT

**Radiated Emission** 

AC Line EUT

**Conducted Spurious** 

AC Line EUT

### 3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------|-----------|----------------|------------|------|
| E-1  | Projector | N/A       | CY900          | Projector  | EUT  |
|      |           |           |                |            |      |
|      | 13        |           | 450            |            | 100  |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
|      |               |              |        |      |
|      |               |              |        |      |
|      |               |              |        |      |

### Note:

(1) The support equipment was authorized by Declaration of Confirmation.

+86-755-2233 6688

(2) For detachable type I/O cable should be specified the length in cm in <code>FLength</code> <code>\_</code> column.

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### 3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation emissions& Radio Test equipment

|      | Radiation emission                      | Sa Naulo Test el  | quipinient<br>I    |                       | Г:::::::::::::::::::::::::::::::::::: |                  |                  |
|------|---|-------------------|--------------------|-----------------------|---------------------------------------|------------------|------------------|
| Item | Equipment                               | Manufacturer      | Type No.           | Serial No.            | Firmware<br>Version                   | Last calibration | Calibrated until |
| 1    | Spectrum Analyzer<br>(9kHz-26.5GHz)     | KEYSIGHT          | 9020A              | MY55370835            | A.17.05                               | Nov. 02, 2023    | Nov. 01, 2024    |
| 2    | Spectrum Analyzer (10kHz-39.9GHz)       | R&S               | FSV40-N            | 100363                | 1.71 SP2                              | Nov. 02, 2023    | Nov. 01, 2024    |
| 3    | EMI Test Receiver<br>(9kHz-7GHz)        | R&S               | ESCI7              | 100969                | 4.32                                  | Nov. 02, 2023    | Nov. 01, 2024    |
| 4    | Bilog Antenna<br>(30MHz-1500MHz)        | Schwarzbeck       | VULB9168           | N/A                   | N/A                                   | Nov. 13, 2023    | Nov. 12, 2024    |
| 5    | Horn Antenna<br>(1GHz-18GHz)            | Agilent           | AH-118             | 071145                | N/A                                   | Nov. 13, 2023    | Nov. 12, 2024    |
| 6    | Horn Antenna<br>(15GHz-40GHz)           | A.H.System        | SAS-574            | 588                   | N/A                                   | Nov. 13, 2023    | Nov. 12, 2024    |
| 7    | Loop Antenna                            | TESEQ             | HLA6121            | 58357                 | N/A                                   | Nov. 16, 2023    | Nov. 15, 2024    |
| 8    | Amplifier<br>(30-1000MHz)               | EM<br>Electronics | EM330<br>Amplifier | 60747                 | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 9    | Amplifier<br>(1GHz-26.5GHz)             | HuiPu             | 8449B              | 3008A00315            | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 10   | Amplifier<br>(500MHz-40GHz)             | QuanJuDa          | DLE-161            | 097                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 11   | Test Cable                              | N/A               | R-01               | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 12   | Test Cable                              | N/A               | R-02               | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 13   | Test Cable                              | N/A               | R-03               | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 14   | Test Cable                              | N/A               | RF-01              | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 15   | Test Cable                              | N/A               | RF-02              | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 16   | Test Cable                              | N/A               | RF-03              | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 17   | ESG Signal<br>Generator                 | Agilent           | E4421B             | N/A                   | B.03.84                               | Nov. 02, 2023    | Nov. 01, 2024    |
| 18   | Signal Generator                        | Agilent           | N5182A             | N/A                   | A.01.87                               | Nov. 02, 2023    | Nov. 01, 2024    |
| 19   | Magnetic Field<br>Probe Tester          | Narda             | ELT-400            | 0-0344                | N/A                                   | Nov. 16, 2023    | Nov. 15, 2024    |
| 20   | Wideband Radio<br>Communication<br>Test | R&S               | CMW500             | 106504                | V 3.7.22                              | Nov. 02, 2023    | Nov. 01, 2024    |
| 21   | MWRF Power<br>Meter Test system         | MW                | MW100-RF<br>CB     | N/A                   | N/A                                   | Nov. 02, 2023    | Nov. 01, 2024    |
| 22   | D.C. Power Supply                       | LongWei           | TPR-6405D          | N/A                   | N/A                                   | \                | \                |
| 23   | EMC Software                            | Frad              | EZ-EMC             | Ver.EMC-CO<br>N 3A1.1 | N/A                                   | \                | \                |
| 24   | RF Software                             | MW                | MTS8310            | V2.0.0.0              | N/A                                   | 1                | \                |
| 25   | Turntable                               | MF                | MF-7802BS          | N/A                   | N/A                                   | 1                | \                |
| 26   | Antenna tower                           | MF                | MF-7802BS          | N/A                   | N/A                                   | \                | \                |
| 27   | Power Meter                             | KEYSIGHT          | N1912AP            | N/A                   | A.05.00                               | Nov. 02, 2023    | Nov. 01, 2024    |

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### Conducted emissions Test

| Item | Kind of Equipment      | Manufacturer | Type No. | Serial No.           | Firmware<br>Version | Last calibration | Calibrated until |
|------|------------------------|--------------|----------|----------------------|---------------------|------------------|------------------|
| 1    | LISN                   | R&S          | ENV216   | 101471               | N/A                 | Nov. 14, 2023    | Nov. 13, 2024    |
| 2    | LISN                   | CYBERTEK     | EM5040A  | E1850400149          | N/A                 | Nov. 02, 2023    | Nov. 01, 2024    |
| 3    | Test Cable             | N/A          | C-01     | N/A                  | N/A                 | Nov. 02, 2023    | Nov. 01, 2024    |
| 4    | Test Cable             | N/A          | C-02     | N/A                  | N/A                 | Nov. 02, 2023    | Nov. 01, 2024    |
| 5    | Test Cable             | N/A          | C-03     | N/A                  | N/A                 | Nov. 02, 2023    | Nov. 01, 2024    |
| 6    | EMI Test Receiver      | R&S          | ESCI3    | 101393               | 4.42 SP3            | Nov. 02, 2023    | Nov. 01, 2024    |
| 7    | Triple-Loop<br>Antenna | N/A          | RF300    | N/A                  | N/A                 | Nov. 02, 2023    | Nov. 01, 2024    |
| 8    | Absorbing Clamp        | DZ           | ZN23201  | 15034                | N/A                 | Nov. 07, 2023    | Nov. 06, 2024    |
| 9    | EMC Software           | Frad         | EZ-EMC   | Ver.EMC-CON<br>3A1.1 | N/A                 | \                | 1                |

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#### **4.EMC EMISSION TEST**

#### 4.1 CONDUCTED EMISSION MEASUREMENT

| Test Requirement:     | FCC Part15 C Section 15.207          |
|-----------------------|--------------------------------------|
| Test Method:          | ANSI C63.10:2013                     |
| Test Frequency Range: | 150KHz to 30MHz                      |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits

| EDECLIENCY (MLI-) | Limit (    | Standard  |          |
|-------------------|------------|-----------|----------|
| FREQUENCY (MHz)   | Quasi-peak | Average   | Standard |
| 0.15 -0.5         | 66 - 56 *  | 56 - 46 * | FCC      |
| 0.50 -5.0         | 56.00      | 46.00     | FCC      |
| 5.0 -30.0         | 60.00      | 50.00     | FCC      |

#### Note:

(1) \*Decreases with the logarithm of the frequency.

#### 4.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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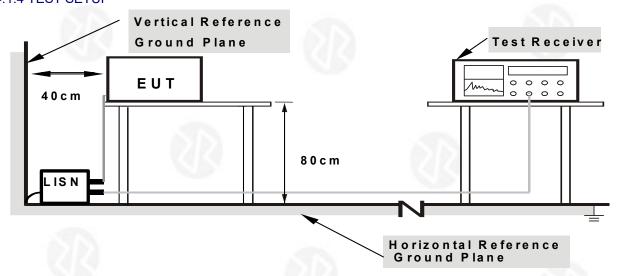








#### 4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

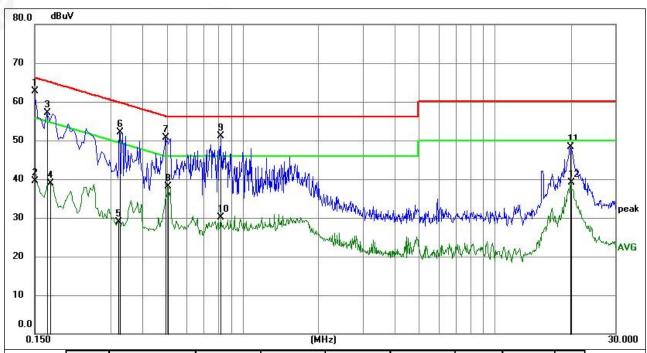
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### 4.1.6 TEST RESULT

| Temperature :  | <b>26</b> ℃  | Relative Humidity: | 54% |
|----------------|--------------|--------------------|-----|
| Pressure :     | 101kPa       | Phase :            | L   |
| Test Voltage : | AC 120V/60Hz |                    |     |



| - 4 | No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 100 | 1   | 0.1500             | 39.65             | 23.01          | 62.66           | 66.00           | -3.34          | QP       | Р   |
|     | 2   | 0.1500             | 16.58             | 23.01          | 39.59           | 56.00           | -16.41         | AVG      | Р   |
|     | 3   | 0.1680             | 34.54             | 22.61          | 57.15           | 65.06           | -7.91          | QP       | Р   |
|     | 4   | 0.1723             | 16.38             | 22.52          | 38.90           | 54.85           | -15.95         | AVG      | Р   |
|     | 5   | 0.3209             | 7.48              | 21.37          | 28.85           | 49.68           | -20.83         | AVG      | Р   |
|     | 6   | 0.3255             | 30.68             | 21.34          | 52.02           | 59.57           | -7.55          | QP       | Р   |
|     | 7   | 0.4964             | 30.19             | 20.56          | 50.75           | 56.06           | -5.31          | QP       | Р   |
|     | 8   | 0.5053             | 17.59             | 20.54          | 38.13           | 46.00           | -7.87          | AVG      | Р   |
|     | 9   | 0.8204             | 30.61             | 20.48          | 51.09           | 56.00           | -4.91          | QP       | Р   |
|     | 10  | 0.8204             | 9.59              | 20.48          | 30.07           | 46.00           | -15.93         | AVG      | Р   |
|     | 11  | 19.9363            | 28.37             | 19.85          | 48.22           | 60.00           | -11.78         | QP       | Р   |
|     | 12  | 20.0443            | 19.22             | 19.86          | 39.08           | 50.00           | -10.92         | AVG      | Р   |

1.An initial pre-scan was performed on the line and neutral lines with peak detector.

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- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

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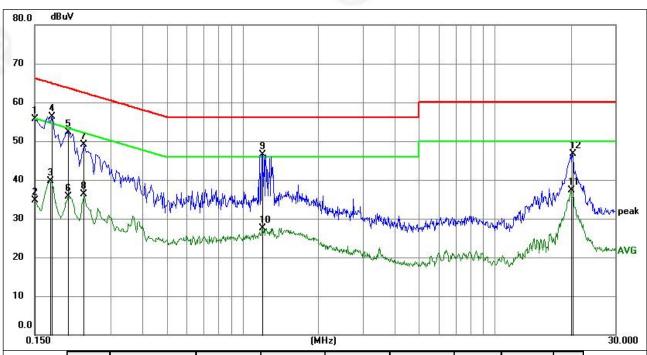








| Temperature :  | 26℃          | Relative Humidity: | 54% |
|----------------|--------------|--------------------|-----|
| Pressure :     | 101kPa       | Phase :            | N   |
| Test Voltage : | AC 120V/60Hz |                    | (4) |



|       | No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-------|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
|       | 1   | 0.1500             | 32.66             | 23.01          | 55.67           | 66.00           | -10.33         | QP       | Р   |
| - 4   | 2   | 0.1500             | 11.64             | 23.01          | 34.65           | 56.00           | -21.35         | AVG      | Р   |
| - 174 | 3   | 0.1723             | 17.13             | 22.52          | 39.65           | 54.85           | -15.20         | AVG      | Р   |
|       | 4   | 0.1758             | 33.79             | 22.44          | 56.23           | 64.68           | -8.45          | QP       | Р   |
|       | 5   | 0.2038             | 30.42             | 21.90          | 52.32           | 63.45           | -11.13         | QP       | Р   |
|       | 6   | 0.2038             | 13.84             | 21.90          | 35.74           | 53.45           | -17.71         | AVG      | Р   |
|       | 7   | 0.2353             | 27.42             | 21.76          | 49.18           | 62.26           | -13.08         | QP       | Р   |
|       | 8   | 0.2353             | 14.64             | 21.76          | 36.40           | 52.26           | -15.86         | AVG      | Р   |
|       | 9   | 1.1937             | 26.17             | 20.39          | 46.56           | 56.00           | -9.44          | QP       | Р   |
|       | 10  | 1.1982             | 7.14              | 20.39          | 27.53           | 46.00           | -18.47         | AVG      | Р   |
|       | 11  | 20.0805            | 17.46             | 19.86          | 37.32           | 50.00           | -12.68         | AVG      | Р   |
|       | 12  | 20.3414            | 26.84             | 19.86          | 46.70           | 60.00           | -13.30         | QP       | Р   |

### Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

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#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

#### 4.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15,205, Restricted bands

| decording to 1 GC 1 at 10.203, restricted bands |                     |               |             |  |  |  |  |
|---|---------------------|---------------|-------------|--|--|--|--|
| MHz   | MHz                 | MHz           | GHz         |  |  |  |  |
| 0.090-0.110                                     | 16.42-16.423        | 399.9-410     | 4.5-5.15    |  |  |  |  |
| 10.495-0.505                                    | 16.69475-16.69525   | 608-614       | 5.35-5.46   |  |  |  |  |
| 2.1735-2.1905                                   | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |  |  |  |  |
| 4.125-4.128                                     | 25.5-25.67          | 1300-1427     | 8.025-8.5   |  |  |  |  |
| 4.17725-4.17775                                 | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |  |  |  |  |
| 4.20725-4.20775                                 | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |  |  |  |  |
| 6.215-6.218                                     | 74.8-75.2           | 1660-1710     | 10.6-12.7   |  |  |  |  |
| 6.26775-6.26825                                 | 123-138             | 2200-2300     | 14.47-14.5  |  |  |  |  |
| 8.291-8.294                                     | 149.9-150.05        | 2310-2390     | 15.35-16.2  |  |  |  |  |
| 8.362-8.366                                     | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |  |  |  |  |
| 8.37625-8.38675                                 | 156.7-156.9         | 2690-2900     | 22.01-23.12 |  |  |  |  |
| 8.41425-8.41475                                 | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |  |  |  |  |
| 12.29-12.293                                    | 167.72-173.2        | 3332-3339     | 31.2-31.8   |  |  |  |  |
| 12.51975-12.52025                               | 240-285             | 3345.8-3358   | 36.43-36.5  |  |  |  |  |
| 12.57675-12.57725                               | 322-335.4           | 3600-4400     | (2)         |  |  |  |  |
| 13.36-13.41                                     | W A W A             |               | ·           |  |  |  |  |
|   |                     |               |             |  |  |  |  |

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength (µV/m) | Field Strength (dBµV/m) | Measurement Distance |
|---------------------------|-----------------------|-------------------------|----------------------|
| 0.009~0.490               | 2400/F(KHz)           | 20 log (uV/m)           | 300                  |
| 0.490~1.705               | 2400/F(KHz)           | 20 log (uV/m)           | 30                   |
| 1.705~30.0                | 30                    | 29.5                    | 30                   |
| 30-88                     | 100                   | 40                      | 3                    |
| 88-216                    | 150                   | 43.5                    | 3                    |
| 216-960                   | 200                   | 46                      | 3                    |
| Above 960                 | 500                   | 54                      | 3                    |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Frequency(MHz)   | Class B (dBuV/m) (at 3M) |         |  |  |
|------------------|--------------------------|---------|--|--|
| Frequency(Miriz) | PEAK                     | AVERAGE |  |  |
| Above 1000       | 74                       | 54      |  |  |

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

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#### 4.2.3 MEASURING INSTRUMENTS

The Measuring equipment is listed in the section 6.3 of this test report.

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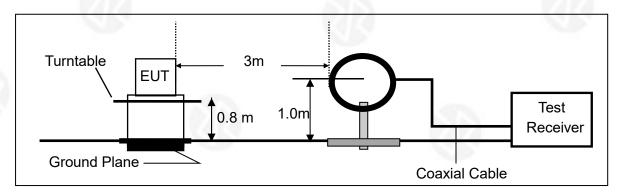




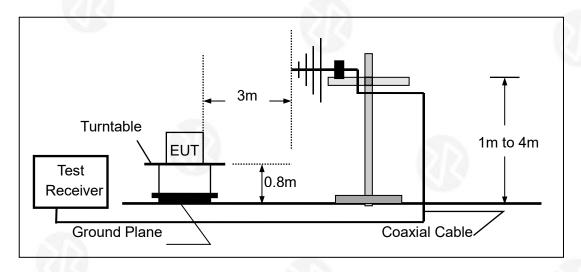


#### 4.2.4 TEST CONFIGURATION

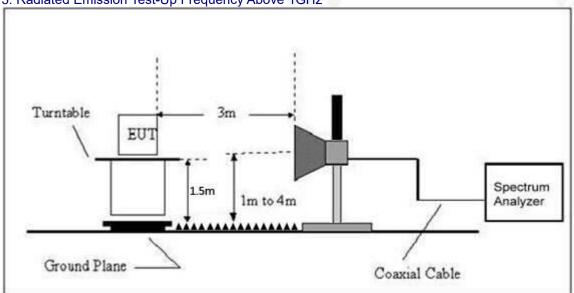
#### 1.For radiated emissions below 30MHz



### 2.For radiated emissions from 30MHz to 1000MHz



### 3. Radiated Emission Test-Up Frequency Above 1GHz



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#### 4.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

| Spectrum Parameter                    | Setting  |
|---------------------------------------|--|
| Attenuation                           | Auto   |
| Start Frequency                       | 1000 MHz   |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000           | QP       | 120 kHz              | 300 kHz         |
| Ab 200 4000          | Peak     | 1 MHz                | 1 MHz           |
| Above 1000           | Average  | 1 MHz                | 10 Hz           |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

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### 4.2.6 TEST RESULT

Between 9KHz - 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

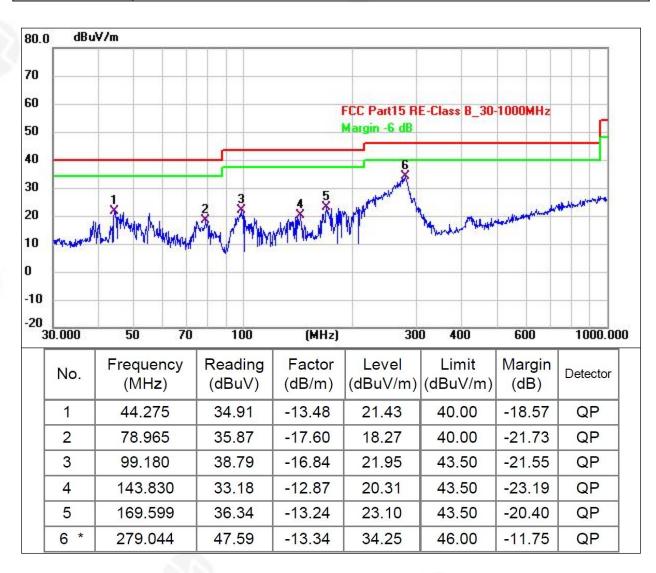
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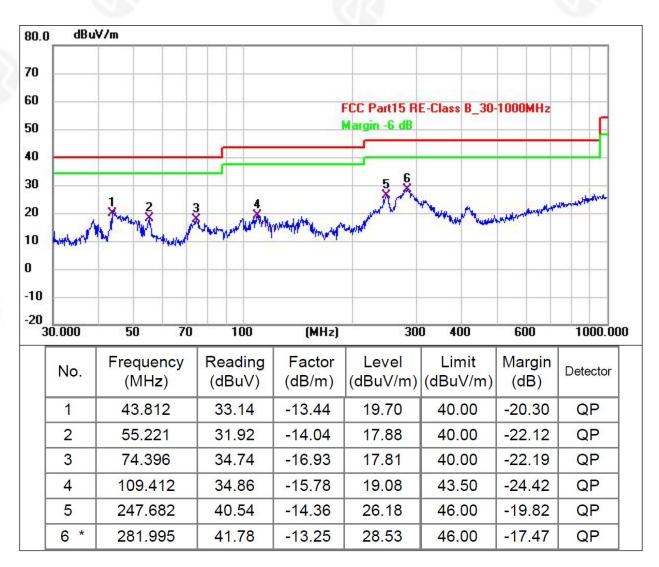
#### Between 30MHz - 1GHz

| Temperature:  | <b>26</b> ℃  | Relative Humidity: | 54%        |
|---------------|--------------|--------------------|------------|
| Pressure:     | 101 kPa      | Polarization:      | Horizontal |
| Test Voltage: | AC 120V/60Hz | 6.20               |            |





| Temperature:  | 26℃          | Relative Humidity: | 54%      |
|---------------|--------------|--------------------|----------|
| Pressure:     | 101kPa       | Polarization:      | Vertical |
| Test Voltage: | AC 120V/60Hz | 200                | 12/12/   |



#### Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The test data shows only the worst case 802.11n20 mode

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### Between 1GHz - 40GHz

| Temperature : | <b>26</b> ℃        | Relative Humidity: | 54%          |
|---------------|--------------------|--------------------|--------------|
| Pressure :    | 1010 hPa           | Test Voltage :     | AC 120V/60Hz |
| Test Mode :   | 5.2G TX- 802.11n20 |                    |              |

#### 802.11n20

|       |           |                  |                   | 802           | .11n20            |                   |              |        |        |
|-------|-----------|------------------|-------------------|---------------|-------------------|-------------------|--------------|--------|--------|
| Polar | Frequency | Meter<br>Reading | Pre-ampl<br>ifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits       | Margin | Detect |
| (H/V) | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB)              | (dBuV/m)          | (dBuV/<br>m) | (dB)   | Туре   |
|       |           |                  | L                 | ow Chan       | nel:5180MH        | Z                 |              |        |        |
| V     | 5150.00   | 44.02            | 30.45             | 8.77          | 38.66             | 61.00             | 74.00        | -13.00 | PK     |
| V     | 5150.00   | 34.46            | 30.45             | 8.77          | 38.66             | 51.44             | 54.00        | -2.56  | AV     |
| V     | 10360.00  | 53.74            | 30.55             | 5.77          | 24.66             | 53.62             | 74.00        | -20.38 | PK     |
| V     | 10360.00  | 43.49            | 30.55             | 5.77          | 24.66             | 43.37             | 54.00        | -10.63 | AV     |
| V     | 15540.00  | 51.88            | 30.33             | 6.32          | 24.55             | 52.42             | 74.00        | -21.58 | PK     |
| V     | 15540.00  | 42.93            | 30.33             | 6.32          | 24.55             | 43.47             | 54.00        | -10.53 | AV     |
| V     | 20720.00  | 49.99            | 30.85             | 7.45          | 24.69             | 51.28             | 74.00        | -22.72 | PK     |
| V     | 20720.00  | 42.99            | 30.85             | 7.45          | 24.69             | 44.28             | 54.00        | -9.72  | AV     |
| V     | 25900.00  | 50.46            | 31.02             | 8.99          | 25.57             | 54.00             | 74.00        | -20.00 | PK     |
| V     | 25900.00  | 43.17            | 31.02             | 8.99          | 25.57             | 46.71             | 54.00        | -7.29  | AV     |
| Н     | 5150.00   | 41.96            | 30.45             | 8.77          | 38.66             | 58.94             | 74.00        | -15.06 | PK     |
| Н     | 5150.00   | 32.32            | 30.45             | 8.77          | 38.66             | 49.30             | 54.00        | -4.70  | AV     |
| Н     | 10360.00  | 53.94            | 30.55             | 5.77          | 24.66             | 53.82             | 74.00        | -20.18 | PK     |
| Н     | 10360.00  | 43.52            | 30.55             | 5.77          | 24.66             | 43.40             | 54.00        | -10.60 | AV     |
| Н     | 15540.00  | 52.81            | 30.33             | 6.32          | 24.55             | 53.35             | 74.00        | -20.65 | PK     |
| Н     | 15540.00  | 43.15            | 30.33             | 6.32          | 24.55             | 43.69             | 54.00        | -10.31 | AV     |
| Н     | 20720.00  | 51.49            | 30.85             | 7.45          | 24.69             | 52.78             | 74.00        | -21.22 | PK     |
| Н     | 20720.00  | 43.66            | 30.85             | 7.45          | 24.69             | 44.95             | 54.00        | -9.05  | AV     |
| Н     | 25900.00  | 51.68            | 31.02             | 8.99          | 25.57             | 55.22             | 74.00        | -18.78 | PK     |
| Н     | 25900.00  | 42.83            | 31.02             | 8.99          | 25.57             | 46.37             | 54.00        | -7.63  | AV     |

| Polar | Frequency | Meter<br>Reading | Pre-ampl<br>ifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits       | Margin | Detect |
|-------|-----------|------------------|-------------------|---------------|-------------------|-------------------|--------------|--------|--------|
| (H/V) | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB)              | (dBuV/m)          | (dBuV/<br>m) | (dB)   | Туре   |
|       |           | 4.4              | Mi                | ddle Cha      | nnel:5200M        | Hz                |              |        |        |
| V     | 5150.00   | 41.95            | 30.45             | 8.77          | 38.66             | 58.93             | 74.00        | -15.07 | PK     |
| V     | 5150.00   | 32.29            | 30.45             | 8.77          | 38.66             | 49.27             | 54.00        | -4.73  | AV     |
| V     | 10400.00  | 53.17            | 30.55             | 5.77          | 24.66             | 53.05             | 74.00        | -20.95 | PK     |
| V     | 10400.00  | 42.62            | 30.55             | 5.77          | 24.66             | 42.50             | 54.00        | -11.50 | AV     |
| V     | 15600.00  | 53.59            | 30.33             | 6.32          | 24.55             | 54.13             | 74.00        | -19.87 | PK     |
| V     | 15600.00  | 43.54            | 30.33             | 6.32          | 24.55             | 44.08             | 54.00        | -9.92  | AV     |
| V     | 20800.00  | 52.20            | 30.85             | 7.45          | 24.69             | 53.49             | 74.00        | -20.51 | PK     |
| V     | 20800.00  | 42.61            | 30.85             | 7.45          | 24.69             | 43.90             | 54.00        | -10.10 | AV     |
| V     | 26000.00  | 51.16            | 31.02             | 8.99          | 25.57             | 54.70             | 74.00        | -19.30 | PK     |
| V     | 26000.00  | 43.59            | 31.02             | 8.99          | 25.57             | 47.13             | 54.00        | -6.87  | AV     |
| Н     | 5150.00   | 42.86            | 30.45             | 8.77          | 38.66             | 59.84             | 74.00        | -14.16 | PK     |
| Н     | 5150.00   | 33.05            | 30.45             | 8.77          | 38.66             | 50.03             | 54.00        | -3.97  | AV     |
| Н     | 10400.00  | 52.70            | 30.55             | 5.77          | 24.66             | 52.58             | 74.00        | -21.42 | PK     |
| Н     | 10400.00  | 42.60            | 30.55             | 5.77          | 24.66             | 42.48             | 54.00        | -11.52 | AV     |
| Н     | 15600.00  | 51.01            | 30.33             | 6.32          | 24.55             | 51.55             | 74.00        | -22.45 | PK     |

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Page 25 of 59 15600.00 43.45 30.33 6.32 43.99 -10.01 24.55 54.00 ΑV Н 20800.00 53.59 54.88 74.00 -19.12 PΚ 30.85 7.45 24.69 Н 20800.00 42.92 44.21 54.00 -9.79 ΑV 30.85 7.45 24.69 52.14 25.57 55.68 74.00 -18.32 PΚ Н 26000.00 31.02 8.99 Н 26000.00 43.34 31.02 8.99 25.57 46.88 54.00 -7.12 ΑV

| Polar | Frequency | Meter<br>Reading | Pre-ampli<br>fier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits       | Margin | Detect |
|-------|-----------|------------------|-------------------|---------------|-------------------|-------------------|--------------|--------|--------|
| (H/V) | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB)              | (dBuV/m)          | (dBuV/<br>m) | (dB)   | Туре   |
|       |           |                  | A COLOR           | ligh Chan     | nel:5240MH        | z                 |              |        |        |
| V     | 5350.00   | 42.83            | 30.45             | 8.77          | 38.66             | 59.81             | 74.00        | -14.19 | PK     |
| V     | 5350.00   | 32.35            | 30.45             | 8.77          | 38.66             | 49.33             | 54.00        | -4.67  | AV     |
| V     | 10480.00  | 52.85            | 30.55             | 5.77          | 24.66             | 52.73             | 74.00        | -21.27 | PK     |
| V     | 10480.00  | 43.68            | 30.55             | 5.77          | 24.66             | 43.56             | 54.00        | -10.44 | AV     |
| V     | 15720.00  | 54.09            | 30.33             | 6.32          | 24.55             | 54.63             | 74.00        | -19.37 | PK     |
| V     | 15720.00  | 43.78            | 30.33             | 6.32          | 24.55             | 44.32             | 54.00        | -9.68  | AV     |
| V     | 20960.00  | 50.26            | 30.85             | 7.45          | 24.69             | 51.55             | 74.00        | -22.45 | PK     |
| V     | 20960.00  | 43.55            | 30.85             | 7.45          | 24.69             | 44.84             | 54.00        | -9.16  | AV     |
| V     | 26200.00  | 52.54            | 31.02             | 8.99          | 25.57             | 56.08             | 74.00        | -17.92 | PK     |
| V     | 26200.00  | 43.87            | 31.02             | 8.99          | 25.57             | 47.41             | 54.00        | -6.59  | AV     |
| Н     | 5350.00   | 42.06            | 30.45             | 8.77          | 38.66             | 59.04             | 74.00        | -14.96 | PK     |
| Н     | 5350.00   | 32.43            | 30.45             | 8.77          | 38.66             | 49.41             | 54.00        | -4.59  | AV     |
| Н     | 10480.00  | 50.69            | 30.55             | 5.77          | 24.66             | 50.57             | 74.00        | -23.43 | PK     |
| Н     | 10480.00  | 43.60            | 30.55             | 5.77          | 24.66             | 43.48             | 54.00        | -10.52 | AV     |
| Н     | 15720.00  | 53.59            | 30.33             | 6.32          | 24.55             | 54.13             | 74.00        | -19.87 | PK     |
| Н     | 15720.00  | 43.75            | 30.33             | 6.32          | 24.55             | 44.29             | 54.00        | -9.71  | AV     |
| Н     | 20960.00  | 51.26            | 30.85             | 7.45          | 24.69             | 52.55             | 74.00        | -21.45 | PK     |
| Н     | 20960.00  | 43.83            | 30.85             | 7.45          | 24.69             | 45.12             | 54.00        | -8.88  | AV     |
| Н     | 26200.00  | 50.59            | 31.02             | 8.99          | 25.57             | 54.13             | 74.00        | -19.87 | PK     |
| Н     | 26200.00  | 42.97            | 31.02             | 8.99          | 25.57             | 46.51             | 54.00        | -7.49  | AV     |

#### Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4. The worst mode is 802.11n20, only the worst data is recorded.

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#### 5.POWER SPECTRAL DENSITY TEST

#### 5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(3)

Power limits:

- (1) For the band 5.15-5.25 GHz.
- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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#### 5.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW ≥ 1/T, where T is defined in section II.B.l.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

#### 5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

| EUT          |     | SPECTRUM |
|--------------|-----|----------|
| SAMPLE COLOR | · · | ANALYZER |

### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

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### 5.6 TEST RESULTS

| Temperature : | 26 ℃     | Relative Humidity: | 54%          |
|---------------|----------|--------------------|--------------|
| Pressure :    | 1015 hPa | Test Voltage :     | AC 120V/60Hz |
| Test Mode :   | TX       |                    |              |

| Test mode      | Test Channel<br>(MHz) | PSD [dBm/MHz] | Limit<br>(dBm/MHz) | Result |
|----------------|-----------------------|---------------|--------------------|--------|
|                | 5180                  | -0.287        | 11                 | Pass   |
| 802.11a        | 5200                  | -0.261        | 11                 | Pass   |
|                | 5240                  | -0.550        | 11                 | Pass   |
| 0712           | 5180                  | -1.601        | 11                 | Pass   |
| 802.11n(HT20)  | 5200                  | -1.451        | 11                 | Pass   |
|                | 5240                  | -1.372        | 11                 | Pass   |
| 000 44 (UT40)  | 5190                  | -4.988        | 11                 | Pass   |
| 802.11n(HT40)  | 5230                  | -4.539        | 11                 | Pass   |
|                | 5180                  | -1.834        | 11                 | Pass   |
| 802.11ac(VH20) | 5200                  | -1.446        | 11                 | Pass   |
|                | 5240                  | -1.291        | 11                 | Pass   |
| 802.11ac(VH40) | 5190                  | -4.406        | 11                 | Pass   |
|                | 5230                  | -5.505        | 11                 | Pass   |
| 802.11ac(VH80) | 5210                  | -8.852        | 11                 | Pass   |

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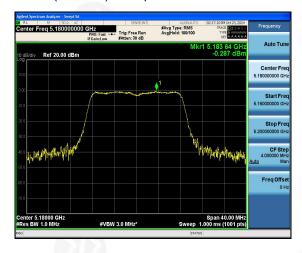




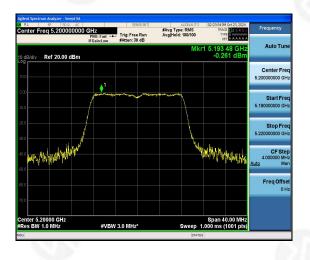




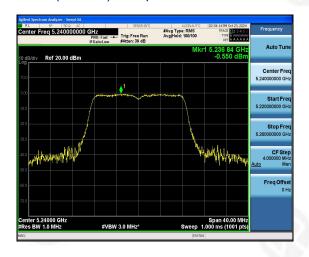
### (802.11a) PSD plot on channel 36



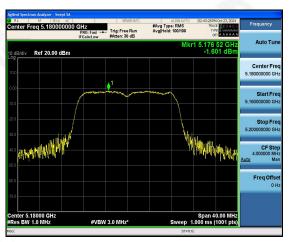
### (802.11a) PSD plot on channel 40



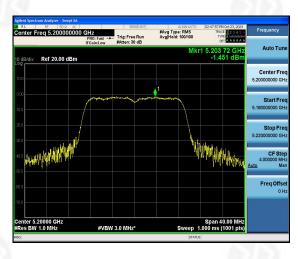
### (802.11a) PSD plot on channel 48



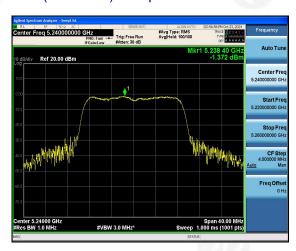
### (802.11n20) PSD plot on channel 36



### (802.11n20) PSD plot on channel 40



### (802.11n20) PSD plot on channel 48



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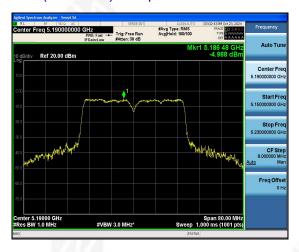
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### (802.11n40) PSD plot on channel 38



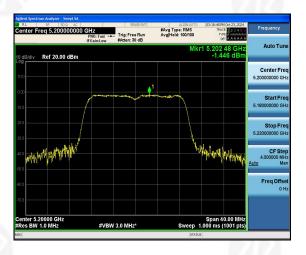
### (802.11n40) PSD plot on channel 46



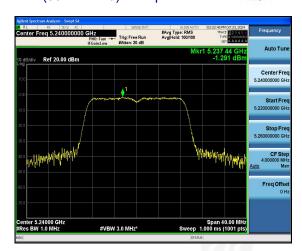
### (802.11ac20) PSD plot on channel 36



(802.11ac20) PSD plot on channel 40



(802.11ac20) PSD plot on channel 48



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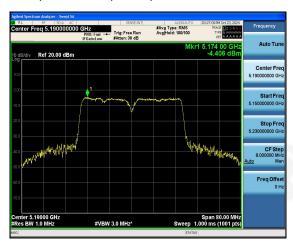




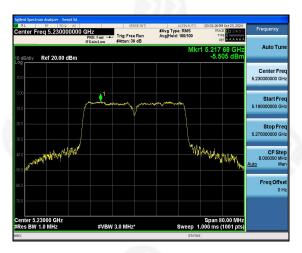




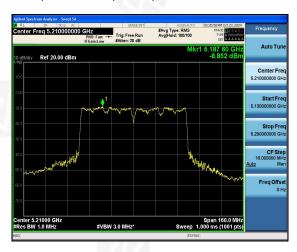
### (802.11ac40) PSD plot on channel 38



### (802.11ac40) PSD plot on channel 46



(802.11ac80) PSD plot on channel 42



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#### 6. 26DB & 99% EMISSION BANDWIDTH

#### 6.1 APPLIED PROCEDURES / LIMIT

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

#### **6.2 TEST PROCEDURE**

- a) Set RBW = 100KHz.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW ≥ 3 · RBW
- 5. 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.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. 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% occupied bandwidth is the difference between these two frequencies.



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### **6.3 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.4 TEST RESULTS

| Temperature : | 26 ℃   | Relative Humidity : | 54%          |
|---------------|--------|---------------------|--------------|
| Pressure :    | 101kPa | Test Voltage :      | AC 120V/60Hz |
| Test Mode :   | TX     |                     |              |

| Mode    | Channel | Frequency (MHz) | 26dB<br>bandwidth<br>(MHz) | 99%<br>bandwidth(MHz) | Limit(<br>KHz) | Result |
|---------|---------|-----------------|----------------------------|-----------------------|----------------|--------|
| -00     | CH36    | 5180            | 28.17                      | 17.113                |                |        |
| 802.11a | CH40    | 5200            | 30.05                      | 17.144                |                |        |
| CA.     | CH48    | 5240            | 30.16                      | 17.096                |                | - 6    |
| 000.44  | CH36    | 5180            | 34.57                      | 18.175                |                |        |
| 802.11  | CH40    | 5200            | 29.76                      | 18.187                |                |        |
| n20     | CH48    | 5240            | 29.56                      | 18.213                |                |        |
| 802.11  | CH38    | 5190            | 54.80                      | 36.816                |                |        |
| n40     | CH46    | 5230            | 58.47                      | 36.763                | >500           | Pass   |
| 000.44  | CH36    | 5180            | 32.61                      | 17.908                |                |        |
| 802.11  | CH40    | 5200            | 33.88                      | 17.892                |                |        |
| ac20    | CH48    | 5240            | 33.69                      | 17.916                |                |        |
| 802.11  | CH38    | 5190            | 52.07                      | 36.751                |                |        |
| ac40    | CH46    | 5230            | 52.29                      | 36.729                |                |        |
| 802.11  | CLIAG   | E040            | 00.70                      | 76 420                |                |        |
| AC80    | CH42    | 5210            | 89.78                      | 76.139                |                |        |

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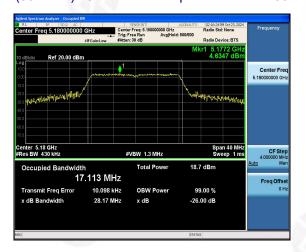




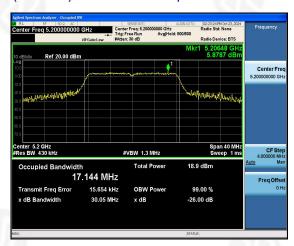


### Test plot

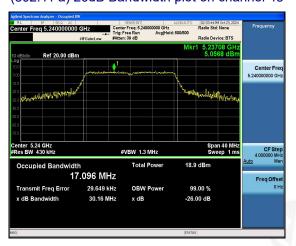
### (802.11 a) 26dB Bandwidth plot on channel 36



### (802.11 a) 26dB Bandwidth plot on channel 40



## (802.11 a) 26dB Bandwidth plot on channel 48



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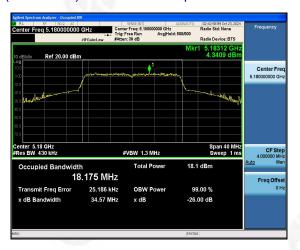




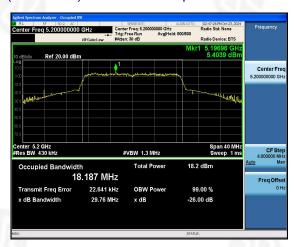


### Test plot

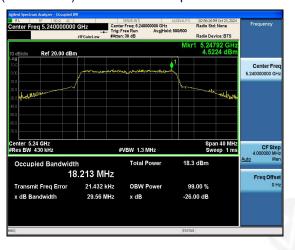
### (802.11 n20) 26dB Bandwidth plot on channel 36



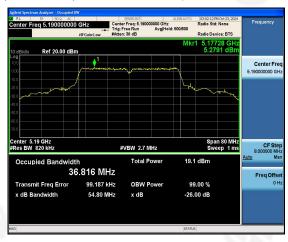
### (802.11 n40) 26dBBandwidth plot on channel 38



### (802.11 n20) 26dB Bandwidth plot on channel 40



### (802.11 n40) 26dB Bandwidth plot on channel 46



### (802.11 n20) 26dB Bandwidth plot on channel 48



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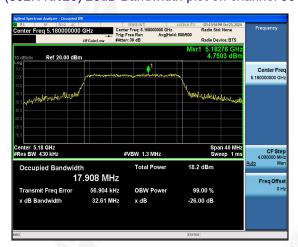






#### Test plot

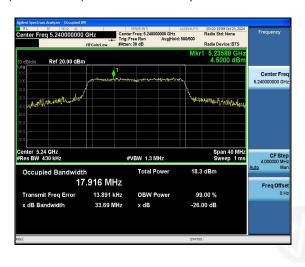
### (802.11ac20) 26dB Bandwidth plot on channel 36



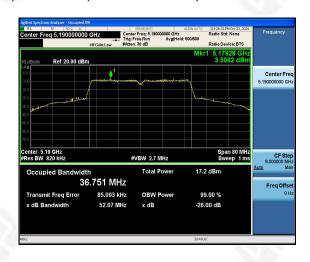
### (802.11 ac40) 26dB Bandwidth plot on channel 38



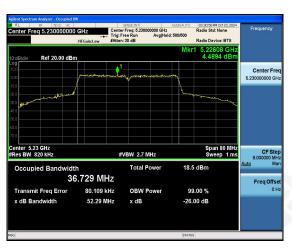
#### (802.11ac20) 26dB Bandwidth plot on channel 40



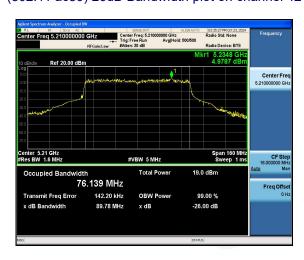
(802.11 ac40) 26dB Bandwidth plot on channel 46



### (802.11ac20) 26dB Bandwidth plot on channel 48



### (802.11 ac80) 26dB Bandwidth plot on channel 42



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#### 7.MAXIMUM CONDUCTED OUTPUT POWER

#### 7.1 PPLIED PROCEDURES / LIMIT

#### According to FCC §15.407

The maximum conduced output power should not exceed:

| Frequency Band(MHz) | Limit |
|---------------------|-------|
| 5150~5250           | 250mW |
| 5725~5850           | 1W    |

#### 7.2 TEST PROCEDURE

The EUT was directly connected to the Power meter

#### 1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

- a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
- b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

#### 2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

- a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
- The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- · Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
- (ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.
- (iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.
- b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

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(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

#### 7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

| EUT | POWER | METER |
|-----|-------|-------|
|     |       |       |

#### 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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### 7.6 TEST RESULTS

| Temperature : | 26 ℃     | Relative Humidity: | 54%          |
|---------------|----------|--------------------|--------------|
| Pressure :    | 1012 hPa | Test Voltage :     | AC 120V/60Hz |
| Test Mode :   | тх       |                    |              |

| Test Channel | Frequency<br>(MHz) | Maximum output power (dBm) | LIMIT | Result |
|--------------|--------------------|----------------------------|-------|--------|
|              |                    | , ,                        |       |        |
| TX 802.      | 11 a Mode          |                            |       |        |
| CH36         | 5180               | 7.24                       | 23.98 | Pass   |
| CH40         | 5200               | 7.38                       | 23.98 | Pass   |
| CH48         | 5240               | 7.29                       | 23.98 | Pass   |
| TX 802.11    | n20M Mode          | -                          |       | 1414   |
| CH36         | 5180               | 7.61                       | 23.98 | Pass   |
| CH40         | 5200               | 7.48                       | 23.98 | Pass   |
| CH48         | 5240               | 7.54                       | 23.98 | Pass   |
| TX 802.11    | n40M Mode          |                            |       |        |
| CH38         | 5190               | 6.35                       | 23.98 | Pass   |
| CH46         | 5230               | 6.60                       | 23.98 | Pass   |
| TX 802.11    | ac20M Mode         | D) V//                     | 0     |        |
| CH36         | 5180               | 6.64                       | 23.98 | Pass   |
| CH40         | 5200               | 6.57                       | 23.98 | Pass   |
| CH48         | 5240               | 6.53                       | 23.98 | Pass   |
| TX 802.11    | ac40M Mode         |                            |       |        |
| CH38         | 5190               | 6.66                       | 23.98 | Pass   |
| CH46         | 5230               | 6.73                       | 23.98 | Pass   |
| TX 802.11    | ac80M Mode         | CATCA                      |       |        |
| CH42         | 5210               | 6.52                       | 23.98 | Pass   |

Shenzhen ZKT Technology Co., Ltd.
1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China







