

TEST REPORT

Report No. CISRR24120605002

Project No. CISR241206050

FCC ID 2AL6KBLM8723DU1

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Manufacturer ShenZhen BiLian Electronic Co.,Ltd.

Address Room 501, Building 3, No. 32, Dafu Road, Zhangge Community,

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Product Name 802.11b/g/n 150Mbps WLAN + Bluetooth v4.2 Combo USB Module

Trade Mark N/A

Model/Type reference BL-M8723DU1

Listed Model(s) N/A

Standard 47 CFR Part 15.247

Test date December 7, 2024 to December 23, 2024

Issue date December 24, 2024

Test result Complied

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GenryLong

Approved by: Genry Long

The test results relate only to the tested samples.

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1. REPORT VERSION

| Version No. | Issue date | Description |
|-------------|-------------------|-------------|
| 00 | December 24, 2024 | Original |
| | | |
| | | |



2. TEST DESCRIPTION

| No. | Test Item | Standard Requirement | Result |
|-----|---|----------------------------------|--------|
| 1 | Antenna Requirement | 47 CFR 15.203 | Pass |
| 2 | Conducted Emission at AC power line | 47 CFR 15.207(a) | Pass |
| 3 | 6dB Bandwidth | 47 CFR 15.247(a)(2) | Pass |
| 4 | Maximum Conducted Output Power | 47 CFR 15.247(b)(3) | Pass |
| 5 | Power Spectral Density | 47 CFR 15.247(e) | Pass |
| 6 | Conducted band edge and spurious emission | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| 7 | Radiated band edge emission | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| 8 | Radiated Spurious Emission (below 1GHz) | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| 9 | Radiated Spurious Emission (Above 1GHz) | 47 CFR 15.247(d), 15.209, 15.205 | Pass |

Note:

The measurement uncertainty is not included in the test result.



3. **SUMMARY**

3.1. Product Description *

| Main unit information: | |
|-----------------------------|--|
| Product Name: | 802.11b/g/n 150Mbps WLAN + Bluetooth v4.2 Combo USB Module |
| Trade Mark: | N/A |
| Model No.: | BL-M8723DU1 |
| Listed Model(s): | N/A |
| Model difference: | N/A |
| Power supply: | DC 3.3V |
| Hardware version: | V1.0 |
| Software version: | V1.0 |
| Accessory unit information: | |
| Battery information: | N/A |

3.2. Radio Specification Description *

| Modulation type: | 802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM) |
|----------------------|--|
| Operation frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz |
| Channel number: | 802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels |
| Channel separation: | 5MHz |
| Antenna type: | PCB Antenna |
| Antenna gain: | 2.5dBi |

Note:

- 1) *: Since the above information is provided by the applicant relevant results or conclusions of this report are only made for these information, Bangce is not responsible for the authenticity, integrity and results of the information and/or the validity of the conclusion.
- 2) Operation frequency list as follow:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| 1 | 2412 | 5 | 2432 | 9 | 2452 |
| 2 | 2417 | 6 | 2437 | 10 | 2457 |
| 3 | 2422 | 7 | 2442 | 11 | 2462 |
| 4 | 2427 | 8 | 2447 | 1 | / |



3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Deviation from standards

None

3.5. Testing Site

| Laboratory Name | Shenzhen Bangce Testing Technology Co., Ltd. |
|-------------------------|--|
| Laboratory Location | 101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen,Guangdong, China |
| Contact information | Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/ |
| FCC registration number | 736346 |
| FCC designation number | CN172 |



TEST CONFIGURATION

3.6. Test frequency list

| Lowest Channel (LCH) | Middle Channel (MCH) | Highest Channel (HCH) |
|----------------------|----------------------|-----------------------|
| (MHz) | (MHz) | (MHz) |
| 2412 | 2437 | 2462 |

3.7. Descriptions of test mode

| No | Test mode | Description |
|-----|--------------------|--|
| TM1 | 802.11b mode | Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel. |
| TM2 | 802.11g mode | Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel. |
| ТМ3 | 802.11n(HT20) mode | Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel. |
| TM4 | 802.11n(HT40) mode | Keep the EUT in 802.11n(HT40) transmitting mode at lowest, middle and highest channel. |
| TM5 | Link mode | Keep the EUT in WiFi linking mode with AE. |

3.8. Test sample information

| Туре | Sample No. |
|-----------------|-------------------|
| Engineer sample | CISR241206050-S01 |
| Normal sample | CISR241206050-S02 |

3.9. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Item | Equipment name | Trade Name | Model No. |
|------|----------------|---------------------------------------|--------------|
| 1 | Adapter | Guangdong Sangu Technology Co. Itd | SG-0501000AU |
| 2 | PC | Lenovo | ThinkPad |

3.10. Environmental conditions

| Туре | Requirement |
|--------------------|--------------|
| Temperature: | 15~35°C |
| Relative Humidity: | 25~75% |
| Air Pressure: | 860~1060mbar |



3.11. Equipment Used during the Test

Conducted Emission at AC power line

| | <u> </u> | | | | | |
|------|--|---------------|--------------|------------|------------------|------------|
| Item | Equipment name | Manufacturer | Model | Serial No. | Calibration date | Due date |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 100853 | 2024-01-08 | 2025-01-07 |
| 2 | Artificial power network | Schwarzbeck | NSLK812 7 | 8127-01096 | 2024-01-08 | 2025-01-07 |
| 3 | 8-wire Impedance Stabilization Network | Schwarzbeck | NTFM 8158 | 8158-00337 | 2024-01-08 | 2025-01-07 |
| 4 | Artificial power network | Schwarzbeck | ENV216 | / | 2024-01-08 | 2025-01-07 |

6dB Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

| Item | Equipment name | Manufacturer | Model | Serial No. | Calibration date | Due date |
|------|----------------------------|--------------|---------|------------------|------------------|------------|
| 1 | MXG RF Signal Generator | Agilent | N5181A | MY50145362 | 2024-01-08 | 2025-01-07 |
| 2 | Spectrum analyzer | R&S | FSV-40N | 102130 | 2024-01-08 | 2025-01-07 |
| 3 | Vector Signal Generator | Agilent | N5182A | MY50142364 | 2024-06-14 | 2025-06-13 |
| 4 | Power Meter | WCS | WCS-PM | WCSPM23040 5A | 2024-01-08 | 2025-01-07 |

Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz)

Emissions in frequency bands (above 1GHz)

| Item | Equipment name | Manufacturer | Model | Serial No. | Calibration date | Due date |
|------|------------------------|---------------|-----------------|------------------|------------------|------------|
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 100853 | 2024-01-08 | 2025-01-07 |
| 2 | Amplifier | Tonscend | TAP9K3G 40 | AP23A806027 0 | 2024-01-08 | 2025-01-07 |
| 3 | Prime amplifier | Tonscend | TAP0101 8050 | AP23A806028 0 | 2024-01-08 | 2025-01-07 |
| 4 | 9*6*6 anechoic chamber | SKET | 9.3*6.3*6 | N/A | 2024-09-02 | 2027-09-01 |
| 5 | Spectrum analyzer | Agilent | N9020A | MY50530263 | 2024-01-08 | 2025-01-07 |
| 6 | Spectrum analyzer | R&S | FSV-40N | 102130 | 2024-01-08 | 2025-01-07 |
| 7 | Bilog Antenna | Schwarzbeck | VULB 9163 | 1463 | 2023-01-09 | 2025-01-08 |
| 8 | Horn Antenna | SCHWARZBECK | BBHA 9120 D | 2487 | 2023-01-09 | 2025-01-08 |
| 9 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 1 | 2023-01-09 | 2025-01-08 |



| 10 | RF Cable | Tonscend | Cable 1 | 1 | 2024-01-08 | 2025-01-07 |
|----|---------------------------------|-------------------|-----------------|---------------------|------------|------------|
| 11 | RF Cable | Tonscend | Cable 2 | 1 | 2024-01-08 | 2025-01-07 |
| 12 | RF Cable | SKET | Cable 3 | 1 | 2024-01-08 | 2025-01-07 |
| 13 | L.I.S.N.#1 | Schwarzbeck | NSLK812 7 | 1 | 2024-01-08 | 2025-01-07 |
| 14 | L.I.S.N.#2 | ROHDE&SCHWA RZ | ENV216 | 1 | 2024-01-08 | 2025-01-07 |
| 15 | Horn Antenna | SCHWARZBECK | BBHA917 0 | 1130 | 2023-01-09 | 2025-01-08 |
| 16 | Preamplifier | Tonscend | TAP1804 0048 | AP21C806126 | 2024-01-08 | 2025-01-07 |
| 17 | Variable-frequency power source | Pinhong | PH1110 | 1 | 2024-01-08 | 2025-01-07 |
| 18 | 6dB Attenuator | SKET | DC-6G | 1 | 1 | 1 |
| 19 | Antenna tower | SKT | Bk-4AT- BS | AT202104010 1-V1 | 2024-06-14 | 2025-06-13 |



4. TEST RESULTS

4.1. Evaluation Results (Evaluation)

4.1.1. Antenna Requirement

Test Requirement:

Refer to 47 CFR Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.1.1.1. Test Result

Pass

4.1.1.2. Conclusion:

The EUT antenna is FPC Antenna (2.5dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.



4.2. Radio Spectrum Matter Test Results (RF)

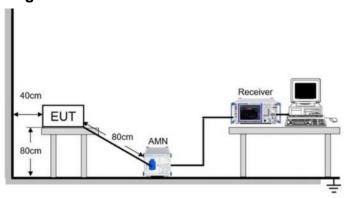
4.2.1. Conducted Emission at AC power line

| Test Requirement: | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). | | | | | | |
|-------------------|--|---|---|--|--|--|--|
| | Frequency of emission (MHz) | Conducted limit (dBµV) | | | | | |
| | | Quasi-peak | Average | | | | |
| Test Limit: | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | |
| rest Limit. | 0.5-5 | 56 | 46 | | | | |
| | 5-30 | 60 | 50 | | | | |
| | *Decreases with the logarithm of the frequency. | | | | | | |
| Test Method: | ANSI C63.10-2020 section 6.2 | | | | | | |
| Procedure: | 1. The EUT was setup according to 2. The EUT was placed on a platfor above the conducting ground plane cm to the rear of the EUT. All other other grounded conducting surface. 3. The EUT and simulators are contimpedances stabilization network (Loupling impedance for the measur 4. The peripheral devices are also concept (Refer to the block diagram of the test of the state of the excess length of the power of the excess length of the power of the excess length. The excess length of the power of the excess length. The excess length of the power of the excess length. The excess length of the power of the excess length. The excess length of the power of the excess length. The excess length of the power of the excess length of the power of the excess length. The excess length of the power of the excess length of t | m of nominal size, 1 m by a The vertical conducting places of EUT were at least nected to the main power the ISN). The LISN provides a sing equipment. Isonnected to the main powers set setup and photographs of the EUT power cord, except the EUT power cord, except the EUT and the enter of the lead to form a bettigated over the frequency the first setup and the frequency the first setup and photographs and between the EUT and the enter of the lead to form a bettigated over the frequency the first setup and | 1.5 m, raised 80 cm ane was located 40 ast 80 cm from any hrough a line 50 ohm /50uH er through a LISN. Ocept the ground to the input power the LISN receptacle bundle not exceeding range from 0.15MHz | | | | |

4.2.1.1. E.U.T. Operation

| Operating Environment: | | | | | | | | |
|------------------------|-----|-----|-----------|--------|-----------------------|---------|--|--|
| Temperature: 23.4 °C | | | Humidity: | 56.1 % | Atmospheric Pressure: | 102 kPa | | |
| Pre test mode: | TM5 | 5 | | | | | | |
| Final test mode: | | TM5 | 5 | | | | | |

4.2.1.2. Test Setup Diagram

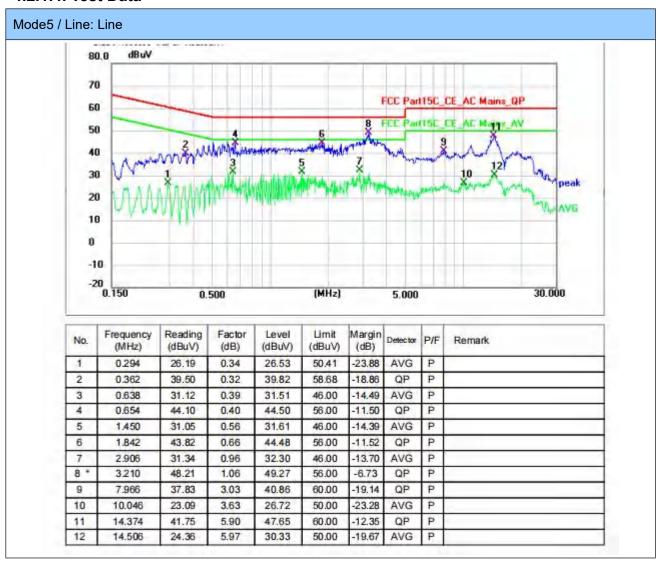




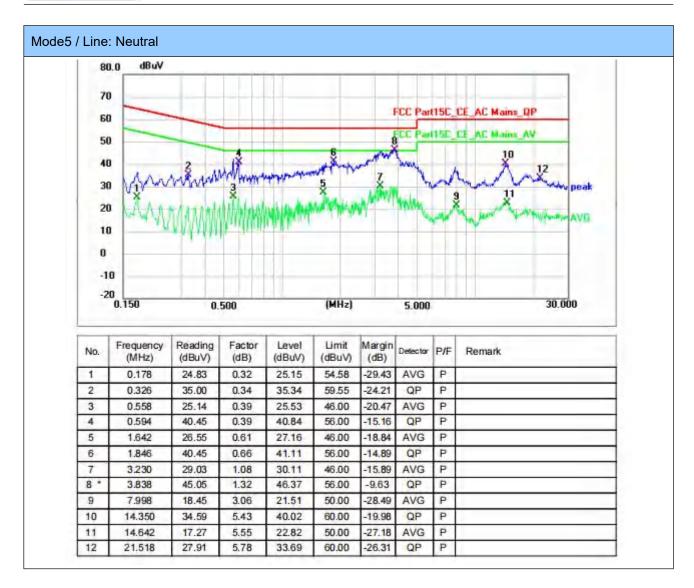
4.2.1.3. Test Result

Pass

4.2.1.4. Test Data







Note:

- 1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
- 2). Margin = Result Limit



4.2.2. 6dB Bandwidth

| Test Requirement: | 47 CFR 15.247(a)(2) |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method: | ANSI C63.10-2020, section 11.8 |
| Procedure: | 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB. |

4.2.2.1. E.U.T. Operation

| Operating Environment: | | | | | | | |
|------------------------|--|----|--------------------|--------|-----------------------|---------|--|
| Temperature: 23.4 °C | |) | Humidity: | 55.3 % | Atmospheric Pressure: | 102 kPa | |
| Pre test mode: | | TM | 1, TM2, TM3, T | ГМ4 | | | |
| Final test mode: | | TM | TM1, TM2, TM3, TM4 | | | | |

4.2.2.2. Test Setup Diagram



4.2.2.3. Test Result

Pass

4.2.2.4. Test Data

4.2.3. Maximum Conducted Output Power

| Test Requirement: | 47 CFR 15.247(b)(3) |
|-------------------|--|
| Test Limit: | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method: | ANSI C63.10-2020 section 11.9.1 |
| Procedure: | ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power |

4.2.3.1. E.U.T. Operation

| Operating Environment: | | | | | | | |
|------------------------|----|----------------|----------------|------|------------------------------|--|---------|
| Temperature: 23.4 °C | | | Humidity: | 55.3 | 55.3 % Atmospheric Pressure: | | 102 kPa |
| Pre test mode: | TM | 1, TM2, TM3, T | ГМ4 | | | | |
| Final test mode: | | TM | 1, TM2, TM3, T | ГМ4 | | | |

4.2.3.2. Test Setup Diagram



4.2.3.3. Test Result

Pass

4.2.3.4. Test Data

4.2.4. Power Spectral Density

| Test Requirement: | 47 CFR 15.247(e) |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method: | ANSI C63.10-2020, section 11.10 |
| Procedure: | ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission |

4.2.4.1. E.U.T. Operation

| Operating Environment: | | | | | | | | |
|------------------------|----------------------|----------------|----------------|------------------------------|--|---------|--|--|
| Temperature: | Temperature: 23.4 °C | | Humidity: | 55.3 % Atmospheric Pressure: | | 102 kPa | | |
| Pre test mode: | TM | 1, TM2, TM3, T | ΓM4 | | | | | |
| Final test mode: | | TM | 1, TM2, TM3, T | ГМ4 | | | | |

4.2.4.2. Test Setup Diagram



4.2.4.3. Test Result

Pass

4.2.4.4. Test Data

4.2.5. Conducted band edge and spurious emission

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(d), 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. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method: | ANSI C63.10-2020 section 11.11 |
| Procedure: | ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3 |

4.2.5.1. E.U.T. Operation

| Operating Environment: | | | | | | | | | |
|---|-------------------------------------|--|--|--|--|--|--|--|--|
| Temperature: 23.4 °C Humidity: 55.3 % Atmospheric Pressure: 102 kPa | | | | | | | | | |
| Pre test mode: TM1, TM2, TM3, TM4 | | | | | | | | | |
| Final test mode | Final test mode: TM1, TM2, TM3, TM4 | | | | | | | | |

4.2.5.2. Test Setup Diagram



4.2.5.3. Test Result

Pass

4.2.5.4. Test Data

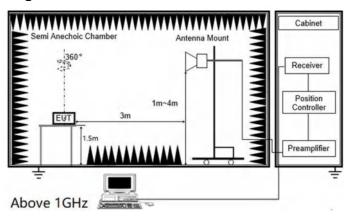
4.2.6. Radiated band edge emission

| Test Requirement: | restricted bands, as defined | In addition, radiated emissions win § 15.205(a), must also comply § 15.209(a)(see § 15.205(c)). | | | |
|-------------------|--|--|--|--|--|
| | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | | |
| | 0.490-1.705 | 24000/F(kHz) | 30 | | |
| | 1.705-30.0 | 30 | 30 | | |
| | 30-88 | 100 ** | 3 | | |
| | 88-216 | 150 ** | 3 | | |
| Toot Limits | 216-960 | 200 ** | 3 | | |
| Test Limit: | Above 960 | 500 | 3 | | |
| | 54-72 MHz, 76-88 MHz, 174 these frequency bands is pe 15.231 and 15.241. In the emission table above, The emission limits shown ir employing a CISPR quasi-pe 110–490 kHz and above 100 | is section shall not be located in to 216 MHz or 470-806 MHz. How imitted under other sections of the the tighter limit applies at the base the above table are based on meak detector except for the frequency of MHz. Radiated emission limits as employing an average detector. | ever, operation within his part, e.g., §§ nd edges. heasurements ency bands 9–90 kHz, in these three bands | | |
| Test Method: | ANSI C63.10-2020 section 6.10 | | | | |
| Procedure: | The EUT is placed on a tutable is rotated 360 degrees level. The EUT waspositioned s meters. The antenna is scanned fremission level. Thisis repeat antenna. In order to find the manipulated according to ANS. Use the following spectruma) Span shall wide enough to Set RBW=1MHz, VBW=3 Trace=max hold for Peak meters. | o fully capture the emission being MHz for >1GHz, Sweep time=au easurement use duty cycle correction factor n | maximum emission na to the EUT was 3 ut the maximum al polarization of the erface cables were ment. g measured to, Detector=peak, | | |

4.2.6.1. E.U.T. Operation

| Operating Environment: | | | | | | | | | | |
|---|----|----------------|-----|--|--|--|--|--|--|--|
| Temperature: 23.4 °C Humidity: 56.1 % Atmospheric Pressure: 102 kPa | | | | | | | | | | |
| Pre test mode: TM1, TM2, TM3, TM4 | | | | | | | | | | |
| Final test mode |): | TM1, TM2, TM3, | TM4 | | | | | | | |

4.2.6.2. Test Setup Diagram



4.2.6.3. Test Result

Pass



4.2.6.4. Test Data

Have pre-scan all test mode, found 802.11b mode which it was worst case, so only show the worst case's data on this report.

| Test chan | Test channel:CH1 | | | | | | | | | | | |
|----------------|-------------------|--------------------------|-------------------------|---------------------------|------------------------------------|-----------------|-----------------------|----------------|---------|------------|--|--|
| Freq. (MHz) | Reading (dBuv) | Ant. Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correc tion Factor (dB/m) | Level (dBuv) | Limit (dBu V/m) | Margin (dB) | Remark | Polarity | | |
| 2390.00 | 70.54 | 28.62 | 4.08 | 38.62 | -5.92 | 64.62 | 74 | 9.38 | Peak | Horizontal | | |
| 2390.00 | 51.03 | 28.62 | 4.08 | 38.62 | -5.92 | 45.11 | 54 | 8.89 | Average | Horizontal | | |
| 2390.00 | 68.68 | 28.62 | 4.08 | 38.62 | -5.92 | 62.76 | 74 | 11.24 | Peak | Vertical | | |
| 2390.00 | 50.18 | 28.62 | 4.08 | 38.62 | -5.92 | 44.26 | 54 | 9.74 | Average | Vertical | | |

| Test chan | Test channel:CH11 | | | | | | | | | | | |
|----------------|-------------------|--------------------------|-------------------------|---------------------------|------------------------------------|-----------------|-----------------------|----------------|---------|------------|--|--|
| Freq. (MHz) | Reading (dBuv) | Ant. Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correc tion Factor (dB/m) | Level (dBuv) | Limit (dBu V/m) | Margin (dB) | Remark | Polarity | | |
| 2483.50 | 70.01 | 29.45 | 3.91 | 40.17 | -6.81 | 63.20 | 74 | 10.80 | Peak | Horizontal | | |
| 2483.50 | 49.42 | 29.45 | 3.91 | 40.17 | -6.81 | 42.61 | 54 | 11.39 | Average | Horizontal | | |
| 2483.50 | 68.08 | 29.45 | 3.91 | 40.17 | -6.81 | 61.27 | 74 | 12.73 | Peak | Vertical | | |
| 2483.50 | 50.33 | 29.45 | 3.91 | 40.17 | -6.81 | 43.52 | 54 | 10.48 | Average | Vertical | | |



4.2.7. Radiated Spurious Emission (below 1GHz)

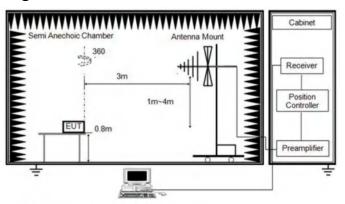
| Test Requirement: | restricted bands, as defined | In addition, radiated emissions whin § 15.205(a), must also comply 15.209(a)(see § 15.205(c)).` | | | |
|-------------------|---|---|---|--|--|
| | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | | |
| | 0.490-1.705 | 24000/F(kHz) | 30 | | |
| | 1.705-30.0 | 30 | 30 | | |
| | 30-88 | 100 ** | 3 | | |
| | 88-216 | 150 ** | 3 | | |
| Total Contr. | 216-960 | 200 ** | 3 | | |
| Test Limit: | Above 960 | 500 | 3 | | |
| | 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. | | | | |
| Test Method: | ANSI C63.10-2020 section 6 | 5.6.4 | | | |
| Procedure: | 2. The EUT is placed on a tu GHz, and 1.5 m for above 1 determine the position of the 3. The EUT was set 3 meter the top of a variable height a 4. For each suspected emission tune the Antenna tower (from degrees) to find the maximu for the test in order to get be 5. Set to the maximum powe 6. Use the following spectrum a) Span shall wide enough to b) RBW=120 kHz, VBW=300 Trace=max hold; If the emission level of the Ethe applicable limit, the peak | s from the receiving antenna, whi intenna tower. sion, the EUT was arranged to its in 1 m to 4 m) and turntable (from m reading. A pre-amp and a high tter signal level to comply with the er setting and enable the EUT tran | e ground for below 1 0 degrees to ch was mounted on worst case and then 0 degree to 360 pass filter are used e guidelines. nsmit continuously. g measured; ction=peak, or is 3 dB lower than Otherwise, the | | |

4.2.7.1. E.U.T. Operation

| Operating Env | Operating Environment: | | | | | | | | | |
|---|------------------------|----|----------------|----------|--|--|--|--|--|--|
| Temperature: 23.4 °C Humidity: 56.1 % Atmospheric Pressure: 102 kPa | | | | | | | | | | |
| Pre test mode: TM1, TM2, TM3, TM4, TM5 | | | | | | | | | | |
| Final test mode | e: | TM | 1, TM2, TM3, T | ΓM4, TM5 | | | | | | |



4.2.7.2. Test Setup Diagram



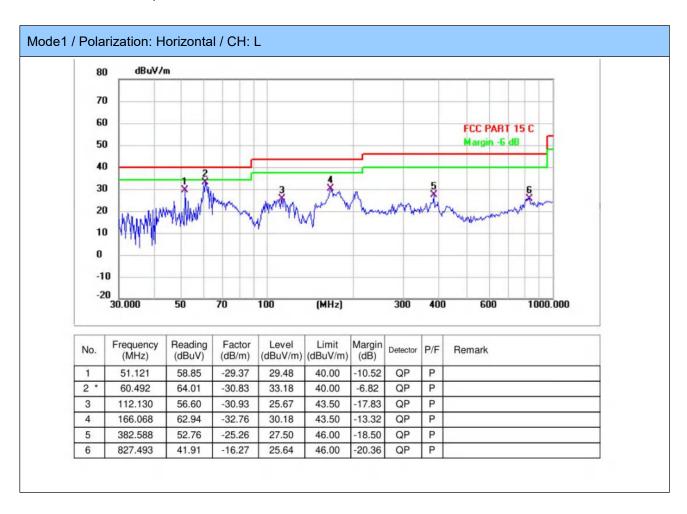
Below 1 GHz and above 30 MHz

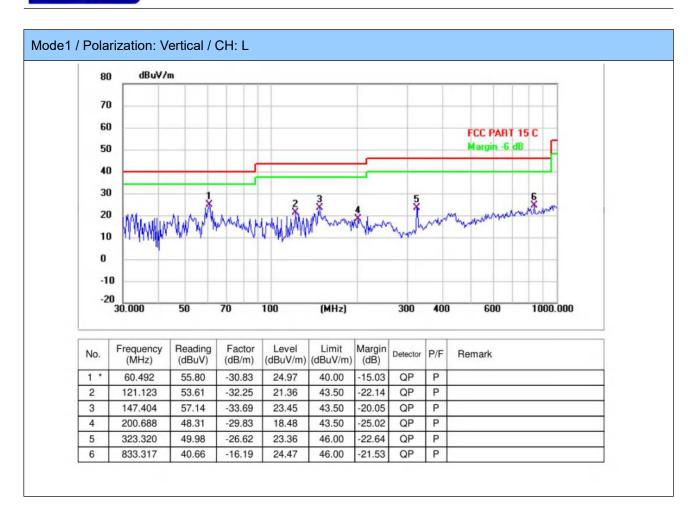
4.2.7.3. Test Result

Pass

4.2.7.4. Test Data

Have pre-scan all test channel, found CH1(802.11b) mode which it was worst case, so only show the worst case's data on this report.





Note:

1) For 9 kHz ~ 30 MHz Measurement

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

- 2) Level= Reading + Factor; Factor = Antenna Factor + Cable Loss- Preamp Factor
- 3) Margin = Limit Level

4.2.8. Radiated Spurious Emission (Above 1GHz)

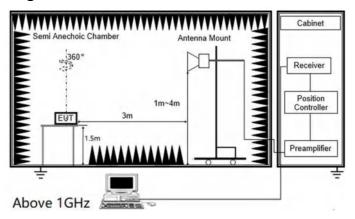
| Test Requirement: | | ons which fall in the restricted band y with the radiated emission limits | |
|-------------------|--|---|---|
| | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| | 0.009-0.490 | 2400/F(kHz) | 300 |
| | 0.490-1.705 | 24000/F(kHz) | 30 |
| | 1.705-30.0 | 30 | 30 |
| | 30-88 | 100 ** | 3 |
| | 88-216 | 150 ** | 3 |
| Total Contr. | 216-960 | 200 ** | 3 |
| Test Limit: | Above 960 | 500 | 3 |
| | these frequency bands is portion 15.231 and 15.241. In the emission table above The emission limits shown in employing a CISPR quasi-part 110–490 kHz and above 10 | 4-216 MHz or 470-806 MHz. Howe ermitted under other sections of the , the tighter limit applies at the bar n the above table are based on m leak detector except for the frequency 00 MHz. Radiated emission limits s employing an average detector. | nis part, e.g., §§ and edges. easurements ency bands 9–90 kHz, in these three bands |
| Test Method: | ANSI C63.10-2020 section | 6.6.4 | |
| Procedure: | 2. The EUT is placed on a t GHz, and 1.5 m for above 1 determine the position of the 3. The EUT was set 3 mete the top of a variable height 4. For each suspected emistune the Antenna tower (frodegrees) to find the maximular for the test in order to get be 5. Set to the maximum pow 6. Use the following spectrum a) Span shall wide enough b) Set RBW=1MHz, VBW=3 Trace=max hold for Peak m | rs from the receiving antenna, whi antenna tower. Ision, the EUT was arranged to its m 1 m to 4 m) and turntable (from a reading. A pre-amp and a high etter signal level to comply with the er setting and enable the EUT transmanalyzer settings to fully capture the emission being BMHz for >1GHz, Sweep time=aut easurement use duty cycle correction factor m | e ground for below 1 0 degrees to ch was mounted on worst case and then 0 degree to 360 pass filter are used e guidelines. nsmit continuously. g measured; to, Detector=peak, |

4.2.8.1. E.U.T. Operation

| Operating Environment: | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| Temperature: 23.4 °C Humidity: 56.1 % Atmospheric Pressure: 102 kPa | | | | | | | | | | |
| Pre test mode: TM1, TM2, TM3, TM4, TM5 | | | | | | | | | | |
| Final test mode: TM1, TM2, TM3, TM4, TM5 | | | | | | | | | | |



4.2.8.2. Test Setup Diagram



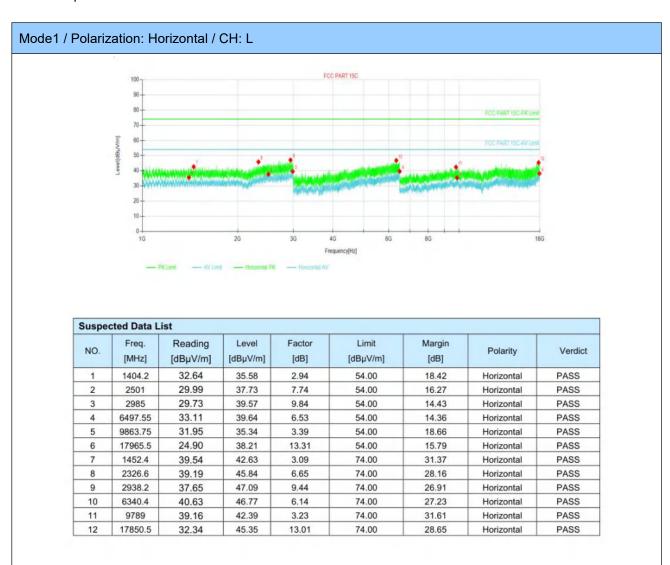
4.2.8.3. Test Result

Pass

4.2.8.4. Test Data

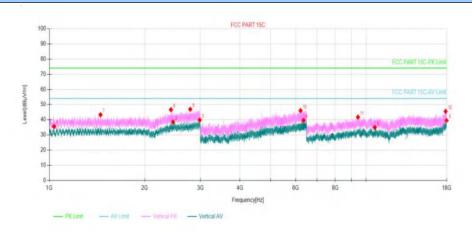
Note:

- 1. In order to prevent the amplifier from saturating, we add a band-stop filter that filters out the main frequency.
- 2.18GHz-25GHz is the background of the site, there is no radiated spurious.
- 3.Have pre-scan all test mode, found 802.11b which it was worst case, so only show the worst case's data on this report.





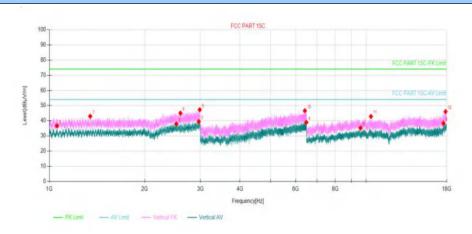
Mode1 / Polarization: Vertical / CH: L



| NO. | Freq. [MHz] | Reading [dBµV/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Polarity | Verdict |
|-----|----------------|------------------|-------------------|----------------|-------------------|----------------|----------|---------|
| 1 | 1035 | 35.25 | 35.55 | 0.30 | 54.00 | 18.45 | Vertical | PASS |
| 2 | 2459 | 31.04 | 38.47 | 7.43 | 54.00 | 15.53 | Vertical | PASS |
| 3 | 2984.8 | 30.00 | 39.84 | 9.84 | 54.00 | 14.16 | Vertical | PASS |
| 4 | 6354.75 | 33.38 | 39.62 | 6.24 | 54.00 | 14.38 | Vertical | PASS |
| 5 | 10667.6 | 30.52 | 34.92 | 4.40 | 54.00 | 19.08 | Vertical | PASS |
| 6 | 17975.8 | 26.19 | 39.57 | 13.38 | 54.00 | 14.43 | Vertical | PASS |
| 7 | 1451 | 40.20 | 43.29 | 3.09 | 74.00 | 30.71 | Vertical | PASS |
| 8 | 2421.8 | 39.50 | 46.65 | 7.15 | 74.00 | 27.35 | Vertical | PASS |
| 9 | 2787 | 38.57 | 46.92 | 8.35 | 74.00 | 27.08 | Vertical | PASS |
| 10 | 6216.5 | 40.36 | 46.04 | 5.68 | 74.00 | 27.96 | Vertical | PASS |
| 11 | 9434.8 | 38.67 | 41.76 | 3.09 | 74.00 | 32.24 | Vertical | PASS |
| 12 | 17853.9 | 32.57 | 45.57 | 13.00 | 74.00 | 28.43 | Vertical | PASS |



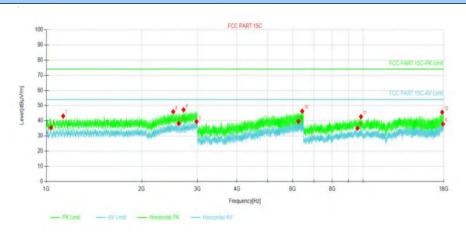
Mode1 / Polarization: Horizontal / CH: M



| NO. | Freq. [MHz] | Reading [dBµV/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Polarity | Verdict |
|-----|----------------|------------------|-------------------|----------------|-------------------|----------------|----------|---------|
| 1 | 1056.8 | 36.10 | 36.66 | 0.56 | 54.00 | 17.34 | Vertical | PASS |
| 2 | 2518.4 | 30.28 | 37.93 | 7.65 | 54.00 | 16.07 | Vertical | PASS |
| 3 | 2964.8 | 29.82 | 39.49 | 9.67 | 54.00 | 14.51 | Vertical | PASS |
| 4 | 6481.1 | 32.43 | 38.96 | 6.53 | 54.00 | 15.04 | Vertical | PASS |
| 5 | 9609.6 | 32.09 | 35.23 | 3.14 | 54.00 | 18.77 | Vertical | PASS |
| 6 | 17576.8 | 26.33 | 38.33 | 12.00 | 54.00 | 15.67 | Vertical | PASS |
| 7 | 1346.2 | 40.32 | 42.97 | 2.65 | 74.00 | 31.03 | Vertical | PASS |
| 8 | 2594 | 37.76 | 45.05 | 7.29 | 74.00 | 28.95 | Vertical | PASS |
| 9 | 2985.6 | 37.43 | 47.28 | 9.85 | 74.00 | 26.72 | Vertical | PASS |
| 10 | 6413.9 | 40.09 | 46.62 | 6.53 | 74.00 | 27.38 | Vertical | PASS |
| 11 | 10369.7 | 38.66 | 42.82 | 4.16 | 74.00 | 31.18 | Vertical | PASS |
| 12 | 17848.2 | 33.03 | 46.05 | 13.02 | 74.00 | 27.95 | Vertical | PASS |



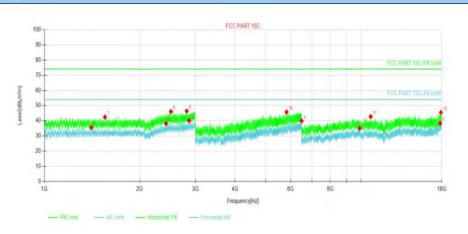
Mode1 / Polarization: Vertical / CH: M



| NO. | Freq. | Reading [dBµV/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] 54.00 | Margin | Polarity | Verdict |
|-----|---------|---------------------|-------------------|----------------|----------------------------|--------|------------|---------|
| | [MHz] | | | | | [dB] | | |
| 1 | 1034.6 | 35.12 | 35.41 | | | 18.59 | | |
| 2 | 2620 | 30.87 | 38.24 | 7.37 | 54.00 | 15.76 | Horizontal | PASS |
| 3 | 2982.2 | 29.66 | 39.48 | 9.82 | 54.00 | 14.52 | Horizontal | PASS |
| 4 | 6254.3 | 33.83 | 39.60 | 5.77 | 54.00 | 14.40 | Horizontal | PASS |
| 5 | 9609.6 | 31.90 | 35.04 | 3.14 | 54.00 | 18.96 | Horizontal | PASS |
| 6 | 17910.3 | 24.88 | 37.84 | 12.96 | 54.00 | 16.16 | Horizontal | PASS |
| 7 | 1130.4 | 41.80 | 43.10 | 1.30 | 74.00 | 30.90 | Horizontal | PASS |
| 8 | 2515.6 | 38.35 | 46.02 | 7.67 | 74.00 | 27.98 | Horizontal | PASS |
| 9 | 2713.4 | 39.35 | 47.23 | 7.88 | 74.00 | 26.77 | Horizontal | PASS |
| 10 | 6428.25 | 39.82 | 46.35 | 6.53 | 74.00 | 27.65 | Horizontal | PASS |
| 11 | 9855.7 | 39.33 | 42.70 | 3.37 | 74.00 | 31.30 | Horizontal | PASS |
| 12 | 17794.1 | 32.58 | 45.63 | 13.05 | 74.00 | 28.37 | Horizontal | PASS |



Mode1 / Polarization: Horizontal / CH: H



| NO. | Freq. [MHz] | Reading [dBµV/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Polarity | Verdict |
|----------|----------------|------------------|-------------------|----------------|-------------------|----------------|------------|---------|
| 1 1407.8 | | 32.57 | 35.52 | 2.95 | 54.00 | 18.48 | Horizontal | PASS |
| 2 | 2423 | 30.94 | 38.10 | 7.16 | 54.00 | 15.90 | Horizontal | PASS |
| 3 | 2865.8 | 31.19 | 40.07 | 8.88 | 54.00 | 13.93 | Horizontal | PASS |
| 4 | 6494.75 | 33.41 | 39.94 | 6.53 | 54.00 | 14.06 | Horizontal | PASS |
| 5 | 9891.35 | 31.60 | 35.05 | 3.45 | 54.00 | 18.95 | Horizontal | PASS |
| 6 | 17798.7 | 25.23 | 38.35 | 13.12 | 54.00 | 15.65 | Horizontal | PASS |
| 7 | 1554.4 | 39.21 | 42.44 | 3.23 | 74.00 | 31.56 | Horizontal | PASS |
| 8 | 2511.2 | 38.42 | 46.11 | 7.69 | 74.00 | 27.89 | Horizontal | PASS |
| 9 | 2816.2 | 37.86 | 46.40 | 8.54 | 74.00 | 27.60 | Horizontal | PASS |
| 10 | 5820.65 | 41.13 | 45.76 | 4.63 | 74.00 | 28.24 | Horizontal | PASS |
| 11 | 10732 | 38.16 | 42.74 | 4.58 | 74.00 | 31.26 | Horizontal | PASS |
| 12 | 17896.5 | 32.64 | 45.54 | 12.90 | 74.00 | 28.46 | Horizontal | PASS |

Mode1 / Polarization: Vertical / CH: H

| Suspected Data List | | | | | | | | | |
|---------------------|----------------|------------------|-------------------|----------------|-------------------|----------------|----------|---------|--|
| NO. | Freq. [MHz] | Reading [dBµV/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Polarity | Verdict | |
| 1 | 1597.6 | 32.08 | 35.31 | 3.23 | 54.00 | 18.69 | Vertical | PASS | |
| 2 | 2487.4 | 30.97 | 38.62 | 7.65 | 54.00 | 15.38 | Vertical | PASS | |
| 3 | 2935.2 | 30.32 | 39.74 | 9.42 | 54.00 | 14.26 | Vertical | PASS | |
| 4 | 6428.95 | 32.39 | 38.92 | 6.53 | 54.00 | 15.08 | Vertical | PASS | |
| 5 | 9778.65 | 32.00 | 35.22 | 3.22 | 54.00 | 18.78 | Vertical | PASS | |
| 6 | 17875.8 | 26.12 | 39.07 | 12.95 | 54.00 | 14.93 | Vertical | PASS | |
| 7 | 1303.6 | 40.84 | 43.26 | 2.42 | 74.00 | 30.74 | Vertical | PASS | |
| 8 | 2487.2 | 37.99 | 45.63 | 7.64 | 74.00 | 28.37 | Vertical | PASS | |
| 9 | 2979.8 | 37.76 | 47.56 | 9.80 | 74.00 | 26.44 | Vertical | PASS | |
| 10 | 6416.35 | 39.86 | 46.39 | 6.53 | 74.00 | 27.61 | Vertical | PASS | |
| 11 | 9832.7 | 38.28 | 41.60 | 3.32 | 74.00 | 32.40 | Vertical | PASS | |
| 12 | 17906.8 | 32.58 | 45.52 | 12.94 | 74.00 | 28.48 | Vertical | PASS | |

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit (54dBuV/m) for above 1GHz.





5. TEST SETUP PHOTOS

Conducted Emission at AC power line



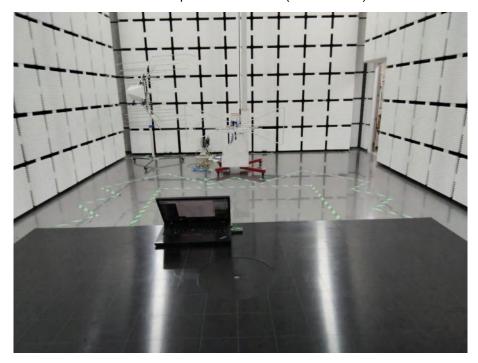
Radiated band edge emission Radiated Spurious Emission (Above 1GHz)







Radiated Spurious Emission (below 1GHz)



6. Appendix Report



Appendix Report

Report No.: CISRR24120605002

Test Engineer: Mark Fu

Supervised by: Rory Huang



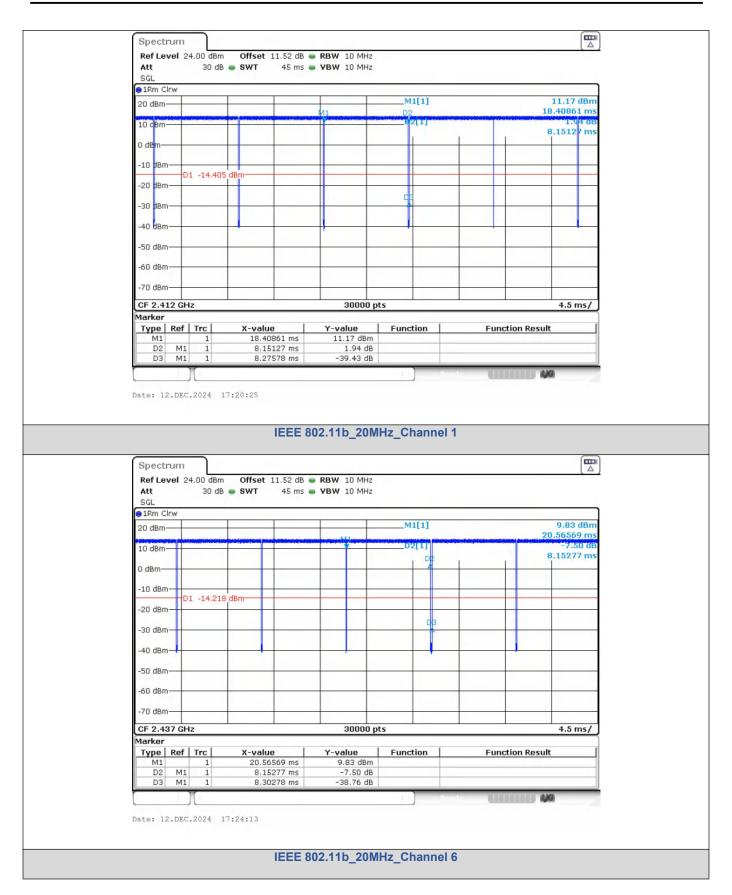
Duty Cycle

Test Result

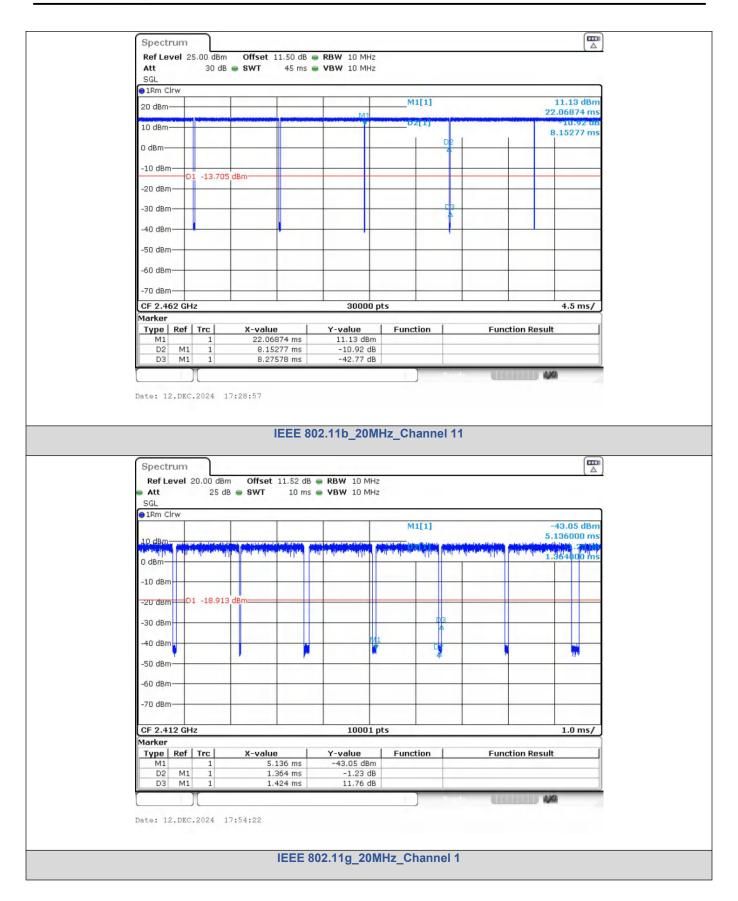
| Mode | Data rates | Channel | Antenna | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/Т |
|-----------------|---------------|---------|---------|-----------------|----------------|----------------------|---------------------------|---------------------------------|--------|
| | 1 | 1 | 1 | 8.151 | 8.276 | 98.50 | 0.9850 | 0.0656 | 0.1227 |
| IEEE 802.11b | | 6 | | 8.153 | 8.303 | 98.19 | 0.9819 | 0.0793 | 0.1227 |
| | | 11 | | 8.153 | 8.276 | 98.51 | 0.9851 | 0.0652 | 0.1227 |
| | | 1 | | 1.364 | 1.424 | 95.79 | 0.9579 | 0.1868 | 0.7331 |
| IEEE 802.11g | | 6 | | 1.364 | 1.478 | 92.29 | 0.9229 | 0.3485 | 0.7331 |
| | | 11 | | 1.364 | 1.424 | 95.79 | 0.9579 | 0.1868 | 0.7331 |
| , FFF | MCS 0 | 1 | | 1.276 | 1.444 | 88.37 | 0.8837 | 0.537 | 0.7837 |
| 802.11n_20 | | 6 | | 1.276 | 1.399 | 91.21 | 0.9121 | 0.3996 | 0.7837 |
| | | 11 | | 1.276 | 1.417 | 90.05 | 0.9005 | 0.4552 | 0.7837 |
| | | 3 | | 0.634 | 0.723 | 87.76 | 0.8776 | 0.567 | 1.5773 |
| 802.11n_40 | | 6 | | 0.630 | 0.922 | 68.33 | 0.6833 | 1.6539 | 1.5873 |
| | | 9 | | 0.630 | 0.890 | 70.79 | 0.7079 | 1.5003 | 1.5873 |

Test Graphs

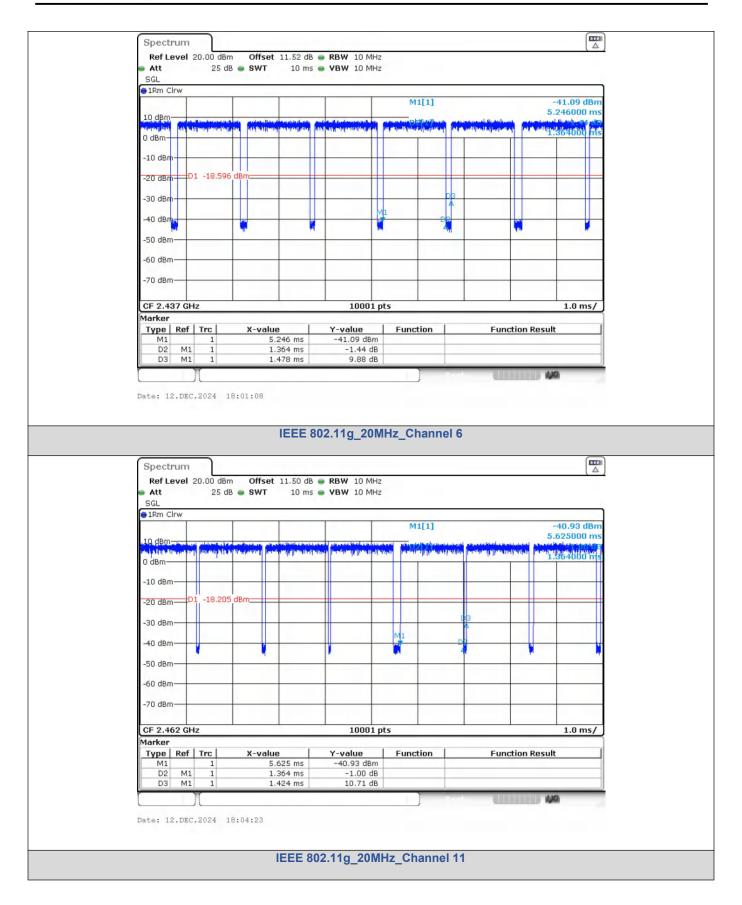




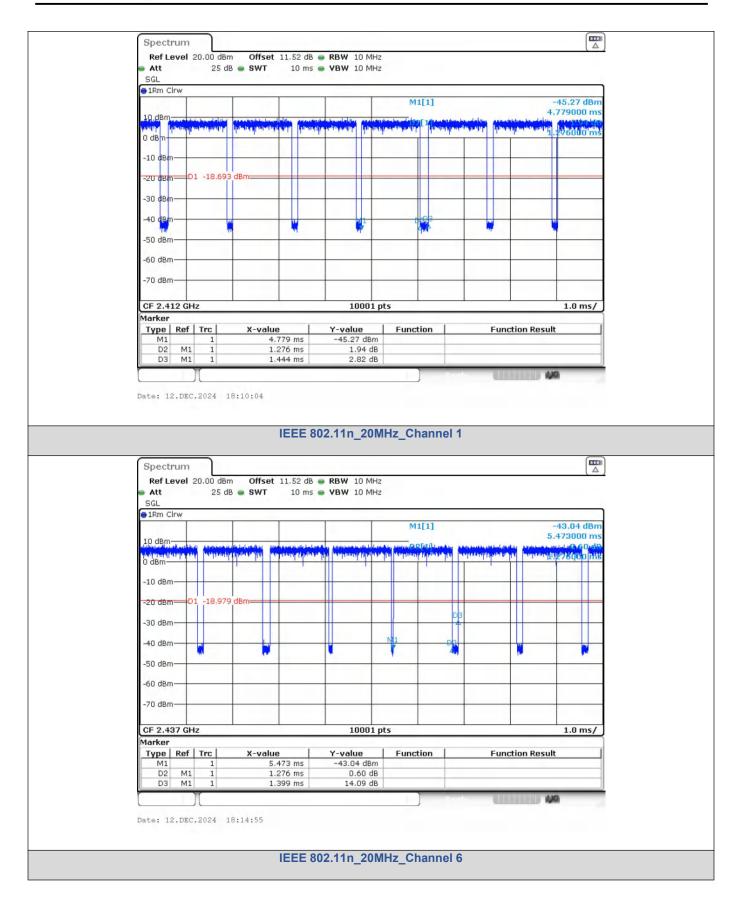




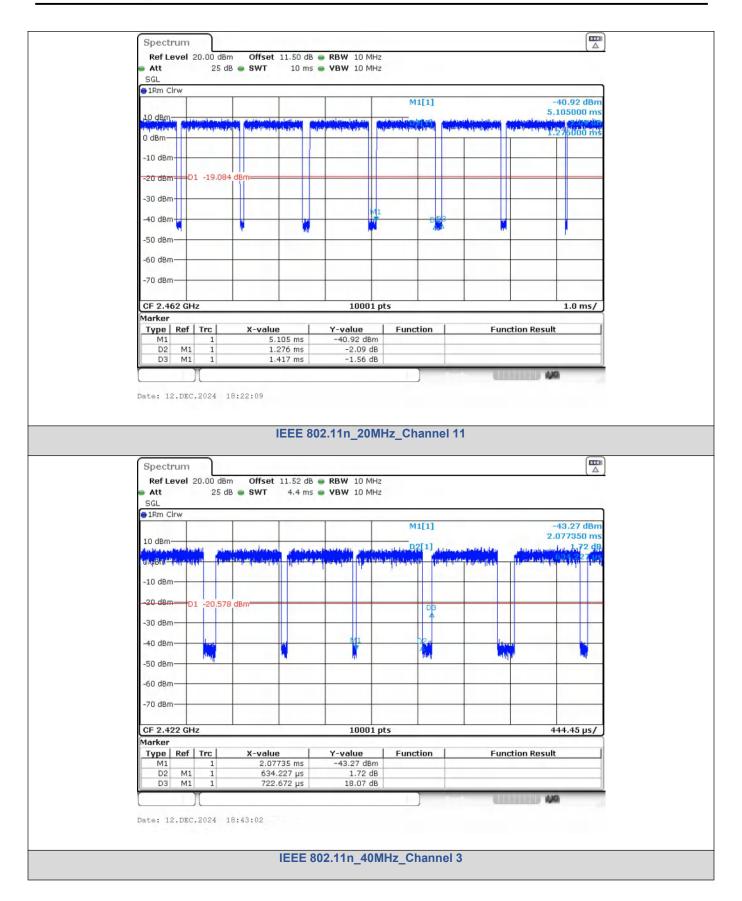




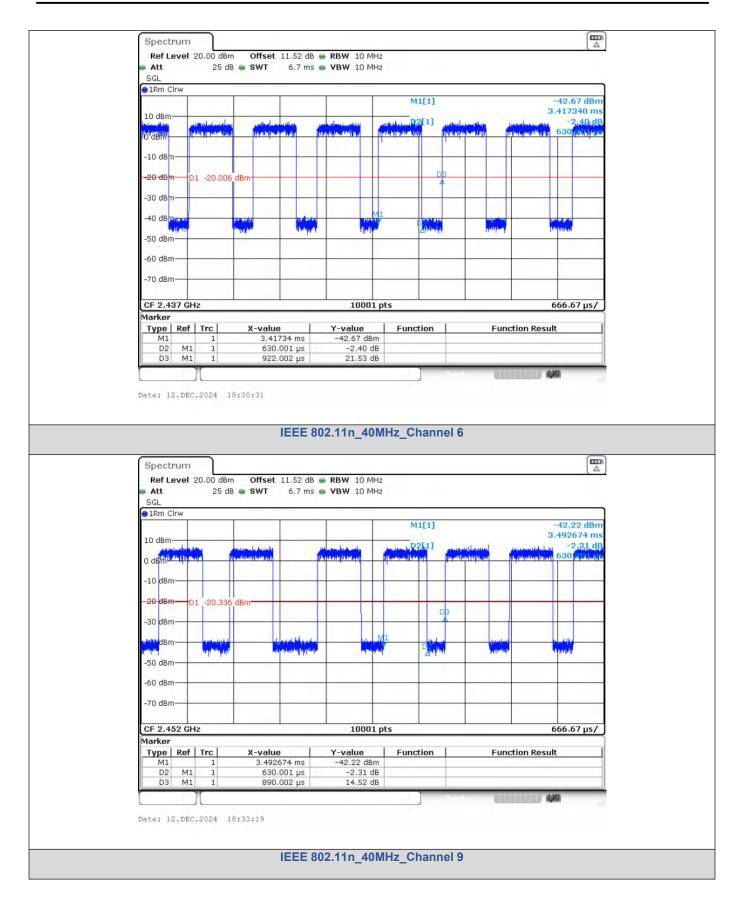












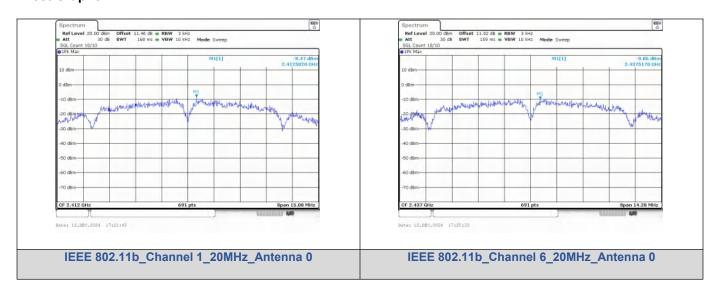


Power Spectral Density

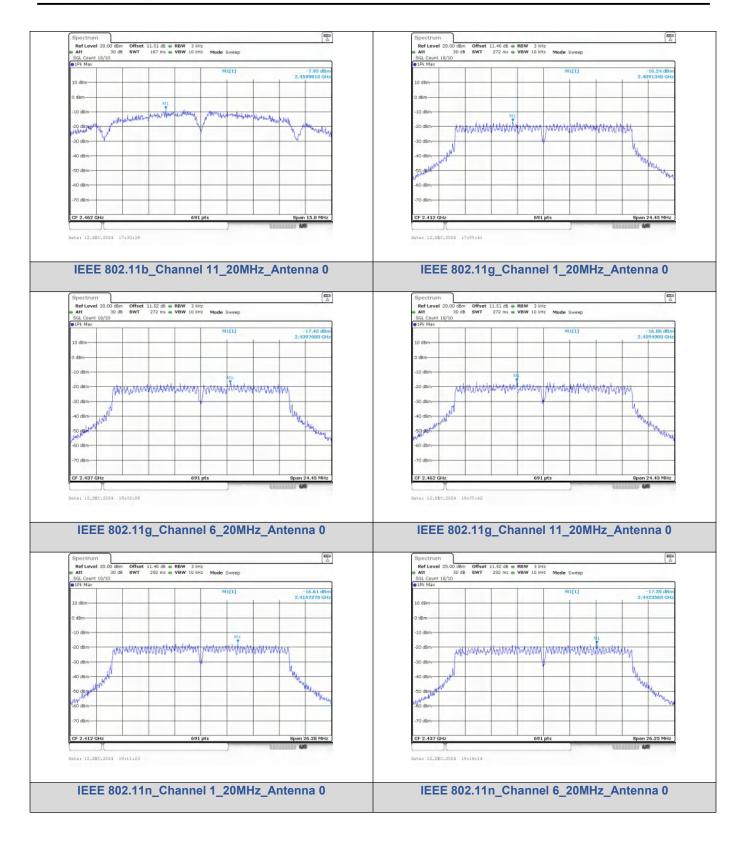
Test Result

| Mode | Channel | PSD (dBm/3kHz) Ant. 0 | Limit (dBm/3kHz) | Result |
|-----------------|---------|-----------------------------|---------------------|--------|
| | 1 | -8.470 | | PASS |
| IEEE 802.11b | 6 | -9.860 | | PASS |
| | 11 | -7.930 | | PASS |
| IEEE 802.11g | 1 | -16.240 | | PASS |
| | 6 | -17.430 | | PASS |
| | 11 | -16.060 | ≤8 | PASS |
| | 1 | -16.610 | | PASS |
| IEEE 802.11n_20 | 6 | -17.390 | | PASS |
| | 11 | -17.010 | | PASS |
| IEEE 802.11n_40 | 3 | -19.820 | | PASS |
| | 6 | -19.130 | | PASS |
| | 9 | -19.380 | | PASS |

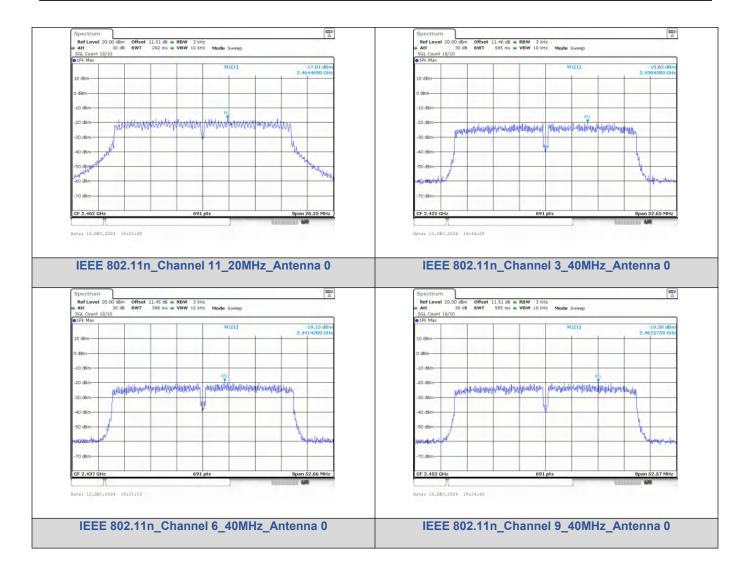
Test Graphs













Conducted Peak Output Power

Test Result

Conducted Output Power

| Mode | Channel | Ant. 0 (dBm) | Limit (dBm) | Result |
|-----------------|---------|-----------------|----------------|--------|
| | 1 | 17.74 | ≤30 | PASS |
| IEEE 802.11b | 6 | 17.08 | ≤30 | PASS |
| | 11 | 17.49 | ≤30 | PASS |
| | 1 | 16.83 | ≤30 | PASS |
| IEEE 802.11g | 6 | 16.15 | ≤30 | PASS |
| | 11 | 16.66 | ≤30 | PASS |
| | 1 | 16.77 | ≤30 | PASS |
| IEEE 802.11n_20 | 6 | 16.65 | ≤30 | PASS |
| | 11 | 16.63 | ≤30 | PASS |
| | 3 | 16.57 | ≤30 | PASS |
| IEEE 802.11n_40 | 6 | 16.99 | ≤30 | PASS |
| | 9 | 16.57 | ≤30 | PASS |

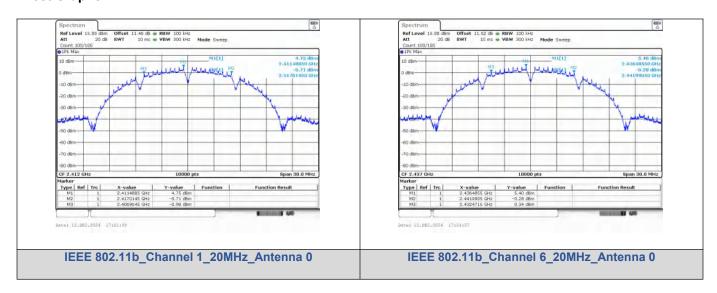


6dB Bandwidth

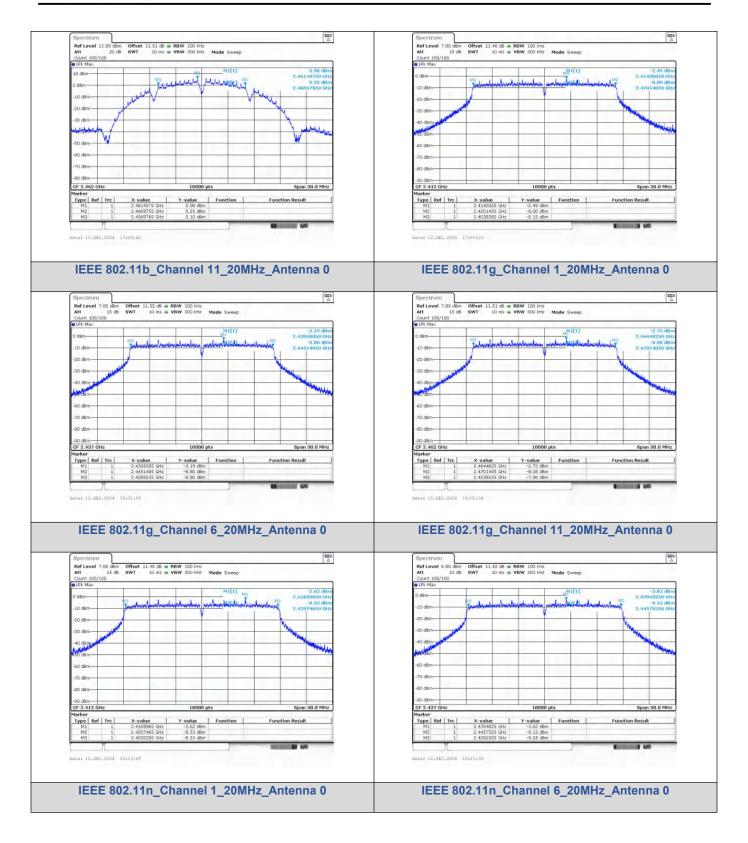
Test Result

| Mode | Channel | Ant. | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|--------------------|---------|------|------------------------------|----------------------------|----------------|--------|
| IEEE 802.11b | 1 | | 2412 | 10.05 | | PASS |
| | 6 | | 2437 | 9.520 | | PASS |
| | 11 | | 2462 | 10.00 | | PASS |
| IEEE 802.11g | 1 | | 2412 | 16.30 | | PASS |
| | 6 | 0 | 2437 | 16.30 | ≥0.5 | PASS |
| | 11 | | 2462 | 16.29 | | PASS |
| IEEE 802.11n_20 | 1 | | 2412 | 17.52 | | PASS |
| | 6 | | 2437 | 17.50 | | PASS |
| | 11 | | 2462 | 17.50 | | PASS |
| IEEE 802.11n_40 | 3 | | 2422 | 35.10 | | PASS |
| | 6 | | 2437 | 35.11 | | PASS |
| | 9 | | 2452 | 35.05 | | PASS |

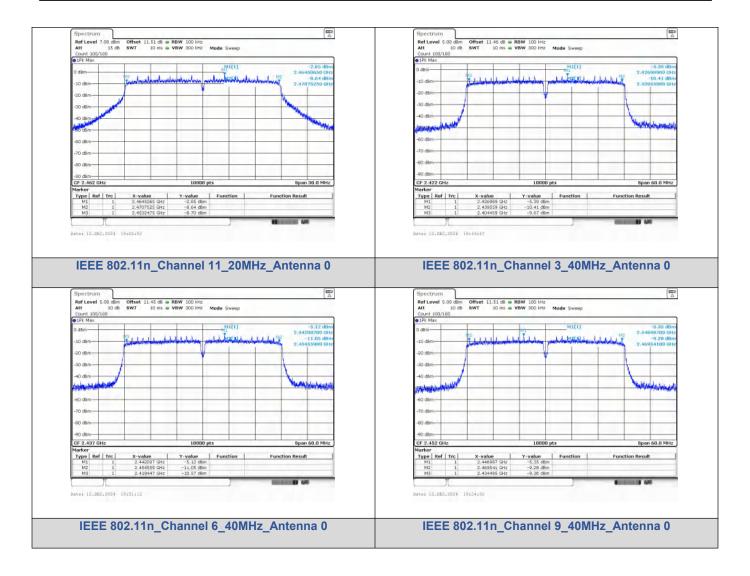
Test Graphs













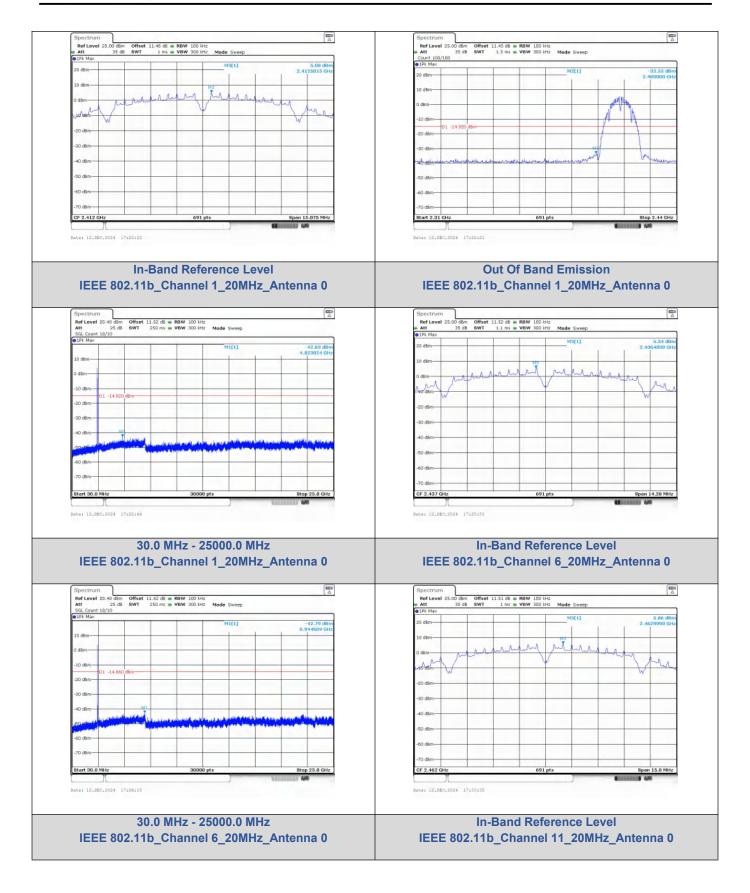
Conducted Out Of Band Emission

Test Result

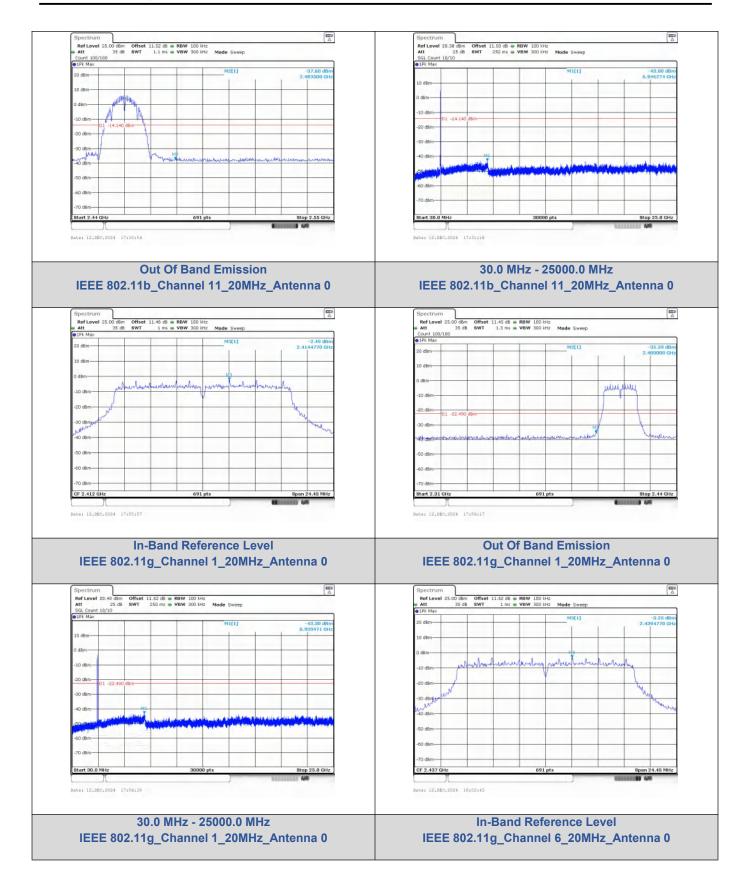
| Mode | Channel | Ant. | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|--------------------|---------|------|---------------------------------------|-----------------------------------|----------------|--------------------|--------|
| IEEE | 1 | | 2400.00 | -33.550 | -14.92 | -18.630 | PASS |
| | | | 4823.82 | -42.693 | -14.92 | -27.773 | PASS |
| 802.11b | 6 | | 6944.61 | -42.792 | -14.66 | -28.132 | PASS |
| | 11 | 0 | 2483.50 | -37.600 | -14.14 | -23.460 | PASS |
| | | | 6946.27 | -42.999 | -14.14 | -28.859 | PASS |
| | 1 | | 2400.00 | -35.590 | -22.49 | -13.100 | PASS |
| IEEE | | | 6920.47 | -43.300 | -22.49 | -20.810 | PASS |
| 802.11g | 6 | | 6894.67 | -42.179 | -23.25 | -18.929 | PASS |
| | 11 | | 1779.98 | -40.133 | -22.74 | -17.393 | PASS |
| | | | 2483.50 | -38.760 | -22.74 | -16.020 | PASS |
| | 1 | | 2400.00 | -35.010 | -22.38 | -12.630 | PASS |
| IEEE | | | 5904.19 | -42.625 | -22.38 | -20.245 | PASS |
| IEEE 802.11n_20 | 6 | | 6957.93 | -43.189 | -23.45 | -19.739 | PASS |
| | 11 | | 2483.50 | -38.660 | -22.61 | -16.050 | PASS |
| | | | 22085.6 | -43.693 | -22.61 | -21.083 | PASS |
| IEEE 802.11n_40 | 3 | | 2391.93 | -36.642 | -25.23 | -11.412 | PASS |
| | | | 2400.00 | -38.780 | -25.23 | -13.550 | PASS |
| | | | 6294.60 | -43.178 | -25.23 | -17.948 | PASS |
| | 6 | | 6947.11 | -43.353 | -24.8 | -18.553 | PASS |
| | 9 | | 2483.50 | -37.190 | -25.27 | -11.920 | PASS |
| | | | 5927.50 | -43.178 | -25.27 | -17.908 | PASS |

Test Graphs

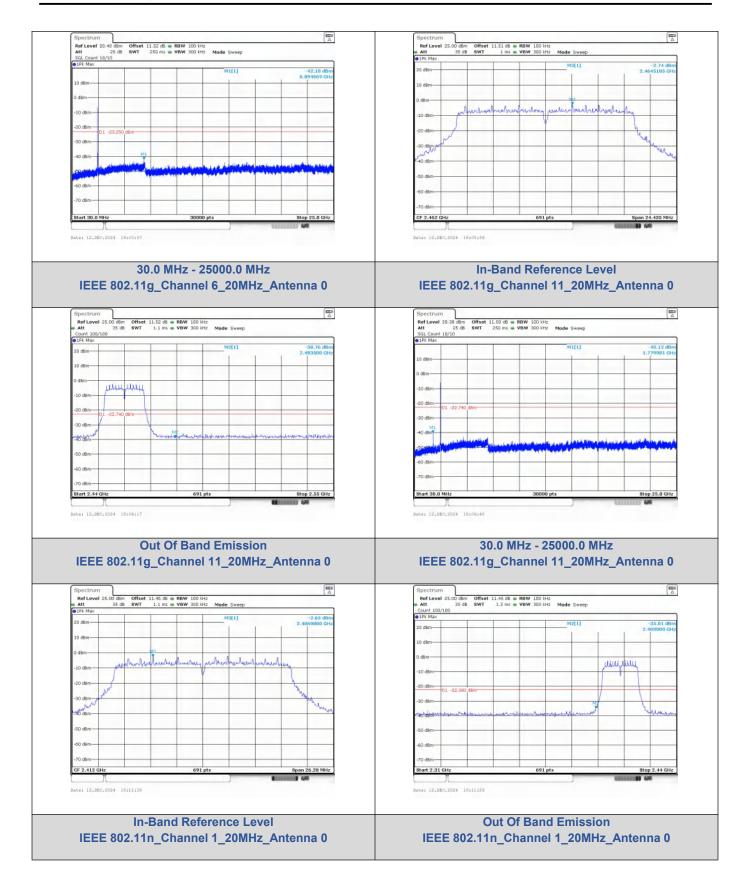




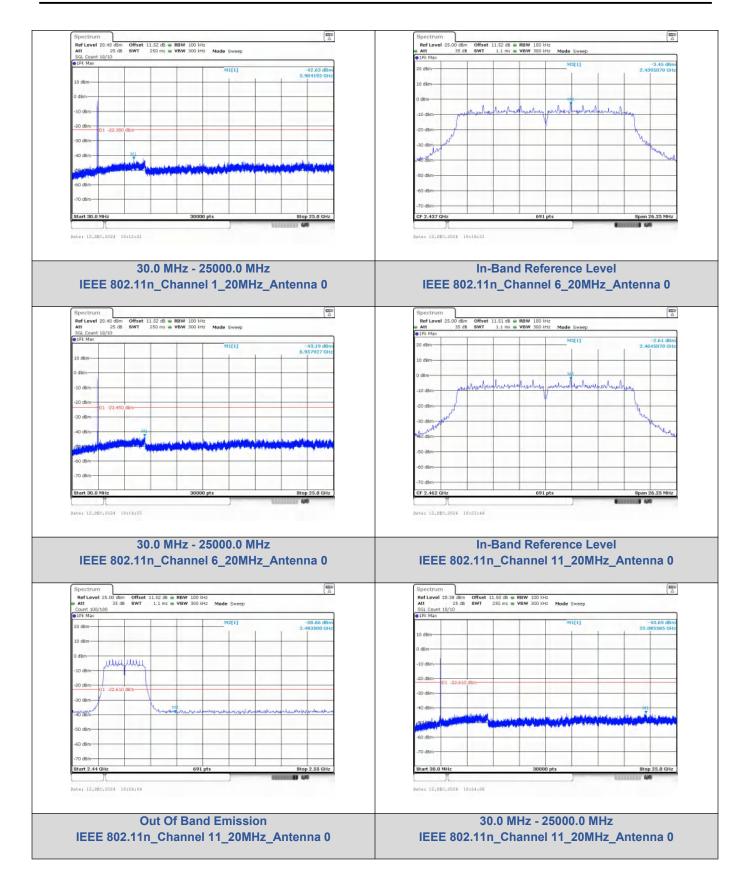




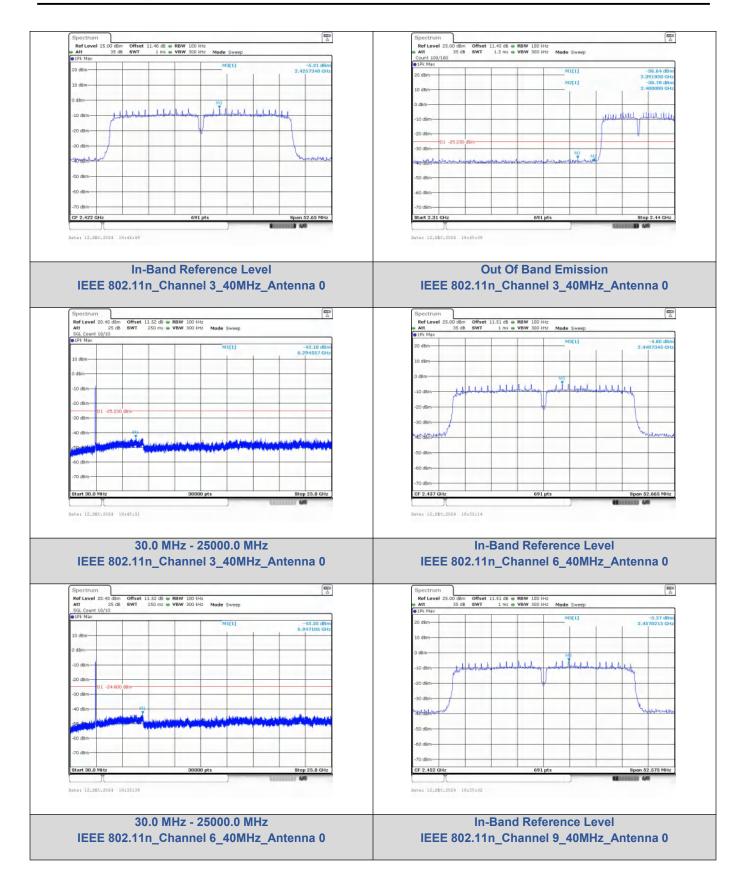




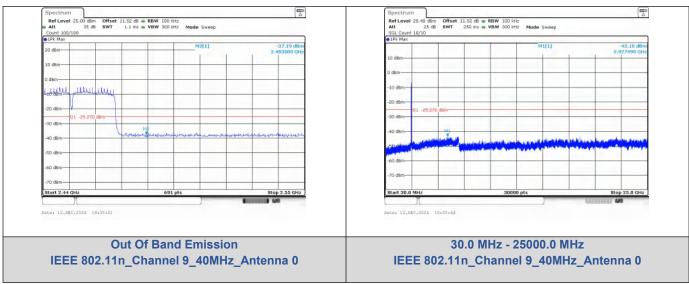












-----End of the report-----