TEST REPORT

CT通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID: 2AJ3GRS-SNW Product: Wireless receptor Model No.: RS-SNW-B Additional Model No.: RS-SNW-W Trade Mark: N/A Report No.: TCT160918E015 Issued Date: Jan. 05, 2017

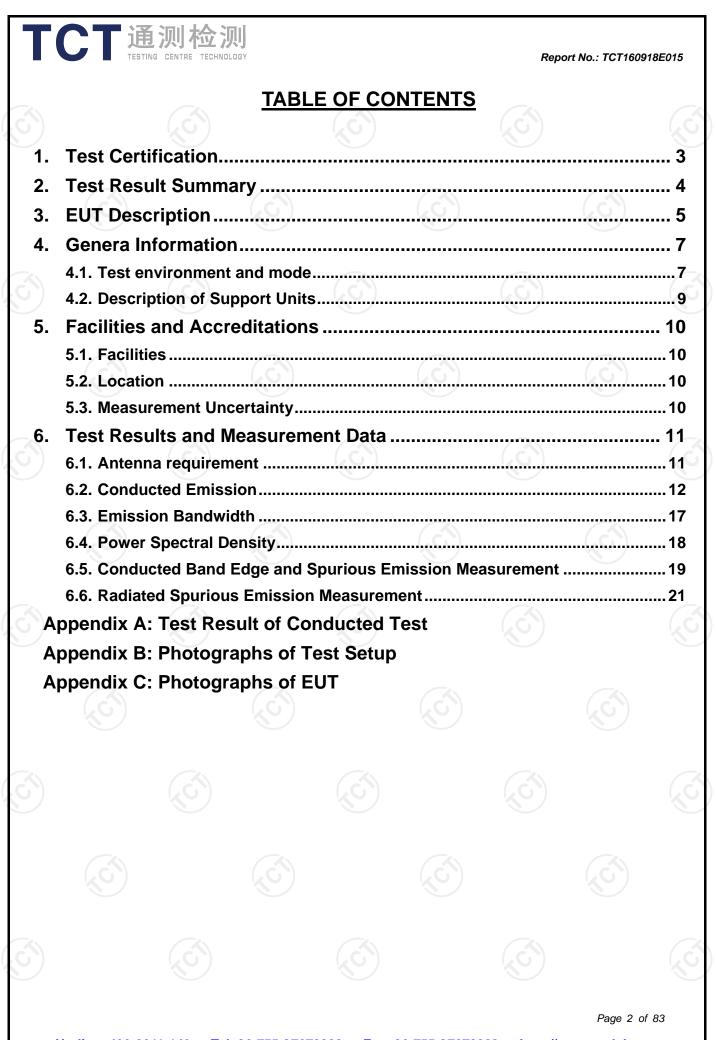
> > Issued for:

Zhuhai RaySharp Technology Co., Ltd NO.100 OF TECHNOLOGY ROAD 6, NATIONAL HI-TECH ZONE, ZHUHAI, GUANGDONG, P.R.CHINA

Issued By:

Shenzhen Tongce Testing Lab. 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China TEL: +86-755-27673339 FAX: +86-755-27673332

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1. Test Certification

CT 通测检测 TESTING CENTRE TECHNOLOGY

| Product: | Wireless receptor |
|--------------------------|--|
| Model No.: | RS-SNW-B |
| Additional Model No.: | RS-SNW-W |
| Applicant: | Zhuhai RaySharp Technology Co., Ltd |
| Address: | NO.100 OF TECHNOLOGY ROAD 6, NATIONAL HI-TECH ZONE, ZHUHAI, GUANGDONG, P.R.CHINA |
| Manufacturer: | Zhuhai RaySharp Technology Co., Ltd |
| Address: | NO.100 OF TECHNOLOGY ROAD 6, NATIONAL HI-TECH ZONE, ZHUHAI, GUANGDONG, P.R.CHINA |
| Date of Test: | Sep. 18, 2016 – Jan. 04, 2017 |
| Applicable Standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05 |
| | |

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Ser Tested By: Jan. 04, 2017 Date: Beryl Zhao **Reviewed By:** Jan. 05, 2017 Date: Joe Zhou omsm Approved By: Date: Jan. 05, 2017 Tomsin Page 3 of 83

2. Test Result Summary

| Requirement | CFR 47 Section | Result |
|----------------------------------|-------------------------------------|--------|
| Antenna requirement | §15.203/§15.247 (c) | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Conducted Peak Output Power | §15.247 (b)(3) §2.1046 | PASS |
| 6dB Emission Bandwidth | §15.247 (a)(2) §2.1049 | PASS |
| Power Spectral Density | §15.247 (e) | PASS |
| Band Edge | 1§5.247(d) §2.1051, §2.1057 | PASS |
| Spurious Emission | §15.205/§15.209 §2.1053, §2.1057 | PASS |
| Noto: | | |

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

| Product Name: | Wireless receptor | K C |
|---|--|-----|
| Model : | RS-SNW-B | |
| Additional Model: | RS-SNW-W | |
| Trade Mark: | N/A | |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) | Č |
| Channel Separation: | 5MHz | R C |
| Number of Channel: | 11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40) | |
| Modulation Technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) | |
| Modulation Technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) | |
| Data speed (IEEE 802.11b): | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps | N. |
| Data speed (IEEE 802.11g): | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps | |
| Data speed (IEEE 802.11n): | Up to 135Mbps | |
| Antenna Type: | Reversed SMA antenna | |
| Antenna Gain: | 2.5dBi | |
| Power Supply: | DC 12V | |
| Remark: | All models above are identical in interior structure, electrical circuits and components, and just model names and the color of appearance are different for the marketing requirement. | |

Operation Frequency each of channel For 802.11n (HT40)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|-------------------|-----------|
| | - () | 4 | 2427MHz | 7 | 2442MHz | 4 | |
| | - 60 | 5 | 2432MHz | 8 | 2447MHz | (\underline{O}) | |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2412MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2462MHz |

802.11n (HT40)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2422MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2452MHz |

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Report No.: 1011005

Operation Frequency each of channel For 802.11b/g/n(HT20) Frequency Channel Frequency Channel Frequency Channel Channel Frequency 2412MHz 4 2427MHz 2442MHz 10 2457MHz 1 7 2 5 11 2462MHz 2417MHz 2432MHz 8 2447MHz 3 2422MHz 6 2437MHz 9 2452MHz

Report No.: TCT160918E015

Genera Information 4.

4.1. Test environment and mode

Operating Environment:

| Temperature: | 25.0 °C | |
|-----------------------|-----------|--|
| Humidity: | 56 % RH | |
| Atmospheric Pressure: | 1010 mbar | |

Test Mode:

| Engineering mode: | Keep the EUT in continuous transmitting |
|-------------------|---|
| | by select channel and modulations(The |
| | value of duty cycle is 98.46%) |
| | |

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | Data rate | |
|---|---|--|
| 802.11b | 1Mbps | |
| 802.11g | 6Mbps | |
| 802.11n(H20) | 6.5Mbps | |
| 802.11n(H40) | 13.5Mbps | |
| Final Test Mode: | | |
| Operation mode: | Keep the EUT in continuous transmitting with modulation | |
| 1. For WIFI function, the engineering t EUT continuous transmit/receive. | test program was provided and enabled to make | |

2.According to ANSI C63.10 standards, the test results are both the "worst case" and

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| odulations. | | is 98.5% wi | | |
|-------------|--|-------------|--|--|
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4.2. Description of Support Units

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.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|---------------|------------|--------|------------|
| Adapter | XED-UL120100C | 1 | / | XED |

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

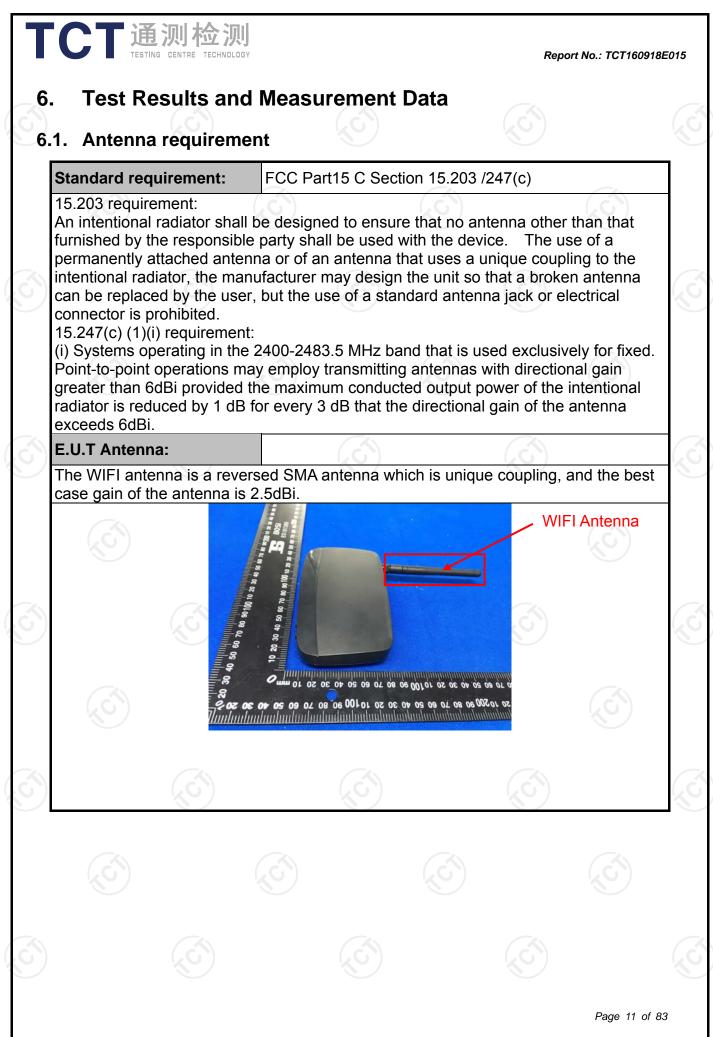
Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China Tel: 86-755-36638142

5.3. 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 %.

| | | NALL. | |
|-----|-------------------------------|---------|-----|
| No. | Item | MU | |
| 1 | Conducted Emission | ±2.56dB | |
| 2 | RF power, conducted | ±0.12dB | |
| 3 | Spurious emissions, conducted | ±0.11dB | |
| 4 | All emissions, radiated(<1G) | ±3.92dB | |
| 5 | All emissions, radiated(>1G) | ±4.28dB | (S) |
| 6 | Temperature | ±0.1°C | |
| 7 | Humidity | ±1.0% | |
| | | | |





| Test Requirement: | FCC Part15 C Sectior | FCC Part15 C Section 15.207 | | | | | |
|-------------------|---|--|----------------------|--|--|--|--|
| Test Method: | ANSI C63.10:2013 | ANSI C63.10:2013 | | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | |
| | Frequency range | Limit (| | | | | |
| Limits: | (MHz) 0.15-0.5 | Quasi-peak 66 to 56* | Average 56 to 46* | | | | |
| | 0.5-5 5-30 | 56 60 | 46 50 | | | | |
| | Reference | ce Plane | | | | | |
| Test Setup: | Test table/Insulation plane Remarkc E.U.T: Equipment Under Test | Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network | | | | | |
| Test Mode: | Transmitting with mod | Iulation | | | | | |
| Test Procedure: | The E.U.T is connected to the main power throug line impedance stabilization network (L.I.S.N.). provides a 50ohm/50uH coupling impedance for measuring equipment. The peripheral devices are also connected to the r power through a LISN that provides a 50ohm/5 coupling impedance with 50ohm termination. (Ple refer to the block diagram of the test setup photographs). Both sides of A.C. line are checked for maxin conducted interference. In order to find the maxin emission, the relative positions of equipment and a the interface cables must be changed according | | | | | | |
| Test Result: | PASS | | | | | | |

6.2. Conducted Emission

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6.2.1. Test Specification

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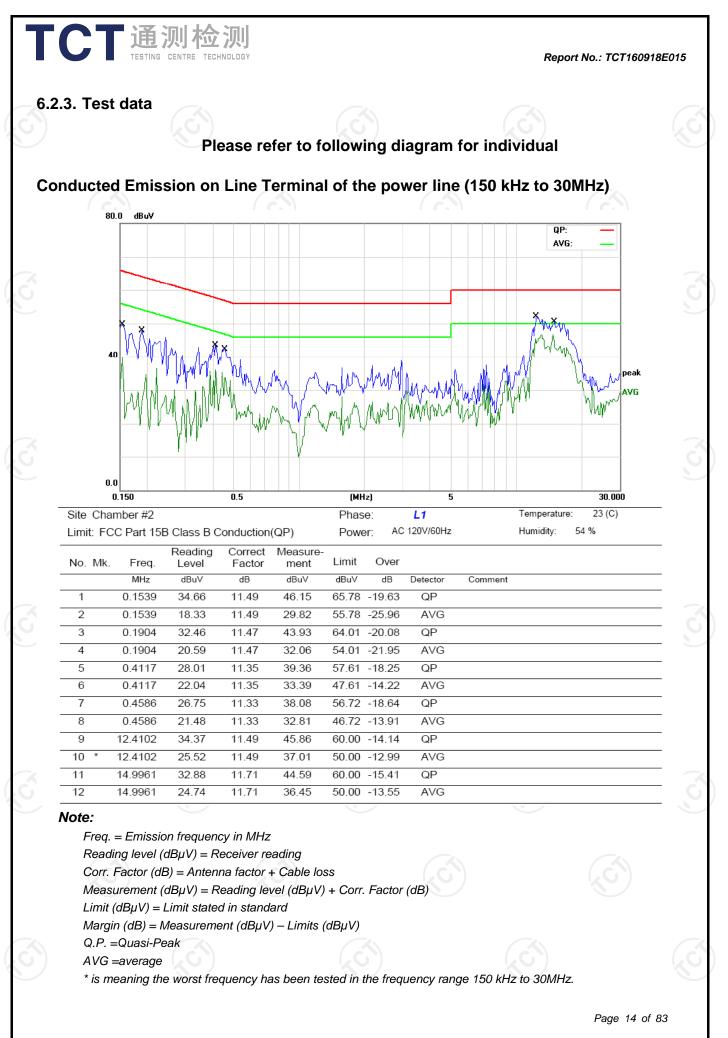
6.2.2. Test Instruments

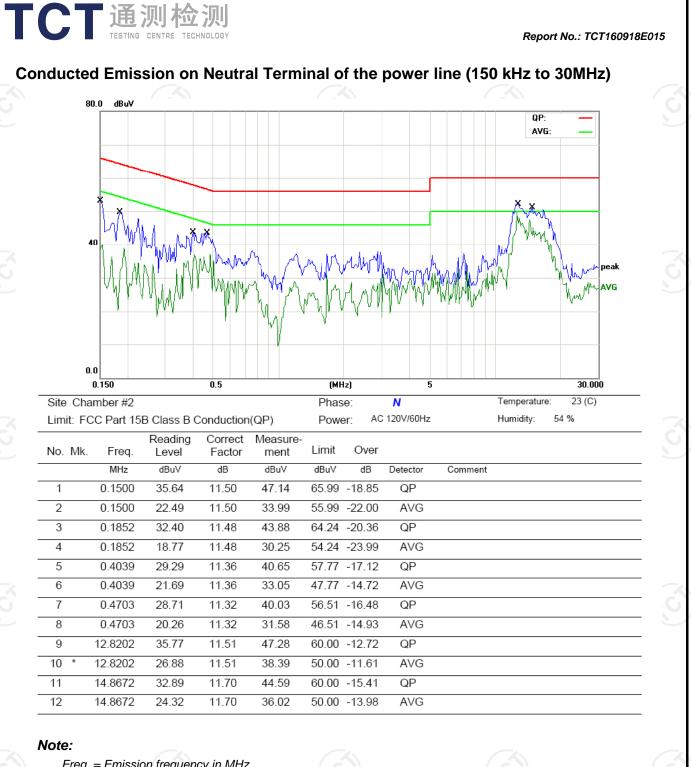
TCT通测检测 TECTING CENTRE TECHNOLOGY

| Conducted Emission Shielding Room Test Site (843) | | | | | | | |
|---|-----------------------|-----------|---------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | |
| EMI Test Receiver | R&S | ESCS30 | 100139 | Aug. 11, 2017 | | | |
| LISN | Schwarzbeck | NSLK 8126 | 8126453 | Aug. 16, 2017 | | | |
| Coax cable (9kHz-40GHz) | тст | CE-05 | N/A | Aug. 11, 2017 | | | |
| EMI Test Software | Shurple Technology | EZ-EMC | N/A | N/A | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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| 2.5. Test Specification | |
|-------------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | KDB 558074 |
| Limit: | 30dBm |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. |
| Test Result: | PASS |

6.2.6. Test Instruments

CT通测检测 TESTING CENTRE TECHNOLOGY

| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|--------------------------|--------------|--------|---------------|-----------------|
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Aug. 12, 2017 |
| RF cable (9kHz-40GHz) | тст | RE-06 | N/A | Aug. 12, 2017 |
| Antenna Connector | тст | RFC-01 | N/A | Aug. 12, 2017 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Report No.: TCT160918E015

| 6. | CT通测检测 .3. Emission Bandwidth 3.1. Test Specification | Report No.: TCT160918E | 015 |
|----|---|---|-----|
| | Test Requirement: | FCC Part15 C Section 15.247 (a)(2) | |
| | Test Method: | KDB 558074 | |
| | Limit: | >500kHz | |
| | Test Setup: | Spectrum Analyzer EUT | |
| | Test Mode: | Transmitting mode with modulation | |
| | Test Procedure: | The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. | |
| | Test Result: | PASS | |

6.3.2. Test Instruments

| RF Test Room | | | | | | | |
|--------------------------|--------------|--------|---------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Aug. 12, 2017 | | | |
| RF cable (9kHz-40GHz) | тст | RE-06 | N/A | Aug. 12, 2017 | | | |
| Antenna Connector | тст | RFC-01 | N/A | Aug. 12, 2017 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

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| Report No.: TCT160918E015 |
|---------------------------|
| |
| |

6.4. Power Spectral Density

6.4.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (e) |
|-------------------|---|
| Test Method: | KDB 558074 |
| Limit: | The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission. |
| Test Setup: | |
| | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. |
| Test Result: | PASS |
| | |

6.4.2. Test Instruments

| RF Test Room | | | | | | | |
|--------------------------|--------------|--------|---------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Aug. 12, 2017 | | | |
| RF cable (9kHz-40GHz) | тст | RE-06 | N/A | Aug. 12, 2017 | | | |
| Antenna Connector | ТСТ | RFC-01 | N/A | Aug. 12, 2017 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (d) |
|-------------------|---|
| Test Method: | KDB558074 |
| Limit: | In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). |
| Test Setup: | |
| | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. |
| Test Result: | PASS |
| | |

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6.5.2. Test Instruments

| RF Test Room | | | | | | | |
|--------------------------|--------------|--------|---------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Aug. 12, 2017 | | | |
| RF cable (9kHz-40GHz) | тст | RE-06 | N/A | Aug. 12, 2017 | | | |
| Antenna Connector | тст | RFC-01 | N/A | Aug. 12, 2017 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

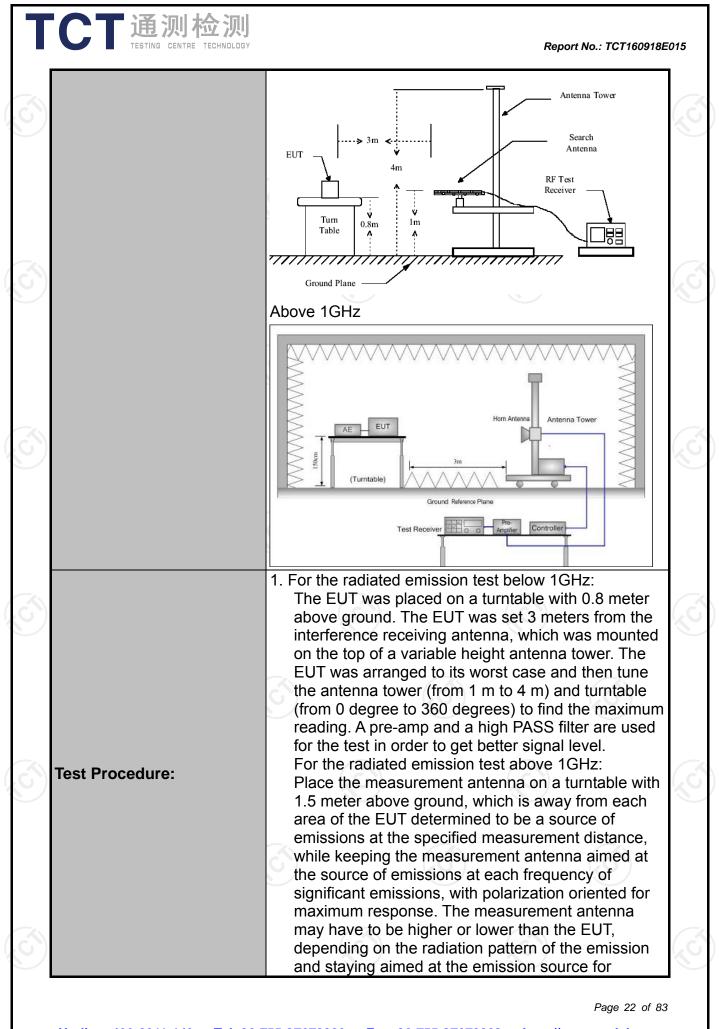
Tel: 86-755-27673339

Fax: 86-755-27673332

Hotline: 400-6611-140

Report No.: TCT160918E015 6.6. Radiated Spurious Emission Measurement 6.6.1. Test Specification FCC Part15 C Section 15,209 **Test Requirement: Test Method:** ANSI C63.10: 2013 9 kHz to 25 GHz Frequency Range: **Measurement Distance:** 3 m Antenna Polarization: Horizontal & Vertical **Operation mode:** Transmitting mode with modulation Frequency Detector RBW VBW Remark 9kHz- 150kHz Quasi-peak 200Hz 1kHz Quasi-peak Value 150kHz-Quasi-peak 9kHz 30kHz Quasi-peak Value **Receiver Setup:** 30MHz 30MHz-1GHz 100KHz Quasi-peak Value Quasi-peak 300KHz Peak Value Peak 1MHz 3MHz Above 1GHz Peak 1MHz 10Hz Average Value Field Strenath Measurement Frequency (microvolts/meter) Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 30 1.705-30 30 30-88 100 3 88-216 150 3 Limit: 216-960 200 3 500 Above 960 3 Measurement Field Strength Frequency Distance Detector (microvolts/meter) (meters) 500 3 Average Above 1GHz 5000 3 Peak For radiated emissions below 30MHz Distance = 3mComputer Pre - Amplifier Test setup: EUT Turn table 0.8m Receiver Ground Plane 30MHz to 1GHz

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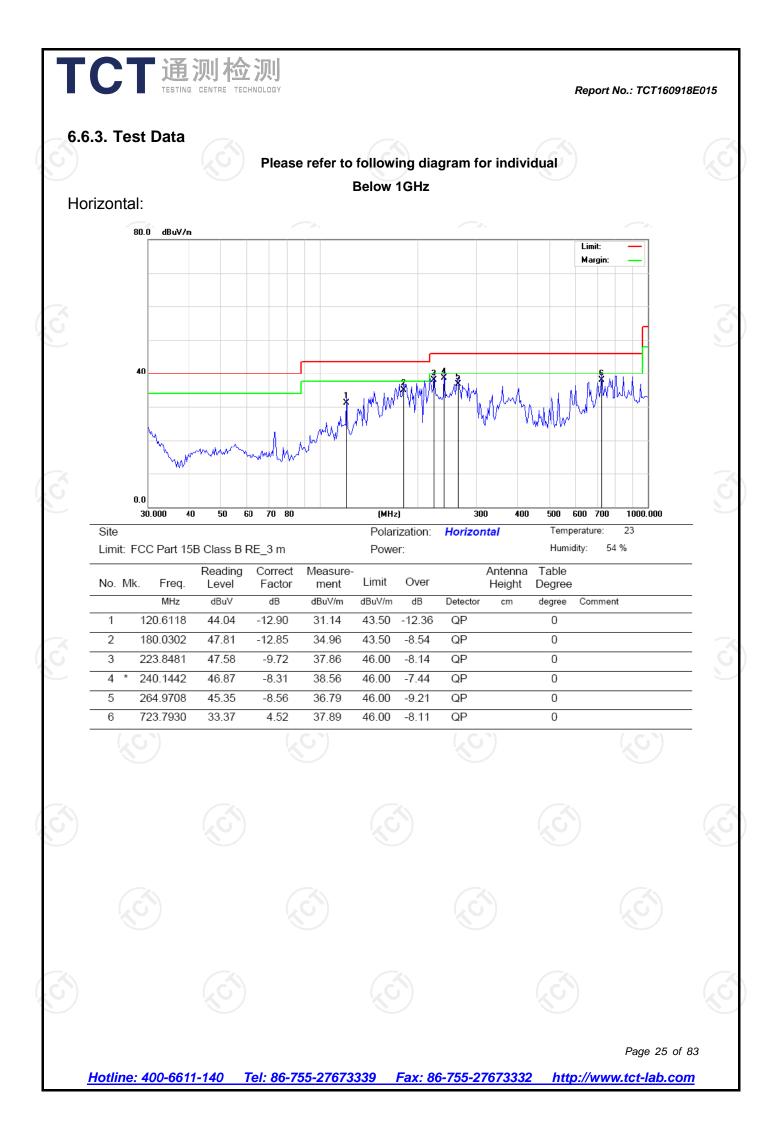


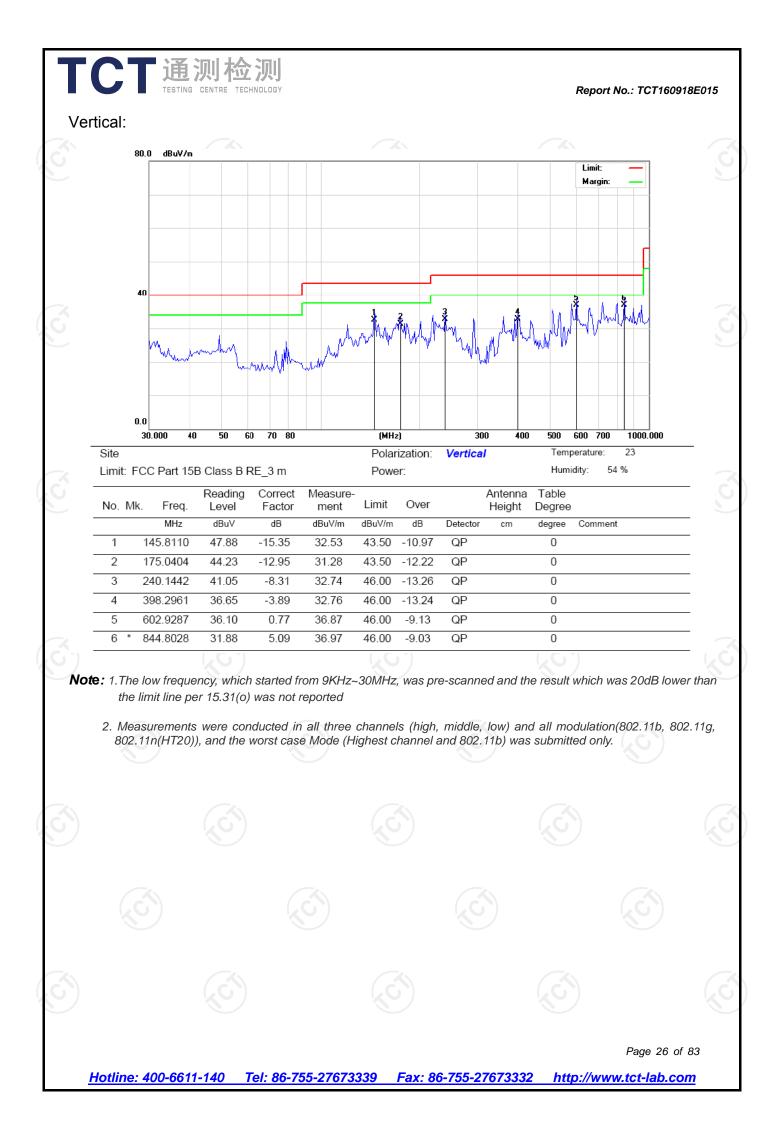
| receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, if the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto, Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW = 3MHz for f 1 GHz for peak measurement. For average measurement. VBW ≥ 10T, when duty cycle is no less than 98 percent. WEW ≥ 17T, when duty cycle is no and is transmitting at its maximum power control level for the tested mode of operation. Test results: PASS | T (| 河リ Jology | | | Repo | ort No.: TCT16091 | 8E015 |
|---|------------|---|--|---|--|--|-------|
| of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement. For average measurement. VBW = 10 Hz, when duty cycle is no less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. | 3 | mea max ante rest abo 3. Corre Rea | asurement a kimizes the enna elevat ricted to a r ve the grou ected Read ad Level - P | antenna elev emissions. T ion for maxin ange of heig nd or referen ing: Antenna reamp Facto | vation shall to The measure mum emission ghts of from nce ground a Factor + C or = Level | be that which ement ons shall be 1 m to 4 m plane. able Loss + | |
| max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. | Ś | of th lowe leve mea dete 5. Use (1) S e (2) S | ne EUT mea er than the el will be rep asurement v ector and re the followin Span shall v emission be Set RBW=1 | asured by th applicable lin oorted. Other will be repea ported. g spectrum vide enough ing measure 00 kHz for f | e peak dete mit, the peal rwise, the er ted using th analyzer set to fully capt ed; < 1 GHz; VI | ctor is 3 dB k emission mission e quasi-peak ttings: ture the 3W ≥RBW; | |
| | | r (3) S f For duty whe the tran pow | max hold; Set RBW = or peak me average me y cycle is no en duty cycle minimum tr smitter is o | 1 MHz, VBW asurement: easurement: b less than 9 e is less than ansmission n and is tran | V= 3MHz for VBW = 10 8 percent. V n 98 percen duration ove smitting at i | f 1 GHz Hz, when /BW \ge 1/T, t where T is er which the ts maximum | |
| | <u>s</u> | PASS | | | | | |
| | | | | | | | |
| | (S) | | | | | | |
| | | | | | | | |
| | S) | | | | | | |
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6.6.2. Test Instruments

| | Radiated Em | ission Test Sit | te (966) | |
|----------------------------|--|-----------------|-------------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| ESPI Test Receiver | ROHDE&SCHW ARZ | ESVD | 100008 | Aug. 11, 2017 |
| Spectrum Analyzer | ROHDE&SCHW ARZ | FSEM | 848597/001 | Aug. 11, 2017 |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Aug. 12, 2017 |
| Pre-amplifier | EM Electronics Corporation CO.,LTD | EM30265 | 07032613 | Aug. 11, 2017 |
| Pre-amplifier | HP | 8447D | 2727A05017 | Aug. 11, 2017 |
| Loop antenna | ZHINAN | ZN30900A | 12024 | Aug. 13, 2017 |
| Broadband Antenna | Schwarzbeck | VULB9163 | 340 | Aug. 13, 2017 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 631 | Aug. 13, 2017 |
| Horn Antenna | Schwarzbeck | BBHA 9170 373 | | Aug. 13, 2017 |
| Coax cable (9kHz-40GHz) | тст | RE-low-01 | N/А | Aug. 11, 2017 |
| Coax cable (9kHz-40GHz) | тст | RE-high-02 | N/A | Aug. 11, 2017 |
| Coax cable (9kHz-40GHz) | тст | RE-low-03 | N/A | Aug. 11, 2017 |
| Coax cable (9kHz-40GHz) | тст | RE-High-04 | N/A | Aug. 11, 2017 |
| Antenna Mast | CCS | CC-A-4M | N/A | Aug. 12, 2017 |
| EMI Test Software | Shurple Technology | EZ-EMC | N/A | N/A |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





| | Modu | lation Type: 80 | 2.110 | | |
|------------------|------------------------|----------------------------------|---------------------------------|------------------------|----------------------|
| | | channel: 2412 | | | |
| Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m) |
| Н | 44.56 | -4.20 | 40.36 | 74.00 | 54.00 |
| Н | 49.21 | -4.10 | 45.11 | 74.00 | 54.00 |
| Н | 51.89 | -3.94 | 47.95 | 74.00 | 54.00 |
| V | 44.79 | -4.20 | 40.59 | 74.00 | 54.00 |
| V | 53.26 | -4.10 | 49.16 | 74.00 | 54.00 |
| V | 54.16 | -3.94 | 50.22 | 74.00 | 54.00 |
| (G) | Modu | lation Type: 80 | 2.11b | (G) | |
| | High | channel: 2462 | MHz | | |
| Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m) |
| Н | 50.14 | -3.60 | 46.54 | 74.00 | 54.00 |
| Н | 48.52 | -3.50 | 45.02 | 74.00 | 54.00 |
| Н | 45.95 | -3.34 | 42.61 | 74.00 | 54.00 |
| V | 52.93 | -3.60 | 49.33 | 74.00 | 54.00 |
| V | 48.27 | -3.50 | 44.77 | 74.00 | 54.00 |
| V | 43.87 | -3.34 | 40.53 | 74.00 | 54.00 |
| 6 | | lation Type: 80 channel: 2412 | | 6 | |
| Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m) |
| Н | 42.23 | -4.20 | 38.03 | 74.00 | 54.00 |
| Н | 50.16 | -4.12 | 46.04 | 74.00 | 54.00 |
| Н | 54.61 | -3.94 | 50.67 | 74.00 | 54.00 |
| V | 45.82 | -4.20 | 41.62 | 74.00 | 54.00 |
| V | 50.73 | -4.12 | 46.61 | 74.00 | 54.00 |
| V | 52.61 | -3.94 | 48.67 | 74.00 | 54.00 |
| | | lation Type: 80 | | | |
| | High | channel: 2462 | | | |
| Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m) |
| Н | 50.74 | -3.60 | 47.14 | 74.00 | 54.00 |
| Н | 49.24 | -3.52 | 45.72 | 74.00 | 54.00 |
| Н | 47.61 | -3.34 | 44.27 | 74.00 | 54.00 |
| V | 50.68 | -3.60 | 47.08 | 74.00 | 54.00 |

Test Result of Radiated Spurious at Band edges Modulation Type: 802.11b

CT 通测检测 TESTING CENTRE TECHNOLOGY

Frequency (MHz)

Frequency (MHz)

> 2483.5 2487.09 2500 2483.5 2487.09 2500

Frequency (MHz)

Frequency (MHz)

> 2483.5 2487.59 2500 2483.5

2487.59

2500

V

V

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54.00

54.00

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-3.52

-3.34

44.17

44.95

74.00

74.00

47.69

48.29

| | 通测检 | | | | | |
|---|------------------|------------------------|--------------------------------|---------------------------------|------------------------|----------------------|
| | | | n Type: 802.11 | | | |
| | | LOW | channel: 2412 | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m) |
| 2310 | Н | 45.13 | -4.20 | 40.93 | 74.00 | 54.00 |
| 2388.01 | Н | 52.36 | -4.10 | 48.26 | 74.00 | 54.00 |
| 2390 | Н | 52.87 | -3.94 | 48.93 | 74.00 | 54.00 |
| 2310 | V | 47.63 | -4.20 | 43.43 | 74.00 | 54.00 |
| 2388.01 | V | 52.23 | -4.10 | 48.13 | 74.00 | 54.00 |
| 2390 | V | 53.26 | -3.94 | 49.32 | 74.00 | 54.00 |
| | | | n Type: 802.11 | | | |
| | | High | channel: 2462 | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m |
| 2483.5 | Н | 50.89 | -3.60 | 47.29 | 74.00 | 54.00 |
| 2392.55 | Н | 51.13 | -3.50 | 47.63 | 74.00 | 54.00 |
| 2500 | Н | 48.76 | -3.34 | 45.42 | 74.00 | 54.00 |
| 2483.5 | V | 53.21 | -3.60 | 49.61 | 74.00 | 54.00 |
| 2392.55 | V | 49.64 | -3.50 | 46.14 | 74.00 | 54.00 |
| 2500 | V | 47.83 | -3.34 | 44.49 | 74.00 | 54.00 |
| _ | | | channel: 2422 Correction | MHz Peak Final | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | Factor (dB/m) | Emission | Peak limit (dBµV/m) | AV limit (dBµV/m |
| 2310 | Н | 45.69 | -4.20 | 41.49 | 74.00 | 54.00 |
| 2354.01 | Н | 51.26 | -4.10 | 47.16 | 74.00 | 54.00 |
| 2390 | Н | 53.61 | -3.94 | 49.67 | 74.00 | 54.00 |
| 2310 | V | 48.69 | -4.20 | 44.49 | 74.00 | 54.00 |
| 2354.01 | V | 52.14 | -4.10 | 48.04 | 74.00 | 54.00 |
| 2390 | V | 54.98 | -3.94 | 51.04 | 74.00 | 54.00 |
| | | | n Type: 802.11 | | | |
| | | Low | channel: 2452 | | | |
| | Ant. Pol. H/V | Peak reading (dBµV) | Correction Factor (dB/m) | Peak Final Emission Level | Peak limit (dBµV/m) | AV limit (dBµV/m |
| Frequency (MHz) | | 53.11 | -3.60 | 49.51 | 74.00 | 54.00 |
| | Н | | -3.50 | 48.13 | 74.00 | 54.00 |
| (MHz) | H H | 51.63 | 0.00 | | | |
| (MHz) 2483.5 | | 51.63 47.25 | -3.34 | 43.91 | 74.00 | 54.00 |
| (MHz) 2483.5 2496.0 | Н | | | 43.91 49.59 | 74.00 74.00 | 54.00 54.00 |
| (MHz) 2483.5 2496.0 2500 | H H | 47.25 | -3.34 | | | |
| (MHz) 2483.5 2496.0 2500 2483.5 | H H V | 47.25 53.19 | -3.34 -3.60 | 49.59 | 74.00 | 54.00 |

Ś

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| | | | | Iodulation T | 1GHz ype: 802.11 | | | | (.e |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|----------------------------|------------------------|----|----------------|
| | | | L | Low channe | el: 2412 MHz | Ζ | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emissio Peak (dBµV/m) | on Level AV (dBµV/m) | Peak limit (dBµV/m) | | Margin (dB) |
| 4824 | Н | 50.63 | | 0.75 | 51.38 | | 74 | 54 | -2.62 |
| 7236 | CH | 41.52 | L'O | 9.87 | 51.39 | <u>,0</u> + | 74 | 54 | -2.61 |
| | Ĥ | | | | | | | | |
| 4824 | | 49.12 | | 0.75 | 49.87 | | 74 | 54 | -4.13 |
| 7236 | V | 41.69 | | 9.87 | 51.56 | | 74 | 54 | -2.44 |
| (J | V | $(-\Theta)$ | | (, (|) | | (\mathbf{e}) | | (|
| | | | • | 9 | \mathcal{I} | | | | 9 |

| | | | | М | iddle chanr | nel: 2437MF | Ηz | | | |
|--------------|-------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequ (MH | ency Iz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 487 | 74 | ЧΗ | 48.92 | K S | 0.97 | 49.89 | 24 | 74 | 54 | -4.11 |
| 731 | 11 | Н | 41.36 | | 9.83 | 51.19 | | 74 | 54 | -2.81 |
| | - | Н | | | | | | | | |
| 487 | 74 | V | 49.21 | | 0.97 | 50.18 | | 74 | 54 | -3.82 |
| 731 | 11 | V | 40.64 | | 9.83 | 50.47 | | 74 | 54 | -3.53 |
| | - | V | | | | | | | | ' |

| | | | H | ligh channe | el: 2462 MH | z | | | |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissio Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4924 | Н | 49.26 | | 1.18 | 50.44 | | 74 | 54 | -3.56 |
| 7386 | Н | 39.27 | | 10.07 | 49.34 | | 74 | 54 | -4.66 |
| | Н | | | | | | | | |
| | | | | ((| | | | | (6 |
| 4924 | V | 49.28 | | 1.18 | 50.46 | | 74 | 54 | -3.54 |
| 7386 | V | 40.66 | | 10.07 | 50.73 | | 74 | 54 | -3.27 |
| | V | | | | | | | | |

Note:

5.

TCT通测检测 TCT通测检测

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

| | | | М | odulation T | ype: 802.11 | lg | | | | | | |
|--------------------|--------------------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|--|--|--|
| | Low channel: 2412 MHz | | | | | | | | | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) | | | |
| 4824 | Н | 49.12 | | 0.75 | 49.87 | | 74 | 54 | -4.13 | | | |
| 7236 | Н | 40.52 | | 9.87 | 50.39 | | 74 | 54 | -3.61 | | | |
| | H | | | | | | | | | | | |
| (| $\mathcal{L}(\mathcal{L}^{*})$ | | 60 | | () | \mathcal{O} | | 60 | | | | |
| 4824 | V | 47.62 | | 0.75 | 48.37 | | 74 | 54 | -5.63 | | | |
| 7236 | V | 40.61 | | 9.87 | 50.48 | | 74 | 54 | -3.52 | | | |
| | V | | | | | | | | | | | |
| 74 | | | | | X | | | | | | | |

| | | (G) | М | iddle chanr | nel: 2437MH | lz | (G) | | |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4874 | Н | 47.96 | | 0.97 | 48.93 | | 74 | 54 | -5.07 |
| 7311 | н | 40.39 | | 9.83 | 50.22 | | 74 | 54 | -3.78 |
| | СH | | KO. | | | | | <u>k</u> o | / |
| | | | | | | | | | |
| 4874 | V | 47.29 | | 0.97 | 48.26 | | 74 | 54 | -5.74 |
| 7311 | V | 40.62 | | 9.83 | 50.45 | | 74 | 54 | -3.55 |
| K | V | | | | × | | | | |
| | | | • | | | | | • | |

| | | | F | ligh channe | el: 2462 MH | Z | | | 6 |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissio Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4924 | H | 47.23 | | 1.18 | 48.41 | | 74 | 54 | -5.59 |
| 7386 | H | 39.56 | | 10.07 | 49.63 | + | 74 | 54 | -4.37 |
| | H | | | | | | | | |
| 4924 | V | 46.27 | | 1.18 | 47.45 | | 74 | 54 | -6.55 |
| 7386 | V | 40.26 | | 10.07 | 50.33 | | 74 | 54 | -3.67 |
| 9./ | V | | | X | 2/ | | | | X |

Note:

TCT通测检测 TESTING CENTRE TECHNOLOGY

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test 4. frequency is 25GHz.

5. Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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| | | | Modu | lation Type | : 802.11n (ł | HT20) | | | |
|--------------------|------------------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| | | | Ĺ | ow channe. | I: 2412 MH | Z | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4824 | Н | 48.97 | | 0.75 | 49.72 | | 74 | 54 | -4.28 |
| 7236 | Н | 40.21 | | 9.87 | 50.08 | | 74 | 54 | -3.92 |
| | Н | | | | | | | | |
| | $\langle \mathbf{G} \rangle$ | | | | () | \mathcal{O} | | | |
| 4824 | V | 47.58 | | 0.75 | 48.33 | | 74 | 54 | -5.67 |
| 7236 | V | 40.33 | | 9.87 | 50.2 | | 74 | 54 | -3.8 |
| | V | | | | | | | | |
| | | | | | 7. | | <u></u> | | _ |

| () | | (.G) | Μ | iddle chann | el: 2437MF | Ιz | (G) | | |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4874 | Н | 47.64 | | 0.97 | 48.61 | | 74 | 54 | -5.39 |
| 7311 | н | 41.26 | | 9.83 | 51.09 | | 74 | 54 | -2.91 |
| / | Ч | | <u>k</u> | | | | | | |
| | | | | | | | | | |
| 4874 | V | 47.28 | | 0.97 | 48.25 | | 74 | 54 | -5.75 |
| 7311 | V | 40.16 | | 9.83 | 49.99 | | 74 | 54 | -4.01 |
| | V | | | (| | | | | (|
| 5) | | XU) | | |) | | 10 | | |

| | | | F | ligh channe | el: 2462 MH | Z | | | l' |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4924 | H | 48.29 | <u></u> | 1.18 | 49.47 | | 74 | 54 | -4.53 |
| 7386 | Н | 40.27 | <u> </u> | 10.07 | 50.34 | + | 74 | 54 | -3.66 |
| | H | | | | | | | | |
| 4924 | V | 46.98 | | 1.18 | 48.16 | | 74 | 54 | -5.84 |
| 7386 | V | 40.59 | | 10.07 | 50.66 | | 74 | 54 | -3.34 |
| | V | | | | 2/ | | | | X |

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

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3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test 4. frequency is 25GHz.

5. Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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| | | | Modu | lation Type | : 802.11n(F | IT40) | | | |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| | | | Ĺ | ow channe | I: 2422 MH | Z | | | |
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4844 | Н | 48.24 | | 0.75 | 48.99 | | 74 | 54 | -5.01 |
| 7266 | Н | 38.62 | | 9.87 | 48.49 | | 74 | 54 | -5.51 |
| | Н | | | | | | | | |
| | \mathcal{O} | | |) | () | (\mathbf{C}) | | (\mathcal{G}) | |
| 4844 | V | 48.94 | | 0.75 | 49.69 | | 74 | 54 | -4.31 |
| 7266 | V | 38.28 | | 9.87 | 48.15 | | 74 | 54 | -5.85 |
| | V | | | | | | | | |
| 7. | | | | 6 | 2 | | | | _ |

| () | | (.G) | Μ | iddle chann | el: 2437MF | Ιz | (G) | | |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4874 | Н | 48.21 | | 0.97 | 49.18 | | 74 | 54 | -4.82 |
| 7311 | Н | 38.94 | | 9.83 | 48.77 | | 74 | 54 | -5.23 |
| | С H | | | | | 24 | | 2 | |
| | | | | | | | | | |
| 4874 | V | 47.26 | | 0.97 | 48.23 | | 74 | 54 | -5.77 |
| 7311 | V | 39.56 | | 9.83 | 49.39 | | 74 | 54 | -4.61 |
| N | V | | | (| | | - | | (|
| 5) | | <u>(</u> 0) | - | X |) | | | | |

| | | | F | ligh channe | el: 2452 MH | Z | | | 6 |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|-----------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emissic Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 4904 | H | 47.69 | <u></u> | 1.18 | 48.87 | | 74 | 54 | -5.13 |
| 7356 | Н | 39.27 | | 10.07 | 49.34 | + | 74 | 54 | -4.66 |
| | H | | | | | | | | |
| 4904 | V | 48.16 | | 1.18 | 49.34 | | 74 | 54 | -4.66 |
| 7356 | V | 38.59 | | 10.07 | 48.66 | | 74 | 54 | -5.34 |
| · / | V | | | | 2/ | | | | 🔨 |

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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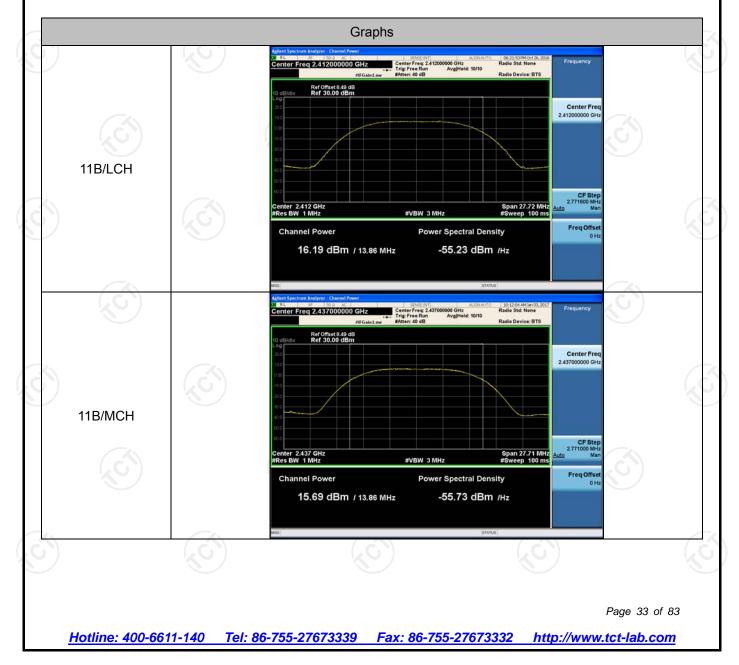


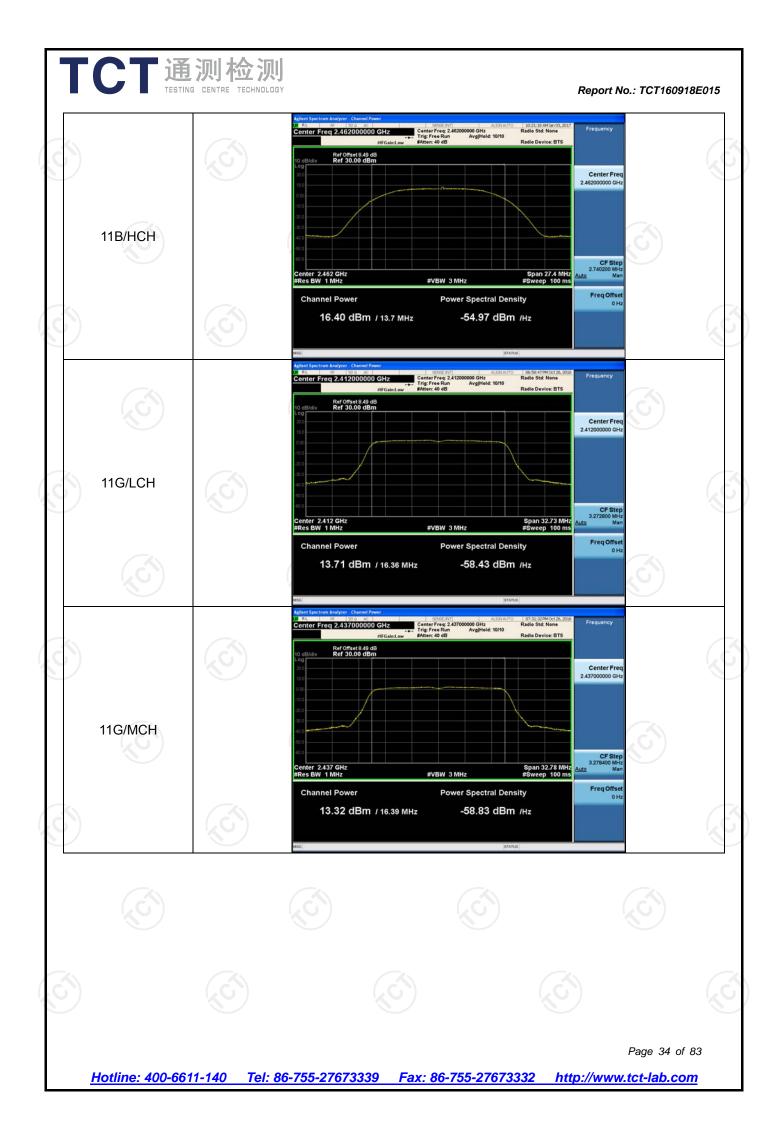
Appendix A: Test Result of Conducted Test

Conducted Average Output Power

| Mode | Channel | Meas.Level [dBm] | Verdict |
|-----------|---------|------------------|---------|
| 11B | LCH | 16.19 | PASS |
| 11B | MCH | 15.69 | PASS |
| 11B | НСН | 16.4 | PASS |
| 11G | LCH | 13.71 | PASS |
| 11G | MCH | 13.32 | PASS |
| 11G | HCH | 12.95 | PASS |
| 11N20SISO | LCH | 13.83 | PASS |
| 11N20SISO | MCH | 14.11 | PASS |
| 11N20SISO | НСН | 13.67 | PASS |
| 11N40SISO | LCH | 14.23 | PASS |
| 11N40SISO | MCH | 14.13 | PASS |
| 11N40SISO | HCH | 14.03 | PASS |

Test Graph

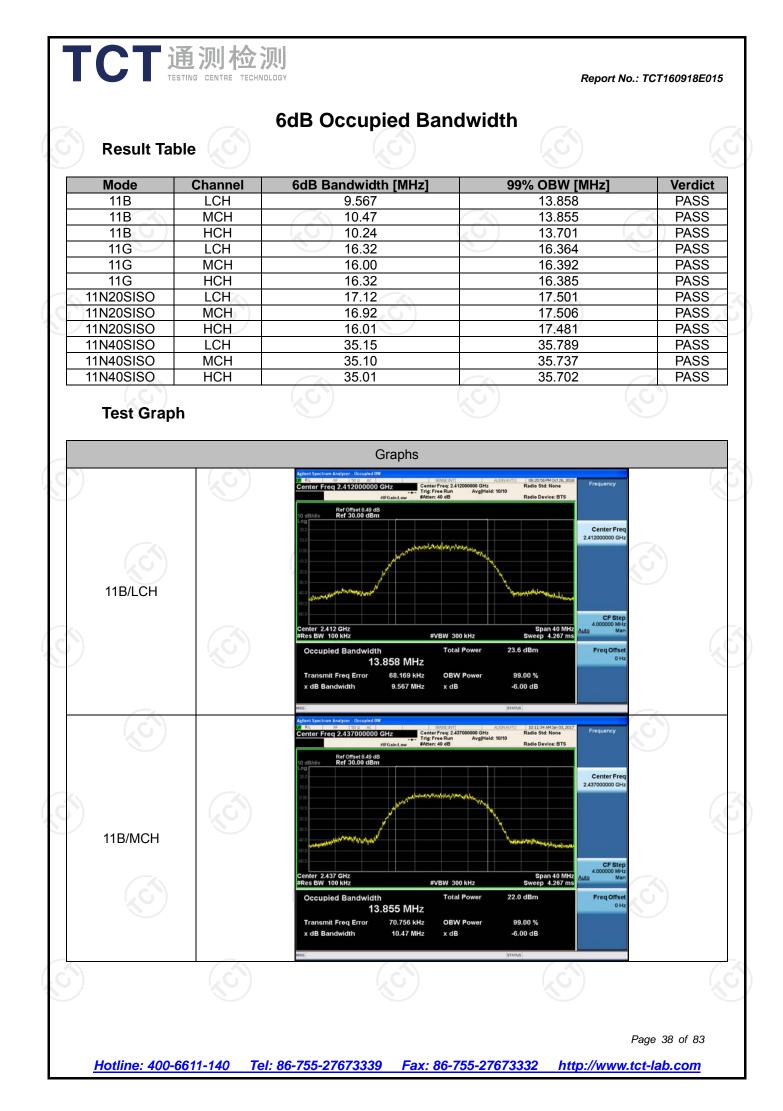


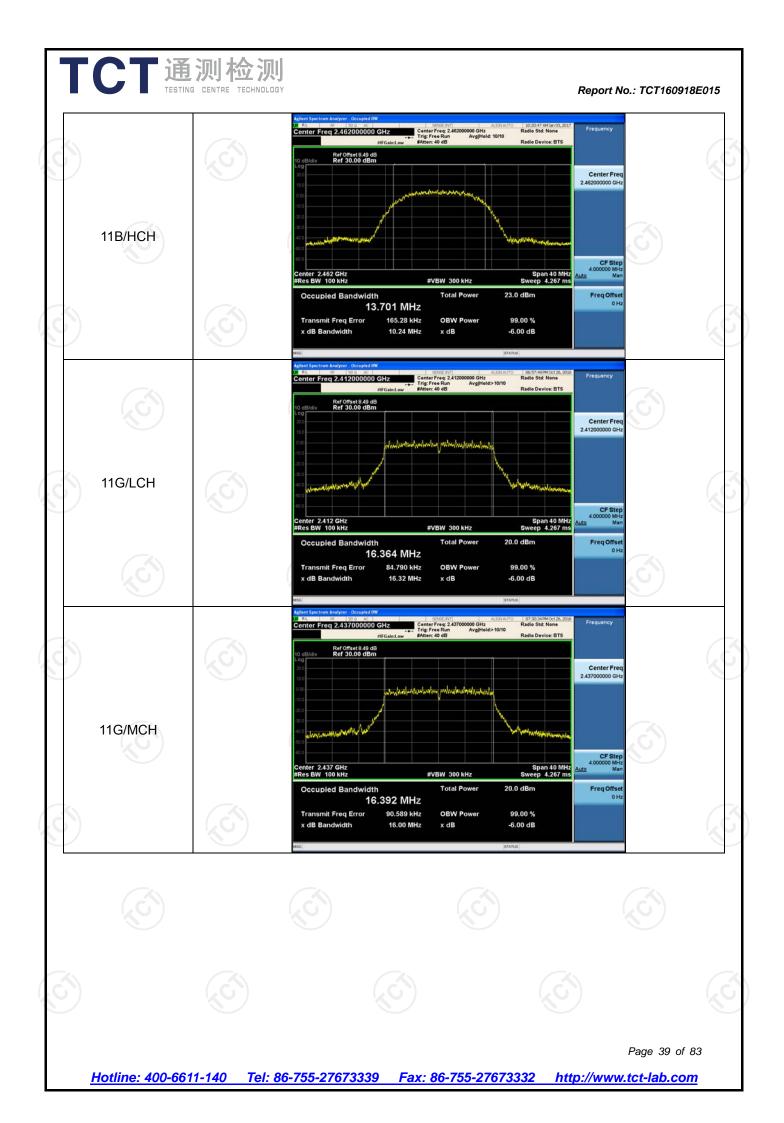




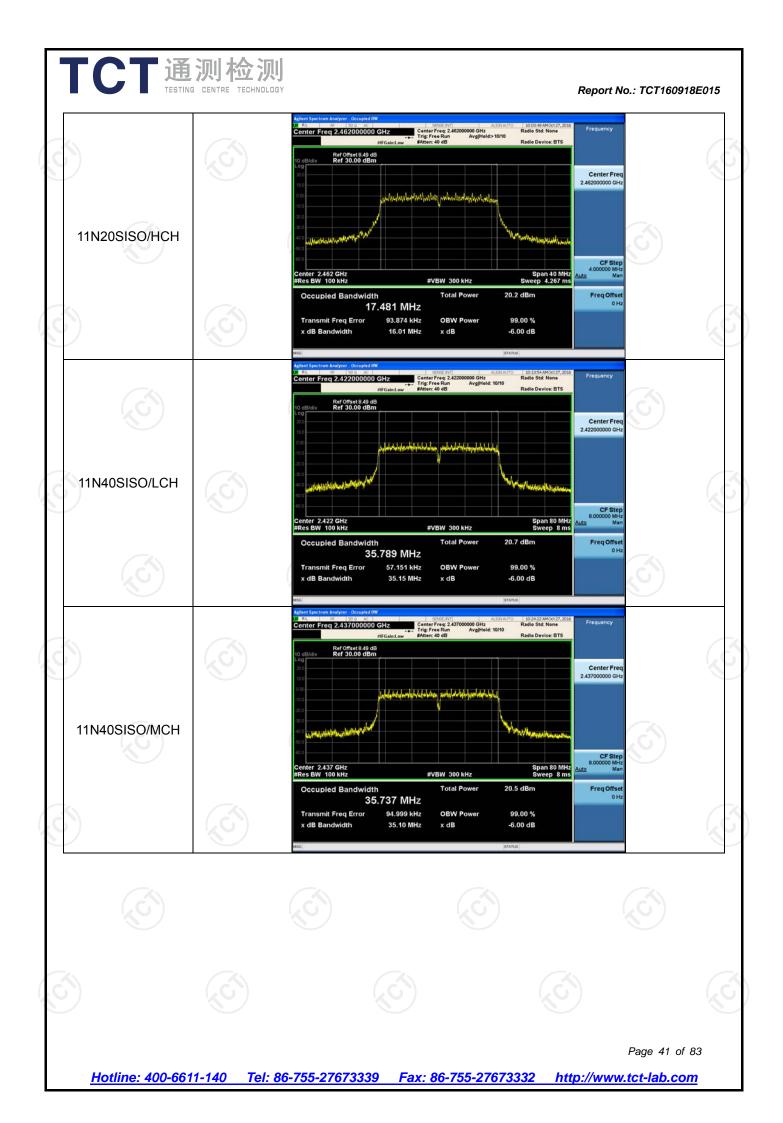


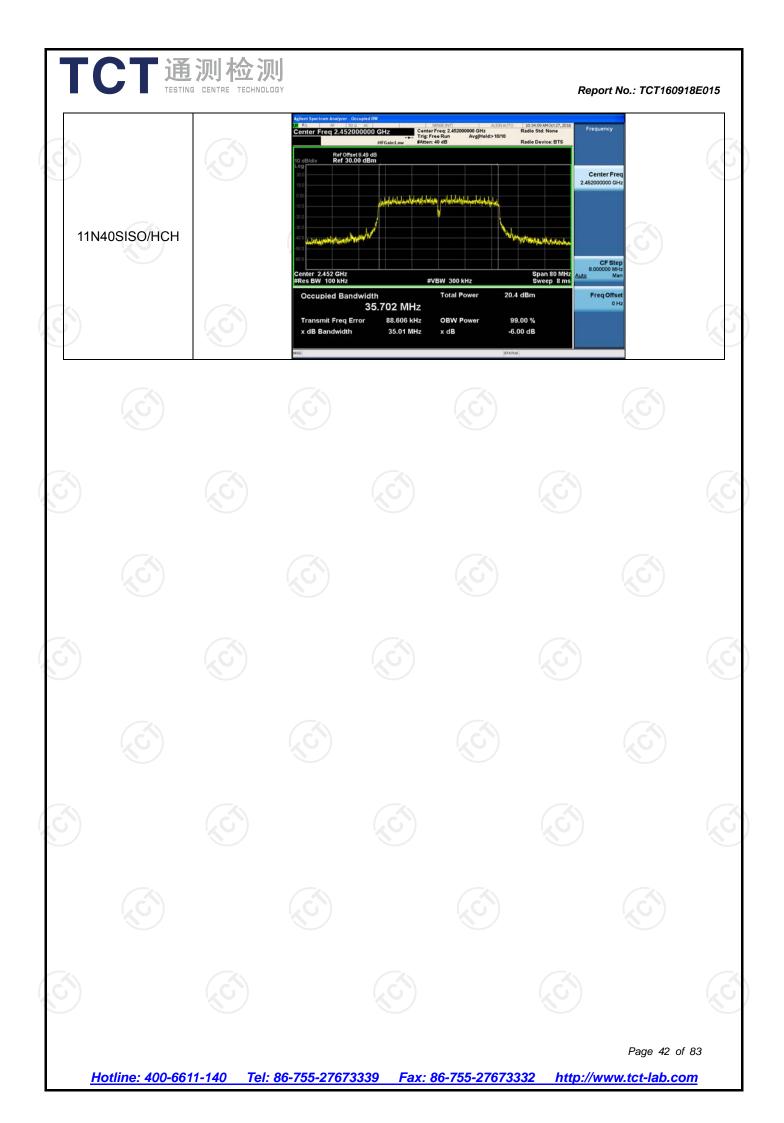












Band-edge for RF Conducted Emissions

Result Table

TCT 通测检测 TESTING CENTRE TECHNOLOGY

| Mode | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------------|-----------------------------|-------------|---------|
| 11B | LCH | 6.135 | -41.273 | -23.87 | PASS |
| 11B | HCH | 7.371 | -41.196 | -22.63 | PASS |
| 11G | LCH | 3.401 | -41.000 | -26.6 | PASS |
| 11G | HCH | 2.694 | -41.026 | -27.31 | PASS |
| 11N20SISO | LCH | 3.670 | -41.569 | -26.33 | PASS |
| 11N20SISO | HCH | 3.295 | -41.269 | -26.71 | PASS |
| 11N40SISO | LCH | 1.121 | -37.141 | -28.88 | PASS |
| 11N40SISO | HCH | 0.907 | -39.324 | -29.09 | PASS |



