



FCC RADIO TEST REPORT

FCC ID: 2BKRJ-SH501

Sample: wireless battery security camera

Trade Mark: N/A

Main Model: SH501

Additional Model: SH502, SH503, SH505, SH506, SH508,

SH509, SH60, SH61, SH62, SH65, SH66,

Report No.: UNIA24082714ER-61

SH68, SH69, SH801, SH802, SH804,

SH805, SH806, SH808, SH809

Report No.: UNIA24082714ER-61

Prepared for

SOLIOM SMART TECHNOLOGY LIMITED

SHOP 185 G/F, HANG WAI IND. CENTRE, NO.6 KIN TAI ST., TUEN MUN, N.T HONGKONG

Prepared by

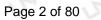
Shenzhen United Testing Technology Co., Ltd.

D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

广东省深圳市龙华区大浪街道陶元社区凯诚高新园107(D101/D401) (P.C.518109)

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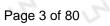


深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd.

TEST RESULT CERTIFICATION

| Applicant: | SOLIOM SMART TECHNOLOGY LIMITED |
|---|---|
| Address: | SHOP 185 G/F,HANG WAI IND. CENTRE,NO.6 KIN TAI ST., TUEN MUN, N.T HONGKONG |
| Manufacturer: | SOLIOM SMART TECHNOLOGY LIMITED |
| Address: | SHOP 185 G/F,HANG WAI IND. CENTRE,NO.6 KIN TAI ST., TUEN MUN, N.T HONGKONG |
| Product description | |
| Product: | wireless battery security camera |
| Trade Mark: | N/A |
| Model Name: | SH501, SH502, SH503, SH505, SH506, SH508, SH509, SH60, SH61, SH62, SH65, SH66, SH68, SH69, SH801, SH802, SH804, SH805, SH806, SH808, SH809 |
| Test Methods: | FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10: 2013 |
| applicable only to the tested sample. This report shall not be reproduced | nt under test (EUT) is in compliance with the FCC requirements. And it is e identified in the report. except in full, without the written approval, this document may be altered sting Technology Co., Ltd., personnel only, and shall be noted in the |
| Date (s) of performance of tests | |
| Date of Issue | Feb. 14, 2025 |
| Test Result | Jason Ye |
| | Jason Ye |
| Reviewed by: | Kelly Chang |
| 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | Kelly Cheng |
| Approved by: | |

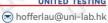
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| Table of Contents | Page |
|--|---------------------------------|
| 1 TEST SUMMARY | 5 |
| 1.1 TEST PROCEDURES AND RESULTS | 0 0 |
| 1.2 TEST PROCEDURES AND RESULTS 1.2 TEST FACILITY | J ^M J ^M 6 |
| 1.2 TEST FACILITY 1.3 MEASUREMENT UNCERTAINTY | 7 |
| 1.4 ENVIRONMENTAL CONDITIONS | 7 |
| | L M M |
| 2 GENERAL INFORMATION | 8 |
| 2.1 GENERAL DESCRIPTION OF EUT 2.2 CARRIER FREQUENCY OF CHANNELS | 8 |
| 2.3 TEST MODE | 9 |
| 2.4 DESCRIPTION OF THE TEST MODES | 9 |
| 2.5 TEST SETUP | 10 |
| 2.6 DESCRIPTION TEST PERIPHERAL AND EUT PERIPH | |
| 2.7 MEASUREMENT INSTRUMENTS LIST | 11 |
| 3 CONDUCTED EMISSION | 12 |
| 3.1 TEST LIMIT | 12 |
| 3.2 TEST SETUP | 12 |
| 3.3 TEST PROCEDURE | 13 |
| 3.4 TEST RESULT | 13 |
| 4 RADIATED EMISSION | 16 |
| 4.1 TEST LIMIT | 16 |
| 4.2 TEST SETUP | 17 |
| 4.3 TEST PROCEDURE | 18 |
| 4.4 TEST RESULT | 18 |
| 5 6dB &99% OCCUPIED BANDWIDTH | 36 |
| 5.1 TEST LIMIT | 36 |
| 5.2 TEST PROCEDURE | 36 |
| 5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION | ON) 36 |
| 5.4 MEASUREMENT EQUIPMENT USED | 36 |
| 5.5 TEST RESULT | 36 |
| 6 POWER SPECTRAL DENSITY | 49 |
| 6.1 TEST LIMIT | 49 |
| 6.2 TEST PROCEDURE | 49 |
| 6.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION | ON) 49 |
| 6.4 EQUIPMENT USED | 49 |
| 6.5 TEST RESULT | 49 |

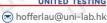








| Table of Contents | Page |
|--|---------|
| | |
| 7 AVERAGE OUTPUT POWER | 56 |
| 7.1 TEST LIMIT | 56 |
| 7.2 TEST PROCEDURE | 56 |
| 7.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | DN) 56 |
| 7.4 EQUIPMENT USED | 56 |
| 7.5 TEST RESULT | 57 |
| 8 OUT OF BAND EMISSIONS | 65 |
| 8.1 TEST LIMIT | 65 |
| 8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | ON) 65 |
| 8.3 TEST PROCEDURE | 65 |
| 8.4 MEASUREMENT EQUIPMENT USED | 65 |
| 8.5 TEST RESULT | 65 |
| 9 ANTENNA REQUIREMENT | 78 |
| 40 PHOTO OF TEOT | D 15 30 |









1.1 TEST PROCEDURES AND RESULTS

| Item | FCC Rules Description of test | | Result | |
|------|-------------------------------|-----------------------------|--------|--|
| 1,3 | FCC Part 15.207 | Conducted Emission | Pass | |
| 2 | FCC Part 15.209(a) | Radiated Emission | Pass | |
| 3 | FCC Part 15.247(a)(2) | 6dB&99%Occupied Bandwidth | Pass | |
| 4 | FCC Part 15.247(e) | Power Spectral Density | Pass | |
| 5 | FCC Part 15.247(b) | Average Output Power | Pass | |
| 6 | FCC Part 15.247(d) | Out Of Band Emissions | Pass | |
| 7 | FCC Part 15.247(d) | Conducted Spurious Emission | Pass | |
| 8 | FCC Part 15.203 | Antenna Requirement | Pass | |

Note:



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[&]quot;N/A" denotes test is not applicable in this Test Report.



Page 6 of 80 Report No.: UNIA24082714ER-61

Shenzhen United Testing Technology Co., Ltd. Test Firm

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The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

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

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.







1.3 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 %.

A. Conducted Measurement:

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|-----------|--------|-----------------------------|---------|
| A LINITED | ANGI | 9kHz ~ 150kHz | 2.96 |
| UNI ANSI | | 150kHz ~ 30MHz | 2.44 |

B. Radiated Measurement:

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|-----------|--------|-----------------------------|---------|
| 17. | · Hi | 9kHz ~ 30MHz | 2.50 |
| UNI | ANSI | 30MHz ~ 1000MHz | 4.80 |
| 2 2 | 121 | 1000MHz ~ 18000MHz | 4.13 |

C. RF Conducted Method:

| Item | Measurement Uncertainty |
|--|----------------------------|
| Uncertainty of total RF power, conducted | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF power density, conducted | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of spurious emissions, conducted | U _c = ±2 % |
| Uncertainty of Occupied Channel Bandwidth | U _c = ±2 % |

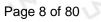
1.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

| | NORMAL CONDITIONS | EXTREME CONDITIONS | | |
|---|-------------------|--------------------|--|--|
| Temperature range (℃) | 15 - 35 | -20 - 50 | | |
| Relative humidty range | 20 % - 75 % | 20 % - 75 % | | |
| Pressure range (kPa) | 86 - 106 | 86 - 106 | | |
| Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer | | | | |









2.1 GENERAL DESCRIPTION OF EUT

| Product: | wireless battery security camera | | | |
|---------------------------------|---|--|--|--|
| Trade Mark: | N/A | | | |
| Main Model: | SH501 | | | |
| Additional Model: | SH502, SH503, SH505, SH506, SH508, SH509, SH60, SH61, SH62, SH65, SH66, SH68, SH69, SH801, SH802, SH804, SH805, SH806, SH808, SH809 | | | |
| Model Difference: | All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: SH501. | | | |
| FCC ID: | 2BKRJ-SH501 | | | |
| Operation Frequency: | 802.11b/g/n20: 2412~2462MHz | | | |
| Number of Channels: | 802.11b/g/n20: 11CH | | | |
| Average Conducted Output Power: | 15.90 dBm | | | |
| Modulation Type: | CCK, OFDM, DBPSK, DAPSK | | | |
| Antenna Type: | FPC Antenna | | | |
| Antenna Gain: | 2.55dBi | | | |
| Battery: | DC 3.6V, 5200mAh | | | |
| Adapter: | N/A | | | |
| Power Source: | DC 5V by adapter or DC 3.6V by battery | | | |





2.2 CARRIER FREQUENCY OF CHANNELS

| | Channel List for 802.11b/g/n(HT20) | | | | | | |
|---|------------------------------------|----|------|------|------|-----|------|
| Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) | | | | | | | |
| 01 | 2412 | 04 | 2427 | 07 | 2442 | 10 | 2457 |
| 02 | 2417 | 05 | 2432 | - 08 | 2447 | 11 | 2462 |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | , U | 2 |

2.3 TEST MODE

The EUT was programmed to be in continuously transmitting mode

| | Channel List for 802.11b/g/n((HT20 |)) | |
|---|------------------------------------|------|--|
| Test Channel EUT Channel Test Frequency (MHz) | | | |
| Low | CH01 | 2412 | |
| Middle | CH06 | 2437 | |
| High | CH11 | 2462 | |

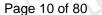
2.4 DESCRIPTION OF THE TEST MODES

During the measurement the environmental conditions were within the listed ranges:

| | Normal Voltage | DC 3.6V |
|---------|--------------------|----------|
| Voltage | High Voltage | DC 3.96V |
| | Low Voltage | DC 3.24V |
| | Normal Temperature | 24°C |
| Other | Relative Humidity | 55 % |
| | Air Pressure | 989 hPa |

Note: All modes were test at Normal Voltage, High Voltage, and Low Voltage, only the worst results of Normal Voltage was reported in the test report.



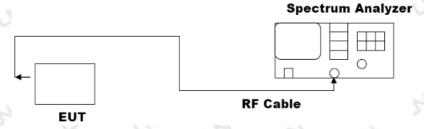




Operation of EUT during Conducted and Radiation testing:



Operation of EUT during RF Conducted testing:



2.6 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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 | Model/Type No. | Cable Length(m) | Note | |
|------|----------------------------------|----------------|-----------------|------|--|
| N | wireless battery security camera | SH501 | 17 J | EUT | |
| 2 | Adapter | " (E) " | H. F | AE | |

- 1. The support equipment was authorized by Declaration of Confirmation.
- 2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

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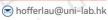
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2.7 MEASUREMENT INSTRUMENTS LIST

| Item | Equipment | Manufacturer | Model No. | Serial No. | Calibrated unti | |
|------|--|----------------|-------------------|---------------|-----------------|--|
| | D The | Conduction Emi | ssions Measuremer | nt | | |
| 1 | Conducted Emission Test Software | EZ-EMC | Ver.CCS-3A1-CE | N/A | N/A | |
| 2 | AMN | Schwarzbeck | NNLK8121 | 8121370 | 2025.06.11 | |
| 3 | AAN | TESEQ | T8-Cat6 | 38888 | 2025.06.11 | |
| 4 | Pulse Limiter | CYBRTEK | EM5010 | E115010056 | 2025.06.11 | |
| 5 | EMI Test Receiver | Rohde&Schwarz | ESCI | 101210 | 2025.06.11 | |
| S | 17, 1 | Radiated Emis | sions Measurement | 12 12 | 12, | |
| 1 | Radiated Emission Test Software | EZ-EMC | Ver.CCS-03A1 | N/A | N/A | |
| _2 | Horn Antenna | Sunol | DRH-118 | A101415 | 2025.07.14 | |
| 3 | Broadband Hybrid Antenna | Sunol | JB1 | A090215 | 2025.07.28 | |
| 4 | PREAMP | HP | 8449B | 3008A00160 | 2025.06.11 | |
| 5 | PREAMP | HP _ | 8447D | 2944A07999 | 2025.06.11 | |
| 6 | EMI TEST RECEIVER | Rohde&Schwarz | ESR3 | 101891 | 2025.06.11 | |
| 7 | VECTOR Signal Generator | Rohde&Schwarz | SMU200A | 101521 | 2025.06.11 | |
| 8 | Signal Generator | Agilent | E4421B | MY4335105 | 2025.06.11 | |
| 9 | MXA Signal Analyzer | Agilent | N9020A | MY50510140 | 2025.06.11 | |
| 10 | MXA Signal Analyzer | Keysight | N9020A | MY51110104 | 2025.06.11 | |
| 11 | RF Power sensor | DARE | RPR3006W | 15I00041SNO88 | 2025.06.11 | |
| 12 | RF Power sensor | DARE | RPR3006W | 15I00041SNO89 | 2025.06.11 | |
| 13 | RF power divider | Anritsu | K241B | 992289 | 2025.06.11 | |
| 14 | Wideband radio communication tester | Rohde&Schwarz | CMW500 | 154987 | 2025.06.11 | |
| 15 | Active Loop Antenna | Com-Power | AL-130R | 10160009 | 2025.06.11 | |
| 16 | Broadband Hybrid Antennas | Schwarzbeck | VULB9163 | VULB9163#958 | 2025.09.22 | |
| 17 | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1680 | 2025.07.14 | |
| 18 | Horn Antenna | A-INFOMW | LB-180400-KF | J211060660 | 2025.07.14 | |
| 19 | Microwave Broadband Preamplifier | Schwarzbeck | BBV 9721 | 100472 | 2025.09.22 | |
| 20 | Signal Generator | Agilent | N5183A | MY47420153 | 2025.09.22 | |
| 21 | Spctrum Analyzer | Rohde&Schwarz | FSP 40 | 100501 | 2025.09.22 | |
| 22 | Power Meter | KEYSIGHT | N1911A | MY50520168 | 2025.09.22 | |
| 23 | Frequency Meter | VICTOR | VC2000 | 997406086 | 2025.09.22 | |
| 24 | DC Power Source | HYELEC | HY5020E | 055161818 | 2025.09.22 | |







3 CONDUCTED EMISSION

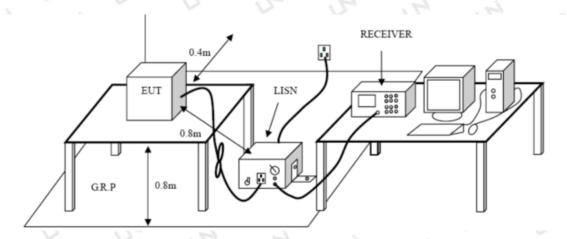
3.1 TEST LIMIT

For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

| V 12 | | , Land | | - | | | | |
|---|------|--------------------------------|---------|--------|--|--|--|--|
| | | Maximum RF Line Voltage (dBμV) | | | | | | |
| Frequency (MHz) | CLAS | SS A | CLASS B | | | | | |
| (************************************** | Q.P. | Ave. | Q.P. | Ave. | | | | |
| 0.15~0.50 | 79 | 66 | 66~56* | 56~46* | | | | |
| 0.50~5.00 | 73 | 60 | 56 | 46 | | | | |
| 5.00~30.0 | 73 | 60 | 60 | 50 | | | | |

Decreasing linearly with the logarithm of the frequency. For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 TEST SETUP







3.3 TEST PROCEDURE

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10: 2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10: 2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10: 2013.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hzpower through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

3.4 TEST RESULT

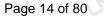
PASS

Remark:

- 1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
- All modes were test at Low, Middle, and High channel, only the worst result of 802.11b Low Channel was reported.

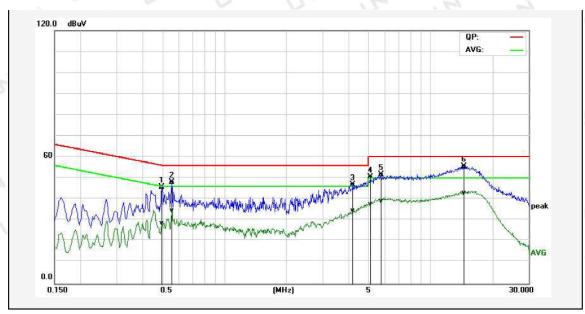
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| Temperature: | 26°C | Relative Humidity: | 60% |
|---------------|----------------------|--------------------|---------|
| Test Date: | Nov. 07, 2024 | Pressure: | 1010hPa |
| Test Voltage: | AC 120V, 60Hz | Phase: | Line |
| Test Mode: | Transmitting mode of | 802.11b 2412MHz | 7 12 14 |



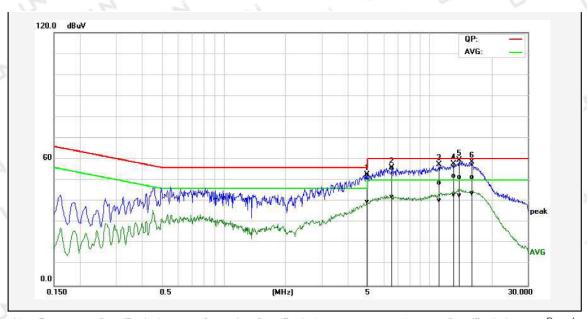
| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|-----|-----------|-------------------|-----------------|-------------------|---------------------|----------------|--------------------|------------------|---------------------|-------------------|--------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1P | 0.4980 | 35.76 | 18.57 | 10.08 | 45.84 | 28.65 | 56.03 | 46.03 | -10.19 | -17.38 | Pass |
| 2P | 0.5580 | 38.04 | 24.65 | 10.08 | 48.12 | 34.73 | 56.00 | 46.00 | -7.88 | -11.27 | Pass |
| 3P | 4.2140 | 36.63 | 24.16 | 10.40 | 47.03 | 34.56 | 56.00 | 46.00 | -8.97 | -11.44 | Pass |
| 4P | 5.1300 | 39.97 | 27.21 | 10.46 | 50.43 | 37.67 | 60.00 | 50.00 | -9.57 | -12.33 | Pass |
| 5P | 5.7700 | 41.23 | 28.77 | 10.50 | 51.73 | 39.27 | 60.00 | 50.00 | -8.27 | -10.73 | Pass |
| 6* | 14.5940 | 45.00 | 32.45 | 10.70 | 55.70 | 43.15 | 60.00 | 50.00 | -4.30 | -6.85 | Pass |

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.





| Temperature: | 26°C | Relative Humidity: | 60% |
|---------------|--------------------------|--------------------|---------|
| Test Date: | Nov. 07, 2024 | Pressure: | 1010hPa |
| Test Voltage: | AC 120V, 60Hz | Phase: | Neutral |
| Test Mode: | Transmitting mode of 802 | 2.11b 2412MHz | , |



| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|-----|-----------|----------------------|-----------------|----------------------|---------------------|-------------------|--------------------|------------------|---------------------|----------------|--------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1* | 4.9620 | 42.10 | 29.19 | 10.47 | 52.57 | 39.66 | 56.00 | 46.00 | -3.43 | -6.34 | Pass |
| 2P | 6.5820 | 45.37 | 31.74 | 10.52 | 55.89 | 42.26 | 60.00 | 50.00 | -4.11 | -7.74 | Pass |
| 3P | 11.2395 | 38.06 | 29.78 | 10.59 | 48.65 | 40.37 | 60.00 | 50.00 | -11.35 | -9.63 | Pass |
| 4P | 13.0320 | 41.48 | 32.26 | 10.65 | 52.13 | 42.91 | 60.00 | 50.00 | -7.87 | -7.09 | Pass |
| 5P | 13.9260 | 40.83 | 32.01 | 10.71 | 51.54 | 42.72 | 60.00 | 50.00 | -8.46 | -7.28 | Pass |
| 6P | 16.1666 | 40.68 | 33.03 | 10.73 | 51.41 | 43.76 | 60.00 | 50.00 | -8.59 | -6.24 | Pass |

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.





4.1 TEST LIMIT

For unintentional device, according to §15.209(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following

| Frequency | Field strength (microvolt/meter) | Rem | | Measurement distance (m) |
|-------------------|----------------------------------|------|------------|-----------------------------|
| 0.009MHz-0.490MHz | 2400/F (kHz) | - | Quasi-peak | 300 |
| 0.490MHz-1.705MHz | 24000/F (kHz) | - | Quasi-peak | 30 |
| 1.705MHz-30MHz | 30 | - | Quasi-peak | 30 |
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 4011s | 500 | 54.0 | Average | 3 |
| Above 1GHz | 500 | 74.0 | Peak | 3 |

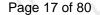
Limit calculation and transfer to 3m distance as showed in the following table:

| Frequency | Limit | Distance |
|-------------|---------------------------------|----------|
| (MHz) | (dBuV/m) | (m) |
| 0.009-0.490 | 20log(2400/F(KHz))+40log(300/3) | 3 |
| 0.490-1.705 | 20log(24000/F(KHz))+40log(30/3) | 3 |
| 1.705-30.0 | 69.5 | 3 |
| 30-88 | 40.0 | 3 |
| 88-216 | 43.5 | 3 |
| 216-960 | 46.0 | 3 |
| Above 960 | 54.0 | 3 |

For intentional device, according to §15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

Tel: +86-755-8618 0996

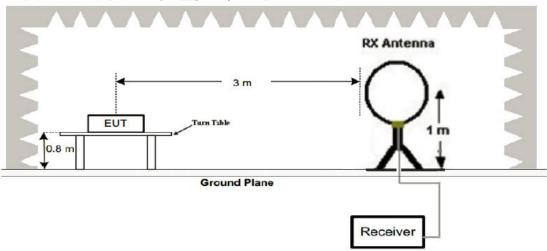
D101& D401, No.107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China



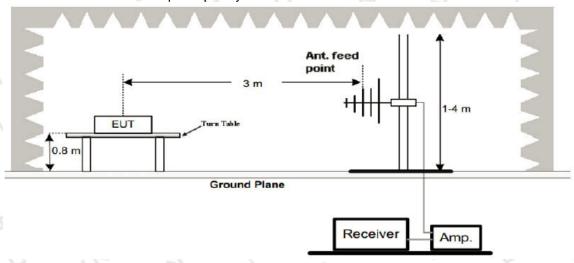


4.2 TEST SETUP

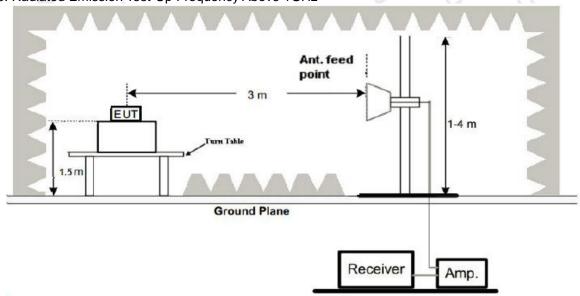
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz











4.3 TEST PROCEDURE

- Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane.
 And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9kHz to25GHz per FCC PART 15.33(a).

Note: For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 TEST RESULT

PASS

Remark:

- All modes were test at Low, Middle, and High channel, only the worst result of 802.11b Low Channel was reported for below 1GHz test.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.

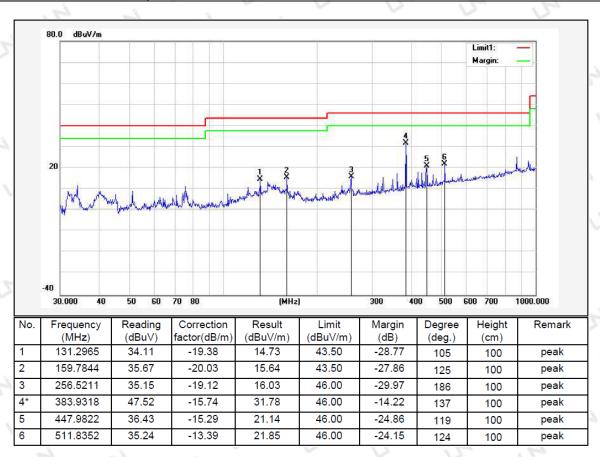






Below 1GHz Test Results:

| Temperature: | 25°C | Relative Humidity: | 60% | | | | |
|---------------|--------------------------------------|--------------------|------------|--|--|--|--|
| Test Date: | Nov. 07, 2024 | Pressure: | 1010hPa | | | | |
| Test Voltage: | AC 120V, 60Hz | Phase: | Horizontal | | | | |
| Test Mode: | Transmitting mode of 802.11b 2412MHz | | | | | | |



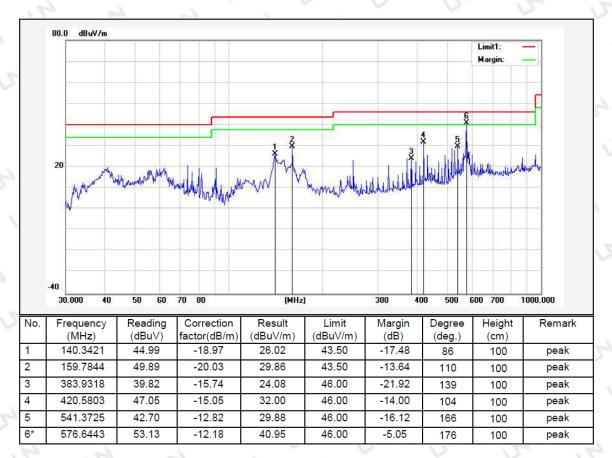
Remark: Result = Reading Level + Factor, Margin = Result - Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier

 $D101\&\,D401,\,No.107,\,Kaicheng\,High-Tech\,Park,\,Taoyuan\,Community,\,Dalang\,Sub-District,\,Longhua\,District,\,Shenzhen,\,Guangdong,\,China,\,Ch$





| Temperature: | 25°C | Relative Humidity: | 60% |
|---------------|--------------------------|--------------------|----------|
| Test Date: | Nov. 07, 2024 | Pressure: | 1010hPa |
| Test Voltage: | AC 120V, 60Hz | Phase: | Vertical |
| Test Mode: | Transmitting mode of 802 | 2.11b 2412MHz | W -1 |

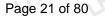


Remark: Result = Reading Level + Factor, Margin = Result - Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier

Remark:

- 1. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, emission from 9kHz to 30MHz are more than 20dB below the limit, so it was not recorded in this report.
- 2. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- 3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1MHz for measuring above 1GHz, below 30MHz was 10kHz.







Above 1 GHz Test Results:

CH01 of 802.11b Mode (2412MHz):

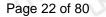
Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|--------------------|-------------------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4824 | 62.94 | -3.64 | 59.3 | 74 | -14.7 | PK |
| 4824 | 50.67 | -3.64 | 47.03 | 54 | -6.97 | AV |
| 7236 | 58.83 | -0.95 | 57.88 | 74 | -16.12 | PK |
| 7236 | 47.16 | -0.95 | 46.21 | 54 | -7.79 | AV |
| - 12. | Factor = Antenna F | rain and a second | - 1 | | | |

Vertical:

| ng Result BµV) 2.03 | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector Type |
|---------------------------------------|--------------|--------------------------|-------------------------------------|--|--|
| , , , , , , , , , , , , , , , , , , , | , , | , | , , , | , | Туре |
| 2.03 | -3 64 | 50.00 | | | |
| | 0.01 | 58.39 | 74 | -15.61 | PK |
| 9.78 | -3.64 | 46.14 | 54 | -7.86 | AV |
| 9.25 | -0.95 | 58.3 | 74 | -15.7 | PK |
| 7.54 | -0.95 | 46.59 | 54 | -7.41 | AV |
| | 9.25 7.54 | 9.25 -0.95 7.54 -0.95 | 9.25 -0.95 58.3 7.54 -0.95 46.59 | 9.25 -0.95 58.3 74 7.54 -0.95 46.59 54 | 9.25 -0.95 58.3 74 -15.7 7.54 -0.95 46.59 54 -7.41 |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





CH06 of 802.11b Mode (2437MHz):

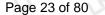
Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|---------------|---------------------|-------------|---------------------|---------------|----------------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4874 | 62.35 | -3.51 | 58.84 | 74 | -15.16 | PK |
| 4874 | 49.8 | -3.51 | 46.29 | 54 | -7.71 | AV |
| 7311 | 59.2 | -0.82 | 58.38 | 74 | -15.62 | PK |
| 7311 | 47.51 | -0.82 | 46.69 | 54 | -7.31 | AV |
| Remark: Facto | or = Antenna Factor | + Cable Los | ss – Pre-amplifier. | Margin = Abso | lute Level – L | imit |

Vertical:

| Describes Describ | _ | | | | |
|-------------------|-----------------------------------|--|--|--|---|
| Reading Result | Factor | Emission Level | Limits | Margin | Detector |
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 62.07 | -3.51 | 58.56 | 74 | -15.44 | PK |
| 49.95 | -3.51 | 46.44 | 54 | -7.56 | AV |
| 58.98 | -0.82 | 58.16 | 74 | -15.84 | PK |
| 47.05 | -0.82 | 46.23 | 54 | -7.77 | AV |
| | (dBµV) 62.07 49.95 58.98 | (dBµV) (dB) 62.07 -3.51 49.95 -3.51 58.98 -0.82 | (dBμV) (dB) (dBμV/m) 62.07 -3.51 58.56 49.95 -3.51 46.44 58.98 -0.82 58.16 | (dBμV) (dB) (dBμV/m) (dBμV/m) 62.07 -3.51 58.56 74 49.95 -3.51 46.44 54 58.98 -0.82 58.16 74 | (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 62.07 -3.51 58.56 74 -15.44 49.95 -3.51 46.44 54 -7.56 58.98 -0.82 58.16 74 -15.84 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit





CH11 of 802.11b Mode (2462MHz):

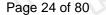
Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|---------------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4924 | 61.76 | -3.43 | 58.33 | 74 | -15.67 | PK |
| 4924 | 50.25 | -3.43 | 46.82 | 54 | -7.18 | AV |
| 7386 | 58.85 | -0.75 | 58.1 | 74 | -15.9 | PK |
| 7386 | 47.18 | -0.75 | 46.43 | 54 | -7.57 | AV |
| 0. | or = Antenna Factor | fort | | | | |

Vertical:

| V) | factor (dB) | Emission Level (dBµV/m) 59.3 | Limits (dBµV/m) | Margin (dB) | Detector Type |
|-----|----------------|------------------------------------|----------------------------------|---|--------------------------|
| · | ` ' | · · · / | , , , | ` , | Туре |
| 3 - | -3.43 | 50.3 | | | 100 |
| | | 59.5 | 74 | -14.7 | PK |
| 34 | -3.43 | 46.41 | 54 | -7.59 | AV |
| 6 - | -0.75 | 58.01 | 74 | -15.99 | PK |
| 3 - | -0.75 | 46.18 | 54 | -7.82 | AV |
|) | 76 | 76 -0.75 03 -0.75 | 76 -0.75 58.01 03 -0.75 46.18 | 76 -0.75 58.01 74 93 -0.75 46.18 54 | '6 -0.75 58.01 74 -15.99 |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





CH01 of 802.11g Mode (2412MHz):

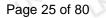
Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 61.63 | -3.64 | 57.99 | 74 | -16.01 | PK |
| 4824 | 50.4 | -3.64 | 46.76 | 54 | -7.24 | AV |
| 7236 | 57.1 | -0.95 | 56.15 | 74 | -17.85 | PK |
| 7236 | 47.11 | -0.95 | 46.16 | 54 | -7.84 | AV |

Vertical:

| ding Result (dBµV) | Factor (dB) | Emission Level | Limits | Margin | Detector |
|-----------------------|-------------------------|---|---|--|---|
| (dBµV) | (dB) | (| | | |
| | (GD) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 61.11 | -3.64 | 57.47 | 74 | -16.53 | PK |
| 49.65 | -3.64 | 46.01 | 54 | -7.99 | AV |
| 57.26 | -0.95 | 56.31 | 74 | -17.69 | PK |
| 46.92 | -0.95 | 45.97 | 54 | -8.03 | AV |
| | 49.65 57.26 46.92 | 49.65 -3.64 57.26 -0.95 46.92 -0.95 | 49.65 -3.64 46.01 57.26 -0.95 56.31 46.92 -0.95 45.97 | 49.65 -3.64 46.01 54 57.26 -0.95 56.31 74 46.92 -0.95 45.97 54 | 49.65 -3.64 46.01 54 -7.99 57.26 -0.95 56.31 74 -17.69 46.92 -0.95 45.97 54 -8.03 |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





CH06 of 802.11g Mode (2437MHz):

Horizontal:

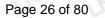
| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4874 | 61.63 | -3.51 | 58.12 | 74 | -15.88 | PK |
| 4874 | 49.97 | -3.51 | 46.46 | 54 | -7.54 | AV |
| 7311 | 57.68 | -0.82 | 56.86 | 74 | -17.14 | PK |
| 7311 | 46.7 | -0.82 | 45.88 | 54 | -8.12 | AV |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4874 | 61.54 | -3.51 | 58.03 | 74 | -15.97 | PK |
| 4874 | 49.3 | -3.51 | 45.79 | 54 | -8.21 | AV |
| 7311 | 57.73 | -0.82 | 56.91 | 74 | -17.09 | PK |
| 7311 | 46.81 | -0.82 | 45.99 | 54 | -8.01 | AV |
| - f | 1 | | | | 7.3 | * Lea |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Report No.: UNIA24082714ER-61





CH11 of 802.11g Mode (2462MHz):

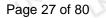
Horizontal:

| Reading Result | Factor | Emission Level | Limits | Manain | |
|----------------|-------------------------|--|---|--|--|
| | | Lillission Level | LIIIIIIS | Margin | Detector Type |
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 61.65 | -3.43 | 58.22 | 74 | -15.78 | PK |
| 49.12 | -3.43 | 45.69 | 54 | -8.31 | AV |
| 57.71 | -0.75 | 56.96 | 74 | -17.04 | PK |
| 46.53 | -0.75 | 45.78 | 54 | -8.22 | AV |
| | 61.65 49.12 57.71 | 61.65 -3.43 49.12 -3.43 57.71 -0.75 46.53 -0.75 | 61.65 -3.43 58.22 49.12 -3.43 45.69 57.71 -0.75 56.96 46.53 -0.75 45.78 | 61.65 -3.43 58.22 74 49.12 -3.43 45.69 54 57.71 -0.75 56.96 74 | 61.65 -3.43 58.22 74 -15.78 49.12 -3.43 45.69 54 -8.31 57.71 -0.75 56.96 74 -17.04 |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Type |
|---------------|-------------------|-----------|-----------------|---------------|--------------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 4924 | 61.86 | -3.43 | 58.43 | 74 | -15.57 | PK |
| 4924 | 49.32 | -3.43 | 45.89 | 54 | -8.11 | AV |
| 7386 | 57.34 | -0.75 | 56.59 | 74 | -17.41 | PK |
| 7386 | 46.9 | -0.75 | 46.15 | 54 | -7.85 | AV |
| Domork: Footo | r - Antonno Footo | Coble I o | o Dro omplifior | Margin - Abaa | luto Lovol I | imit |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





CH01 of 802.11n/HT20 Mode (2412MHz):

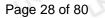
Horizontal:

| eading Result | Factor | Emission Level | Limits | Margin | 5 |
|---------------|-------------------------|---|---|--|--|
| | | | | 9 | Detector |
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 61.77 | -3.64 | 58.13 | 74 | -15.87 | PK |
| 49.58 | -3.64 | 45.94 | 54 | -8.06 | AV |
| 57.98 | -0.95 | 57.03 | 74 | -16.97 | PK |
| 46.76 | -0.95 | 45.81 | 54 | -8.19 | AV |
| | 61.77 49.58 57.98 | 61.77 -3.64 49.58 -3.64 57.98 -0.95 | 61.77 -3.64 58.13 49.58 -3.64 45.94 57.98 -0.95 57.03 | 61.77 -3.64 58.13 74 49.58 -3.64 45.94 54 57.98 -0.95 57.03 74 | 61.77 -3.64 58.13 74 -15.87 49.58 -3.64 45.94 54 -8.06 57.98 -0.95 57.03 74 -16.97 |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4824 | 61.6 | -3.64 | 57.96 | 74 | -16.04 | PK |
| 4824 | 49.48 | -3.64 | 45.84 | 54 | -8.16 | AV |
| 7236 | 57.86 | -0.95 | 56.91 | 74 | -17.09 | PK |
| 7236 | 46.66 | -0.95 | 45.71 | 54 | -8.29 | AV |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit





CH06 of 802.11n/HT20 Mode (2437MHz):

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4874 | 60.79 | -3.51 | 57.28 | 74 | -16.72 | PK |
| 4874 | 49.55 | -3.51 | 46.04 | 54 | -7.96 | AV |
| 7311 | 57.06 | -0.82 | 56.24 | 74 | -17.76 | PK |
| 7311 | 46.91 | -0.82 | 46.09 | 54 | -7.91 | AV |

Vertical:

| Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|----------------|-----------------------------------|--|--|--|---|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 61.18 | -3.51 | 57.67 | 74 | -16.33 | PK |
| 49.49 | -3.51 | 45.98 | 54 | -8.02 | AV |
| 58.11 | -0.82 | 57.29 | 74 | -16.71 | PK |
| 46.57 | -0.82 | 45.75 | 54 | -8.25 | AV |
| | (dBµV) 61.18 49.49 58.11 | (dBµV) (dB) 61.18 -3.51 49.49 -3.51 58.11 -0.82 | (dBμV) (dB) (dBμV/m) 61.18 -3.51 57.67 49.49 -3.51 45.98 58.11 -0.82 57.29 | (dBμV) (dB) (dBμV/m) (dBμV/m) 61.18 -3.51 57.67 74 49.49 -3.51 45.98 54 58.11 -0.82 57.29 74 | (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 61.18 -3.51 57.67 74 -16.33 49.49 -3.51 45.98 54 -8.02 58.11 -0.82 57.29 74 -16.71 |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





CH11of 802.11n/HT20 Mode (2462MHz):

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 4924 | 61.1 | -3.43 | 57.67 | 74 | -16.33 | PK |
| 4924 | 49.57 | -3.43 | 46.14 | 54 | -7.86 | AV |
| 7386 | 57.57 | -0.75 | 56.82 | 74 | -17.18 | PK |
| 7386 | 46.98 | -0.75 | 46.23 | 54 | -7.77 | AV |

Vertical:

Remark:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4924 | 61.3 | -3.43 | 57.87 | 74 | -16.13 | PK |
| 4924 | 49.5 | -3.43 | 46.07 | 54 | -7.93 | AV |
| 7386 | 57.27 | -0.75 | 56.52 | 74 | -17.48 | PK |
| 7386 | 46.69 | -0.75 | 45.94 | 54 | -8.06 | AV |

- 1. Measuring frequencies from 1GHz to the 25GHz.
- 2. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- 3. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- 4. The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- 5. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1GHz, below 30MHz was 10kHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 6. When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

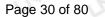
广东省深圳市龙华区大浪街道陶元社区凯诚高新园107(D101/D401) (P.C.518109)

7. All modes of operation were investigated and the worst-case emissions are reported.



D101& D401, No.107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

Tel: +86-755-8618 0996





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Operation Mode: CH01 of 802.11b Mode (2412MHz)

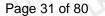
Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 2310 | 58.13 | -5.81 | 52.32 | 74 | -21.68 | PK |
| 2310 | 1 | -5.81 | 5 1 5 | 54 | 4 | AV |
| 2390 | 66.33 | -5.84 | 60.49 | 74 | -13.51 | PK |
| 2390 | 48.79 | -5.84 | 42.95 | 54 | -11.05 | AV |

Vertical:

| eading Result | Factor | Emission Level | Limits | Marain | |
|---------------|---------------------|---------------------------------------|--|---|--|
| | | Lillioololi Lovoi | LIIIIIIS | Margin | Detector |
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 57.31 | -5.81 | 51.5 | 74 | -22.5 | PK |
| 1 | -5.81 | / | 54 | / | AV |
| 65.96 | -5.84 | 60.12 | 74 | -13.88 | PK |
| 49.41 | -5.84 | 43.57 | 54 | -10.43 | AV |
| 7 | 57.31 / 65.96 | 57.31 -5.81 / -5.81 65.96 -5.84 | 57.31 -5.81 51.5 / -5.81 / 65.96 -5.84 60.12 | 57.31 -5.81 51.5 74 / -5.81 / 54 65.96 -5.84 60.12 74 | 57.31 -5.81 51.5 74 -22.5 / -5.81 / 54 / 65.96 -5.84 60.12 74 -13.88 |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





Operation Mode: CH11 of 802.11b Mode (2462MHz)

Horizontal:

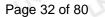
| Frequency Reading Result Factor Emission Level Limits Margin Detector Type (MHz) (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) Type 2483.5 57.35 -5.65 51.7 74 -22.3 PK 2483.5 / -5.65 / 54 / AV 2500 58.14 -5.72 52.42 74 -21.58 PK 2500 / -5.72 / 54 / AV | | | | | | | |
|--|-----------|----------------|--------|----------------|----------|--------|----------|
| 2483.5 57.35 -5.65 51.7 74 -22.3 PK 2483.5 / -5.65 / 54 / AV 2500 58.14 -5.72 52.42 74 -21.58 PK | Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
| 2483.5 / -5.65 / 54 / AV 2500 58.14 -5.72 52.42 74 -21.58 PK | (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 2500 58.14 -5.72 52.42 74 -21.58 PK | 2483.5 | 57.35 | -5.65 | 51.7 | 74 | -22.3 | PK |
| | 2483.5 | / | -5.65 | 21 12 | 54 | 1 | AV |
| 2500 / -5.72 / 54 / AV | 2500 | 58.14 | -5.72 | 52.42 | 74 | -21.58 | PK |
| | 2500 | / | -5.72 | / | 54 | 12 | AV |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 2483.5 | 57.8 | -5.65 | 52.15 | 74 | -21.85 | PK |
| 2483.5 | 1 | -5.65 | / | 54 | / | AV |
| 2500 | 58.03 | -5.72 | 52.31 | 74 | -21.69 | PK |
| 2500 | / | -5.72 | 12/ | 54 | 1 | AV |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit





Operation Mode: CH01 of 802.11g Mode (2412MHz)

Horizontal:

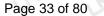
| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 2310 | 57.74 | -5.81 | 51.93 | 74 | -22.07 | PK |
| 2310 | 1 | -5.81 | 5 1 5 | 54 | 1 | AV |
| 2390 | 65.75 | -5.84 | 59.91 | 74 | -14.09 | PK |
| 2390 | 48.97 | -5.84 | 43.13 | 54 | -10.87 | AV |

Vertical:

| Factor | Emission Level | Limits | Margin | Detector |
|--------|----------------|----------|--------|----------|
| (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| -5.81 | 51.81 | 74 | -22.19 | PK |
| -5.81 | / | 54 | / | AV |
| -5.84 | 60.43 | 74 | -13.57 | PK |
| -5.84 | 42.18 | 54 | -11.82 | AV |
| | | | 0 | |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

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Operation Mode: CH11 of 802.11g Mode (2462MHz)

Horizontal:

| | | | | | N. 3 |
|----------------|-----------------|--|---|---|---|
| Reading Result | Factor | Emission Level | Limits | Margin | Detector |
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 57.15 | -5.65 | 51.5 | 74 | -22.5 | PK |
| / | -5.65 | 3 / 3 | 54 | | AV |
| 57.23 | -5.72 | 51.51 | 74 | -22.49 | PK |
| 1 | -5.72 | / | 54 | 12 | AV |
| | (dBµV) 57.15 | (dBμV) (dB) 57.15 -5.65 / -5.65 57.23 -5.72 | (dBμV) (dB) (dBμV/m) 57.15 -5.65 51.5 / -5.65 / 57.23 -5.72 51.51 | (dBμV) (dB) (dBμV/m) (dBμV/m) 57.15 -5.65 51.5 74 / -5.65 / 54 57.23 -5.72 51.51 74 | (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 57.15 -5.65 51.5 74 -22.5 / -5.65 / 54 / 57.23 -5.72 51.51 74 -22.49 |

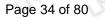
Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 2483.5 | 57.26 | -5.65 | 51.61 | 74 | -22.39 | PK |
| 2483.5 | / | -5.65 | / | 54 | / | AV |
| 2500 | 57.28 | -5.72 | 51.56 | 74 | -22.44 | PK |
| 2500 | / | -5.72 | 12/ | 54 | 1 | AV |
| 500 | | | | 1.3 | 4 4 | |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

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Operation Mode: CH01 of 802.11n/HT20 Mode (2412MHz)

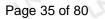
Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 2310 | 57.77 | -5.81 | 51.96 | 74 | -22.04 | PK |
| 2310 | / | -5.81 | 31 13 | 54 | | AV |
| 2390 | 66.23 | -5.84 | 60.39 | 74 | -13.61 | PK |
| 2390 | 48.86 | -5.84 | 43.02 | 54 | -10.98 | AV |

Vertical:

| Describes Describ | _ | | | | |
|-------------------|-------------------------------|--|---|---|---|
| Reading Result | Factor | Emission Level | Limits | Margin | Detector |
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type |
| 57.91 | -5.81 | 52.1 | 74 | -21.9 | PK |
| 1 | -5.81 | / | 54 | / | AV |
| 65.96 | -5.84 | 60.12 | 74 | -13.88 | PK |
| 48.21 | -5.84 | 42.37 | 54 | -11.63 | AV |
| | (dBµV) 57.91 / 65.96 | (dBμV) (dB) 57.91 -5.81 / -5.81 65.96 -5.84 | (dBμV) (dB) (dBμV/m) 57.91 -5.81 52.1 / -5.81 / 65.96 -5.84 60.12 | (dBμV) (dB) (dBμV/m) (dBμV/m) 57.91 -5.81 52.1 74 / -5.81 / 54 65.96 -5.84 60.12 74 | (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 57.91 -5.81 52.1 74 -21.9 / -5.81 / 54 / 65.96 -5.84 60.12 74 -13.88 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit





Operation Mode: CH11 of 802.11n/HT20 Mode (2462MHz)

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|---------------|---------------------|---------------|---------------------|---------------|----------------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 2483.5 | 57.28 | -5.65 | 51.63 | 74 | -22.37 | PK |
| 2483.5 | 1 | -5.65 | 21 12 | 54 | 1 | AV |
| 2500 | 57.31 | -5.72 | 51.59 | 74 | -22.41 | PK |
| 2500 | <u></u> | -5.72 | / | 54 | 1 | AV |
| Remark: Facto | or = Antenna Factor | r + Cable Los | ss – Pre-amplifier. | Margin = Abso | lute Level – L | imit |

Vertical:

| 5 | | | | | The state of the s | |
|-----------|----------------|---------|----------------|----------|--|----------|
| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 2483.5 | 57.91 | -5.65 | 52.26 | 74 | -21.74 | PK |
| 2483.5 | 1 | -5.65 | 4/4 | 54 | / | AV |
| 2500 | 57.78 | -5.72 | 52.06 | 74 | -21.94 | PK |
| 2500 | / | -5.72 | 18/ | 54 | / | AV |
| 1 100 | | 0.11.15 | D !!! | | 13 | 1 |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Note:

1. Since the peak value is less than the average limit, the average value does not reflected in the report.





5 6dB &99% OCCUPIED BANDWIDTH

5.1 TEST LIMIT

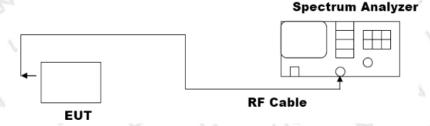
| FCC Part15(15.247), Subpart C | | | | | | | |
|-------------------------------|-----------|------------------------------------|--------------------------|--------|--|--|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | | | |
| 15.247(a)(2) | 2 L | >= 500KHz (6dB bandwidth) | 2400-2483.5 | PASS | | | |
| 63.10-11.2(c) | Bandwidth | N/A (99% OCCUPIED BANDWIDTH) | 2400-2483.5 | PASS | | | |

5.2 TEST PROCEDURE

5.2.1 6dB BANDWIDTH MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.
- 5.2.2 99% OCCUPIED BANDWIDTH
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



5.4 MEASUREMENT EQUIPMENT USED

The same as described in section 2.7.

5.5 TEST RESULT

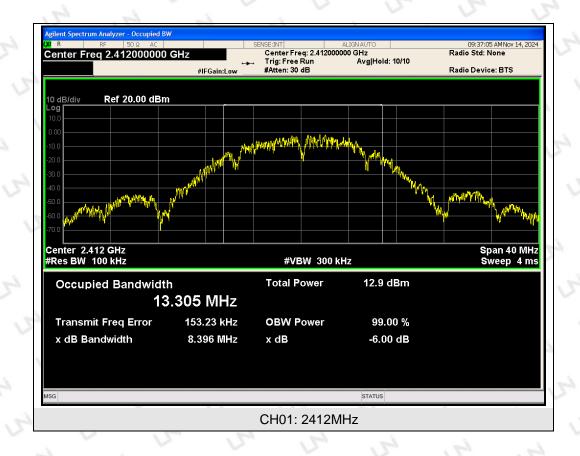
PASS



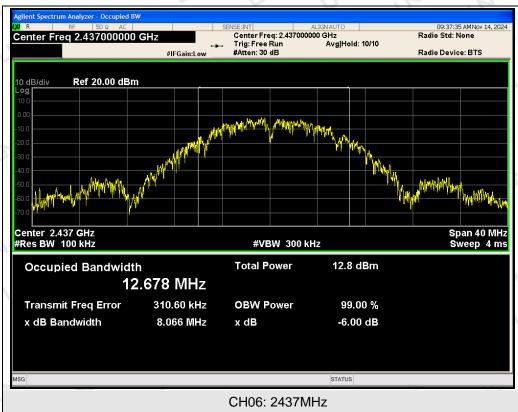


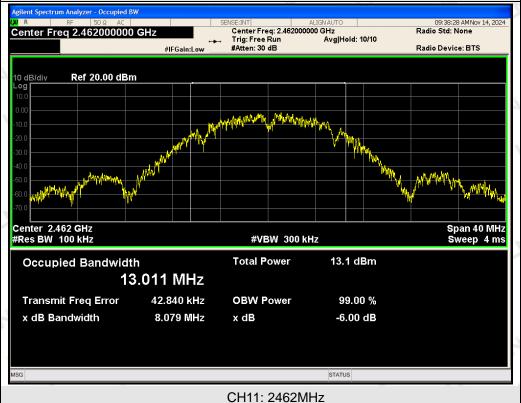


| | TX 802.11b Mode | | | | |
|--------------------|------------------------|--------------------------|--------|--|--|
| Frequency (MHz) | 6dB Bandwidth (MHz) | Channel Separation (kHz) | Result | | |
| 2412 | 8.396 | >=500 | PASS | | |
| 2437 | 8.066 | >=500 | PASS | | |
| 2462 | 8.079 | >=500 | PASS | | |



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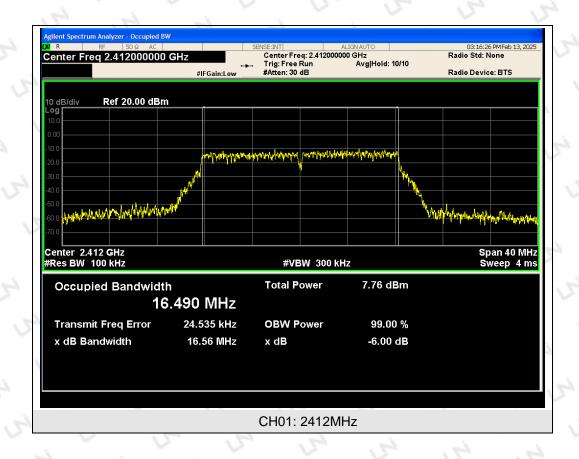






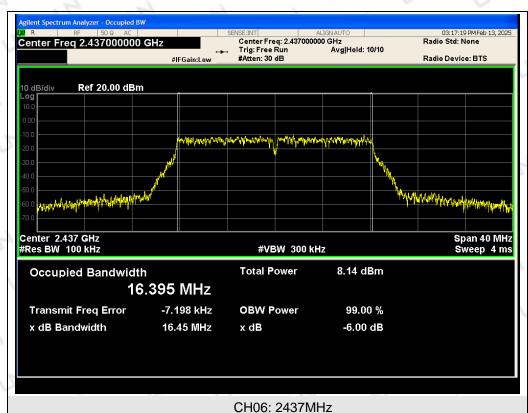


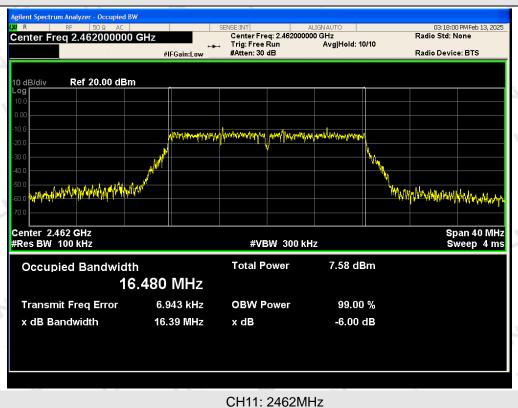
| | TX 802.1 | 1g Mode | | |
|---|----------|---------|------|--|
| Frequency (MHz) 6dB Bandwidth Channel Separation (kHz) Result | | | | |
| 2412 | 16.56 | >=500 | PASS | |
| 2437 | 16.45 | >=500 | PASS | |
| 2462 | 16.39 | >=500 | PASS | |



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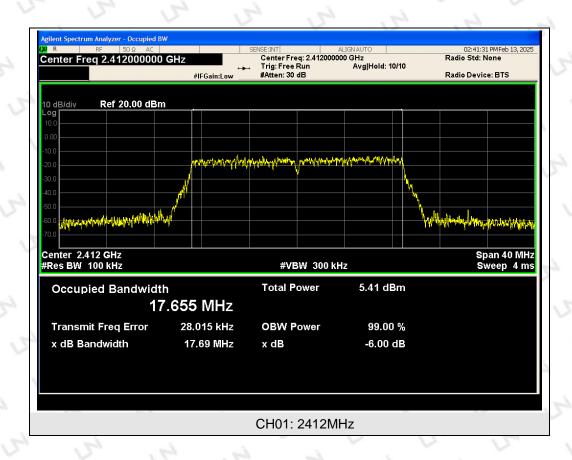


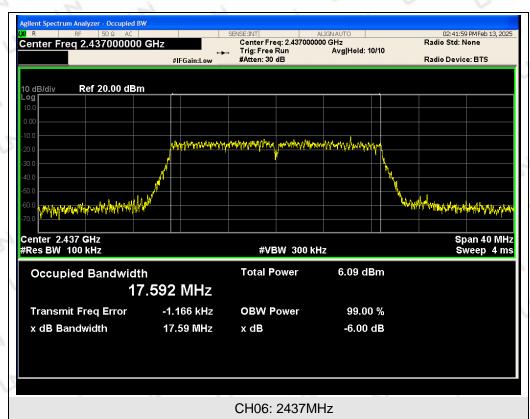


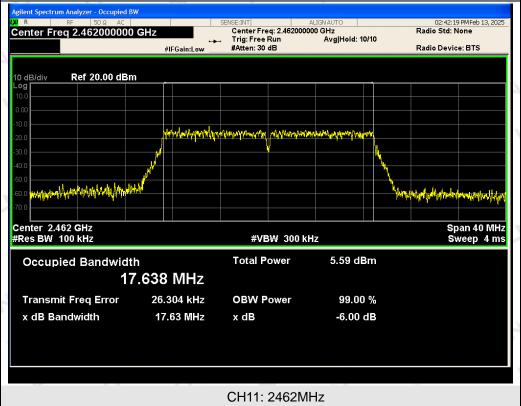




| TX 802.11n/HT20 Mode | | | | |
|----------------------|------------------------|--------------------------|--------|--|
| Frequency (MHz) | 6dB Bandwidth (MHz) | Channel Separation (kHz) | Result | |
| 2412 | 17.69 | >=500 | PASS | |
| 2437 | 17.59 | >=500 | PASS | |
| 2462 | 17.63 | >=500 | PASS | |



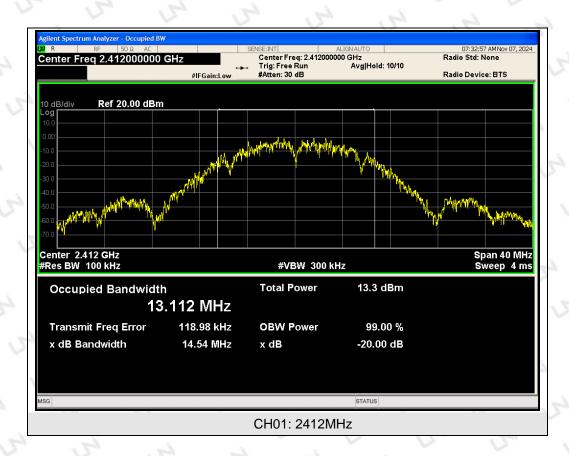


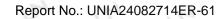




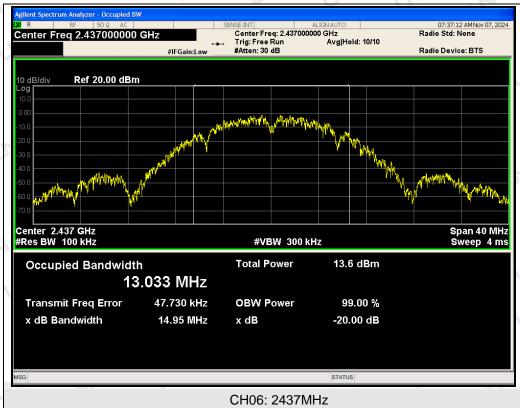


| | TX 802.11b Mode | |
|--------------------|------------------------|--------|
| Frequency (MHz) | 99% Bandwidth (MHz) | Result |
| 2412 | 13.112 | PASS |
| 2437 | 13.033 | PASS |
| 2462 | 13.050 | PASS |





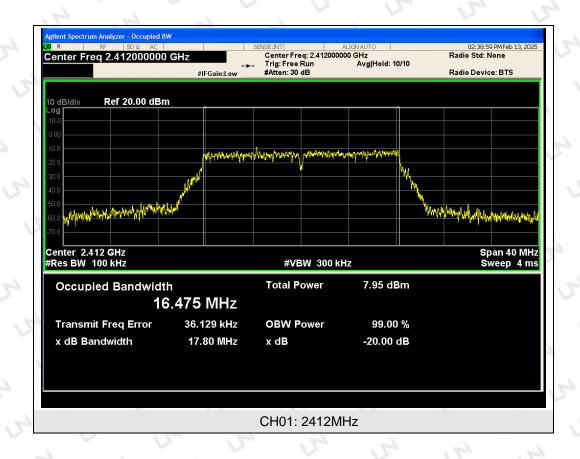




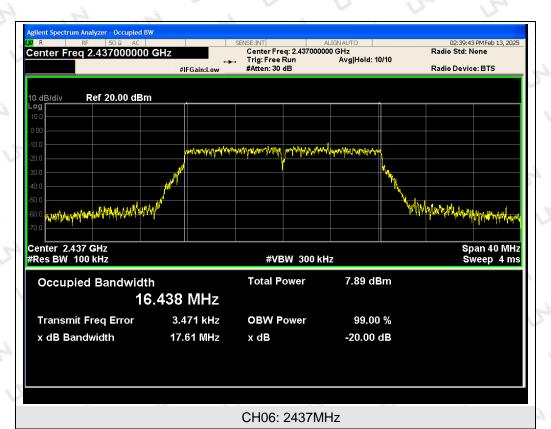


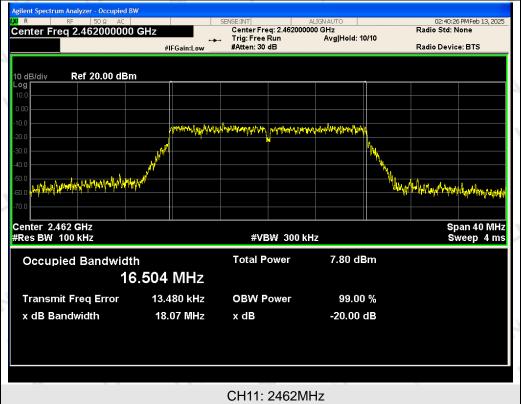


| | TX 802.11g Mode | |
|--------------------|------------------------|--------|
| Frequency (MHz) | 99% Bandwidth (MHz) | Result |
| 2412 | 16.475 | PASS |
| 2437 | 16.438 | PASS |
| 2462 | 16.504 | PASS |





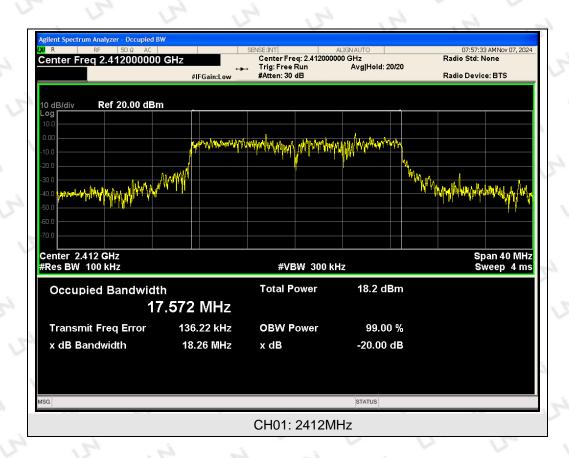






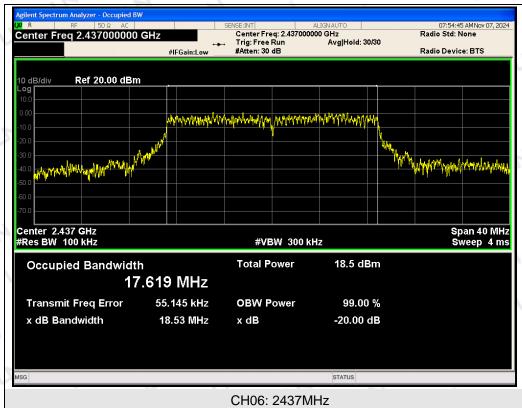


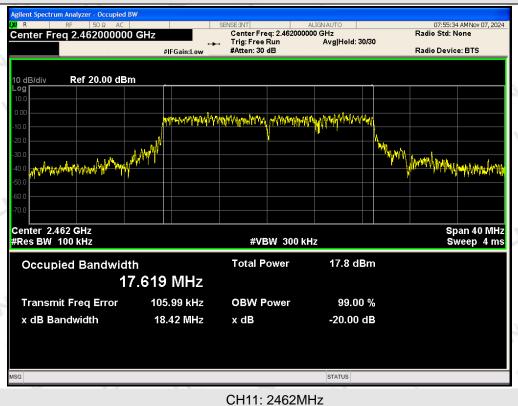
| | TX 802.11n/HT20 Mod | le |
|--------------------|------------------------|--------|
| Frequency (MHz) | 99% Bandwidth (MHz) | Result |
| 2412 | 17.572 | PASS |
| 2437 | 17.619 | PASS |
| 2462 | 17.619 | PASS |

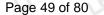


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6 POWER SPECTRAL DENSITY

6.1 TEST LIMIT

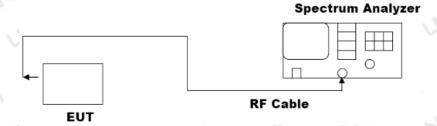
| FCC Part15(15.247), Subpart C | | | | |
|-------------------------------|---------------------------|------------------------|--------------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247 | Power Spectral Density | 8 dBm (in any 3kHz) | 2400-2483.5 | PASS |

6.2 TEST PROCEDURE

- (1) Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2) Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3)Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

6.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

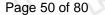


6.4 EQUIPMENT USED

The same as described in section 2.7.

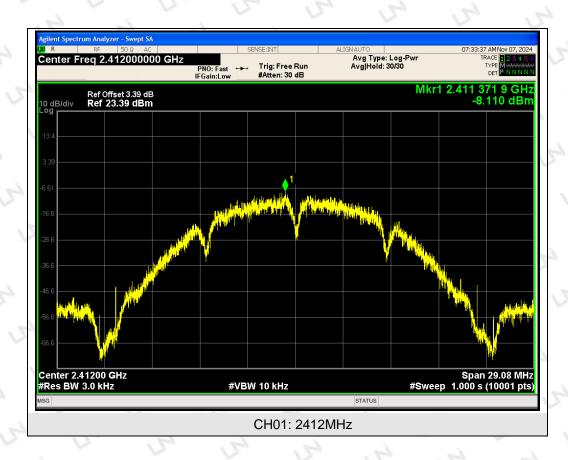
6.5 TEST RESULT

PASS





| | TX 802.1 | 1b Mode | |
|--------------------|-----------------------------|---------------------|--------|
| Frequency (MHz) | Power Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -8.110 | 8 | PASS |
| 2437 | -7.636 | 8 | PASS |
| 2462 | -7.491 | 8 | PASS |



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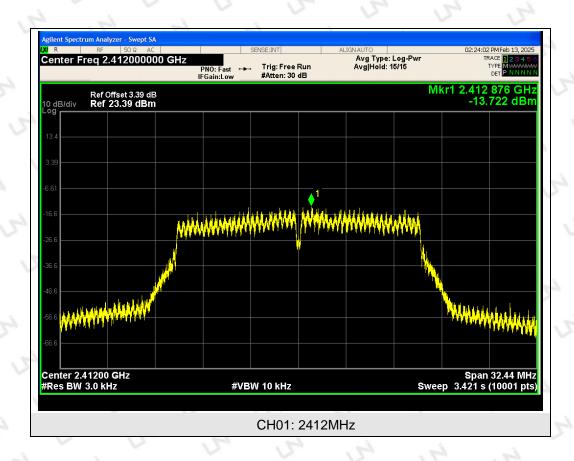




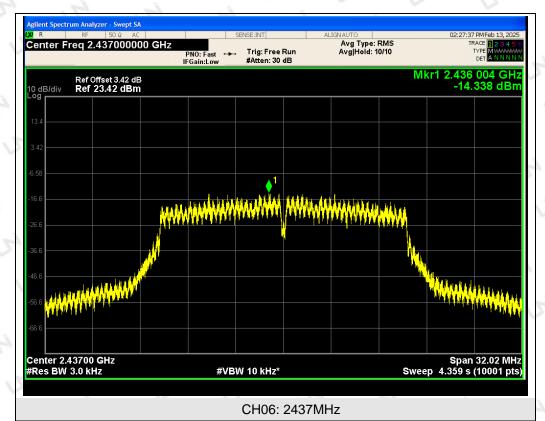


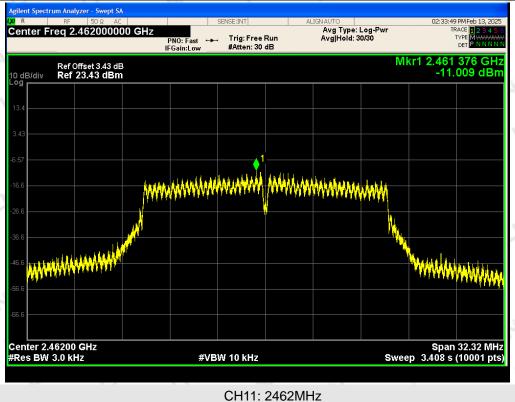


| TX 802.11g Mode | | | |
|--------------------|-----------------------------|--------|------|
| Frequency (MHz) | Power Density (dBm/3kHz) | Result | |
| 2412 | -13.722 | 8 | PASS |
| 2437 | -14.338 | 8 | PASS |
| 2462 | -11.009 | 8 | PASS |



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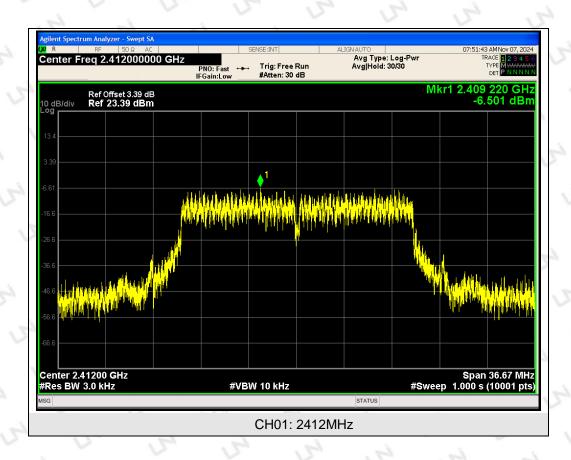


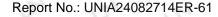




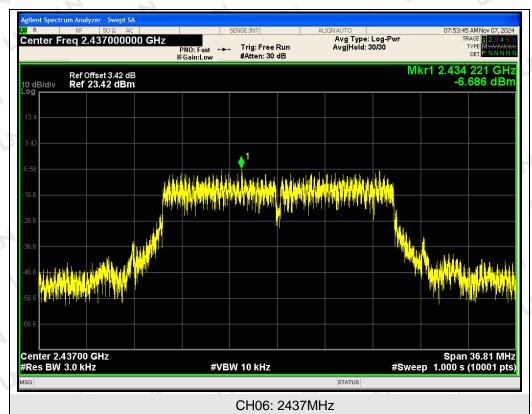


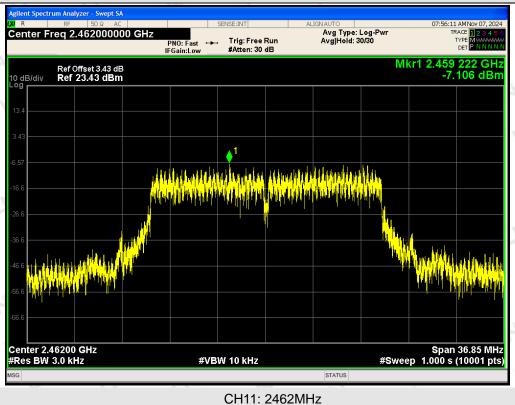
| | TX 802.11n | /HT20 Mode | |
|--------------------|-----------------------------|---------------------|--------|
| Frequency (MHz) | Power Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -6.501 | 8 | PASS |
| 2437 | -6.686 | 8 | PASS |
| 2462 | -7.106 | 8 | PASS |

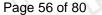














7 AVERAGE OUTPUT POWER

7.1 TEST LIMIT

| FCC Part15(15.247), Subpart C | | | | |
|--|-------------------------|--------------------|-------------|------|
| Section Test Item Limit Frequency Range (MHz) Result | | | | |
| 15.247(b)(3) | Average Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

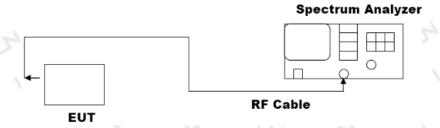
7.2 TEST PROCEDURE

For average power test:

- 1. Connect EUT RF output port to Spectrum Analyzer.
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Record the average output power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

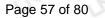
7.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



7.4 EQUIPMENT USED

The same as described in section 2.7.

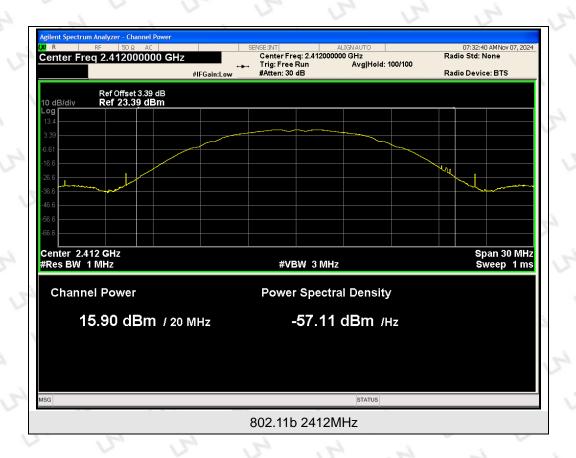






PASS

| | 802.11b Mode | |
|--------------------|--|----------------|
| Frequency (MHz) | Average Conducted Output Power(dBm) | Limit (dBm) |
| 2412 | 15.90 | 30 |
| 2437 | 10.09 | 30 |
| 2462 | 9.96 | 30 |

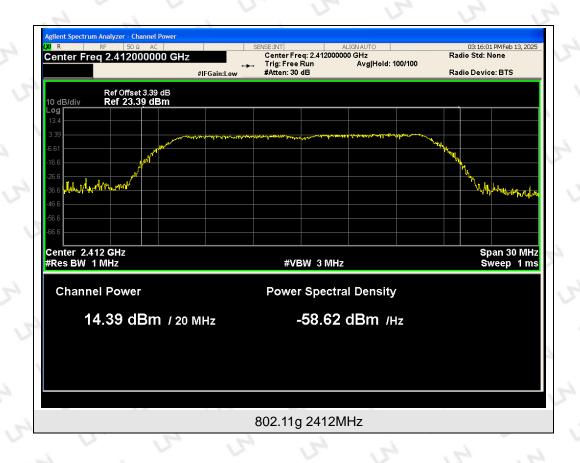






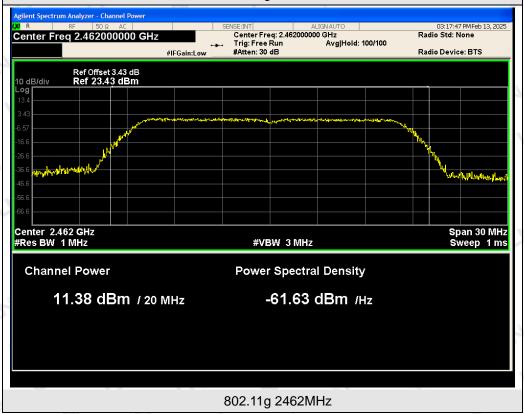


| | 802.11g Mode | |
|--------------------|--|----------------|
| Frequency (MHz) | Average Conducted Output Power(dBm) | Limit (dBm) |
| 2412 | 14.39 | 30 |
| 2437 | 12.09 | 30 |
| 2462 | 11.38 | 30 |



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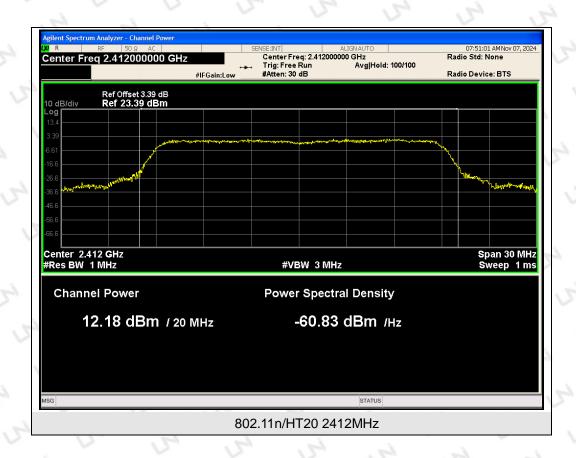








| | 802.11n/HT20 Mode | | |
|--------------------|--|----------------|--|
| Frequency (MHz) | Average Conducted Output Power(dBm) | Limit (dBm) | |
| 2412 | 12.18 | 30 | |
| 2437 | 11.17 | 30 | |
| 2462 | 11.32 | 30 | |

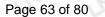


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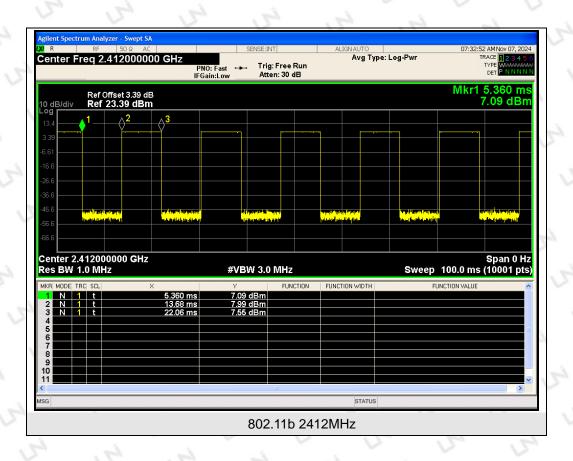






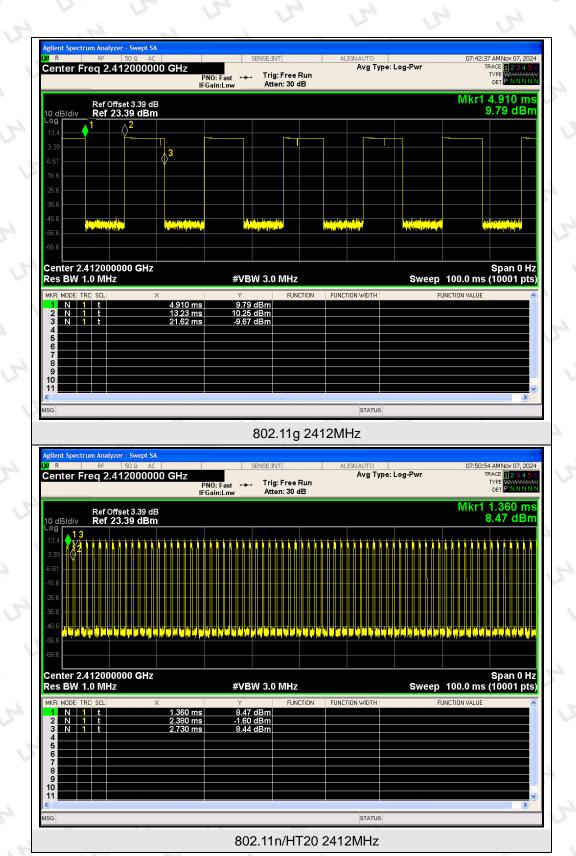
| Test Mode | Frequency (MHz) | Duty Cycle (%) | Duty cycle factor (dB) |
|--------------|--------------------|-------------------|------------------------|
| 802.11b | 2412 | 50.18 | 2.99 |
| 802.11g | 2412 | 50.21 | 2.99 |
| 802.11n/HT20 | 2412 | 25.55 | 5.93 |

Note: Duty cycle factor (dB)= 20log (Ton / (Ton + Toff)) (dB)



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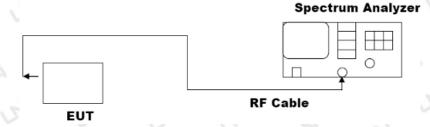


8 OUT OF BAND EMISSIONS

8.1 TEST LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



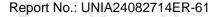
8.3 TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as TX operation and connect directly to the spectrum analyzer.
- 3. Based on FCC Part15 C Section 15.247: RBW=100kHz, VBW=300kHz.
- 4. Set detected by the spectrum analyzer with peak detector.

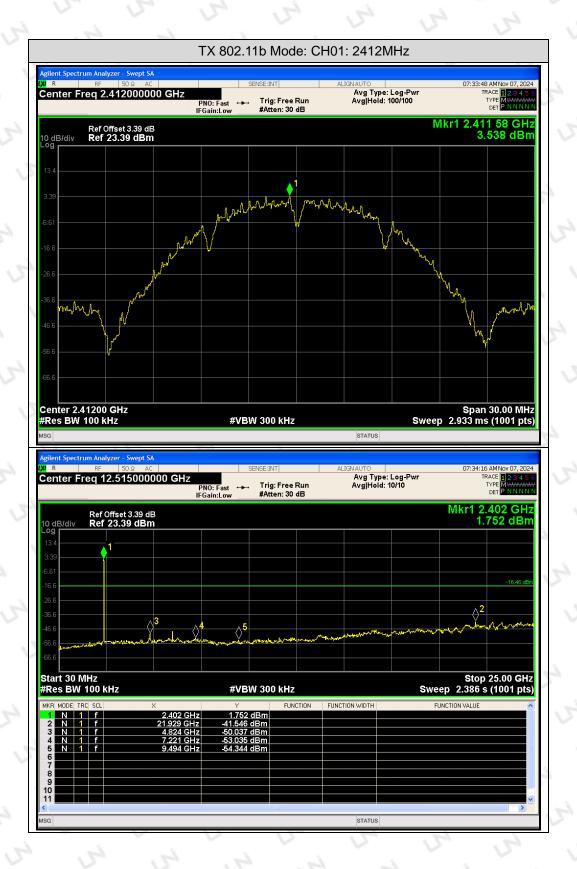
8.4 MEASUREMENT EQUIPMENT USED

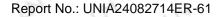
The same as described in section 2.7.

8.5 TEST RESULT

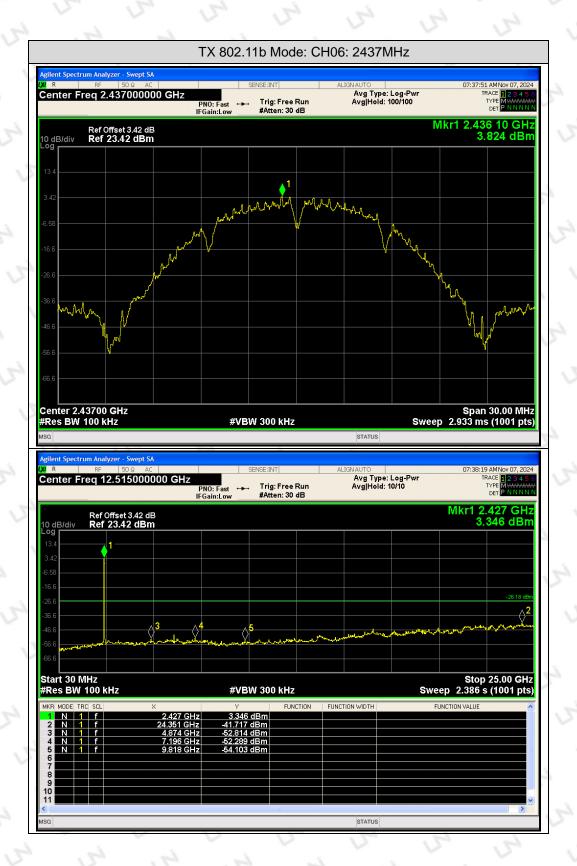


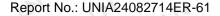




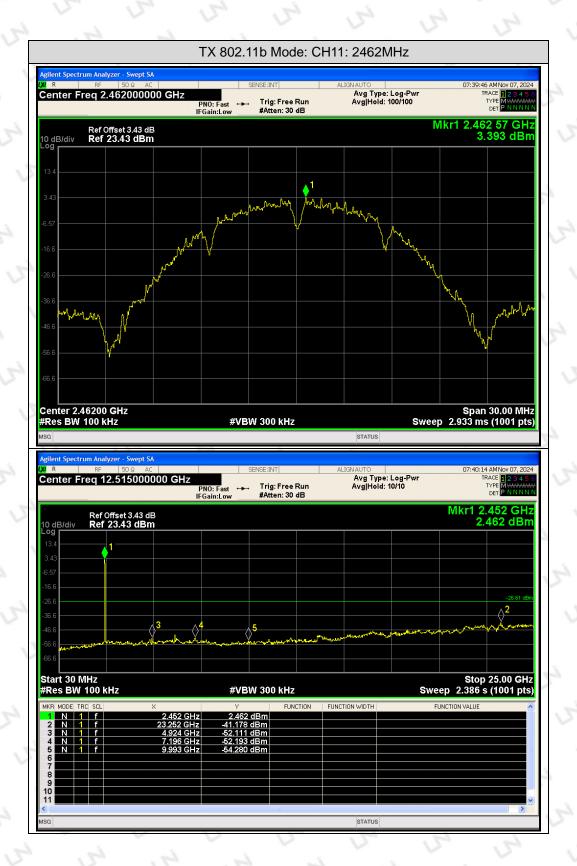


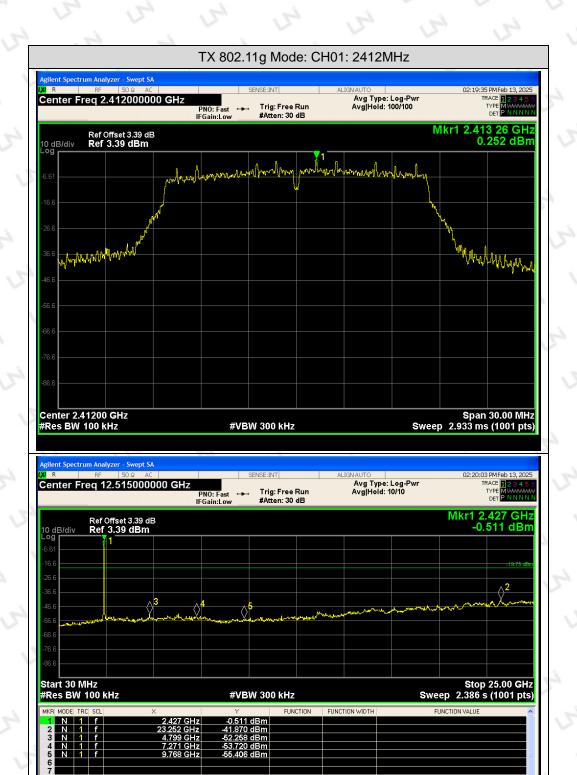


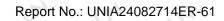




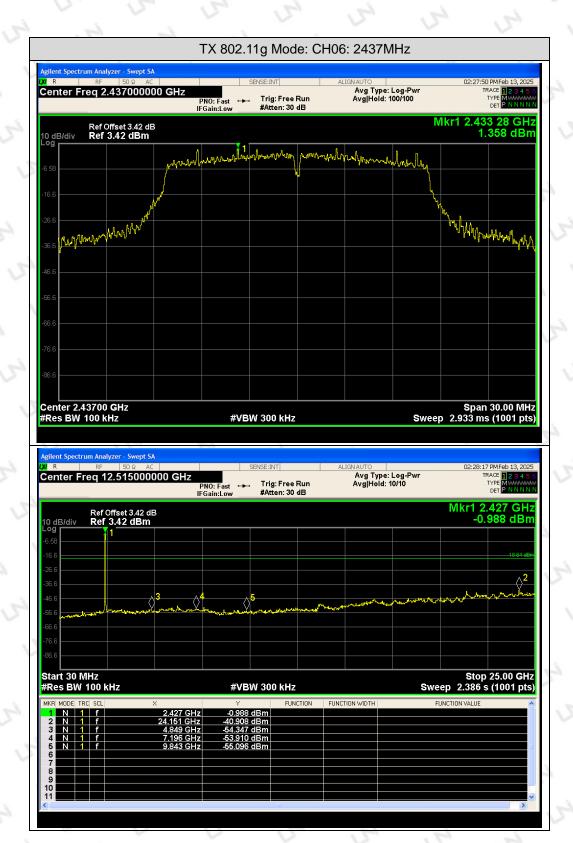






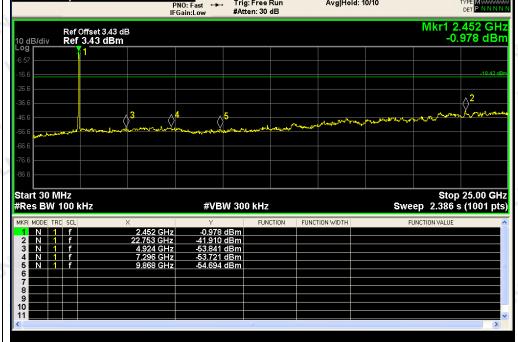




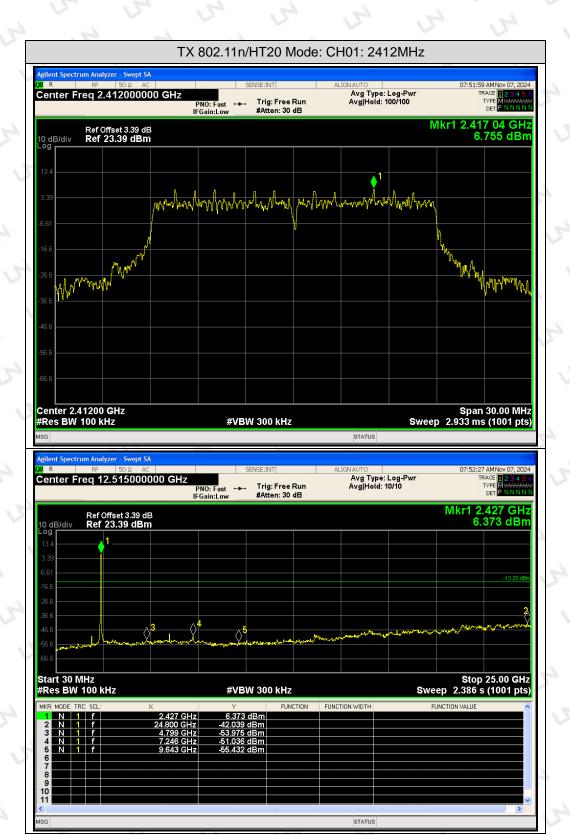










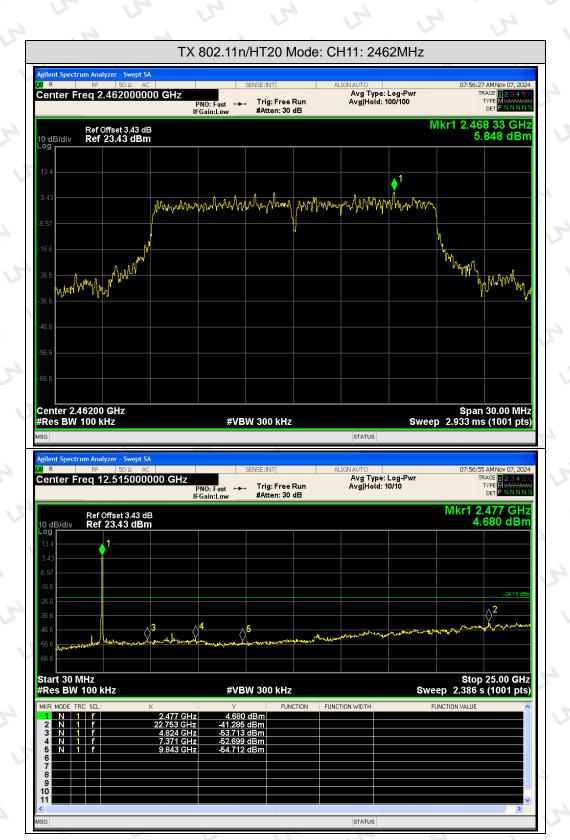


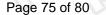




STATUS



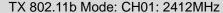






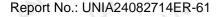
Band Edge Emissions in Non-Restricted Frequency Bands







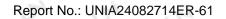
TX 802.11b Mode: CH11: 2462MHz



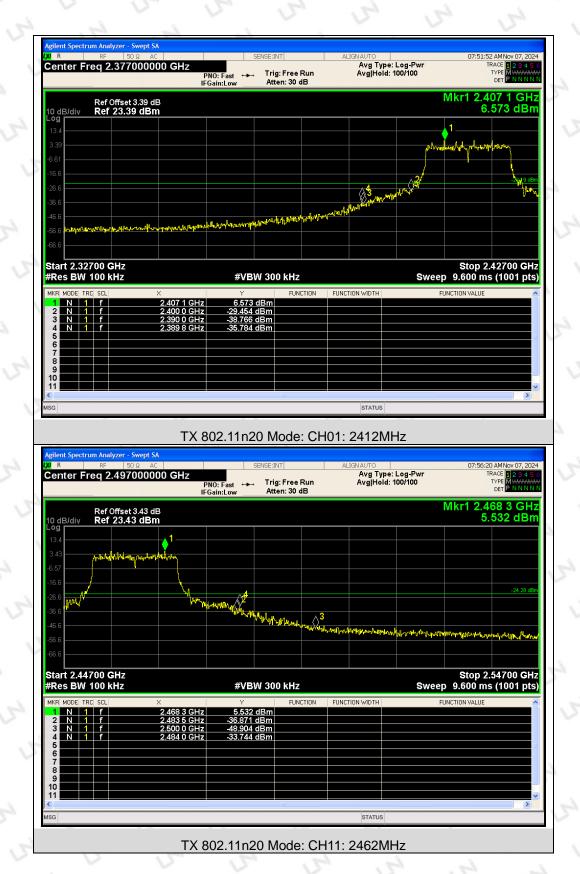




TX 802.11g Mode: CH11: 2462MHz

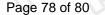






Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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9 ANTENNA REQUIREMENT

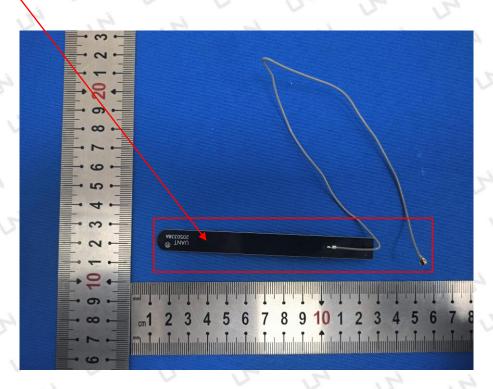
Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

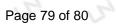
Antenna Connected Construction

The antenna used in this product is a FPC Antenna, The directional gains of antenna used for transmitting is 2.55dBi.

ANTENNA

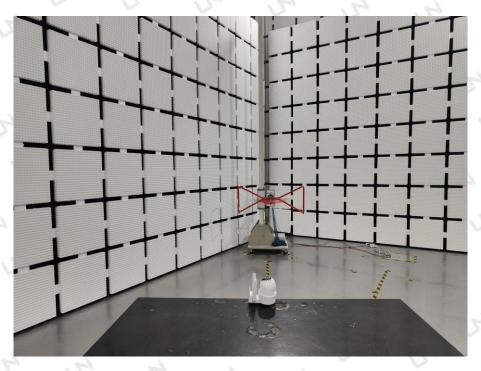




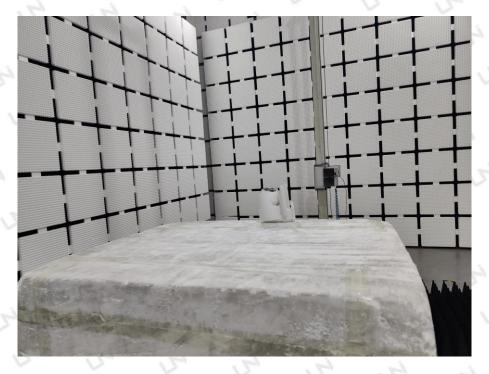




RADIATED EMISSION



30MHz-1000MHz



Above 1GHz



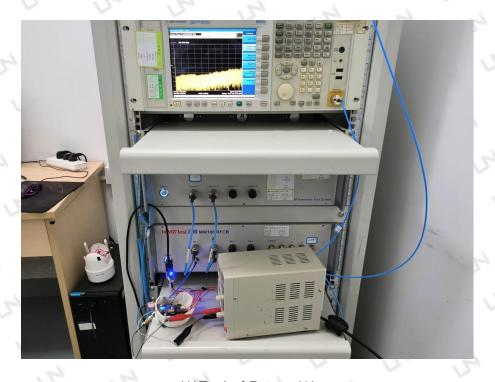
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CONDUCTED EMISSION



RF CONDUCTED



End of Report

