

0659



FCC Radio Test Report

FCC ID: 2ATYCHMX03

Report No. : BTL-FCCP-3-2101T110

Equipment : HIPCAM

: Indoor Camera Max **Model Name**

: HIPCAM **Brand Name**

: Hipcam Global LLC Applicant

: 112 Capitol Trail, Newark, Delaware, 19711 United States Address

: Goldtek Technology Co., Ltd. Manufacturer

: 16F., No.166, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan Address

(R.O.C.)

Radio Function : WLAN 2.4 GHz

FCC Rule Part(s) : FCC Part15, Subpart C (15.247) : ANSI C63.10-2013

Measurement

Procedure(s)

Date of Receipt : 2021/2/2

Date of Test : 2021/2/2 ~ 2021/3/17

Issued Date : 2021/4/16

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISON HISTORY

| Report No. | Version | Description | Issued Date |
|---------------------|---------|---|-------------|
| BTL-FCCP-3-2101T110 | R00 | Original Report. | 2021/4/9 |
| BTL-FCCP-3-2101T110 | R01 | Revised report to address TCB's comments. | 2021/4/16 |

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| FCC Part 15, Subpart C (15.247) | | | | | | | | |
|---------------------------------|-------------------------------------|--------------------------|-----------|--------|--|--|--|--|
| Standard(s) Section | Description | Test Result | Judgement | Remark | | | | |
| 15.207 | AC Power Line Conducted Emissions | APPENDIX A | Pass | | | | | |
| 15.205 15.209 15.247(d) | Radiated Emissions | APPENDIX B APPENDIX C | Pass | | | | | |
| 15.247(a) | Bandwidth | APPENDIX D | Pass | | | | | |
| 15.247(b) | Output Power | APPENDIX E | Pass | | | | | |
| 15.247(e) | Power Spectral Density | APPENDIX F | Pass | | | | | |
| 15.247(d) | Antenna conducted Spurious Emission | APPENDIX G | Pass | | | | | |
| 15.203 | Antenna Requirement | | Pass | | | | | |

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.

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1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

 $oxed{\boxtimes}$ C05 $oxed{\Box}$ CB08 $oxed{\Box}$ CB11 $oxed{\boxtimes}$ CB15 $oxed{\Box}$ CB16

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 \mathbf{U}_{cisor} requirement.

A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U (dB) |
|-----------|--------|-----------------------------|--------|
| C05 | CISPR | 150 kHz ~ 30MHz | 3.44 |

B. Radiated emissions test:

| Test Site | Measurement Frequency Range | U,(dB) |
|-----------|-----------------------------|--------|
| | 0.03 GHz ~ 0.2 GHz | 4.17 |
| | 0.2 GHz ~ 1 GHz | 4.72 |
| CB15 | 1 GHz ~ 6 GHz | 5.21 |
| CB15 | 6 GHz ~ 18 GHz | 5.51 |
| | 18 GHz ~ 26 GHz | 3.69 |
| | 26 GHz ~ 40 GHz | 4.23 |

C. Conducted test:

| Test Item | U,(dB) |
|------------------------------|--------|
| Bandwidth | 1.13 |
| Output power | 1.06 |
| Power Spectral Density | 1.20 |
| Conducted Spurious emissions | 1.14 |
| Conducted Band edges | 1.13 |

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Environment Condition | Test Voltage | Tested by |
|-------------------------------------|-----------------------|--------------|-------------|
| AC Power Line Conducted Emissions | 20 °C, 74 % | AC 120V | Vincent Lee |
| Radiated emissions below 1 GHz | 20 °C, 70 % | AC 120V | Jay Kao |
| Radiated emissions above 1 GHz | 20~21 °C, 69~70 % | AC 120V | Jay Kao |
| Bandwidth | 22 °C, 52 % | AC 120V | Nero Hsieh |
| Output Power | 22 °C, 52 % | AC 120V | Nero Hsieh |
| Power Spectral Density | 22 °C, 52 % | AC 120V | Nero Hsieh |
| Antenna conducted Spurious Emission | 22 °C, 52 % | AC 120V | Nero Hsieh |



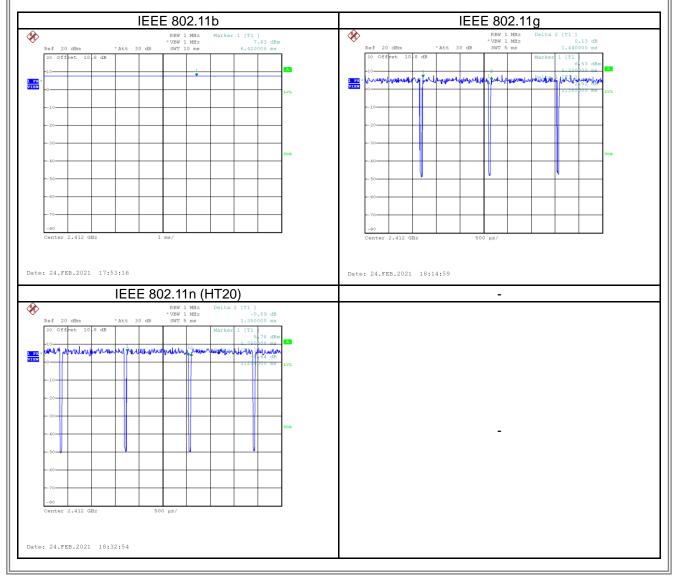
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

| Test Software | | Ampak RFT | estTool v7.0 | |
|---------------------|----------|-----------|--------------|-----------|
| Mode | 2412 MHz | 2437 MHz | 2462 MHz | Data Rate |
| IEEE 802.11b | DEF | DEF | DEF | 1 Mbps |
| IEEE 802.11g | DEF | DEF | DEF | 6 Mbps |
| IEEE 802.11n (HT20) | DEF | DEF | DEF | MCS 0 |

1.5 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.

| D | Dalta 4 | | l | Dalta 0 | O . T /D | 401: (4/5 + 0 -15) |
|---------------------|---------|---------|-------------|-----------------|----------------|----------------------|
| Remark | Delta 1 | | | Delta 2 | On Time/Period | 10 log(1/Duty Cycle) |
| Mode | ON | Numbers | On Time (B) | Period (ON+OFF) | Duty Cycle | Duty Factor |
| Iviode | (ms) | (ON) | (ms) | (ms) | (%) | (dB) |
| IEEE 802.11b | 1.00 | 1 | 1.00 | 1.00 | 100.00% | 0.00 |
| IEEE 802.11g | 1.380 | 1 | 1.380 | 1.440 | 95.83% | 0.18 |
| IEEE 802.11n (HT20) | 1.290 | 1 | 1.290 | 1.350 | 95.56% | 0.20 |



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

| Equipment | HIPCAM |
|-----------------------|--|
| Model Name | Indoor Camera Max |
| Brand Name | HIPCAM |
| Model Difference | N/A |
| Power Source | DC Voltage supplied from AC/DC adapter. |
| Power Rating | I/P: 100-240V~ 50/60Hz 0.6A Max O/P: 12.0Vdc 2.0A 24.0W |
| Products Covered | 1 * Adapter: SIMSUKIAN / SK03T-1200200Z 1 * Base |
| Operation Band | 2400 MHz ~ 2483.5 MHz |
| Operation Frequency | 2412 MHz ~ 2462 MHz |
| Modulation Technology | IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM |
| Transfer Rate | IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps |
| Output Power Max. | IEEE 802.11b: 17.89 dBm (0.0615 W) IEEE 802.11g: 21.99 dBm (0.1581W) IEEE 802.11n (HT20): 22.42 dBm (0.1746 W) |
| Test Model | Indoor Camera Max |
| Sample Status | Engineering Sample |
| EUT Modification(s) | N/A |

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| 01 | 2412 | 05 | 2432 | 09 | 2452 |
| 02 | 2417 | 06 | 2437 | 10 | 2457 |
| 03 | 2422 | 07 | 2442 | 11 | 2462 |
| 04 | 2427 | 08 | 2447 | | |

(3) Table for Filed Antenna:

| Ant. | Manufacture | Product | Туре | Connector | Frequency Range (MHz) | Gain (dBi) |
|------|-------------|------------|------|-----------|--------------------------|------------|
| 1 | 2 | Wi-Fi Ant. | РСВ | N/A | 2400-2500 | 3.91 |

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2.2 TEST MODES

| Test Items | Test mode | Channel | Note |
|---|-----------------------------|----------|----------|
| AC power line conducted emissions | Normal/Idle | - | - |
| Transmitter Radiated Emissions (below 1GHz) | TX Mode_IEEE 802.11b | 01 | - |
| | TX Mode_IEEE 802.11b | | |
| | TX Mode_IEEE 802.11g | 01/11 | Bandedge |
| Transmitter Radiated Emissions | TX Mode_IEEE 802.11n (HT20) | | |
| (above 1GHz) | TX Mode_IEEE 802.11b | | |
| | TX Mode_IEEE 802.11g | 01/06/11 | Harmonic |
| | TX Mode_IEEE 802.11n (HT20) | | |
| Bandwidth & | TX Mode_IEEE 802.11b | | |
| Power Spectral Density & | TX Mode_IEEE 802.11g | 01/06/11 | - |
| Antenna conducted Spurious Emission | TX Mode_IEEE 802.11n (HT20) | | |
| | TX Mode_IEEE 802.11b | | |
| Output Power | TX Mode_IEEE 802.11g | 01/06/11 | - |
| | TX Mode_IEEE 802.11n (HT20) | | |

NOTE:

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (4) There were no emissions found below 30 MHz within 20 dB of the limit.

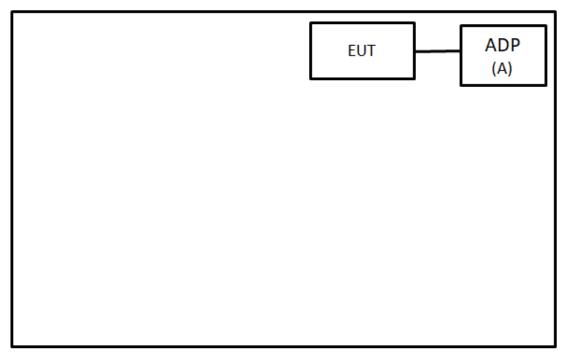
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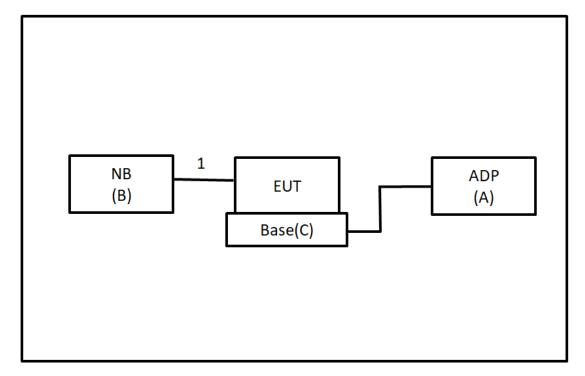
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



Radiated Emissions





2.4 SUPPORT UNITS

| Item | Equipment | Brand | Model No. | Series No. | Remarks |
|------|-----------|-----------|----------------|------------|-----------------------------|
| Α | Adapter | SIMSUKIAN | SK03T-1200200Z | N/A | Supplied by test requester. |
| В | NB | hp | TPN-I119 | N/A | Furnished by test lab. |
| С | Base | HIPCAM | N/A | N/A | Supplied by test requester. |

| ı | | | | | | | |
|---|------|----------|--------------|--------|------------|------------------------|---|
| | Item | Shielded | Ferrite Core | Length | Cable Type | Remarks | |
| ı | 1 | N/A | N/A | 1m | USB Cable | Furnished by test lab. | 1 |

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3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

| Frequency | Limit (dBµV) | | |
|------------|--------------|-----------|--|
| (MHz) | Quasi-peak | Average | |
| 0.15 - 0.5 | 66 - 56 * | 56 - 46 * | |
| 0.50 - 5.0 | 56 | 46 | |
| 5.0 - 30.0 | 60 | 50 | |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level | | Correct Factor | | Measurement Value |
|---------------|---|----------------|---|-------------------|
| 38.22 | + | 3.45 | = | 41.67 |

| Measurement Value | | Limit Value | | Margin Level |
|-------------------|---|-------------|----|--------------|
| 41.67 | ı | 60 | II | -18.33 |

The following table is the setting of the receiver.

| Receiver Parameter | Setting |
|--------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 KHz |

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 - All other support equipment were powered from an additional LISN(s).
 - The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 - The end of the cable will be terminated, using the correct terminating impedance.
 - The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

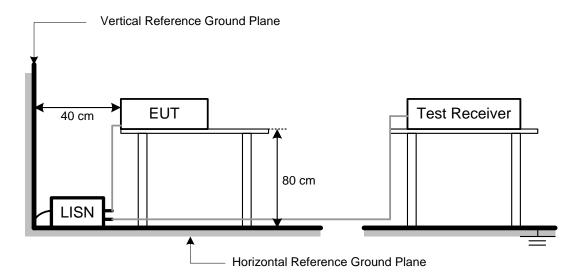
3.3 DEVIATION FROM TEST STANDARD

No deviation.

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3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

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4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

| 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 |
| 216~960 | 200 | 3 |
| 960~1000 | 500 | 3 |

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

| Frequency (MHz) | Radiated Emissions (dBuV/m) | | Measurement Distance | |
|--------------------|-----------------------------|---------|----------------------|--|
| (IVIIIZ) | Peak | Average | (meters) | |
| Above 1000 | 74 | 54 | 3 | |

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level | | Correct Factor | | Measurement Value |
|---------------|---|----------------|--|-------------------|
| 19.11 | + | 2.11 | | 21.22 |

| Measurement Value | | Limit Value | | Margin Level |
|-------------------|---|-------------|---|--------------|
| 21.22 | - | 54 | = | -32.78 |

| Spectrum Parameter | Setting |
|-------------------------------|------------------------|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RBW / VBW | 1MHz / 3MHz for Peak, |
| (Emission in restricted band) | 1MHz / 1/T for Average |

| Spectrum Parameter | Setting |
|------------------------|-----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

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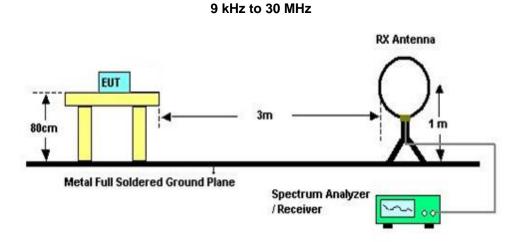
4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

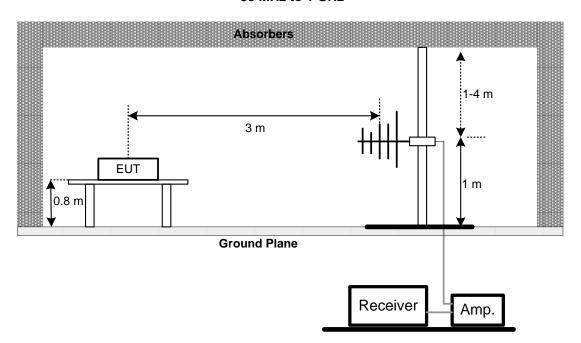
No deviation.

4.4 TEST SETUP

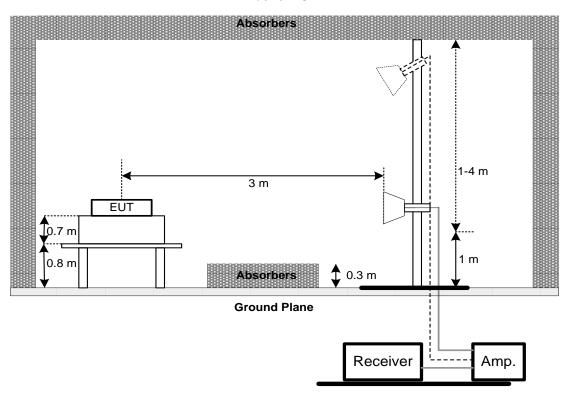




30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



Report No.: BTL-FCCP-3-2101T110 4.6 TEST RESULT - 30 MHZ TO 1 GHZ Please refer to the APPENDIX B. **TEST RESULT – ABOVE 1 GHZ** Please refer to the APPENDIX C. NOTE: (1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5 BANDWIDTH TEST

5.1 LIMIT

| | FCC Part15, Subpart C (15.247) | |
|-----------|--------------------------------|---------|
| Section | Test Item | Limit |
| 15.247(a) | 6 dB Bandwidth | 500 kHz |

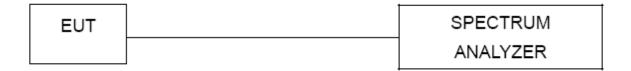
5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 OUTPUT POWER TEST

6.1 LIMIT

| | FCC Part15, Subpart C (15.247) | |
|-----------|--------------------------------|-----------------|
| Section | Test Item | Limit |
| 15.247(b) | Maximum Output Power | 1 Watt or 30dBm |

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

| | FCC Part15, Subpart C (15.247) | |
|-----------|--------------------------------|-------------------------|
| Section | Test Item | Limit |
| 15.247(e) | Power Spectral Density | 8 dBm (in any 3 kHz) |

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.



8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- c. Offset = antenna gain + cable loss.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP

EUT SPECTRUM ANALYZER

8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX G.

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9 LIST OF MEASURING EQUIPMENTS

| | AC Power Line Conducted Emissions | | | | | |
|------|-----------------------------------|--------------|-----------------------------------|------------|--------------------|---------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | TWO-LINE V-NETWORK | R&S | ENV216 | 101050 | 2020/6/11 | 2021/6/10 |
| 2 | Test Cable | EMCI | EMC400-BM-BM- 5000 | 170501 | 2020/6/8 | 2021/6/7 |
| 3 | EMI Test Receiver | R&S | ESCI | 100080 | 2020/6/15 | 2021/6/14 |
| 4 | Measurement Software | EZ | EZ_EMC (Version NB-03A1-01) | N/A | N/A | N/A |

| | Radiated Emissions | | | | | |
|------|-----------------------------|-----------------|-----------------------------------|---------------|--------------------|---------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Preamplifier | EMCI | EMC001340 | 980555 | 2020/4/10 | 2021/4/9 |
| 2 | Preamplifier | EMCI | EMC02325B | 980217 | 2020/4/10 | 2021/4/9 |
| 3 | Preamplifier | EMCI | EMC012645B | 980267 | 2020/4/10 | 2021/4/9 |
| 4 | Test Cable | EMCI | EMC-SM-SM-100 0 | 180809 | 2020/4/10 | 2021/4/9 |
| 5 | Test Cable | EMCI | EMC104-SM-SM- 3000 | 151205 | 2020/4/10 | 2021/4/9 |
| 6 | Test Cable | EMCI | EMC-SM-SM-700 0 | 180408 | 2020/4/10 | 2021/4/9 |
| 7 | MXE EMI Receiver | Agilent | N9038A | MY554200087 | 2020/6/10 | 2021/6/9 |
| 8 | Signal Analyzer | Agilent | N9010A | MY56480554 | 2020/8/25 | 2021/8/24 |
| 9 | Loop Ant | Electro-Metrics | EMCI-LPA600 | 274 | 2020/6/16 | 2021/6/15 |
| 10 | Horn Ant | SCHWARZBECK | BBHA 9120D | 9120D-1342 | 2020/6/12 | 2021/6/11 |
| 11 | Horn Ant | Schwarzbeck | BBHA 9170 | BBHA 9170340 | 2020/7/9 | 2021/7/8 |
| 12 | Trilog-Broadband Antenna | Schwarzbeck | VULB 9168 | VULB 9168-352 | 2020/7/24 | 2021/7/23 |
| 13 | 5dB Attenuator | EMCI | EMCI-N-6-05 | AT-N0625 | 2020/7/24 | 2021/7/23 |
| 14 | Measurement Software | EZ | EZ_EMC (Version NB-03A1-01) | N/A | N/A | N/A |

| | | | Bandwidth | | | |
|------|----------------------|--------------|-----------|------------|--------------------|---------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100129 | 2020/6/15 | 2021/6/14 |

| | | | Output Power | | | |
|------|----------------------|--------------|--------------|------------|--------------------|---------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Power Meter | Anritsu | ML2495A | 1128008 | 2020/6/11 | 2021/6/10 |
| 2 | Power Sensor | Anritsu | MA2411B | 1126001 | 2020/6/11 | 2021/6/10 |

| | | F | ower Spectral De | nsity | | |
|------|----------------------|--------------|------------------|------------|--------------------|---------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100129 | 2020/6/15 | 2021/6/14 |



| | Antenna conducted Spurious Emission | | | | | |
|------|-------------------------------------|--------------|----------|------------|--------------------|---------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100129 | 2020/6/15 | 2021/6/14 |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.



| 10 EUT TEST PHOTO |
|---|
| Please refer to document Appendix No.: TP-2101T110-FCCP-1 (APPENDIX-TEST PHOTOS). |
| 11 EUT PHOTOS |
| Please refer to document Appendix No.: EP-2101T110-1 (APPENDIX-EUT PHOTOS). |
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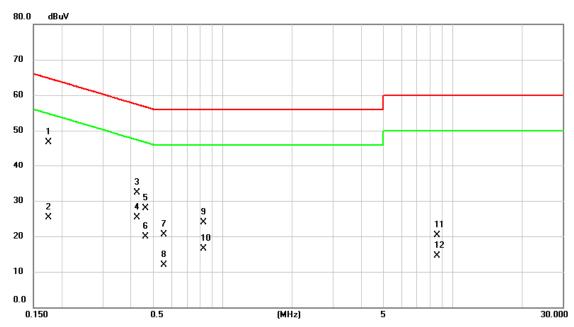
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| APPENDIX A | AC POWER LINE CONDUCTED EMISSIONS |
|------------|-----------------------------------|
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| Test Mode | Normal | Tested Date | 2021/3/9 |
|----------------|--------|-------------|----------|
| Test Frequency | - | Phase | Line |

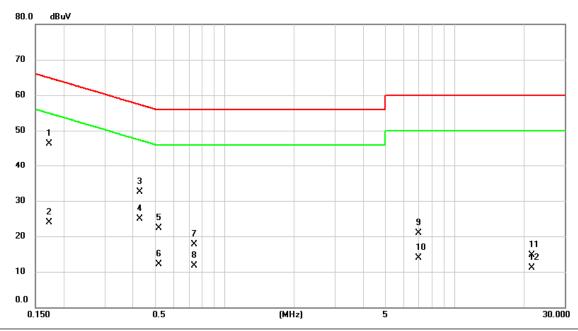


| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBu∨ | dBu∨ | dB | Detector | Comment |
| 1 * | 0.1750 | 37.03 | 9.68 | 46.71 | 64.72 | -18.01 | QP | |
| 2 | 0.1750 | 15.71 | 9.68 | 25.39 | 54.72 | -29.33 | AVG | |
| 3 | 0.4267 | 22.70 | 9.68 | 32.38 | 57.32 | -24.94 | QP | |
| 4 | 0.4267 | 15.55 | 9.68 | 25.23 | 47.32 | -22.09 | AVG | |
| 5 | 0.4627 | 18.27 | 9.68 | 27.95 | 56.64 | -28.69 | QP | |
| 6 | 0.4627 | 10.17 | 9.68 | 19.85 | 46.64 | -26.79 | AVG | |
| 7 | 0.5550 | 10.74 | 9.68 | 20.42 | 56.00 | -35.58 | QP | |
| 8 | 0.5550 | 2.32 | 9.68 | 12.00 | 46.00 | -34.00 | AVG | |
| 9 | 0.8250 | 14.21 | 9.69 | 23.90 | 56.00 | -32.10 | QP | |
| 10 | 0.8250 | 6.91 | 9.69 | 16.60 | 46.00 | -29.40 | AVG | |
| 11 | 8.5493 | 10.48 | 9.90 | 20.38 | 60.00 | -39.62 | QP | |
| 12 | 8.5493 | 4.55 | 9.90 | 14.45 | 50.00 | -35.55 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| Ш | | | | | |
|---|----------------|--------|-------------|----------|--|
| | Test Mode | Normal | Tested Date | 2021/3/9 | |
| | Test Frequency | - | Phase | Neutral | |



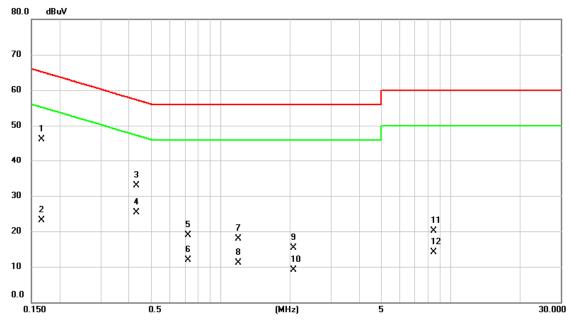
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBu∨ | dB | dBu∨ | dBu∨ | dB | Detector | Comment |
| 1 | * | 0.1725 | 36.69 | 9.68 | 46.37 | 64.84 | -18.47 | QP | |
| 2 | | 0.1725 | 14.30 | 9.68 | 23.98 | 54.84 | -30.86 | AVG | |
| 3 | | 0.4290 | 22.81 | 9.68 | 32.49 | 57.27 | -24.78 | QP | |
| 4 | | 0.4290 | 15.23 | 9.68 | 24.91 | 47.27 | -22.36 | AVG | |
| 5 | | 0.5167 | 12.55 | 9.68 | 22.23 | 56.00 | -33.77 | QP | |
| 6 | | 0.5167 | 2.51 | 9.68 | 12.19 | 46.00 | -33.81 | AVG | |
| 7 | | 0.7395 | 7.98 | 9.68 | 17.66 | 56.00 | -38.34 | QP | |
| 8 | | 0.7395 | 1.99 | 9.68 | 11.67 | 46.00 | -34.33 | AVG | |
| 9 | | 6.9833 | 10.97 | 9.87 | 20.84 | 60.00 | -39.16 | QP | |
| 10 | | 6.9833 | 4.08 | 9.87 | 13.95 | 50.00 | -36.05 | AVG | |
| 11 | | 21.5925 | 4.73 | 9.95 | 14.68 | 60.00 | -45.32 | QP | |
| 12 | | 21.5925 | 1.21 | 9.95 | 11.16 | 50.00 | -38.84 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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| Ш | | | | | |
|---|----------------|------|-------------|----------|--|
| | Test Mode | Idle | Tested Date | 2021/3/9 | |
| | Test Frequency | - | Phase | Line | |

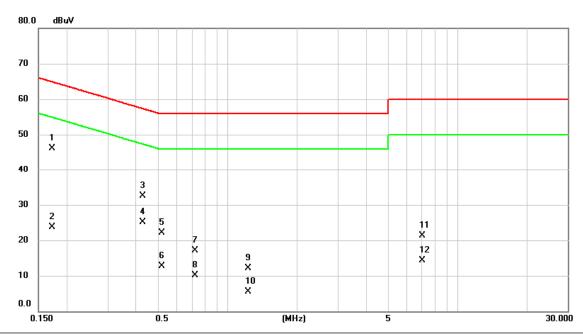


| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBu∨ | dBu∨ | dB | Detector | Comment |
| 1 * | 0.1658 | 36.37 | 9.68 | 46.05 | 65.17 | -19.12 | QP | |
| 2 | 0.1658 | 13.42 | 9.68 | 23.10 | 55.17 | -32.07 | AVG | |
| 3 | 0.4312 | 23.19 | 9.68 | 32.87 | 57.23 | -24.36 | QP | |
| 4 | 0.4312 | 15.63 | 9.68 | 25.31 | 47.23 | -21.92 | AVG | |
| 5 | 0.7236 | 9.27 | 9.68 | 18.95 | 56.00 | -37.05 | QP | |
| 6 | 0.7236 | 2.23 | 9.68 | 11.91 | 46.00 | -34.09 | AVG | |
| 7 | 1.1940 | 8.21 | 9.70 | 17.91 | 56.00 | -38.09 | QP | |
| 8 | 1.1940 | 1.39 | 9.70 | 11.09 | 46.00 | -34.91 | AVG | |
| 9 | 2.0760 | 5.58 | 9.74 | 15.32 | 56.00 | -40.68 | QP | |
| 10 | 2.0760 | -0.73 | 9.74 | 9.01 | 46.00 | -36.99 | AVG | |
| 11 | 8.4233 | 10.20 | 9.90 | 20.10 | 60.00 | -39.90 | QP | |
| 12 | 8.4233 | 4.30 | 9.90 | 14.20 | 50.00 | -35.80 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| Ш | | | | | |
|---|----------------|------|-------------|----------|--|
| | Test Mode | Idle | Tested Date | 2021/3/9 | |
| | Test Frequency | - | Phase | Neutral | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBu∨ | dB | dBu∨ | dBu∨ | dB | Detector | Comment |
| 1 | * | 0.1725 | 36.44 | 9.68 | 46.12 | 64.84 | -18.72 | QP | |
| 2 | | 0.1725 | 14.10 | 9.68 | 23.78 | 54.84 | -31.06 | AVG | |
| 3 | | 0.4290 | 22.75 | 9.68 | 32.43 | 57.27 | -24.84 | QP | |
| 4 | | 0.4290 | 15.35 | 9.68 | 25.03 | 47.27 | -22.24 | AVG | |
| 5 | | 0.5190 | 12.35 | 9.68 | 22.03 | 56.00 | -33.97 | QP | |
| 6 | | 0.5190 | 3.11 | 9.68 | 12.79 | 46.00 | -33.21 | AVG | |
| 7 | | 0.7236 | 7.50 | 9.68 | 17.18 | 56.00 | -38.82 | QP | |
| - 8 | | 0.7236 | 0.40 | 9.68 | 10.08 | 46.00 | -35.92 | AVG | |
| 9 | | 1.2232 | 2.36 | 9.70 | 12.06 | 56.00 | -43.94 | QP | |
| 10 | | 1.2232 | -4.17 | 9.70 | 5.53 | 46.00 | -40.47 | AVG | |
| 11 | | 7.0192 | 11.41 | 9.87 | 21.28 | 60.00 | -38.72 | QP | |
| 12 | | 7.0192 | 4.46 | 9.87 | 14.33 | 50.00 | -35.67 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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| APPENDIX B | RADIATED EMISSIONS - 30 MHZ TO 1 GHZ |
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| - | Test Mod | de | IEEE | 802.11b | | Test Date | | 202 | 1/3/5 | |
|---------|----------|----------|------------------|-------------------|------------------|--------------|----------|----------|---------|-----|
| Tes | st Frequ | ency | 241 | 2MHz | | Polarization | n | Vertical | | |
| | Temp | | 2 | :0°C | | Hum. | | 7(| 0% | |
| 80.0 dB | uV/m | | | | | | | | | _ |
| 70 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 50 | | | | | | | | | | - |
| 40 | | | 3 X | 4 × | 5 X | | 6 X | | | |
| 30 X | | × | | | | | | | | |
| 20 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 0.0 | | | | | | | | | | |
| 30.000 | 127.00 | 224.00 | 321.00 | 418.00 | 515.00 6 | | 0.00 806 | 5.00 | 1000.00 | МН |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comme | ent |
| 1 | | 62.9800 | 41.14 | -9.27 | 31.87 | 40.00 | -8.13 | QP | | |
| 2 | | 181.3200 | 43.69 | -9.86 | 33.83 | 43.50 | -9.67 | peak | | |
| 3 | | 366.5900 | 43.78 | -5.70 | 38.08 | 46.00 | -7.92 | peak | | |
| 4 | | 433.5200 | 40.47 | -4.07 | 36.40 | 46.00 | -9.60 | peak | | |
| 5 | | 532.4600 | 40.32 | -2.13 | 38.19 | 46.00 | -7.81 | peak | | |
| 6 | * | 711.9100 | 37.30 | 1.07 | 38.37 | 46.00 | -7.63 | QP | | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

| | Test Mo | ode | IEEE | 802.11b | | Test Date | | 202 | 1/3/5 | | |
|-------|------------------|----------|------------------|-------------------|------------------|--------------------|--------------------------|----------|------------|----------|--|
| | Test Frequ | • | | 2MHz | | Polarization | | | Horizontal | | |
| | Tem |) | 2 | 0°C | | Hum. | | 7 | 0% | | |
| 80.0 | dBuV/m | | | | | | | | | _ | |
| 70 | | | | | | | | | | | |
| 60 — | | | | | | | | | | | |
| 50 | | | | | | | | | | - | |
| 40 — | | 2 | 3 X | 4 × | 5 × | | 6 X | | | | |
| _ | | 1 × × | | | × | | ſ | | | | |
| 30 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 0.0 | 107.0 | 201.00 | 201.00 | 440.00 | | 10.00 | | | 1000.00 | <u> </u> | |
| 30.00 | 00 127.00 Mk. | | 321.00 | 418.00 | | 12.00 709 Limit | 9.00 80 6 Over | 5.00 | 1000.00 | МН | |
| No. | IVIK. | Freq. | Reading Level | Correct Factor | Measure- ment | LITTIIL | Over | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comme | ent | |
| 1 | | 167.7400 | 44.90 | -8.52 | 36.38 | 43.50 | -7.12 | peak | 30 | | |
| 2 | | 245.3400 | 47.31 | -9.46 | 37.85 | 46.00 | -8.15 | peak | | | |
| 3 | * | 366.5900 | 49.42 | -5.70 | 43.72 | 46.00 | -2.28 | QP | | | |
| 4 | ! | 433.5200 | 44.64 | -4.07 | 40.57 | 46.00 | -5.43 | QP | | | |
| 5 | | 532.4600 | 39.94 | -2.13 | 37.81 | 46.00 | -8.19 | peak | | | |
| 6 | | 714.8200 | 38.65 | 1.15 | 39.80 | 46.00 | -6.20 | QP | | | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



| APPENDIX C | RADIATED EMISSIONS - ABOVE 1 GHZ |
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| Test Mode | | | IEEE802.11b | | | | Test Date | | | | 2021/3/3 | | | |
|---------------------|-----------------|---------------------------------|-------------|--------------|----------------|-------|----------------|--------------|---------------------|---------------|----------------|-----------------------------------|----------------------|-------------|
| Test Frequency Temp | | | | 2412MHz | | | | Polarization | | | | Horizontal | | |
| | | | | 21°C | | | | Hum. | | | | 69% | | |
| 130.0 dB | uV/m | | | | | | | | | | | | | _ |
| 120 | | | | | | | | | | | | | | |
| 110 | | | | | | | * | | | | | | | - |
| 100 | | | | | | + | \vdash | | | | | | | \parallel |
| 90 | | | | | | + | | | | | | | | - |
| 80 | | | | | | | - | | | | | | | |
| 70 | | | | | 500 | | \ | ካ | | | | | | 7 |
| 60 | | مداه مادر و بالباد _ و الراد | | | 1 Transport | | | 1 | والمراجعة والمراجعة | سينه ويلى | المساولات | insterentlikaliskaliskaliskandali | 5 X | |
| 50 | ##hired.jphores | things with service consisters. | -Addition- | | 2 | | | | - Marchine - March | y spy (r mis- | clon n.s. sout | Company of the second second | advanted til tim e-n | *** |
| 40 | | | | • | , | | | | | | | | - 6 X | + |
| 30 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | - |
| 10.0 | | | | | | | | | | | | | | |
| | 0 2332.00 | | | | 2392.00 | | | 2432 | | 2452.00 | | 72.00 | 2512.00 | МН |
| No. | Mk. | Freq. | | iding vel | Correct Factor | | easure ment | - | Limit | C | Over | | | |
| | | MHz | dE | ₿uV | dB | d | BuV/m | (| dBuV/m | ì | dB | Detector | Comm | ent |
| 1 | | 2383.300 |) 26 | .35 | 30.76 | | 57.11 | | 74.00 | -1 | 6.89 | peak | | |
| 2 | | 2383.300 |) 14 | .78 | 30.76 | | 45.54 | | 54.00 | -8 | 3.46 | AVG | | |
| 3 | Χ | 2412.000 | 79 | .23 | 30.88 | 30.88 | | | 74.00 | 3 | 6.11 | peak | NoLin | nit |
| 4 | * | 2412.000 | 76 | .04 | 30.88 | 1 | 106.92 | | 54.00 | 5 | 2.92 | AVG | NoLin | nit |
| 5 | | 2500.473 | 3 26 | .63 | 31.23 | | 57.86 | | 74.00 | -1 | 6.14 | peak | | |
| 6 | | 2500.473 |) 5 | 75 | 31.23 | | 36.98 | | 54.00 | - 1 | 7.02 | AVG | | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

| Test Mode Test Frequency Temp | | | IEEE | 802.11b | | Test Date | 2021/3/3 Horizontal | | |
|-------------------------------------|---|---------------------------------|--------------------------|-------------------|------------------------|--|------------------------|----------------------------|-----------------------|
| | | | | 2MHz | | Polarizatio | | | |
| | | | 2 | 1°C | | Hum. | | 69% | |
| 130.0 dB | uV/m | | | | | | | | |
| 120 | | | | | | | | | |
| 110 | | | | | * | | | | |
| 100 | | | | | + | | | | |
| 90 | | | | | | | | | |
| 80 | | | | | | | | | |
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| 50 *** **** | han a san a s | ale Andre Anti-Arthur Ar Parkan | COLORONIA DE LA TENTA DE | 4111 | | 6 | 7.000 | and all a red out to a red | |
| 40 | 2 X | | | | | × | | | |
| 30 | | | | | | | | | |
| 20 | | | | | | | | | |
| 10.0 | | | | | | | | | |
| No. | 0 2382.00 Mk. | | 2422.00 | 2442.00 | 2462.00 24 Measure- | 182.00 250 Limit | 02.00 252 Over | 2.00 | 2562.00 MH |
| INO. | IVIK. | Freq. | Reading Level | Correct Factor | ment | LITTIIL | Over | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2374.980 | 25.86 | 30.72 | 56.58 | 74.00 | -17.42 | peak | |
| 2 | | 2374.980 | 6.47 | 30.72 | 37.19 | 54.00 | -16.81 | AVG | |
| 3 | Χ | 2462.000 | 78.92 | 31.08 | 110.00 | 74.00 | 36.00 | peak | NoLimit |
| 4 | * | 2462.000 | 75.73 | 31.08 | 106.81 | 54.00 | 52.81 | AVG | NoLimit |
| 5 | | 2484.807 | 27.58 | 31.17 | 58.75 | 74.00 | -15.25 | peak | |
| 6 | | 2484.807 | 15.11 | 31.17 | 46.28 | 54.00 | -7.72 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

| | Test Mo | de | IEEE | 802.11g | | Test Date | | 202 | 1/3/3 |
|-------------|----------------------|----------------------------------|-----------------------------------|-------------------|------------------|--------------|------------------|------------------------|-----------------|
| Te | est Frequ | iency | | 2MHz | | Polarization | ı | | zontal |
| | Temp | | 2 | 1°C | | Hum. | | 69 | 9% |
| 130.0 d | BuV/m | | | | | | | | |
| 120 | | | | | | | | | |
| 110 - | | | | | 3 | | | | |
| 100 - | | | | | * ` | | | | |
| 90 | | | | | | | | | |
| 80 | | | | | | | | | |
| 70 | | | | | | 11 | | | |
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| 40 | | | | | | | | | 6 |
| 30 | | | | | | | | | × |
| 20 | | | | | | | | | |
| 10.0 | | | | | | | | | |
| | 00 2332.0 | | 2372.00 | 2392.00 | | | | 2.00 | 2512.00 MH |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2386.053 | 32.13 | 30.77 | 62.90 | 74.00 | -11.10 | peak | |
| 2 | | 2386.053 | 18.77 | 30.77 | 49.54 | 54.00 | -4.46 | AVG | |
| 3 | Χ | 2412.000 | 79.40 | 30.88 | 110.28 | 74.00 | 36.28 | peak | NoLimit |
| | * | 2412.000 | 70.24 | 30.88 | 101.12 | 54.00 | 47.12 | AVG | NoLimit |
| 4 | | 21121000 | | | | | | | |
| 4 5 6 | | 2499.493 | 25.69 4.79 | 31.23 31.23 | 56.92 36.02 | 74.00 | -17.08 -17.98 | peak AVG | |

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.

| ٦ | est Mod | de | IEEE | 802.11g | | Test Date | | 202 | 1/3/3 |
|------------|--------------------|----------|--------------------------------------|-------------------|---------------------|-------------|--------|-------------------------|---|
| Tes | t Frequ | ency | | S2MHz | | Polarizatio | n | Horiz | zontal |
| | Temp | | 2 | 1°C | | Hum. | | 69 | 9% |
| 30.0 dB | uV/m | | | | | | | | |
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| | 2382.00 | | 2422.00 | 2442.00 | | | | 2.00 | 2562.00 MH |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2386.533 | 26.07 | 30.77 | 56.84 | 74.00 | -17.16 | peak | • |
| 2 | | 2386.533 | 5.18 | 30.77 | 35.95 | 54.00 | -18.05 | AVG | |
| 3 | Χ | 2462.000 | 79.58 | 31.08 | 110.66 | 74.00 | 36.66 | peak | NoLimit |
| 4 | * | 2462.000 | 70.29 | 31.08 | 101.37 | 54.00 | 47.37 | AVG | NoLimit |
| 5 | | 2483.773 | 34.10 | 31.16 | 65.26 | 74.00 | -8.74 | peak | |
| | | | | | | | | | |

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

| ٦ | Test Mo | de | IEEE802 | .11n (HT20 | 0) | Test Date | | 202 | 1/3/3 | |
|--|---------------|----------------------------------|-------------------------|----------------------|------------------|-------------|----------------------------|-----------------------|----------------|----|
| Tes | t Frequ | iency | 241 | 12MHz | | Polarizatio | า | Hori | zontal | |
| | Temp |) | 2 | 21°C | | Hum. | | 69 | 9% | |
| 30.0 dB | uV/m | | | | | | | | | |
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| | 0 2332.0 | | 2372.00 | 2392.00 | | | | 2.00 | 2512.00 M | 4H |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Commen | nt |
| 1 | | 2389.307 | 36.85 | 30.78 | 67.63 | 74.00 | -6.37 | peak | | |
| 2 | | 2389.307 | 20.01 | 30.78 | 50.79 | 54.00 | -3.21 | AVG | | |
| 3 | Χ | 2412.000 | | 30.88 | 111.74 | 74.00 | 37.74 | peak | NoLimit | |
| 4 | * | 2412.000 | 71.26 | 30.88 | 102.14 | 54.00 | 48.14 | AVG | NoLimit | i |
| 5 | | 2485.007 | 26.54 | 31.17 | 57.71 | 74.00 | -16.29 | peak | | |
| 6 | | 2485.007 | 5.37 | 31.17 | 36.54 | 54.00 | -17.46 | AVG | | |

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.

| | Test Mo | de | IEEE80 | 2.11n (HT20) | | Test Date | | 202 | 1/3/3 |
|----------------------------|---|--|---|--|---|------------------------------------|------------------------------|---------------------------------|------------------|
| T | est Frequ | iency | 24 | 62MHz | | Polarizatio | า | Horiz | zontal |
| | Temp | | | 21°C | | Hum. | | 69 | 9% |
| 130.0 | dBuV/m | | | | | | | | |
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| 0.0 | X 000 2382.0 | 0 2402.00 | 2422.00 | 2442.00 | 2462.00 24 | 82.00 250 | 02.00 252 | 2.00 | 2562.00 MI |
| 20 | | 0 2402.00 Freq. | 2422.00 Reading | | 2462.00 24 Measure- | 82.00 250 Limit | 02.00 252 Over | 2.00 | 2562.00 MI |
| 20 0.0 2362.0 | 000 2382.0 | | | | | | | 2.00 | 2562.00 Mi |
| 20 0.0 2362.0 | 000 2382.0 | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | 2.00 Detector | 2562.00 MI |
| 0.0 2362.1 No. | 000 2382.0 | Freq. MHz 2372.147 | Reading Level dBuV 25.70 | Correct Factor dB 30.72 | Measure- ment dBuV/m 56.42 | Limit dBuV/m 74.00 | Over dB -17.58 | Detector peak | |
| 0.0 2362.1 No. | 000 2382.0 Mk. | Freq. MHz 2372.147 2372.147 | Reading Level dBuV 25.70 5.74 | Correct Factor dB 30.72 30.72 | Measure- ment dBuV/m 56.42 36.46 | Limit dBuV/m 74.00 54.00 | Over dB -17.58 -17.54 | Detector peak AVG | Comment |
| 20 0.0 2362.1 No. | 000 2382.0 Mk. | MHz 2372.147 2372.147 2462.000 | Reading Level dBuV 25.70 5.74 80.05 | Correct Factor dB 30.72 30.72 31.08 | Measure- ment dBuV/m 56.42 36.46 111.13 | Limit dBuV/m 74.00 54.00 74.00 | Over dB -17.58 -17.54 37.13 | Detector peak AVG peak | Comment |
| 20 2362.1 No. | 000 2382.0 Mk. | Freq. MHz 2372.147 2372.147 | Reading Level dBuV 25.70 5.74 80.05 70.98 | Correct Factor dB 30.72 30.72 | Measure- ment dBuV/m 56.42 36.46 | Limit dBuV/m 74.00 54.00 | Over dB -17.58 -17.54 | Detector peak AVG | Comment |

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

| | est Mo | | | | | 302.11b | | | | Test D | | | | | 21/3/4 |
|----------|---------|-------------|-----|--------|----|----------|-----|--------|------------|----------|------|-------|----------|---------|-------------|
| Tes | t Frequ | | | | | 2MHz | | | Р | olariza | | | | | rtical |
| 1000 10 | Temp |) | | | 20 | 0°C | | | | Hum | ۱. | | | 7 | 0% |
| 130.0 dB | uV/m | | | | | | | | | | | | | | |
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| No. | Mk. | Freq. | | Read | | Correct | | easure |) - | Limit | t | Ove | r | | |
| | | | | Leve | | Factor | | ment | | ID \ \ (| , | I.E. | | | • |
| | | MHz | | dBu | | dB | | BuV/m | 1 | dBuV/ | | dB | | etector | Comment |
| 1 | | 4824.0 | | 50.4 | | -9.96 | | 40.51 | | 74.00 | | -33.4 | | peak | |
| 2 | * | 4824.0 | 00 | 43.0 | 1 | -9.96 | ; | 33.05 | | 54.00 |) | -20.9 | 95 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mo | | | E802.11b | | Test Da | | | 1/3/4 |
|-------------|---------|-----------|-----------|----------|----------|----------|------------|----------|-------------|
| Tes | t Frequ | | 24 | 412MHz | | Polariza | | | zontal |
| | Temp | 1 | | 20°C | | Hum | - | 7 | 0% |
| 130.0 dB | ıV/m | | | | | | | | |
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| 1000.000 | 3550.0 | 0 6100.00 | 0 8650.00 | 11200.00 | 13750.00 | 16300.00 | 18850.00 2 | 1400.00 | 26500.00 MH |
| No. | Mk. | Freq. | Reading | | Measure | | | | |
| | | <u>'</u> | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/n | n dBuV/ı | m dB | Detector | Comment |
| 1 | | 4824.000 | | -9.96 | 44.27 | 74.00 | -29.73 | | |
| 2 | * | 4824.000 | 50.54 | -9.96 | 40.58 | 54.00 | -13.42 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| 1 | est Mo | de | | IEEE | 802.11b | | | Т | est Da | ite | | 202 | 1/3/4 |
|----------|---------|----------|-------------|------|----------|------|--------|------|----------|----------|------|----------|-------------|
| Tes | t Frequ | | | | 7MHz | | | Po | olarizat | | | | rtical |
| | Temp | | | 2 | 0°C | | | | Hum. | | | 7 | 0% |
| 130.0 dB | uV/m | | | | | | | | | | | | |
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| 120 | | | | | | | | | | | | | |
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| | 3550.00 | D 6100.0 | 0 8650 | 0.00 | 11200.00 | 1375 | 0.00 | 1630 | 00.00 | 18850.00 | 214 | 00.00 | 26500.00 MH |
| No. | Mk. | Freq. | | ding | Correct | Me | easure | - | Limit | С | ver | | |
| | | | | vel | Factor | | ment | | | | | | |
| | | MHz | | ₿uV | dB | | 3uV/m | (| dBuV/r | | dB | Detector | Comment |
| 1 | | 7311.000 | | .43 | -2.43 | | 55.00 | | 74.00 | | 9.00 | peak | |
| 2 | * | 7311.000 | 52 | .04 | -2.43 | 4 | 19.61 | | 54.00 | -2 | 1.39 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod | | | | 802.11b | | | Test Dat | | | 1/3/4 |
|----------|---------|----------|--------|---------|----------|----------|----|------------|---------|----------|---------------------------------------|
| Test | Freque | ency | | | 37MHz | | | Polarizati | on | | zontal |
| | Temp | | | 2 | 20°C | | | Hum. | | /(| 0% |
| 30.0 dBu | V/m | | | | | | | | | | |
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| No. | Mk. | Freq. | | Reading | Correct | Measur | e- | Limit | Over | • | |
| | | <u> </u> | | Level | Factor | ment | | | | | |
| | | MHz | | dBuV | dB | dBuV/r | | dBuV/m | | Detector | Comment |
| 1 | | 7311.00 | | 55.70 | -2.43 | 53.27 | | 74.00 | -20.7 | | · · · · · · · · · · · · · · · · · · · |
| 2 | * | 7311.00 | 0 | 48.58 | -2.43 | 46.15 | _ | 54.00 | -7.85 | 5 AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod | | | E802.11b | | Test Da | | | 1/3/4 |
|----------|----------|----------|------------------|---------------------|-----------------|----------|--------|----------|--------------|
| Tes | t Freque | ency | 2 | 462MHz | | Polariza | | | rtical |
| | Temp | | | 20°C | | Hum. | • | 7 | 0% |
| 130.0 dB | uV/m | | | | | | | | |
| 120 | | | | | | | | | |
| 110 | | | | | | | | | |
| 100 | | | | | | | | | |
| 90 | | | | | | | | | |
| 80 | | | | | | | | | |
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| 10.0 | | | | | | | | | |
| | 3550.00 | | 8650.00 | 11200.00 | 13750.00 | | | 400.00 | 26500.00 MH: |
| No. | Mk. | Freq. | Reading Level | g Correct Factor | Measure ment | e- Limit | Over | | |
| | | MHz | dBuV | dB | dBuV/m | n dBuV/r | n dB | Detector | Comment |
| 1 | | 7386.000 | 55.41 | -2.09 | 53.32 | 74.00 | -20.68 | peak | |
| 2 | * | 7386.000 | 50.56 | -2.09 | 48.47 | 54.00 | -5.53 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod t Freque | | | | 302.11b 2MHz | | | Test Da Polariza | | | | 1/3/4 zontal |
|----------|---------------------|----------|------|----|-----------------|-------|---------|---------------------|--------------|------|----------|-----------------|
| 163 | Temp | ысу | | | 0°C | | | Hum | | | | 2011(a) 0% |
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| 1000 000 | 3550.00 | 6100.00 | 8650 | nn | 11200.00 | 13750 | 0.00 10 | 6300.00 | 18850.00 | 214 | 00.00 | 26500.00 MF |
| No. | Mk. | Freq. | Rea | | Correct | | asure- | Limit | | ver | 00.00 | 20300.00 MT |
| 140. | IVIIV. | i ieq. | Lev | | Factor | | nent | LIIIII | . 0 | v GI | | |
| | | MHz | dB | | dB | | BuV/m | dBuV/ | m c | iB | Detector | Comment |
| 1 | | 7386.000 | 52. | | -2.09 | | 0.15 | 74.00 | | 3.85 | peak | |
| 2 | * | 7386.000 | 46. | 96 | -2.09 | 4 | 4.87 | 54.00 |) <u>-</u> a | .13 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | Test Mo | | | | 802.11g | | | est Dat | | | 1/3/4 |
|---------|-----------|----------|------|--------|----------|----------|------|----------|---------|----------|-------------|
| Te | st Frequ | | | | 2MHz | | Po | larizati | on | | rtical |
| | Temp | | | 2 | 0°C | | | Hum. | | 7 | 0% |
| 30.0 dE | 3uV/m | | | | | | | | | | |
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| No. | Mk. | Freq. | | eading | Correct | Measur | э- | Limit | Ove | • | |
| | | | | Level | Factor | ment | | | | _ | |
| | | MHz | | dBuV | dB | dBuV/n | | BuV/m | | Detector | Comment |
| 1 | | 4824.00 | | 51.89 | -9.96 | 41.93 | | 74.00 | -32.0 | | |
| 2 | * | 4824.00 | 0 | 42.39 | -9.96 | 32.43 | | 54.00 | -21.5 | 7 AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mo | | | | | 302.11g | | | | Test Da | | | | 21/3/4 |
|----------|---------|--------|-----|------|-----|----------|-----|--------|-----|----------|------|---------|----------|-------------|
| Tes | t Frequ | | | | | 2MHz | | | F | Polariza | | | | zontal |
| | Temp |) | | | 2 | 0°C | | | | Hum | ١. | | 7 | 0% |
| 130.0 dB | .V/m | | | | | | | | | | | | | |
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| 1000.000 | 3550.0 | 0 6100 | .00 | 8650 | .00 | 11200.00 | 137 | 50.00 | 163 | 300.00 | 1885 | 0.00 21 | 1400.00 | 26500.00 MH |
| No. | Mk. | Freq | | Rea | | Corre | | leasur | e- | Limit | t | Over | _ | |
| | | | | Le | | Facto | | ment | | | | | | |
| | | MHz | | dB | | dB | | lBuV/r | | dBuV/ | | dB | Detector | Comment |
| 1 | | 4824.0 | | 52. | | -9.96 | | 42.48 | | 74.00 | | -31.52 | | |
| 2 | * | 4824.0 | 00 | 42. | 62 | -9.96 | | 32.66 | | 54.00 |) | -21.34 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod t Freque | | | E802.11g 37MHz | | Test Date Polarizatio | | | 1/3/4 rtical |
|---------|-----------------------|----------|------------------|-------------------|------------------|--------------------------|--------|----------|-----------------|
| 163 | Temp | ысу | | 20°C | | Hum. | 11 | | 0% |
| 30.0 dB | <u>10111₽</u> .W/m | | | 200 | | T IGITI. | | | 0 70 |
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| 0.0 | | | | | | | | | |
| | 3550.00 | | 8650.00 | 11200.00 | | | | 00.00 | 26500.00 MH |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 7311.000 | 54.05 | -2.43 | 51.62 | 74.00 | -22.38 | peak | |
| 2 | * | 7311.000 | 43.33 | -2.43 | 40.90 | 54.00 | -13.10 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod | | | 802.11g | | Test Da | | | 1/3/4 |
|-------------|----------|----------|------------------|-------------------|-----------------|----------|------|----------|-------------|
| Tes | t Freque | ency | | 7MHz | | Polariza | | | zontal |
| | Temp | | 2 | 0°C | | Hum | | 7 | 0% |
| 130.0 dB | W/m | | | | | | | | |
| 120 | | | | | | | | | |
| 20 | | | | | | | | | |
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| io <u> </u> | | | | | | | | | |
| 0 | | | 2 X | | | | | | |
| 80 | | | | | | | | | |
| | | | | | | | | | |
| 20 | | | | | | | | | |
| 10.0 | | | | | | | | | |
| | 3550.00 | | 8650.00 | 11200.00 | 13750.00 | 16300.00 | | 21400.00 | 26500.00 MH |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure ment | - Limit | Over | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/ı | m dB | Detector | Comment |
| 1 | | 7311.000 | 53.46 | -2.43 | 51.03 | 74.00 | | | 2 0 |
| 2 | * | 7311.000 | 42.58 | -2.43 | 40.15 | 54.00 | | • | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod t Freque | | | 802.11g 62MHz | | Test Date Polarization | | | 1/3/4 rtical |
|---------|---------------------|------------------|--------------------|---------------------|-------------------------|---------------------------|--------------------|----------|-----------------|
| 163 | Temp | ысу | | 20°C | | Hum. | 11 | |)% |
| 30.0 dB | .V/m | | • | | | 1101111 | | | <i>5</i> 70 |
| 20 | | | | | | | | | |
| 10 | | | | | | | | | |
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| 0 | | | 1 * | | | | | | |
| 0 | | | 2 X | | | | | | |
| o | | | | | | | | | |
| o | | | | | | | | | |
| 0.0 | 2550.00 | 6100.00 | 0050.00 | 11200.00 | 10750.00 14 | 2200.00 400 | 050.00 | 00.00 | 20500 00 141 |
| No. | 3550.00 Mk. | 6100.00 Freq. | 8650.00 Reading | 11200.00 Correct | 13750.00 10 Measure- | 6300.00 188 Limit | 850.00 214 Over | 00.00 | 26500.00 MF |
| | | - 1 | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 7386.000 | 52.89 | -2.09 | 50.80 | 74.00 | -23.20 | peak | |
| 2 | * | 7386.000 | 43.69 | -2.09 | 41.60 | 54.00 | -12.40 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod | | | EE802. | | | | | est Da | | | | 1/3/4 |
|------------|----------|----------|----------------|----------|-----------------|-------|----------------|------|---------|-------|--------|----------|-------------|
| Tes | t Freque | ency | 2 | 2462MF | Ηz | | | Po | larizat | | | | zontal |
| | Temp | | | 20°C | | | | | Hum. | | | 7 | 0% |
| 130.0 dB | W/m | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | |
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| 70 | | | | | | | | | | | | | |
| 50 | | | _ | | | | | | | | | | |
| 50 | | | X . | | | | | | | | | | |
| 4 0 | | | 2 X | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | | |
| | 3550.00 | | 8650.00 | | 00.00 | 13750 | | 1630 | | 18850 | | 00.00 | 26500.00 MH |
| No. | Mk. | Freq. | Readir Leve | | orrect actor | | asure- nent | - | Limit | | Over | | |
| | | MHz | dBu∖ | | dB | | BuV/m | С | lBuV/r | n | dB | Detector | Comment |
| 1 | | 7386.000 | 53.45 | <u>-</u> | 2.09 | 5 | 1.36 | | 74.00 | | -22.64 | peak | |
| 2 | * | 7386.000 | 42.54 | ļ - | 2.09 | 4 | 0.45 | | 54.00 | | -13.55 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | Test Mo | | IEE | | .11n (HT20 | 0) | Test Da | | | 21/3/4 |
|----------|---------|---------|-----|---------------|-------------------|-------------|------------|----------|-----------|-------------|
| Tes | t Frequ | | | | 2MHz | | Polariza | | | ertical |
| | Temp | 1 | | 2 | 0°C | | Hum | | | 70% |
| 130.0 dB | uV/m | | | | | | | | | |
| 120 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 10 | | | | | | | | | | |
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| :0 | | 2 X | | | | | | | | |
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| 20 | | | | | | | | | | |
| 0.0 | | | | | | | | | | |
| | 3550.0 | | | 0.00 | 11200.00 | 13750.00 | 300.00 | 18850.00 | 21400.00 | 26500.00 MH |
| No. | Mk. | Freq. | | ading evel | Correct Factor | Measu | Limit | Ov | er | |
| | | MHz | | 3uV | dB | men dBuV | dBuV/ı | m dl | B Detecto | Comment |
| 1 | | 4824.00 | | .92 | -9.96 | 41.9 | 74.00 | | | Johnnon |
| 2 | * | 4824.00 | | 2.59 | -9.96 | 32.6 | 54.00 | | | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | Test Mo | de | IEEE8 | 302.11r |) (HT20 |)) | | - | Test Da | ate | | 202 | 1/3/4 |
|----------|-----------|----------|----------|---------|---------|------|--------|-----|---------|-------|----------|----------|-------------|
| | st Frequ | | | 2412M | | - / | | | olariza | | | | zontal |
| | Temp | | | 20°C | , | | | | Hum. | | | 7 | 0% |
| 130.0 di | 3uV/m | | | | | | | | 1 | | | | |
| | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | |
| 40 | | X | | | | | | | | | | | |
| | | 2 X | | | | | | | | | | | |
| 30 | | ^ | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | | |
| 1000.00 | 00 3550.0 | 0 6100.0 | 0 8650.0 | 0 11: | 200.00 | 1375 | 50.00 | 163 | 00.00 | 18850 | 0.00 214 | 00.00 | 26500.00 MH |
| No. | Mk. | Freq. | Readi | | orrect | | easure | - | Limit | | Over | | |
| | | N 41 1 | Leve | | actor | | ment | | JD 144 | | ID. | Datast | 0 |
| | | MHz | dBu' | | dB | | BuV/m | | dBuV/r | | dB | Detector | Comment |
| 1 | * | 4824.00 | | | -9.96 | | 42.94 | | 74.00 | | -31.06 | peak | |
| 2 | •• | 4824.00 | 2 42.6 | ŏ | -9.96 | | 32.72 | | 54.00 |) | -21.28 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| Т | est Mod | 10 | IEEE8 | 02.11n (H | 1T20) | | Tact | Date | | 202 | 1/3/4 |
|----------|----------|----------|-----------------|-----------|-------|-----------------|----------|--------|--------|----------|--------------|
| | t Freque | | | 437MHz | | | | izatio | | | rtical |
| | Temp | J.1.0 y | | 20°C | | | | um. | | | 0% |
| 130.0 dB | uV/m | | | | | | | | | | |
| 120 | | | | | | | | | | | |
| 110 | | | | | | | | | | | |
| 100 | | | | | | | | | | | |
| 90 | | | | | | | | | | | |
| 80 | | | | | | | | | | | |
| 70 | | | | | | | | | | | |
| 60 | | | | | | | | | | | |
| 50 | | | 1 X | | | | | | | | |
| 40 | | | 2 X | | | | | | | | |
| 30 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | |
| | 3550.00 | | | | | | 16300.00 | | | 1400.00 | 26500.00 MH: |
| No. | Mk. | Freq. | Readir Level | | | leasure ment | - Li | mit | Over | | |
| | | MHz | dBuV | | | BuV/m | dBı | ıV/m | dB | Detector | Comment |
| 1 | | 7311.000 | | | | 52.53 | | .00 | -21.47 | | |
| 2 | * | 7311.000 | 44.42 | -2. | 43 | 41.99 | 54 | .00 | -12.01 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| - | est Mod | 10 | IEEE803 | 2.11n (HT20 |)) | Test Da | tο | 202 | 1/3/4 |
|----------|----------|----------|------------------|-------------------|-----------------|-----------|--------|----------------|--------------|
| | t Freque | | | 37MHz |) | Polarizat | | | zontal |
| 100 | Temp | Jiioy | | 20°C | | Hum. | .011 | | 0% |
| 130.0 dB | uV/m | | | | | | | | |
| 120 | | | | | | | | | |
| 110 | | | | | | | | | |
| 100 | | | | | | | | | |
| 90 | | | | | | | | | |
| 80 | | | | | | | | | |
| 70 | | | | | | | | | |
| 60 | | | | | | | | | |
| 50 | | | × | | | | | | |
| 40 | | | 2 X | | | | | | |
| 30 | | | | | | | | | |
| 20 | | | | | | | | | |
| 10.0 | | | | | | | | | |
| | 3550.00 | | 8650.00 | 11200.00 | 13750.00 | | | 4 00.00 | 26500.00 MHz |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure ment | - Limit | Over | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | n dB | Detector | Comment |
| 1 | | 7311.000 | 52.90 | -2.43 | 50.47 | 74.00 | -23.53 | peak | |
| 2 | * | 7311.000 | 43.22 | -2.43 | 40.79 | 54.00 | -13.21 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| | est Mod | | IEEE | | 11n (HT20 | 0) | | Test Da | | | 21/3/4 |
|------------|----------|----------|--------|----|-----------|---------|------|----------|----------|----------|-------------|
| Tes | t Freque | ency | | | 2MHz | | | Polariza | | | ertical |
| | Temp | | | 20 |)°C | | | Hum | | | 70% |
| 130.0 dB | IV/m | | | | | | | | | | |
| 120 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 110 | | | | | | | | | | | |
| 100 | | | | | | | | | | | |
| _ | | | | | | | | | | | |
| 90 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| , <u> </u> | | | | | | | | | | | |
| | | | | | | | | | | | |
| 60 | | | 1 | | | | | | | | |
| 50 | | | | | | | | | | | |
| 10 | | | 2 X | | | | | | | | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | |
| 1000.000 | 3550.00 | 6100.00 | 8650.0 | 00 | 11200.00 | 13750.0 | 0 16 | 300.00 | 18850.00 | 21400.00 | 26500.00 MH |
| No. | Mk. | Freq. | Read | | Correct | Meas | | Limit | Ov | er | |
| | | | Leve | | Factor | me | | 15.) | | | |
| | | MHz | dBu | | dB | dBu\ | | dBuV/ı | | | Comment |
| 1 | | 7386.000 | | | -2.09 | 53. | | 74.00 | | | |
| 2 | * | 7386.000 | 43.7 | ′4 | -2.09 | 41. | 65 | 54.00 | -12 | .35 AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

| - | | | | -000 | 44 (ПТО | 2) | | + | | | | 14/0/4 |
|----------|-----------------|----------|--------|------|-------------------|-------|--------|-------------------|-----|---------|----------|------------------|
| | est Mod | | IEEE | | 11n (HT20 2MHz |)) | | Test [Polariz | | | | 21/3/4 zontal |
| res | t Frequ Temp | ency | | | 21VIHZ D°C | | | Polariz Hur | | 1 | | 2011ai 0% |
| 130.0 dB | nA∖w nA∖w | | | ۷. | <i>.</i> | | | i iui | 11. | | , | 0 70 |
| | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 00 | | | 1 | | | | | | | | | |
| 50 | | | X X | | | | | | | | | |
| 40 | | | 2 X | | | | | | | | | |
| | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | |
| 1000.00 | 3550.00 | 6100.00 | 8650. | .00 | 11200.00 | 13750 | .00 1 | 6300.00 | 188 | 50.00 2 | 21400.00 | 26500.00 MHz |
| No. | Mk. | Freq. | Read | | Correct | | asure- | Lim | it | Over | | |
| | | N 41 1 | Lev | | Factor | | nent | ın ' | 11 | ID. | Datasi | 0 |
| 4 | | MHz | dBu | | dB | | uV/m | dBu\ | | dB | Detector | Comment |
| 1 | * | 7386.000 | | | -2.09 | | 1.15 | 74.0 | | -22.85 | | |
| 2 | | 7386.000 | 42. | oδ | -2.09 | 4(| 0.59 | 54.0 | JU | -13.41 | l AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



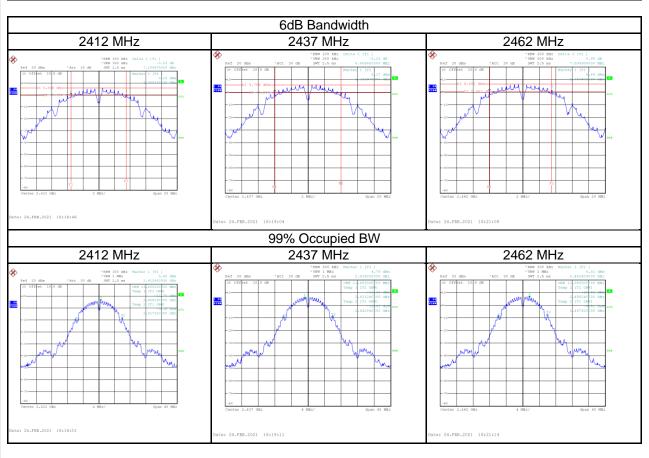
| 3LL | | Report No.: BTL-FCCP-3-2101T110 |
|-----|------------|---------------------------------|
| | | · |
| | APPENDIX D | BANDWIDTH |
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Test Mode IEEE 802.11b

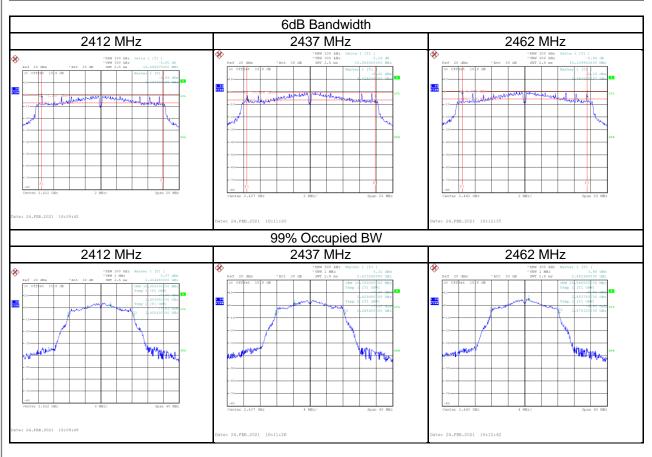
| Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Minimum 6 dB Bandwidth Limit (kHz) | Result |
|-------------------------|-------------------------|-------------------------------|--|--------|
| 2412 | 7.11 | 11.68 | ≥ 500 | Pass |
| 2437 | 8.07 | 11.60 | ≥ 500 | Pass |
| 2462 | 7.60 | 11.68 | ≥ 500 | Pass |





Test Mode IEEE 802.11g

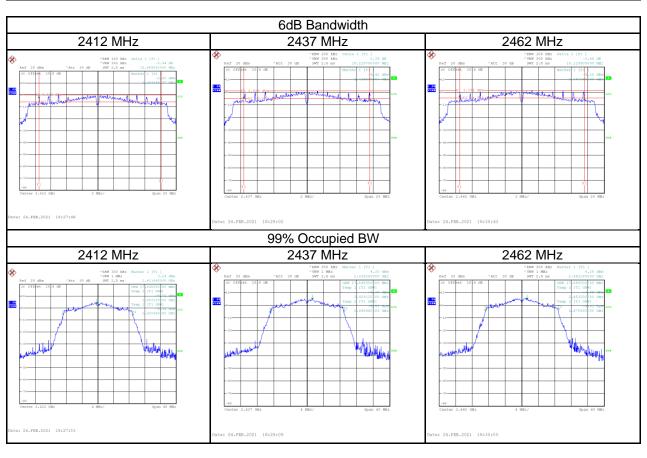
| Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Minimum 6 dB Bandwidth Limit (kHz) | Result |
|-------------------------|-------------------------|-------------------------------|--|--------|
| 2412 | 15.47 | 16.80 | ≥ 500 | Pass |
| 2437 | 15.55 | 16.72 | ≥ 500 | Pass |
| 2462 | 15.14 | 16.56 | ≥ 500 | Pass |





| Test Mode | IEEE 802.11n (HT20) |
|-----------|---------------------|
|-----------|---------------------|

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Minimum 6 dB Bandwidth Limit (kHz) | Result |
|-------------------------|-------------------------|-------------------------------|--|--------|
| 2412 | 15.67 | 17.84 | ≥ 500 | Pass |
| 2437 | 15.23 | 17.84 | ≥ 500 | Pass |
| 2462 | 15.13 | 17.68 | ≥ 500 | Pass |







| APPENDIX E | OUTPUT POWER |
|------------|--------------|
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| Test Mode IEEE 802.11b | Tested Date | 2021/2/24 |
|------------------------|-------------|-----------|
|------------------------|-------------|-----------|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Limit (dBm) | Limit (W) | Result |
|--------------------|-----------------------|---------------------|----------------|--------------|----------|
| 2412 | 17.17 | 0.0521 | 30.00 | 1.0000 | Complies |
| 2437 | 17.70 | 0.0589 | 30.00 | 1.0000 | Complies |
| 2462 | 17.89 | 0.0615 | 30.00 | 1.0000 | Complies |

| | IEEE 000 44 | T | 0004/0/04 |
|-----------|--------------|-------------|-----------|
| Test Mode | IEEE 802.11g | Tested Date | 2021/2/24 |
| | | | |

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Limit (dBm) | Limit (W) | Result |
|--------------------|-----------------------|---------------------|----------------|--------------|----------|
| 2412 | 20.91 | 0.1233 | 30.00 | 1.0000 | Complies |
| 2437 | 21.47 | 0.1403 | 30.00 | 1.0000 | Complies |
| 2462 | 21.99 | 0.1581 | 30.00 | 1.0000 | Complies |

| Frequency | Conducted Power | Conducted Power (W) | Limit | Limit | Result |
|-----------|-----------------|---------------------|-------|--------|----------|
| (MHz) | (dBm) | | (dBm) | (W) | |
| 2412 | 21.57 | 0.1435 | 30.00 | 1.0000 | Complies |
| 2437 | 22.05 | 0.1603 | 30.00 | 1.0000 | Complies |
| 2462 | 22.42 | 0.1746 | 30.00 | 1.0000 | Complies |

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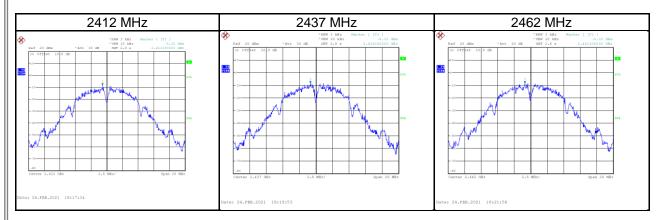
| APPENDIX F | POWER SPECTRAL DENSITY | | |
|------------|------------------------|--|--|
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Test Mode IEEE 802.11b

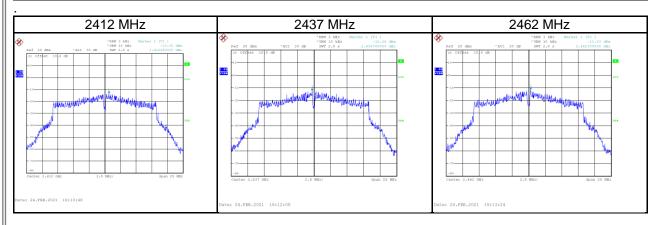
| Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|-------------------------|--------------------------------------|-----------------------------|--------|
| 2412 | -8.22 | 8.00 | Pass |
| 2437 | -8.33 | 8.00 | Pass |
| 2462 | -8.30 | 8.00 | Pass |





| | Test Mode | IEEE 802.11g |
|--|-----------|--------------|
|--|-----------|--------------|

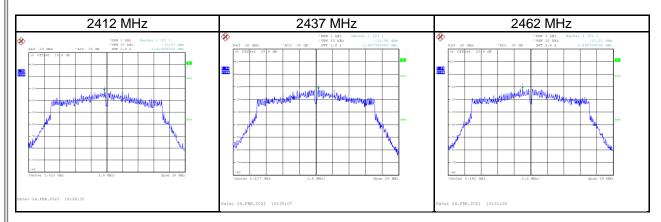
| Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|-------------------------|--------------------------------------|-----------------------------|--------|
| 2412 | -13.32 | 8.00 | Pass |
| 2437 | -12.26 | 8.00 | Pass |
| 2462 | -11.03 | 8.00 | Pass |





| Test Mode | IEEE 802.11n (HT20) |
|-----------|---------------------|
|-----------|---------------------|

| Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|-------------------------|--------------------------------------|-----------------------------|--------|
| 2412 | -11.93 | 8.00 | Pass |
| 2437 | -11.95 | 8.00 | Pass |
| 2462 | -11.01 | 8.00 | Pass |





| APPENDIX G | ANTENNA CONDUCTED SPURIOUS EMISSIONS |
|------------|--------------------------------------|
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